3201: shaft
3201: Shaft Accuracy code: G) Altitude 412m Depth 4m
Area position
Updated 19th September 2019
A rift, about 4 m deep, with a possible further drop. It could not be found in the further drop. It could not be found in the summer 2019, probably due to excessive rubbish in it. The farmped ubbish in it

Reference: anon., 2009a (Easter logbook); anon., 2019d (summer logbook)
Entrance pictures: yes

```
taile
Line Survey:
```

Line Survey:
Survex file :
x

3202: shaft
Secadura 30T 4546664800823 (Datum: ETRS89. Accuracy code: G) Altitude 408 m
Area position

Updated 19th September 2019
A shakehole full of drops which needs the vegetation clearing. Nothing was found when the shakehole was found in August 2019

Reference: anon., 2009a (Easter logbook); anon., Reference: anon., 2009a
2019d (summer logbook) Entrance pictures: yes Underground pictures Video:


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\begin{aligned}
& \text { Detailed Sury } \\
& \text { Line Survev }
\end{aligned}
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\begin{aligned}
& \text { Line Survey: } \\
& \text { On area surve }
\end{aligned}
$$

$$
\begin{aligned}
& \text { On area surve } \\
& \text { Survex file : }
\end{aligned}
$$

X
3203: sink
Fresnedo 30T 4546774801084 (Datum: ETRS89 Accuracy code: G) Altitude 402m Area position

## A sink.

Reference: anon., 2009a (Easter logbook) Entrance pictures: yes Underground pictures Video.

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Detailed
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Line Survey
On area surve

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\begin{aligned}
& \text { On area surv } \\
& \text { Survex file : }
\end{aligned}
$$

X
3204: sink
Fresnedo 30T 4546764801153 (Datum: ETRS89. Accuracy code: G) Altitude 387 m Area position

## A sink.

Reference: anon., 2009a (Easter logbook) Entrance picture Underground pictures Video :
Detailed Survey Line Survey Survex file
Sur

X
3205: shaft
Campo la Cruz 30T 4552574801353 (Datum ETRS89. Accuracy code: G) Altitude 413m Depth 7 m Depth 7 m
Area position

Updated 19th September 2019
A 10m diameter, rock-walled depression with a scramble down at one side to about 7m depth. Unexplored. In August 2019, caves "searched the entirety to no avail". Reference: anon., 2009a (Easter logbook); anon., 2019d (summer logbook Underground pictures

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Video
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Detailed
Litailed Surve
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Line Survey On area survey : Survex file

X
3206: shaft Campo la Cruz 30T 4552734801381 (Datum

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2022

## Area positio

Updated 19th September 2019
An undescended shaft
When visited in 2019, the explorers stated
that it was "not a shaft" and searched the
full area of trees to find only blind
full area of t
Reference: anon., 2009a (Easter logbook); anon.
2019d (summer logbook)
Entrance pictures: yes
Entrance pictures: yes
Video
Detailed Survey
Line Surve
On area sur
On area sur
Survex file

## 3207: shaft

## 25272 480139 (Datum:

 ETRS89. Accuracy code: G) Altitude 412 m ETRS89. AcculArea position

An undescended shaft
Reference: anon., 2009a (Easter logbook) Entrance pictures: Underground pictures
Video :
Detailed Survey
Detailed Sur
Line Survey
Line Survey
On area sur
Survex file
Surv
3208: shaf
Campo la Cruz 30T 4552574801396 (Datum:
ETRS89. Accuracy code: G) Altitude 413 m
Area position
An undescended shaft
Reference: anon., 2009a (Easter logbook)
Reference: anon., 2009
Entrance pictures: yes
Untrance pictures: yes
Underground pictures
Video :
Detailed Survey
Line Survey
On area survey
Survex file

3209: cave
Campo la Cruz 30T 4553884801329 (Datum: ETRS89. Accuracy code: A) Altitude 389 m Length 5 m Area position

Updated 29th April 2012
A cave in a scar below an old track. A short slope drops 1.5 m to a junction. To the left slope drops 1.5 m to a junction. To the left a skylight covered by a big slab and to the right the rift narrows to where it has bee blocked by a few rocks. Beyond it widens again and goes around a corner.
The site was enlarged and explored to a possible dig. The initial squeeze requires capping.

Reference: anon., 2009a (Easter logbook); anon 2012b (Easter logbook)
Entrance pictures: ye
Underground pictures : ye
Video : Easter 2012 or view on YouTube (Chris

```
Binding):
tailed Su
```

Line Survey
On area su
Survex file

3210: shaf
Ozana 3014533944794214 (Datum: ETRS89 Accuracy code: G) Altitude 374 m Length 4 m Depth 4 m Area position

A 2 m diameter hole which is 4 m deep and choked

Reference: anon., 2009a (Easter logbook) Entrance pictures

```
Underground picture
```

Video
Detailed Survey
Line Survey
On area survey
Survex file

3211: shaf
Ozana 30 T 4536094794143 (Datum: ETRS89. Ozana 30 T 4536094794143 (Datı
Accuracy code: G) Altitude 412 m Length 11 m Depth 11 m Area position

A large rift entrance which is either a 3 m or 15 m free climb. (Two accounts in the logbook.)

```
Undergro
Detailed Survey
Line Survey
On area survey.
```

Survex file :
X
3212: cave
Ozana 30T 4535544794175 (Datum: ETRS89
Ozana 30 T 4535544794175 (Datu
Accuracy code: G) Altitude 403 m
Length 5 m
Area osstion

A very tight opening in a cliff face with some phreatic development. It becomes too tight with no draught. (Length is a guess.)

```
Reference: anon., 2009a (Easter logbook)
Entrance pictures
```

Underground pictures
Underground pictu
Video :
Detailed Surve
Line Survey :
On area surve
On area sur
Survex file
x

3213: cave
San Antonio 30T 4454874801694 (Datum:
ETRS89. Accuracy code: G) Altitude 69 m ETRS89. Accuracy code: G) Altitude 69 m
Length 3 m Length 3 m
Area position
Area position
Updated 5th June 2019
A 3 m long, draughtless cave in the rock face, in the same scar as site 4973. The positions of each are unclear and each needs checking.

Reference: anon., 2009a (Easter logbook); anon., Reference: anon.,
2019b (Easter logbook) Entrance pictures Underground pictures Video: Detailed Survey Line Survey On area surv
Survex file :

X
3214: cave
San Antonio 30T 4456644801588 (Datum: San Antonio 30T 4456644801588 (Datum
ETRS89. Accuracy code: G) Altitude 73 m Length 15 m Depth 4 m Area position

Updated 30th October 2010; 18th April 2016
At the edge of a field - which may have a bull, a short climb down a cleft in the cliff face leads to a downstream passage which sumps after 4 m . This was found dried up in sumps after 4 m . This was found dried up in
the summer of 2010 but, after 7 or 8 m , the the summer of 2010 but, after 7 or 8 m , the
meandering passage becomes smaller and meandering passage becomes smaller and
only possibly passable by a "small person". only possibly passable by a "small per
In November 2015, the passage was In November 2015, the passage was
followed to a sharp left hand bend which followed to a sharp left hand bend which
would require awkward capping to allow a would require awkward capping to allow
small person to progress. The site has a slight outward draught.

Reference: anon., 2009a (Easter logbook); anon., Reference: anon., 2009a (Easter logbook); anon.,
2010c (summer logbook); Corrin Juan, 2011; anon. 2016b (Easter logbook) (November 2015 logbook account pasted here)
Entrance pictures: yes
Underground pictures

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Video:
```

Detailed Survey :
Detailed Sur
Line Survey
On area surve
Survex file :
x

3215: dig
Camposdelante 30 T 4467174798062 (Datum:
ETRS89. Accuracy code: A) Altitude 131 m ETRS89. Accuracy code: A) Altitude 131 m
Length 122 m Depth 7 m Length 122 m Depth 7 m

Updated 7th, 18th November 2009; 18th May, 16th October, 1st December 201 14th, 26th January, 29th April, 29th November 2012; 6th October 2013; 23rd May, 26th September 2014; 7th January 2018

An old cold store above and on the other side of the road from site 1976, the "duck sink". The feature is a hading rift about 0.8 m wide blocked with boulders but draughting.
It has been dug out on a number of occasions but underpinning boulders holding up the back wall of the store is now required. This is a good prospect but needs a bit of engineering work.

At Easter 2011, a low bedding was entered At Easter 2011, a low bedding was ent
at the base of an 8 m deep climb down at the base of an 8 m deep climb down
through boulders. The base is at about the through boulders. The base is at about the
level of the river and there may be further level of the river ar
digging prospects.

More excavation occurred in the summer, 2011 and, in the autumn, the sandy dig was | MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 |
| ---: |
| Volume $5-$ page 3 |

excavated to a three-way junction with
room to start excavatina the riaht hand branch (at 250 degrees) following the branch (at 250 degrees) following the
draught. Further excavations were carried out in December 2011 to a point where it needs "a small caver" to look at prospects for the next section.

At Easter 2012, further excavation removed At Easter 2012, further excavation remove
a large boulder and progressed about 1 m a large boulder and progressed about 1 r
along the crawl. In the autumn, the dig along the crawl. In the autumn, the dig
marked on the survey at 250 degree was marked on 1 m at which point a large sandstone boulder in the floor stopped progress.

In the summer 2013, the very low passage met an "upward boulder choke" which effectively stopped digging in the right hand branch. Another dig entered a small

A depression has this site on the northeast side and Torca de Piedrashitas, site 3218. A 6 m deep shaft choked with mud and with no draught.
Video :
Line Survey
On area survey
On area sur
Survex file

3218: Piedrashitas, Torca de

## Secadura 30T 4540904800046 (Datum: ETRS89

 Accuracy code: G) Altitude 268 m

An excavated and stabilised shaft in the Piedrashitas (standing stones) area. One explorer had his foot squashed (luckily only bruised) during the inital excavations. The site lies close to the end of Gour Inlet in Cueva Hoyuca and may also provide a link to passages in Cueva Suviejo. Digging continues.

# Reference: 

 Reference:Juan, 2010
Entrance pictures: yes
Underground pictures:
Video : wmv file (13Mb)
Detailed Survey : $1: 10$
Detailed Survey : 1:100 pdf
Line Survey
On area survey :
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic declin
December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.) MATIENZO UNDERGROUND site descripioions (printed 1902/2024) Volume 5 - page 4

An excavated sink which currently ends in clay and boulders. Water can be heard dripping and rocks falling.

Reference: anon., 2009a (Easter logbook); Corrin Reference: Entrance pictures: yes Underground pictures Video:
 Line Survey On area survey : Survex file

X
3220: sink
3220: Sink
Secadura 30T 4540824799959 (Datum: ETRS89. Accuracy code
Area position

```
A sink in a shingle pool which overflows to
```

A sink in
site 3219

Reference: anon., 2009a (Easter logbook); Corrin Reference:
Juan, 2010 Entrance pictures: yes Entrance pictures: yes Video:

```
Detailed S
```

Line Survey

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\begin{aligned}
& \text { On area survey: } \\
& \text { Gurex file. }
\end{aligned}
$$

Survex file :

X
3221: sink
Secadura 30T 4538734800212 (Datum: ETRS89. Accuracy code: G) Altitude 350 m
Area position
A rock-filled hole with water sinking.
Reference: anon., 2009a (Easter logbook); Corrin Juan, 2010 Entrance pictures: yes Underground pictures Video: Detailed Survey
Line Survey: On area surve Survex file :
X
3222: cave
Riaño 30T 4511334800764 (Datum: ETRS89. Accuracy code: G) Altitude 115 Length included in Cueva de la Espada Depth 6 m
Area position Area position

Updated 7th November 2009; 30th October 2010; 16th October 2011; 29th April, 23rd May 2012

A draughting, excavated hole at the left end of a scar by a tall tree near site 1801. Just inside is a 6 m pitch originally blocked at the top with bed rock. The cave at the base of the pitch links at a duck through to upstream Cueva de Entrambasaguas (Cueva de la Espada site 103).

In the summer 2010, an upstream route was found to be too dangerous through a was found to be too dangerous through
draughting boulder choke along with a draughting boulder choke a
sandy ramp up to one side.

In 2011, surveying upstream in Cueva de la Espada probably entered the passage from 3222. See sketch.

At Easter 2012, the site was surveyed through to Cueva de la Espada.
[A previous grid reference before a surface survey a ©A previous grid reference before a surface surv
Easter 2012 was 30T 4512344800983 Altitude
$118 \mathrm{~m} ;$ ETRS89: 30T 451132 4800774]

Reference: anon., 2009a (Easter logbook); anon., 2009c (summer logbook); anon., 2010c (summer ogbook); Corrin Juan, 2011; anon., 2011d (summ logbook); ano
Juan, $2013 a$
Entrance pictures: yes
Entrance pictures: yes
Underground pictures: yes Video : wmv file ( 6 Mb )
Detailed Survey : sketch of 3222 and connection with Espada: On Espada survey, easter 2012
ine Survey : Line Survey On area survey :
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic dec
December 2013 to align with Eur79 grid.)
x
3223: shaft
Riaño 30T 4512794800675 (Datum: ETRS89.
Accuracy code: G) Altitude 128 m
Depth 2m
Area position
Updated 29th April 2012; $4^{\text {th }}$ May 2016
A shaft in clints with holes down. Some excavation took place at Easter 2012.

Reference: anon., 2009a (Easter logbook); anon.
2012b (Easter logbook); anon., 2016b (Easter

3225: cave
$\qquad$

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\text { ño 30T } 451347
$$

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\begin{aligned}
& \text { Riaño } 30 \mathrm{~T} 4513474800594 \text { (Datum: ETRS89. } \\
& \text { Accuracy code: G) Altitude } 130 \mathrm{~m}
\end{aligned}
$$

$$
\begin{aligned}
& \text { Accuracy code: G) Altitude 130m } \\
& \text { Lenath } 4 \mathrm{~m} \text { Denth ?m }
\end{aligned}
$$

$$
\text { Length } 4 \mathrm{~m} \text { Depth } 2 \mathrm{~m}
$$

$$
\begin{aligned}
& \text { Length } 4 \mathrm{~m} \mathbf{D G} \\
& \text { Area position }
\end{aligned}
$$

$$
\text { Updated 7th November } 2009
$$

This site is in a small rock face on the uphill side of the depression between the road and side of the depression between the roa
the Cueva Riaño resurgence. Soil was the Cueva Riaño resurgence. Soil was
removed to access a 2 m drop. The only way removed to access a 2 m drop. The only wa
on is down an over-tight, steeply sloping
tube. tube.
Reference: anon., 2009a (Easter logbook); anon. Reference: anon., 2009a
2009c (summer logbook) Entrance pictures: yes
Underground pictures :
Video :
Detailed Survey
Line Survey:
On area survey
On area sur
Survex file

## 3226: cave

Riaño 30T 451126 4800784 (Datum: ETRS89. Accuracy code: A) Altitude 125 m Length 35 m Depth 7 m

## Area position

Updated 7th November 2009; 31st October 2010

Up to the left of site 3222 is a small tube with several rocks blocking it. Beyond is a drop and the right wall ends with a big space beyond, good echo and a strong draught. At summer 2009, this turned out to be 9 m of rift passage which became too solution tubes with no way on.

To the right of the initial squeeze a 5.5 m pitch leads to a choke with a possible tight way on. Halfway down the pitch is a connection to a slot off to the right of the entrance passage.

Reference: anon., 2009a (Easter logbook); anon. 2009c (summer logbook); anon., 2010c (summer logbook); Corrin Juan, 2011
Entrance pictures: ye
Underground pictures
Video:
Detailed Survey : sketch (2010)
Line Survey :
On area survey
Survex file

## 3227: dig

Riaño 30 T 4511194800785 (Datum: ETRS89. Accuracy code: G) Altitude 128 m
Area position
Video:
Detailed Survey
Line Survey :
On area survey
Survex file
3228: dig
Riaño 30T 451110 4800790 (Datum: ETRS89
Riaño 30 T 4511104800790 (Dat
Accuracy code: G) Altitude 134 m
Accuracy code

```
Reference: anon.,
Video:
Detailed Survey
Detailed Su
Line Survey:
On area surve
X
3229: shaft
El Naso 30T 451208 4796507 (Datum: ETRS89,
Accuracy code: G) Altitude 484m
Accuracy c
Area position
```

Updated 19th May 2022
An undescended shaft under a rock in a
shakehole. Probably more than 5 m deep but requiring extensive excavations to progress requir

Reference: anon., 2009a (Easter logbook); anon., 2011b (Easter logbook); anon., 2022b (Easter 2011b (Easter logbook); anon., 2022b (Easter Entrance picture: April 2022 Underground pictures : 2011 Video:

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Detailed Sur
Line Survey :
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On area survey
On area surve
Survex file
X
3230: shaft
Caburrao 30T 4570544795741 (Datum: ETRS89
Caburrao 30T 4570544795741 (D
Accuracy code: G) Altitude 253m
Arca position

This shaft was explored at Easter 2007 and lies south of site 2693. (More information from Dan Hibberts?)

```
Reference: anon., 2009a (Easter logbook)
Entrance pictures:
Underground pictur
Video:
Detailed Survey
On Survey:
Survex file :
X
3231: cave
Cubija 30T 4500894796928 (Datum: ETRS89.
Accuracy code: G) Altitude 283m
```

An open cave up valley from Cueva Morenuca. A $1.5 \times 2 \mathrm{~m}$ high entrance descends quickly to a continuing muddy crawl. The GPS is in the wrong position relative to Morenuca.

Reference: anon., 2009a (Easter logbook)
Reference: anon., 2009a
Entrance pictures: yes
Underground pictures :
Detailed Surve
Line Survey :
Line Survey :
On area survey
Survex file :
x

3232: Ruchano, Cueva del (bottom entrance to Cueva $\frac{\text { Espada) }}{\text { EI Suto } 30 \mathrm{~T}}$ El Suto 30T 4506934800976 (Datum: ETRS89. Accuracy code: G) Altitude 105 m
Length included in site 0103 along with site 3222 Length includ
Area position

Updated 23rd May 2011; 14th September 2013

The bottom entrance to Cueva Espada, site 103.

All other information, including about the Bronze Age sword, is found on that site description. This bottom entrance is signposted as Cueva de la Espada. Reference: anon., 2009a (Easter logbook); anon.,
2011b (Easter logbook); ; anon., 2012 b (Easter logbook)
Entrance pictures:
Underground pictures Video:
Detailed Survey
Line Survey
On area survey :
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic dec
December 2013 to align with Eur79 grid.)
x
3233: cave
Riaño 30T 4518414799811 (Datum: ETRS89. Accuracy code: G) Altitude 169 m
Area position Area position

Approximately 30 m east of Cueva Hoyuca entrance, this is a tight sideways rift entrance (with small shaft entry above). It is possible to see about 5 m and there are holes in the floor dropping further.

Reference: anon., 200
Entrance pictures: ye
Underground pictures
Video

## Original entrance and the eastern

## passages

number of bee hives in the erance fiel and the bees were showing "some interest" in cavers walking to the entrance. It may be that the hives will be moved to a more productive area for the summer months The hives were present in greater numbers at Easter 2019. On 21st June 2019, one caver walking back up the field suffered 6 bee stings. Bee activity continues through autumn 202
March 2023 A large flat area of gravel with foundations / footings has been laid at the top of the entrance field. This is for a honey processing plant. These works (Picture here from Andy Quin.) will have an effect on underground drainage and will possibly curtail the scientific work, both current and planned (see below)
batch 09-01 The normally draughtin
entrance is a short crawl off the side at the back of a dressed-stone-walled sheep enclosure. This leads to a tight bend to the right and enlarging passage to a small right and enlarging passage to a small leads to a squeeze, crawl then stoop to eads to a squeeze, crawl then stoop to wide passage beyond. A seasonal stream enters from a walking-size inlet on the righ and ends at a 1.5 m high column on smal gours in High Hopes. A passage passes over into a short passage, No High been scale into a short passage, No High Hopes, to choked chamber (batch 09-02) and the northern side is blind.
On the northeast side of High Hopes, a low stoop and crawl through a loose hole enters a walking-size phreatic tube to an excavated U-tube with a longer uphill crawl on the other side (batch 09-03) that breaks out into the Left Ladders Series (batches 0905 and 09-06). Walking-size phreatic passage heads south to a junction MATIENZO UNDERGROUND site descripions (rinted 1902/2024) Volume 5 - page 8

To the south, large passage with some nice formations and pits eventually finishes in ta
phreatic domes. (More description needed). phreatic domes. (More description ne
At Easter 2013, the small continuing passage to the northeast off station 09 06.1 (at the southern extremity) was examined. It needs capping/snapping for at examined. It needs capping/snapping
least 5 meters and there is very little draught. Forty metres to the NNW
drent, draught. Forty metres to the NNW northwest, a small passage which heads northwest was dug out in dry sand for 2 m
but it needs a lot more digging. There was but it needs a lot n
very little draught.
To the east, mixed going leads to a traverse over an 11 m pitch and further stoops and crawls to a small chamber where, to the right a pitch is reached and straight on, a sandy dig (Blood, Sweat \& Tears) has been pushed to a stooping passage and a rift, initially blocked with stal but pushed through at Easter 2010 for 20 m or so to a squeeze and a dig. (batch 10-04). This was partly pushed in February 2012:
The floor is sandy and easy to dig. A hammer and chisel is useful for thin calcite in the floor. It is possible to see about 2 meters into passage ( 20 cm high and 1 m wide) with a slight draught towards the excavator. It is a flat out crawl with goo potential. More digging occurred in the summer, 2012, and it is now possible to see about 6 m along pass

The 11 m , Blood, Sweat \& Tears pitch at the The 11 m , Blood, Sweat \& Tears pitch at the end of a small passage, was descended ove
the Matienzo November fiesta weekend and the Matienzo November fiesta weekend
a major segment of passage explored. a major segment of passage explored.
Batch 09-09-14 has a length of 237 m . Th Batch 09-09-14 has a length of 237 m . Th
current ends include avens and a low duck at the north west, upstream end. The weather was extremely wet during the first exploration, so neither upstream or
downstream ends could be followed. The downstream end is close to the upstream as the passage turns back on itself.
Downstream was inspected during a dry spell in the summer 2010. A 20 cm diamete hole has a solid rock floor. Stones dropped into water beyond but it was impossible to see if the passage is large or small and whether it is worthwhile trying to enlarge the route.

At Easter 2016, a route was pushed througr a crawl to the northeast off station 3234-09 14.blood-and-t-pitch4.0. The route heads down under Bird Wing Chamber as follows: After the crawl a p1 and p6 requiring a 15 m rope and 1 hanger, also using a natural belay;
A rising and falling passage to a p6 with a narrow top (underneath the p8 from Bird Wing Chamber). 10 m rope and 3 hangers + 1 deviation;
A short crawl to the 3rd pitch, a p6 that requires a 9 m rope and 3 hangers. The tops of the first two pitches could be enlarged and the pitches were wet at Easter 2016.
he final pitch drops into Mitre Passage. This heads ESE and is 2 m wide and 4 m high surveyed as part of batch $16-01,183 \mathrm{~m}$ climb to a possible continuation. There are limb to a possible continuation. There are glimpes of an accessible higher level passage in a number of places. There are also side passages to be checked and a drop at the western end of Mitre Passage. The 2017, major extensions from Mitre Passage (batch 3234-17-03) including the route to the second, SubPhone Entrance and Mulu
Manners are described next. Manners are described next.

* Two squeezes at the entrance were enlarged in October 2019 and a draughting passage between them was dug to where it became too tight.
Over the drop at the end of the traverse, n eyehole on the left drops 4 m in a rift which was also connected back to the main route through an excavated crawl.
(September 2021)

Mitre Passage Extensions, Easter 2017 through the summer and January/February 2018
Passage description and leads by Torben Redder, Peter Fast, Louise Korsgaard. (Single station numbers are from the batch 3234-17-03 svx file, found on here.). The initial descriptions are heading towards the new, Subphone entrance, as the opening up of that entrance only occurred in the
summer, 2017.
Around Mitre Passage and Upper Mitre
In the middle of Mitre Passage (stn 26) a 2 m climb belayed through a natural eyehole leads to a passage on the NE side. The phreatic passage leads to a 20 cm sandy dig
(stn 39), which will require capping. On the (stn 39), which will require capping. On
SW side a 2 m climb (also belayed on a natural eyehole, leads to a ledge heading NW above Mitre Passage. This higher MATIENZO UNDERGROUND - site descripions (printed 19/02/2022
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passage is called Upper Mitre. The first 6 m
traverse of Upper Mitre can be secured by a traverse of Upper Mitre can be secured by
traverse line (one bolt in each end). Upper Mitre passage has several holes leading down to Mitre Passage, which fits with the down to Mitre Passage, which fits with the
avens marked in Mitre Passage. At the end of Upper Mitre passage there is a possible climb up (S of stn 48). Just after the climb up ( S of stn 48). Just after the
traverse in Upper Mitre passage two traverse in Upper Mitre passage two passages head off south (stn 42). The first passage (stn 50 ) is a crawl that leads back to near the top of the ramp just SW of stn
26. It is seen from there that this ramp does 26. It is seen from there that this ramp does
not continue up further. The other passage not continue up further. The other passage
is a walking size rift, that turns towards SE . is a walking size rift, that turns towards
At stn 59 a draughting crawl leads NE for about 6 m to a 4 m climb up that was explored in February 2018. A small stream comes down the climb. Three bolts were used to gain a space under a bedding roof where soil has been washed out. A climb over the top leads to a p7 which was not dropped, but visual connection made from below. No other ways on were found at the top.
Further on at stn 60, another crawl leads NE - this was not pushed. Further on, a flat out crawl under bedding leads to a $4 \mathrm{~m} \varnothing$ chamber (stn 64), called Boulder Junction, with multiple ways on

Boulder Junction Boulder Junction (stn 64) has a boulder choke roof. There are two place The p10 place. The p10 leads to about 20 m of horizontal passage (a 10 m inlet and a 10 m outlet). Where they join, it is possible to climb up to a rift, but all ways on get too small (the bottom part was not surveyed due to PDA malfunction
Climbing down towards the north in Boulder Junction leads as the first step back to an alcove overlooking the chamber ( $\operatorname{stn} 28$ ) a the SE end of Mitre Passage. Just as that level is entered there is a p13 down to Hidden Crawl (batch 18-05) and just to the N of that a 1.5 m climb down a rift into the chamber (stn 28) at the SE end of Mitre Passage.
Climbing up in Boulder Junction towards the south, just over the P10 shaft (sling put across the shaft, to make the return mor safe) and through a boulder slot leads to a
sate safe) and through a boulder slot leads to a
rocky ramp. Stay to the right to avoid derocky ramp. Stay to the right to avoid de
stabilizing the ramp. The ramp up leads to Ali Chamber, a $50 \times 10 \mathrm{~m}$ and 6 m high chamber with multiple ways on

Ali Chamber to Under Road Chamber Just where Ali Chamber is entered (in th middle, along the NW side, stn 69) climb into the rift and around the corner to the right. Climb up on the ledge and crawl to the right, to reach the passage (stn 87) at the edge of Sandy Chamber. (At station 1703.85, it is possible to squeeze in. Straigh ahead there is no way on, but it is possible to squeeze down under the bedding, but there is still no way on.)
Sandy Chamber has 3 ways on: towards the a c4 up boulders back in Ali Chamber: towards the southwest, a climb up into a sandy passage, about 20 m (surveyed as batch 18-01b, no way on found); the Rocky Floor passage (stn 87) leads to a squeeze, that was dug out for comfort. Just before (stn 92) leads to a possible way on towards the east (may have a loose roof) and a climb up in a tube/rift towards the west Past the squeeze, the floor is sandy with mud tiles.
At stn 95 the passage turns southwest. At this break down, a possible lead may go off about $2 m$ inside the breakdown and up. This was investigated in February 2018: A crawl leads into a chamber in the horizontal slot 1 m above floor in Side Road. Up in the roof a rift heads east, but it closes totally. At the bottom level there are leads that draught but need snappers / rock removal. (Surveyed as batch $18-06,37 \mathrm{~m}$ ) In Side Road, on the way to Under Road Chamber (stn 97) there are two avens/tubes up which need bolting.

## Under Road Chamber was sub-phone-

 located to just under the road, and the surface team hammering on the road was very loud. Northwest from Under Roa Chamber, a small draughting hole up is reached (stn 106), $\varnothing$ about 30 cm , and 2 m high. Stn 106 was also sub-phone-locatedand digging started from the surface (site 4536). This was opened up as the

SubPhone Entrance in the summer 2017 Around Under Road Chame summer 201 Around Under Road Chamber there ar many small passages that interlink A crawl leads off from stn 120 to a draughting dig (mud). Passage can be seen across the top of the dig after 2 m . This must be close to the surface. We started the digging, but needed a digging tool. Twenty-five metres south of Under Road Chamber is Gypsum Chamber. The smal passages towards the southwest lead to MATIENZO UNDERGROUND site descriptions (printed 19/02/2024) Volume 5 - page 10
places with roots. At stn 134 there is

Leads off Ali Chamber At the southeast side, in the southern part in Ali Chamber (stn 75), a rift down remains blocked after (stn 75 ), a rift down remains blocked after
we tried to remove a 200 kg boulder. If the we tried to remove a 200 kg boulder. If the
upper corner is snapped off the boulder, it upper corner is snapped off the boulder, it
will slide down. It is possible to crawl in the will slide down. It is possible to crawl in
top of the rift, but then rope is needed to top of the rift, but then rope is needed to get 6 m down to a floor. This was explore
the end of January 2018 but found to be the end of January 2018 but found to be
blind with dripping water in the end coming blind with dripping water in the end coming
from a stal section hidden in the wall in Ali from a sta Chamber.
At the northwest side, in the southern part in Ali Chamber, there is a drop ove boulders into Sandy Chamber. At the southeast side in the northern part (stn 77), there is a combined shaft/aven (The Shark). The shaft drops to the known chamber below. From two studs descend about 6 m down to a ledge at a big column. Do not walk on the floor to the north of the ledge, as it looks dangerous when seen fror below (false floor!). About 8 m southeast from where the ledge is reached, the ledge get close to the mud slope below. Two studs have been placed, as this will be the easiest access to the ledge (c5 on rope) from Mitre access to the ledge (c5 on rope) from Passage, until the new entrance around
Under Road Chamber has been established (it has been - site 4536), and access is via (it has been - site 4536), an
Ali Chamber and The Shark.
Ali Chamber and The Shark.
Just opposite The Shark, a bolt climb ( 3
Just opposite The Shark, a bolt climb ( 3
bolts, explored February 2018) leads to the start of a passage, but it is filled with sand to the roof.

Way on past The Shark Possible ways on towards the southwest on the ledge. Continue flat out under the bedding (stn 146) towards southeast, and up between boulders. From there (stn 149) there are 4 ways on. The impressive Mulu Manners, an 8 m wide and about 6 m high passage, continues for about 170m towards the southeast. Toward the south there is a way around (stn 1 Further towards the south leads to a grotto Further towards the south leads to a grot
(stn 176) and a way under bedding (stn (stn 176) and a way under beddin
190 ) which has not been pushed. 190) which has not been pushed.
Just to the northwest (stn 179) there is a Just to the northwest (stn 179) there is a
draughting crawl that, in the beginning, is draughting crawl that, in the beginning, is
very well decorated with stal. In places it is flat out crawling. At the current end (stn 189) rock flakes are moved to the sides to make access easier. At the end of January 2018, the flat-out crawl was pushed for 15 m to a point where it is only $20 \times 60 \mathrm{~cm}$ wide, but there is good draught. That point was measured to be 8 m after stn 189. The passage crosses over the north end of Ali Chamber.

Mulu Manners About 20m into Mulc Manners (stn 151) there is a sandy crawl/dig to the south. About 100 m down Mulu Manners, an 8 m handline on natural is needed down a slope. Just past the slop and up, the passage splits for about 30
meters (stn 154-155). The passage towards meters (stn 154-155). The passage towards
the north has a beautiful anastomoses roof. At the end of Mulu Manners the passage goes up and splits at Mulu Junction.

North and south off Mulu Junction Just north of Mulu Junction, under a gypsumcoated roof, there is a loose slope down which was explored in the summer 2017, and is the route to the South Passage (see below). Crawling further E over rubble leads
to two chambers. The southern chamber has to two chambers. The southern chamber ha
a c4? aven in the southern end that needs a c4? aven in the southern end that need: bolts. Just to the right of the c4 aven, a climb up through a slot leads to the area S of Mulu Junction.
To the south, and on the west wall in a 10 m $\varnothing$ chamber, a 2 m climb up enters a $2 \times 3 \mathrm{~m}$ walking size passage. About 4 m in it is possible to make a natural belay with a rope under and around a block. The walking size passage ends at a dripping aven, about 5 m high. It may be possible to find a way up but it requires bolts. The passage continues in a crawl, and opens up again into a chamber with nice straws in the roof. At the end of the chamber there is a dig, about 60 cm wide, widening out. The height is about 20 cm but the floor of sand/small rocks is easy to dig. The strongly draughting route continues low for about 3 m to where you cannot see further. The end is heading for site 4188, Shrewd Find at a similar altitude and the passage ends are probably no more than 30 m apart. (Surveyed as batch $18-01 \mathrm{c}, 55.0 \mathrm{~m}$.)
Back in the $10 \mathrm{~m} \varnothing$ chamber, to the north it is possible to climb down between boulders but there is no way on. To the east, there is first a passage heading south to a p25 (stn 163), which could bring the cave down to the lower Riaño Cave level. In
before the drill battery failed. A later trip
found the drop impassable due to the
amount of water cascading down. (This is
likely to be due to water sinking in the wet weather in the valley directly above.) In April 2018, the pitch was dropped and chokes on a sandy floor. A window on the SE is more roomy. An unexplored traverse can lead into a rift on the NW wall. Finally, there is a passage heading east into a rift where water runs down. This may continue up where the water comes from.

From Mulu Junction to South Passage Up to the left at Mulu Junction, a hole in the floor is the top of a loose scree slope - a 6 r slide down with a 12 m handline replaced January 2018. (Batch 17-04). A walking size sandy-floored passage leads off. The route meanders with occasional large boulders and slopes to negotiate. Down to the left there is a 15 m pitch which has been dropped in a phreatic tube to a muddy floor and no way on. A slope up enters Chamber of Good Manners. There are crawls in th
north end and a rift up in the south end becomes too tight. This crawl goes towards in the southern end can be bridged into with couple of bolts as protection. A hole in the ast wall is the way on and where batch 3234-17-05 (600m) starts - ending to th north at the Ski Slope and to ting to $t$ South Passage

A roped c2 is the entry to the draughting tube on the east side. A batman rope up
loose gravel and down on the other side loose gravel and down on the other side
leads to easy and big horisontal passage leads to easy and big horisontal passa
with no need for SRT to progress the absolutely dry passages all the way to South Passage. Above the Batman down slope, a roof tube ( $\varnothing 1 \mathrm{~m}$ ) has been climbed for 6 m
( 2 bolts) to a horizontal level that went for 3 m until filled with diggable size rock/flakes. It was possible to see 3 m further, but the space was only 10 cm high. In the first large chamber after Batman, the climb dow leads to a flat sandy/rock floor under heading $N$ was investigated in April 2019 and the ascending rift closed in after abou 10 m . There are very few formations. On the way towards The Ski Slope there are canyons with sand and boulder strewn floor and a big chamber with possible ways on to the north and down, eg batch 18-07 slopes down from station 17-05.27 and leads t 28 m of horizontal passage. The Sk Slope leads to some passages that all seem to end in the same boulder choke, where it is wet. The top of this boulder choke is at a high altitude to the passage choke in the high level passage, Dingle's Delight in Cueva
de Riaño, and 33 m further to the NNE. This choke at the top of the Monster Ramp may be pushed over the top via the draughting aven at stn 17-05.47 (about an 8 m climb). There is also a passage on a cracked mud floor that gets too small. Batch 18-08 description to go here
At the start of South Passage you have to balance on a ridge of break down. At stn 17 . 05.64 exploration was left in the summer 2017 with more ways on
Near the end of South Passage, near Don't Stop Now, an 8 -bolt climb up from statior
$3234-18-02.21$ was surveyed as batch 2201 , extending the cave by 31 m , height 20 m Canny Passage is entered down a rope on the east side of South Passage. A c-2 enters walking-sized passage past a roof fall to hole in the wall on the right. A 4 m roped climb down is soon met and a large chamber that funnels in from 2 sides. At the top, on the north side, is a possible mud dig. A hole in the centre enters a very tight, draughting route down to the top of the Torno Inlet in Cueva de Riaño (see video). A white marke as been left at the top of the inlet whic should be visible from below. The Canny Passage was surveyed as batch 3234-19-02. Length 194m.

Canny Passage was extended (but not surveyed) in April 2022. Both small extensions occurred beyond the very tight
squeeze. The first, opposite the route to the Tippex marker above the Riaño stream, was entered after some rocks clearance. A traverse leads to small tube which becomes too tight after $15 / 20 \mathrm{~m}$. The second
prospect is below the tight section where a dig needs more work to reach a corner where it continues much bigger. A sketch of these extensions from the logbook and is included on the "After April 2022" surve

B Chamber and beyond (see survey
Description edited from logbook entries by Torben Redder.)
Exploration down South Passage continued in January / February 2018. The left hand route continues low (flat out) for about 10 n then opens up into a 15 m high rift/chamber (B Chamber)
There are multiple small ways on from the MATIENZO UNDERGROUND site descritions (rinted 1902(2024 Volume 5 - page 12
chamber and it is quite complex. Climbing a
$\mathrm{C}+2$ on the northwest side leads to a way in $\mathrm{C}+2$ on the northwest side leads to a way in
behind the wall, where it is possible to get up left to a point looking down into $B$ Chamber. A rift heads south and split Towards the SE it gets too narrow. Towards the NW (New Hope) there is, at stn 18-02.10 a passage with drop down into the top of $B$ Chamber (voice and visual connection). Further up there is an aver from where water continues down the p20? from where water continues down the p20? below. There are loose boulders around the
rim of the shaft. The leads in the southeast rim of the shaft. The leads in the south
of New Hope were investigated in the of New Hope w
summer 2020:

A1-A squeeze into tube is restricted by stal that need big hammer or snapper. There is a draught, but we were there on a day with outside temperature 36 deg C .

B1 - A climb up (c4) was done with two B1 C1 - A squeeze in top of a crack leads to from below, but only from between the boulders above. At the bottom of p4 there may be ways on between boulders. "We did not push it."
The"p20?" turned out to be a p24 when dropped and passages below were explored dropped and passages below we.
(Consolidated as batch 19-02.) An overnigh camp was established just before $B$
camp was established just before $B$
Chamber on a sandy area. The pitch was rigged with a 10 m rope for a traverse line rigged with a 10 m rope for a traverse line
from a natural to a Y -hang; from the Y from a natural to a Y-hang; from the Yhang, a 24 m rope. There is water spray in
the shaft which responds very quickly to the the shaft which responds very quickly to
weather. The rim of the shaft has loose weather. TI
boulders.
At the bottom of the p24, a tube goes nortr and slopes down to a 2 m climb down to a stream, the Getting There Series. Going south at the bottom of p24, and then turning right and crawling down in a sloping passage leads to a stream.
The stream can be followed down two climbs to a hands-and-knees crawl. Just before the end of the main passage to the right, a low wet and muddy crawl winds towards the north for about $10-15 \mathrm{~m}$ where there is nowhere to turn around. At the end, the height is about 20 cm with a rift in the roof. After about 2 m , it seems to get higher again. There is a good draught and water drips can be heard with an echo from the drips can be heard with an echo from the 03 in the summer 2019
The cave was linked to Cueva de Riaño from the Getting There series on 30th July 2019. An excavated squeeze (the connection) on the north of the passage enters the base of an aven (in Riaño) and a further squeeze out into a sandy crawl heading northwest to a climb down into Torno Inlet. Turning right at the crawl also reaches the stream.
At the bottom of p24, heading up the rift, a climb up between boulders (past a mouse skeleton) leads to a well decorated chamber Mouse Chamber. Mouse Chamber can also be reached directly from the p24. Mouse Chamber, northeast end Climb up slope over boulder into a well decorated passage, Column Corridor. Follow Column Corridor to a $2 \times 2 \mathrm{~m}$ window overlooking the higher level above the southwest end of Mouse Chamber. Column Corridor was first entered from there by climbing the vertical c4 (time wasted). Further along Column Corridor, a nice, walking size meander heads south to First Boulder Chamber and Second Boulder Chamber. In Second Boulder Chamber it is ossible to climb down in the floor Mouse Chamber, southeast end: 1) A crawl heading east leads to a p5 with an unpleasant, tight pitch head that drops to a $2 \times 2 \mathrm{~m}$ chamber with no way on.
2) A walking size passage south leads to a crawl along a solid wall with boulders to the left. At the end there is a stal constriction, that will dig with a large
hammer/chisel/crowbar
Mouse Chamber, southwest end:
Climb up 4 m between boulders to reach the top of the choke. From there the window into Column Corridor is seen.
Don't Stop Now. This is back in South Passage where a ramp up behind large boulders leads to a steep sandy ramp down be two ways on (not surveyed yet): one be two ways on (not surveyed yet): one
with a p8 and another possible lead straight whead, from where it is possible to see into the p8 through a rift
Napoleon Passage. (Surveyed as batch Napoleon Passage. (Surveyed as ba
18-09; length 170 m ) A c+4 leads to 18-09; length 170 m ) A c+4 leads to
horizontal passage. A rope has been left as horizontal passage. A rope has been left as
a hand line. About 10 m into the passage, beyond the climb, there are strongly draughting - but too small - holes in the south wall. The 4 m high canyon can be followed in the top, changing to walking size and then crawling before it pops out int
3 m wide passage, Battleship Down! Towards the E it chokes; a passage rising to MATIENZO UNDERGROUND - site descriptions (printed 1902/2024
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the south then west also chokes. To the
west is a 12 m pitch which has no draught west is a 12 m pitch which has no draught
but may continue in a rift down. Above the p12, a 4-bolt traverseon the $N$ wall leads to a 3 m diameter chamber with a lot of helictites but no way on. The roof is choked with boulders.
B Drop. A well decorated, 4 m high and 2B Drop. A well decorated, 4 m high and 2-
3 m wide route sets off from the summer 3 m wide route sets off from the summer
end of South Passage and leads to a pitch end of South Passage and leads to a pitch
with a p8. The bottom of p8 is B Chamber, so the p8 was not dropped. (Surveyed as so the p8 was not d
batch $18-02,168 \mathrm{~m}$ )
Crystal Mine. As above, climbing up the c2 in the NW corner of the wall in B Chamber and spiraling up left behind the wall leads to the view point above $B$ Chamber (stn 1.5). This is followed by a climb (protected by 1 bolt and stal) up in the N corner. From there a walking size meandering passage is heads west for about 100 m . The passage is very nicely decorated with stal and helictites. At the end the passage gets too small. In August 2018, 3 dig queries around Chamber were excavated and found to join to known passage.

Batch 3234-17-06 A short body sized tube leaves the main passage east, roughly 25 m south of the junction at station 17-05.27. large fallen white flake of calcite marks the entrance to the side passage. At the bottom the tube a T-junction is reached and the passage is stooping height
To the right the passage closes down almost immediately with no prospects. To the lef the passage enters a small low circular chamber up a steep ramp. From here two routes converge on another chamber surrounded by fallen boulders. The mair route continues round the circular chamber and down a steep slope. A second route is through a tight crawl, partly blocked by a boulder.
From this second chamber, the roof height enlarges significantly. A low route east under a huge fallen boulder could be seen but was not pushed or surveyed. Straight on up a slope in a gap between fallen boulders leads to a junction (17-06.9 - marked by a small cairn).
From this junction heading north leads up a steep slope and a 1 m high step into the big chamber at 17-05.29. Heading east is in a short wide passage with many fallen rock flakes towards a rift heading roughly north/south (stn 13)
In a hole in the floor below stn 13, a big chamber can be seen below. The was briefly entered beyond stn 14 in the summer but not pushed or surveyed due to time constraints. The documentation of
WWNTF happened in February 2018. WWNTF happened in February 2018

## We Were Not The First (WWNTF) The

series can be entered from the south via the east/west passage. Another route is from stn17-06.14: the p2 drop leads to a shelf, from where there is a 4 m drop into the chamber below. Getting across the p2 drop into a tube leads to a junction where there are 3 ways on, one down towards the north (a dig in sand/rock, $40 \times 10 \mathrm{~cm}$ ), one up towards the north (draughting, solid rock 20 $\times 80 \mathrm{~cm}$, may get wider around corner) an the last down towards the south, from where the WWNTF Chamber is entered. In the southern end of WWNTF Chamber, there are 2 ways on

1) A low sandy crawl that draughts but get too low. At that point the passage has a flat roof and sandy floor with sand slopes up to the sides - easy digging. This was dug for hours on 6th April 2022. At a cross-rift i was possible to get up into the roof but snappers are required
) A clomb up towards the east leads to a ledge, from where a rift is entered and also "continues low under boulder" is reached. At the ledge there is also a c2 up back in the chamber above WWNTF Chamber. The rift heads south and ends at a 20 cm wide rift that draughts.

Batch 3234-17-07 From the main passage at 17-05.22, a low passage leads off roughly east and shortly enters a chamber with height chamber at stn 3 (cairn) and eventually into a walking height passage The passage ends in a huge boulder choke underneath the main passage between stations $17-05.50 \& 51$. A very low craw was evident heading west from the stooping ght chamber but not investigated fully. Heading instead along the long-axis of the chamber at stn 3, a low crawl in the roof drops down into another small chamber where a voice connection was heard from hole in boulders below the main passage junction at 17-05. 27. A small passage from this chamber emerges into the mair passage just south of the station 27 junction
South-ish Passage (batch 3234-17-08) in MATIENZO UNDERGROUND site descritions (ninted 190202 Volume 5 - page 14

Batch 09-09-14 was extended to the south (summer 2010) in a set of passages and loops, surveyed as batch $\mathbf{1 0 - 0 7}$. It is very difficult to see where the passage is going in this area: it seems to be an old, reexcavated passage so, where you move out of the area of water ingress, it's choked up. However, there is one open lead left.
This may have been looked at over Easter 2013 when 2 trips were made into this area to push and survey (batch 13-01). The first extension goes off from station 3234-10extension goes off from station 3234
07.3234 _10aug20104.3 in the lower passage and, decorated with some 1 m straws, goes west for 15 m until it is below straws, goes west for 15 m until it is below a
previously known chamber. Water drips into previously known chamber. Water drip
the passage from the chamber above. the passage from the chamber above.
Removing boulders revealed a route into the Removing boulders revealed a route into th chamber but the connection was not made due to possibly unstable boulders.
The second target was off the chamber 15 m further SSW. A climb up a boulder ramp and back over the top of the chamber leads to sloping up passage that ends in
p14 (not dropped). At the pitch head, a plu (not dropped). At the pitch head, a
slope up to the left (SW) ends after abou 6 m . Another slope up to the right ( S ), followed by a c+2 on solid stals, leads to horizontal crawl for about 6 m with a bodyswallowing rift on one side which has not been checked for depth. Squeezing under the wall at the end leads to a muddy 10 m passage. At the end it goes two ways.
First: A crawl to the left to a chamber (Bird Wing Chamber) with a p8 and p7 (likely leading to the same passage). The p8 gets really close to a dig (see 3rd target) below).
At Easter 2014, the following explorations were made but not surveyed due to a Distox were made but not surveyed due to a Disto
malfunction. The letters refer to the notes malfunction. The letters refer to the notes
made in the logbook and on the survey in made in the logboo
the Bird Wing area
C: The p8 at the S en
C: The p8 at the S end of Bird Wing Chamber was dropped into NE descending passage that goes unde
the p7 and drops about 15 m from the top of the p8, moving about 15 m towards the NE. There is no way $20 \times 30 \mathrm{~cm}$ hole which. At the base of the p8 there is possible passage. Needs caps or snappers. Leads to Mitre Passage, see above.
D: The p14 was dropped to a false floor to a mouse E: The end of the rift needs metres. F: Crawl for 5m, digging. One or two snappers will reach a chamber / passage of about 4m diameter
dropping down. Hole below p 8 in "C" and "F" are dropping down. Hole below p8 in "C" an
very close and are expected to connect.

Second: Crawl straight to a 4 m high meander, where the far end might dig to a continuation. Where the meander is entered there is a small squeeze down in the floor, where water runs down. The squeeze ends too small with no way on

The third objective was a dig at top of the ramp just $N$ of the bottom of the p16. A 4 m crawl leads to a too narrow window into a bigger passage, with a draught. The window may dig, but most likely it leads to the same passage as the p8 mentioned above, as the horizontal distance is only about 3 m from disto measurement down and towards the W in $p$
There may be a higher passage to the right at the T junction (3234-09-14.blood-and-t-pitch3.0), just 30 m WNW of bottom of p16. This needs a rope and $1-2$ bolts to protect
(There seems to be an error in the survey in the location marked "error" on the current survey, the $p 7$ is located in the wrong end and there in only one connection at the 4 way junction. This will be sorted on the next trip after Easter 2013.)
The high and low level digs were looked at
ver Easter 2016. The former closed in after over Easter 2016. The former closed in afte a very muddy dig and the latter, constricted dig, has yet to be excavated.

The upstream end was pushed to more than 750 m of passages (not all directly linked to the Blood, Sweat and Tears area) over the Easter 2010 period. Batch 10-05 is a consolidation of batches $10-01,10-02$ and 10-3. The inlet was pushed in dry conditions over gour pools and after two days connected to the Pulse Racer. Here, a big side passage at the eastern end was entered up a 2 m climb. The passage loops entered up a 2 m climb. The passage loops
back to the Pulse Racer but also closes in as it almost reaches the surface.

At the western end of the Pulse Racer, a traverse across the p4 ( 3 bolts) enters a passage that lowers to a flatout crawl and squeeze into a $7 \times 7 \mathrm{~m}$ chamber. This contain a boulder choke at the northern side that
could dig. Some interesting roof tunnels could dig. Some interesting roof tun were noticed in Pulse Racer on the 27/7/2022 trip. At the southeastern side of the chamber, High Pulse Passage leads to a sand choke where the air feels fresh.

Six metres into High Pulse there is a good draught from a rock and sand dig to the
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south that was dug for a short distance in
Aprili 022 ater extension in fride Do

This western dig - which appeared to be 5 m from Fridge Door Cave - is is dry sand and small rocks and was connected into Fridge Door Cave at station 81 on April 5th
2023 . 2023.

The dig at the start of High Pulse ended as recalled by this 27th July 2022 logbook account by Andrew Northall:
Good progress was made over the course of 4-5 hours, however the dig, a downward sloping phreatic tube, was found to get steadily tighter and digging was arduous with a thick layer of calcite needing to be chipped off the bottom. A small (absolutely tiny, non-human sized) area was seen beyond the phreatic tube at which point the dig went horizontal. A GoPro inserted into
dig this showed that the dig continued to ge this showed that the dig continued to get
smaller beyond this chamber. Despite the good draught, the dig was abandoned as the time investment required to make significant progress would be huge, unless technical progress would be huge, unless technical digging techniques were used to remove a very large amount of limestone. All the ern end has been removed.

Just before the Horny Dog series is entered, there is a good sandy dig on the east. This was excavated (summer 2010) for about 5 m but a team of 3 and and a drag tray are required for further progress. Horny Dog ends in a chamber with two ways out a rift in the floor and a p10. The p10 leads into a big chamber that runs below the eastern end of Horny Dog and below the rift in the floor. The p10 requires $2+1$ bolts. The edge is bad quality mud and rock that makes the edge quite unstable. The rebelay to the south keeps the explorer out from the unstable wall. The main passage continues about 80 m to the west, in places almost filled to the roof with very nice mud layers A few metres to the east of the p10, a rift was dropped (Easter 2015) into a 4 m long meander towards the east. This was choked with mud.

At Easter 2014, the duck was lowered. is " 60 m east" of the High Hopes Horny Dog connecting crawl.

Following the water back down from High opes (batch 09-01) leads past a cracked mud floor to the left and a hands-and-knees crawl over mud with the water disappearing to the right. This draughting dig was excavated at Easter 2014 and connected through to the Horny Dog series. Straight ahead enters a chamber, Whoopee Hall, with a walking route straight on. This lowers after 15 m to a decorated crawl which splits. Left and right routes choke very near the surface.

Passages north of Whoopee Hal Back in Whoopee Hall, a walk along the wall and then up calcite to the north meets a very short crawl at roof level. To the right The Hub, and on the left is the small entry to the Pulse Racer series (batch 09-07) Here, a p4 leads to two alternative route on: either a tight excavated hole, or a climb out and another p4. Both unite at a low section through to open passage that ends at an open 15 m drop past massive stal and calcite. This pitch lands in the Pulse Racer large passage heading ENE that meets a 3 m climb up and 4 m pitch before closing down at a tight, mud choke, Terminal Decline
(batch 09-08). Extensions were made in this area at Easter 2010. (See batch 10-05 description above.)
(Batch 09-091) The Hub is a chamber with a calcite floor over collapse that slopes up from approximately south to north. The calcite is covered with a thin, 2 mm layer o slippery mud which peels off in strips. The calcite underneath has a rough surface and pristine cream colour. The rising route ove this unusual feature is obvious and should be kept to.
(One theory for its formation is a gentle (One theory for its formation is a gentle "rain" of cow manure from the field above filtering through 6 m (at the least) of livestock have be hundreds of years livestock have been roaming the pastur The thin, even deposit is seen in other places in the cave, coating calcite surfaces An analysis carried out by Dr Peter Wyn from the LEC (2020, pers. comm.) has concluded that this sticky mud and black, cracked mud in High Hopes "are very close in nitrogen content and isotope value to the soils sampled above High Hopes Chamber' It appears that "the layered sediments in MATIENZO UNDERGROUND site descriptions (printed 19/02/2024) Volume 5 - page 16

The Hub contain a high proportion of anthropogenic nitrogen and are relatively
modern in depositional age". Other sampled dry sediments - assumed to be more ancient because of their position - have a much lower nitrogen concentration and "an isotop value that suggests minimal slurry (modern) value
input".) input
Straight ahead, at the base of the slope, the route enters a small streamway with the exi too tight and the inlet soon becoming too small. (The water here cannot be that seen
in the muddy crawl to Whoopee Hall as the in the muddy crawl t
altitudes are wrong.) altitudes are wrong.)
At the base of The Hut
At the base of The Hub is a hole which leads to a little chamber with a sand / mud floor that comes very close to the passage below (Horny Dog level) which ends in a sandy choke. The two passages could probably be connected by digging (bring a shovel!). This small chamber was revisited in the summe 2015
At the top of The Hub slope, the walkingsize passage sets off to the right over small collapse, with massive limestone forming the lower parts of the walls and more lumpy rock the upper walls and roof. On the right, small routes lead back at high level to the northeast wall of The Hub. A few metres
further on, in May 2019, 3m of clay and stones were removed from a passage on the right that appears to be narrowing. This dig right that appears to be narrowing. T
was enlarged and continued over two was enlarged and continued over two
sessions in June and further work occurre sessions in June and further work occurred in the summer. A further session occurred April 2022 and a GoPro on a stick gave some encouragement for further digging
However, two sessions in October 2022 However, two sessions in October 2022
appeared to show the routes closing in. (Se appeared to sho
Videos below.)

The route continues down to the left past cave pearls on the floor and then left again to head west. The passage swings back on itself and walking / stooping over collapse through Wide Open passes the northern limit of Easter 2009 exploration and, after another 25 m , breaks out into a nice phreatic passage. The passage slopes down past a groups of stal, passes a mud floor and enlarges at an aven.
(batch 10-06) To the east of the aven a rift drops to a dig with a larger section beyond. This was pushed through a sand choke in the summer 2010 to a low crawl for 25 m , winding left and right. This breaks out into a winding left and right. This breaks ol
large chamber then over a rock step large chamber then over a rock step
dropping into another chamber and ending in an 8.6 m shaft which chokes with a trickle soaking away.

## Up The Aven

The Aven has been Disto'd to give a height of 32 m . This was partially bolted (abou 14 m up) in the summer, 2010 and completed in the autumn, 2011. (There is one rebelay, 3 m below the top of the climb, with a rubpoint, currently protected by tacklebag. The next team can finish the 8 mm hole about 0.5 m left of the rebelay to get a rebelay without the rubpoint.) Near the top, a traverse of about 7 bolts is over loose material. Everything moved on th makes it a bit dangerous. The aven climb and the new Aven Series was pushed fror 424 m over 4 days After the travers. After the traverse, a climb up through a slot enters the Highway with broken down rock on the floor. The draught blows towards you on a hot day. This leads to The Cross Roads Shaft. The rock of the walls is very bad for bolts, but the roof corners are good. Four bolts are put in row over about 6 meters
the NE side of the wall, with the last bolt just behind blocks as the slope starts. One more bolt just over the edge provides a 20 m
free hang.
There are more ways on from "Cross roads shaft"
Starting about 4 m off the floor on the pitch, the East Wing is reached by the "Line of Fire" (a traverse of 6 bolts) and a 3 m climb ( 1 bolt) to an anchor in the passage ( 2 bolts). A good draught blows towards you. A boulder choke at the end is very solid at the top and seems close to site 3454, CuevaCubio del Llanío 2. It may be possible to climb down into the choke, but it seems not really safe. There are 2 pitches near the end of the East Wing.
The pitch on the south side of East Wing ( 8 m southeast of the grotto) was descended and passages explored around
January/February 2012 (batch 12-01). The shaft is called Eels Shaft and is split p13 + 55. The anchor is 2 studs on the wall with the rope up over a boulder into the shaft, and one stud to free hang the p13. This drop ends 2 m below a 1 m chock stone and there is one stud for the next p5 slope. At bottom of the p13 a crawl south through Eels Grotto leads into walking size passage past Eels Mouth and into side of the 6 m wide Eels Aven ( 22 m up and 8 m down) There are 8 studs put on a traverse into the
passage across the aven. However, there is

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only 2 m of passage before the route drops
4 m into a meander/aven ( 22 m up) with no Cross Roads Shaft and doing a pendulum, followed by climbing a 2 m gravel wall. A nice sandy floor is similar to East Wing. After about 15 m it turns north and after 5 m enters a boulder choke/rift. A narrow rift heads back into Cross Roads Shaft. Climbing up the choke/rift leads to walking size passage on a boulder floor heading west for 12 m and ending. At the top of the choke the passage leads back into Cross Roads Shaft.

Back at the base of The Aven, the passage
slopes down over mud to a pit in the floor slopes down over mud to a pit in the floor
and a level area just before station 16 on a large rock. This is another hub and routes and passages are more numerous from here
(Batches 09-1311 \& 09-131) The pit is a 3m ladder climb through a mud-lined slot to the head of an 15 m free-hanging drop in a large rift. This is probably best dropped using SRT as there is a possible passage to swing
traverse into 5 or 6 metres up from the traverse into 5 or 6 metres up from the
bottom. The drop ends on a ledge with a bottom. The drop ends on a ledge with a
climb over a lip to a drop of at least 15 m which is undescended. (The probable base of this would be at the same altitude as Terminal Decline.) A short climb down from the ledge ends below a possible climb up into the visible passage to the west.
During summer 2010, this was re-explored and extended and described as follows. "Muddy, awkward top opens out with an easy descent to a bridge between drops. A short climb down then up enters a short section of passage which chokes." (Included in batch 10-09). "From the top of the bridge, pitch descends to an awkward mud hole (easy dig) to a further drop and a short horizontal section to a further drop of $c 5 \mathrm{~m}$. Needs bolts before and after mud hole." A section sketch of the pitches (from the 2010 section sketch of the pitches (from
summer logbook) can be seen here.
(Batch 09-091) The large passage to the
(Batch 09-091) The large passage to the
north of the pit contains 3 rifts which can be north of the pit contains 3 rifts which can b skirted around or climbed into. At the base of the middle one, a dig to the east has gone $20+\mathrm{m}$ to another dig and a passage that becomes too small, while the further rift links to known passage to the west. Beyond the rifts, the passage swings to the left (with a possible climb up on the left wall) and rises on sand to an apparent dead end. However, a narrow climb up on the left and squeeze through closes the Jovens' Loop larger people enter the rest of the loop at station 16.
Where the passage swings to the left, a climb up in a boulder-floored rift enters the Lazo de Ancianos, surveyed as batch 2889_11_01. A small passage passes through a couple of squeezes and a short crawl in a tube before reaching a small Tjunction. To the right (northwest) the junction. To the right (northwest) the passage closes down. To the left, a 5 m flat out crawl has been dug and pushed by on walking passage that closes down at a small walking passage that closes down at a small
hole as it apparently approaches the Joven's hole a
Loop.
The sandy dig at the "apparent dead end" was excavated at Easter 2011 and immediately connected with station 0 (1/8/09) in Joven's Loop
(Batch 09-092, batch 09-093) Turning west at station 16 leads to smaller passage. The Jovens Loop route turns right at a cracked arch feature and carries on with a climb along the right wall of a rift. Straight ahead the passage becomes too low on rubble but, to the right, a low crawl on rubble under a loose roof eventually emerges in a sand passage which meets a cross rift with
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and tight squeeze through to complete the round trip.

Stepping over and around the rift after the cracked arch leads to a smaller route to cracked arch leads to a smaller route to
Snap, Crackle and Pop (Batch 09-094), an excavated section where it is now possible to slide up the side of a large boulder into to slide up the side of a large boulder into
low passage, Playing Card House Pushover. low passage, Playing Card House Pushover.
The next 65m (batches 09-108 \& 09-107) is The next 65m (batches 09-108 \& 09-107) is
stooping or hands-and-knees crawling over stooping or hands-and-knees crawling over
roof collapse, passing a hole - the entry to roof collapse, passing a hole - the entry
Yorkshire Passage - down to the left. The route enlarges at a sloping pitch head with fine view across to the continuation of the passage swinging to the right. The 9 m pitch
slopes down over loose rubble with a 4.5 m slopes down over loose rubble with a 4.5 m vertical drop to finish. (Batches 09-1110 \& 09-119) The base chokes in both directions. In the summer 2010, the 6 m climb at the
western end was tackled but the passage a western end was tackled but the passage a the top is now entered by a roped traverse and cowstails. (When inspected in July 2022, an adequate line was found in place with rusty bolts, solid hangers and very rusty maillons (but seemed solid). A hand ammer could be useful for the final travers jammer could be useful for the final travers leg up into the continuing passage. A walking passage at the top leads past
formations to a 15 m high aven with a fine formations to a 15 m high aven with a fine thite calcite wall with a possible passage at the top. There may be possible holes down to the right. The Playing Card House Pushover Extensions continue through walking passage to a crawl and further walking passage to a lined traverse over deep drops into a more complex area. The various leads were tackled in this northwestern end over one trip in the summer 2011, including a bolt traverse to a possible "black hole". The survey has the results of these climbs and pitch explorations.
The sinuous route through Yorkshire Passage (batch 09-106) soon ends at a small chamber that slopes down over loose rubble to a $3 m$ vertical drop, passing precariously close to a metre-high stalagmite. To the west, (batch 09-101) walking passage closes up after 20 m at an arch filled with rubble that may be a digging prospect. To the east through a 1 m diameter hole with formations through a 1 m diameter hole with formation
on the left, an 8 m pitch down the wall of a rift lands on deep sand that slopes steeply rift lands on deep sand that slopes steeply
down to the other side of the rift with no way on. (Batch 09-121)

Being linked to Cueva de Riaño, and close tc Fridge Door Cave, Cueva de Entrambasaguas and Cueva Torno, this is a cave with excellent potential in most directions!

Science
In 2012, a radon sensor was left in the cave from 5th August until 15th November. The result from the detector, which was placed in High Hopes Chamber, was $4090+/-740$ $\mathrm{Bq} \mathrm{m}{ }^{-3}$. At Easter, 2014 (from 15th-20th April) a radon sensor gave a reading of 3612 thers, and further reading about radon can be found here
iological sampling was untaken as part of research project at Easter 2014. Over Easter 018, the Matienzo Karst Entomology Project (led by Tom Thompson) followed up a previous study by collecting bugs, sp sampling and setting pitfall traps in a number of sites under a Cantabria-wide permit. The Entomology Project carr
some work in this cave. Traps were some work in this cave. Traps were
retrieved and spot sampling was carried out retrieved and spot sampling was carried ou
over Easter 2019. Photos were also taken. Water sampling around High Hopes was undertaken to check nitrate levels as a precursor to possible future study. This was followed up in January 2019 when a Lancaster University master's degree student, Scott Ambler, accompanied by Dr Peter Wynn and Andy Quin collected samples for a study of nitrogen levels in water, mud and stal. The sampling points were in High Hopes, Whoopee Hall, the passage beyond that heads back to the surface and The Hub, where a sample of the mud layer on the calcite was taken. (Photos video) Further samples were taken aroun Easter 2019 and in the summer. Some results and conclusions are mentioned in "Passages north of Whoopee Hall" - The Hub section, above
The science paper was published by Peter Wynn et al in Chemical Geology (Elsevier) in April 2021, based on water and sta collected and analysed from Cueva-Cubío del Llanío. Titled "Contemporary systematics of vadose zone nitrate capture by
speleothem carbonate", the paper concludes that nitrate trapped in stal forms a good
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nitrate above and below ground. The potential for measuring changing nitrate pollution in karst areas is obvious. A link to the pa
2021.

A new science project, with a view to producing a "Speleothem Phosphate
Palaeothermometer" started in February Palaeothermometer" started in February
2023. This project intends to provide a 2023. This project intends to provide a
breakthrough in the field of temperature breakthrough in the field of temperat
reconstruction by developing a new reconstruction by developing a new palaeothermometer using phosphate-oxygen isotopes contained within speleothems. The NERC-funded project will uses Llanío as the collection centre for taking water samples to measure phosphate levels along with temperature and CO2 data. The research team includes Peter Wynn and Ben Surridge from the Lancaster Environment Centre of Lancaster University and Andi Smith from the British Geological Survey. See an introductory article

This study may be curtailed by the building works taking place at the top of the entrance field (see March 2023, "Original entrance and eastern Passages" note, above.)

John and Gordon from the MCP, while searching in the fields west of the old searching in the fields west of the old
entrance in October 2019, were shown entrance in October 2019, were shown a
number of (known) caves by the farmer. As it came on to rain, he drove them back to their vehicle - "Great guy!".

## Survey batches

Abbreviations: JCa: James Carlisle JCI: John Clarke HL: Harry Long JC: Juan Corrin AN: Alasdair Neill HL: Harry Long JC: Juan Corrin AN: A Aasdair Neill
PG: Paul Gelling PP: Phil Papard SG: Simon Gelling PPa: Phil Parker TR: Torben Redder PFN: Peter Fast Nielson TW: Terry Whitaker LK: Louise Korsgaard
MM: Marites Magpantay TCl: Tom Clayton PE Peter MM: Marites Magpantay TCI: Tom Clayton PE: Pe
Eagan JO: Jude Onions SR: Sue Ryall DM: Dave Eagan JO: Jude Onions SR: Sue Ryall DM: Dave
Milner BB: Bjarne Buchardt SP: Stig Pallesen $\mathbf{T}$ Tom Howard PON: Pete O'Neill RB: Richard Bullock ND: Nigel Dibben PC: Peter Clewes DD: Dave Dillon CSm: Carmen Smith SU: Santi Urrutia DB: Dave Bell C\&C. Compass \& clino DX : DistoX

| $\begin{aligned} & \text { Batc } \\ & \mathrm{h} \end{aligned}$ | name | date | surveyo rs | $\begin{aligned} & \text { meth } \\ & \text { od } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 09- \\ & 01 \end{aligned}$ | entrance passages | $\begin{aligned} & 16 / 04 / 200 \\ & 9 \end{aligned}$ | JC, HL | $\mathrm{C} \& \mathrm{C}$ |
| $\begin{aligned} & 09- \\ & 02 \end{aligned}$ | No High Hopes | $\begin{aligned} & 01 / 08 / 200 \\ & 9 \end{aligned}$ | JCl, JC, HL | $\mathrm{C} \& \mathrm{C}$ |
| $\begin{aligned} & 09- \\ & 03 \end{aligned}$ | east to dig | $\begin{aligned} & 01 / 08 / 200 \\ & 9 \end{aligned}$ | JCl, JC, HL | $\mathrm{C} \& \mathrm{C}$ |
| $\begin{aligned} & 09- \\ & 04 \end{aligned}$ | n-beyond The Hub | $\begin{aligned} & \theta 1 / 08 / 200 \\ & 9 \end{aligned}$ | $\begin{array}{ll} J C,^{S} & P G, \\ S G \end{array}$ | Esc |
| $\begin{aligned} & 09- \\ & 05 \end{aligned}$ | east beyond dig | $\begin{aligned} & 02 / 08 / 200 \\ & 9 \end{aligned}$ | AN, PP | $\mathrm{C} \& \mathrm{C}$ |
| $\begin{aligned} & 09- \\ & 06 \end{aligned}$ | east beyond dig | $\begin{aligned} & 02 / 08 / 200 \\ & 9 \end{aligned}$ | AN, PP | DX |
| $\begin{aligned} & 09- \\ & 07 \end{aligned}$ | $\begin{aligned} & \text { W from } \\ & \text { stn } 6 \end{aligned}$ | $\begin{aligned} & 02 / 08 / 200 \\ & 9 \end{aligned}$ | JCl, HL | C\&C |
| $\begin{aligned} & 09- \\ & 08 \end{aligned}$ | Pulse Racer | $\begin{aligned} & 3- \\ & 4 / 8 / 2009 \end{aligned}$ | $\begin{aligned} & \text { JCl, } \\ & \text { PPa } \end{aligned}$ | C\&C |
| $\begin{aligned} & 09- \\ & 09 \end{aligned}$ | N beyond The Hub | $\begin{aligned} & 07 / 08 / 200 \\ & 9 \end{aligned}$ | JCl, JC | DX |
| $\begin{aligned} & 09- \\ & 10 \end{aligned}$ | Beyond <br> Snap, C\&P | $\begin{aligned} & 11 / 08 / 200 \\ & 9 \end{aligned}$ | JCl, JC | DX |
| $\begin{aligned} & 09- \\ & 11 \end{aligned}$ | Beyond Snap, C\&P W p | $\begin{aligned} & 13 / 08 / 200 \\ & 9 \end{aligned}$ | JCl, JC | DX |
| $\begin{aligned} & 09- \\ & 12 \end{aligned}$ | $\begin{aligned} & \text { Beyond } \\ & \text { Snap, C\&P } \\ & \text { S p } \end{aligned}$ | $\begin{aligned} & 13 / 08 / 200 \\ & 9 \end{aligned}$ | JCl, JC | DX |
| $\begin{aligned} & \text { 09- } \\ & 13 \end{aligned}$ | p15 <br> beyond <br> 32 m qven | $\begin{aligned} & 13 / 08 / 200 \\ & 9 \end{aligned}$ | み | \# |
| $\begin{aligned} & 09- \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { down p11 } \\ & \text { in LL } \\ & \text { Series } \end{aligned}$ | $\begin{aligned} & 09 / 11 / 200 \\ & 9 \end{aligned}$ | PP | DX |
| $\begin{aligned} & 10- \\ & 05 \end{aligned}$ | consolida ted batches | $\begin{aligned} & 29 / 3- \\ & 1 / 4 / 2010 \end{aligned}$ | $\begin{aligned} & \text { TR, } \\ & \text { PFN, } \\ & \text { TW, } \\ & \text { JCa, LK } \end{aligned}$ | DX |
| $\begin{aligned} & 10- \\ & 04 \end{aligned}$ | $\begin{aligned} & \text { extension } \\ & \text { to E to } \\ & \text { dig } \end{aligned}$ | $\begin{aligned} & 02 / 04 / 201 \\ & 0 \end{aligned}$ | JCa, TCl | C\&C |
| $\begin{aligned} & 10- \\ & 06 \end{aligned}$ | sand choke below 32m aven | $\begin{aligned} & 03 / 08 / 201 \\ & 0 \end{aligned}$ | $\begin{aligned} & \mathrm{JCl}, \\ & \mathrm{PPa} \end{aligned}$ | $\mathrm{C} \& \mathrm{C}$ |
| $\begin{aligned} & 10- \\ & 07 \end{aligned}$ | $\begin{aligned} & \text { below } \\ & \text { B,S\&T } \\ & \text { pitch } \end{aligned}$ | $\begin{aligned} & 09 / 08 / 201 \\ & 0 \end{aligned}$ | PP, TR | DX |
| $\begin{aligned} & 10- \\ & 08 \end{aligned}$ | $\begin{aligned} & \text { PCHP } \\ & \text { extension } \\ & \text { s } \end{aligned}$ | $\begin{aligned} & 11 / 08 / 201 \\ & 0 \end{aligned}$ | JCl, JC | C\&C |
| $\begin{aligned} & 10- \\ & 09 \end{aligned}$ | p15 beyond 32 m aven | $\begin{aligned} & 11 / 08 / 201 \\ & 0 \end{aligned}$ | $\begin{aligned} & \mathrm{PE}, \mathrm{AN}, \\ & \mathrm{TR} \end{aligned}$ | DX |
| $\begin{aligned} & 10- \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { PCHP } \\ & \text { extension } \\ & \text { s } \end{aligned}$ | $\begin{aligned} & 13 / 08 / 201 \\ & 0 \end{aligned}$ | JO, SR | $\mathrm{C} \& \mathrm{C}$ |
| $\begin{aligned} & 10- \\ & 11 \end{aligned}$ | $\begin{aligned} & \text { PCHP } \\ & \text { extension } \\ & \text { s } \end{aligned}$ | $\begin{aligned} & 13 / 08 / 201 \\ & 0 \end{aligned}$ | Jo, SR | C\&C |

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| $\begin{aligned} & 10- \\ & 12 \end{aligned}$ | PCHP <br> extension <br> s | $\begin{aligned} & 16 / 08 / 201 \\ & 0 \end{aligned}$ | AN, PE | C\& C |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 11- \\ & 01 \end{aligned}$ | Lazo de Ancianos | $\begin{aligned} & 26 / 04 / 201 \\ & 1 \end{aligned}$ | DM, PPa | C\& C |
| $\begin{aligned} & (11- \\ & 02) \end{aligned}$ | $\begin{aligned} & \text { incorpora } \\ & \text { ted in } \\ & 11-04 \end{aligned}$ |  |  |  |
| $\begin{aligned} & \text { (11- } \\ & 03) \end{aligned}$ | $\begin{aligned} & \text { incorpora } \\ & \text { ted in } \\ & 11-04 \end{aligned}$ |  |  |  |
| $\begin{aligned} & 11- \\ & 04 \end{aligned}$ | Aven <br> Extension <br> s | $\begin{aligned} & 14- \\ & 17 / 10 / 201 \\ & 1 \end{aligned}$ | TR, PFN | DX |
| $\begin{aligned} & 12- \\ & 01 \end{aligned}$ | Eels <br> Shaft and beyond | $\begin{aligned} & 2,3 / 2 / 201 \\ & 2 \end{aligned}$ | $\begin{aligned} & \text { TR, } \\ & \text { PFN, } \\ & \text { BB, } \quad \text { SP } \end{aligned}$ | DX |
| $\begin{aligned} & 12- \\ & 02 \end{aligned}$ | West Wing | 31/1/2012 | $\begin{aligned} & \text { TR, } \\ & \text { PFN, } \\ & \text { BB, } \quad \text { SP } \end{aligned}$ | DX |
| $\begin{aligned} & 13- \\ & 01 \end{aligned}$ | Bird's <br> Wing <br> (contains <br> duplicated <br> legs) | $\begin{aligned} & 26,29 / 3 / 2 \\ & 013 \end{aligned}$ | $\begin{aligned} & \text { TR, } \\ & \text { PFN, } \\ & \text { LK, MM } \end{aligned}$ | DX |
| $\begin{aligned} & 16- \\ & 01 \end{aligned}$ | below <br> Bird's <br> Wing to <br> SW | $\begin{aligned} & 28 / 3, \\ & 1 \& 2 / 4 / 201 \\ & 6 \end{aligned}$ | TR, PFN | DX |
| $\begin{aligned} & 17- \\ & 03 \end{aligned}$ | Under <br> Road <br> Chmbr, <br> Mulu <br> Manners | $\begin{aligned} & \text { April } \\ & 2017 \end{aligned}$ | TR, <br> PFN, LK | DX |
| $\begin{aligned} & 17- \\ & 04 \end{aligned}$ | Mulu Corner towards S. Passage | 2/8/2017 | TR, LK, PP | DX |
| $\begin{aligned} & 17- \\ & 05 \end{aligned}$ | continued <br> to South <br> Passage | 4/8/2017 | $\begin{aligned} & \text { TH, } \\ & \text { PON, TR } \end{aligned}$ | DX |
| $\begin{aligned} & 17- \\ & 06 \end{aligned}$ | loop <br> south of <br> Ski Slope | 8/8/2017 | RB, ND, PC, DD | C\&C? |
| $\begin{aligned} & 17- \\ & 07 \end{aligned}$ | nearly <br> loop <br> south of <br> Ski Slope | 8/8/2017 | $\begin{aligned} & \text { TH, ND, } \\ & \text { PC, } \end{aligned}$ | DX |
| $\begin{aligned} & 17- \\ & 08 \end{aligned}$ | South-ish Passage | 8/8/2017 | $\begin{aligned} & \text { TH, ND, } \\ & \text { PC, DD } \end{aligned}$ | DX |
| $\begin{aligned} & 18- \\ & 01 \mathrm{a} \end{aligned}$ | Top p10 to Mitre | 29/1/18 | TR, PFN | DX |
| $\begin{aligned} & 18- \\ & 01 \mathrm{~b} \end{aligned}$ | S Sandy Chamber | 29/1/18 | TR, PFN | DX |
| $\begin{aligned} & 18- \\ & 02 \end{aligned}$ | $\begin{aligned} & \text { B Chamber } \\ & ++ \end{aligned}$ | 30/1/18 | TR, PFN | DX |
| $\begin{aligned} & 18- \\ & 01 \mathrm{c} \end{aligned}$ | Up \& Running | 31/1/18 | TR, PFN | DX |
| $\begin{aligned} & 18- \\ & 03 \end{aligned}$ | S Ski Slope: WWNTF | 1/2/18 | TR, PFN | DX |
| $\begin{aligned} & 18- \\ & 04 \end{aligned}$ | Crystal <br> Mine | 1/2/18 | TR, PFN | DX |
| $\begin{aligned} & 18- \\ & 05 \end{aligned}$ | Hidden Crawl | 3/2/18 | TR, PFN | DX |
| $\begin{aligned} & 18- \\ & 06 \end{aligned}$ | Side Road lead | 3/2/18 | TR, PFN | DX |
| $\begin{aligned} & 18- \\ & 07 \end{aligned}$ | $\begin{aligned} & \text { SW of Ski } \\ & \text { Slope } \end{aligned}$ | 27/3/18 | TR, JCa | DX |
| $\begin{aligned} & 18- \\ & 08 \end{aligned}$ | Around <br> Monster <br> Ramp | 31/3/18 | $\begin{aligned} & \text { TR, PE, } \\ & \text { CSm } \end{aligned}$ | DX |
| $\begin{aligned} & 18- \\ & 09 \end{aligned}$ | Napoleon Passage | 1/4/18 | $\begin{aligned} & \mathrm{TR}, \mathrm{PE}, \\ & \mathrm{CSm} \end{aligned}$ | DX |
| $\begin{aligned} & 19- \\ & 02 \end{aligned}$ | Mouse Chamber + | $\begin{aligned} & 9,11- \\ & 12,14 / 4 / 1 \\ & 9 \end{aligned}$ | TR, PFN | DX |
| $\begin{aligned} & 21- \\ & 02 \end{aligned}$ |  | $\begin{aligned} & 18, \\ & 20 / 10 / 202 \\ & 1 \end{aligned}$ | TR, PE, <br> LK, SU | DX |
| $\begin{aligned} & 22- \\ & 01 \end{aligned}$ | Don't <br> Lose Hope <br> area <br> (+20m up) | 16/4/2022 | $\begin{aligned} & \text { TR, PE, } \\ & \text { PFN } \end{aligned}$ | DX |
| $\begin{aligned} & 23- \\ & 01 \end{aligned}$ | ```Connectio n to Fridge Door Cave``` | 6/4/2023 | $\begin{aligned} & \text { TR, PE, } \\ & \text { DB } \end{aligned}$ | C\&C? |

Reference: anon., 2009a (Easter logbook); anon., 2009 c (summer logbook); anon., 2009d (autumn
logbook); Corrin Juan, 2010 (photos); anon., 2010b logbook); Corrin Juan, 2010 (photos); anon., 2010b
(Easter logbook); anon., 2010 c (summer logbook); León García José, 2010 (Volume 1 and Volume 2) survey and photos); Corrin Juan, 2011; anon.,
2011b (Easter logbook); anon., 2011 (summer logbook); anon., 2011e (autumn logbook); anon., 2012a (January, February logbook); anon., 2012d
(summer logbook); anon., 2012e (autumn logbook); (summer logbook); anon., 2012e (autumn logbook);
Corrin Juan, 2013a; anon., 2013b (Easter logbook); anon., 2014b (Easter logbook); Papard Philip, Corrin Juan and Smith Peter, 2014; anon., 2015b (Easter logbook); anon., 2015c (summer logbook); an
2016b (Easter logbook); anon., 2017b (Easter 2016b (Easter logbook); anon., 2017b (Easter
ogbook); anon., 2017c (summer logbook); anon logbook); anon., 2017c (summer logbook); anon., 2018a (January, February logbook); anon., 2018b
(Easter logbook); anon., 2018c (summer logbook); anon., 2019a (January logbook); anon., 2019b (Easter logbook); anon., 2019c (Whit logbook) anon., 2019e (autumn logbook); anon., 2020c
(Spring, summer logbook); anon., 2020d (autumn ogbook); Wynn P M et al, 2021; anon., 2021d (autumn logbook); Scaife C, 2022; anon., 2022b Easter logbook); anon., 2022c (summer logbook)
anon., 2022 d (autumn logbook); anon., 2022e

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(Christmas logbook); anon., 2023a (January

```
*)
```



Underground pictures : Easter $2009:$ summer
2009: autumn 2009 : Easter $2010:$ summer 2010 :
Easter 2011: summer 2011 : autumn 2011 (mainly
Easter 2011 : summer 2011 : autumn 2011 (main
Aven Extensions): February 2012 (West \& East
Wings, including Eels) : Eastern dig 2012 : Eas
2013 : Easter 2014 : campsite Easter 2016 :
Mulu Manners etc
Summer 2017: East of The Shark towards the Ski
Slope: Mulu Manners and descending loose c6:
Explorations beyond Mulu Manners
End
January February 2018 - Water sampling aroun
High Hopes : B Chamber, Crystal Mine, Mulu
Junction, Hidden Crawl (Jan/Feb 2018 explorations)
Easter 2018 - Subphone to Napoleon : old entrance
serie
trip
January 2019 - Lancaster University sample tak
for nitrogen analysis
Easter 2019 - entrance series : Overnight tri
Summer 2019 - trip to Mulu Manners (1) : Sample
collecting for nitrogen analysis: Link to Cueva de
collecting for nitrogen analysis: Link to Cueva de
Riaño (see also Cueva de Riaño) : skeleton : Trip to
Riaño (see also Cuev
Mulu Manners (2) :
October 2021 : Canny Passage : April 2022 (Torben
Redder) April 2022 (Peter Eaga) :
Redder) : April 2022 (Peter Eagan) : April 2022
(Andrew Northall) : July 2022 : October 2022, dig at
(Andrew
far west
Easter 2023 - connection to Fridge Door Cave Torben
En
Videos : summer 2009 (15Mb wmv file) : summer
2010 PCHP Extensions - 241Mb; 5 min. mpg or 5Mb
wmv file :
Easter 2011 - entrance passages to sandy dig : Lazo
de Ancianos extension
summer 2011- northwest corner leads : Autumn
2011 extensions. February 2012 extensions
Summer 2011- northwest corner leads : Autu
2011 extensions : February 2012 extensions
(YouTuba,
download)
Easter 2013 (YouTube) : Easter 2014 (YouTube) :
entrance passages (summer 2015) (YouTube) :
Easter 2016 explorations (YouTube)
Easter 2017 - Under Road Chamber - Ali Chamber
(YouTube) : Summer 2017 - explorations through
SubPhone Entrance (YouTube)
January / February 2018 - new explorations: B
January
Chamber, etc (YouTube) : Easter 2018 - Bolting at
the end of Napoleon Passage (Yo
the end of Napoleon Passage (YouTube) : Redder-
Korsgaard family trip (YouTube)
Sampling, January 2019 - in hand : Easter 2019 -
nearly a Riaño connection : Digging near The
Connection with Cueva de Riaño, July 2019
Second connection, Canny Passage, October 2021
Second conn (YouTube) :
Approaching Fridge Door Cave (April 2022)
(YouTube) : Dig in High Pulse April 2022
Approaching Fridge Door Cave (April 2022)
(YouTube) : Dig in High Pulse, April 2022 (YouTube)
: Chamber of Good Manners (YouTube) : dig beyond
: Chamber of Good Manners (YouTube) : dig beyond
: 2022 (YouTube)
The Hub - prospects (YouTube) : same dig, autumn
2022 (YouTube)
Far west dig, October 2022 (YouTube) : Through to
Fridge Door Cave, 5th, 6th April 2023 (YouTube)
Detailed Survey : hand-drawn (Easter 2009) :
Detailed Survey : hand-drawn (Easter 2009)
version 1 after summer $2009:$ version 1 with
version 1 after summer 2009 : version 1 with
contours and road : draft version 2 with November
'09 extensions
2010 Easter draft version (loop closure ignored on
this version) : Easter 2010 extensions (dxf > pdf)
this version) : Easter 2010 extensions (d
after Easter 2010 : after summer 2010 :
after Easter 2011 : after summer 2011 : after
autumn 2011 (provisional - with Torben's DistoX file)
autumn autumn 2011: after February $2012:$ after
Easter 2013
Easter 2013
after Easter 2014 : after Easter 2015 : after summer
2015 : after Easter $2016:$ after Easter 2017 : (after
summer 2017) : amended after summer 2017
summer 2017) : amended after summer 2017
after January / February 2018 : after Easter 2018 : ${ }^{\text {after summer 2018: after Easter }}$ : 2017
after summer $2018:$ after Easter $2019:$ after
summer 2019 (Riaño connection) : after autumr
2020
after October 2021 : after Easter 2022 : after Easter
2023
On area survey : 4 Valleys System (Survex file
after Easter 2023)
Survex file : yes (after April 2022) (Amended
Survex file : yes (after April 2022) (Amended
magnetic declination December 2013 to align with
magnetic declination December 2013 to align with
Eur79 grid and coordinates altered to fit ETRS89
datum, April 2014.)
3234 with 4 Valleys System \& Torno (after Xmas
2023 ) : just $0105+3234$ linked after summer 2019
2023) : just $0105+3234$ linked after summer 2019
and almost
and almost linked again, October 2021. linked to
Fridge Door Cave (Easter 2023) : standalone : in the
Passage direction rose diagram: 1/7/2018
3235: shaft
San Antonio 30T 4457674801732 (Datum:
ETRS89. Accuracy code: A) Altitude 103 m
Length 14 m Depth 14 m
Area position
Updated July 3rd 2010
[The col between the two shakeholes is at $30 T$
04458744801933 ]
Twin shakeholes where the closest one to
the road slopes down to a vertical climb with
small holes descending too tight. The other
depression, immediately beyond the first,
has a split pitch of 14 m to a point where a
run in, probably from the first shakehole
blocks the cave. There is a small hole that
descends possibly another 7 m . This would
be a serious dig to progress. There was no
draught on the Easter 2009 visit.
Reference: anon., 2009a (Easter logbook)
Entrance pictures: yes
Underground pictures
Undergr
Video:
Video:
Detailed Survey
Detailed Surv
Line Survey:
On area survey
On area sur
Survex file
MATIENZO UNDERGROUND site descripioions (printed 1902/2024)
Volume 5 - page 22 An 8 m pitch in a 3 m wide, choked shaft.

Reference: anon., 2009a (Easter logbook) Entrance pictures: yes Underground pictures Video :
Detailed Survey : Line Survey On area surve
Survex file:

X
3237: cave
San Antonio 30T 4457364800894 (Datum: Length 52 m Depth 4 m
Area position
Updated 29th November 2009
An open entrance in a large, rock-sided shake. The hole is draughting and a calcited boulder blocked a possible way on. This boulder blocked a possible way on. This
obstacle was removed and the passage obstacle was removed and the pas
encounters a cross rift with a few encounters
formations.

Reference: anon., 2009a (Easter logbook); anon.,
2009d (autumn logbook)
Entrance pictures: yes
Underground pictures : yes
Video:
Detailed Survey :
Line Survey :
On area survey :
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.) coordinates altered to fit ETRS89 datum, April 2014. X
3238: cave
San Antonio 30T 4457074800888 (Datum: ETRS89. Accuracy code: G) Altitude 98m Length 4m

Updated 29th April 2012
A draughting cave which has an earth floor to dig. The site was excavated along a very to dig. The site was excavated along a very
low bedding at Easter 2012, but it requires a lot of work.

Reference: anon., 2009a (Easter logbook); anon., 2012b (Easter logbook) Entrance pictures: yes Underground pictures :

```
Video:
```

Detailed Surve
Line Survey:
On area surve
On area sur
Survex file
X

3239: cave
San Antonio 30T 4456814800942 (Datum:
ETRS89. Accuracy code: G) Altitude 102m ETRS89. Accuracy code:
Length 15 m Depth 4 m Length 15 m I
Area position

Updated 18th November 2017; 3rd January 2018; 5th, 6th June 2019

This $45^{\circ}$ sloping cave was 5 m long to a choke. The site is located in the top edge of a very large shakehole. It was probably seer again in October 2017 as site 23J with a gri
reference of 30 T 04456704800943 and again by another group which noted that it had a draught and looked a fairly easy dig. In April 2019 it took 45 minutes to create a way through the floor of the rift to another 5 m on the slope then 3 m horizontal to a choke and "quite a lot of bones" calcited into choke and "quite a lot of bones" calcited
the floor. Some of these (see photo), in the floor. Some of these (see
early June, were identified by early June, were identified by
palaeontologist Pedro Castaños as junvenile palaeontologist Pedro Castaños as junvenile
red deer or perhaps young cow. red deer or perhaps young cow.
corkscrewing, old calcited passage descending past a squeeze to a point where it is too small to continue.

## 3241: cave

## 3242: cave

San Antonio 30T 4464654801201 (Datum: ETRS89. Accuracy code: A) Altitude 147 m

A large shakehole with a small intermitten choked sink in it. Behind vegetation on the north side at the bottom, where the sloping sides meet the flat floor, are 2 small interconnected entrances with a small unexplored passage running off to the east. This may be passable by a small person from the eastern entrance.

Reference: anon., 2009a (Easter logbook) Entrance pictures: yes Video :
Detailed Survey
Line Survey
On area surv Survex file

## 3243: shaf

San Antonio 30T 4463184801185 (Datum: ETRS89. Accuracy code: G) Altitude 135 m Depth 5m Area positio

A narrow shaft in the side of the track several metres deep. The site would be too tight without a major dig.

Reference: anon., 2009a (Easter logbook) Entrance pictures: yes

```
Undergr
```

Video
Detailed Survey
Detailed Sury
Line Survey :
Line Survey
On area sur
On area sur
Survex file

## 3244: cave

A hole "logged" on the way to Cueva Cuatribú. There is no description.

```
Reference: anon., 2009a (Easter logbook)
```

Reference: anon.,
Entrance pictures:
Underground pictures
Video:
Detailed Survey
Line Survey
On area survey :
On area sur
Survex file :
X

3247: hole
La Colina 30T 4542484795377 (Datum: ETRS89. La Colina 30 T 4542484795377 (D
Accuracy code: G) Altitude 374 m Accuracy code
Area position

An undescribed hole.
Reference: anon., 2009a (Easter logbook)
Entrance pictures: Entrance pictures: Underground pictures Video:
Detailed Survey : Line Survey On area surve Survex file :

X
3248: hole
Muela 30T 453714 4796092 (Datum: ETRS89. Accuracy code: G) Altitude 485 m Area position

An undescribed hole.
Reference: anon., 2009a (Easter logbook) Entrance pictures: Untrance pictures:
Underground pictures Video :
Detailed Survey : Line Survey On area surve
Survex file : Survex file

X
3249: hole
Muela 30T 4537494796367 (Datum: ETRS89 Accuracy code: G) Altitude 464 m Area position

An undescribed hole.
Reference: anon., 2009a (Easter logbook) Entrance pictures: Underground pictur Detailed Line Survey : On area surve Survex file :

An undescribed hole.

```
Reference: anon., 2009a (Easter logbook)
Entrance pictures:
Underground pictures
Video:
Detailed Survey
Detailed Sur
Line Survey :
Survex file :
x
3251: hole
Muela 30T 454046 4795773 (Datum: ETRS89
Accuracy code: G) Altitude 490m
Area position
```

An undescribed hole.
Reference: anon., 2009a (Easter logbook)
Reference: anon.,
Entrance pictures:
Entrance pictures:
Underground pictures
Video:
Detailed Survey
Detailed Sur
On area survey :
Survex file :
X
3252: holes
Mullir 30T 455352 4796282 (Datum: ETRS89
Mullir 30T 455352 4796282 (Datur
Accuracy code: G) Altitude 635 m
Length 8 m
Area position

Updated 28th September 2012
Two entrances up off the track through vegatation; the left hand one is marked "CM". They were explored at Easter 2011 and found to be an 8 m long, stooping/hands and knees remnant with soft calcite on the
MATIENZO UNDERGROUND - site descriptions (printed $19002 / 2024$
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walls. There is also a "phreatic remnant sible near the base of a shakehole" about 100 m south of this site.

Reference: anon., 2009a (Easter logbook); anon., 2011b (Easter logbook) Entrance pictures: yes Undergr
Detailed Surv Line Survey On area surve
Survex file :

3253: shaf
Trillos 30T 4493984793709 (Datum: ETRS89. Trillos 30 T 4493984793709 (Dat
Accuracy code: G) Altitude 548 m Length 5 m Depth 5 m Length 5 m D
Area position

## Updated 10th November 2009

A large entrance under trees. The shaft is 5 m deep and ends in a slightly draughting over-tight rift.

Reference: anon., 2009a (Easter logbook); anon 2009c (summer logbook)
ntrance pictures: yes
Undergrol
Video:
Detailed Survey
Line Survey
On area survey
On area sur
Survex file

## 3254: shaft

Seldesuto 30T 4490464793657 (Datum: ETRS89 Accuracy code: G) Altitude 626 m
Length 105 m Depth 89 m
Area position
Updated 17th February 2011; 21st May, 1st October 2023

A large entrance in trees which looks similar to the nearby site 2796. The undescended shaft appeared about 6 m deep.

The site was dropped and surveyed in April 2023. A 6 m vertical entrance pitch off 2 trees lands on a rift descending at $45^{\circ}$. The lined route continues down over leaf mould, loose boulders and calcite / mud onthe walls for 25 m to the head of a p45, a straight drop with a deviation near the top. At the drop with a deviation near the top. At the base, a muddy pool drains into a over-tigh
rift. This would require significant capping rift. This would require significant capping and "doesn't seem too promising". The air is
much stiller in this area. It may be possible much stiller in this area. It may be possible to swing out on the pitch to follow the rift on a day with more draugh

Reference: anon., 2009a (Easter logbook); anon. 2011a (January, February logbook) Entrance pictures: ye
Video
Detailed Survey : April 2023
Line Survey
Line Survey :
On area survey :
Survex file : April 2023

3255: cave
La Rasa 30T 4489494793533 (Datum: ETRS89 Accuracy code: A) Altitude 677 m Length 37 m Depth 4 m
Area positior
Updated 5th November 2011; 19th February 2012

The entrance is about 7 m northeast of site 3167. The cave is mostly hands-and-knees crawling and becomes more damp towards the end of tiny joints at right angles to the passage. The two sites do not seem tc connect.

Reference: anon., 2011a (January, February logbook)
Entrance picture: yes
Underground picture(s): yes
Video: yes, (updated) with site 3167
Detailed Survey : yes, with site 3167
Detailed Survey : yes, with site 3167
Line Survey :
Line Survey:
On area survey :
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic declin
December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS 89 datum, April 2014.) with site 3167 (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.)
路

3256: cave
Mullir 30T 4554704795842 (Datum: ETRS89 Accuracy code: G) Altitude 639 m Length 5m Depth 2 m Area positio

Reference: anon., 2009a (Easter logbook)
Entrance pictures: 2009 and 2023 Underground pictures: yes 2023 Underground pictures : yes
Video: Video: Detailed Surve Line Survey On area surve
Survex file :
x
3257: cave
El Naso 30T 4508554796309 (Datum: ETRS89. Accuracy code: G) Altitude 323 m Accungth 5 m
Area position
A cave above a climb up in a nettle and bramble-filled rift. The cave chokes immediately.

Reference: anon., 2009a (Easter logbook)
Reference: anon., 2009
Entrance pictures: yes
Entrance pictures: yes

## Video:

Detailed Survey Line Survey On area surve Survex file :

X
3258: shaft
El Naso 30T 450871 4796344 (Datum: ETRS89. Accuracy code: G) Altitude 350 m Length 8 m Depth 8 m Area position

Updated 16th November 2009
A hole with an earth blockage right at the entrance. Beyond, there appears to be a 6 m drop. The earth blockage was removed in the autumn and a short slope leads to a series of rifts that are too small.

Reference: anon., 2009a (Easter logbook); anon., Reference: anon., 2009a
Entrance pictures: yes

```
derground picture: ye
```

Video:
Detailed Survey
ine Survey :
Survex file :
x
3259: cave
El Naso 30T 4511154796349 (Datum: ETRS89.
Accuracy code: G) Altitude 402 m
Length 15 m
Area position

Updated 10th November 2009
A large vestibule with a hands-and-knees crawl at the back. This passes a low widening on the right and leads to a standup spot just where the cave closes down. At this point there is a pool down on the left with bones. Bones (probably goat) are also scattered throughout the cave.

Reference: anon., 2009a (Easter logbook); anon., 2009c (summer logbook) 2009c (summer logbook)
Entrance pictures: yes
Underground pictures : yes

```
Video:
```

```
etailed
Line Survey :
```

On area surve
Survex file:
X

3260: shaft
N Vega 30T 4498994795895 (Datum: ETRS89 N Vega 30T 4498999 4795895 (Dat
Accuracy code: G) Altitude 248 m Accuracy code: G) Altitu
Length 25 m Depth 22 m Length 25 m
Area position

Updated 10th November 2009
An open shaft in woods. A 20 m roomy shaft is broken by a ledge 12 m down. A squeeze is broken by a ledge 12 m down. A squeeze
down at the bottom ends at a soakaway in down at the bottom ends at a soakaway in
calcite and gravel. calcite and gravel.

Reference: anon., 2009a (Easter logbook); anon., Reference: anon., 2009a
2009c (summer logbook)
Entrance pictures: yes
Underground pictures : yes
Detailed Survey : sketch
Detailed Surv
On area survey
Survex file :
x

3261: shaft \& cave
Hornedo 30 T 4491914801660 (Datum: ETRS89. Accuracy code: G) Altitude 101 m Length 106 m Depth 17 m Area position

Updated 10th November 2009; 7th October 2013; 24th May, 18th, 22nd November 2017

A path in the wood meets a more open area where the cliff face with a number of draughting holes is seen (see site 3915). MATIENZO UNDERGROUND - site descriptions (printed $19 / 02 / 2024$
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The obvious entrance is at the top of a short scramble part way up the face. A narrow slot leads down to the first chamber where a 10 m shaft drops in from the top of the scar. Down to the right, a walk over rubble enters a short crawl to a choked area. Back on the north wall, a short climb down over rocks enters a nicely developed passage with high level alcoves. Near the end (where the main level alcoves. Near the end (where the main
passage rises to a choke past a draughting passage rises to a choke past a draughtin
hole) a 2 m climb up to the north enters e) a 2 m climb up to the north enters The that close up
The whole area may repay furthe vestigation and excavation
The site was revisited at Easter 2017 and, in October 2017, a low crawl pushed off the base of the entrance slope (to the west and north) revealed 15 m of passage (not yet included in the length above) which draughted immediately to site 3915 when smoke was released. Reference: anon., 2009b (Whit logbook); anon.,
2009c (summer logbook); anon., 2017b (Easter logbook); anon., 2017d (autumn logbook) December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.)

3262: Concervera II, Cueva de San Miguel 30T 4561984796227 (Datum: ETRS89. Accuracy code: A) Altitude 398 m

## 3263 Callejón del Infierno.

## $\underset{\text { Areath positio }}{\substack{\text { Len }}}$

This shaft is on the east side and near the bottom of a shakehole. The shaft top was dug and is about 5 m deep to a mud floor. It comprises one solid wall and gaps in boulders. There may be a rift at the bottom.

Reference: anon., 2009d (autumn logbook) Entrance pictures: yes Video:
Detailed Survey Line Survey On area sur
Survex file :
x
3266: cave San Antonio 30T 4462094801532 (Datum: ETRS89. Accuracy code: G) Altitude 73 m
Length 3 m Length 3 m
Area position

A classic cave entrance but it unfortunately chokes after only 3 m . It may have been truncated a few metres away to the south, round the back of the bedrock it is situated in.

Reference: anon., 2009d (autumn logbook) Entrance pictures: yes Underground pictures : Video:
Detailed Survey Line Survey On area sur
Survex file

X
3267: dio
San Antonio 30T 4459084801220 (Datum: ETRS89. Accuracy code: A) Altitude 104 m Area position

South east of site 3268, Cueva Laberinto over the top of the current south east extremity of 3268. This site is in the bottom of a shakehole and is a rift aligned roughly $\mathrm{N}-\mathrm{S}$. This has had lots of bottles dumped in N -S. This has had lots of bottles dumpe
it and slopes down steeply to the south it and slopes down steeply to the south
(about 3 m deep) to a choke. Subsequently (about 3m deep) to a choke. Subsequently below this shake.

Reference: anon., 2009d (autumn logbook) Entrance pictures: yes Inderground pictures Video: Detailed Surve On area surve Survex file :

X
3268: Laberinto, Cueva San Antonio 30T 4458944801251 (Datum:
ETRS89. Accuracy code: G) Altitude 90 m Length 356 m Depth 10 m Area position

Updated 18th, 29th November 2009; 31st October 2010; 18th May 2011; 4th October 2015; 18th April 2016; 4th January 2018; 5th June, 25th July 2019

The cave was mainly explored over Whit 2009, then pushed and fully surveyed in the summer. A draughting hole found and then dug out into a labyrinth-type cave. The cave is developed under a thin sandstone bed anc is developed under a thin sandstone bec
consists mainly of infilled and reworked consists mainly of infilled and
fossil passages under this bed. The name says it all - Maze Cave. The 300 m of passage would fit under half a football pitch and it would be hanging about to take more than 15 minutes to get out from any point in the cave. Throughout the cave there
are passages completely choked with shaley are passages completely choked with shale sediments (marked C on the survey) and others, partly choked, that may dig. The survey (drawn and the survex file) and reality gives the impression that digging in most places would give an extension.

The excavated entrance is in a wooded shakehole at the top edge of a field. A crawl enters a low chamber with a number of holes. Ahead is a group of formations and the main way on is down to the left past ego shells (possibly brought in by a fox?) and then a descending rift where a small flow comes in during wet weather. A run-in and possible digs lie up to the left, while on the right is a shale slope that is taped off. (The floor is unusual consisting of shale-type material off the roof.) The small flow material off the roof.) The small flow
disappears into a small passage under the disappears into a small passage under the
lefthand wall that can be followed for a few lefthand wall that can be followed for a few metres to where it is too small. Up and out of the rift, straight ahead, a T-junction is met where the 2 main areas of the cave are reached.

The north east sector is entered to the eft, bypassing a group of formations and MATIENZO UNDERGROUND - site descriptions (printed 1900212024
entering walking-size, flakey-roofed passage
to the north east. Looking back views the other side of the grotto. Where the passage swings 90 degrees to the right, a small hole in a rift links to a passage beyond and a similar situation occurs when the passage survey). The head of a small, 3.5 m pitch is解 apter a short crawl. To the right is open, buldery aven
At the base of the pitch, the passage heads north east and, at a short climb up, a window through to a parallel rift on the right is reached. The route here heads back to the bouldery pitch area with bouldery sinks and possible digs en-route. Up to the left (south) appears to close in. Back in the mair passage, the rift closes in with a tiny hole down on the right. Above this, on the southeast wall, a bolted climb entered a completely choked passage that has been excavated to about 4 m . In October 2017, slurry slump had occured at the end of the dug passage. However, there was a draught to encourage clearance operations, so two and a half hours later the digger could stand up within a small, partly empty chamber with the draught coming in between spoi and the far wall.

A 4 m climb up on the north west wall (best laddered for those that follow) enters another series of passages. The straigh walking route to the north west has holes in the left wall that communicate with a
parallel, often deep, rift. Passages meet up at a large run-in that appears to truncate all the routes in this area. Digs to the north east here may bypass the chokes and find continuing passage.

The south sector is entered to the right where walking passage lowers, passing the
top of the taped-off shale slope and then top of the taped-off shale slope and the
encountering a T -junction. To the right, crawls choke up except for one that link back to the entrance chamber. To the left (east), a nice group of stal and thick straws is met on the left with another junction. To the north, passages choke, but the southern passage continues walking-size to a 4-way junction. To the right (west), crawling is required to enter a larger continuation tha chokes ahead. To the south, a step over a 3 m deep hole and a slope up to a T-junction has a choke to the right and a squeeze and short drop into a decorated, choked rift to the left.
Back at the 4-way junction, the eastern passage passes under a small collapse to enter a small chamber with a very low, wide passage back on the left and a crawl out past formations straight ahead. A squeeze down enters larger passage with a couple of digs (one near a small group of calcited gravel / cave pearls that was excavated in the autumn, 2009) and to the west a small draughting cross rift that links back to the 4-way junction.

At Easter 2011, three draughting digs were worked at. In the summer 2015, a short time was spent digging at the northwest corner: in November 2015 the dig "requires a snapper"

One visit occurred in April 2019 when the sand-choked, high-level passage off the big rift was worked at. After less than a metre this led to the base of a hading rift where one end sloped up to jammed calcited boulders and the other closed down beyond a small grotto (batch 3268-19-02). A dig in the roof has "all the hallmarks of a long. term dig". The cave was cleared and "case closed" for Maze Cave.

References: anon., 2009b (Whit logbook); anon., 2009c (summer logbook); anon., 2009d (autumn logbook); Corrin Juan, 2010 (survey); anon., 2010 (summer logbook); anon., 2011b (Easter logbook); Corrin Juan, 2013a; anon., 2015c (summe logbook); anon., 2016b (Easter logbook) (November
2015 logbook account pasted here); anon., 2017d (autumn logbook); anon., 2019b (Easter logbook); anon., 2019c (Whit logbook)
Entrance pict Entrance pictures: yes
Underground pictures : yes
Video : 2010 - wmy file
Video : 2010 - wmv file, 12 Mb or mpg file, 149 Mb
Detailed Survey : yes ( 2019 extension hot Detailed Survey : yes (2019 extension hot shown see Survex 3d
Line Survey :
On area survey :
Survex file : 2019 (Amended magnetic declination Survex file : 2019 (Amended magnetic deci
December 2013 to align with Eur79 grid and

```
December 2013 to align with Eur79 grid and 
```

x
3269: hole
Riaño 30T 4514924801493 (Datum: ETRS89. Accuracy code: G) Altitude 221 m

## Updated 16th February 2022

A little way below the road in a steep bank, a hole goes in through boulders

MATIENZO UNDERGROUND site descriptions (printed 1902/2024) Volume 5 - page 30
around the same horizon as some springs Unexplored but not inspiring. See site 0765. Reference: anon., 2009d (autumn logbook); anon. Reference: anon., 2009d (autumn Entrance pictures:
Underground pictures
Video:
Detailed Survey Line Survey On area surve
Survex file :
X
3270: Resurgence de Fuentes, Cueva (2020 (French: SCD)) Arredondo 30T 4509344792395 (Datum: ETRS89 Accuracy code: G) Altitude 303m Length included in site 1757 Area position

Updated 11th February 2016; 24th September 2018; 17th November 2022, 26th September 2023

According to Simonnot G, 2016, this site was linked to site 1757 in 2011. A water trace from here was positive in site 3278, $3 / 6 / 2023$. See the hydrology page. Reference: anon., 2009b (Whit logbook); Simonnot
G, 2016; Simonnot G, 2018; Simonnot G, 2022; G, 2016; Simonnot G, 2018; Sim
anon., 2023c (summer logbook)
Entrance pictures:
Entrance pictures:
Underground pictures
Video:
Detailed Survey
Detailed Surv
Line Survey:
On area surv
x

3271: Cenagosa, Cueva (2021 (French: SCD)) (Boueuse, Cueva)
Arredondo 30T 4510614792068 (Datum: ETRS89, Accuracy code: G) Altitude 268m Accurgth 10 m Area position

Updated 11th February 2016; 4th October 2017; 24th September 2018; 17th November 2022

Near a hut along the path up to the
Arredondo Fuentes. A spacious and muddy Arredondo Fuentes. A spacious and muddy
cave. The walls show the use of the wide cave. The walls show the use of the wide
entrance for livestock. entrance for livestock.
Documented by the SC Dijon, April, 1987. Reference: anon., 2009b (Whit logbook); Simonnot
G, 2016; anon., 2017c (summer logbook); Simonnot G, 2016; anon., 2017c (sum
G, 2018; Simonnot G, 2022
Entrance pictures: yes
Underground pictures : yes
Video:
Line Survey : On area surve
Survex file :
x
3272: Sumidero de Fuentes 2 (2027 (French: SCD)) (Perte 2 de Fuentes)
Arredondo 30T 4509144792330 (Datum: ETRS89 Accuracy code: G) Altitude 286 m ength 3 m Depth 1 m Area position

Updated 11th February 2016; 24th September 2018; 17th November 2022

A previous position was ETRS89 450926 4792393.

The information below has been roughly translated The information below has been roughly trans,
from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016 . Simonnot G, 2016.

At the bottom of a sinkhole that takes the stream coming from las Fuentes (sites SCD2018 / MCP1756, SCD2019 / MCP1757 SCD2020 / MCP3270). (April 1987) in El Regatón valley
Regaton valley.
It was excavated in October 2006 where progress stopped after three meters on a progress stopped after three meters on a
squeeze overlooking a sloping ledge of two or three meters. There is no obvious airflow except in winter when an outward air except in winter when an outward air
current was observed (February 2010) current was observed (February 2010)
together with a sound of water at the together with a sound of water at the
bottom. In low water conditions water bottom. In low water conditions water
disappears a few meters upstream from the cavity through an impenetrable slot.

Reference: anon., 2009b (Whit logbook); Simonnot Geference: anon., 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures: Underground pictures Video : Detailed Survey On Survey Survex file 4792309.

## 3274: LBT X, Torca (2029

## (French: SCD)

Arredondo 30T 4518504792930 (Datum: ETRS89 Accuracy code: G) Altitude 510 m Depth 40 m are not known

Reference: anon., 2009b (Whit logbook); Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance picture: ye,

3275: LBT 152, Torca (2030

## (French: SCD)

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Arredondo 30T 452405 4792075 (Datum: ETRS89
```

Accuracy code: G) Altitude 278 m
Depth 12 m
Area position

Updated 11th February 2016; 24th September 2018; 17th November 2022

## The information below has been roughly transla

 from the French,Above the Hoyo de Lledes. A 10 m shaft narrows down. This site has been explorec by the AEC Lobetum but the results are not known

Reference: anon., 2009b (Whit logbook); Simonno G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance picture

3276: shaft (2031 (French SCD)
Arredondo 30T 4516334793578 (Datum: ETRS89 Accuracy code: G) Altitude 629 m

Updated 11th February 2016; 24th September 2018; 17th November 2022

Reference: anon., 2009b (Whit logbook); Simonnot
G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entranc Inderground pictures Video : Detailed Survey Line Survey Survex file :
x
3277: Cumbre de Piluca, Torca de la (2033 (French: SCD)) (Sommet de Piluca, Torca du) Piluca 30T 4516444793790 (Datum: ETRS89. Accuracy code: G) Altitude 673m Length 12 m Depth 5 m Area position

Updated 11th February 2016; 24th September 2018; 17th November 2022

According to Simonnot G, 2016, the site position is ETRS89 04516354793787.

A 7 m diameter, 5 m deep shaft near the summit of Piluca. (Not descended?), Reference: anon., 2009b (Whit logbook); Simonnot
G, 2016; Simonnot G, 2018; Simonnot G, 2022 E, 2016; Simonnot Underground pictures
Under Video :

```
Detailed Surve
Line Survey
```

On area survey :
Survex file
X

3278: Barcena Morel, Fuente de (2050 (French: SCD))
Arredondo 30T 4519724791601 (Datum: ETRS89 Arredracy code: G) Altitude 152 m
Area position

Updated 23rd May 2015; 11th February 2016; 24th September 2018; 17th November 2022; 26th September 2023

According to Simonnot G, 2016, the site position is ETRS89 04519774791604.

An important, all-year-round, impenetrable spring. The water joins the Río Asón after 200 m . Catalogued for 'completeness'.

This was a site for OBA detectors at Easter 2015 when downstream Cueva Vallina was traced to Cueva Comellante. The site lies on private land and the owner is not very happy if permission to cross to the resurgence is not sought.

A positive test frpom site 1757 / 3270 was recorded on 3/6/2023. (See Hydrology page.)

Reference: anon., 2009b (Whit logbook); anon., 2015b (Easter logbook); Simonnot G, 2016;
Simonnot G, 2018; Simonnot G, 2022; anon., 2023 Simonnot G, 2018;
(summer logbook)
Entrance picture: yes
Underground pictures Underground picture
Video:
Detailed Survey: Detailed Surve
Line Survey : On area surve
Survex file :

X
3279: dig
Camposdelante 30T 4475124799850 (Datum: Camposdelante 30 T 445124799850 (Da
ETRS89. Accuracy code: G) Altitude 399 m ERS89. Accu
Area position

A shake hole on the col with small cliff on the north side. This blocked hole has a possible slight draught out. Two hours possible slight draught out. Two hours
digging at most would prove if a longer dig digging at most would prove if a longer dig was worthwhile. In the cliff face is some exposed white calcite crystals. This may indicate the line of the cliff is a fault/vein.
Reference: anon., 2009b (Whit logbook)
Entrance pictures: yes Entrance pictures: yes Underground pictures Video : Detailed Surve On area surve) Survex file

X
3280: Joe's Lost Cave
San Miguel 30T 4564684796681 (Datum: ETRS89 Accuracy code: M) Altitude 259 m
Area position

Updated 25th November 2009; 28th september 2012; 18th September 2021; 17th February 2022

A cave, "full of formations", first encountered in 1990 by Pete and Joe and then lost. The 1990 description reads: Insignificant hollow near large tree on

| MATIENZO UNDERGROUND - site descriptions (printed $190102 / 2024$ |
| :--- |
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hillside has cave about 100-150m long,
extremely well decorated, ends in stal extremely well decorated, ends in stal
barrier. Suggest calling it Cueva Bonito. barrier. Suggest calling it Cueva Bonito.
Hole at entrance drops into more stuff, draughting, needs digging out. This account provides an approximate grid reference of provides an approximate grid reference
(0) 456250 (47) 96750 which put it 300 m away from the well-written description an away from the well-written description sketch of the area in the 1992 logbook (Translates to ETRS89 0456148 4796541)
A search in the summer 2009 appeared to find the area on the ground that agreed with the logbook sketch. After searching over 2 days in July 2012, Joe reckons that it might be off another track, perhaps above Cueva de Cobrante.

Further extensive searching occurred in the further extensive searching occurred in the
summer, 2021 - to no avail. A reconaissance in early 2022 also failed to find the site. See 3 search tracks here

References: anon., 1990b (logbook); anon., 1991 (logbook); anon., 1992b (logbook); anon., 1998d
(log (logbook); anon., 2009c (summer logbook); anon.
2012d (summer logbook); anon., 2021c (summer 2012d (summer logbook); an
logbook); anon., 2022a (Janu

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Entrance pictures: possibly
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Undergr
Video :
Detailed Survey
Line Surve
On area sur
Survex file

## 3281: cave

San Antonio 30T 4476704801910 (Datum:
ETRS89. Accuracy code: G) Altitude 70 m ETRS89. Accuracy code:
Length 96 m Depth 8 m Area position

## Updated 18th November 2017

The entrance lies below the road in thick vegetation. A low entrance leads immediately to the head of a 4 m pitch that drops through a naturally excavated bed of cobbles at the base. A streamway passes under an aven and then becomes lower to a junction. Any water sinks straight ahead and to the right, a low passage closes in. To the north (left), walking-size passage becomes smaller, passes a low route on the right anc ends where routes become too small. There are possible extensions to be made on the left of this passage.

The low route is a flat-out crawl into a cobble-floored enlargement where the stream that enters is probably that seer sinking before. The passage is seen to continue low beyond a dig but there is no draught. This was enlarged in October 2017 gaining 2 m but more digging is required. There was also no draught on this occasion.

Across the valley is another stooping entrance that leads to about 30 m o passages that close in

References: anon., 2009c (summer logbook);
anon., 2017d (autumn logbook)

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Entrance pictures: yos
```

Underground pictures : yes
Video :
Detailed Survey : yes
Line Survey
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014 .)
3282: Santa Juliana resurgence,
Río
Hornedo 30T 4492064801526 (Datum: ETRS89.
Accuracy code: G) Altitude 92 m
Area position
Updated 24th May, 18th November 2017;
20th February, 12th, 30th May 2018; 20th
September 2019; 19th September 2021

The resurgence that feeds the Sante Juliana stream. There is no possible entry at water level but there is a possible dig above The water is reputed to come from Riañ but a source is site 3010 . The site was revited at Easter 2017 and in October dye trace was attempted from site 3010 which proved inconclusive. (But see below.)

In early February 2018, over a period with some heavy rain, optical brightener was detected here after 1 day from water sinking at site 4658, near Garzón, a straight line distance of 1.3 km and altitude difference about 95 m . (Other checked resurgences that proved negative were 4046 (Canastrillas), 3316 and 4046 .)
In early March, OBA was detected here from site 3010, taking 2 days or les On 12th May, 2018 OBA was put into the water at site 3566 and detected with a "clear positive" here on the 14th. There was MATIENZO UNDERGROUND site descripioions (printed 19/02/2024) Volume 5 - page 34
some moderate rain between those two
days. A detector in the River RiaÃ $\pm 0$ neal days. A detector in the River RiaÃ $\pm 0$ nea
the bridge at 30 T 0.449 .5294 .801 .033 remained negative. A background check was run before before, with both detectors negative. Detectors left in from the 14th to the 19th were also both negative. More details for these traces and a map More details for these traces and a
an be seen on the hydrology page.

In August 2019, a couple of under water digging trips were undertaken in the esurgence pool and one trip in the summer 2021, where a low, but passable, way on was revealed. The site now needs a diver to continue.

Link to entry in the Cave Diving Sump Index.

References: anon., 2009c (summer logbook)
anon., 2017b (Easter logbook); anon., 2017d anon., 201b (Easter logbook); anon., 2017d
(autumn logbook); anon., 2018a (January, February logbook); anon., 2018b (Easter logbook); anon
2019d (summer logbook) Entrance pictures: 2009 and 2018 : 2019 Entrance pictures: 2009 Viderground pictures : resurgence pool (YouTube) Detailed Surve On area surve Survex file
x
3283: Invisible Cave
San Antonio 30T 4465184801556 (Datum ETRS89. Accuracy code: A) Altitude 56 m Length 703 m included in the top entrance, Entrada res, site 329
Area position

Updated 31st October; 4th November 2010 19th, 27th May 2011; 29th April 2012; 7th October 2013; 24th May 2017; 7th January 1st July 2018; 8th January 2020

The entrance to this cave lies on the true ight bank of the río Aguanaz, about 10 m from the large resurgence cave. Even with many years of visiting this resurgence area, the obvious entrance to the cave had been ignored or assumed to be an overflow to Aguanaz cave. Invisible Cave could have been an inlet into the Fuente Aguanaz system before it cut back, but it is now an apparently separate system that heads upstream to the south east through deep water to a sump. A top entrance, Entrada Tres (site 3291), intercepts the stream passage before the sump. (An earlier grid reference - altered summer 2013 after the survey of Aguanaz main and second survey of Aguanaz main and second
entrances - was 30T 04466114801750 .)

Entrance 1 drops into chest-deep water with a walk to Room 306, where a 1.5 m step up provides a relatively dry area. Water bubbles up under this step. The crawling route forward leads to a pool that almost meets the roof and effectively seals off any further progress. On the first exploration, this pool was drained and 10 " depth of water removed with a submersible pump and a generator at the cave entrance. This allowed flat-out crawling between and beneath boulders into the continuing upstream passage

To allow a more permanent entry and exit, a boulder choke in the cave was located and boulder choke in the cave was locate excavated on the surface. This fairly
precarious, bouldery climb down is the second entrance and enters the cave upstream of the pool and boulders. The entrance collapsed when a team was exiting the hole after the summer 2010 dive. It may need re-excavating. Beyond here, the cave is mainly hands-and-knees crawling past and over gravel banks that enlarges after passing under bone breccia in the roof and run-ins on the left to a substantial stream passage. Just beyond, about 100 m from the second entrance, a deep pool is met and a draughting duck under the left hand wall (now lined) is required. (This duck was lowered by digging out consolidated sediments downstream in the larger section.)

The passage beyond has waist- to neck deep water in gloomy phreatic passage unti cobbles and boulders in a rift provide a cobbles and boulders in a rift provide a
respite. Climbing up the boulders in the rift respite. Climbing up the boulders in the 14 where, on the initial ends at "station 14 where, on the ir exploration, a climb up a narrow rift
continued above. This is the entry point for continued above. This is the entry point for the third entrance (Entrada Tres, site 3291) detailed below. Continuing in the deep wate to the right of the rift for 60 m meets a "dead end" in neck-deep water. A possible continuation upstream was detected under the eastern wall. This sump was dived in 2010.

The first upstream sump 1 drops down about 3m then, immediately, rises into an MATIENZO UNDERGROUND - site descriptions (printed $19 / 02 / 202$
free-dived with care". After 6 m the passage
snlits with an inlet from the north endina at splits with an inlet from the north ending at
a small sump after 10 m . About 20 m beyond a small sump after 10 m . About 20 m beyond
the junction sump $\mathbf{2}$ is encountered which starts with a blind airbell and continues with an open sump. The log book account of the second dive through the sump can be found here.
here
The second sump was dived by Chris Camm for 10 m in April 2010 and left open and going
Sumps 2 through to 8 were dived at Easter 2012 by Dan Hibberts and Martyn Grayson. The dive report covers diving these sumps. Sump 2 is 10 m long and 2.1 m deep. At the other side, the passage continues for 150 m . Three large avens are passed, one of which has a large inlet 15 m above the floor of the passage. Sump $\mathbf{3}$ is 15 m in length and
2.1 m deep and a fairly simple dive. Beyond sump 3 a large aven was found almost
immediately and around 25 m of passage to sump 4.
Sump 4 looks possible to bypass by climbing a slope on the right side of the sump where a large ascending unexplored passage can be seen. Sump 4 is 5 m long and 2 m deep before surfacing in a sump pool in a rift which is 5 m long to where the poot in a rift whic
Sump 5 An eel has been met in this sump It is 10 m long and 2 m deep surfacing into 50 m of large stream passage ending at

Sump 6 descends steeply down a muc slope. A depth of 5.1 m reached at the base of a vertical pot. Rising here surfaces in a cross rift which is no more than 5 m long before the next sump
Sump 7 is 6 m long and 1.9 m deep surfacing at the foot of large aven and another sump.
Sump 8 had green leaves and twigs floating on the surface just below an aven when first inspected. This sump has been dived 15 m to a depth 6.6 m where the line ran out. Sump 9 was pushed at Easter 2017 by Jim Lister and Dan Hibberts but found blocked by gravel on a steeply descending slope. The site was excavated by "rabbit kicking" and it may be possible to pass. However
both divers had stomach problems in the night confirming bad pollution in the water (The account of day $2(19 / 4 / 17)$ trying to pass sump 9 is in the autumn 2019 pass sumf
logbook.)

The third entrance at site 3291 is a 15 m pitch that narrows near the bottom before pitch that narrows near the bottom before
breaking out into the rift. This has proved breaking out into the rift. This has proved
awkward to pull gear up. The pitch lands on a steep slope of rubble. Up slope ends at a tiny passage in the right wall and straight down the slope chokes. However, just off to e right, in tall passage, a step over a lip and 2 m mimb down to a rubble slope ander to small chamber that chokes straight ahead. the left a short, but steep, bouldery slope intersects a cross rift that needs
investigating in both ends at high level. A ladder climb down the rift (p5) encounters "station 14" in Invisible Cave and a bouldery climb down to the stream. Down-slope from the entrance pitch, just before the second drop on the right, is a step up on the right. This enters passage that turns back and passes a display of tree roots and a short, slippery back-and-foot traverse over a pit. The narrow passage traverse over a pit. d ne narrow passage stal in the roof bedding. At the base, a shuffle through pools leads to a squeez shuffle through pools leads to a squee past a small column into a decorated chamber with holes in the floor. Down to the left is a chamber with an aven and 2 m deep bouldery drop.

A diagram of the hydrology of the San Antonio - Hornedo - Cobadal area drawr after Easter 2011 can be found here.

Link to entry in the Cave Diving Sump Index.

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\begin{array} { l } { \text { References: anon., 2009c (summer logbook);} } \\ { \text { anon., 2009d (autumn logbook); Corrin Juan, 2010} } \end{array}
(photo); anon., 2010c (summer logbook); Corrin
(puan, 2011; anon., 2011b (Easter logbook); anon.,
2012b (Easter logbook); Corrin Juan, 2013a; anon
2017b (Easter logbook); anon., 2019e (autumn
Entrance pictures: 2009, including working on the
2nd entrance
Underground pictures : 2009 (also see Entrada
Tres photos): 2010:2011 Easter:2012 Easter
Video : yes (10Mb,3min): in sump 4 and 5, Easter
2012: capping at, the second sump 4 and 5,
(YouTube)
Detailed Survey : 2009:2010:2011 (Easter).
Line Survey
On area survey
Survex file : yes (Easter 2012) (Amended magnetic
declination December 2013 to align with Eur79 grid
Passage direction rose diagram: 1/7/2018
```

References: anon., 2009c (summer logbook)
Entrance pictures: yes Entrance pictures: yes Underground pictures : yes
Video Video :
 Detailed Sury
Line Survey On area surve
Survex file :
Survex file :
x
3285: cave
El Naso 30T 450910 4796461 (Datum: ETRS89. Accuracy code: G) Altitude 433 m Length 3 m Depth 2 m Area position

A 2 m drop into a 3 m long, tiny "chamber" References: anon., 2009c (summer logbook)
Entrance pictures: yes Entrance pictures: yes Underg
Detailed Survey
Line Survey : Line Survey On area surv
Survex file :
x
3286: dig
Hornedo 30T 4481324800793 (Datum: ETRS89. Accuracy code: A) Altitude 148 m Accuracy
Area position Depth 20 m Area position

Updated 30th April 2013; 7th January 2018
An old cold store with a good draught below a house. This is in the same large and one of the sites may be a future top and one of the sites may be a future top entrance. This site was excavated through
sandstone boulders to where progress is sandstone boulders to where progress is
down small rifts. Communication from within down small rifts. Communication from withi
Torca la Vaca is required. Excavation has Torca la Vaca is required. Excavation h
been mainly by a French team from been mainly by a French team from

ThIMES.
The account of the final digging session from the logbook states: The French team started clearing out the area just inside the entrance, then the blockage before the first 2 or $3 m$ drop. This went to a small chamber with two ways off. One was a rift passage /
crawl getting too small, the other was a 4 m crawl getting too small, the other was a 4
drop under some boulders, where the drop under some boulders, where the
draught was coming from. The boulder was smashed and we dropped to another dig. This went to another chamber created in limestone under sandstone beds which had then split and fallen in. Under these beds a number of rifts / pitches unite but become too narrow.

After another visit at Easter 2013: "The dig under the dodgy hanging sandstone boulders looks good. Also the crawl going of from the initial chamber looks interesting."

References: anon., 2009c (summer logbook);
Corrin Juan, 2010:' anon., 2013b (Easter logboo Corrin Juan, 2010;; anon., 2013b (Easter logbook) Entrance pictures: summer, 2009 Underground pictures

```
Video:
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Detailed Survey
Line Survey
Line Survey :
On area survey
Survex file :

X
3287: dia
Cubija 30T 4506534796450 (Datum: ETRS89 Cubija 30T 4506534796450 (Datu
Accuracy code: G) Altitude 345 m Length 4 m
Area position
Are
A 4 m hands-and-knees crawl to a possible dig into visible passage. [This site was found near the old position of site .
References: anon., 2009c (summer logbook) Entrance pictures: yes
Underground pictures Underground pictures Video:
Video:
Detailed Survey :
Line Survey : Line Survey On area surve
Survex file :

X
3288: shaft
El Naso 30T 451228 4796351 (Datum: ETRS89. EI Naso 30T 451228 4796351 (Dat
Accuracy code: G) Altitude 427 m Depth 6 m
Area position

A small top to a larger shaft. The top will need enlarging before entry is possible

References: anon., 2009c (summer logbook) MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
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## Entrance pictures:

An excavated hole that drops 5 m in a An excavated hole that drops 5 m in a
sloping passage. Draught seems to be sloping passage. Draught seems to be but boulder stabilisation is required before but boulder stabilisation is required
any more digging can be carried out.

```
References: anon., 2009c (summer logbook)
```

Entrance pictures: 2009
Underg
Video :
Dideo :
Line Survey
On area surv
Survex file

## 3291: Entrada Tres

## San Antonio 30T 4466114801430 (Datum

 ETRS89. Accuracy code: G) Altitude 94 mLength 704 m Depth 46 m Length 704m Depth 46 Area positio

Updated 7th January, 1st July 2018
The third entrance to Invisible Cave, site 3283. The description and survey for the shaft has been incorporated into that site's account and survey, but photos can be linked to below. Entrada Tres was discovered and partly explored in the summer then linked to the cave below in the autumn of 2009.

The entrance is up on the heavily vegetated side of a valley, with a number of depressions.

A 15 m pitch narrows near the bottom before breaking out into the rift. This has proved awkward to pull gear up. The pitch lands a steep slope of rubble. Up slope ends at a a steep slope of rubble. Up slope ends at a tiny passage in the right wall and straight down the slope chokes. However, just off to the right, in tall passage, a step over a lif meets a 4 m pitch down to a rubble slope and 2 m climb down the side of a boulder to a small chamber that chokes straight ahead. To the left a short, but steep, bouldery slope intersects a cross rift that needs
investigating in both ends at high level. A ladder climb down the rift (p5) encounters "station 14" in Invisible Cave and a bouldery climb down to the stream.
Down-slope from the entrance pitch, just before the second drop on the right, is a step up on the right. This enters passage that turns back and passes a display of tree roots and a short, slippery back-and-foot traverse over a pit. The narrow passage deepens forcing a 6.5 m pitch, belayed from stal in the roof bedding. At the base, a shuffle through pools leads to a squeeze shuffle through pools leads to a squee past a small column into a decorated chamber with holes in the floor. Down to the left is a chamber with an aven and $2 m$ deep bouldery drop.
References: anon., 2009c (summer logbook);
anon., 2009d (autumn logbook); Corrin Juan, 2010 anon., 2009d (autumn log
Entrance pictures: 2009

## A 2 m long, choked cave about 90 m to the west-south-west of Cueva-Cubío de Llanío.

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References: anon., 2009c (summer logbook)
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Entrance pictures: yes
Underground pictures
Undergr
Video
Detailed Survey
Line Survey
On area surve)
Survex file
X
3293: cave
3293: Cave
El Naso 30T 451634 4796762 (Datum: ETRS89.
El Naso 30T 4516344796762 (Dat
Accuracy code: G) Altitude 353 m
Accuracy cod
Length 2 m
Area position
A 2 m long through-trip.
References: anon., 2009c (summer logbook)
References: anon., 200
Entrance pictures: yes
Entrance pictures: yes
Video:
Detailed Survey
Line Survey
On area survey :
Survex file
X
3294: dia
El Naso 30T 4516414796749 (Datum: ETRS89.
El Naso 30T 4516414796749 (Dat
Accuracy code: G) Altitude 358m
Accuracy code
A cave that needs a rock flake breaking.
References: anon., 2009c (summer logbook)
Entrance pictures: yes
Undergro
Video :
Detailed Survey
Line Survey
On area survey :
Survex file :
x
3295: shaft
Muela 30T 4546844796032 (Datum: ETRS89.
Accuracy code: G) Altitude 645 m
Area position

An undescended shaft with a triangular fence.
References: anon., 2009c (summer logbook)
Entrance pictures: Entrance pictures: Underground pictures Video : Line Survey : On area surve Survex file :

X
3296: hole
Muela 30T 4551654796279 (Datum: ETRS89. Muela $30 T 4551654796279$ (Datur
Accuracy code: G) Altitude 661 m
Area position
Updated 28th September 2012
A hole in the track up to the Hoya de Yusa. The site could not be found in the GPS position in 2012.

References: anon., 2009c (summer logbook); anon., 2012d (summer logbook) Entrance pictures: Underground pictures Video:
 Line Survey :
On area surv Survex file :
x
3297: cave
Camposdelante 30T 4474804799271 (Datum: ETRS89. Accuracy code: G) Altitude 327 m Length 52 m Area position

Updated 3rd July 2010
The cave is described from the northern entrance, entrance 1 on the survey. A large walk-in opening in a sandstone outcrop. Dry sandy passage with rift enters on left. Ahead is step over boulders to the head of a blind 7 m , damp pitch. Rift head of a blind 7 m , damp pitch. Rift
entering on left can be entered at roof entering on left can be entered at roof
height with an easy traverse on fragile height with an easy traverse on fragile
ledges. The rift has a dry sandy floor. There ledges. The rift has a dry sandy floor. There
are entrances at the far end of rift. Easy are entrances at the far end of rift. Easy
egress for quick through trip via middle egress for quick through trip via middle
entrance, while the furthest entrance is entrance, while the furthest entrance is
mainly collapsed. mainly collapsed.

At Easter 2010 the "second entrance" was GPS'd to 0447582 4799480; "third entrance" to 04475684799471 . This all needs checking out when the Survex file has been produced from Therion data. The original GPS may be wrong

References: anon., 2009c (summer logbook) Entrance pictures MATIENZO UNDERGROUND - site descriptions (printed $19002 / 2024$
Volume 5 - page 39 Volume 5 - page 39

Underground pictures:
Video:

Updated 30th April 2013
Just to the right of the entrance is a sink taking flood overflow from site 3800. A 2.5 by 1.5 m entrance enters a 4 m stoop to a by 1.5 m entrance enters a 4 m stoop to low chamber with a 5 m siope down to a
deep sump pool. It possibly connects with deep sump pool. It possibly connects with
site 0103, Cueva de Espada. To the left, up site 0103, Cueva de Espada. To the left, up
a short slope, a sandy choke was dug into at a short slope, a sandy choke was dug into
Easter 2013 into a small chamber with no Easter 2013 into
obvious way on.

After a surface survey, the position was changed from 30T 4511014800931 ETRS89: 30T 4509994800722 to that shown above

Link to entry in the Cave Diving Sump Index.

References: anon., 2009c (summer logbook); anon., 2013b (Easter logbook) Entrance pictures: Underground picture: Video
Detailed Survey : sketch of cave and nearby holes Line Surve
On area sul On area sur
Survex file

X
3300: shaft
Hornedo 30T 4484154800493 (Datum: ETRS89 (

Area position
Updated 17th July, 31st October 2010; 23rd May 2015

An alternative grid reference is ETRS89 30 T 04484004800500 . A complicated system that appears to be heading straight for Torca la Vaca along a rift.

The entrance is a small, steeply descending, strongly draughting tube with bolts in the rock face at the top. This opens up a short distance down onto the first pitch. Originally descended on ladders, this was re-rigged for SRT in 2010 to avoid the worst of various suspect wedged boulders. At the foot of the pitch, one way leads down p3, p6, p12 and p6. (Description required of these. The other way is a short drop (bolt required) leading to a 6 m pitch ( 50 m rope required from entrance to foot of this.) At the bottom a squeeze under the left hand wall leads to loose chamber with various holes in the floor all doscended and becoming too tig at $10-15 \mathrm{~m}$ depth. The final hole has been traversed over to a stal choke. The draugh traversed over to a stal choke. The draugh appears to go up an ave
al hole
Back at the squeeze under the wall, going left leads up a series of crawls and climbs ending at an 9.75 m pitch. At the foot of the 6 m pitch, a short passage leads to a route on the right - description Pedro? - while climbing up through boulders leads to draughting chokes and a connection to the series of crawls and climbs.

References: anon., 2009c (summer logbook);
anon., 2010b (Easter logbook); anon., 2010c anon., 2010b (Easter logbook); anon., 20
(summer logbook); Corrin Juan, 2011 (summer logbook); Corrin Juan, 201 Entrance pictures: yes
Underground pictures : yes (2009 \& 2010) Video
Detailed Survey : yes (2009 plan \& projected section, 2-page pdf) : yes (2010 plan \& projecte section, 2-page pdf) : yes (2010 modified pla

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Monarea surve
Survex file
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3306: dig
Hornedo 30T 4480054800731 (Datum: ETRS89.
Accuracy code: A) Altitude 177 m
Accuracy code
Area position
A dig / slot with a good draught.
References: anon., 2009c (summer logbook)
Entrance pictures:
Underground pictures
Video :
Detailed Survey
Detailed Sur
Line Survey
Line Survey
On area sury
Survex file:
Survex file
3307: shaft
Bosmartín 30T 4504044797432 (Datum: ETRS89
Accuracy code: G) Altitude 505 m
Depth 4 m
Area positior
An overgrown shaft with a tree, about $2 m$
wide and 4 m deep. Undescended.
References: anon., 2009c (summer logbook
Entrance picture: yes
Underground pictures
Video :
Detailed Survey
Line Survey
On area survey
Survex file
3308: dig
S Vega 30T 4509874795506 (Datum: ETRS89
Accuracy code: G) Altitude 188 m
Accuracy code
Area position
A 5 m wide entrance into an overhang and a crawl across to a possible way on by digging up a slope. No real draught

References: anon., 2009c (summer logbook) Entrance picture: yes Entrance picture: yes
Underground pictures Video
Detailed Survey Line Survey : On area surv Survex file

## 3309: Surprise Cave

S Vega 30T 4513974795428 (Datum: ETRS89 Accuracy code: G) Altitude 198 m

Updated 31st October 2010; 21st
September 2022
A small hole at the foot of a rock face enters a 2 m drop into a small chamber. This leads down a steep slope of loose debris to where a stream enters from beneath massive boulders, presumably the stream which sinks at site 0178 and which is seen again in site 0477 . The passage continues walking size, with steep slopes up on the left to a "terrace", with a number of choked inlets. The main passage suddenly gets smaller and ends in an overtight crawl.

While surveying out, at station 4, a tight rift passage runs at right angles into the hill passage runs at right angles into the hil This has been followed for about 20 m in
tight rifts, with a separate stream running tight rifts, with a separate stream runnir
parallel to the main passage. Digging is parallel to the main passage. Digging required at the current end and th
References: anon., 2009c (summer logbook);
anon., 2010c (summer logbook); Corrin Juan, 2011;
anon., 2010c (summer logbook);
anon., 2022c (summer logbook)
Entrance picture: yes
Underground pictures : 2010 and 2022
Video :
Detailed Survey : yes
Detailed Sur
Line Survey :
On area survey :
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.
x
3310: cave
S Vega 30T 4506524795361 (Datum: ETRS89
Accuracy code: G) Altitude 289 m
Length 2 m
Updated 18th September 2021; 21st September 2022

A 2 m long cave uphill and to the west of the water tank beyond the shallow valley to Cefrales. To the west and on the same scar line as site 1460 .

References: anon., 2009c (summer logbook); anon., 2021c (sur
(summer logbook MATIENZO UNDERGROUND site descripioions (printed 19002/2024) Volume 5 - page 42

Entrance picture: 2020, 2021
Underground pictures:

3311: shaft
S Vega 30T 453042 4794365 (Datum: ETRS89 S Vega $30 T 4530424794365$ (Dat
Accuracy code: G) Altitude 408 m Depth 4 m Area position

An undescended, narrow shaft
References: anon., 2009c (summer logbook)
Entrance picture: yes
Entrance picture: yes
Underground pictures
Video :
Detailed Survey
Line Survey
On area survey :
Survex file :
X
3312: shaft
S Vega 30T 4530444794351 (Datum: ETRS89
S Vega 30T 453044 4794351 (Dat
Accuracy code
Area position
A undescended shaft in clints that widens
A undescendec
further down.
References: anon., 2009c (summer logbook)
Entrance picture: yes
Video:
Detailed Survey
Line Survey
On area survey
Survex file :
x

## 3313: shaft

S Vega 30T 4530784794207 (Datum: ETRS89. Accuracy code: G) Altitude 433 m Area position

A undescended shaft in clints.
References: anon., 2009c (summer logbook) Entrance picture: yes Underground pictures Video : Line Survey : On area survey Survex file :

X
3314: shaft
S Vega 30T 4531414794332 (Datum: ETRS89. S Vega 30T 453141 4794332 (Datu
Accuracy code: G) Altitude 393 m
Area position

A undescended shaft in clints with a mountain ash tree.

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References: anon., 2009c (summer logbook)
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Underground pictures
Video :
Detailed Survey
Detailed Su
On Survey surv
Survex file :
X

3315: Other Alum Pot, The San Antonio 30T 4467104800704 (Datum
ETRS89. Accuracy code: A) Altitude 197 m Length 40 m Depth 20 m Area position

Updated 25th November 2009
Large open pot with no unaided route down. Approx $16-20 \mathrm{~m}$ deep depending which side is descended. $15 \mathrm{~m} \times 20 \mathrm{~m}$ diameter ellipse. Walls mainly large sandstone blocks coverec in very loose undergrowth, the top half of in very loose undergrowth, the top half of
which consists of the inevitable brambles. which consists of the inevitable brambles. Floor of pot a trifle humid, covered in large boulders and rotting fallen trees which makes locating potential leads virtually impossible. No obvious draughts on very hot day.
The 'original' Alum Pot is site 3118
References: anon., 2009c (summer logbook) Entrance picture: yes

## Video :

Detailed Survey
Line Survey:
Line Survey On area surve
Survex file :
x
3316: resurgence
Riaño 30T 4507484801194 (Datum: ETRS89 Accuracy code: G) Altitude 110 m
Length 25 m Length 25 m

## Area position

Updated 20th February 2018
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This is an open resurgence with a Unfortunately, it becomes too tight 3 m in.
A dig, a few metres to the left of the resurgence, gained entry to about $25-30 \mathrm{~m}$ of hands-and-knees crawling, with a number of branches all ending in pools of water with no way on.

In early February 2018, over a period with some heavy rain, optical brightener was injected into site 4658, near Garzón. The OBA was not detected here but was detected at site 3282, Santa Juliana. More details and a map can be seen on the hydrology page.

References: anon., 2009c (summer logbook); anon., 2018a (January, February logbook) Entrance picture: yes Underground pictures
Video :
Detailed Survey Line Survey On area su
Survex file [GPS readings of 30 T 4496744794731 and $30 T$
4495724794522 are way out. The above grid reference is from the map.]

A wet weather stream sink

3321: dig Accuracy cod
Area position

A draughting hole near a barn.
References: anon., 2009c (summer logbook)
Entrance picture : yes Entrance picture: yes Video:

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Detailed Sur
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Line Survey
On area survey :
Survex file :
x

3322: sink
S Vega 30T 4516064794348 (Datum: ETRS89. Accuracy code: G) Altitude 487 m
Area position Area position
A draughting sink.
References: anon., 2009c (summer logbook) Entrance picture: yes : Video :
Line Survey :
On area surve
Survex file :
x
3323: shaft
S Vega 30T 4512324794883 (Datum: ETRS89.
Accuracy code: G) Altitude 435 m Accuracy code: G) Altitude 435 m
Depth 9m
Area position
A narrow, undescended, 9 m deep shaft in clints.
References: anon., 2009c (summer logbook) Entrance picture

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Underground pictur
```

Video :
Detailed Survey
On area surv,
Survex file :
x

3324: cave
S Vega 30T 4512464794785 (Datum: ETRS89. Accuracy code: G) Altitude 470 m
Area position
A small cave where it is possible to see 2 m under boulders.

References: anon., 2009c (summer logbook) Entrance picture: Underground pictures Video:
Detailed Survey Line Survey On area surve
Survex file :
x
3325: shaft
N Vega 30T 449255 4796001 (Datum: ETRS89. Accuracy code: G) Altitude 397 m Length 8 m Depth 5 m Area position

This shaft is $20-30 \mathrm{~m}$ down the valley from Cueva del Bosque, site 0373. A 5m drop ends in a $3 \times 1 \mathrm{~m}$ rift with tiny fissures leading off.

References: anon., 2009c (summer logbook) References: anon
Entrance picture: Entrance picture:
Underground pictures
Video: Video:
Detailed Survey :
Line Survey : Line Survey On area survey : Survex file :

X
3326: diq
Riaño 30T 4519114801129 (Datum: ETRS89 Riaño 30T 451911 4801129 (Datu
Accuracy code: G) Altitude 287 m Accuracy code
Area position

This site is just a few metres north of a circular water tank marked on the map. A circular water tank marked on the map. A
slightly draughting dig under a sandstone bed, 1.5 m wide with rubbish in.

References: anon., 2009c (summer logbook) Entrance picture

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Video :
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\[
\begin{aligned}
& \text { Detailed Surv } \\
& \text { Line Survey : }
\end{aligned}
\]
```

$$
\begin{aligned}
& \text { On area survey: } \\
& \text { On are }
\end{aligned}
$$ Survex file :

x
3327: shaft
La Rasa 30T 4489004793672 (Datum: ETRS89. Accuracy code: A) Altitude 610 m
Length 9 m Depth 9 m Length 9 m Depth 9 m Area position

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A rift in the cliff face that draughts out. A
9 m nitch is choked and the drauaht is lost 9 m pitch is choked and the
[The grid reference is a guess].

References: anon., 2009c (summer logbook) Entrance pictures: yes

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Underground picture
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Video
Detailed Survey
Line Survey
On area surv
Survex file

3328: shaft
La Secada 30T 4534644798632 (Datum: ETRS89 Accuracy code: G) Altitude 410 m
Accuracy Co
Depth 5 m
Area positior

A tight slot down on the uphill side of the widened road to Llueva that requires enlarging.

References: anon., 2009d (autumn logbook) Entrance pictures: yes

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Underground pictures:
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Video :
Detailed Survey
Line Survey
On area survey
On area sur
Survex file
3329: cave
Llueva 30T 4537614798278 (Datum: ETRS89.
Llueva 30 T 4537614798278 (Da
Accuracy code: G) Altitude 388 m
Depth 2 m
Area position
A road drain swallet that is probably choked
A road dra
2 m down.
References: anon., 2009d (autumn logbook)
References: anon.,
Entrance pictures: yes
Underground pictures
Video :
Detailed Survey
Line Survey :
On area survey
On area sur
Survex file
3330: cave
Llueva 30T 453773 4798382 (Datum: ETRS89,
Llueva 30 T 4537734798382 (Da
Accuracy code: A) Altitude 380 m
Accuracy cod
Length 3 m
Length 3 m
Area positio
A small cave above the road has a wate
tank built into the floor
References: anon., 2009d (autumn logbook
References: annes.,
Entrance pictures: yes
Underground pictures
Video :
Detailed Survey
Line Survey:
On area surve
Survex file
3331: dig
Llueva 30T 454300 4797922 (Datum: ETRS89,
Accuracy code: A) Altitude 283 m
Length $2 m$
Area positio

A cold store above the road with a slight draught. The whole structure is man-made draught. The whole structure is man-made
and built like a beehive with rubble walls and built like a beehive with rubble v
and roof. Digging would be difficult.
References: anon., 2009d (autumn logbook
Entrance pictures: yes
Underground pictures
Video
Video:
Detailed Survey
Line Survey
On area survey
Survex file

3332: Bendito Pantin, Torca Llueva 30T 4549734798427 (Datum: ETRS89 Accuracy code: G) Altitude 197 m
Length 12 m Depth 10 m
Area position
Updated 7th October 2012; 24th June 2022
This hole is high above the road at a wide bend that used to contain a depression, now filled with road-works material. The tight, oval hole has been explored down a tight shaft to a depth of 10 m by ADEMCO in 2010. The site was, and may still be, partly covered by dissected lump of limestone. Marked AD-2
[ADEMCO grid reference is ED50 0455070 04798634]

References: anon., 2009d (autumn logbook); References: anon., 200 s
ADEMCO, $2012 \mathrm{pp} 11-12$ ADEMCO,
Entrance pictures: yes : ADEMCO, 2012 p11
Underground pictures: Length 89 m Depth 13 m Area position

Updated 5th, 8th June 2019
A depression, completely filled with bamboo, has a small entrance 4 m up one side with a strong draught. To the left, there is a soil slope leading past a small, blocked tube, to a passage that chokes. Before the choke there is a tight, vertical rift.

To the right of the entrance, a low crawl leads to a 7 m pitch. At roof level a wide rift at right angles appears to close down after 6 m . At the pitch base, a rift with a lensshaped hole at eye level leads to a cross rift The right leads to a small, choked chamber after 2 m ; the left leads to another tight rift after 2 m ; the left leads to another tight rift
where the draught descends. Stones appear where the draught descends. Stones
to drop another 10 m but there is no to drop another 10 m

Back at the pitch base, a low crawl of $2 m$ Back at the pitch base, a low crawl of 2 m
leads to a walking-size rift visible from the leads to a walking-size rift visible from th
top. This closes down after 6 m . Half way across the a rift (which is a continuation of the draughting rift) leads off tightly for 10 m to a calcited boulder blockage which may yield to persuasion.
In April 2019, it was noted that the draught comes up a p8 - a very tight rift that would need capping all the way down. A blocked passage near the entrance gave 2 m of passage before closing in.

References: anon., 2009d (autumn logbook); anon., 2019b (Easter logbook) Entrance pictures: yes Underground pictures Video :
Detailed Survey Line Survey On area survey :
Survex file : April 2019 Torca)
Llueva 30T 4542964798398 (Datum: ETRS89. Accuracy code: A) Altitude 240 m Length 71 m
Area position

Updated 29th January 2010; 18th February 19th May 2011; 16th May 2012; 24th May 19th May 2011; 16th May
2014; 17th February 2022

A road-side hole that was revealed by the roads works to improve the Fuente las Varas to San Miguel de Aras stretch. The entrances have chains across. Two holes right by the side of the road have yet to be capped (February 2011). The right hand hole is dangerous; the left hand one has been descended. Both holes lead directly to the main pitch.
On the December 26th 2009 survey trip, the top of the drop was laddered and the remaining p27 descended using rope. At the base there are lots of mud and small rocks probably from the road works as the hole was opened up. A drop at the west end into a rift has a very small continuation, with no apparent draught
A climb up some 8 m reaches a rift to a A climb up some 8 m reaches a rift to a
parallel small shaft, less than 1 m wide at parallel small shaft, less than 1 m wide at
the top. This has been bolted to give a hand in the widest part. A 13 m pitch widens hand the widest part. A 13 m pitch widens after 4 m landing on boulder slope. An apparent passage closes down after a few meters to a very narrow continuation both down and along. The rift is high ( 10 m plus) but does not seem much wider above, but this was not fully checked out but could be looked at from the top of the 13 m pitch Again the draught seemed to be lost. The site needs looking at in better draught conditions and if possible with people in Biggo. (Description from Phil Papard).

The shaft is quite close to the east end of Backdraught Passage in Cueva Llueva (survey) and the base of the p13 is (survey) and the base of the p13 is
apparently at the level of this passage. A apparently at the level of this passage. A
trip into the hole at Easter 2014 did not trip into the hole at Easter 2014 did not
identify any possible digging sites. (Not in identify any possible digging sites. (Not in
logbook). logbook)

The site was re-explored and re-surveyed by ADEMCO in 2016, given the name Torca Inglesa (AD-03) and the files shared with the Matienzo Caves Project in 2022. (Original Survex and Therion files are stored.)

References: anon., 2009d (autumn logbook); anon., 2009e (Christmas logbook); anon., 2011b
(Easter logbook); anon., 2022a (January, February (Easter logb
logbook)
Entrance pictures: yes
Underground pictures :

## Video :

from first descent Disto MATIENZO UNDERGROUND - site descriptions (printed $19 / 02 / 2022$

## drawings: plan Line Survey:

## 3335: cave

San Antonio 30T 4459114801274 (Datum: ETRS89. Accuracy code: G) Altitude 104 m Length 15 m

This hole is found by entering the nex shakehole from Cueva Laberinto and follov the right side uphill to a rift in the side of the bank. The rift drops 2 m to 2 ways on at right angles to the rift.
The right passage enters a small chamber and chokes. The left hand branch starts with a squeeze into a small chamber then a right turn for 3 m to a left turn into a 4 m wide chamber with soil run-in up to the roof. The length is a guess.

References: anon., 2009d (autumn logbook) Entrance pictures: yes
Underground pictures Underground pictures

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Video:
```

Detailed Survey
Line Survey
On area survey
Survex file

3336: shaf San Antonio 30T 4459244801212 (Datum:
ETRS89. Accuracy code: G) Altitude 108 m Length 10 m Depth 6 m Area position

On one side of a depression in the wood is a 6 m shaft leading to a rift which is choked at 6 m shaft leading to a
both ends. The bearing from the entrance both ends. The bearing from
along the rift is 220 degrees.

References: anon., 2009d (autumn logbook) Entrance pictures: yes
Video :
Detailed Survey
Line Surve
On area survey
Survex file

## 3337: cave

S Vega 30T 452138 4794151 (Datum: ETRS89 Accuracy code: M) Altitude 602 m Depth 2 m
Area positior

A small hole on the hillside. A red plastid bag can be seen $2 m$ down and the drop may continue beyond.
References: anon., 2009d (autumn logbook) Entrance pictures: yes Video :
Detailed Survey
Line Survey
On area survey
Survex file Survex file

3338: cave
N Vega 30T 4491014795397 (Datum: ETRS89
Accuracy code: G) Altitude 344 m Accuracy code: G) Altitude 344 m

A drop down of 7 m to a stal choke.
Reference: anon., 2009e (Christmas logbook) Entrance pictures: yes Underground pictures
Video:
ailed Survey Line Survey Survex file :
x
3339: dig
N Vega 30T 4487884795357 (Datum: ETRS89 Accuracy code: G) Altitude 414 m Area position

This dig is at the bottom of a large depression with a 5 m cliff at the west side at the back of a hole under the cliff, next to a tree. No draught.

Reference: anon., 2009e (Christmas logbook) Entrance pictures: yes

A scramble up the lower cliff leads to the entrance. The passage straight ahead narrows immediately while a small tube on the left goes to another opening in the cliff.

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Reference: anon., 2009e (Christmas logbook)
```

Reference: anon., 2009
Entrance pictures: yes
Untrance pictures: yes
Video:
Video:
Detailed Survey
Line Survey
On area surve
Survex fil
X
3341: diq
3341: dig
N Vega 30T 4489654795616 (Dat
Accuracy code: G) Altitude 361 m
Accuracy cod
Area position
Updated 26th April 2020
A rift has a small entrance at its top end.
A rift has a small entrance at its tof
There is a low passage to a choke.
Reference: anon., 2009e (Christmas logbook);
anon., 2020b (Easter logbook)
Entrance pictures: 2009, 2020
Entrance pictures: 2009 :
Undergr
Video:
Detailed Survey :
Line Survey
On area survey
Survex file :
x
3342: shaft
Mullir 30T 4552234795469 (Datum: ETRS89.
Accuracy code: G) Altitude 725 m
Accuracy code: G) Altituc
Length 33 m Depth 26 m
Length 33 m
Area position

## Updated 1st November 2010

This hole is not far from site 134 and has a small Yew tree in entrance. A drop of about 5 m reaches a ledge then 15 m reaches the floor. A 4 m climb down follows a rift to the left which ends in a calcite wall with a possible climb up at the top. It is probably not worth attempting this "although a splash was heard on the other side". Reference: anon., 2010a (February logbook);
anon., 2010c (summer logbook); Corrin Juan, 2011 Entrance picture: yes Underground picture : Video:
Detailed Survey : DistoX / PocketTopo Line Survey :
On area survey :
Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.
x
3343: cave
Llueva 30 T 4556874796655 (Datum: ETRS89. Accuracy code: G) Altitude 410 m Length 5 m Depth 2 m Area position

A small cave has a short wriggle followed by a 2 m drop to an impassable hole at the bottom.

Reference: anon., 2010b (Easter logbook) Entrance picture:

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Underground pictur
```

Video :
Detailed Survey
Line Survey
On area survey :
Survex fil
X
3344: shaft
3344: Shaft ${ }^{\text {Llueva } 30 \mathrm{~T} 4560584796745 \text { (Datum: ETRS89 }}$
Llueva 30T 4560584796745 (Datu
Accuracy code: G) Altitude 320 m
Accuracy code: G) Altit
Length 3 m Depth 3 m
Area position
A narrow slot at the base of a clint where
stones rattle down about 3 m .

Reference: anon., 2010b (Easter logbook) Entrance picture Underground picture Video :
Detailed Survey : Line Survey : On area surve Survex file :

X

## 3345: shaft

Llueva 30T 456013 4796751 (Datum: ETRS89.
Accuracy code: G) Altitude 307 m Accuracy code: G) Altitude 307 m
Length 7 m Depth 7 m Length 7m Depth 7m Area position

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A 7 m blind shaft.

Reference: anon., 2010b (Easter logbook) Entrance picture: yes Video
Detailed Survey
Line Survey
On area surv
Survex file :
X
3346: shaft
Llueva 3014560014796719 (Datum: ETRS89
Accuracy code: G) Altitude 300 m
Area position
A 4 m diameter shaft at the bottom of the depression. This bells out slightly and is about 30 m deep landing in a large chamber with a slope to a second pitch. A spit was found at the top. The pitch is 17.5 m but
blind at the base. A horizontal passage above the second pitch goes for about 20 m to some nice pretties.

Reference: anon., 2010b (Easter logbook)
Entrance picture: yes
Underground picture :
Video
Dene Sured Survey : not drawn up
On area surve
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS 89 datum, Apri

3347: shaft
Llueva 30T 4558154796736 (Datum: ETRS89.
Accuracy code. G) Altitude 346 m
Area position
A 5 m shaft with visible passage at the bottom which leads after about 5 m to a blind alcove.

Reference: anon., 2010b (Easter logbook)
Entrance picture: yes
Underground picture :
Video
Detailed Survey
On area su
Survex file :
X
3348: shaft
Cobadal 30 4 4886404798306 (Datum: ETRS89.
Length 3 m Depth 3 m
Area position
A $3 m$ deep rift with a possible dig at the base.

Reference: anon., 2010b (Easter logbook)
Entrance picture: yes
Underground picture :
Video
Detailed Survey
Line Survey
Survex file :

X
3349: shaft
Cobadal 30T 4487764798251 (Datum: ETRS89. Length 20 m Depth 20 m
Area position
This is a rift, first explored at Easter 2004, some 40 m above and to the left of The
Sewer. The opening, in a $1 \times 2 \mathrm{~m}$ limestone outcrop, drops in a very narrow, sharp, spikey rift to a choked floor (about 20m?). A narrow rift continues back up the other side. There was no noticeable draught at Easter 2004. It was refound and GPS'd, Easter 2010.

Reference: anon., 2004b (Easter logbook); anon.,
2010b (Easter logbook)
Underground picture :
Video
Detailed Survey
Line Survey
Survex file :
x
3350: dig
Riaño 30† 4514544800841 (Datum: ETRS89.
Accuracy code: G) Altitude 157 m
Area position

Just up the valley from a small barn below
Llanío entrance (looking uphill on the left).
Two small holes in bedding, the top one may
be draughting out.
Reference: anon., 2010b (Easter logbook)
Entrance picture
Underground picture :
Video
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Detailed Surve
Line Survey:

## 3351: dig

La Gatuna 30T 4493424800619 (Datum: ETRS89. Accuracy code: G) Altitude 121 m Area position

It's possible at this site to push a stick down 3 m between blocks. A possible dig but it may lead into the collapsed dolines to the north and south.

Reference: anon., 2010b (Easter logbook) Entrance picture: yes Underground picture : Video :

```
\[
\begin{aligned}
& \text { Detailed Surve) } \\
& \text { Line Survev: }
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$$
\begin{aligned}
& \text { Line Survey } \\
& \text { On area surv }
\end{aligned}
$$

$$
\begin{aligned}
& \text { On area surve } \\
& \text { Survex file : }
\end{aligned}
$$

X
3352: sink
El Suto 30T 449270 4800437 (Datum: ETRS89. Accuracy code: A) Altitude 135 m (GPS taken on on the road at the eastern rim of the shakehole)

## Area position

A 20 m diameter sinkhole, full of brambles, which has been examined but no cave has been found.

```
Reference: anon., 2010b (Easter logbook)
```

Reference: anon.,
Entrance picture: yes
Underground picture
Undergro
Detailed Survey
Detailed Sur
Line Survey
On area survey :
Survex file :
X
3353: cave
Llueva 30T 454913 4798414 (Datum: ETRS89
Llueva 30T 454913 4798414 (Datu
Accuracy code: G) Altitude 195 m
Accuracy code: G) Altit
Length 5 m Depth 2 m
Area position

This cave is behind a $1.5 \times 1.5 \mathrm{~m}$ rock in the This cave is behind a $1.5 \times 1.5 \mathrm{~m}$ rock in the left side of the road when driving downh
The $30 \times 50 \mathrm{~cm}$ entrance left of the rock The $30 \times 50 \mathrm{~cm}$ entrance left of the rock
enters a narrow meander 5 m long and 2 m enters a narrow meander 5 m long a
high which turns left to a blind pit.

```
Reference: anon., 2010b (Easter logbook); anon.,
Reference: anon., 2010b
```

Entrance picture: yes
Underground picture : yes
Underground picture : ye
Video:
Detailed Survey :
Line Survey
On area survey
Survex file :
x

3354: cave
Llueva 30T 4545544798179 (Datum: ETRS89. Accuracy code: A) Altitude 128 m Length 10 m

Updated 3rd. 16th May 2012
The entrance is about 16 m to the SE and 4 m higher than the entrance to Cueva Llueva (site 0114). A slope up reaches a low-arched passage 80 cm wide and $40-$ 50 cm high that continues for about 10 m to a mud and calcite choke. This point is about 15 m from a passage in Cueva Llueva.

Reference: anon., 2010b (Easter logbook) Reference: anon.,
Entrance picture: yes Underground picture : Underground picture :
Video : in the Cueva Llueva depression - YouTube video Detailed Survey Line Survey On area surv
Survex file :

X
3355: cave
S Vega 30T 4513614795347 (Datum: ETRS89. Accuracy code: G) Altitude 242 m Length 43m Depth 5 m Area position

Updated 1st February 2011; 21st March 2023

A small, excavated entrance drops onto rubble that slopes down to a passage that rubble that slopes down to a passage that
parallels the hillside. Right is walking size to parallels the hillside. Right is walking size to
where it closes in; left is decorated hands and knees / crawling which also closes in. and knees / crawling which also closes in.
There is a flatout crawl at the back which There is a flatout crawl at the back which The cave was surveyed in March 2023.

Reference: anon., 2010b (Easter logbook); anon., 2023b (Easter logbook)

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## Underground pictures : yes Video : Easter 2010 :

An active stream sinks between rocks and a few pieces of building material 3 m from the few pieces of building material 3 m from th
road (towards a tree). A larger sink may road (towards a tree). A larger sink may
have been covered by the farmer. It seems have been covere
like a possible dig

Reference: anon., 2010b (Easter logbook)
Entrance pictures: Underground pictures Video : Detailed Survey Line Survey On area sur
Survex file

Updated 1st November 2010; 19th May, 16th October 2011; 30th April 2012; 5th July 2015; 1st July 2018

The original entrance (explored 3/4/10) lies about 25 m north of site 978 and was pushed though a climb up, a flat out crawl then a climb down into a passage that connects with the entrance of site 978 . Th latter is the easier way in. The passage heading west drops down 6 m free climb ir heading west drops down 6 m free climb into a streamway which is heavily scoured with few sediments. Downstream ends at
and sump behind site 979 . Upstream
continues (from 150 m to Engagement Sump with an aven
150 m to Engagement
above. [There is no write up in the Easter 2010 above. [There is no write up in the Easter 2010
logbook.]

At Easter 2011, the aven was climbed to where to it closed in. Also on that trip, small passage - "on the left on the way the last one before you meet the sump" was pushed for about 50 m to a draughting dig. At Easter 2012, the end was described as "too low on the left and requires digging on the right. Needs surveying.'

After a couple of investigations, one a free dive attempt, the other with a small bottle, the sump was passed by Simor Cornhill in the summer, 2010 and, after 36 m , emerged in a canal with walking size passage which continues upstream past a boulder collapse. The dive report (9/8/2010) can be found here
Over three days in August 2011 firs Simon Cornhill, then Simon with Dan Hibbert dived through and pushed the upstream passage. Over 800 m were surveyed: at the end sump 2 was reached and a high level which still has possibilities. (There is no log book entry.)

Engagement Sump is 41 m long with a maximum depth of 3.9 m . After the initia descent from the sump pool, the passage remains in similar proportions, approximatly $2 m \times 2 m$ the floor being heavily silted. The line was laid as near to the roof as possible on the left-hand side to avoid the silt. The sump is mainly heading south, passing two small airbells. The sump surfaces in a cana which was lined for a further 20 m to an adequate belay. After a few more metres the canal is left and diving kit can be removed.
A stream passage around 1.5 m wide and - 6 m high heads off passing under a boulder collapse.
Shortly after this, a wade through a pool and a 3 m climb up on the right hand wall gains a rising traverse above the streamway. At the top of this some sandy crawls John Wayne's Sore Saddle Bags ends in a 12 m aven, which must be very close to the surface
Back in the streamway an aven is passed Back in the streamway an aven is pas
followed by a couple of green stagnant followed by a couple of green stagnant pools, the main flow sinking just after th
The Comfort Zone continues as a fine stream passage for the next 200 m , until the cave becomes more aqueous for 130 m . Here a passage to the east emerges into a large $32 \mathrm{~m}+$ aven. A 4 m climb up the south wall of the aven gains a higher level, large dry passage. After around 100 m a 3 m climb enters a crawl which ends in a tiny streamway.
Back at the base of the aven a clamber down re-joins the main streamway. (The aven can be bypassed by continuing in the water, but it is out of depth swimming) Wading and swimming for the next 60 m
passes through a narrow rift with deep MATIENZO UNDERGROUND site descripitions (printed 19/02/2024) Volume 5 - page 52
water, emerging at an enlargement with a
silt bank on the here, the roof gradually lowers to a deep looking sump. (Passage description from Engagement Sump by Simon Cornhill.)

At Easter 2012, the high level was pushed
o a very small stream passage with "no to a very small stream passage with "no
way on that looks any good". Sump 2 was ay on to looks any good. Sump 2 was dived to 14.6 m depth where there is a steep incline: sandy, tight and at 45 degrees. This
becomes very tight and "needs digging". becomes very tight and "needs digging"
Just before the discoveries of 2011 , Just before the discoveries of 2011 dowsing was carried out upstream of ngagement Sump. The reactions and supposed links soon veered away from the later reality of the cave passages. This could be due to the dowsed passage not yet being found underground, or the fact that dowsing did not actually occur over where the cave passage was eventually found! Reactions were found on nearby roads and tracks and into fields. The results for the La Gatuna valley are linked below.
A diagram of the hydrology of the San Antonio - Hornedo - Cobadal area drawn after Easter 2011 can be found here.

Link to entry in the Cave Diving Sump Index.

Reference: card; anon., 2010c (summer logbook);
Corrin Juan, 2011; anon., 2011b (Easter logbook); Corrin Juan, 2011; anon., 2011b (Easter logbook); anon., 2011d (summer logbook); anon., 2012b Entrance pictures: yes Entrance pictures: yes
Underground pictures : yes : Easter 2012
Video : 2010 upstream to sump Underground pictures: yes : Easter 2012
Video : 2010 upstream to sump (12Mb wmv:
151 Mb mpg ) : Easter 2012 151 Mb mpg ) : Easter 2012 Detailed Survey : from Easter 2010 : from summer 2010: sump 1 and beyond sketch : after summer 2011 On area survey : Dowsing reactions from the back On area survey : Dowsing reactions from the baticl
of Cueva Nabo to La Collada. (Article about the dowsing carried out in July 2011 can be found here. Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.) Passage direction rose diagram: $1 / 7 / 2018$

X
3358: shaft
Hornedo 30T 447544 4799914 (Datum: ETRS89. Hornedo 30T 447544 4799914 (D
Accuracy code: G) Altitude 389 m Depth 15m

## Area position

An undescended p15 covered with a large sandstone slab. When discovered, it lay under dead bramble bushes

Reference: anon., 2010b (Easter logbook)
Entrance picture: yes Entrance picture: yes Underground pictures Detaile
Line Survey: On area surve Survex file :
x
3359: shaft
Camposdelante 30T 4473764799634 (Datum.
ETRS89. Accuracy code: G) Altitude 340 m ETRS89. Accuracy code: G) Altitude 340 m
Length 30 m Depth 21 m Length 30 m Depth 21 m Area position

## Updated 30th April 2012

A 7m pitch drops into a chamber with a narrow rift continuing and a crawl over the top to a chamber with a 12 m pitch. This lands at the base of a rift and is choked all round. There is a slight draught at the top.

An alternative grid reference is 30T 0447478 4799843.

Reference: anon., 2010b (Easter logbook); anon., 2012b (Easter logbook)
Entrance pictures: yes

## Video :

```
Detailed Line Survey :
``` On area surv
Survex file :
x
3360: cave
San Antonio 30T 4468434801311 (Datum ETRS89. Accuracy code: G) Altitude 108 m ength 55m Depth 7 m Area position

Updated 1st November 2010; 5th May 2016 [No description of this hole. Survey being drawn up (James \& Tom).]

The roomy entrance lies on the side of a depression. In the summer, 2010, the draught was followed through a snappered slot to a cross rift where the draught was slot to a cross rift where the draught was
found to emerge from several \(2^{\prime \prime}\) wide slots found to emerge from seve
in the floor, roof and walls.

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Survex file

Underground pictures
Video :

3367: shaft
Cobadal Shat 4476704799162 (Datum: ETRS89 Cobadal 30T 4476704799162 (Da Length 20 m Depth 17 m Area position

A 10 m drop to a large boulder and a further 5 m drop to the floor. A rift leads to a tight 5 m drop to the floor. A rift leads to a tight side of the boulder is a small hole to a parallel shaft where stones drop another 5 parallel shaft where stones drop another 5 or 6 m .
Reference: anon., 2010b (Easter logbook)
Entrance pictures: yes Entrance pictures: yes Underground pictures
```

Video :

```
Detailed Survey
On area surve
Survex file :
X
3368: shaft
Cobadal 30T 4477804799181 (Datum: ETRS89.
Accuracy code: G) Altitude 302 m
Length 16 m Depth 16 m
Area position
A 16 m shaft to a mud floor and no way on.
Reference: anon., 2010b (Easter logbook)
Entrance pictures: yes
Underground pictures
Video:
Detailed Survey
Line Survey
On area surve
X
3369: shaft
Cobadal 30T 4475814799087 (Datum: ETRS89.
Accuracy code: G) Altitude 253 m
Length 3 m Depth 3 m
Area position
A 3m drop into a small chamber with no
draught and no way on
Reference: anon., 2010b (Easter logbook)
Reference: anon., 2010
Entrance pictures: yes
Entrance pictures: yes
Video :
Detailed Surv:
Line Survey
On area surve
Survex file :
X
3370: sink
Cobadal 30T 448213 4799128 (Datum: ETRS89
Cobadal 30T 4482134799128 (Da
Accuracy code: G) Altitude 280 m
Accuracy code

A small hole at the side of the road that draughts and takes water.
```

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\begin{array} { l } { \text { Reference: anon., 2010b (Easter logbook)} } \\ { \text { Entrance pictures: } } \end{array}
$$
Underground pictures
Video:
Detailed Survey
Detailed Sur
Line Survey:
On area sur
X
3371: resurgence
La Gatuna 30T 449107 4798983 (Datum: ETRS89.
Accuracy code: G) Altitude 304m
Accuracy cc
Area position
A small resurgence into an animal trough.
The water sinks into site 3372,
Reference: anon., 2010b (Easter logbook)
Reference: anon., 2010
Entrance pictures: yes
Video:
Video:
Line Survey
On area survey :
Survex file
X
3372: sink
La Gatuna 30T 449100 4798989 (Datum: ETRS89.
La Gatuna 30T 449100 4798989(
Accuracy code
A "small hole to passage". The sink for site
3371.
Reference: anon., 2010b (Easter logbook)
Entrance pictures: yes
Underground pictures
Video:
Detailed Survey
MATIENZO UNDERGROUND - site descripitions (printed 19002/2024

```
On area surv
Survex file
```


## 3373: caves

La Gatuna 3074491634799041 (Datum: ETRS89 Accuracy code: G) Altitude 283 m

## Length 14 n

 Area positiorUpdated 24th September 2018
Various entrances in a collapse which were partly investigated in August 2018.

At the base of the collapsed sinkhole there's an obvious square entrance into a small chamber with a sandy floor. On the left is man-made wall - perhaps a previous farmer man-made wall - perhaps a previous farm used it as a cold store. Ahead, in natura rock, is a 6 m long passage containing a small stream that appears to close down too tight. To the righ is a 4.5m extension to the chamber. Both not explored fully. Water from the stream was seen cascading from the passage into a small pool of water near the entrance then overflowing and sinking into a boulder choke in the floor. A possible high-level entrance was not explored. [Description: Richard Bullock]

Reference: anon., 2010b (Easter logbook); anon., 2018c (summer logbook) Entrance pictures: 2010 and 2018 Underground pictures : 2018 Video: Detailed Survey : sketch, 2018 Survey On area sur
Survex file

## 3374: shaf

La Gatuna 30T 4502134799347 (Datum: ETRS89 Accuracy code: G) Altitude 307 m Length 10 m Depth 7 m Area position

Updated 12th May 2018
A 7m deep shaft next to the road and close to site 399. The shaft splits into 2 and botr sides choke.

Reference: anon., 2010b (Easter logbook); anon., Reference: anon.,
2018b (Easter logbook
Entrance pictures: 2010 and 2018
Underground pictures
Video:
Detailed Survey
Line Survey :
Line Survey
On area surv
Survex file :

3375: shaft
Coterón las Llanas 30T 4506924798859 (Datum: Coteron las Llanas 30 , 4506924798859
ETRS89. Accuracy code: G) Altitude 401 m Length m Depth 3 m Area position

An unexplored 3 m deep shaft
Reference: anon., 2010b (Easter logbook)
Reference: anon.,
Entrance pictures:
Entrance pictures:
Video :
Detailed Survey
Line Survey
On area surv

```
Survex file
```


## 3376: collaps

La Gatuna 30T 450281 4799813 (Datum: ETRS89 La Gatuna 30T 4502814799813 (
Accuracy code: G) Altitude 288 m

## Depth 2 m

Updated 26th September 2023
The roadside bank here is collapsing into 2 m deep slots along a 20 m stretch. Want keeping an eye on! Possible further information was received 26/6/2023 with photos - or it may be something new.

Reference: anon., 2010b (Easter logbook); anon., 2023c (summer logbook)
Entrance pictures: probably; Spring 2023 Underground pictures

## Reference: anon., 2010b (Easter logbook) Entrance pictures:

 Entrance pictures:Underground pictures Video:
Detailed Survey Line Survey On area sur :
Survex file :

X
3378: cave
S Vega 30T 4521894795043 (Datum: ETRS89 Accuracy code: G) Altitude 348m Length 10 m

A 10 m wide chamber with a low crawl leading off that looks to close down. No draught.

```
Reference: anon., 2010b (Easter logbook)
Reference: anon., 2010
Entrance pictures: yes
Video:
Detailed Survey
Letailed Surv
On area surv
On area sur
```

X
3379: cave
San Antonio 30T 4472334801123 (Datum:
ETRS89. Accuracy code: G) Altitude 118 m
ength $5 m$


Reference: anon., 2010b (Easter logbook) Entrance pictures:

```
Video:
```

Video:
Detailed Survey
Line Survey
Line Survey :
On area survey :
On area sur
Survex file :
X

3380: Peña Encaramada, Torca de Hornedo 30T 4477394801293 (Datum: ETRS89. Accuracy code: G) Altitude 121 m Area position

Updated 19th July, 1st November 2010; 6th January, 24th, 27th May, 16th October 2011; 15th January 2012; 7th, 8th October 2013; 24th, 25th May 2014; 1st July 2018; 3013; 24th, 25th May 2014; 1st July

Major extensions were made in November Major extensions were made in Novembe
2023 over 7 trips. Extensions were found 2023 over 7 trips. Extensions were found
from the I Want It All area south to the from the I Want It All area south to the
Champagne Supernova Series. PreChampagne Supernova Series. Pre
December 2023 cave description. December 2023 cave description.
The entrance is a small, outward draughting hole in a small depression about 4 m from the road. A slide down a mud slope goes under two boulders and drops into a fluted, limestone hollow. A climb up the opposite side reaches the 30 m pitch head. Two bolts on the right (backed up by a large outcrop, also on the right) allows an awkward, feet first, flat out approach to the pitch head. (Note: a rope protector is needed to avoid the inevitable rub.) A
steeply sloping pitch starts over calcite steeply sloping pitch starts over calcited make the drop safer. A deviation after 6 m make the drop safer. A deviation after 6 m
avoids the majority of the rub. The pitch avoids the majority of the rub. The pitch was heavily decorated with (loose) calcite,
now much removed and / or rather grotty, now much removed and / or rather grotty,
again making the pitch safer. The initial again making the pitch safer. The initial landing is on boulders wedged in the ri then a tighter, gnarly, final 6 m to the bottom.
The way on is via the lower but wider sand-floored passage to a right turn at a Tjunction. A squeeze around stal columns leads to further stal columns which can be bypassed on the left. A blind hole in the floor is crossed over then obvious passage $i$ followed, watching out for the loose walls which tend to collapse rather too easily. Side passages are mainly dead ends. At one point a pile of fallen slabs marks the position of the Bridge of Doom - a roof collapse feature, now destroyed. (See photos below) Shortly after this, a passage goes off on the right. This leads to fragile rift passage and the way on to the lower series via a ladder pitch at the start of the rift. (A 10 m ladder is required with a long belay to a boulder at the start of the passage boulder at the start of the passage -
although two 10 m ladders work well. Back in the main passage the route leads Back in the main passage the route I
past two sets of "pretties" (care!) to past two sets of "pretties" (care!) to
gradually descending passage to a drop of 2 m (on the right on stals) into the final section. Immediately after the drop there is an aven on the right that appears free climbable but is awkward. This has not been climbed yet but a way on can be seen. Further on is an excavated hole in the floor which is a climb down 2 m to a constricted MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
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rift with pretties and a possible pitch down
to the Sump Series seen ahead. Back on to the Sump Series seen ahead. Back on
the main level, the way on is straight ahead to a sandy aven. To the left is a sand choke with a possible easy dig to continuations. Ahead is a sandstone boulder choke. To the right is small, crawling passage to an
right is small, crawling passage to an
approximately 7 m pitch with a puddle at the approximately 7 m pitch with a puddle at the
bottom. (This is believed to connect to lower bottom. (This is believed to connect to
Sump Series, but not proven as yet.) It's Not Big and It's Not Clever is a low, It's Not Big and It's Not Clever is a low,
crawly, horrible dead-end on the right near crawly, horrible dead-end on the right $r$ r

Back at the the turn off to the lower Sump Series and the ladder pitch down, the water can be followed through hands and knees / walking passage for approximately 300 m . Several oxbows have been noted and one significant inlet on the right (Orange River). At around this point numerous eels have been seen. The passage continues downstream to a wider area with minimal airspace which sumped off after slight rain. This was dived in the summer 2013 by Tim
The Webber. At 14 m in, a cross rift is met with sandstone boulders and a possible way on The dive line at this point has "Encaramada" The dive line at this point has "Encaramada written on it. The sump is very tight at th start: the returning diver was stuck for minutes until he removed his cylinder and helmet. This point must be very close to Cave of the Wild Mare
At the foot of the ladder to the lower Sump Series, upstream ends at a calcite blockage but with "bigness" apparent beyond. The way on is to the right via thrutching passage to a chamber which has a hole in the roof. This has been disto'd to 23 m . The way on is on the left of the chamber followed by a right turn. Going upstream, a climb over a stal curtain passes various avens and inlets. (At the top of the climb a passage to the left veers right for 5 m and has sign and sounds of "bigness' ahead. This was not entered due to lack of time). A notable climb up on the left enters a boulder-filled chamber leading to a sump and boulder-filled aven (I Want Me Mum Chamber). The upstream continuation - at Chamber). The upstream continuation - at
various levels according to girth - is in sharp various levels according to girth - is in sharp and very gnarly passage. This is where the Easter 2010 survey ended whall low passage on the left leading to a small, low passage
with a sump. The way on is now dry with an with a sump. The way on is now dry with a
inlet on the left leading to a "reasonable" inlet on the left leading to a "reasonable 5 m climb up to dry sand / mud phreat passage (not entered). Back in main passage the way on trends left and slightly uphill with the way on continuing lower and wider. No draught was evident at the time or the "grab-fest" would have continued.

The cave was extended by 2373 m in the summer, 2010. The unattributed passage descriptions below are mainly written by Dickon Morris (summer 2010).

Above the upstream sump in the lower streamway is a 5 m climb, Stairway to Heaven. A short crawl at the top pops out into walking size passage. To the left is about 20 m of passage terminating at a
choke where a cattle tooth was found - El Torro choke. Going right from the top of the climb the passage continues fairly pleasantly.
After 50 m a junction is reached. A ramp to the left leads to about 100 m of passage
 Way and That - an offset on the
sandy crawl breaks into a larger continuation but access is prevented by boulders. A wreaking bar would probably allow entry, but the air seems stale.

## I Want It All area south to Champagne

 Supernova Series [Amendments and additions by Rob Eavis - November 2023 Video of these explorations.]Going left down the stream canyon leads after 10 m to a concealed junction with a major side series (Wizard of Oz Series) to
the left. Twenty five metres later a choke is the left. Twenty five metres later a choke is reached and worming easily through this enters the most pleasant passage in the cave (Long Road To Ruin) which is a 300 m stomp to a boulder choke

Just before I Want It All, a passage on the right (labelled "open" on an earlier survey) was entered and surveyed as "3 2014. (Batch 3380-14-01-Oxbows, length 59 m ).

Passing this choke (I Want It All) involves a tight and awkward squeeze (The Pug Trap) which pops ol
chamber with high avens

By climbing to the top of the boulders it is ossible to reach two high level passages The first is reached by a bold step. A walk
up a narrow ramp leads to about 70 m of varied passage ending at a tightly packed boulder choke, passing a 10 m deep rift which remains undescended. Just before the strongly inwards but is too tight to enter

Back in the large chamber a passage can be seen on the wall opposite but requires a rope traverse. The traverse (de-rigged starts at the edge of the last big boulde that you can stand on at the top of the boulder slope where two bolts are easily hand wall, using 4 bolts and a 20 m rope left The ongoing passage is on the opposite wall and begins as a nice walking sized passage. ollowing this passage, you pass a blind pit on the floor. The passage leads to
chamber with numerous ways on. A slide down a mud slope traversing the right wall, care needs to be taken here as the slope 16 m ). This pitch was descended to a mud 16 m ). This pitch was descended to a $r$
filled floor with no ways on (and no filled floor with no ways on (and no
draught). Whilst on the re-belay it's possibl to see a passage approx. 4 m above the bolts, this requires bolting into. Back at the top of the pitch the main way runs parallel to the pitch, heading SW taking care or another bold step across a 7 m pitch (undescended - doesn't look promising). At the start of this passage a tall rift heading northwest can be entered. This rift continues for 14 m until a tight squeeze is reached. This could be passed with a hammer or a very determined thin caver. The rift can be een to continue after the squeeze
Slytherin now continues as a walking sized joint oriented passage which after 5 m a boulder blocks the way on and requires an climb down is reached, at the bottom is a hole in the floor along the entire left hand side of the passage, this remains undescended but does not look promising. undescended but does not look promising
Traversing along at mid-level leads to an Traversing along at mid-level leads t
awkward climb ( 2 m ) into a 4 m long awkward climb ( 2 m ) into a 4 m long
awkward rift (a sideways crawl is the best way to pass this). Care needs to be taken o
the way back out as you crawl headfirst to the way back out as you crawl headfirst $t$
the climb down! At the end of this tight crawl a climb down a sloping boulder leads back into the main rift. After about 2 m the rift becomes tight and the only way on is the
crawl at floor level heading south. The crawl crawl at floor level heading south. The craw brings you out into a small chamber with avens (un-climbed). Following the left-hand wall leads to a 5 m pit choked with mud Staying high you can traverse around to a boulder choke. The choke hasn't been fully explored - the way through the choke quite obvious, from where you finish the traverse. Heading right and down a mud
slope, a small step up through a "keyhole shaped" hole can be seen on the right hand wall, through this leads to a large well decorated rift. 3 m along this rift is a tight rift descending NW but looks too tight to enter. A window is passed on the left, this leads to Nosferatu (see below)
The rift continues on a solid floor which soon gives way to a false floor "hopping
exercise". None of the holes in the floor exercise". None of the holes in the floor
have been looked at. The way on is to stay high and work your way across the mud covered boulders. After 10 m a very well
decorated section is entered, Ollivander Wand Room. A passage cuts off to the north just after Ollivander's Wand Room. This was not entered. Ten metres further a large passage heading north can be entered via an easy traverse/climb down, sticking to false floor ledges! Care to be taken as to MATIENZO UNDERGROUND - site descriptions (printed $19 / 02 / 2022$
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
was pushed until the rift became too wide.
passage can be seen heading off at the top

Back in I Want It All, at the base of the
of unusual passages (Champagne numerous, phreatic cross rifts/passages, each much bigger than the connecting tube Two of these have exceptional helictite formations. The draught comes from the formations. The draught comes from the very end of the small tube, whic
small to progress further along.
During Easter 2011, the route at the sout During Easter 2011, the route at the sout
end was pushed through over 2 trips to a large cross rift forming the current end of large cross rift forming the current the cave south. Here there are numerous
leads in the roof that require bolting, but the main horizontal passages close down. Fuller descriptions for batches 3380-11-01 and 3380-11-02 will (hopefully) appear here. The end of the cave is about 80 m horizontally away to the northeast and about 50 m down from the sink, site 3170 , at the base of the giant Hondo depression. It is worth noting that the drawn survey of this end section does not match well with the cave and should really be redone. The team in 2023 started to do this, found the Champagne Supernova Series after only 20 m and got no further...!

Wizard of Oz Series From the junction with the canyon is about 80 m of mostly crawling passage to a junction with a walking size passage (Tin Man Junction). To the left soon reaches another junction where the left hand passage is very pleasar for around 60 m passing some 1.5 m long straws before it reaches a section with som good, dry gour pools and becomes completely choked with flowstone. By entering a rift to the left as you reach the final section of passage it is possible to climb down and pass through a squeeze. This pops out in the roof above the step after the stal squeeze earlier in the cave and provides a useful shortcut.
To the right at Tin Man Junction is 60 m of narrow but reasonably high passage to a chamber with a cairn and two ways on. The eft hand way is a yellow-floored passage (Yellow Brick Road) which goes for about 80 m to a boulder choked aven. Straight at the junction leads, after a crawl and a queeze, to a sandstone boulder choke. Thi has been passed by the author to reach a walking size passage with a good draught and heading in the "right direction". However, the choke began to fall on the return so stabilising is required.
At Easter 2011, this was passed and the area described thus: From the corner before the Dickon Trap (heading towards t
left leads 5 m to boulders. Right leads through a crawl to a small chamber followed by a further crawl to a small sandstone choke. A duck under a boulder and a hole ir the floor and a crawl to the Dickon Trap. A climb over boulders leads to a small aven where the passage descends to a small muddy / sandy meandering rift passage which can be followed for 40 m through a couple of constrictions. Straight on up the slope leads to a calcite blockage. A climb up slope leads to a calcite blockage. A clim
the rift back on yourself leads to a 15 m the rift back on yourself leads to a 15 m
aven blocked at the top with boulders. Ther aven blocked at the top with boulders.
are no leads to push. The Dickon Trap are no leads to push. The Dickon Trap
Extension is surveyed as batch 3380-11 Ext
02.

The upstream sump in the lower
streamway was found to be open in July 2010 and was passed to about 100 m of low unpleasant passage.

A diagram of the hydrology of the San Antonio - Hornedo - Cobadal area drawn after Easter 2011 can be found here

The explorations in the summer 2011 were mainly around the entrance series 463 m were surveyed. Most details are on the survey. Details that can be gleaned from the log book include

5 m down the entrance pitch, an oxbow can be swung into. There is about 35 m of passage including a pretty grotto, a too tight rift and, the most obvious route, leading to a wer choke. (batch 11-05)

- a series at the base of the entrance pitch has about 50 m (batches 11-04 and 11-13) oyond the 2 m climb at the northeast beyond the 2 m climb at the northeast - batner.
- batch 11-09 was surveyed as a traverse over the top of the p10 to a too tight rift and an aven which may be worth bolting.
- batch 11-11 drops into a streamway which became too tight downstream. Water was followed upstream then the water was left and the passage pushed to a small chamber. Beyond is a series of small chambers which contain footprints - I Want Me Mum Chamber. Also around this series the following note was made:

During the very wet end of July 2011 there was a stream observed coming out of the boulder choke that links into the Boulevard of Broken Dreams. This stream flowed along the normally dry passage and encouraged investigation of a few side passages.
This map shows the observed and presumed path of the water
At each point the volume / time seemed to At each point the volume / time seemed to
be the same - hence the assumption that this was one stream appearing and disappearing.
This flow reappears in a new section of stream way which drains to the sump series and then the "main" stream.

Link to entry in the Cave Diving Sump Index.

Reference: anon., 2010b (Easter logbook); anon.,
2010 ( summer logbook); León García José, 2010 2010c (summer logbook); León García José, 2010
(Volume 1 and Volume 2) (survey and photo); Corrir Juan, 2011 (photo); anon., 2011b (Easter lobgook); anon., 2011d (summer logbook); anon., 2014b (Easter logbook); Papard Philip, Corrin Juan and Smith Peter, 2014; anon., 2023d (autumn logbook) Entrance pictures: 2010, 2014: autumn 2023 Underground pictures : 2010: 2011: 2014 Easter
(Tim Webber) : 2014 Easter (Martin Hoff) : autumn 2023 (Jon Pemberton) : autumn 2023 (Rob Eavis) Video : downstream, summer 2013 (YouTube) Easter 2014 (YouTube) : autumn 2023 Detailed Survey : Easter 2010 (incomplete) : after summer 2010 : Easter 2011 (incomplete) : afte Easter 2012 (complete) : summer 2013 : Easte 2014: autumn 2023

## Accuracy cor Length 2 m Area positior

Updated 11th February 2023
A diggable entrance to a crawl (5m visible) at the foot of a scar at the head of a gully. No draught.

When inspected, after lifting away a few rocks in February 2023, the crawl was seen to continue for only a couple of metres.

Reference: anon., 2010b (Easter logbook); anon., 2023a (January, February logbook) Entrance pictures: yes Video : Detailed Surve Line Survey On area sury
Survex file :
x
3384: dig
Riaño 30T 451420 4800890 (Datum: ETRS89. Accuracy code: G) Altitude 165 m Area position

A small, diggable bedding near the top of the field.

```
Reference: anon., 2010b (Easter logbook)
Reference: anon., 2010
Video:
Detailed Survey
Line Survey
On area sury 
X
3385: dig
Riaño 30T 451458 4800851 (Datum: ETRS89.
Accuracy code: G) Altitude 161m
Area position
```

A diggable, draughting slot that looks to have been in-filled by the farmer.

```
Reference: anon., 2010b (Easter logbook)
Reference: anon., 2010
Video:
Detailed Surve
Line Survey
On area surve
Survex file :
X
3386: shaft
El Suto 30T 450578 4800463 (Datum: ETRS89,
Accuracy code: G) Altitude 129m
Accuracy code: G) Altit
Length 4m D
```

Updated 25th May 2011
A "well choked" 4 m deep hole with overhanging debris at the end of a gully. At grid reference 30T 04505334801055 ; ETRS89: 30T 4504314800846 is a stream flowing in a small channel which appears to match the flow in the gulley above 3386.

Reference: anon., 2010b (Easter logbook); anon., Reference: anon., 201
2011b (Easter logbook)
Entrance picture: y
Underground pictures
Video:
Detailed Survey Line Survey
On area sur Survex file

X
3387: resurgence
El Suto 30T 4505544800379 (Datum: ETRS89. Accuracy code: G) Altitude 143m Area position

Twin risings, both impassable, feeding a large covered tank. Overflow water goes down gully towards site 3386 but seems to sink before getting that far.

Reference: anon., 2010b (Easter logbook) Entrance picture: yes Video: Detailed Surve
Line Survey : Line Survey On area sur
Survex file :
x
3388: shaft
S Vega 30T 4515084795300 (Datum: ETRS89. Accuracy code: G) Altitude 243 m Depth 4m
Area position

Updated 21st September 2022
A small, undescended 4 m deep shaft. The site was "checked" in July 2022 and a new GPS, just a metre out in each coordinate.
MATIENZO UNDERGROUND - site descriptions (printed 19002/2024 $\begin{gathered}\text { Volume } 5-\text { page } 63\end{gathered}$

## Reference: anon., 2010b (Easter logbook); anon.,

 Entrance picture: ye
## 3389: cave

S Vega 30T 4515274795299 (Datum: ETRS89

## Accuracy code: G) Altitude 240 m

## Length 15 m Depth 8 m

 Area positionUpdated 1st February 2011
An open entrance leads to a slope down to a choked p4. Part way down the slope, on the right, a 3 m drop is also blind

Reference: anon., 2010b (Easter logbook)
Reference: anon., 201
Entrance picture: yes
Entrance picture: yes
Underground pictures

A small entrance by a wire fence leads to a 5 m crawl, ending too tight

Reference: anon., 2010b (Easter logbook) Entrance picture: ye


```
Video:
```

Video:
Video :

```
Line Survey:
On area survey
On area sur
Survex file

3391: shaf
Alisas 30T 4477684793748 (Datum: ETRS89. Accuracy code: G) Altitude 711 m Accugth 10 m Depth 4 m

\section*{Area positior}

A 4 m deep shaft slopes down to a possible dig. (Undescended.)

Reference: anon., 2010b (Easter logbook) Entrance picture: yes
up.
\[
\begin{aligned}
& \text { A } 9 \mathrm{~m} \text { deep rift / shaft with a block bridge in } \\
& \text { the middle of the rift. There is a flat floor }
\end{aligned}
\] with a possible dig at each end. Undescended.

Reference: anon., 2010b (Easter logbook)
Reference: anon., 2010
Entrance picture: yes Entrance picture: yes Video:
```

$$
\begin{aligned}
& \text { Detailed } \\
& \text { Dine Surv }
\end{aligned}
$$

```
\[
\begin{aligned}
& \text { Detailed Sur } \\
& \text { Line Survey }
\end{aligned}
\]
\[
\begin{aligned}
& \text { On area survey }
\end{aligned}
\]
Survex file :

3394: shaft
Alisas 30T 4479334793590 (Datum: ETRS89 Alisas 30T 447933 4793590 (Datur
Accuracy code: G) Altitude 723 m
Depth 8 m

\section*{Depth 8m \\ Area position}

A undescended 7.5 m deep shaft with a possible dig at each end. Marked "T2"(?) in red.
Reference: anon., 2010b (Easter logbook) Entrance picture: yes Underground pictures
```

Video

```
Detailed Survey
Line Survey:
Survex file :
x
3395: shaft
Alisas 30 T 4479384793590 (Datum: ETRS89.
Accuracy code: G) Altitude 724 m
Length 2 m Depth 2 m
Area position

This site is 5 m to the east of 3394 . A 2 m deep rift.
```

Reference: anon., 2010b (Easter logbook)

```
Entrance picture: yes
Underground pictures
Video:
Video:
Detailed Survey
Line Survey
On area survey :
Survex file :
X
3396: shaft
Alisas 30T 4481534793618 (Datum: ETRS89
Alisas 30T 4481534793618 (Datu
Accuracy code: G) Altitude 717 m
Accuracy cod
Depth 10 m
Depth 10 m
Area position
Updated 19th September 2021

An undescended 6 m drop to a sloping floor then a 1 m drop and a slope under. (Possible then a 1 m drop and a slope under. (Possibl
dig?). The site couldn't be found in August dig?).
2021.

Reference: anon., 2010b (Easter logbook); anon., 2021c (summer logbook)
Entrance picture: yes
Underground pictures
Video:
Detailed Survey :
Detailed Sur
Line Survey
On area surve
On area sur
Survex file :
x

3397: shaft
Alisas 30 T 448161 4793624 (Datum: ETRS89.
Accuracy code: G) Altitude 710 m Accuracy code: G) Altitude 710 m
Length 60 m Depth 52 m Length 60m Depth 52 m Area position

Updated 25th November 2013; 19th September 2021
A "big hole" where rocks fall 18 m to a ledge then another \(10 \mathrm{~m}+\). The hole is situated below site 3396 and GPS is not easy. The site was descended in October 2013 and old spits and traces of red paint from previous Catalan(?) exploration were seen. A pitch of 18 m to a rebelay and a further 34 m to the floor. A cross rift comes in to the left below the rebelay. The entrance spit was noticed in August 2021.

Reference: anon., 2010b (Easter logbook); anon., 2013e (autumn logbook); anon., 2021c (summer \(2013 e(a)\)
logbook)
Entrance picture: yes
Underground pictures
```

Video:

```
Detailed Survey
Line Survey
On area survey :
Survex file

X
3398: shaft
Alisas 30T 4477534793737 (Datum: ETRS89 Alisas 30T 4477534793737 (Datu
Accuracy code: G) Altitude 715 m Area position

A small hole that needs enlarging. Only a few metres deep and light is visible from a possible second entrance.

Reference: anon., 2010b (Easter logbook) Entrance picture: yes

A small entrance to a cross passage where crawls extend 2 m to chokes in both directions.

Reference: anon., 2010b (Easter logbook) Entrance picture: yes Underground pictures
Video :
 Line Survey : On area surv Survex file
Reference: anon., 2010b (Easter logbook)
Reference: anon., 201
Entrance picture: yes
Underground pictures
Video :
Detailed Survey
Line Survey :
On area survey
Survex file
x
3401: cave
S Vega 30T 4514754795277 (Datum: ETRS89.
S Vega 30 T 4514754795277 (Dat
Accuracy code: G) Altitude 265 m
Accuracy code
Area position

A few metres east of site 3400 is a low
entrance well concealed by vegatation and a entrance well concealed by vegatation and peculiar "rampart" around the down-slope side. See also site 3400 and possible duplication of site 1351.

Reference: anon., 2010b (Easter logbook) Entrance picture: yes Underground pictures
```

Video:

```
Detailed Survey
On area survey
On area sur
Survex file

\section*{3402: cave}

Hornedo 30T 4477714801309 (Datum: ETRS89. Accuracy code: G) Altitude 119 m Length 12 m Depth 2 m Area position
A 12 m long cave, 2 m deep with no draught and a lot of dead animals. "Not pleasant."

Reference: anon., 2010b (Easter logbook) Entrance picture:
```

Underground picture

```
Video:
Detailed Survey
Line Survey
On area survey
Survex file

3403: diq
Hornedo 30T 4476984801217 (Datum: ETRS89. Horneao 30 T 4476984801217 (Da
Accuracy code: G) Altitude 123m Accuracy code
Area position

A draughting dig in boulders
Reference: anon., 2010b (Easter logbook)

\section*{A 4m long cave which draughts well and ne}

Reference: anon., 2010b (Easter logbook)
Reference: anon.,
Entrance picture:
Entrance picture:
Underground pictures
Video: Detailed Surve)
Line Survey : Line Survey
On area sury On area sury
Survex file :
x
3405: cave
Hornedo 30T 4476954801248 (Datum: ETRS89. Accuracy code: G) Altitude 120 m
An Accuracy code: G) Altitude 1
Length included in site 3415 Area position

Updated 2nd November 2010
A draughting dig which was excavated in A draughting dig which was excavated in
2010 and connected to site 3415 . See site 2010
3415.
Reference: anon., 2010b (Easter logbook); anon.,
2010c (summer logbook) Entrance picture
```

Underground pictures

```
Video :
Detailed Survey : sketch with 3415
Line Survey :
On area survey
:
Survex file :
X

3406: shaft
Hornedo 30T 4476134801010 (Datum: ETRS89. Accuracy code: G) Altitude 147 m [An alternative GPS is ETRS89: 30T 447612 4801002]

\section*{Area position}

Updated 5th November 2010; 21st May 2023

When searched for in April 2023, the entrance seemed to have been bulldozed out of existence.

A draughting dig which enters a 40 m shaft. The base extends down through boulders.

The Easter 2010 logbook has:
The hole in the shakehole near the road was The hole in the shakehole near the road was
dug open, inspected at the top and then the dug open, inspected at the top and then the second pitch ( 40 m ish)
choked at the bottom.
choked at the bottom.
A boulder slope partway down the pitch can A boulder slope partway down the pitch can
be swung into. Up the slope some vertical be swung into. Up the slope some vertical
jammed boulders with a lot of space above suggested a return was required with more gear plus back-up. During two more trips the boulder step was climbed over and a horizontal, 10 m long, decent sized passage led to a hole immediately before the passage ended at a run-in from above. A descent of 40 odd metres via another boulder slope and a couple of re-belays landed at the bottom of a big rift on another sloping boulder floor. At the bottom of this the rift choked, the way on being a continuing slope downwards to the left into a small chamber. The way out of this led into a big choked area. Back in the rift at into a big choked area. Back in the rift at
the bottom of the pitch the way upslope the bottom of the pitch the way
eventually seemed to peter out.

The cave needs surveying plus another good look, not least to find the source of the strong draught felt at the entrance. Reference: anon., 2010b (Easter logbook); anon.,
2010b (Easter logbook); Corrin Juan, 2011; anon., 2023b (Easter logbook) Entrance pictures: yes Underground pictures : yes Video : Detailed Survey On area surve Survex file :
choked area. A side passage partway down investigated but narrowed and choked. Not yet surveyed - that could be fun.
```

Reference: anon., 2010b (Easter logbook
Entrance pictures:

```
Entrance pictures:
Video :
Detailed Survey
Line Survey
On area sur
Survex file

\section*{3408: cave}

San Antonio 30T 4457474801703 (Datum: ETRS89. Accuracy code: G) Altitude 105 m Length \(3 n\) Area position

Updated 5th November 2010
A low entrance in the side of a shakehole is followed immediately by an awkward wriggle to the right and a 3 m descent of a small shaft to a choked floor. At the entrance, a very narrow vertical slot, around 2 m or so deep, had a slight draught and the floor appeared to slope away to the left. Slot would require opening up to allow access to normal thin people.
```

Reference: anon.,

```
Underground pictures
Video:
Detailed Survey
Line Survey
On area survey
On area su
Survex file
3409: cave
La Secada 30T 4520744796899 (Datum: ETRS89
La Secada 30T 4520744796899
Accuracy code: G) Altitude 176 m
Accuracy co
Length 3 m
Area position
Updated 23rd May 2015
A crawl to a small, stand-up height
chamber.
Reference: anon., 2010b (Easter logbook)
Entrance pictures: yes
Underground picture
Video :
Detailed Sur
On area surve
On area sur
Survex file

3410: shaft
San Antonio 30T 4458594801747 (Datum:
ETRS89. Accuracy code: G) Altitude 113 m ETRS89. Accuracy code: G) Altitude 113 m Area position

A pot in the base of the shakehole that contains site 3046 .

Reference: anon., 2010b (Easter logbook) Entrance pictures.
```

Underground pictur

```
Video
Detailed Survey
Line Surve
On area su
Survex file :
x

3411: shaf
Depth 2 m
Updated 23rd May 2015

A tight rift descends below a choked cave, 1.5 m above. There may be a way on. A small stream has been seen to cascade down into the rift

Reference: anon., 2010b (Easter logbook) Entrance pictures: yes Video :
Detailed Survey
```

Vnderg
Detailed Surve
Line Survey
On area survey

```
Survex file :
X

3413: Corillos, Cueva de los Hornedo 30T 4475674801285 (Datum: ETRS 89 Accuracy code: G) Altitude 109m
Length 82 m Depth 6 m Area position

Updated 2nd November 2010
A walk-in entrance in a small cliff. A sink part way along the main passage is being dug Various large bones have been discovered and these are documented here There is a slight draught, good in places.

Reference: anon., 2010b (Easter logbook); anon.,
2010c (summer logbook); Corrin Juan, 2011 Entrance pictures: yes
Underground pictures: yes
Miscellaneous pictures: bones discovered 2010 Video:
Letailed Surve On area survey On area survey :
Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.) x
3414: cave
 Hornedo 30T 447670 4801252 (Datum: ETRS89 Accuracy code: G) Altitude 117 m Length 3 m

A small 3 m chamber.
Reference: anon., 2010b (Easter logbook) Entrance pictures: Underground pictures Video : Detailed Survey Line Survey On area surve
Survex file :
x
3415: cave
Hornedo 30T 447703 4801268 (Datum: ETRS89.
Accuracy code: G) Altitude 120 m Hornedo \(\begin{aligned} & \text { code: G) Altitude } 120 \mathrm{~m} \\ & \text { Accuracy } \\ & \text { Length } 30 \mathrm{~m} \text { Depth } 8 \mathrm{~m}\end{aligned}\) (
Area position
Updated 2nd November 2010
A straight rift goes 25 m into the hillside. A last of a series of three pitches is an 8 m free climb down to muddy sink. The other pitches link in (see sketch). Beyond the 3rd pitch is the entrance of site 3405 .

Reference: anon., 2010b (Easter logbook); anon.,
2010c (summer logbook) Reference: anon., 2010b
2010c (summer logbook) Entrance pictures Underground pictures
Video : Video:
```

$$
\begin{aligned}
& \text { Video: } \\
& \text { Detailed Survey : sketch } \\
& \text { Line Survev: }
\end{aligned}
$$

```
\[
\begin{aligned}
& \text { Line Survey } \\
& \text { On area surv }
\end{aligned}
\]
\[
\begin{aligned}
& \text { On area surve } \\
& \text { Survex file : }
\end{aligned}
\]

Survex file
X
3416: shaft
Hornedo 30T 4475944801127 (Datum: ETRS89 Accuracy code: G) Altitude 132 m Length 30 m Depth 25 m Area position

Updated 10th, 16th, 20th January 2011
A 7 m shaft which lies about 75 m from the road. The landing is in a rift where where the east end is choked and the west end leads to a 3 m climb up and down through a eye hole. Four metres on is a small chamber eye hole. Four metres on is a small cha
with a tight exit through which a small with a tight exit through which a small chamber can be seen and rocks seem to fall
about 6 m . bout 6 m .
The site was excavated to about 25 m depth over Christmas 2010 and a good draught was present despite poor weather conditions.

This site may also be catalogued as 3173 .
Reference: anon., 2010b (Easter logbook); anon., Reference: anon., 2010b
2010d (autumn logbook)
Entrance pictures
Underground pictures : yes
Video:
Detailed Survey : sketch in logbook : sketch Line Survey
Survex file : Dummy survey on Hornedo area survey
x
3417: dig
Hornedo 30T 4475934801157 (Datum: ETRS89. Accuracy code: G) Altitude 128 m
Area position Area position

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\[
\begin{aligned}
& \text { A possible dig, but site } 3419 \text { may be a } \\
& \text { better option. (Also see site } 3418 \text { ) }
\end{aligned}
\]

Another possible dig (see site 3417), but site 3419 may be a better option.
```

Reference: anon., 2010b (Easter logbook)
Reference: anon.,

```
Entrance pictures:
Underground pictures
Video :
Detailed Surve
Detailed Su
Line Survey
On area sur
On area sur
Survex file
X
3419: sink
Detailed Sur
Line Survey
On area surv
Survex file
x

3420: Hovo Carabo, Torca de (Washing Machine Hole

\section*{Accuracy code: A) Altitude}

Area position

Updated 1st May, 28th September, 29th November 2012; 30th April, 8th Octobe 2013; 25th May 2014; 5th January 2015 18th April 2016; 23rd' January 2018

The sandy crawl fills up with water and sand and silt, taking 3 days to re-excavate in the summer 2012. The cave should not be summer entered if rain is forecast. The entrance entered if rain is forecast. The entrance
crawl was found to be silted up and sumped and no draught detected in November 2012. In the summer 2013, the underground dam In the summer 2013, the underground dan was found destroyed and there was some digging to clear the entrance crawl blockage. The crawl was re-excavated of sand an boulders before pushing could start at Easter 2014.

The large cave entrance is at the bottom of a long, wooded gulley. A climb down 4 m onto farm rubbish enters a descending passage past a washing machine and narrowing rift passage. A flat out, slightly draughting crawl at the end has been excavated to reveal "another 170 ft of passage down a 18 ft pitch. "Mainly walking size passage ending in blind holes in the floor"

A passage on the south side of the cave is comfortable walking with a mass of helictites on the left wall and leads to a number of holes in a calcited floor requiring care to pass overhangs. A traverse line has been installed on the second hole which has been descended for 12-13m but may continue at descended for \(12-13 \mathrm{~m}\) but may continue at the draughting base. Beyond further walking passage, a third hole has an estimated 50 m depth (see below). On the traverse line out to pit 3 a "number of bolts did not tighten as expected probably due to the soft rock. continuation of the traverse over the p4 (Easter 2014) leads to an 11 m pitch into a well decorated area with no way on
At Easter 2013, several days digging out of the entrance allowed exploration down the p48. A smaller p4 followed then 15 m o horizontal passage to a much smaller way on. Flood debris was found \(4-5 \mathrm{~m}\) above the floor at this point. The very tight passage at the lowest point in the cave was pushed in April 2014 to an 8 m pitch which was passed in November 2014. A tight route and poo meant drilling was not possible and natura belays were used and a feet-first approach to the head of the pitch. At the base, after 30 m aven, there is a short length of large passage. To the left, a rock bridge has a jaw

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bone and the route continues down a series of small climbs to end at a \(U\)-shaped, tight crawl that appears to continue.

In November 2014, an undescended p16 at the end of one of the upper level sid assages was dropped. After 15 m of rift assage the route enters the main pitch about 5 m below the traverse to the pitch head

In November 2015, the cave was found to be "not passable" but was draughting out.
(Two holes 7 m above the entrance, on a ledge, have
been documented as site 3779 .) been documented as site 3779.)

Reference: anon., 2011e (autumn logbook); anon., Reference: anon., 2011e (autumn logbook); anon.
2012b (Easter logbook); anon., 2012d (summer
logbook); Corrin Juan, 2013a; anon., 2013b (Easter 2012b (Easter logbook); anon., 2012d (summer
logbook); Corrin Juan, 2013a; anon., 2013b (Easter
logbook); anon., 2013d (summer logbook); anon., logbook); anon., 2013d (summer logbook); anon
2014b (Easter logbook); anon., 2014d (autumn 2014b (Easter logbook); anon., 2014d (autumn
logbook); anon., 2016b (Easter logbook) (November
ance 2015 logbook account pasted here) Underground pictures : Underground pictures : 2011 : 2012 : Easter 2013 Video :
Detailed Survey : sketch : sketches from Alex Ritchie plan \& elevation plan (Does not include the end section of the initial exploration high level passage that ends withÂ three pits and a sand lockage.) Line Survey :
Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid an December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.
x
3421: cave
Cobadal 30T 4489174798235 (Datum: ETRS89. Accuracy code: G) Altitude 253 m Length 15 m
Area position

Updated 2nd November 2010
A walk-in entrance at the top of the field above the house. A chamber stretches back to a walled crawl that enters a small phreatic pocket where a possible, long term dig stretches off. On the left of the entrance chamber, near the back, a small passage leads off that hasn't been pushed due to the presence of a bat. On the same side, closer to the entrance, a tiny alcove had a few stones removed to reveal a small cache of stones removed to reveal a small cache of bullets, possibly stored in an accompanying
rusty "pepper pot" which had fragments of rusty "pepper pot which had fragments of
newspaper. These remains were given to the newspaper.
house owner.

\section*{Reference: anon., 2010b (Easter logbook) Entrance pictures: yes Underground pictures: yes Dideo : Line Survey : On area surve
Survex file : \\ x \\ 3422: cave \\ San Antonio 30T 4460744801114 (Datum:
ETRS89. Accuracy code: G) Altitude 110 m Length 90 m Depth 10 m \\ Area position}

Updated 5th November 2010; 25th May 2014; 6th January 2014; 6th January, 12th May, 24th September 2018; 8th June 2019

An excavated, draughting entrance at the base of a big, flat-bottomed depression near the old telephone exchange that drops into small joint controlled "mini-system" with a number of leads, some of which are described in this logbook account from the summer 2010 work.

Work was planned to cap a boulder in the draughting choke at the end of the cave in draughting choke at the end of the cave i
April 2014, but access was refused by a April 2014, but access was refused by a
farmer renting the field from the owner whe farmer renting the field from the owner who
lives in a nearby house. Permission from the lives in a nearby house. Permission from the
owner has now now been granted for future owner has now now been granted for
work - but it is best to turn up at the weekend when he might be around!

A visit in March 2018 recorded extensive logging work in the area but the site "still exists". It was (re-)surveyed in April 2019 to include new passage, increasing the surveyed length from 50 m to 90 m .
\begin{tabular}{l} 
Reference: anon., 2010b (Easter logbook); anon., \\
2010c (summer logbook); Corrin Juan, 2011; anon., \\
2014b (Easter logbook); anon., 2014d (autumn \\
logbook); anon., 2018b (Easter logbook); anon., \\
2019b (Easter logbook) \\
Entrance pictures: 2010 \& 2018 \\
Underground pictures : yes \\
Video: \\
Detailed Survey : 2010 \\
Line Survey : \\
On area survey : \\
Survex file : April 2019 \\
X \\
\hline MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 \\
Volume \(5-\) page 71
\end{tabular}

\section*{3423: cave}

\section*{3428: shaft} S Vega 30T 4502154794912 (Datum: ETRS89 Accuracy code: G) Altitude 428 m Length 12 m Depth 8 m Area position

A 4 m pitch into a passage on the left, some 6 m high, sloping down to a choke after 5 m . Reference: anon., 2010c (summer logbook); Corrin uan, 2011 Entrance pictures: yes Undergr
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Detailed S

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\[
\begin{aligned}
& \text { Detailed Surve } \\
& \text { Line Survey : }
\end{aligned}
\]
On area surve
Survex file :

X

\section*{3429: cave}
zzana 30T 4539034795136 (Datum: ETRS89 Accuracy code: G) Altitude 235 m Length \(2 m\)

A small entrance under a limestone face leads to a body-length crawl and a mud choke.

\section*{Reference: anon., \\ Entrance pictures:}
```

Underground pictur

```
Video:
Detailed Survey
Line Survey
On area surve
Survex file:
X
3430: dig
Riaño 30T 452073 4799375 (Datum: ETRS89
Accuracy code: G) Altitude 253 m
Area position
Updated 25th May 2011

A dig at the foot of a crag in a doline. The way on can be seen but there is no way on can be seen but there is no required to make further progress does not required to make further progress does not seem to balance with its potential; to other the dig seems worth a day or two of effort. [The original GPS had the site in the field to the
northeast.] northeast.]

Reference: anon., 2010c (summer logbook); anon. 2011b (Easter logbook) Entrance pictures: yes
Underground pictures Video:
```

Detailed \
Line Survey:

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On area surve
Survex file :
x

\section*{3431: shaft}

La Gatuna 30T 4502924799680 (Datum: ETRS89. Accuracy code: G) Altitude 301 m
Area position
Purposely fenced off shaft solidly filled with lorry tyres. It is possible to see beyond. Site is situated directly up the slope from a 'deposito', just below two thorn trees. Undescended.

Reference: anon., 2010c (summer logbook) Reference: anon., 2010
Entrance picture: yes Underground pictures Video : Detailed Survey :
Line Survey : Line Survey Survex file :
x
3432: cave
Mullir 30T 4554224795266 (Datum: ETRS89 Accuracy code: G) Altitude 700 m Accuracy cod
Area position

A small rift at the base of cliff which has no draught and could possibly be a winter draught anc
resurgence.

Reference: anon., 2010c (summer logbook) Entrance picture Underground pictu Detaile
Line Survey: On area surve Survex file :
x
3433: cave
Mullir 30T 455248 4795381 (Datum: ETRS89 Mullir 30 T 455248 4795381 (Datur
Accuracy code: G) Altitude 717 m
Area position

An alcove.
Reference: anon., 2010c (summer logbook) Entrance picture

\section*{3434: shaf}

Cruz Llorada 30T 4503944797721 (Datum ETRS89. Accuracy code: G) Altitude 516 m Depth 4m Depth 4 m
Area position

An undescended shaft with ash and other trees surrounding it.

Reference: anon., 2010c (summer logbook) Entrance picture: yes Underground pictures
```

Video :

```
Detailed Survey
Line Survey:
On area survey
On area sur
Survex file
Surve

3435: shaf
El Naso 30T 4505684797474 (Datum: ETRS89 Accuracy code: G) Altitude 489 m

\section*{Length 5 m Depth 5 m}

Area position
Updated 4th October 2015
A shaft with an ash tree. The 5 m drop ends at boulders.

Reference: anon., 2010c (summer logbook); anon. 2015c (summer logbook) Entrance picture: yes
```

Underground pictur

```
Video
Detailed Survey
Detailed Sur
Line Survey
Line Survey
On area sur
On area sur
Survex file :

3436: hole
S Vega 30T 4508144795158 (Datum: ETRS89 Accuracy code: G) Altitude 318m Arcuracy cod

A rock-covered, draughting hole.
Reference: anon., 2010c (summer logbook) Entrance picture: yes Entrance picture: yes
Video :
Detailed Survey
Line Survey
On area survey
Survex file

\section*{3437: cave}

S Vega 30T 4509624795324 (Datum: ETRS89 Accuracy code: A) Altitude 316m Area position

This site is the top entrance to site 1538 although there is some confusion. However although there is some confusion. Howeve the two pictures of the entrance below are the same, 13 years apart.

Originally, this was a cave at 30T 450988 4795340: A 2 m climb in a cliff to 4 m of passage with an aven. This should be checked out at the grid reference

Reference: anon., 2010c (summer logbook)
Reference: anon., 2010c (sum
Entrance picture: 2010, 2023
Underground pictures:
Video :
Detailed Survey Line Survey: On area sur Survex file

3438: shaf
S Vega 30T 4505384795166 (Datum: ETRS89 S Vega 30T 4505384795166 (Da
Accuracy code: G) Altitude 375 m Accuracy code
Area position

A shaft in a rift.
Reference: anon., 2010c (summer logbook)
Entrance picture: yes Entrance picture: ye Underground pictures
Video :
Detailed Survey
e Survey
On area sur
Survex file :

3439: shaf
San Antonio 30T 4466484801424 (Datum: ETRS89. Accuracy code: A) Altitude 103 m Length 8 m Depth 8 m Area position
```

boulder floor.

```
The logbook entry states: [From site 3605] a
lownhill walk finds a faint track E-W along the
ontours of the wooded hill along an old rotten ence. A few minutes walking finds a shaft next to a tree on upside of faint track.

Reference: anon., 2011e (autumn logbook)
Entrance pictures: Underground pictures
```

Underground pict

```
Video :
Detailed Surv
On area surve
Survex file
X

3440: cave
Riaño 30T 4514454800708 (Datum: ETRS89. Accuracy code: G) Altitude 152 m Length 10 m Depth 4 m Area position

A low entrance under a small rock outcrop. A sideways crawl opens out at the top of a 3.5 m pitch, choked at the bottom.

Reference: anon., 2010c (summer logbook) Entrance picture: yes Underground pictures : yes Video:

\section*{Detailed Sur}

 Survex file :

X
3441: cave
Cobadal 30T 448918 4797351 (Datum: ETRS89 Accuracy code: G) Altitude 359 m Length 9m
A cave, 9 m long and 4 m high, under a sandstone roof. The small entrance is just below the fence.

Reference: anon., 2010c (summer logbook) Entrance picture: yes Video:
Detailed Survey Line Survey : On area surve Survex file

\section*{Length 45 m
Area position}

Updated 30th April 2013
A enlarged 1 m by 0.5 m entrance at the foo of an eucalyptus plantation draughts strongly. An excavated crawl leads after 4 m to an enlarged but still tight squeeze. At Easter 2013 this crawl was found to have become filled up and needed much excavation for re-exploration. (A layer of mud was found over previous capping holes.) This may be due to drainage during rain from the plantation, and also animal action. After the squeeze turning right passes another squeeze then a junction. Left leads to a calcite choke with a dig on the left, while on the right an awkward climb is followed by an 8 m (undescended) pitch connecting to the Espada streamway about connecting to the Espada streamway about
80 m from the main upstream entrance of that cave.
(The length above should be incorporated into the length of Espada)

Reference: anon., 2010c (summer logbook); Corrin
Juan, 2011; anon., 2013b (Easter logbook) Juan, 2011; anon., 2013b (Easter logbook) Entrance picture: yes
Underground pictures: yes
Video : Finding the entrance, Easter 2013 Video : Finding the entrance, Ea
(YouTube)
Detailed Survey : sketch: pdf
Line Survey
On area survey
Survex file : stand alone (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.)
on Espada centre line (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.)
x
3443: dig
Riaño 30T 4509724800767 (Datum: ETRS89 Accuracy code: G) Altitude 125 m Length \(2 m\)

A small entrance under a small outcrop that becomes too tight only 1.5 m in.

Reference: anon., 2010c (summer logbook) Entrance picture: yes Underground pictures
Video: Video
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\section*{Detailed Sur
Line Survey}

\title{
Updated 25th May 2011
}
```

(Originally a duplicate of site 920.

```
An \(2 m\) drop with an easy dig into a small
chamber.
Reference: anon., 2010c (summer logbook); anon., 2011b (Easter logbook Entrance pictures: ye
```

Underground pictures: y\epsilon

```
Video :
Detailed Survey
On area survey
On area sur
Survex file

\section*{3445: holes}

Mullir 30T 4552204795295 (Datum: ETRS89. Accuracy code: G) Altitude 722 m

\section*{Length 12 m Depth 7 m}

\section*{Area positio}

A 5 m climb down in a shakehole through "brambly boulders".Back underneath the right corner of the depression as you step into it, the ongoing rift is too small. On th opposite side of the shakehole a 7 m climb down in a rift is choked with flowstone.
```

$$
\begin{array} { l } { \text { Reference: anon.,} } \\ { \text { Entrance picture} } \end{array}
$$

```
Underground pictures
Video :
Detailed Survey : sketcl
Line Survey :
On area survey
Survex file
3446: hole
Mullir 30T 455253 4795321 (Datum: ETRS89
Mullir 30T 455253 4795321 (Datu
Accuracy code: G) Altitude 720 m
Accuracy code: G) Alti
Length 2 m Depth 2 m
Length 2 m D
Area position
A very small hole which is too tight and has
no draught.
Reference: anon., 2010c (summer logbook)
Entrance picture
Entrance picture:
Underground picture
Video:
Detailed Sur
Line Survey
Line Survey
On area sur
Survex file

\section*{3447: shaft}
Mullir 30T 4552984795490 (Datum: ETRS89.
Accuracy code: G) Altitude 695 m
Length 15 m Depth 7 m
Area position

A 7 m rifty pitch bells out into an \(8 \times 4 \mathrm{~m}\) chamber, full of flowstone and covered with moonmilk. A bedding plane to one side is too low to follow.

Reference: anon., 2010c (summer logbook)
Entrance picture

This site is described in León García José, 2010 (Volume 1 and Volume 2). (Cantabria The shaft was explored in 1984 by the GESCAT team. A 110 m pitch descends to a number of much smaller drops.

Reference: León García José, 2010 (Volume 1 and olume 2) (survey) Entrance picture.
Underground picture(s) Detailed survey: elevation from León García José, 2010 (Volume 1 and Volume 2). (Cantabria Subterránea. Catálogo Grandes Cavidades.) Line survey:
On area surve
Survex file:
X
3450: El Suto, Torca

\section*{San Antonio 30T 4459494800807 (Datum} length 216 m Depth 84 m Area position

Updated 25th May, 16th, 24th October 2011; 7th January 2018; 21st May 2023

Pulley and slings were required to remove tyres out of this hole. A hole through the yres near the track gave 10 m of passage At the opposite side a dig down the slope came to a tight section. This was passed to a 10 m pitch to a chamber with bags of dead cows, tyres and bones. There are three downward ways off. One goes to a drop whch takes 4-5 seconds for rocks to hit the bottom.
However, a bolt was found at the top of the 35 m pitch and further exploration has been suspended pending a serarch for more information re previous exploration. There is a lot of loose material on the pitches.

Further explorations occurred over Easter 2011 and the following description was written after these trips

El Suto is situated 200 m along the right track and into a small copse immediately in the field on the left. It appears to have been partly explored earlier judging by the evidence of spits in some places. The rock is oose and friable in many places. Nearly all the development of the hole consists of the development of the hole consists of
shafts elongated along \(261^{\circ}\) magnetic.
The main entrance (now with tyres strewn round) is a covered 1 m by 2 m slit in wet earth with a solid back wall into which two spits for a Y-hang have been placed about 1.5 m down for a rope length of 15 m . A second entrance emerges from inside tyres in an adjacent hole and joins the shaft a couple of metres below the Y -hang. It is advantageous to hang a 12 m ladder from the base of trees to reach a muddy threeways chamber strewn with tyres, bones and ther rubbish. In most weathers a dribble of water falls from under a sandstone shelf 3 m down from the entrance to sink in the first chamber
Under a shelf in the chamber to the left a 2 m slanting climb down leads to a 4 m scramble to a point where the passage is to tight. It leads to shafts seen below, judging y voice connection.
Ahead, along the \(250^{\circ}\) magnetic bearing s 1 m wide passage that leads after 12 m to the head of a pitch. There is an old spit low in the right wall. The rope from the right wall Y-hang leads down 3 m to a deviation made by placing a loop over a large stalagmite. There may still be loose material in this shaft. It soon widens out into a 32 m drop onto a wide boulder shelf. A window ahead looks down on an almost circular shaft which is also gained either by climbing down large blocks or using a re-belay off th nose of a buttress. There are shafts and climbs along the opposite bearing that lead back toward the shafts below the entrance. From the bottom of the climb from the 35 \(m\) shaft a short 5 m scramble leads down to an eye-hole into a 7 m climb into a short oulder slope to a tight take-off on the next pitch with one spit. Rope access of 12 m eads to a short passage that soon becomes too tight.
Back in the entrance chamber on the opposite \(81^{\circ}\) bearing a short muddy slope below the ladder has a \(Y\)-hang to a 18 m pitch below a large jammed boulder into a three-way chamber. On the \(250^{\circ}\) bearing a
short climb leads to the head of a wet 12 m short climb leads to the head of a wet 12 m pitch to a boulder strewn floor. Climbs over large blocks reach the shafts seen from the pposite side below the 32 m shaft.
In the other direction from the base of the 18 m pitch a short climb down leads to the start of a traversable rift. A hole to the right at this point is a dog leg leading to a paralle which, after 10 m or so, gets too wide to raverse and was disto pinged to 12 m depth There is a continuation beyond this which appears to lead to a further shaft which is undescended. This does not appear to

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and needs a short traverse line rigging to
see if it opens out or continues.
Continuing across the traversable rift a bridge is reached from where a series of three Y hangs lead to the top of the 13 m third pitch, which lands on a ledge which is the start of the fourth pitch, again 13 m . The landing leads immediately to the fifth pitch and has been distoed to 24 m .

At the top of the fifth pitch it's possible to look along and down the rift to a ledge below in an undescended parallel shaft, which has also been distoed to 24 m . Stones thrown at this ledge continue dropping beyond the ledge for some distance. It appears that this shaft can be reached by descending the fifth pitch part way and then a traverse would need to be rigged.

The lowest point shown on the current survey ( \(24 / 10 / 2011\) ) - point 15 - is the top of the fifth pitch, at -64 m . Adding 24 m for the fifth pitch takes the cave to -88 m (or 70 m altitude) and, as stones are dropping below this level, it would appear that the cave is dropping to around 60 m altitude or lower. Assuming that Aguanaz is the nearest resurgence at 50 m , should there be any horizontal development, El Suto could be significant in that it could be potentially give us access to a new system to the northwest of Aguanaz.

The big shaft is reached by hanging a rope from a series of \(3 Y\)-hangs, the drop from the last being an estimated 15 m to a ledge where the other side of the rift slopes to meet the base leaving a shaft 1 m under the right wall. The base of the shaft pinches in to a small rift in the floor. Stones dropped from above suggest that it opens out below the pinch with an estimated depth of at least 20 m . Hence the estimated depth from the first \(Y\)-hang is \(5+15+15+20=55 \mathrm{~m}\) Therefore the estimated total depth at 29-\(04-2011\) is \(13+18+55=86 \mathrm{~m}\)
A G Latham and Phil C Goodwin. Additions T Brocklebank.

A survey was started in the summer 2011, Batches 11-01 and 11-02 have been drawn up and await further surveying. (Length 139 m ; depth 64 m )

The site was totally (?) (re-)surveyed in April 2023, giving a final depth of 84 m and 216 m length.
The following description of the entrance and the Right Hand (East) Series is by members of the Imperial College Caving Club:

If parking by the small inlet opposite the field, walking diagonally across the field bearing slightly right rapidly brings you to tree line. About 50 m down this path, a pothole is found 5 m to the left of the path Previously filled with a selection of large tyres that have been hauled out to clear the entrance, the entrance pitch is a \(\sim 15 \mathrm{~m}\) spiralling slope, to be rigged by a 22 m rope. The topmost attachment point is the nearby tree, which provides two anchors. There are two deviations on the way down - one from a spit (from previous way down - one from from a newly bolted through bolt, both about 3 m apart. Just before the final drop a through-bolted rebelay provides a clean drop to the tyre-filled chamber

Here there are two ways down - one directly behind where the rope drops dowr (the 'left route'), and one down a small climb to the top of a pitch (the right route The left route has two spits of questionable vinge which was left undescended by ICCC in 2023. A long traverse line was rigged from the middle of the chamber down the Climb leading to the right route until the pitch head was reached. This traverse passes some pretty formations, and the top of the pitch head is also well decorated

Here a Y-hang of new through bolts drops was bolted in 2023. A long deviation was rigged off of the large stalagmite to allow a loan drop all the way to the bottom of the chamber. This is a \(\sim 30 \mathrm{~m}\) drop, lined with fragile formations and various nooks and crannies along the walls

At the bottom of the pitch, there is a mall inlet that leads away from the dro which quickly chokes and dies, despite looking to be a connection on the original survey.

The obvious way on down a \(\sim 15 \mathrm{~m}\) climb was rigged with a loose traverse line, leading to a squeeze at ankle height that opens up into a 3 m drop. The small chamber that this drops into contains a false floor, a small crevice on the right hand sid leads to the final pitch. This squeeze is slightly tighter than the previous, and

At the bottom of this, a crack in the wall pears to lead on to a passage below, however is too tight to be passable by any easonably sized human. If this were to be widened, it is possible that the passage elow continues, as there is no end visible from the chamber.

The final pitych in the Left Hand (West) Series was also dropped to an end with no eads. It is suggested that there may be a traverse over the top of the pitch to a continuing horizontal passage. There could also be another similar lead higher up the cave. Reference: anon., 2010c (summer logbook); Corrin
uan, 2011; anon., 2011b (Easter logbook); anon., 2011d (summer logbook); anon., 2011e (autumn logbook); anon., 2023b (Easter logbook) Entrance pictures: summer 2010 : Easter 2011 : Easter 202
保 Video 2011: 2023
Line Survey
On area survey :
Survex file : 2011 (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014. x

3
3451: shaft
Riaño 30T 4513544801321 (Datum: ETRS89 Accuracy code: G) Altitude 188 m Length 144 m Depth 22 m

Updated 16th October, 1st December 2011
draughting dig in the base of a large shakehole which was blocked with mud boulders and red roof tiles. A small gulley behind the depression has a possible hole under a tree and a tiny spring higher up.

In 2011 the site was excavated to reveal an 1 m shaft with a 3 m climb to a sandy floored soakaway. About 8 m down the shaft an eyehole was pushed into an aven some 6 m high. A tight squeeze enters a small chamber with the draught coming through a boulder choke. In the autumn, 2011 the site was re-explored looking for the lost draught. his was followed to a small chamber with no obvious way on.

In the summer, 2012, the draught was relocated coming through boulders at the ottom of the pitch. A dig, angled at 45 egrees, drops into a rift which meanders around to the top of a 5 m tight pitch. This drops into various squeezes and avens but drops into various squeezes and avens but the draught is lost. It is found again at the top of the pitch and into a side passage. An aven has an excavated small tube of calcite boulders which draughts strongly. A passage. A strong draught and a good echo encourages digging.
The hole is described as "a hard, tight trip".
Reference: anon., 2010c (summer logbook); anon 2011d (summer logbook); an logbook); Corrin Juan, 2013 a
Entrance picture: 2010 : exploration 2011 Underground pictures : 2012
Video : draughting hole (YouTube) Detailed Survey : pdf Line Survey : On area survey Survex file : yes (Amended magnetic declination ecember 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014. x
3452: cave San Antonio 30T 4459634800833 (Datum ETRS89. Accuracy code: G) Altitude 158 m Area position

This site is next to and below a track and is a small hole hole with a draught under sandstone bed where the draught is lost i sandstone blocks.

Reference: anon., 2010c (summer logbook); Corrin Juan, 2011 Entrance picture: yes Video
```

Video
Detailed Survey
Detailed Su

``` On area surve Survex file
\(x\)
3453: cave
San Antonio 30T 4459624800852 (Datum ETRS89. Accuracy code: G) Altitude 157 m Area position

Updated 7th January 2018
A cave entrance below the track, blocked MATIENZO UNDERGROUND - site descriptions (printed 19002/202
\[
\begin{aligned}
& \text { with rock and floor tiles. Has been } \\
& \text { excavated but there is no draught. }
\end{aligned}
\]
Video :
Detailed Survey
Line Survey
On area survey
On area sur
Survex file
x
3454: Llanío 2, Cueva-Cubio del
Riaño 30T 4516984800898 (Datum: ETRS89.
Accuracy code: G) Altituc
Length 74 m Depth 26 m
Length 74 m
Area position
Updated 1st December 2011; 25th May
2014

A "cold store" pointed out by the land owner. A fenced hole beside a tree has owner. A fenced hole beside a tree has a
walled opening with steps down. After about walled opening with steps down. After about 27 m an 11.3 m pitch can be descended int a 20 m long, 5 m wide chamber. A further pitch drops 8 m down through boulders to highly unstable choke. The final chamber was re-examined in the autumn, 2011, but there is "no chance of digging". A tight rift part way down the pitch on the left hand side would require snappers to enlarge the first couple of metres.
The site was re-examined in April 2014, but the boulders at the base of the pitch were "not considered worthwhile". A hole in the mud slope was found to connect to known passage.

Reference: anon., 2010c (summer logbook); Corrin Reference: anon., 2010c (summer logbook); Corrin
Juan, 2011; anon., 2011e (autumn logbook); anon., 2014b (Easter logbook) Entrance picture: ye
```

Underground pictures: ye

```
Undergr
Video :
Detailed Survey : yes
Line Survey :
On area survey :
Survex file : yes (Amended magnetic declination
Survex file : yes (Amended magnetic declinati
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.)
x
3455: dig
San Antonio 30T 4456374800966 (Datum:
ETRS89. Accuracy code: G) Altitude 94 m
Area position
A "freshly covered hole which needs a dig to
investigate".
Reference: anon., 2010c (summer logbook)
Entrance picture: yes
Video :
Detailed Survey
Line Survey :
On area surv
3456: cave
Llueva 30T 453958 4798181 (Datum: ETRS89,
Llueva 30T 453958 4798181 (Dat
Accuracy code: G) Altitude 335 m
Accuracy code: G) Altitu
Length 14 m Depth 3 m
Length 14 m
Area position
An excavated hole at the side of road
against a cut back scar. A collapse which
against a cut back scar. A collapse wh
goes to a 7 m drop and a c 20 cm wide
goes to a 7 m drop and a c20cm wide
streamway with an inward summer draught.
streamway with an inward summer draught
It might be worth a look by a very fit and
thin person.
Reference: anon., 2010c (summer logbook)
Entrance picture: ye
Underground pictures : yes
Video:
Detailed Survey : yes
Line Survey
On area survey :
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.)
3457: dig
Riaño 30T 451727 4800475 (Datum: ETRS89
Accuracy code: G) Altitude 149 m
Length 2 m
Area position

The upper of two caves, the other being site 3458. Loose rocks have been removed to enter a 2 m cave to where it lowers under false floor of stal. Further progress would need the floor lowering back to the entrance. There is a slight outward draught.

Reference: anon., 2010c (summer logbook) Entrance picture: yes

The lower of two caves, the other being site 3457. This heads straight for the upper site and has a reasonable outward draught. However, it would need a fairly large-scale dig.

\section*{Reference: anon., 2010c (summer logbook)} Reference: anon., 2010
Entrance picture: yes
Underground pictures Underground picture
Video : Video : Detailed Surve
Line Survey : Line Survey : On area sur
Survex file :
X

3459: resurgence San Antonio 30T 4458964800206 (Datum:
ETRS89. Accuracy code: G) Altitude 195 m ETRS89. Accuracy code: G) Altitude 195 m Area position A resurgence which is a small hole at the base of a dark and prickly shakehole. The ow entrance on sandstone is full of flies and goes for about 10 m to an area of clay and a strong smell of sewage. Continues low, wet and smelly.

\section*{Reference: \\ Juan, 2011}

Entrance picture:
```

Underground pictur

```
Video:
Detailed Surve
On area survey:
Survex file :
X

3460: dig
S Vega 30T 4513894794368 (Datum: ETRS89. S Vega 30T 4513894794368 (Dat
Accuracy code: G) Altitude 500 m
Area position

Updated 17th October 2011
A draughting dig, excavated on a number of occasions. In August 2011, a small chamber was reached in this hole with a rift but there was no draught on that occasion. One of the holes in the "Mess" area along with sites 894, 3461, 3462 and 3463.

Reference: anon., 2010c (summer logbook); Corrin uan, 2011; anon., 2011d (summer logbook) Entrance picture: yes Video : Digging in the Mess area : 109Mb mpg : 9Mb wmv
Detailed Survey Detailed Surve
```

On area survey : the Mess area map

```
Survex file :

X
3461: dig
S Vega 30T 4513834794392 (Datum: ETRS89. S Vega 30 T 4513834794392 (Dat
Accuracy code: G) Altitude 500 m Accuracy code
Area position

\section*{Updated 17th October 2011}

A draughting dig, excavated on a couple of occasions to reveal a bedding on the left occasions to reveal a bedding on the left
which seems too low. Following the draught which seems too low. Following the draught to the right has opened up a strongly
draughting bedding but more work is draughting bedding but more work is
required to see into it. More excavation required to see into it. More excavation occurred in August 2011 but no real
progress made, although the site was still progress made, although the site was still
draughting. One of the holes in the "Mess" draughting. One of the holes in the Mess
area along with sites \(894,3460,3462\) and 3463. Reference: anon., 2010c (summer logbook); Corrin
Juan, 2011; anon., 2011d (summer logbook) Entrance picture: Underground pictures
Video : site 3461 : 20Mb mpg : 2 Mb wmv
Digging in the Mess area : \(109 \mathrm{Mb} \mathrm{mpg}: 9 \mathrm{Mb}\) wmv Detailed Surve On area sur Survex file : x
3462: dig
S Vega 30T 4514074794415 (Datum: ETRS89 Accuracy code: G) Altitude 487 m Area position

Updated 17th October 2011
A draughting dig, excavated on a couple of occasions to a depth of a couple of metres. One of the holes in the "Mess" area along with sites \(894,3460,3461\) and 3463.

Reference: anon., 2010c (summer logbook); Corrin Juan, 2011; anon., 2011d (summer logbook) MATIENZO UNDERGROUND - site descriptions (printed 19/02/202

Underground pictures
Video : Digging in the

\title{
A draughting dig which has been snappered
}

A draughting dig which has been sn
and now doesn't look as interesting.
and now doesn't look as interesting.
Boulders need removing. It draughts
Boulders need removing. It draughts

\section*{3466: cave}

The passage steps down to a small chamber where a narrow meander leads. The total where a narrow meander leads. The tota length is about 10 m and a small person is required for the meander.

Reference: anon., 2010c (summer logbook) Entrance picture: ye Underground pictures
Video :
Detailed Survey Line Survey Line Survey
On area sur Survex file

\section*{Line Surv
On area} Survex file:
x
3468: shaft
Seldesuto 30T 449117 4793685 (Datum: ETRS89. Accuracy code: G) Altitude 630 m Depth 30m

A possible new shaft. A not very conspicuous shaft top up to 30 m deep.

Reference: anon., 2010c (summer logbook) Entrance picture: yes
Underground pictures Underground pictures Video :
Detailed Survey Line Survey Survex file :
x
3469: caves / digs
Seldesuto 30T 4490904794887 (Datum: ETRS89. Accuracy code: A) Altitude 240 m Area position

Two small unexplored caves/digs about 50 m up on the right hand side of Cueva Arenal Probably about 30 N of site 0491 . The GPS reading was not good.

Reference: anon., 2010c (summer logbook) Entrance picture nderground pictures Video:
 Line Survey On area sury
Survex file :

X

\section*{3470: shaft}

Hornedo 30T 448419 4800620 (Datum: ETRS89.
Accuracy code: G) Altitude 138 m Accuracy code: G) Altitude 138 m Length 22 m Depth 10 m Area position

Updated 21st June 2011; 4th October 2015; 21st May 2023

One of three strongly draughting holes to he northeast of site 3300 and the Deep Rifts Passage in Torca la Vaca. The others are site 3471 and 3472 . Lots of jungle bashing was required to reach a deep shakehole in the trees with a cold draught felt from the edge ( 5 m from the cave). A \(1.5 \mathrm{~m} \times 0.8 \mathrm{~m}\) entrance to a 5 m pitch lands on a boulder slope in c 15 m high and 2 m wide rift. A the passage slopes dow to a calcite floor and then, almost
immediately, a boulder slope that extends to the roof. A small cross rift around halfway down the entrance slope draughts strongly.

This window was enlarged in June 2011 nd a small pitch of 3.5 m was laddered to reach a flat, sandy floor with an impossible slot. (See video).
The base of the main rift was also excavated, following a draught.

There are other small entrance holes on the slope down to the pitch. These have been investigated and appeared to close in. However, one of these (presumably) was excavated out from underground when Deep
Rifts Passage in Torca la Vaca was extended to the surface in August 2015. That hole is now called Cueva Cuba Libre, site 4182 . On the same afternoon, this shaft 3470 was entered again under the impression that it was "new".

Another hole on the slope is site 5352.
Reference: anon., 2010c (summer logbook); Corrin uan, 2011; anon., 2011c (Whit logbook); anon. 2015c (su
ogbook)
Entrance picture: nearby Underground picture : yes Video: Iow quality: higher quality from 2010 on YouTube : 2015 explorat
Detailed Survey : yes Detailed Sur
Line Survey Line Survey:
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic declina
December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014
x
3471: dig
Hornedo 30T 4484464800623 (Datum: ETRS89 Accuracy code: G) Altitude 134 m
Area position
Updated 21st May 2023
One of three strongly draughting holes to the northeast of site 3300 and the Deep Rifts Passage in Torca la Vaca. The others are site 3470 and 3472 This has a strong, cold draught. At the base of a small limestone cliff a sandy tube going

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off to the left stops but the draught seems to come from a fist-sized hole in the boulder floor. Worth digging but will be hard work possibly a DCC project.
The site was found to be "draughting nicely" in April 2023.

Reference: anon., 2010c (summer logbook); Corrin Reference: anon., 2010c (summer logbook)
Juan, 2011; anon., 2023b (Easter logbook) Entrance picture:

\section*{Updated 21st May 2023}

One of three strongly draughting holes to the northeast of site 3300 and the Deep Rifts Passage in Torca la Vaca. The others are site 3470 and 3471 .
A sandy-floored tube, about 30 cm diameter A on the side of a large shakehole in the edge
on of trees. A very strong draught on a cool day - well worth digging beyond the 5 m or so already excavated.
In April 2023, it was found to be
"draughting nicely". Site 5350 is 10 m to the north.

Reference: anon., 2010c (summer logbook); Corrin Reference: anon., 2010c (summer logbook
Juan, 2011; anon., 2023b (Easter logbook) Juan, 2011; anon.,
Entrance picture:
Video :
Video :
Detailed Survey
Line Survey
On area survey
On area sur
Survex file

3473: shaf

\section*{On area sur}

Updated 5th October 2015
A hole and tight shaft on the uphill side of the track. Undescended.

Reference: anon., 2010c (summer logbook); anon Reference: anon., 2010
2015c (summer logbook) Entrance picture: yes Underground pictures : Video:
Detailed Survey
Line Survey
On area surve
Survex file
X
3478: cave
478: cave
S Vega 30T 4504414795428 (Datum: ETRS89. Accuracy code: G) Altitude 249 m Length \(2 m\)
Area position

A small hole in the "middle of nowhere". A two metre long crawl used as an animal habitat.

Reference: anon., 2010c (summer logbook) Entrance picture: yes Video : Detailed Survey : Line Survey On area survey
Survex file :
x
3479: shaft
Bosmartín 30T 4503434797708 (Datum: ETRS89. Accuracy code: G) Altitude 516 m
Depth 4 m
Area position
Updated 31st January 2023
An unexplored shaft, about 4-5m deep.
```

Reference: anon., 2010c (summer logbook); anon.,
Reference: anon., 2010c

```
2022e (Christmas logboo
Underground pictures
Video :
Detailed Survey
On Survey :
Survex file :
X

3480: cave
S Vega 30T 4512984794445 (Datum: ETRS89. Accuracy code: G) Altitude 511m Length 2 m Area position

This washed-out hole in boulders has an old out-of-reach gin trap inside.
```

Reference: anon., 2010c (summer logbook)

```
Reference: anon.,
Underground pictures
Video:
Detailed Survey
Line Survey :
Line Survey
On area survey :
Survex fils
X
3481: cave
3481: CaVe
S Vega 30T 4525604794425 (Datum: ETRS89
S Vega 30T 4525604794425 (Datı
Accuracy code: G) Altitude 482 m
Accuracy code:
Area position

An unexplored low crawl. This cave and sites An unexplored low crawl. This cave and site
3482 and 3483 are all in the same scar on the southern side of the depression within 20 m of each other.

Reference: anon., 2010d (autumn logbook)
Entrance picture: yes Entrance picture: yes Underground pictures Video : Detailed Survey On area surve Survex file :

X
3482: collapse
S Vega 30T 4525524794427 (Datum: ETRS89. S Vega 30T 452552479427 (Dat
Accuracy code: G) Altitude 483 m
Area position

An unexplored collapse. This site and sites 3481 and 3483 are all in the same scar on the southern side of the depression within 20 m of each other.

\section*{Reference: anon., 2 \\ Reference: anon., 2010d (autumn logbook)} Underground pictures MATIENZO UNDERGROUND - site descriptions (printed
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\section*{3483: cave}

S Vega 30T 4525684794422 (Datum: ETRS89 S Vega 30T 4525684794422 (Dat
Accuracy code: G) Altitude 481 m Accuracy coo
Length 4 m Area position

A 4 m long hands-and-knees crawl behind a A 4 m long hands-and-knees crawl behind a
broken down wall. Another small entrance is broken down wall. Another small entrance
visible. This site and sites 3481 and 3482 visible. This site and sites 3481 and 3482
are all in the same scar on the southern side are all in the same scar on the southern side
of the depression within 20 m of each other.
 Entrance picture: yes Underground pictures
Video: Detailed Surve Line Survey Survex file

A 6 m pitch in a wide shaft to boulders. The hole is formed on a rift with a dig at both ends, best to the south. Here, a slide down a mud slope leads to a tight pot some 2 m deep. This has not been looked down as it may be difficult to get out. Needs more investigation in hot weather.


In 10 m diameter shakehole on N side, half
wav un easv wav out of the 4 m deen. flat way up easy way out of the 4 m deep, flat drop where stones fall about 2 m . No draught when the temperature was 11C. To dig would need caps or snappers and only dig would need caps or snappers and only be worth it if there is a good draught in hot weather (i.e. inward).

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Video:
Detailed Survey :
Line Survey
On area surve)
Survex file :
x
3489: digs Cruz Llorada 30T 4500084797879 (Datum:
ETRS89. Accuracy code: G) Altitude 499 m
Area position Area position

A steep depression 10 m from the track. A hole on the side chokes. At the base of the depression is a possible dig.

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Underground pictures Video :
Detailed Survey Line Survey On area surve
Survex file. Survex fil

X
3490: dia
Cruz Llorada 30T 4498704797920 (Datum Cruz Llorada 30 ter 429870 4797920 (Datum
ETRS89. Accuracy code: G) Altitude 488 m Area position

A vegetated shakehole with a possible dig ir a rift at the base. There are Orbitolina beds present.

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Underground pictures Video : Detailed Survey Line Survey On area surve Survex file :
x
3491: shaft El Naso 30T 4512364796761 (Datum: ETRS89. Accuracy code: G) Altitude 428 m Length 10 m Depth 3 m
Area position
A 3 m pitch drops into a short length of passage that closes in with a very small bedding at roof level

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Underground pictures : yes Video:

\section*{Detailed Surve}

Line Survey
On area sur :
Survex file :
x
3492: shaft
Cruz Llorada \(30 T 4498764797855\) (Datum: ETRS89. Accuracy code: G) Altitude 493 m Depth 3 m Area position

A 3m deep shaft with a rocky floor Undescended, with plenty of vegetation including a 4 m Rowan tree in the entrance.
```

Reference: anon., 2011b (Easter logbook)

```
Reference: anon., 2011
Entrance picture: yes
Underground pictures
Video :
```

Detailed S
Line Survey:

```
On area surve
On area sur
x

3493: depression
Bosmartín 30T 4497454797148 (Datum: ETRS89 Accuracy code: G) Altitude 438 m

A possible hole beneath a fresh rubble fill The site is next to a small depression with bog plants, suggesting an impermeable layer

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Underground pictures Video :
Detailed Survey
Line Survey Line Survey Survex file :

3494: Regato, Cueva de

 Area position

Updated 4th July, 17th October 2011; 26th September 2014; 18th November 2017; September 2014; 18 th
20th September 2019

There are two entrances to this small maze system which is 300 m away to the southwest from Cueva Laberinto.

The entrance leads to a small chamber. To the right a narrow rift leads down into what could be called the 'main chamber'. Straight on a passage, not quite a hands and knees crawl, leads to a junction with a narrow way on straight ahead and left turn. These meet up at the other side of a pillar in a small chamber with several choked inlets.
Continuing ahead, a short descent past a block leads to a low continuation which soon closes down. Back at the pillar, a right turn through a narrow passage leads almost immediately to a narrow passage parallel to the original. Straight ahead is a small maze area of passages leading to a rift with a voice connection to the Main Chamber. Turning left to follow the draught leads via a Turning left to follow the draught leads
short leftwards dog leg to a pitch into a short leftwards dog leg to a pitch into a
chamber. The roof of the chamber is about 2 chanbes higher than the top of the pitch At metres higher than the top of the pitch. At the bottom of the pitch the rift-like chamber continues in the line of the entrance passage narrow rift to the right has been voicenarrow rift to the right has been voice-
connected to further passages described connected to further passages described
later. Back at the bottom of the pitch a right later. Back at the bottom of the pitch a ri
turn leads to cross rifts and holes in the floor which all appear to close down Half-way down the rift-like chamber a climb through an eye-hole enters a roomy parallel passage which closes down in both directions. Opposite the eye-hole, across the rift-like chamber a remnant vadose passage not in character with the rest of the cave quickly leads back into more typical passage with the high roof and holes in the floor sloping down through loose fill. It is along this passage that a voice connection at roof level has been established with the high level chamber described earlier. An easy climb up of about 2 metres leads to narrow continuation passage with holes in the floor to a lower level. One of the holes was descended to a floor with no clear way on. The higher narrow passage ends at a cross joint A tight low flat-out crawl to the right has been followed for some 10 to 20 metres but not surveyed.
In August 2014, the flat out crawl "at the lowest level" was pushed but becomes too low at shingle banks. There is a stead draught at this point and a very small person might get through.

\section*{Main Chamber Area}

Returning to the entrance area a climb down a narrow rift leads to the "main chamber", around 8 m to 10 m high with direction.
Turning left leads past a draughting dig and over blocks to a further draughting die A rift high on the left wall is the probable The second passage is a climb up straight. ahead, immediately on the left is a narrow rift connecting back into the main chamber, a hole in the floor of this rift has been pushed down to a small draughting cross rift which is also visible from holes in the floor of the climb and may reward further attention. Continuing to the top of the climb the passage leads off to the right past a squeeze and a small connection to the third passage left branch below, ahead ends in a small chamber. A hole in the floor of this passage drops into a grotto which is the connection to the end of Regato 2 (below). The third passage in the main chamber is a slope up under a large stal boss to the right as you enter the chamber. The passage splits three ways, the left hand branch is two short climbs into the upper passage. The passage straight ahead ends at a 4 m pitch which becomes to tight and the right hand branch is a short climb to passages below the entrance which become too low.

Above the stal boss is a climb to a further passage which ends in a low area near the entrance

\section*{Regato 2 Area}

Dropping through the connection hole in the small chamber at the end of the second passage in the Main Chamber area enters a grotto, with small but pretty formations. At the far end of the grotto an old leather glove was found. An obvious passage on the far side of the chamber is a crawl leading down a short slope to a junction. To the left a passage meanders for a few metres before MATIENZO UNDERGROUND site descriptions (printed 1902/2024) Volume 5 - page 88
closing down and has been used to dump
spoil. Below vou at the iunction a dron int spoil. Below you at the junction a drop into
a dig has reached a narrow rift. Ahead is a a dig has reached a narrow rift. Ahead is a
slope, with a small hole to a passage which slope, with a small hole to a passage whi
quickly closes down in one direction and quickly closes down in one direction and

In August 2011, "bits" were finished off, the survey updated and photos taken. In survey updated and photos taken. In
October 2017, a number of new holes to the October 2017, a number of new holes to
west and north were documented. (See west and north were documented. (See
\(4613 ; 4614 ; 4615 ; 4616 ; 4617 ; 4618 ;\) 4613; 4614; 4615; 4616; 4617; 4613; \(4631 ; 4632 ; 4633 ; 4622 ; 4623 ; 4630 ;\)
4637 ; and 4638.

In August 2019, further investigations concluded that, (i) there was a total choke to the south, (ii) the stream at the base of the 8 m hole can't be dug and (iii) no single source for the strong draught could be found. Reference: anon., 2011b (Easter logbook); anon.,
2011d (summer logbook); anon., 2014c (summer logbook); anon., 2017d (autumn logbook); anon., 2019d (summer logbook)
Entrance picture: yes Entrance picture: yes
```

Undergr

```
```

Video:
Detailed Survey : yes (ongoing) : final (2011)

```
Detailed Surv
Line Survey :
On area survey :
Survex file : yes (Amended magnetic declinatio
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
Survex fire yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.
on Hornedo / San Antonio area survey (Amended
on Hornedo / San Antonio area survey (Amended
Eur79 grid and coordinates altered to fit ETRS89
Eur79 grid and coor
datum, April 2014.)
X
3495: cave
La Gatuna 30T 4497344799205 (Datum: ETRS89,
Accuracy code: G) Altitude 162 m
Length 8 m Depth 4 m
Area position

A low arch by a path which goes down a slope for 4 m to a cross rift with an ascending slope to a choke after 3 m straight ahead. There is a very small hole in the floor but no draught.

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Video:
Detailed Survey : Line Survey On area surve
Survex file :
x

\section*{3496: shaft}

La Gatuna 30T 4498264799328 (Datum: ETRS89. Accuracy code: G) Altitude 152 m Length 38 m
Area position

Updated 8th, 9th October 2013
This hole, beside a track, is a 2 m near vertical drop down against a small rock face to where it goes off into a crawl over cobbles. This splits and rejoins, but only the right hand route is passable. This becomes stooping height but ends at a couple of small holes. The strong outward draught at the entrance is not present here.
After a number of digging sessions in August 2013 a small extension was entered with a pit to one side which had 2 draughting slots which produced one drop. Capping and snapping got down about 15 m but the base closed in at a very narrow rift with a draught.

Reference: anon., 2011b (Easter logbook); anon., 2013d (summer logbook)
Entrance picture: Easter 2011 : August 2013 Entrance picture: Easter 2011 : August
Underground pictures : August 2013 Video:
```

Detailed Sur

``` On area survey
Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.) X
3497: shaft
La Gatuna 30T 4497984799210 (Datum: ETRS89. Accuracy code: G) Altitude 155 m Length 20 m Depth 15 m Area position

\section*{Updated 1st December 2011}

A shaft first spotted in 2004 and finally descended in November, 2011. The shaft is 15 m deep to a choke. Half way down the shaft are two small drops which unite at the base and choke.

Reference: anon., 2011b (Easter logbook); anon.,
2011e (autumn logbook) 2011e (autumn logbook)
Underground pict
```

Video :

```
Detailed Survey :

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\section*{Line Surve}

\section*{3498: shaft (2)}

\section*{Mullir 30T 45572947 \\ Accuracy code: G) Altitude 610 m : ETRS89.} Length 6 m Depth 3 m Area position

Two three metre deep shafts
Reference: anon., 2011c (Whit logbook) Entrance picture: ye Underground picture
Video :
Detailed Survey
Detailed Sur
Line Survey
On area sur
Survex file
3499: dig
Mullir 30 T 4556084795241 (Datum: ETRS89
Accuracy code: G) Altitude 660 m
Area position

A dig to enter a drop. This site is near the head of a shallow valley with a number of interesting holes which need investigating.

Reference: anon., 2011c (Whit logbook)
Reference: anon., 20
Entrance picture: yes
Underground picture
Video :
Detailed Survey
Line Survey :
On area survey Survex file

\section*{3500: holes (3)}

San Antonio 30T 4457864801109 (Datum: ETRS89. Accuracy code: A) Altitude 105 m Area position

\section*{Updated 21st, 23rd June 2011}

One is a dig. The other two are in the same depression at a scar. On the left, a walk down a 20 m slope reaches a slope up to a choke of calcite. On the right, a 10 m long cave goes past two squeezes to a small calcited chamber. These sites should be separated out.

X
3501: hole
San Antonio 30T 4458034801121 (Datum: ETRS89. AcCl
Area position

Updated 21st, 23rd June 2011
No description.
Reference: anon., 2011b (Easter logbook); anon.
Reference: anon.,
2011c (Whit logbook)
2011c (Whit logboo
Entrance picture:
Video :
Detailed Survey
Line Survey
On area survey
Survex file

3502: hole
San Antonio 30T 4458044801133 (Datum:
San Antonio 30T 4458044801133 (Datum:
ETRS89. Accuracy code: A) Altitude 108 m Area position

Updated 21st, 23rd June 2011
No description.
Reference: anon., 2011b (Easter logbook); anon. 2011c (Whit logboo Entrance picture Underground pictures
Video:
Line Survey
On area survey
Survex file

\section*{3503: shaf}

N Vega 30T 4490924796416 (Datum: ETRS89 Accuracy code: G) Altitude 465 m
depression has a draught from a slot in the back left wall but has been well covered with vegeta

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Video:
Detailed Survey : Line Survey on area survey Survex file :

Updated 17th October, 5th November 20 2nd May, 28th September 2012; 5th December 2013
On the right of the track going uphill, an obvious entrance marked "AA76" in red paint. A small hole into a crawl which leads to a chamber with a slope up to the right and a slope down to the left. There is evidence of capping down on the left above a tight drop and signs that the cave might have been surveyed. The site could be associated with site 299 above.

The short tight drop has been descended to a small chamber with a possible dig in the a smal
floor.

Reference: anon., 2011b (Easter logbook); anon., 2011e (autumn logbook); anon., 2012b (Easter ogbook); anon., 2012d (summer logbook); Corrin , 2013a
e: yes
nderground pictures : Video :
```

Detailed Surv

```
Line Survey:
On area survey
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.
X

3505: dig
Mullir 30T 455688 4795688 (Datum: ETRS89 Accuracy code: G) Altitude 625 m
Area position
A low crawl to a possible enlargement. Blocks need removing to enter.

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Undergr
 Line Survey On area survey Survex file :
x
3506: dig
Mullir 30T 4556524795751 (Datum: ETRS89 Accuracy code: G) Altitude 605 m Depth 1 m

\section*{Area position}

A possible dig at a site 1 m deep and 1 m diameter.

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Underground pictures Video: Detailed Survey Line Survey Survex file :
x
3507: shaft
Bosmartín 30T 4494724797340 (Datum: ETRS89. Accuracy code: G) Altitude 500 m Length 2 m Depth 2 m Area position

A fenced bramble-filled depression with a 2 m deep slot.
```

Reference: anon., 2011b (Easter logbook)
Entrance picture: yes
Untrance picture: yes
Video:
Dideo:
Line Survey
On area survey :
On area sur
X
3508: depression
Bosmartín 30T 449483 4797341 (Datum: ETRS89.
Bosmartín 30T 449483 4797341
Area position

```
A 4m diameter, steep sided depression.

Reference: anon., 2011b (Easter logbook)
Entrance picture: yes Entrance picture: yes
Underground picture

A line of depressions with an ash tree in the middle. There are no visible holes
```

Reference: anon., 2011b (Easter los
Entrance picture

```
Underground pictures
Under
Video:
Detailed Survey
Detailed Sur
Line Survey
On area sur
Survex file
3511: depression
Bosmartín 3014496574797378 (Datum: ETRS89
Accuracy code: G) Altitude 497 m
Depth 4m
Area position

A mud floored, 7 m diameter and 4 m deep depression with an elder tree in the middle.
```

Reference: anon., 20

```
Underground pictures
Video :
Video:
Detailed Survey
Line Surve
On area survey
Survex file

3512: shaft
3512: Shaft
Fresnedo 30T 4521984801592 (Datum: ETRS89 Fresnedo 30T 4521984801592 (D
Accuracy code: G) Altitude 178m Length 5 m Depth 5 m Area position

Near the top corner of a field, an open shaft lies in a shallow depression. A 5 m drop to a choke of sandstone and mud which looks as if it might have covered the top until recently. All ways on choked although there was a good echo from along a small tube up in one wall.

Reference: anon., 2011b (Easter logbook) Entrance picture:
```

Underground pict

```
Video:
Detailed Surve
On area survey
On area su
Survex file

3513: cave
Fresnedo 30T 452089 4801294 (Datum: ETRS89, Accuracy code: G) Altitude 281 m Area position

A rock face in the gulley with an unexplorec flat-out crawl at the base. This is in the same gulley as site 2544 (having a similar description) which couldn't be found when this site was discovered.
```

Reference: anon., 2011b (Easter logbook)
$$
\begin{array} { l } { \text { Reference: anon.,} } \\ { \text { Entrance picture:} } \end{array}
$$
Underground pictures
Video:
Detailed Survey
Litailed Su
On area survey
Survex file
3514: shaf
La Secada 30T 4527434798063 (Datum: ETRS89 La Secada 30T 4527434798063 (
Accuracy code: G) Altitude 187 m
Area position

```
\[
\text { An undescended } 6 m \text { deep shaft above the }
\]
Entrance picture:
Undergro
Detailed Surve
Line Survey:
On area surve
Survex file:
X
3515: dig
N Vega 30T 4489784796253 (Datum: ETRS89
N Vega 30T 448978 4796253 (Dat
Accuracy code: G) Altitude 495 m
Area position

A limestone outcrop with a depression below which has been filled with stones. Excavation has revealed the outcrop to be undercut and a possible way down can be seen. Needs a bit more work to stabilise rocks

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Underground pictures Video :
Detailed Survey : sketch Line Survey On area surv
Survex file :

X
3516: shaft
N Vega 30T 4489484796410 (Datum: ETRS89.
Accuracy code: G) Altitude 522 m Length 20 m Depth 20 m Area position

A rift pot in the side of a larger open pot with a tree growing in the vertical side. A slide down a steep mud slope to a rubble floor. A tight rift descends, sloping at first floor. A tight rift descends, sloping at first
then vertical. The gnarly and constricted drop ends on a rubble floor with no way on. There is a very slight outward draught on a warm day. This may be site 1500 .

Reference: anon., 2011b (Easter logbook) Entrance picture: Underground pictures : Detaile Line Survey : On area surve Survex file :

X
3517: cave
Las Calzadillas 3014488974796109 (Datum:
ETRS89. Accuracy code: G) Altitude 513 m Las Calzadillas 30 T 4488974796109 (Dat
ETRS89. Accuracy code: G) Altitude 513 m Length 3 m

\section*{Area position}

The cave entrance is under limestone pavement and is possibly an old cold store. An easy step down under a rock roof (beware of broken bottles) ends on a rubble floor but with a large slab. The current end is a small hole through which a low continuation can be seen. This can be enlarged by removing the rubble but the way on follows the contour of the hill rather than going into the hill. Old stal can be seen in the continuation and there is a slight outward draught on a warm day.
```

Reference: anon., 2011b (Easter logbook)
Reference: anon., 2011
Entrance picture: yes
Video:
Detailed Survey : sketch
Line Survey
On area survey :
Survex file :
X
3518: shaft
Las Calzadillas 30T 448793 4796060 (Datum:
ETRS89. Accuracy code: G) Altitude 520m
Length 8m Depth 6m
Area position
A shakehole with a tallish oak tree and shrubbery below a limestone outcrop. A shrubbery below a limestone outcrop. A
tight horizontal squeeze for 2 m ends at the tight horizontal squeeze for 2 m ends at the
head of a tight rift pot. This descends to -4 m head of a tight rift pot. This descends to -4 with a boulder floor and a very small hole
Pebbles do go down another $3-4 \mathrm{~m}$ but Pebbles do go down another $3-4 \mathrm{~m}$ but
there is no draught. The site is described as there is no draught. The site is described as
"horrible" and "pointless".
Reference: anon., 2011b (Easter logbook)
Entrance picture: yes
Underground pictures
Underground pictures
Video:
Video :
Dideo:
Detailed Survey : sketch
Line Survey:
Line Survey
On area surve
Survex file :
X
3519: shaft
Las Calzadillas 30T 4486654795891 (Datum: ETRS89. Accuracy code: G) Altitude 510m

```

\section*{Length 12 m}

\section*{A rift entrance in the side of an ope} shakehole. The initial tight rift turns \(90^{\circ}\) to the right. A 2 m long sloping mud floor drops 4 m onto a rubble floor. The roof undercuts 4 m onto a rubble floor. The roof unde
the side of the shakehole and has old "pretties" and on this occasion, "pretties" and, on this occasion, a bat. A careful climb down between loose boulders reaches a small chamber with no diggable way on. A possible outward draught was felt on a warm day. The lower chamber walls are covered in powdery flowstone.
```

Reference: anon., 2011b (Easter logbook)
Entrance picture: yes

```
Entrance picture: yes
Underground pictures
Video :
Video
Detailed Survey : sketcl
Line Survey:
On area survey
Survex file

\section*{3520: dig}

Secadura 30T 4560404800275 (Datum: ETRS89 Accuracy code: G) Altitude 79 m
Area position
```

Accuracy code:

```

A hole above the lowest point of a large depression. It needs the entrance enlarging to get into a craw

Reference: anon., 2011b (Easter logbook) Reference: anon.,
Entrance picture:
```

Underground picture

```
Video :
Video:
Detailed Survey
Line Survey
On area survey
On area su
Survex file

3521: dig
Secadura 30T 4560074800262 (Datum: ETRS89 Secadura 30T 4560074800262
Accuracy code: G) Altitude 84 m Accuracy code
Area position

A hole down the face of a small rock
outcrop. It requires digging to reach a drop and slope.

Reference: anon., 2011b (Easter logbook) Entrance picture: yes Underground pictures
Video:
Detailed Survey
ne Survey
On area sur
Survex file

3522: dig
Secadura 30T 4560504800020 (Datum: ETRS89 Accuracy code: G) Altitude 64m

3523: dig

\section*{steep mud slope which chokes up. Around} 6 m long

Reference: anon., 2011b (Easter logbook); anon., Reference: anon., 2011b
2012f (Christmas logbook) 2012 f (Christmas logboo
Entrance pictures: yes
Underground pictures Underground pict
Video:
Detailed Survey :
Line Survey: Line Survey :
On area survey Survex file :

X
3525: shaft
Mullir 30T 454799 4795747 (Datum: ETRS89 Mullir 30 T 4547994795747 (Datu
Accuracy code: G) Altitude 753 m Accuracy cod
Depth 11 m Area position

A small hole (which may need digging out) on open hillside onto a roomy pitch at least on open
11 m deep.
```

Reference: anon., 2011b (Easter logbook)
Entrance picture: yes
Underground pictures
Video:
Line Survey
On area survey
On area sury
x
3526: cave
a Secada 30T 451682 4797585 (Datum: ETRS89.
Accuracy code: A) Altitude 200m
Area position
A 0.5 m diameter tube at the roadside. (First described at Easter 1997.)
Reference: anon., 1997a (Easter logbook)
Reference: anon.,
Entrance picture: Underground pictures Video: Detailed Survey
Line Survey: Line Survey On area surve
Survex file :
X
3527: collapse
La Secada 30T 4515784797611 (Datum: ETRS89 La Seada 30T 451578 4797611 ([
Accuracy code: M) Altitude 201m

```

```

Area position

```

A 3m deep collapse covered with a boulder. There is a possible faint draught out. (First described at Easter 1997.)

Reference: anon., 1997a (Easter logbook) Entrance picture: Underground pictures Detaile Detailed Surve
Line Survey : On area surve Survex file :

X
3528: cave
La Secada 30T 4513584797491 (Datum: ETRS89. Accuracy code: M) Altitude 205m Area position

\section*{Updated 12th May 2018}

First described as a rift in the bottom of an elongated depression with trees, the site was described as a shallow shaft with no drauight and no obvious ways on when explored in April, 2018.

Reference: anon., 1997a (Easter logbook); anon., 2018b (Easter logbook)
Entrance picture:
Underground pictures
Video : Video :
Detailed Survey
Line Survey :
Line Survey
On area surv
Survex file :

X
3529: dia
La Secada 30T 4512684797431 (Datum: ETRS89. Accuracy code: M) Altitude 228m Area position

A dig with a good inward draught. (First described at Easter 1997.)

Reference: anon., 1997a (Easter logbook) Entrance picture Underground pictures Video:
```

Detailed Surve

```
Line Survey : On area surve Survex file :
x
3530: dig
La Secada 30T 4513084797401 (Datum: ETRS89. Accuracy code: M) Altitude 228m Area position

MATIENZO UNDERGROUND
escriptions (printed 1900212022
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> dig. (First described at Easter 1997.)
```

Reference: anon., 1997a (Easter logbook)

```
Reference: anon.,
Entrance picture:
Underg
Video :
Detailed Surv
Line Survey
On area survey
Survex file
3531: cave
a Secada 30T 4513584797441 (Datum: ETRS8
La Secada 30 T 4513584797441
Accuracy code: M) Altitude 203 m
Accuracy code
Area position
Updated 12th May 2018
A tight tube which has an inward draught.
When inspected with an endiscope in April
When inspected with an endiscope in April
2018, the site was described as very tight
and choked.
Reference: anon., 1997a (Easter logbook); anon.
2018b (Easter logbook
Entrance picture:
Entrance picture:
Underground pictures
Video :
Detailed Survey
Detailed Sur
Line Survey
On area sur
Survex file
X
3532: cave
La Secada 30T 4513484797391 (Datum: ETRS89
Accuracy code: M) Altitude 224 m
Accuracy cod
Length 20 m
Length 20 m
Area positior

A \(0.8 \times 0.5 \mathrm{~m}\) tube to phreatic rifts. (First described at Easter 1997.)

Reference: anon., 1997a (Easter logbook)
Entrance picture
Underground pictures
Video
Detailed Survey
Line Survey
On area survey
Survex file
3533: shaft
La Secada 30T 4513684797391 (Datum: ETRS8
La Secada 30T 4513684797391 (
Accuracy code: M) Altitude 216 m
Accuracy code: Me) Altituc
Length 10 m Depth 10 m
Length 10 m
Area position
A shaft, deeper than 10 m , which has not
been fully explored. (First described a
Easter 1997.)
Reference: anon., 1997a (Easter logbook)
Entrance pictur
Entrance picture:
Underground pictures
Underg
Detailed Survey
Line Survey
On area sur
Survex file
3534: shaft
La Secada 30T 4513984797371 (Datum: ETRS89
Accuracy code: M) Altitude 213 m
Depth 8 m
Area position

An unexplored, tight shaft - about 8 m deep. (First described at Easter 1997.)

Reference: anon., 1997a (Easter logbook)
Entrance picture: Underground pictures Video :
 Line Survey Line Survey On area sur
Survex file

Updated 19th September 2021 chamber.

化ailed Survey . sketch, Alex Ritchie, 2021 Line Survey On area survey Survex file
x
3537: shaft
S Vega 30T 4525414794253 (Datum: ETRS89 Accuracy code: G) Altitude 550m Length 15 m

Updated 17th May 2019
Previous grid reference was 30T 4525584794271 (Datum: ETRS89)]
p7 drops onto a slope down in a winding rift. A climb up reaches a choked rift with a goat skull. (First described at Easter 1997.)

Reference: anon., 1997a (Easter logbook); anon., 019b (Easter logbook) Entrance picture
```

Video:
Detailed Survey

```
Detailed Sur
Line Survey
On area survey
Survex file :
x
3538: dig

Camino 30T 4526164796461 (Datum: ETRS89. Accuracy code: G) Altitude 182 m Area position

A small, draughtless dig found on the line o dowsing from site 3541, the resurgence on the opposite site of the road from the church. The dowsing map link is below

Reference: anon., 2011d (summer logbook) Entrance picture: yes Underground pictures Video:
Detailed Surve
Line Survey :
On area survey : Dowsing reactions close to this dig: (Article about the dowsing carried out in July 2011 can be found here.) Survex file
x
3539: dig
Fuentecil 30T 4464794800351 (Datum: ETRS89. Accuracy code: G) Altitude 272 m
Accuracy code
Area position
A dribbling sink with slumped mud against 4 m high scar in a depression. No draught was detected on a cool day. The site lies over a positive dowsing reaction at the upstream end of Fuente Aguanaz. Dowsing maps links are shown below

Reference: anon., 2011d (summer logbook) Entrance picture: yes Underground pictures Video:
```

Letailed Sur

```

Line Survey :
On area survey : Dowsing reactions close to this dig : Dowsing reactions from Fuente Aguanaz to Cobadal. : (Article about the dowsing carried out in Survex file :

X
3540: shaft
S Vega 30T 4513284794220 (Datum: ETRS89 Accuracy code: G) Altitude 562 m Length 10 m Depth 7 m Area position

A boulder was removed before this site could be explored. A 7 m pitch to a 3 m route becoming too tight. No draught. "Not worth digging."

Reference: anon., 2011d (summer logbook) Entrance picture: yes nderground pictures Video :
detailed Survey : sketch Line Survey On area sury
Survex file :
x
3541: resurgence
El Camino 30T 4525254796368 (Datum: ETRS89. Accuracy code: A) Altitude 150 m Area position

A wet weather resurgence on the opposite side of the road from the church, about 30 m MATIENZO UNDERGROUND - site descriptions (printed \(19 / 02 / 2022\)
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south. This was used as a starting point fol
dowsing in Julv 2011 and a reaction was found up the hill towards Sima del Andrés. The dowsing map link is found below.

Reference: anon., 2011d (summer logbook) Entrance picture: aerial photc Under
Detail
Surved Survey
On area survey : dowsing reaction at the resurgence: (Article about the dowsing carried out in July 2011 can be found here.)
Survex file :

3542: shaft
\(\qquad\)
S Vega 30T 4511534794061 (Datum: ETRS89 Accuracy code: G) Altitude 637 m
Area positior

Note: Opposite the depression is what looks like a lay-by. This in fact a passing place and turning space for the driveway next to the depression. There is only room for one vehicle.

This choked sink against a scar is above a dowsing reaction. A link to the map showing the dowsing activity is found below. Various gaps between boulders at the sink were noted in November 2011, but nothing obvious to push was seen.

At Easter 2013, expedition cavers were shown a cave, hidden behind dense vegetation, which had been used as a refuge during the Civil War
Drop down by a tree at the side of the depression for about 2 metres to where a narrow slot can be seen to the right. At the bottom of the slot is a walking size passage to the left which continues for some 16 metres. Opposite the slot, at floor level, is a low crawl leading almost immediately to a roomier passage which spirals down for about 10 m . The passage is rather scrapp and confused with several leads which all appear to close down.
A left turn along the walking passage leads to a branch to the right. Ten metres along the branch an excavated hole on the lef leads to a 6.5 m pitch into a chamber which is a parallel sided rift. The floor consists of jammed boulders. A further descent of 6.5 m leads to a continuation of the rift, again on a floor of jammed boulders. A climb straight down in the boulders seems to block after about 8 m . To the right a climb down leads to a narrow rift which needs further effort. A climb down and to the left leads to another space which needs further work.
Continuing along the walking passage leads to a third passage to the right which closes down after about 8 metres. There is a sound connection with the rift chamber.

In August, 2013, two sites were dug at the end of the high level passage: the right hand one ended in a boulder-filled passage; the left hand dig needs capping to gain any further progress. A very tight vertical slot at the lower end of the lowest chamber was passed to a wider section but all ways on choked A small window looking onto a pitc at the highest part of the final chamber pas enlarged but the whole right hand side wall of loose boulders abe the wind sude moving, resulting in a "rather spow started the dig, resulting in a "rather speedy exit the diggers". "The site might warrant a return visit."

In August 2014, capping and digging was carried out in a "low crawl" but more work is needed.

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In November 2014, the dig at the end of the
high level passage dropped 4 m into the roof high level passage dropped 4 m into the roof
of the first chamber. An undescended pitch of the first chamber. An undescended pitch up a slope in the lower chamber could not checked again a year later and the "lost pitch" remains lost.

In October 2015, a traverse over the main hamber entered a small ( \(5 \times 2 \mathrm{~m}\) ) chamber with many loose boulders. A side passage dig was inspected and it will be a long term effort. Reference: anon., 2011d (summer logbook); anon
2011e (autumn logbook); anon., 2013b (Easter 2011e (autumn logbook); anon., 2013b (Easter
ogbook); anon., 2014c (summer logbook); anon 2014d (autumn logbook); anon., 2015d (autumn gbook)

 Detailed Survey : pdf Easter 2013 : pdfs summer 2013 - plan and elevation : Modified plan, autumn 2015 Line Survey :
On area survey : Dowsing reactions close to this dig : Dowsing reactions from Fuente Aguanaz to Cobadal. (Article about the dowsing carried out in
uly 2011 can be found here.) Survex file : yes (Amended magnetic declinatior December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014
x
3544: shaft
Moncobe 30T 4461434796469 (Datum: ETRS89 Accuracy code: G) Altitude 234m
Length 3 m Depth 3 m
Area position
A 3 m deep blind pot
Reference: anon., 2011d (summer logbook) Entrance pictures Underground pictures Video :

\section*{Detailed Surve}

Line Survey
On area surv
Survex file :
x
3545: hole seldesuto

Small hole - no description. Logbook entry? Apparently close to site 1754 (see photo).

Reference: anon., 2011d (summer logbook)?
Entrance picture: yes
Underground pictures Video:
Detailed Survey Line Survey On area surv
Survex file :

3546: dig
Seldesuto 30T 4496844793422 (Datum: ETRS89. Accuracy code: G) Altitude 618m Area position

A muddy dig. (No description in log book.)
Reference: anon., 2011d (summer logbook)?
Reference: anon., 2011 d
Entrance picture: yes
Entrance picture: yes

\section*{Video:}

\section*{Detailed Surv}

On area suy :
x
3547: diq
Secadura 30T 4552684798917 (Datum: ETRS89. Accuracy code: G) Altitude 257m
Area position
Updated 25th January 2013
\begin{tabular}{l} 
An alternative grid reference is 307453561 \\
\(4799125 ;\) \\
\hline TRS89: \(30 T 4555594789916]\)
\end{tabular}
4799125; ETRS89: 30T 455259 4798916]
A small draughting hole in the valley running down below site 0109, Torca de Cillarón. Seen again and draughting in December 2012.

Reference: anon., 2011d (summer logbook); anon 2012 f (Christmas logbook) Entrance pictures:
```

Undergro

```
Video
```

Detailed Surve

```
Line Survey
x

3548: dig
Secadura 30T 4553144799152 (Datum: ETRS89 Accuracy code: A) Altitude 180 m
Area position
An apparent hole above head height guarded by a tree. Unexplored. This is in the cliff line below Torca de Cillarón

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Reference: anon., 2011d (summer logbook)
Entrance picture: yes Entrance picture: yes
Underground pictures

\section*{3553: shaft}

La Colina 30T 4534614796608 (Datum: ETRS89. Accuracy code: G) Altitude 523m Area position

Updated 20th September 2019
An unexplored \(0.6 \times 1 \mathrm{~m}\) cave disto'd to 4 m . Although 0381 and 0382 positions were adjusted in July 2019, this hole should not move "in sympathy" as it was originally GPS'd.

Reference: anon., 2011d (summer logbook); anon.,
Reference: anon., 2011c
2019d (summer logbook)
through tight squeezes to a 5 m diameter chamber with a further tight rift pitch dropping down about 9 m . The bigger with the passage heading southeast into a with the passage heading southeast into a leads here and no draught.
On exiting the chamber, a body-sized tube On exiting the chamber, a body-sized tube can be found in the right hand wall and this has been pushed for about 20 m and is still going. From the top of the ladder, the continues heading north for 20 m into a calcited chamber - too tight

In November 2011, the site was further investigated. "The previously descended pitch was found to be too tight and requires further investigation. Continuation over the pitch leads to a roomy chamber with higher level chamber directly above. Access to the higher level is via a tight slot in the roof accessed by bolting." There is no obvious continuation.

There is "more to do Easter 2012", including a survey.

Reference: anon., 2011d (summer logbook); anon 2011e (autumn logbook) Entrance pictures: yes
Underground pictures: yes
```

Video:

```
Detailed Survey : sketch Line Survey On area survey

X
3555: dig
Riaño 30T 4511174801502 (Datum: ETRS89
Accuracy code: G) Altitude 194 m Accuracy code: G) Altitude 194 m
Area position

A draughting dig where much work remains to be done.

Reference: anon., 2011d (summer logbook) Entrance pictures: yes Underground pictures Video : yes
Detailed Surv
Line Survey

X
3556: cave
Riaño 30T 4510934801301 (Datum: ETRS89 Riaño 30T 451093 4801301 (Datu
Accuracy code: G) Altitude 164 m Accuracy code: G) Altit
Length 6 m Depth 6 m Area position

Initially, a "sandstone face was poked into" revealing a draught. A 2 m dig opened up a way into a chamber ( \(4.5 \times 3 \times 2.5 \mathrm{~m}\) high \()\) at 6 m depth. The draught has been located high up in the chamber and more work is high up in the chamb
required to push on.
```

Reference: anon., 2011d (summer logbook)
Entrance pictures: yes
Underground pictures
Video : yes
Video: yes
Line Survey
On area survey :
x
3557: cave
Fresnedo 30T 4530534801260 (Datum: ETRS89.
Accuracy code: G) Altitude 132m
Length 20m
Area position

```

A dig, first spotted in 2006, was excavated in 30 minutes and entry gained to 20 m of 1 - 2 m high passage ending in a total choke o earth. "It would probably be a fairly large passage without the fill.
Reference: anon., 2011d (summer logbook)
Entrance pictures: yes
Entrance pictures: yes
Video:
Detailed Survey : sketch
Line Survey
On area survey :
X
3558: shaft
Riaño 30T 4517424800815 (Datum: ETRS89
Accuracy code: G) Altitude 198m
Length 5 m Depth 5 m
Area position

A water well which, when explored in August 2011, had a depth of 4.13 m to water from the step at the door opening. The water was 1 m deep. The top of the shaft is walled onto a sandstone bed and the lower part is in limestone. There is no visible entry (or exit) above or below water.

Reference: anon., 2011d (summer logbook) Entrance pictures: yes Underground pictures : yes
Video: Video:
Detailed Survey Line Survey MATIENZO UNDERGROUND - site descriptions (printed 19002/202

\section*{3559: cave}

EI Naso 30T 4512744797114 (Datum: ETRS89, Accuracy code: G) Altitude 330 m Accuracy code
Area position

Updated 3rd May, 28th September 2012, 5th October 2015

An alternative GPS reading is 0451267 4797106 (August 2015)

An open tube which is currently blocked by stal. "Needs a jack hammer and generator to proceed." Some work was carried out at Easter 2012. The hole was checked after a Easter 2012 . The hole was checked aft
request by the farmer for better stockrequest by the farmer for better stock-
proofing in 2012. By August 2015, soil had proofing in 2012. By August 2015,
fallen in to cover part of the hole.

Reference: anon., 2011d (summer logbook); anon. 2012b (Easter logbook); anon., 2012d (summe logbook); anon., 2015c (summer logbook)
```

Entrance pictures: yes
Untrance pictures: yes

```
Video :
Detailed Survey :
Detailed Sury
Line Survey :
On area survey

\section*{3560: shaf}

La Gatuna 30T 4495964800188 (Datum: ETRS89 Accuracy code: G) Altitude 162 m
Length 6 m Depth 6 m

\section*{Area position}

An open hole descended down a knotted rope in a widening rift to a fill floor. There is a narrowing, filled rift but no draught.

Reference: anon., 2011d (summer logbook)
Entrance pictures:
Underground pictures
Video
Detailed Survey
Line Survey
On area survey :

3561: diq
S Vega 30T 4524134795055 (Datum: ETRS89 Accuracy code: G) Altitude 297m Area position

This site is just downhill from sites 1062 and 2288 and is a draughting dig in boulders.

Reference: anon., 2011d (summer logbook Refrence pictures: yes
Entrance
Underground pictures
Video :
Detailed Survey
Line Surve
On area survey

3562: dig
S Vega 30T 4520214795302 (Datum: ETRS89 Accuracy code: G) Altitude 252 m

This dig is about 80 m northwest of sit 2743 , below the judge's house. An

More excavation took place on Boxing Day uphill wall at the base.

Reference: anon., 2011d (summer logbook); anon 2011e (autumn logbook); anon., 2011 f (Christmas ntrance Underground pictures Video:
Detailed Survey : sketch Line Survey
```

On area survey

```
X

3564: cave
La Gatuna 30T 4498314800063 (Datum: ETRS89.


\section*{Length 82 m} Area position

The entrance in woods, initially in "massive brambles", was pointed out by a farmer. It brambles", was pointed out by a farmer. It
then took 10 minutes to cut a 20 m path to then took 10 minutes to cut a 20 m path
the \(2 \times 1 \mathrm{~m}\) entrance. Twenty metres of the \(2 \times 1 \mathrm{~m}\) entrance. Twenty metres
walking-size cave leads to a second walking-size cave leads to a second
entrance (small and overgrown) and anothe entrance (small and overgrown) and anot
15 m of walking-size passage to a calcite 15 m of walking-size passage to a calcite
boss. A couple of digging sessions removed boss. A couple of digging sessions remc
enough of this to allow a team through after a small person had squeezed through to the other side and reported back.
"Beyond the stal boss is an old, wide
stream passage, floor crusted with stal as before. This was roughly 2 m wide by 2 m high. It continues with the same profile for a while until a few slightly higher inlet passages that cut across the higher part of the main passage. Toward the end of the main passage is a collection of stals and columns behind which is a small boulder choke which must be fairly close to the surface due to the roots seen. Back in the main passage is a calcite false floor with a main passage is a ca

This hole has been excavated as it appears to take all the draught.

At the second entrance, a draughting hole in the floor has been dug to a 1 m high, 0.4 m wide rift which appears to take a stream in wet weather.

Reference: anon., 2011d (summer logbook) Reference: anon., 2011
Entrance pictures: yes Underground pictures : yes Video:
Detailed Survey : yes Line Survey On area survey :
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic declina
December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014
x
3565: diq
La Gatuna 30T 4498224800103 (Datum: ETRS89. Accuracy code: G) Altitude 160 m
Area position Accuracy code
Area position

A dig. (No entry in log book?)
Reference: anon., 2011d (summer logbook)?
Reference: anon.,
Entrance pictures:
Underground pictures
Video:
Detailed Survey
Line Survey Line Survey On area surve
Survex file

X
3566: cave
Riaño 30T 4503414801415 (Datum: ETRS89 Riaño 30 T 4503414801415 (Datu
Accuracy code: G) Altitude 120m Accuracy 3 m Area position

\section*{2018}

A cave with the stream sinking in Fox Cave (site 0936) valley. The low entrance ff. 3 m of crawling to where it narrows . This would need engineering. Water can be heard falling beyond. A hole 5 m above, on the slope in the woods, drops into a 5 m climb down - but this closes off.
In 2013, the site and the rift above were reinvestigated but "all possible leads close down".
On 12th May, 2018 OBA was put into the water here and detected with a "clear positive" at site 3282 on the 14th. There was some moderate rain between those two days. A detector in the River RiaÃ \(\pm 0\) near the bridge at 30T 0.449.529 4.801.033 remained negative. A background check was run before before, with both detectors negative. Detectors left in from the 14th to the 19th were also both negative.

More details and a map can be seen on the hydrology page.

Reference: anon., 2011d (summer logbook); anon 2013d (summer logbook); anon., 2018b (Easter Entrance picture: 2018 MATIENZO UNDERGROUND - site descriptions (printed 19/02/202

Underground
video
Detailed Surve
Line surver
on area surve

A hole (like site 3564 ) that was pointed out by a farmer. An open cave entrance in a by a farmer. An open cave entrance in a
field slopes down into walking passage. This field slopes down into walking passage. This was explored by the farmer when he was a young boy. The cave appears to have no draught and is a network-type site, join controlled. On the first trip just the easy open passages were explored and surveyed. The open, big and dry nature of the cave suggests it may have archaeological interest
The second trip added some detail to the survey.

Reference: anon., 2011d (summer logbook. Entrance pictures: yes Underground pictures : yes Video :
Detailed Survey : yes Line Survey : On area survey :
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic declin
December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.)

Original description: (With length 5 m , depth 15 m ) Two holes are 3 meters apart, the top hole being the largest. The entrance hole is 1.5 m deep with sandstone rocks now on the floor. A 5 m deep rift is entered and this

\section*{Ditailed
Line}

\section*{Area position}

Initially described as a draughtless, small hole between sandstone blocks, the site was opened up to a chamber with a sandstone roof and large boulders on the floor in a cross rift. The NE rift is too tight but the SW rift was dug into by moving boulders and this led to a 6 m long section about 3 m below the chamber.

Reference: anon., 2011d (summer logbook) Reference: anon., 2011
Entrance picture: yes Underground pictures : yes Video:
 Line Survey On area surve
Survex file :
Survex file
X
3571: sink
Hornedo 30T 4489094801063 (Datum: ETRS89 Accuracy code: G) Altitude 94 m Area position

A small sink.
Reference: anon., 2011d (summer logbook) Entrance picture: yes Video :
Detailed Survey : Line Survey : On area surve Survex file :

\section*{x}

\section*{3572: Big Rock Cave}

Hornedo 30T 448811 4801061 (Datum: ETRS89.
Accuracy code: G) Altitude 97m Length 16 m Depth 4 m

Updated 20th February, 12th May 2018
A good draught was felt coming from a small hole under a large rock in the south east corner of a field. An hour of digging and removing rocks made the hole big enough to enter. There is a way on descending 5 m down dip - this was not entered and no draught was felt, but a good draught was felt from the south trending hole heading into the hill. Watch out for the BIG spiders the entrance! The cave has been left with logs over the hole. Not finished.

The entrance was draughting well on a visit in February 2018. The following Easter the hole was re-opened, explored down a 6 m entrance slope then dug to a 10 m crawl with no way on. The entrance is now stockproof.

Reference: anon., 2011d (summer logbook); anon 2018a (January, February logbook); anon., 2018b Easter logbook) Entrance picture: 2011

\section*{Video:}
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Detailed S

$$
\begin{aligned}
& \text { Detailed Surve } \\
& \text { Line Survey: } \\
& \text { On area surve }
\end{aligned}
$$

```
\[
\begin{aligned}
& \text { On area survey: } \\
& \text { Survex file : }
\end{aligned}
\]
Survex file :
X

3573: Farmer's Hole

Updated 3rd May 2012
A 25 m deep, draughting, wide rift with lots of bags of bones and plastic buckets but no smell of any fresh deposits. The rift narrows and passage can be seen ahead. Sandstone rocks prevented progress before the cave was explored " 80 m to cracks". (No more details.)

Reference: anon., 2011d (summer logbook); anon. Reference: anon., 201
2012b (Easter logbook) Entrance picture: yes Underground pictures Video: Detailed Survey On area sur Survex file

X
3574: Oak Tree Cave

An open cave with an oak tree in the entrance. A 5 m deep chamber with a flake and large boulder in the centre. There is a climb on the south side. The cave has no draught and no obvious way on.

Reference: anon., 2011d (summer logbook) Entrance picture: yes
Entrance picture: yes
Underground pictures

\section*{3575: Golf Ball Hole}

Hornedo 30T 4488484800543 (Datum: ETRS89. Accuracy code: G) Altitude 115 m Area position

A small hole in a large depression where an orange golf ball was found. No draught.

Reference: anon., 2011d (summer logbook) Entrance picture: yes Underground pictures
Video
Detailed Survey Detailed Su
Line Survey Line Survey:
On area surv
Survex file: Survex file

\section*{3577: cave}

La Gatuna 30T 4495344800016 (Datum: ETRS89 Accuracy code: G) Altitude 152 m
Length 6 m Depth 2 m
Area position
Two digs were started here close together then all effort concentrated on the left hand then all effort concentrated on the left hand one, against a water-worn cliff. After digging down \(2 m\) in sandy soil with a few rocks, a squeeze was negotiated into a chamber about 5 m long by 1.2 m high. Roof continues down at \(45^{\circ}\) at a possible dig site but not considered a top priority.

Reference: anon., 2011d (summer logbook)
Reference: anon.,
Entrance picture: ye

Video
Detailed Survey
Line Survey
On area surv
Survex file :

3578: dig

A draughting cold store which is a long term dig along a rift in the floor. Permission to dig dig along a rift in the floor. Permissic
is being sought from the land owner. A couple of capping sessions were required A couple of capping sessions were required
to reach a depth of 5 m in October 2016 but to reach a depth of 5 m in October
substantial extra work is required.

Reference: anon., 2011d (summer logbook); anon. 2013d (su logbook) Entrance picture: 2011 Underground pictures : Video
Detailed Survey Line Survey On area sur
```

Survex file

```

\section*{3579: shaft}

Ieopuerta 3074472934796377 (Datum: ETRS89. Accuracy code: G) Altitude 255 m
Length 7m Depth 7 m
Area position
A body-sized entrance into a corkscrew descent of 7 m to a tight, mud-filled slot with a slight draught.

MATIENZO UNDERGROUND site descripioions (printed 19/02/2024) Volume 5 - page 106

Reference: anon., 2011d (summer logbook)
Entrance picture: yes Entrance picture: yes
Underground pictures Video:
Detailed Survey
Line Survey
On area survey
Survex file :
x
3580: hole Fuenteciil

Undocumented hole next to site 3581 . Is this the second entrance?

Reference: anon., 2011d (summer logbook) Entrance picture: Underground pictures Video :
Detailed Survey Line Survey On area surv
Survex file :

3581: cave
fuentecil 30T 4458024800217 (Datum: ETRS89. Accuracy code: G) Altitude 203m Length 50 m Area position

A hole found in June 2011 and in the same depression as site 3459. A 50 m long walkin passage to a calcite choke. "Well choked." A second entrance can be accessed from part way up the slope in an adjacent shakehole. (Could that be site 3580 ?

Reference: anon., 2011d (summer logbook) Entrance picture
```

Video:
Detailed Survey :

```
Line Survey
On area survey
Survex file :
x
3582: diq
Las Calzadillas 30T 4477354796457 (Datum
Las Calzadillas 30T 4477354796457 (Datum
ETRS89. Accuracy code: G) Altitude 341m
Depth 4 r
Area position

A hammerable entrance to a tight \(3-4 m\) drop. No draught.
```

Reference: anon., 2011d (summer logbook)
Entrance picture: yes
Underground pictures
Undergr
Video :
Detailed Surv
On Surea surve
Survex file :
x
3583: cave
Cobadal 30T 4485094797283 (Datum: ETRS89.
Accuracy code: G) Altitude 298m

```
A small cave and dig in this "hidden valley"
of depressions.
Reference: anon., 2011d (summer logbook)
Reference: anon., 2011
Entrance picture: yes
Entrance picture: yes
Underground pictures
Video :
Detailed Survey
Line Survey
On area survey :
On area sur
Survex file :
3584: shaft
3584: Shaft
El Suto 30T 4507034800923 (Datum: ETRS89.
El Suto 30T 450703 4800923 (Datu
Accuracy code: G) Altitude 115 m
Accuracy code: G) Altit
Length 3 m Depth 3 m
Length 3 m D
Area position
Updated \(6^{\text {th }}\) May 2016

Found by the roadside, this was initially a 2.6 m drop to a cave with a too tight top. It was eventually opened up to reveal
choked floor with no way out. A rechoked floor with no way out. A re-
positioning of the entrance in 2016 showed positioning of the entrance in 2016 showed
the site be above a passage near the bottom entrance to Cueva Espada.
Reference: anon., 2011d (summer logbook); anon.,
2016b (Easter logbook) Entrance picture: August 2011 : Easter 2016 Underground pictures : yes
```

Video :

```
```

Detailed Surve

```
On area survey :
Survex file :
x

3585: shafts -3
Cobadal 30T 4486224797481 (Datum: ETRS89 Accuracy code: G) Altitude 295 m
Depth 4 m
Depth 4m
Area position
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 \(\begin{aligned} & \text { Volume 5-page } 10\end{aligned}\)

A line of 3 small, unexplored shafts across the hillside. The GPS above is for the top one (about 4 m deep). At Easter 2016, the holes were described as a few metres deep but were they explored?

Reference: anon., 2011d (summer logbook); anon., 2016b (Easter logbook Entrance picture:
Video :
Detailed Survey
Line Survey
On area sur
Survex file

\section*{3586: dig}

\section*{El} El Naso 30T 4513154797095 (Da
Accuracy code: G) Altitude 327 m Accuracy code

\section*{Updated 5th October 2015}

An alternative GPS reading is 045131 4797092.

A dig. (No writeup in the log book?)
Reference: anon., 2011d (summer logbook)?; anon., 2015c (summer logbook) Entrance picture: yes
```

Undergr

```
Video
Detailed Survey
Detailed Sur
Line Survey
On area sur
Survex file
Surv

3587: cave
Muela 30T 455160 4796434 (Datum: ETRS89 Accuracy code: A) Altitude 617 m Area position

On the track near the left hand bend to where the track reaches a level section. An unexplored open hole with stal

Reference: anon., 2011d (summer logbook
Reference: anon., 2011
Entrance pictures: yes
Entrance pictures: yes
Video :
Detailed Survey
Line Survey
On area survey Survex file

\section*{3588: shaf}

San Antonio 30T 4458744800133 (Datum: ETRS89. Accuracy code: G) Altitude 217 m Area position

A \(5 m\) deep choked shaft \((2 m \times 3 m)\). The ways on are blocked by run-in. (Entrance is ways on are blocked by run-in. (Entran
20 m south of GPS by a fence - the grid 20 m south of GPS by a fence - the grid
reference above may or may not have been reference above may or may not have been corrected.)

Reference: anon., 2011d (summer logbook) Entrance pictures: yes Underground picture
Video
Detailed Survey : Line Survey On area sur
Survex file
x
3589: shaf
La Gatuna 30T 4498934800060 (Datum: ETRS89 Accuracy code: G) Altitude 192m

\section*{Length 2 m Depth 2 m} Area position

A 2 m deep pot with a wall around one side An easy dig at the bottom and a sligh draught out.

Reference: anon., 2011d (summer logbook Entrance pictures: yes
Video
Detailed Survey
Line Surve
On area survey
Survex file

3590: dig
La Gatuna 30T 4498944800083 (Datum: ETRS89 Accuracy code: G) Altitude 190 m Area position

A tree may block the passage continuation at this site. Choked at base of entrance shakehole with sandstone blocks.

Reference: anon., 2011d (summer logbook Entrance pictures: yes Underground picture
Video
Detailed Survey : sketcl
Line Survey :
On area survey
Survex file
MATIENZO UNDERGROUND site descripions (printed 1902(2024) Volume 5 - page 108 Accuracy code: G) Altitude 90 m
Area position

A narrow rift with a pot in the floor.
Reference: anon., 2011d (summer logbook) Entrance: pictures: yes
Underground pictures Underground picture
Video: Detailed Surve
Line Survey : On area surve
Survex file :

\section*{x}

3592: diq
Sa Gatuna 30T 4493314800255 (Datum: ETRS89. Accuracy code: G) Altitude 182 m \begin{tabular}{l} 
Accuracy yod \\
Area position \\
\hline
\end{tabular}

A dig in soild and boulders. (Not in logbook?)

Reference: anon., 2011d (summer logbook)?
Entrance pictures: yes Entrance pictures: yes Underground pictures Video : yes
Detailed Sur
Line Survey : On area surve
Survex file :
x
3593: cave
La Gatuna 30T 4493754800255 (Datum: ETRS89. Accuracy code: G) Altitude 180 m
Area position Area position

A wall excavated into a bouldery cave. (Not in logbook?)

Reference: anon., 2011d (summer logbook)? Reference: anon., 2011 Underground pictures : Video: yes
Detailed Survey
Line Survey: Line Survey On area sury
Survex file :
X
3594: Luna de Miel, Torca de
 Hornedo \(\begin{aligned} & \text { Accuracy code: A) Altitude } 149 \mathrm{~m}\end{aligned}{ }^{\text {a }}\), Length 37 m Depth 35 m
Area position
Updated 5th November 2011; 3rd May, 28th September 2012; 21st October 2013; 25th May 2014

A draughting, excavated shaft at the end of a surface rift. The site was dug on a few a surface rift. The site was dug on a few
occasions over the summer, 2011. A ladder occasions over the summer, 2011. A ladder at the entrance ended just above a lar! flake which dropped (during autumn
excavations) and prevented safe access t excavations) and prevented safe access
the lower reaches. The 2 m deep flake dropped a couple of centimetres when material was being excavated below. It was removed at Easter 2012.

Below is feet first through a narrowish section into a small chamber. A 3 m climb down enters the next, small chamber. Directly below a feet-first route goes down through another narrow section to a back-and-foot rift climb down to a bedding squeeze with a slot to pass. Another 3 m climb down enters the 2011 end - a chamber with a muddy rock floor and draughting pitch head obstructed by a boulder. A chamber / passage floor has been disto'd 12 m below. This appears to be at a major level in Torca la Vaca.

The pitch was cleared and dropped at Easter 2012 but the hoped-for passage was an 2012 but the hoped-for passage was an required. Boulders higher up the cave required. Boulders higher up the cave
moved after cavers had passed through and moved after cavers had passed throu
these are currently blocking access.

A return visit in the summer, 2012, dug at the base of the final shaft until a longer bar was required. A couple of other digs were started in the climb down just before the Wobbly Block Squeeze. A second visit found a draughting horizontal hole hidden from view behind a large rock at the top of the final pitch. This was dug out to reveal a 15 m pitch with a tight rift at the base and a 3 m drop. Two further tight rifts were seen but not inspected. A large block roofing the crawl between the top of the 'old' final pitch to the new shaft was seen to have developed a large crack.
The next visit took foam to stabilise the wobbly squeeze down through boulders, wobbly squeeze down through boulders,
with mixed success. The crack in the large with mixed success. The crack in the large
block was seen to have expanded and so block was seen to have expanded and so abandoned for the moment. A visit in April

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\[
\begin{aligned}
& 2014 \text { cor } \\
& \text { unsafe. }
\end{aligned}
\]

Other sites of interest in or around the depression over this end of Torca la Vaca depression over this end of Torca la Vaca
include 2916, \(3905,3906,3914,3916\), include 2916, 39
3924 and 3925.
Reference: anon., 2011d (summer logbook); anon. 2011e (autumn logbook); anon., 2012d (summer 2011e (autumn logbook); anon., 2012d (summer logbook);
logbook)
Entrance pictures: yes
Underground pictures : entrance shaft : summer 2012
Video : autumn 2011 - excavations at base of entrance pitch
Detailed Survey : pdf
Line Survey:
On area survey :
Survex file : yes (also has surface survey line) Survex file : yes (also has surface survey line)
(Amended magnetic declination December 2013 align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.)
with Torca la Vaca and other immediate sites. (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.)

3595: dig
Hornedo 30T 4484324800274 (Datum: ETRS89. Hornedo 30 T 4484324800274 (
Accuracy code: A) Altitude 155 m Accuracy code
Area position

A draughting dig in a shakehole in the Langdales.

Reference: anon., 2011d (summer logbook) Entrance pictures: yes Video :
Detailed Survey
Line Survey
On area surve Survex file

\section*{3596: cave}

Hornedo 30T 448445 4800257 (Datum: ETRS89. Accuracy code: G) Altitude 155 m Area positior

Updated 25th May 2014
A small, cool cave and possible dig in the next shakehole to the NW on the same line as site 3954 entrance rift. This was declared a "no go" when visited in April 2014.

Reference: anon., 2011d (summer logbook); anon. 2014b (Easter logbook)
Entrance pictures: yes
Video
Detailed Survey
Detailed Sur
Line Survey :
Line Survey
On area sur
Survex file :
x
3597: shafts - 4
Riaño 30T 4509724799964 (Datum: ETRS89.

Depth4m
Area position

A row of 4 unexplored, small holes, some with mud sides at the top, and non deeper than 4 m , all sited below the rim of a large depression near a barn. There is also a small resurgence on the southern side. The GPS position above is for the centre of the row.

Reference: anon., 2011d (summer logbook) Entrance pictures: yes
Underground pictures Video:

\section*{Depth \(2 m\)
Area posit}

A small hole covered by grass with a 2 m drop to a slope down. Undescended.

Reference: anon., 2011d (summer logbook) Reference: anon., 2011
Entrance pictures: yes
Underground pictures Entrance pictur pictur
Uideo : Detailed Line Survey : On area surve
Survex file :
X
3600: shaft
Mullir 30T 455141 4795488 (Datum: ETRS89 Accuracy code: G) Altitude 752 m Area position

An undescended, 10 m deep shaft.
Reference: anon., 2011d (summer logbook) Entrance pictures: yes Inderground pictures Video : Detailed Survey On area surve Survex file

X
3601: shaft
Mullir 30T 4551194795478 (Datum: ETRS89 Accuracy code: G) Altitude 760 m Depth \(2 m\)

\section*{Area position}

A walk into a depression with an unexplored 2 m drop in one corner.

Reference: anon., 2011d (summer logbook) Entrance pictures: yes Underground pictures Video: Detailed Survey Line Survey Survex file :

X
3602: Orcones, Sumidero de (2034 (French: SCD)
Bustablado 30T 4469254792437 (Datum: ETRS89 Accuracy code: A) Altitude 248 m
Length 1800 m Depth 60 m Length 1800 r
Area position

Updated 5th November 2011; 5th Decembe 2013; 5th January 2015; 11th February 2016; 24th September 2018; 17th November 2022

According to Simonnot G, 2016, the site position is ETRS89 04469164792435.

A cave at Bustablado (and hence out of our caving area) with a number of sumps. French cavers are actively exploring the site. Downstream has reached a considerable depth and split. Upstream may be the inlet from Torca del Hoyón and downstream may continue to Cueva Molino. Further details can be found on the Cueva Molino page. Some info is found on the Cuevas del Asón blog.

The information below has been roughly translated The information below has been roughly transla
from the French, Spéléo-Club Dijon reference,
Simonnot \(G, 2016\). Simonnot G, 2016.

1980 - The loss of Bustablado stream at a place called Orcones was spotted in August 1980 by G. Simonnot. Only twenty-nine 1980 by G . Simonnot. Only twenty-nine
years later further investigations take place years later further investigations take plac
(see Sumidero de Orcones 2, SCD2035 / (see Sumic
MCP4279) 2009 - July: The small entrance is
2009 - July: The small entrance is
discovered only fifteen meters from the discovered only fifteen meters from the
stream sink. After rapid enlargement to stream sink. After rapid enlargement to
make it practicable to -10 m hard unblocking (nearly two hours) driven by the draught, strong on a summer day, allows access to Munke Gata \((-30 \mathrm{~m})\). About 250 m length. August: Topography and exploration of a meandering tributary. Length 300 m . 2010 - July: Diving the downstream siphon by Manu who goes 200 m in total and over the upstream siphon by Yann, 120 m . An draught blowing up in the small gallery before led to Munke Gata. Length 650 m . Topography of drained parts of the southern branch discovery and return of a branch heading eastward in the southern siphon Munke Gata. Length 950 m .
Diving following the east siphon 160 m further to -30 m . "Freeze lack of autonomy"? Length \(1,110 \mathrm{~m}\)
2011 - April: "Equipment turns Hazel" 2011 - April: "Equipment turns Hazel"? only (low point -23 m ) due to the fill forming a crawl 20 to 25 cm high. A passage to the a crawl 20 to 25 cm high. A passage to the
right to inspect. Diving downstream is 465 n right to inspect. Diving downstream is
long in total, "spring"? after \(440 \mathrm{~m}(80,200\) 160) (low point -30) in an airbell. At this MATIENZO UNDERGROUND - site descriptions (printed 19002/2024
level some dry land above water meander
throuah which a trickle of water could be raised on the left bank of 200 m . (diameter 5 to 6 m )

Link to entry in the Cave Diving Sump Index.

Reference: anon., 2011d (summer logbook); anon. 2011e (autumn logbook); Papard Guy, Corrin Juan and Smith Peter, 2014; Simonnot Guy, 2014;
Simonnot G, 2016; Simonnot G, 2018; Simon 2022
Entrance picture: November 2015
Underground pictures
Video :
Detailed Survey : part plan (2010)
Line Survey

A rift at the south side of a wooded depression near the new house. A tight, capped entry onto a 4 m climbable descent to a complete choke.

Reference: anon., 2011e (autumn logbook) Entrance pictures: Underground pictures Video :
Detailed Survey Line Survey Survex file :

X
3605: shaft
San Antonio 30 T 4467394801388 (Datum: STRS89. Accuracy code: A) Altitude 115 m Length 10 m Depth 10 m Area position pda

In a small depression just inside the wood, a in a small depression just inside the wood, p10 drops past large boulders with n
way on and no significant draught. way on and no significant draught. 2012 ) A possible sighting (27th October 2012
gives a grid reference of ETRS89: \(30 T\) gives a grid reference of ETRS89: 30T
0.446 .7404 .801 .356 altitude 125m, more 0.446 .7404 .801 .356 altitude 125 m , more
than 30 m south of the position above. This than 30 m south of the position abov
may be cleared up at Easter 2018 . may be cleared up at Easter 2018.
[Photos and video are in folder .. \(2018 \backslash\) Jan [Photos and video are in folder ..|2018\Jan-
Feb\PhilParker-batch2\2012a-ppa-hiding in CC's Feb\PhilParker-batch2 \20
notebook \(\backslash 2012-10-27\) b]

Reference: anon., 2011e (autumn logbook); anon., Reference: anon., 2011e (autumn 2018a (January, February
Entrance pictures: yes
Underground pictures :

\section*{Video :}

\section*{Detailed Sur}

Line Survey
On area survey :

3606: shaft
Ideopuerta 30T 4465534796416 (Datum: ETRS89 Accuracy code: G) Altitude 307 m
Length 4m D

Updated 7th December 2011
A small, 4 m deep, choked shaft about 25 m "downhill" from site 3420.

Reference: anon., 2011e (autumn logbook) Entrance pictures: yes Underground pictures Video:
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Detailed Surv

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Line Survey
On area survey :

X

\section*{3607: shaft}

Moncobe 30T 445928 4796245 (Datum: ETRS89. Moncobe 30 T 4459284796245 (D
Accuracy code: G) Altitude 334 m

\section*{Accuracy Depth 5 m}

Area position
This lies 5 m to the east of site 2758 . The shaft has been disto'd to 5.38 m depth, has no draught and is undescended.

Reference: anon., 2011f (Christmas logbook) Entrance pictures: yes Undergr
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Detailed Su

```
Line Survey
On area survey :
X

3608: shaft
Moncobe 30T 446114 4796342 (Datum: ETRS89. Accuracy code: G) Altitude 316 m
Depth 4 m
Depth 4 m
A 4 m deep hole to a floor and a dead black goat. A small, possible dig if you are desperate. Undescended.

Reference: anon., 2011 f (Christmas logbook)
Entrance pictures: yes
Underground pictures :
Video :
Detailed Survey : sketch
Detailed Surve
Line Survey:
On area survey
X
3609: cave
Moncobe 30T 4462474796499 (Datum: ETRS89.
Moncobe 30T 4462474796499 (Di
Accuracy code: G) Altitude 227 m
Length 5 m
Area position
Area position

Updated 26th January 2012
In the wood to the east and above El Cubilion. A 5m long cave to a dig. There is grass bedding on the floor.

Reference: anon., 2011f (Christmas logbook) Entrance pictures: yes Entrance pictures: yes Video :
Detailed Survey : sketch
Line Survey
On area survey

3610: dig
Moncobe 30T 4462314796494 (Datum: ETRS89. Accuracy code: G) Altitude 228m
Depth 3 m
Area positio
A dig a short distance below site 3609. A draughtless \(30 \times 15 \mathrm{~cm}\) hole opens out a littl and is disto'd to 2.5 m deep to where it may turn to the right.

Reference: anon., 2011f (Christmas logbook) Entrance pictures: yes

3611: dig
SV11: dega 30T 450828 4793982 (Datum: ETRS89 Sccuracy code: G) Altitude 650 m
A Area position

A dig to the west of site 0782, between it and the wood. An easy dig in boulders but and the wood. An easy dig in boulders but
there was no draught when the temperature there was no draught when the tempera
was 11C. It might be worth checking in was 11C. It might
warmer weather.

Reference: anon., 2011f (Christmas logbook) Entrance pictures: yes Underground pictur
Video :

3613: shaft

\section*{3615: cave}

Updated 29th November 2012 reasonable passage. Entrance boulders were reasonable passage. Entrance boulders were
removed to reveal 2 m of low cave to a total blockage.

Reference: anon., 2011 f (Christmas logbook); anon., 2012 e (autumn logbook) Entrance pictures: yes Undergro
Video : Detailed Survey Line Survey On area survey :
x
3616: cave
Ideopuerta 30T 4464144796870 (Datum: ETRS89 Accuracy code: G) Altitude 205 m Length 15 m
Area position

Updated 29th November 2012
The entrance lies above and to the right of site 3615 . A 10 m long cave sloped down to a blockage which was removed in November 2012 to reveal a 3 m slope down to a calcited, small chamber. There was no obvious way on through the floor and no draught was noted. A crawl / inlet on the left chokes.

Reference: anon., 2011f (Christmas logbook); Reference: anon., 2011f (Christ
anon., 2012 e (autumn logbook) Entrance pictures: yes Underground pictures : yes Video:
Detailed Survey
Line Survey
On area survey :
X
3617: cave Ideopuerta 30T 4464364796864 (Datum: ETRS89 Accuracy code: G) Altitude 221 m Area position

This is an obvious hole seen from the path above sites 3615 and 3616 . There was lots above sites 3615 and 3616. There was lots of thrashing to the hole but it turned out to be a foxhole with no potential.

\section*{Reference: anon., 2011f (Christmas logbook)} Entrance pictures: yes
Underground pictures
Undergro
```

Video :
Detailed Survey

```
Line Survey:
x

3618: Red Stripe Hole
Mullir 30T 4563444795335 (Datum: ETRS89.
Accuracy code: G) Altitude 506 m Length 3 m Area position

A small shelter at the track side with a bottle at the back and red stripes on stal at the entrance. Not entered.
```

Reference: anon., 2012b (Easter logbook)
Reference: anon., 2012
Video:
Detailed Surve
Line Survey
On area surve
Survex file :
X
3619: shaft
La Secada 30T 4529964797214 (Datum: ETRS89. Accuracy code: G) Altitude 285 m Length 7m Depth 1 m Area position

```

\section*{Updated 25th October 2016}
[This number was originally allocated to a shaft at Seldesuto that turned out to be site 569.]

A flat out crawl that closes in after 7 m .
Reference: anon., 2012b (Easter logbook); anon., 2016c (summer logbook) Entrance pictures: yes
Underground picture : yes Video:
```

Detailed
Line Survey

```
On area survey
Survex file : yes
X
3620: cave
Seldesuto 30T 4493554793549 (Datum: ETRS89.
Accuracy code: G) Altitude 590 m
Length 15 m Depth 10 m
Area position

In a depression in a valley. A 15 m scramble down to a choke.

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Reference: anon., 2012b (Easter logbook)
Entrance picture : yes Underground pictures down slope leads to the head of the first pitch, p7. A 4 m drop leads to the head of an 8 m pitch. A 10 m sloping drop ends at a 7 m pitch that drops into a \(10-12 \mathrm{~m}\) diameter chamber with a couple of blind holes unde boulders. A steep, scalloped, clean-washed rift drops down to a small, circular shaft that lands in an elongated chamber.

The main way out is a tight rift, quickly opening to a fossil streamway for about 12 m to a mud sink and no possible way on. In the opposite direction is a narrow rift that becomes too tight about 6 or 7 m . This did not look promising.

For SRT, a 60 m rope, 10 hangers and 3 slings will tackle the pitches and climbs between them.

Reference: anon., 2012b (Easter logbook); Corrin Juan, 2013a
Entrance picture : yes
Underground pictures: y
Video : exploring crawl to first pitch

\section*{Depth 15m}

Updated 25th October 2016
An unexplored small shaft of about 15 m depth. This site couldn't be found in August 2016 although the search was in poor weather.

Reference: anon., 2012b (Easter logbook); anon., 2016c (summer logbook) Entrance picture : yes Underground pictures : Video :
Detailed Survey Line Survey On area survey
Survex file : Survex fil

X
3626: shaft
Seldesuto 30T 4492994793666 (Datum: ETRS89 Accuracy code: G) Altitude 609 m
Depth 10m
Area position
An unexplored narrow shaft of about 10 m depth.

Reference: anon., 2012b (Easter logbook) Entrance picture: yes
Underground pictures Video:
```

Detailed S

```
\[
\begin{aligned}
& \text { Detailed Surve } \\
& \text { Line Survey: }
\end{aligned}
\]
On area survey
Survex file :

X
3627: shaft
Seldesuto 30T 449372 4793513 (Datum: ETRS89. Accuracy code: G) Altitude 598m
Length 30 m Depth 5 m

\section*{Area position}

\section*{Updated 25th October 2016}

A 3 m scramble to a sharp corner is followed by a 3 m climb down into a small chamber with a 5 m pitch. At the base, a tight section has been partly enlarged towards a possible 20 m pitch. The hole takes a draught.

Reference: anon., 2012b (Easter logbook); anon., 2016c (summer logbook) Entrance picture : Easter 2012 : summer 2016 Underground pictures Video: Detailed Sur
Line Survey On Survey :
Survex file :
X
3628: hole
La Secada 30T 4528114797795 (Datum: ETRS89. Accuracy code: G) Altitude 165 m
Area position Area position

Updated 25th May 2014
A hole on the right of the track, just before entering the Mushroom Field. The hole entering dion 3 m to a dig with possible
slopes down slopes do
draught.

Reference: anon., 2012b (Easter logbook); anon., 2014b (Easter logbook) Entrance picture: yes

\section*{Video :}
```

Detailed

```
\[
\begin{aligned}
& \text { Detailed Surve } \\
& \text { Line Survey: }
\end{aligned}
\]
On area survey

Survex file :
x
3629: dig
San Antonio 30T 4459404801286 (Datum ETRS89. Accuracy code: G) Altitude 108 m Area position

Updated 16th May 2012
A draughtless dig at the base of small scar had a boulder removed to access 3 m of tigh rift to a 2 m vertical rift to a sandy floor There is no draught and "its not worth any further digging".

Reference: anon., 2012b (Easter logbook) Entrance picture : yes Underground pictures Video :
Detailed Survey
Line Survey : Line Survey On area surve
Survex file :

X
3630: digs
San Antonio 30T 4459834801269 (Datum:

\section*{Area positio}

Updated 5th June 2019
Two draughting digs in the bottom of a large depression near to Maze Cave. Both have good draughts. Both have been dug but to tinue would be a major operation.

Reference: anon., 2012b (Easter logbook); anon. 2019b (Easter logbook)
```

Entrance picture: yes

```
Video :
Detailed Survey
Line Survey :
On area survey
Survex file :

\section*{3631: cave}

A small choked tube at the base of a lon cliff. A stream sink is nearby..

Reference: anon., 2012b (Easter logbook) Entrance picture : yes
Underground picture
Video :
Detailed Survey
e Survey On area sur
Survex file :

\section*{3632: dig}

N Vega 30T 4495144796301 (Datum: ETRS89 Accuracy code: G) Altitude 348 m

\section*{Accuracy code
Area position}

Updated 29th November 2012
On a warm day this dig has a cold draught out. It lies between site 2661 and a barbec wire fence in the direction of site 0434. It has been partially dug into the top of silted chamber. It really needs the whole mud bank digging away.

When visited in November, 2012, the site was described as a narrow draughting rift was described as a na

Reference: anon., 2012b (Easter logbook); anon., 2012e (autumn logbook) Entrance pictures: yes Video :
Detailed Survey
Line Survey
On area surve
```

Survex file

```

\section*{3633: cave}

Riaño 30T 452037 4798988 (Datum: ETRS89 Accuracy code: A) Altitude 325 m
ength 20 m
The entrance is a crawl in a scar. From a \(3 x\) 2 m chamber turn left into a larger chamber \((3 \times 6-8 m)\). From here there are 2 small inlets. There is old calcite in abundance and a choked bedding heads off into the hill. No draught.

Reference: anon., 2012b (Easter logbook) Entrance picture
```

Underground picture

```
Video
Detailed Survey : sketch
Line Survey
On area sur
Survex file
x
3634: shaf
Riaño 30T 4519924799066 (Datum: ETRS89
Accuracy code: A) Altitude 302 m
Depth 8m
An unexplored 8 m deep shaft which has nc
draught
Reference: anon., 2012b (Easter logbook)
Reference: anon.,
Entrance picture
Entrance picture :
Video :
Detailed Survey
Detailed Sur
Line Survey
Line Survey:
On area survey
Survex file

3635: sink
Riaño 30T 4520734799074 (Datum: ETRS89 Riaño 30 T 4520734799074 (Datu
Accuracy code: A) Altitude 305 m Accuracy code
Area position

\section*{A stream sink.}

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Reference: anon., 2012b (Easter logbook)
Entrance picture : Entrance picture :
Underground pictur Video :
Detailed Survey Line Survey On area surve
Survex file : is an undescended pit that needs a ladder.

Reference: anon., 2012b (Easter logbook); anon., 2016b (Easter logbook) Entrance pictures : 2016
Underground pictures : 2016
```

Video:

```
```

Detailed S

$$
\begin{aligned}
& \text { Detailed Surve } \\
& \text { Line Survey }
\end{aligned}
$$

```
On area surve

Survex file :
X
3637: holes
El Suto 30T 450445 4800118 (Datum: ETRS89 Accuracy code: G) Altitude 242 m Area position

Several small holes at the side of a new track.

\begin{abstract}
Reference: anon.,
Entrance picture :
Entrance picture:
Underground pictures
Video :
Detailed Survey On Survey Survex file : X
3638: shaft
Las Calzadillas 30T 4483074794959 (Datum ETRS89. Accuracy code: A) Altitude 404 m
\end{abstract} ETRS89. Accuracy code: A)
Length 152 m Depth 50 m
Area position

Updated 24th May 2017
An open, 3 m diameter shaft. A 10 m pitch ends at a small window onto a 22 m pitch There is a strong draught here. A small, clean-washed, cobble-floored, winding passage leads off from the bottom of the pitch for 30 m to a small enlargement at a 4 m drop which continues to a blind 8 m deep hole in the floor. At roof level, a tight hole in the floor. At roof level, a tight passage leads to further drops of 8 m this time into a chamber. The route out of
chamber is a stooping passage which chamber is a stooping passage which
degenerates into a crawl with possible digs degenerates into a crawl with possible digs t terminal chokes.
The site was looked at again at Easter 2017 and the following rigging notes produced. It also appears that the survey (survex file) is wrong and the whole cave should be re-surveyed.

\section*{RIGGING}
p1: 10 m drop off trees. 12 m rope required. p2: 22 m . Through bolt above letterbox and 4 m long sling rebelay and rope protector, then \(Y\)-hang off 2 through bolts to the bottom. 35 m rope. (Suggest an extra through bolt above letterbox if drill available.) Rigging notes by Patrick Warren

Reference: anon., 2012b (Easter logbook); Corrin Reference: anon., 2012b (Easter logbook);
Juan, 2013a; anon., 2017b (Easter logbook) Entrance pictures : yes
Underground pictures : Easter 2012 : Easter 2017 Video:
Detailed Survey : being prepared Line Survey On area survey :
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic declinat
December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014. .
x
3639: dig
La Secada 30T 4530144797862 (Datum: ETRS89. Accuracy code: G) Altitude 241 m
Area position

Updated 6th January 2024
A hole "in the gorse" draughting in slightly. It could not be found in December 2023, when daylight was failing.

Reference: anon., 2012b (Easter logbook); anon., 2023e (Christmas logbook)
Entrance picture
Video :
Detailed Survey
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\section*{Line Surve}

\section*{3640: shaft}

La Secada 30T 4534044798090 (Datum: ETRS89 Accuracy code: G) Altitude 365 m

Updated 25th October 2016
An undescended 8 m shaft on the pylon
track. The grid reference puts it downhill o the pylon track and, when investigated at this position in the summer 2016, there appeared to be no shaft, rather a bouldery floor and a possible dig.

Reference: anon., 2012b (Easter logbook); anon 2016c (summer logbook)

```

Underground pictures:

```
Video:
Detailed Survey
Line Survey
On area survey
Survex file :
x
3641: sink
Barrio de los Urros 30T 4487304800015 (Datum:
Barrio de los Urros 30T 4487304800015 (
ETRS89. Accuracy code: G) Altitude 196 m
Area position

\section*{A stream sink.}

Reference: anon., 2012b (Easter logbook)

\section*{3642: dig}

Hornedo 30T 4489374800213 (Datum: ETRS89. Accuracy code: G) Altitude 167 m
Depth 8 m

\section*{Area positio}

A hole under sandstone with a rift and stal visible below. Stones rattle down about 8 m

Reference: anon., 2012b (Easter logbook) Entrance picture : yes Underground pictures Video :
Detailed Survey
Detailed Sur Line Survey
On area sur Survex file with a possible dig.

\section*{Reference: anon., 2012b (Easter logbook} Refrence picture, : yes
Entrarground pictures
Underground picture.
Video
Detailed Survey
Line Survey
On area survey
Survex file

3644: dig

An "unpromising" hole at the bottom of shakehole.

Reference: anon., 2012b (Easter logbook) Entrance picture : ye
Undergr
Video :
Video:
Detailed Survey
Line Survey:
Line Survey
On area survey
Survex file

3645: cave
Hornedo 30T 4489884800392 (Datum: ETRS89. Accuracy code: G) Altitude 113 m

Reference: anon., 2012b (Easter logbook); Corrin
Juan, 2013a Entrance pic Underground pictures Video: yes Detailed Survey : pdf Line Survey :
Survex file : yes (Amended magnetic declination December 2013 to align with December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014
x
3646: dig
Hornedo 30T 4489904800400 (Datum: ETRS89. Accuracy code: G) Altitude 113 m
Area position Area position

The badgers' entrance to the badger sett, site 3645 .

Reference: anon., 2012b (Easter logbook) Reference: anon., 2012
Entrance picture : yes Underground pictures Video:
Detailed Survey Line Survey On area surve
Survex file : Survex fil

X
3647: diq
Hornedo 30T 4488854800292 (Datum: ETRS89 Accuracy code: G) Altitude 137 m
Area position
```

Area position

```

A dig in the side of a shakehole which looks deep but is full of rubble.

Reference: anon., 2012b (Easter logbook) Entrance picture : yes Video : Detailed Survey
Line Survey: Line Survey Survex file :
x
3648: shaft
Moncobe 30T 4462014796941 (Datum: ETRS89. Accuracy code: A) Altitude 258 m
Length 10 m Depth 3 m Length 10 m
Area position

Updated 28th September 2012
A fallen tree covers a rift on the left bank wall of a deep gulley. Stones rattle down about 3 m and there is a slight draught. This was excavated to reveal about 5 m of level, tight passage to, what looked like, man-size passage. On closer examination, 6 m to the east in the same scar, hidden in the vegetation. another hole was found. Some large boulders were removed to reveal a 2.5 m narrow sloping drop to a T-junction. Left around two sharp bends, the passage choked underneath the observed end of the original dig. Right at the T-junction starts as walking, hands and knees then flat out waking, hands and knees then flat out
going to a small inlet on the right. Forward going to a small inlet on the right. Forv
is a small descending mud tube which is a small descending mud tube which
become too tight with a slight draught. "Not become too tight with a s
worth pursuing further."

Reference: anon., 2012b (Easter logbook); anon., 2012d (summer logbook) Entrance pictures : yes Video: Detailed Survey : sketch Line Survey On area surve
Survex file :
x
3649: Casa Vieja, Cueva de la Moncobe 30T 4462384796966 (Datum: ETRS89 Accuracy code: A) Altitude 246m Length 318 m Depth 126 m
Area position
Updated 28th September, 9th October, 29th November 2012; 30th April 2013

The entrance is an obvious 1.5 m diameter opening in the right side of a low cliff in the second wooded gulley from Casa Vieja farm just before the gulley opens into an amphitheatre. The entrance usually takes an inward draught.
A short crawl leads to a 3 m drop best descended by a short ladder. A roomy L-
shaped chamber leads down to an undercut which degenerates into a 5 m long crawl with leaves and other flood debris. The water evidently comes through boulders under the gulley in wet weather. The crawl ends in a sediment blockage. The blockage is sediment blockage. The blockage is
bypassed by climbing a short, excavated bypassed by climbing a short, excavated
climb at the end of the chamber leading to climb at the end of the chamber leadin
3 m climb down a small rift. This leads 3 m climb down a small rift. This leads
almost immediately to a 4 m pitch (artificial almost immediately to a 4 m pitch (artificial anchors) into a roomy chamber that takes the water in wet weather. Twenty metres of easy passage leads to 14 m pitch (artificia MATIENZO UNDERGROUND - site descriptions (printed 1910022024 \(\begin{gathered}\text { Volume } 5-\text { page } 12\end{gathered}\)
diameter chamber at the far left side of
which is an upslope in a rift, filled by larg pitch. The base of this has two passages, one 3 m long to a blind chamber, the othe one 3 m long to a blind chamber, the oth
7 m rising to two boulder-filled, choked 7 m rising to two boulder-filled, c
inlets. (Not in surveyed length.) On the far right side of the chamber the On the far right side of the chamber the eontinues down a steep slope of very loose boulders for 20 m . It levels out on sandstone ledges over a 4 m long hole below which is an 85 m pitch. The rift above the pitch may be followed for about 10 m under a fallen flake to a flat-out crawl on wet mud to a point where it becomes very tight. This has been pushed 4 m to the head of another 'large' 4-to-6-second-drop pitch.
The 85 m pitch leading into a 10 m circular shaft can be descended via artificial anchors to a flake-and-sling deviation about 35m down and then two Y -hangs to a cleanwashed cobble strewn floor with no outlet. A 5 m climb up from a fallen flake leads to a mud-floored saddle with artificial anchor for the next descent. About 20 m of a series of offset drops all covered in wet mud leads to 5 m of low passage with a mud-pool floored outlet that is too tight

A bolt route down the left side of the 85 m
A bolt route down the left side of the 85 m pitch of about 40 m leads to a swing into a rift, the roof of which was once a ph
tube. The original tube can be seen tube. The original tube can be seen continuing at the other side of the shaft, it appears to be open and about 1 m high. The rift/tube runs approx east-west. To the east, up the rift, a cobbled floor can be seen which is probably under the hole found a the end of the low tight crawl pitch. The passage appears to be wide open and continuing and more bolting is required. [Description by Alf Latham; additional material, November 2012]

The bolting project was taken on at Easter 2013 and passage entered on the west side of the 85 m pitch. The passage was
traversed over a rock bridge and a 6 m pitch dropped into an area of large rifts with further pitches down, some estimated to be 20 m and large enough to descend. The site requires a high level of SRT skill and is not for novices

Reference: anon., 2012b (Easter logbook); anon., 2012e (autumn logbook); Corrin Juan, 2013a; 2012e (autumn logbook); Corr
anon., 2013b (Easter logbook) anon., 2013 b (Easter log
Entrance pictures : yes Undergr
Detailed Survey : plan and section : sketch of 40 m climb down to continuing passage, autumn 201 Climb down to continuing passage, a
Easter 2013 - survey in preparation Line Survey : Line Survey :
On area survey
below cliffs, is a 4 m deep hole, totally choked hole, with a slight outward draught. Reference: anon., 2012b
2012d (summer logbook) Entrance picture : yes
Underground pictures Underground pict
Video:
Detailed Survey : Detailed Surve
Line Survey : Line Survey :
On area survey On area survey
Survex file:

\section*{X}

3652: cave
Moncobe 30T 4461544797167 (Datum: ETRS89 Moncobe 30T 446154 4797167 (Di
Accuracy code: G) Altitude 250 m Accuracy code: G) Altit
Length 3 m Depth 5 m Area position

A 3m steep slope to an undercut beneath a rock face to a possible further small drop. There is no draught.

Reference: anon., 2012b (Easter logbook)
Entrance picture : yes Entrance picture : yes
```

nderground pictu

```
Video:
Detailed Survey :
Detailed Surv
On area surve
On area sury
Survex file :
x
3653: diq
Moncobe 30T 4462724797137 (Datum: ETRS89.
Moncobe 30 T 4462724797137 (Di
Accuracy code: G) Altitude 238 m
Area position

The draught-free, low entrance is in a rock face, just above a wire mesh fence. A short dig will gain access to a slope down into a crawl.

Reference: anon., 2012b (Easter logbook) Entrance picture : yes Underground pictures Video:
```

Detailed Surve

```
Line Survey :
On area surve
Survex fil

X
3654: shaft Moncobe 30T 4462774796310 (Datum: ETRS89 Mccuracy code: G) Altitude 246 m Accuracy C
Depth 6 m Area position

A narrow, undescended shaft, currently covered with rocks. The depth is about 6 m and it has a slight outward draught.

Reference: anon., 2012b (Easter logbook) Entrance picture Inderground pictures Video: Detailed Surv On area survey Survex file :
x
3655: shaft
Moncobe 30T 4462504796243 (Datum: ETRS89. Moncobe 3 accuracy code: A) Altitude 245 m
Depth 3 m

\section*{Area position}

Updated 24th May 2017
One of two sites with the same grid eference. The other is site 3656 A rift at the base of a cliff is an 8 ft drop onto a soil floor. A small window into further space needed some work to gain entry but this terminated in a small chamber. "Not worth a further visit."

Reference: anon., 2012b (Easter logbook); anon., Reference: anon., 2012 Entrance picture
Underground pictures
Video :
Video:
Detailed Survey :
Line Survey:
On area survey : Survex file :

X
3656: shaft
Moncobe 30T 446250 4796243 (Datum: ETRS89 Accuracy code: A) Altitude 245 m
Accuracy c
Depth 3 m
Area position
One of two sites with the same grid reference. The other is site 3655. A small shaft on the hillside with a good draught. A 3 m drop ends on a clay floor. Any floor excavation would need the spoil lifting up the shaft.

Reference: anon., 2012b (Easter logbook) Entrance picture

\section*{Video:}

\section*{Detailed Survey}

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\section*{Line Surve}

\section*{3657: shaft}

San Antonio 30T 4458924801038 (Datum:
ETRS89. Accuracy code: G) Altitude 130 m Length 2 m Depth 2 m Area position

A steep shakehole with a descending slot which turns a corner and blocks after 2 m

Reference: anon., 2012b (Easter logbook)
Entrance picture :
Entrance picture
```

Underground picture

```
Video :
Detailed Survey
Detailed Sur
Line Survey
On area sur
Survex file

\section*{3658: shaf} San Antonio 30T 4458174800960 (Datum: ETRS89. Accuracy code: G) Altitude 115m Length 5 m Area positio

A medium size shakehole with a slot in the bottom which turns a bend to a sandy floor.
```

Reference: anon.
Reference: anon., 2012b (Easter logbook)

```
Entrance picture :
Underg
Video:
Detailed Survey
Line Surve
On area survey
Survex file
3659: shafts
San Antonio 30T 4458134801053 (Datum:
San Antonio 30T 4458134801053 (Datum:
ETRS89. Accuracy code: G) Altitude 112 m
ETRS9. Acc
Depth 3 m
Depth 3 m
Area position
Are

A small double shakehole on the side of a knoll. Both have slumped shafts that quickly choke

Reference: anon., 2012b (Easter logbook) Entrance picture Underground pictures
```

Video:

```
Detailed Survey
Line Survey
On area survey
On area sur
Survex file
X

3660: shaf

A hole found in recently cleared forest. Two 2 m climbs down past large boulders reach a squeeze into a small chamber and a very loose 23 m pitch in a wide, long rift. A climb at one end of the rift has been bolted to a calcite choke where a small passage seen halfway up would require capping. In the opposite direction, a duck under enters a rift which chokes at both ends. Possible passage seen here proved to be solution tubes.

\section*{Reference:} Juan, 2013a
Entrance picture :
Underg
Video:
Detailed Survey : sketcl
Line Surve
On area survey
Survex file
3661: caves
San Antonio 30T 4477634801725 (Datum:
San Antonio 30T 4477634801725 (Datu
ETRS89. Accuracy code: A) Altitude 65 m
(enth. Accuracy code: A) Altitude 65 m
Length 3 m
Updated 25th January 2013

A 1 m drop into a 2 m long choked passage just up from the river edge by the road bridge. There is a 2 m long by 1 m diameter phreatic tube 4 m up and to the left of the

At the very edge of a jungle area is a small opening in a low scar which was blocked with a flake. The hole drops 3.5 m to where it gets narrow and chokes.

Reference: anon., 2012b (Easter logbook); anon., Reference: anon., 2012b (Easter logbook); anon., Entrance picture : Easter 2012 : Summer 2012 Underground pictures : Video:
Detailed Survey Line Survey On area surve
Survex file :

\section*{x}

3663: shaft
Camposdelante 307 4475454799685 (Datum: Camposdelante \(30 T 4475454799685\) (Da
ETRS89. Accuracy code: G) Altitude 394 m Length 5 m Depth 5 m Area position

A 5m deep choked shaft..
Reference: anon., 2012b (Easter logbook)
Entrance picture : yes Entrance picture : yes Video : Detailed Surve
Line Survey : Line Survey On area surv
Survex file :

X
3664: shaft
Ideopuerta 30T 4467924795830 (Datum: ETRS89 Accuracy code: G) Altitude 497m Length 50 m Depth 20 m Area position

\section*{Updated 30th April 2013}

A large, 3 m wide and 10 m long feature. A single ladder lands on a slope of debris to a horizontal slot into an alcove. Flat out passage leads off through a stal grill to a chamber with inlets and holes down. The holes take water and draught but digging is necessary to progress.

When seen at Easter 2013, it was noted that the passage undercut was on the north side of the shaft and not the south and it would appear that the whole survey is 180 degree out. The survey (and 3d file) have been out. The survey (and 3d file) have
corrected to take account of this.

Reference: anon., 2012b (Easter logbook); Corrin Reference: anon., 2012b (Easter logbook); C
Juan, 2013a; anon., 2013b (Easter logbook) Entrance picture : yes
```

Entrance picture : yes
Underground pictures

```
```

Video:
Detailed Survey : pdf

```
Line Survey
On area survey
Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.)
X
3665: shaft
Ideopuerta 30T 4469264795684 (Datum: ETRS89 Ideopuerta 30T 446926 4795684
Accuracy code: G) Altitude 515 m
Accuracy C
Depth 5 m
Area position
Updated 30th April 2013
An unexplored shaft covered with three very large blocks. Depth about 5 m ?

Reference: anon., 2012b (Easter logbook); anon.,
2013b (Easter logbook) 2013b (Easter logbook)
Entrance picture : yes
Entrance picture: yes
Underground pictures
Video :
Detailed Survey : Line Survey On area surve Survex file :
x
3666: shaft
Moncobe 30T 445653 4796302 (Datum: ETRS89. Accuracy code: A) Altitude 295 m
Length 6 m
Area position
A 6 m shaft to a choke with cattle skulls.
Reference: anon., 2012b (Easter logbook)
Entrance picture
Entrance picture : y
Underground pictures
Video: exploration Detailed Surv On area surve Survex file :

\section*{3667: cave}

\section*{Llueva 30 T 4545464798181 (Datum: ETRS89} Accuracy code: A) Altitude 129 m

Updated 16th May 2012
A large entrance about 9 m to the south and 4 m higher than the entrance to Cueva Llueva. A stream enters from above at the back of the cave, probably from the sink, site 3688. A window in from a top entrance can be approached from the ledge above.

Reference: anon., 2012b (Easter logbook)
Reference: anon., 2012 t
Entrance pictures : yes Entrance pictures : yes
Underground pictures
Video : the entrance in the Cueva Lluva depression on YouTube Detailed Survey Line Survey On area sur
Survex file :

3668: cave
3668: cave
Hornedo 30 T 4484734800416 (Datum: ETRS89. Hornedo
Accuracy code: A) Altitude 162 m Accuracy coo
Length 30 m Area positio

A well decorated through trip with a tigh squeeze in the middle

\section*{3669: caves}

Moncobe 30T 445371 4797289 (Datum: ETRS89. Moncobe 30T 4453714797289 (Da
Accuracy code: G) Altitude 215 m Length 8 m Area position Updated 15th May, 29th November, 7th
December 2012; 25th May 2014; 30th December 2012; 25th May 2014; 30th
November 2016; 24th May 2017; 7th November 2016; 24th May 2017; 7 t
January 2018 January 2018

The first description has 2 caves below sink: site 1 is 2 m long and choked; the second is a 2 m crawl which turns left to a dig.

Second description. The cave lies in the true left hand bank of a valley with few other sites of speleological interest but is directly between El Cubillón and the Cueva Verde resurgence. A strongly draughting entrance is at the base of a rock face and enters a crawl leading to a chamber where dayligh enters from a climbable shaft above. A continuing passage is blocked by a large limestone block. Beyond is a drop down into a chamber and continuation of the cave. This was investigated via the second shaft in This was investigated via the second shaft April 2017. A 3m deep climb down has the passage ending after a metre or so under third (fee-Climbable) shaft of

In November, 2012, a walk from the valley went up the true right bank to find a large depression (ED50 30T 0445664479756 altitude 280 m ). Unfortunately, although it had a large rock face at the downslope side, there were no obvious ways on or digging prospects.

Site 3669 is out of the permit area, but access has been given by the Spanish group who have the permit. When a team arrived to remove the limestone block, they were to remove the limestone block, they wer "unable to find the block or the passage" and suggested that "we were at the wrong
cave or it is now silted up". A team "came cave or it is now silted up". A tea
across" the site in October 2016

A sink, site 4539, is 5 m upstream.
Reference: anon., 2012b (Easter logbook); anon. 2012 e (autumn logbook); pers. comm.; ano 2014b (Easter logbook); anon., 2016d (autumn logbook); anon., 2017b (Easter logbook) Entrance pictures: 201
Video
Video:
Detailed Survey
Detailed Sur
Line Survey
On area surve
On area sur
Survex file

3670: cave
S Vega 30T 4527234794806 (Datum: ETRS89
Accuracy code: G) Altitude 343 m Accuracy code: G) Altitude 343 m Length 3 m Depth 1 m

\section*{A slope do}
Reference: anon., 2012b (Easter logbook)
Reference: anon., 2012
Entrance picture : yes
Underground pictures
Undergro
Detailed Survey
Line Survey:
Line Survey.
On area survey :
Survex file :
X
3671: shaft
S Vega 30T 4526024794849 (Datum: ETRS89
S Vega 30T 4526024794849 (Dat
Accuracy code: G) Altitude 350 m
Accuracy code: G) Altit
Length 4 m Depth 4 m
Length 4 m D
Area position

Updated 12th May 2018 A 2 m long rift shaft with old posts and white bag at the bottom. Descended in April 2018
it was described as an "attractive rift". It it was described as an "attractive rift
chokes 4 m down with no draught..
```

Reference: anon., 2012b (Easter logbook); anon.,
Reference: anon., 2012
Entrance picture : 2012
Entrance picture : 201
Underground pictures
Underground pictu
Detailed Surv
On area survey :
Survex file :
X
3672: shaft
S Vega 30T 452570 4794839 (Datum: ETRS89.
Accuracy code: G) Altitude 362m
Length 4m Depth 4m
Area position

```

Updated 12th May 2018
This site is fenced and has pieces of orange plastic on the fence. The small top has a white bag and a 4 m drop to another white bag. The shaft chokes 4 m down.

Reference: anon., 2012b (Easter logbook); anon., Reference: anon., 2012
2018b (Easter logbook)
Entrance picture : 201 Entrance picture : 2012
Underground pictures : Undergro
Video :
Detailed Survey
Line Survey
On area surve
Survex file :

\section*{X}

3673: shaft
3673: Shaft
S Vega 30T 4525204794865 (Datum: ETRS89. S Vega 30 T 4525204794865 (Datu
Accuracy code: G) Altitude 360 m Length 3 m Depth 2 m Area position

Updated 12th May 2018
A small hole lies just above a fence. It has A small hole lies just above a fence. It has been explored down \(2 m\) to where it chokes
or becomes too tight. There is no draught.

Reference: anon., 2012b (Easter logbook); anon.,
2018b (Easter logbook) 2018b (Easter logbook) Entrance picture : Easter 2012 Viderground pictures :
```

Detailed Survey

```
Line Survey
On area surve
Survex file
x

3674: shaft
S Vega 30T 4522234794974 (Datum: ETRS89. Accuracy code: G) Altitude 378 m
Length 15 m Depth 7 m Length 15m Depth 7 m
Area position
Updated \(6^{\text {th }}\) May 2016; 24th September
2018 2018
(An alternative grid reference is 0452227 4794971 altitude 379 m .)
A 10 m long rift that looked about 5 m deep under large blocks when first spotted. There is a small shelter 10 m down the hill. At the east end, a climb down under a boulder leads to a dig which is draughting out. A narrow side rift to the northwest goes for 15 m , dropping 7 m to a choke which is not worth digging. In 2018, it was noticed that a possible new entrance on the rift had opened up. Reference: anon., 2012b (Easter logbook); anon.,
2016 b (Easter logbook); anon., 2018c (summer 2016b (E Entrance picture : Easter 2012 : Easter 2016 : summer 2018
Underground pictures :
Video : 4416 area fly-over with this site (YouTube) Video: 4416 area fly
Detailed Survey :
Line Survey: Detailed Sur
Line Survey: On area surve
Survex file :

\section*{X}

MATIENZO UNDERGROUND - site descripitions (printed 19/02/2024 no draught..
Reference: anon., 2012b (Easter logbook)
Reference: anon., 2012
Entrance picture : yes
Underground pictures
Video :
Video:
Detailed Survey
Line Survey
On area survey
On area su
Survex file

3679: shaf

Updated \(6^{\text {th }}\) May 2016
A shaft with barbed wire around the small top. A 2 m drop to a very narrow further 2 m drop. Reference: anon., 2012b (Easter logbook); anon., 2016b (Easter logbook) Entrance picture : Easter
Underground pictures : Video: Detailed Surve
Line Survey : Line Survey On area sury
Survex file :

Updated 29th September 2012
A shaft below a tree. It was first descended A shaft below a tree. It was first descend
for one ladder length to a wedged block for one ladder length to a wedged block
where a Disto reading gave another 14 m . where a Disto reading gave another 14 m .
Three ladders reached the bottom of the Three ladders
choked shaft.

Reference: anon., 2012b (Easter logbook); anon., Reference: anon., 2012b (Easter logbook); ar
2012d (summer logbook); Corrin Juan, 2013a Entrance picture : y Underground Video : yes etailed Survey : sketch On area surve Survex file :

\section*{x}

3682: shaft
Cobadal 30T 4486694796831 (Datum: ETRS89 Accuracy code: G) Altitude 438 m Length 12 m Depth 6 m Area position

Updated 29th September 2012
A hole in the grass which is easy to fall down. This is a 6 m deep and 6 m long rift There is another shaft very close with a grassy bridge between. This is on a rift which appears to run through sites 3683 and 3694.
```

Reference: anon., 2012b (Easter logbook); anon.,
EN
Underground
Detailed Survey : sketch
Line Survey
On area survey
Survex file :
X
3683: shaft
Cobadal 30T 448655 4796816 (Datum: ETRS89,
Cobadal 30T 448655 4796816 (Da
Length 7m Depth 3m
Area position
Updated 29th September 2012

```

A small rift 3 m to the south of site 3682 by a small tree. This hole is 3 m deep, 1 m wide a small tree. This hole is 3 m deep, 1 m wide
and 4 m long. The site lies on the same rift and 4 m long. The site lie
as sites 3682 and 3694.

Reference: anon., 2012b (Easter logbook); anon., 2012d (summer logbook); Corrin Juan, 2013a Entrance picture : yes
```

Video: yes

```
Video : yes
Detailed Sur
Detailed Survey : sketch
On area surve
On area surve
Survex file :
X draught."

This site was revisited in August 2023 when a short climb down a 2 m shaft entered a sloping 3 m across chamber with a pitch at the base. This is presently blocked by small boulders which can be removed with a bar. The drop seems to be about 6 m and is probably best tackled with a ladder. (See 2023 video below.)
Reference: anon., 2012b (Easter logbook); anon., 2023c (summer logbook)
Entrance pictures: 2012 and 2023
Underground pictures :
Video : stones throw 2012 : first exploration 2023 MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 \(\begin{gathered}\text { Volume 5-page 12 }\end{gathered}\)

\section*{Detailed Sur
Line Survey}

\section*{3685: cave}

Cobadal 30T 448654 4796685 (Datum: ETRS89 Accuracy code: G) Altitude 450 m
Area position

Updated 26th September 2023
This site was found as a small, very cold and strongly draughting hole in the next shakehole down the valley from site 3684. It was partly excavated in 2012. In 2023, it was pushed through to a constriction over a large block where an enlargement can be seen. (See video below.)

Reference: anon., 2012b (Easter logbook); anon Reference. ann., 20ok)
2023c (summer logbo
Entrance pictures : 2012 and 2023 Entrance pictures: 201
Underground pictures Underground picture
Video : \(2012: 2023\)
Video : 2012: 2023
Detailed Surv
Line Survey :
On area surv
Survex file :

3686: diq
Cobadal 30T 4485614796701 (Datum: ETRS89 Cobadal \(30 T 4485614796701\) (Dat
Accuracy code: G) Altitude 446 m Area position

A small dig under a low cliff at the bottom of a shakehole. The hole seems to take water a shakehole. Th
in wet weather.

Reference: anon., 2012b (Easter logbook) Entrance picture : yes
```

Video:

```
Detailed Survey
Line Survey
On area survey
On area sur
Survex file "unpromising" dig.

Reference: anon., 2012b (Easter logbook)
```

Reference: anon.,

```
Underground pictures
Video
Detailed Survey
Line Surve
On area survey

3690: cave

A small opening in a scar leads straight onto 3 m drop to a "floor" of rotting animal remains.

Reference: anon., 2012b (Easter logbook) Reference: anon., 2012b
Entrance pictures : yes
Underground pictures :

\section*{Video :} Detailed Surve
Line Survey : Line Survey : On area sur
Survex file
x
3691: cave
Llueva 30T 4546704798148 (Datum: ETRS89 Accuracy code: G) Altitude 144 m Length 52 m
Area position

Updated 17th May, 29th September 2012
A walk-in entrance in the scar at the back \(f\) the depression. Six metres in is an artificial wall with a hole through at the left hand side. Beyond, the passage splits at a stal column. To the right, the route steps up into a hands and knees crawl, lowering to a flat-out crawl after 6 m . This goes a further 10 m or so to where the way on lowers and is blocked by mud and stal.
To the left, 6 m of walking goes to a partially walled-up window into a chamber with a sloping floor. The right hand wall has old stream deposits under calcite. At the far side is a slope up then a tight spot and an excavated section up a slope. Here the passage is seen to continue and the draughting route was pushed in the draughting route was pushed in the summer, 2012. A boar
discovered in this area.

The route is low for about 5 m and filled with roof debris. A drop down enters a smal with roof debris. A drop down enters a
chamber with a further drop where the chamber with a further drop where the
passage turns 90 degrees. The passage her passage turns 90 degrees. The pass
is low and \(20-30 \mathrm{~m}\) long. Another is low and \(20-30 \mathrm{~m}\) long. Another excavated constriction enters more low,
slightly wider ( 1.5 m ) passage. The way ahead appears to be more of the same to what looks like another drop in the floor and a bend to the right. Approximately \(60-80 \mathrm{~m}\) were pushed but not surveyed. Reference: anon., 2012b (Easter logbook); anon.,
2012d (summer logbook); Corrin Juan, 2013a Entrance pictures : yes Underground pictures: from 2012 Video : yes
Detailed Survey : pdf file Line Survey :
Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.)
x
3692: dig
Ideopuerta 30T 4463694796393 (Datum: ETRS89.
Accuracy code: A) Altitude 237 m Accuracy code: A) Altitude 237 m Length 8 m Depth 8 m
Area position
Updated 30th November 2012; 30th April 2013; 24th May 2017; 25th July 2019

Ten metres up on the east side of the valley, a small shakehole had boulders at the base and a small hole which draughts well. A number of days were spent in the autumn, 2012, removing and stacking boulders. The base of a tight rift, now down nearly 8 m , requires more work.

While the entrance was being re-
engineered and some spoil removed at
Easter 2013, there was a partial collapse. At Easter 2013, there was a partial colla
that time, the site had not been fully written-off but it was a low priority. The site written-off but it was a low priority. The
was thought to be "worth further work" was thought to be "worth furthe
when re-assessed in April 2017.

However, when further inspected in June However, when further inspected in Jun
2019, all leads appeared to close up or require too much work.

Reference: anon., 2012b (Easter logbook); anon., Reference: anon., 2012b (Easter logbook); anor
2012e (autumn logbook); anon., 2013b (Easter logbook); anon., 2017b (Easter logbook); anon.,
2019c (Whit logok) Entrance pictures : Entrance pictures : yes : Easter 2013
Underground pictures : Underground pictures :
Video : early excavation, autumn 2012 (YouTube) : Easter 2013 (YouTube)
```

Detailed Survey

```
Line Survey :
On area survey :
X

3693: cave
\[
\begin{aligned}
& \text { face on the left with boulders has a smal } \\
& \text { hole down giving access to a } 3 \mathrm{~m} \text { climb }
\end{aligned}
\] for 8 m over calcite to a small chamber.

At the top of the calcite slope at the end of the cave, a dig at floor level gained access to about 4 m of passage heading down and back towards the base of the slope. All ways back tc

At Easter 2017, the site was found to be draughting well but no further way on could be found.

Reference: anon., 2012b (Easter logbook); anon 2012e (autumn logbook); anon., 2017b (Easter logbook) 4457044796409

\section*{3697: cave}

\section*{Length 10 ,
Area positio}

On the left hand bank is an undercut of a massive limestone bed. This leads to a 10 m long cave with a crawl to a small aven with flood debris. The site ends in a tight rift with no draught detected.
```

Reference: anon., 2012b (Easter logbook)
Entrance pictures:

```
Video:
Detailed Survey :
Line Survey
Line Survey:
Survex file
x

\section*{3699: dig}

Secadura 30T 4571784801398 (Datum: ETRS89. Accuracy code: G) Altitude 206m
Area position
A dig in a field with chopped down trees surrounding it. A stream can be heard not far below but rocks sound as if they land on plastic. There is no sign of water resurging in the valley below.

Reference: anon., 2012b (Easter logbook) Reference: anon., 2012b
Entrance pictures: yes Underground pictures Video:
Detailed Survey Line Survey On area surve
Survex file :

X
3700: resurgence \& sink
La Secada 30T 4524674797824 (Datum: ETRS89, Accuracy code: A) Altitude 175 m Area position

\section*{Updated 29th September 2012}

A resurgence and sink on the hillside above A resurgence and sink on the hillside abo
the Carcavueso track. Water sinks in soil the Carcavueso track. Water sinks in originally not seen but was found as a tiny originally not seen but was found as a tiny pool against a clace - the next one dowr from the cliff that contains sites 0708 and 0709.

Reference: anon., 2012b (Easter logbook); anon., Reference: anon., 2012b
2012d (summer logbook) Entrance pictures Underground pictures :
Dideo:
Detailed Sur
On area surve
Survex file :
x

3701: dig
Llueva 30T 4546984798010 (Datum: ETRS89. Accuracy code: G) Altitude 168 m
Depth 4m
Area position
A small hole at the top of a slot in a rock A small hole at the top of a slot in a rock
face leads onto a 3-4m drop. There may be passable passage at the bottom and there is a good echo. The entry will need enlarging.
```

Reference: anon., 2012b (Easter logbook)

```
Entrance pictures : yes
Underground pictures:
Video:
Detailed Survey
Line Survey
On area surve
\(x\)
3702: diq
\(\frac{\text { 3702: dig }}{\text { Riaño 30T 451374 } 4799623 \text { (Datum: ETRS89 }}\)
Riaño 30T 4513744799623 (Datu
Accuracy code: A) Altitude 194 m
Accuracy co
Length 2 m
Length 2 m
Area position
Updated 7th January 2023

The entrance is beneath a small rock outcrop at the top of the gulley nearly straight up the bank from Fuente de la Cuvía. A flatout crawl lowers to a dig after 2 m .
Reference: anon., 2012b (Easter logbook); anon.,
2022e (Christmas logbook) 2022e (Christmas logbook)

Entrance pictures :
nderground pictures
Video :
```

Video:

```
Line Survey :
On area surve
Survex file :
x

3703: cave San Antonio 30T 4455894801131 (Datum:
ETRS89. Accuracy code: A) Altitude 96 m ETRS89. Accuracy code: A) Altitude 96 m Length 20 m
\(\qquad\)
descriptions (printed 19002 2002
Volume 5 - page 133 September 2014

A draughting dig in the shakehole adjacent to the depression with the black pond at the architect's house. This was pond at the architect's house. This was opened up "to a maze-like situation with a passages choking"
The entrance was found to have slumped in 2014 and will need a team to clear it.
Reference: anon., 2012b (Easter logbook); anon 2d (sum 2012d (summer logbook), Corr) Entrance pictures : yes Underground pictures
Video
Detailed Survey
Line Surve
On area survey
On area sur
Survex file

\section*{3704: sink}

La Secada 30T 4528834797917 (Datum: ETRS8 La Secada 30T 4528834797917

\section*{Area position}

\section*{A choked sink with no draught.}

Reference: anon., 2012b (Easter logbook) Entrance pictures : Underground pictures
Video :
Detailed Survey Line Survey On area sur On area sur
Survex file

\section*{3705: sink}

La Secada 30T 4528904797915 (Datum: ETRS8 Accuracy code: G) Altitude 175m Area position

A choked sink with no draught.
```

Reference: anon., 2012b (Easter logbook

```
Reference: anon., 2012
Entrance pictures : yes
Underground pictures :
Video :
Detailed Survey
Line Survey :
On area survey
Survex file

\section*{3706: sink}

La Secada 30T 4533484798369 (Datum: ETRS89 Accuracy code: G) Altitude 286 m

\section*{Accuracy code
Area position}

An active, cobble-filled stream sink.
Reference: anon., 2012b (Easter logbook) Entrance pictures: yes
Underground pictur
Video :
Video :
Detailed Survey
Line Survey :
On area survey
On area sur
Survex file

\section*{3707: dig}

La Secada 30T 4529754798232 (Datum: ETRS8 Accuracy code: G) Altitude 200 m
Accuracy code
Area position
A shakehole filled with rocks and leaves.
Reference: anon., 2012b (Easter logbook)

3708: dig

Reference: anon., 2012b (Easter logbook)
Entrance pictures: yes Entrance pictures : yes
Underground pictures : Video: Detailed Survey Line Survey On area surve
Survex file :

X
3710: dig
N Vega 30T 4503924795987 (Datum: ETRS89. Accuracy code: G) Altitude 287 m Area position

A hole on the of the track where a bodysized void can be seen

Reference: anon., 2012b (Easter logbook) Entrance pictures : yes Video:
Detailed Survey : Line Survey : On area surve Survex file :
x

\section*{3711: resurgence}

Llueva 30T 4547094798085 (Datum: ETRS89 Accuracy code: G) Altitude 155 m Area position

A line of tiny resurgences at the base of a small scar.

Reference: anon., 2012b (Easter logbook) Entrance pictures : ye Underground pictures Video: Detailed Survey
Line Survey Line Survey On area sury
Survex file :

X
3712: dig
La Colina 30T 4532204797087 (Datum: ETRS89. Accuracy code: G) Altitude 361m Area position

Found during a fruitless search for sites 1023, 1024 and 1025. A small hole in trees needs digging out to access a small pitch.

Reference: anon., 2012d (summer logbook) Entrance pictures: yes Video :
Detailed Survey Line Survey On area surve Survex file

3713: shaft
Muela 30T 4551594796258 (Datum: ETRS89. Accuracy code: G) Altitude 665 m Length 4 m Depth 4 m
Area position
A \(3 \times 1 \mathrm{~m}\) shaft top to a \(3-4 \mathrm{~m}\) deep, blind pot.
Reference: anon., 2012d (summer logbook) Entrance pictures
```

Underground pictu

```
Video :
Detailed Survey
On area surve
Survex file :
X

3714: shaft
La Gatuna 30T 449461 4798962 (Datum: ETRS89. Accuracy code: G) Altitude 268 m Length 20 m Depth 12 m Area position

A promising-looking hole against a limestone outcrop with a sandstone cap. The shaft is 8 m deep landing on an earth floor with numerous cattle bones and soles from a pair of hob-nailed boots. The hole chokes at the base of a slope down and at the bottom of a 2 m climb down against a block. No draught on a muggy day.

Reference: anon., 2012d (summer logbook)
Reference: anon., 2012d
Entrance pictures: yes
Entrance pictures: yes
Underground pictures: yes

\section*{Video:}

Detailed Survey : sketch
Line Survey: Line Survey On area survey :
Survex file : Survex file : Accuracy code: G) Altitude 282 m Area position

A small hole where "a stick goes in a long way".

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\section*{Reference: anon., 2012d (summer logbook)
Entrance nictures. ves Entrance pictures : yes
Underground pictures :} Video Detailed Survey Line Survey On area sur
Survex file : Surve

\section*{3716: shaft}

La Gatuna 30T 4494614798962 (Datum: ETRS89. Accuracy code: G) Altitude 268 m Length 10 m Depth 5 m Area position

A very small entrance was enlarged to give a squeeze through to the top of a chamber with a 5 m drop to the choked floor. All the walls and roof are covered with old, friable walls and roof are covered with old, friable at the bottom. When explored, there was a at the bottom. When explored, there was a good draught to start with bat and no draught at all on
possible way on.

Reference: anon., 2012d (summer logbook) Entrance pictures : yes Underground picture Video :
Detailed Survey : sketch Line Survey
On area survey
```

Survex file

```

\section*{3717: hole}

La Gatuna 30T 4494784798957 (Datum: ETRS89 Accuracy code: G) Altitude 267 m
Area position

There are three ways on from the

To the left a descending phreatic tube closes choke with very little promise.

Below and to the right is the excavated entry to a 5 m deep by 2 m diameter chamber with clean-washed walls. An excavated squeeze down ends in cross rifts with a slight draught but no way on.
"If you're passing, go and experience the the draught - very impressive."

Reference: anon., 2012d (summer logbook); Corrin Juan, 2013a Entrance pictures: yes
Underground pictures : yes Underg Video: Detailed Sur
Line Survey Line Survey: Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.

\section*{x}

3720: dig
Hornedo 30T 4487444800663 (Datum: ETRS89. Accuracy code: G) Altitude 119 m
Area position

Updated 21st May 2023
A draughting dig which needs a boulder removing to get in - but it may be supporting the roof 2015; 17th May 2019

The western entrance (Lenny's 1) (GPS'd and surface surveyed, above) was found as n open and draughting hole sloping into a chamber. The route led into a narrow draughting rift after excavating a sand blockage. The rift was enlarged and allowed exploration to proceed.

After a short crawl, a chamber is reached with a hole down on the left leading into an enlarging passage to a junction with a major tunnel going off in both directions.

To the east, the passage (up to 10 m wide) slopes down to a tiny stream that presumably feeds La Bodega, passes a route heading north ending at a boulder choke with tree roots and spiders then closes dowr at a boulder choke with further possibilities at a boulder choke with further possibilities
in the roof - possibilities exist here both to in the roof - possibilities exist here both to
the east and the south. On the eastern side the east and the south. On the east
and after leaving the main passage, and after leaving the main passage,
Lugger's Lair has been dug through to a 5 m Lugger's Lair has been dug through to a 5m way out. A crawl through into passage on way out. A crawl through into passage er leads to the second, easier entrance (Lenny's 2). Just where the main passage is left behind, a bone embedded in calcite is encountered in a small passage to the west.

To the west, the tunnel passes a phreatic rift on the left (with a possible climb) then closes in just after skirting a pit in the floor. Straight on, to the north, is a climb up to a gap between a rock wall on the left and boulders on the right which might deserve a bit of snappering. The way on is down a 3 m drop (currently tackled with a tatty ladder) to a slope up to a choke. A hole through at the top leads into the choke and a dodgy dig. On the left, before the choke, is The Grunt, an excavated crawl into another bouldery area where a strong, cold draught bouldery area where a strong, cold draught
coming down through a hole in the boulder coming down through a hole in the bould
choke is the obvious though difficult dig.

The chokes at both ends of the cave were looked at again in August 2013 and a choke looked at again in August 2013 and a choke
just before the p4 at the western end of the just before the p4 at the western end of the
cave was capped, but may require snappers. cave was capped, but may require snapp
There is little or no draught at that point. There is little or no draught at that point.
The western choke was snappered in 2015 The western choke was snappered in 2015
but the 2 m extension shows passage that is but the 2 m extension shows
too narrow with no draught.

In August 2015, a rift was climbed into on the N wall which narrowed down

Biological sampling was untaken as part of a
research proiect at Easter 2014. Over Easter 2018, the Matienzo Karst Entomology Project (led by Tom Thompson) followed up a previous study by collecting bugs, spot sampling and setting pitfall traps in a sampling and setting pitfall traps in a number of sites under a Cantabria-wide permit. The Entomology Project carried out
some work in this cave. Traps were some work in this cave. Traps were retrieved and spot sampling was carried out over Easter 2019. Photos were also taken.

The current survey shows the unsurveyed sections in green and indicates the leads to look at. In total, the
cave will be over 500 m long. There appeared to be cave will be over 500 m long. There appeared
an issue with either the GPS readings for the entrances, and / or the GPS for La Bodega and / or the survey but this was cleared up with a surface survey and more GPS reading at Christmas 2012.

Reference: anon., 2012d (summer logbook); anon.
2012 f (Christmas logbook); Corrin Juan, 2013a; 2012 f (Christmas logbook); Corrin Juan, 2013 a anon., 2013b (Easter logbook); anon., 2013d (summer logbook); anon., 2014c (summer logbook); (Easter logbook)
(Easter logbook) Entrance pictures : summer 2012 : Easter 2013 Entrance pictures : summer 2012 : Easter 2013
Underground pictures : December 2012 : summer 2012 : Easter 2013 : summer 2014 : summer 2015 : Easter 2018 : Easter 2019 Video : Christmas Day 2012 (YouTube) draughting entrance, autumn 2012 (YouTube) : Dmer 2012 (YouTube) Detailed Survey : pdf after summer 2012: pdf after December 2012 and slight ar
2013 : pdf with amendment, 2015 Line Survey: On area survey Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.) on area survey (Amended magnetic declination December 2013 to align with Eur79 grid and Passage direction rose diagram: 1/7/2018

X
3722: cave
Cubija 30T 4501934796643 (Datum: ETRS89. Accuracy code: G) Altitude 252 m Length 15 m Depth 4 m Area position

Updated 9th October 2013
An excavated hole in the layby. A p4 drops into a \(3 \times 3 \mathrm{~m}\) chamber with a crawl throug a couple more enlargements to where there no obvious way on. The hole is now capped with a boulder

Reference: anon., 2012d (summer logbook); anon., 2013d (summer logbook) Entrance picture : yes
Underground pictures Video : Opening up the hole (YouTube) Detailed Survey Line Survey On area surv
Survex file
of the layby.
Reference: anon., 2012d (summer logbook); anon.,
2013d (summer logbook) 2013d (summer logbook)
Entrance picture Entrance picture : y
Video :
Detailed Survey
Line Survey
On area survey
On area sur
Survex file

3724: cave
Muela 30T 4543654796353 (Datum: ETRS89 Accuracy code: G) Altitude 778m

\section*{Length 4 m D
Area position}

A small hole descends in a rift to a dig which is "not worth digging"

Reference: anon., 2012d (summer logbook) Entrance pictures : yes
Underg
Video

Detailed Survey : sketch Detailed Su
Line Surve, On area surv

Reference: anon., 2012d (summer logbook) Entrance pictures: yes
Underground pictures Undergr
Video : Video:
Detailed Survey Detailed Sur
Line Survey Line Survey : On area surve
Survex file :

X
3726: cave
Mullir 30T 4558044796371 (Datum: ETRS89.
Accuracy code: G) Altitude 482 m
Length 4 m
Area position
A small cave which goes in about 4 m to a choke.
[The position above is the average of three readings which ranged from .. 799 to .. 807 in the easting and . 358 to .. 395 in the northing, adjusted to ETRS 89

Reference: anon., 2012d (summer logbook) Entrance pictures : ye Underground pictures Video: Detailed Surve Line Survey Survex file : X
3727: depression
Riaño 30T 4525814799645 (Datum: ETRS89. Accuracy code: G) Altitude 245 m Area position

A depression which may or may not be site 1789.

Reference: anon., 2012d (summer logbook) Reference: anon., 2012d
Entrance pictures: yes Entrance pictures : yes
Underground pictures

\section*{Video:}
```

Detailed S

``` Line Survey On area survey Survex file :
X
3728: dig
Secadura 30T 4554454799405 (Datum: ETRS89
Secadura 30T 4554454799405 (
Accuracy code: G) Altitude 59 m

A draughtless rock shelter which looks like an old passage completely filled with earth. [The grid reference may be wrong and the site lie up
the hill.]
Reference: anon., 2012d (summer logbook)
Entrance pictures: yes
Undergro
Detailed Survey :
Line Survey
On area surve
Survex file :
x

3729: cave
Secadura 30T 455350 4799212 (Datum: ETRS89. Accuracy code: G) Altitude 135 m
Length 36 m
Length 36 m

\section*{Area positio}

Updated 1st May 2013
A spring line has a 10 m long cave which was pushed, past a constriction, to another stal constriction 36 m in which blocks progress. Beyond this point the passage appears to open out but there is 3 ft of water and no room to turn around.

Reference: anon., 2012d (summer logbook); anon. 2013b (Easter logbook) Entrance picture : yes Underground picture : yes
Video Video :
Detailed Survey
Line Survey
Line Survey
On area surve
Survex file :
X
3730: sink
Riaño 30T 452592 4799587 (Datum: ETRS89 Accuracy code: G) Altitude 244m Area position

A sink which could be dug.


A collapse with a fence around it.
Reference: anon., 2012d (summer logbook)
Entrance picture :
Undergr
Video :
Detailed Surve
Line Survey
On area survey
Survex file
3732: cave
Secadura 30T 456515 4800723 (Datum: ETRS89
Secadura 30T 456515 4800723
Accuracy cod
Area position
A cave entrance in a field next to
depression. There is a shelter over the
depression. There is a shelter over the
entrance and sticks blocking the way on.
There is little or no draught.
Reference: anon., 2012d (summer logbook)
Entrance picture :
Entrance picture :
Underground picture
Video:
Detailed Survey
Line Survey
Line Survey
On area sur
On area sur
Survex file
3733: hole
Llueva 30 T 4559764796565 (Datum: ETRS89
Accuracy code: G) Altitude 349 m
Area position
A draughting hole discovered while looking
for Joe's Lost Cave.
Reference: anon., 2012d (summer logbook)
Reference: anon.
Entrance picture
Underground picture
Video :
Video :
Detailed Survey
Line Survey
On area survey
Survex file

\section*{3734: cave}

Llueva 30T 4550764797946 (Datum: ETRS89. Llueva 30T 4550764797946 (Da Accuracy code: G) Altit
Length 3 m Depth 1 m Area position

A wet weather channel ends in a smal depression. A small opening leads down a depression. A small opening leads down a
short step to 1.5 m of crawling to where it short step to 1
gets too tight.

Reference: anon., 2012d (summer logbook) Entrance picture : yes Underground picture
Video :
 Line Survey
On area survey Survex file

3735: shaft
Moncobe 30T 4454254796908 (Datum: ETRS89. Accuracy code: G) Altitude 303 m Area position

This is a choked shaft full of farm rubbish Depth?
```

Reference: anon., 2012d (summer logbook

```
Entrance picture : yes
Underground picture :
Video :
Detailed Survey
Line Survey
On area survey
Survex file

3736: shaf
Hornedo 30T 4487604800837 (Datum: ETRS89, Hornedo 30 T 4487604800837 (D
Accuracy code: G) Altitude 115 m Length 10 m Depth 5 m Area position

Updated 21st May 2023
[Old grid reference: 30T 4487584800862 ] Entrance 1 is a 3.5 m slide down over a block to a \(6 \times 2 \mathrm{~m}\) chamber with a vertical mud to a \(6 \times 2 \mathrm{~m}\) chamber with a vertical mud bank at the northern end. This leads to a high window and day light from the secon entrance. Nearby is the second hole, 3 n diameter, with a 5 m pitch landing in roughly circular chamber of boulders. The only way out is down through a window to below entrance 1

The site was given its correct grid reference in April 2023 when it was also found that the main hole was covered by boulders and bulldozed in.

\section*{Deale sur}

\section*{3737: diq}

Hornedo 30T 4489934800701 (Datum: ETRS89. Accuracy code: G) Altitude 112 m Area position

A dig in broad leaf woodland about 10 minutes in from the field edge. This looks like a long collapsed tunnel with big sandstone blocks. It is a cold site, and draughts. "Dug for no other reason than it was good exercise.

Reference: anon., 2012d (summer logbook) Reference: anon., 2012
Entrance picture : yes
```

Underground picture

```
Video:
Detailed Survey
Line Survey
On area surve
Survex file
X
3738: shaft

Length 5 m Depth 5 m
Area position

Nine metres to the west of site 3737, over a col, is a hole in a bank and depression. A \(5 r\) climb down reaches a small passage which climb down reaches a small passage which
becomes too tight. There is a slight outward becomes
draught.

Reference: anon., 2012d (summer logbook) Entrance picture
```

Underground pictur

```
Video :
Video :
Detailed Survey
Line Survey
On area survey
On area sury
x
3739: dig
Coterón las Llanas 30T 4508144798456 (Datum:
Coterón las Llanas 30T 4508144798456 (D
ETRS89. Accuracy code: G) Altitude 515 m
Length 2 m
Area position

This site lies in a 6 m diameter shakehole on the west side at the head of the valley, north of the road. The cave goes 1.5 m to a choke (dig) with no draught. Twenty metres below this spot is site 3740 .

Reference: anon., 2012d (summer logbook) Reference: anon.,
Entrance picture Underground picture Video:
Detailed Survey : Line Survey On area surve
Survex file :

X
3740: diq
3740: dig
Coterón las Llanas 30T 4507984798461 (Datum: Coterón las Llanas 30T 4507984798461 (D
ETRS89. Accuracy code: G) Altitude 510 m Length 2 m Depth 2 m Area position

Twenty metres below site 3739. A small 1.5 m drop to a choke.

Reference: anon., 2012d (summer logbook) Entrance picture :
Underground pictu Video: Detailed Survey : Line Survey On area surve Survex file

X
3741: dig
Secadura 30T 4551924799452 (Datum: ETRS89. Accuracy code: G) Altitude 82 m Length 5 m Depth 5 m Area position

Updated 28th January, 1st May 2013
The dig is forty to fifty metres in a straight line beyond the western boulder choke in Lenny's Cave. The hole was excavated dow against a solid wall to a narrow, open slot over Christmas 2012 and the New Year. At times it has draughted reasonably well especially considering that there was little or no draught in Lenny's Cave at around the same time. Debris falling down keeps blocking off the draught.
Further excavation occured over the Easter 2013 period. More details?

Reference: anon., 2012 f (Christmas logbook) Reference: anon., 2012
Entrance picture : yes
Underground picture : Underground pictur
Video : Video. Detailed Surve
Line Survey : Line Survey
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On area survey :
Survex file : yes (Amended magnetic declination Survex file : yes (Amended magnetic declin
December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014. ) on area surface survey (Amended magnetic ded and coc
2014.)

3742: resurgence Secadura 30T 4551624799597 (Datum: ETRS89 Accuracy code: G) Altitude 59m Area position

Updated 1st May 2013
The resurgence, presumably, for caves higher up the valley, eg Cueva de Suviejo. higher up the valley, eg Cueva de Suviejo.
The overflow is - again presumably - Cueva The overflow is - again presumably - Cuev
del Sifón Claro, 80 m further up the valley del Sifon Claro, \(80 r\)
and now collapsed.

Reference: card; anon., 2013b (Easter logbook) Entrance picture : yes Underc
Video Video :
Detaile Line Survey. On area survey Survex file

\section*{3743: cave}

Secadura 30T 4558154799831 (Datum: ETRS89 Accuracy code: G) Altitude 57m
Length 8 m Depth 4 m
Area positio
A 3.5 m descent below a sandstone outcro into a \(3 \times 4 \mathrm{~m}\) chamber with a silt floor and no sign of any outlet passage

Reference: anon., 2012d (summer logbook) Entrance picture : yes
```

Underground picture

```
Video
Detailed Survey
Detailed Su
Line Survey
Line Survey
Survex file :

3744: cave Riaño 30 T 4526744799379 (Dat Accuracy cod
Area position

Updated 9th October 2013
A draughting dig under a scar by an ash tree next to a wire fence and the edge of the wood. Several blocks need pulling out to get wood. Several blocks need pulling out
into a low crawl. In 2013 , the site was described as "a long term proposition to get to a caveable place".

Reference: anon., 2012d (summer logbook); anon., 2013d (summer logbook) Entrance pictures : 2012 and 2013 Underground picture

\section*{Video :}

Detailed Survey
On area survey Survex file

3745: shaf
Riaño 30 T 4525914799366 (Datum: ETRS89. Accuracy code: G) Altitude 265 m
Length 3 m Depth 3 m
Area position
Updated 9th October 2013
A small entrance under a rock outcrop had the top enlarged to access a choked 2.5 m drop.

Reference: anon., 2012d (summer logbook); anon. 2013d (summer logbook)
x

\section*{}

Updated 30th November 2012; 7th January 2018

This site was spotted when movement in the vegetation was observed caused by a strong draught (on a very hot day). A small hole has been enlarged to open up a \(2 m\) drop. A right turn ends at a squeeze over a block calcited into the floor.
This was reinvestigated in October 2012 when a tight squeeze over the boulder was pushed but no obvious way on was seen.

Reference: anon., 2012d (summer logbook); anon.
2012e (autumn logbook) 2012e (autumn logbook)
Entrance pictures : 2012 set 1:2012 set 2 Entrance pictures : 2012 set 1
Underground pictures : 2012 Video: Detailed Surve
Line Survey : Line Survey : On area sur
Survex file
x
3748: Xsara, Torca del
Llueva 30T 4548474798118 (Datum: ETRS89 Accuracy code: A) Altitude 116 m Length 6 m Depth 6 m Area position

A 6 m deep hole by the road side explored by A 6 m deep hole by the
ADEMCO. Marked AD-1. ADEMCO. Marked AD-1. [The given grid ref of ED50 045494
the entrance away from the road.]

Reference: ADEMCO, 2012 pp9-10
Entrance picture : ADEMCO 2012 Entrance picture : ADEMCO, 2012 p9 Video :
Detailed Survey : from ADEMCO, 2012 Line Survey On area surv
Survex file :
x
3749: Lápida, Torca de la
Llueva 30T 4540794798744 (Datum: ETRS89. Accuracy code: A) Altitude 433 m Length 9 m Depth 9 m

\section*{Area position}

A 9 m deep hole by the track side explored by ADEMCO. Marked AD-5. [The given grid ref of ED50 04541974798961 seems
quite close.] quite close.]
```

Reference: ADEMCO, 2012 pp15-16
Entrance picture : ADEMCO, 2012 p15
Underground picture :
Video:
Detailed Survey : from ADEMCO, 2012
Line Survey
On area survey
Survex file :
x
3750: Jabalí, Cueva del
Secadura 30T 4541614799678 (Datum: ETRS89.
Accuracy code: A) Altitude 222m
Length 24m Depth 10m
Area position
Updated 1st May 2013; 24th June 2022

```

This site has been found, opened up, explored and surveyed by ADEMCO in April 2011. Marked AD-6.

Possibly best approached from the stream bed going up past Torca del Rayo de Sol. The stream splits and on the left bank of the left hand valley (looking up) is an area of prominences. Just beyond is a doline on the uphill left and the small, triangular entrance. A narrow, steeply descending passage enlarges. Water enters and sinks in the cave. The best hope for extension appears to be an impenetrable wet crawl with a strong draught.
This was investigated at Easter 2013 when there was no apparent draught and the very ow crawl was seen to be totally flooded with a lot of washed-in debris from a rubble and clay-floored aven. It would require an effort but may be worthwhile.
\begin{tabular}{l} 
Reference: ADEMCO, 2012 pp17-18; anon., 2013b \\
(Easter logbook) \\
Entrance picture : ADEMCO, 2012 p15 \\
Underground picture : ADEMCO, 2012 p15 \\
Video : \\
Detailed Survey : from ADEMCO, 2012 \\
Line Survey: \\
On area survey : \\
Survex file : Reconstructed from the ADEMCO \\
survey \\
X \\
3751: Cave (AD-15) \\
\hline Llueva 30T 455926 4797356 (Datum: ETRS89. \\
Accuracy code: G) Altitude 212m \\
\hline MATIENZO UNDERGROUND- site descriptions (printed 19902/2024) \\
\hline
\end{tabular}

This site has been found, opened up, explored and surveyed by ADEMCO in March and April 2011. Marked AD-15. A small entrance to a small descending cave which turns to the left and chokes.

Reference: ADEMCO, 2012 pp31-32
Entrance picture : ADEMCO, 2012 p3
Entrance picture : ADEI Video :
Detailed Survey : from ADEMCO, 2012 Line Survey : On area surv
```

Survex file

```

\section*{3752: digs-3}

Ideopuerta 30T 4462634795983 (Datum: ETRS89 Accuracy code: G) Altitude 254 m

\section*{Length 3 m
Area positio}

Updated 9th October 2013; 5th October Updated 9th October 20.
2015; 7th January 2018
Three digs all within 10 m of each other at streambed level. All have been dug for about \(3 m\) in length but end in large hanging death boulders with no sign of solid walls or roof. All have a very strong draft at times. (An alternative easting is ETRS89 0446293). A smoke test from here to cavers in El Cubillón was aborted in 2013 when the site was found draughting out.

Reference: anon., 2012e (autumn logbook); anon. Reference: anon., 2012e (autumn logbook);
2013b (Easter logbook); anon., 2013d (summe logbook); anon., 2015c (summer logbook) Entrance pictures : 2012 and 20 Underground pictures : 2015 Video
Detailed Survey Line Surve
On area su
```

On area sur
Survex file

```

\section*{3753: shaf}

Ideopuerta 30T 4457754795360 (Datum: ETRS89. Accuracy code: G) Altitude 436 m Length 2 m Depth 2 m
```

Area positio

```
clearing.

Reference: anon., 2012e (autumn logbook) Reference: anct, : yes
Entrance picture
Underground picture :
Video :
Detailed Survey :
Letailed Surv:
On area survey
Survex file

\section*{3754: cave}

Moncobe 30T 446416 4797071 (Datum: ETRS89. Accuracy code: G) Altitude 205 m Length 4m
Area position
A walled cave. Two entrances at the base of a buttress, one partially walled. Each is approximately 2 m long and they become small.

Reference: anon., 2012e (autumn logbook) Entrance picture : ye: Underground picture Video:
 Detailed Sur
Line Survey Line Survey Survex file

\section*{3755: shaf}

Moncobe 30T 4464444797082 (Datum: ETRS89. Accuracy code: G) Altitude 195 m Length 3 m Depth 3 m Area position

Updated 17th November 2021; 21st May 2022; 26th September 2023

A 3 m deep, mud choked rift. The site could not be found in September 2021 after bush wacking through head-height brambles and ferns. It is possible the GPS'd position is wrong or logging activity has filled it in. It was also not found in April 2022 or August 2023.

Reference: anon., 2012e (autumn logbook); anon., 2021d (autumn logbook); anon., 2022b (Easter 2021d (autumn logbook); anon., 2022b (Ea
logbook); anon., 2023c (summer logbook) Entrance picture : ye
Video :
Video:
Detailed Survey
Line Survey :
On area survey
On area sur
Survex file

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\section*{3756: cave}

Moncobe 30T 446304 4797098 (Datum: ETRS89. Accuracy code: G) Altitude 243 m
Length 10 m

A walled up cave under a small outcrop just bove a high fence Low crawl has been dug for 2 m to a left bend then 5 m of more excavated passage t a choke. A 0.3 m solution tube on right at the end has good outward draught and there is a possible dig in the floor at the end of the cave.

Reference: anon., 2012e (autumn logbook) Entrance picture, : yes
Underground picture :
Video :
```

Detailed S

``` Line Survey : On area survey Survex file :

X
3757: cave
Ideopuerta 30T 4465294796361 (Datum: ETRS89 Ideopuerta 30T 4465294796361 Length 5 m Depth 5 m Length 5m De
Area position

The entrance lies under a small outcrop. A 5 m deep sloping descent with solid roof 5 m deep sloping descent with solid roof roof meets the floor. There is no obvious roof mee way or This cave should be directly above the aven over the first underground pitch in site 3420.

Reference: anon., 2012e (autumn logbook) Entrance picture : yes Underground picture Video :
 Detailed Surv On area surve Survex file : X
3758: cave Moncobe 30T 4462624796666 (Datum: ETRS89 Accuracy code: G) Altitude 238 m Length 21 m Depth 16 m

\section*{Area position}

A hole in the hillside 4 m below a broken wall. The entrance had a wasps' nest when the site was discovered. The passage, at right angles to the hillside, descends for 12 m ( 8 m vertical ) but the roof remains at entrance level, making the cave a high rift no more than 1 m wide at its widest. The general direction is 013 degrees. At the general direction is 013 degrees. At the 9 bottom of the slope a traverse across for 9 m leads to a blocked aven. Below the trat the rift tightens but at one point it is possible to descend for 6 m to a gravel floor Be wary of the wasps, they 'will and do sting.

Reference: anon., 2012e (autumn logbook) Entrance picture: yes
Underground picture Video : Preparing to remove wasps' nest (YouTube) Detailed Surv
Line Survey: Line Survey On area sur
Survex file

X

\section*{3759: shaft}

Las Calzadillas 30T 4475844795410 (Datum: ETRS89. Accuracy code: G) Altitude 420 m Length 28 m Depth 8 m Area position

Updated 23rd May 2015
An 8 m deep slip fault, approximately 20 m in length, with a narrow, draughting slot at the lowest point. See site 3760

Reference: anon., 2013d (summer logbook); anon 2015b (Easter logbook) Entrance picture: yes
```

Video :

```
Detailed Surve
Line Survey :
On area surve
On area sur
Survex file :
x
3760: shaft
Las Calzadillas 30 T 4475964795411 (Datum:
ETRS89. Accuracy code: G) Altitude 410 m
Length 25 m Depth 13 m
Area position

This is a similar feature to site 3759 , but does not appear to connect. The rift is 12 m long and ends in a choke

Reference: anon., 2013d (summer logbook)
Entrance picture: yes Entrance picture: yes
Underground pictures
Video :
Detailed Survey
Line Survey
On area survey
Survex file

\section*{3762: shaf}

S Vega 30T 4518994794331 (Datum: ETRS89 Accuracy code: G) Altitude 592 m

\section*{Length 11 m
Area position}

Updated 26th September 2014; 26th September 2023

This is situated at the edge of the outcrops / pasture line about 100-120m NW and downhill of Torca de Beralta. A 2 m deep hole has a large rock at the back. At the base a rift has a scree slope where rocks rumble on down for 3-4 seconds. An alternative GPS reading is 30T 0451907 4794326.

This hole was opened up and descended, August 2023. A narrow shaft chokes 11 m August 2023. A narrow shaft chokes 11 down with a wet weather soak-away

\section*{3763: cave}

Cubija 30T 4496444796765 (Datum: ETRS89. Accuracy code: G) Altitude 432 m Area position

A small cave with fox shit in the entrance and a small draught. The \(0.8 \times 0.3\) cross and a small draught. The \(0.8 \times 0.3\) cross
section passage goes for 2.4 m to a dig. Not a good prospect.

Reference: anon., 2012e (autumn logbook) Entrance picture : ye Underground picture
Video :
Detailed Survey Line Survey Line Survey
On area sur Survex file

\section*{3765: dig}

Cubija 30T 4500764797149 (Datum: ETRS89. Cubija 30T 4500764797149 (Dat
Accuracy code: G) Altitude 335 m Accuracy code: G) Altit
Length 3 m Depth 3 m Area position

The entrance is a rift above the fork in the road. Three metres down is a soil and rock dig which is not a good prospect.

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Reference: anon., 2012e (autumn logbook)
Entrance nicture. ves Undergro picture : yes Underground picture : Video: Detailed Surve Line Survey On area surve
Survex file :

X
3766: cave
Cubija 30T 450021 4797032 (Datum: ETRS89 Accuracy code: G) Altitude 318 m Length 4 m Area position

A "hole in the wall" at the top of a collapse area behind a water tank. Two metres up a short climb, a small cave closes in

Reference: anon., 2012e (autumn logbook)
Reference: anon., 2012
Entrance picture : yes
Entrance picture : yes
Underground picture :
Video : Climbing down from entrance (YouTube) Detailed Survey Line Survey On area survey Survex file :

\section*{Area position}

A small hole with an unusual calcite band in rock next to it. The hole has been dug to a dead end.

Reference: anon., 2012e (autumn logbook) Entrance picture : yes Underground picture Video : Investigating the hole (YouTube) Line Survey: One Survey Survex file : draught moves a leaf but it is a longish dig.

Reference: anon., 2012e (autumn logbook) Entrance picture : yes

\section*{Area position}

This site is "some 22 m south of 3768 on same field edge". The GPS reading above does not agree, putting it to the NW. A dig under a large rock with a hawthorn tree growing out.

Reference: anon., 2012e (autumn logbook) Entrance picture : Underground picture east along the track as there are small
draughting holes in soil / rock. Needs draughtil

Reference: anon., 2012e (autumn logbook) Entrance picture
```

Underground pictu

```
Video:
Detailed Survey :
Line Survey
On area surv
On area sury
Survex file :
x
shakehole. Work was carried out in Apri 2016 when large quantities of rock were access. The draught is coming from small gaps between blocks. The site now has a paved area below the entrance

Reference: anon., 2012e (autumn logbook); anon., 2016b (Easter logbook

\section*{3775: shaft}

\section*{Piluca 30 T 4514424793931 (Datum: ETRS89,} Accuracy code: G) Altitude 629 m Length 3 m Depth 3 m Area position

Reference: anon., 2012e (autumn logbook) pictures
Underground pict
Video:
Detailed Survey
Line Survey
On area survey
Survex file

\section*{3776: dig}

Secadura 30T 4552914799417 (Datum: ETRS89 Accuracy code: G) Altitude 75m
```

Accuracy code:

```

A small hole with a slight, outward draught
Reference: anon., 2012e (autumn logbook)
Underground p
Video
Detailed Survey
Line Surve
On area survey
Survex file

37

\section*{3777: Dos Burros} concerted digging.

Reference: anon., 2012a (autumn logbook); anon. 2013b (Easter logbook) Entrance pictures : yes
Underground picture : Video : Hilti capping (YouTube) Detailed Survey : pdf, Easter 2013 Line Survey: On area survey
Survex file : yes (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.) X
3778: cave
Secadura 30T 4560934798511 (Datum: ETRS89. Accuracy code: G) Altitude 295m Length 10 m Depth 8 m Area position

A crawl to a drop, first descended in
December 2012. A \(7-8 \mathrm{~m}\) decorated pitch December 2012. A \(7-8 \mathrm{~m}\) decorated pitch drops down to a muddy floor. A 4 m assistec
climb up reaches an eyehole with no way climb up reaches an eyehole with no way on.
Reference: anon., 2012e (autumn logbook); anon. 2012 f (Christmas logbook) Entrance pictures : yes nderground pictures: yes Detailed Survey : plan and extended elevation pdf Line Survey : On area survey
Survex file : yes : (Amended magnetic declination December 2013 to align with Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014. . X
3779: caves-2
Ideopuerta 30T 4465824796394 (Datum: ETRS89 Accuracy code: A) Altitude 318 m Length 7 m
Area position

Updated 10th October 2013 Two small caves 7 m above the entrance to
Washing Machine Hole are on a large ledge Washing Machine Hole are on a large ledge
and unite after 5 m . The right hand entrance and unite after 5 m . The righ choked dig. The dig was worked in August 2013 but it "will require a lot more work".

Reference: anon., 2012e (autumn logbook); anon. 2013d (summer logbook)
Entrance pictures :
Underground picture Video :
Detailed Survey Line Survey Survex file : X
3780: holes-3
San Antonio 30T 4476664801817 (Datum ETRS89. Accuracy code: G) Altitude 72 m Length 10 m

Three short holes under a sandstone bed overlooking the road.

Reference: anon., 2012 f (Christmas logbook) Reference: anon., \(2012 f\)
Entrance pictures : yes Underground picture :
```

Video:

```
Detailed Survey
Line Survey
On area survey :
On area sur
Survex file :
X

3781: cave
La Gatuna 30T 4491944799548 (Datum: ETRS89. La Gatuna 30T 4491944799548 (
Accuracy code: G) Altitude 258 m Accuracy code: G) Altitu
Length 20 m Depth 2 m Length 20 m
Area position

Updated 6th March 2013
A 20 m long cave above site 2326 and below a sandstone bed. A series of tight cross rifts with a second entrance. Concerted digging is needed to make any further progress.

Reference: anon., 2012 f (Christmas logbook) Entrance pictures: yes Underground pictures: yes Detailed Survey : plan and extended elevation pdf Line Survey On area survey :
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.) X

3782: cavewhich was forced through two tightsqueezes and ended in a choke.found near the top of the rubble.
Reference: anon., 2012 (Christmas logbook)
Entrance pictures
Underground pictures
Underground pictur
Video :
Detailed Survey
Survey
On area sur
Survex file

\section*{Length 2 m
Area positio}

Updated 28th January 2013
These holes are found above Lenny's Cave (site 3721 ) and are all very close together. There's a track heading across and up the There's a track heading across and up
hill which starts in the woods near the corner of the field below site 3741. All of the
cill whin start in corner of the field below site 3741. All of th
shafts are just below this track, some are shafts are just below this track, some are
really digs. It's as though there's a joint on really digs. It's as though there's a joint on
which several shafts have developed, which which several shafts have developed, which
could even be the back end of the boulder could even be the back end site 0289 next chokes in Lens's save an site has been descended. to it. The GPS'd site has been discended.
This drops a couple of metres in a slot to This drops a couple of metres in a s
some trapped boulders which need some trapped boulders which need
removing. Three to four metres further is removing. Three to four metres further is
visible. The rest need work before they can be descended.

Reference: anon., 2012 f (Christmas logbook) Entrance pictures: yes Underground pictures Video :
Detailed Survey : Line Survey On area surv
Survex file :

X
3788: dig
San Antonio \(30 T 4477474801737\) (Datum: ETRS89. Accuracy code: G) Altitude 69 m Length 3 m Depth 3 m Area position

This site is a slide down into a small chamber. In the floor is a narrow slot which needs a small person to empty boulders out of and would probably need enlargement. There is a good draught.

Reference: anon., 2012 f (Christmas logbook) Entrance pictures: yes Underground pictures Video :
Detailed Survey : Line Survey On area surve
Survex file :
x
3789: diq
Hornedo 30T 4477804801620 (Datum: ETRS89. Accuracy code: G) Altitude 87 m Area position

A possible dig.
Reference: anon., 2012 f (Christmas logbook) Entrance pictures: ye Underground pictures : Video:
Detailed Survey
Line Survey. Line Survey On area sur
Survex file :
x
3790: dig
Hornedo 30T 4485594800463 (Datum: ETRS89 Accuracy code: G) Altitude 132 m Length 5 m

\section*{Area position}

A small hollow with a rift going in for about 4 m . There is a possible dig on the right just inside the entrance, draughting in slightly. Three metres in on the left is another descending rift which is too tight to enter.

Reference: anon., 2013b (Easter logbook)
Entrance pictures : yes Entrance pictures : yes Video:
```

Detailed s

```
\[
\begin{aligned}
& \text { Detalled Sury } \\
& \text { Line Survey } \\
& \text { On area surv }
\end{aligned}
\]
\[
\begin{aligned}
& \text { On area surve } \\
& \text { Survex file. }
\end{aligned}
\]
Survex file :

X
3791: dig
Hornedo 30T 4485364800433 (Datum: ETRS89 Accuracy code: G) Altitude 145 m

A sandstone-capped hole with outward draught.
```

*)
Entrance pictures: ye
Underground pictures
Video:
Detailed Survey
Detailed Sur
Line Survey :
Survex file :
X
3792: shaft

A hole in open grass with a 5 m drop to the

## 3794: shaf

## Seldesuto 30T 44 (Datum: ETRS89

 Length 15 m Depth 10 m Area positionA complex opening. The hole deeper into the hill has been dropped for about 10 m , but there is no way on.
The opening under the outside rock wall has The opening under the outside rock wall
a constriction 2 m down but floor can be seen at 4 m . As there is no discernible draught, the effort of enlarging the constriction seems somewhat futile.

Reference: anon., 2013b (Easter logbook) Entrance pictures : yes
Underground pictures : Video: Detailed survey
Line Survey: Line Survey
On area sur On area sur
Survex file

The entrance is a 1.5 m by 1 m opening at the top of the grassy bank 35 m to the west of the top entrance of Cueva Espada. This was explored at Easter 2013. short section of fair sized stream passage. Upstream the passage chokes after about Upstream the passage chokes after
25 m , while downstream the stream
imm, white downstream the stream
immediately sinks near a too tight sump
immediately sinks near a too tight sump
pool. The passage continues and splits. To
the right is a cobbly passage which gets toc tight, to the left rises to a choke with

## Length 20 m Area position

An entrance 10 m behind the sink at site 3800 enters a 6 m wide bedding chamber. A the west end is a dig sloping down, while at the east end an opening had been walled up, the construction being partly cemented up, the construction being partly cemented by flowstone indicating a considerable age This was dug through a tight squeeze Easter 2013 into a bedding full of stal ing exploration difficult. This could be ollowed for about 10 m . The stream sinking at site 3800 was neither seen nor heard.

```
Reference: anon., 2013b (Easter logbook)
Entrance pictures
Underground pictures
Underground pictures
Detailed surve
Detailed survey:sketch
On area survey : sketch map with other sites in the
On ar
Survex file :
```

x
3797: hole
Secadura 30T 4557454799197 (Datum: ETRS89.
Secadura 30T 4557454799197 (D
Accuracy code: G) Altitude 100 m
Area position
A small hole.
Reference: anon., 2013b (Easter logbook)
Reference: anon.,
Entrance pictures :
Underground pictures
Video :
Dideo:
Line Survey
On area sur:
Survex file:
X
3798: shaft
Fresnedo 30T 4534554800427 (Datum: ETRS89.
Fresnedo 30 T 4534554800427 (D
Accuracy code: G) Altitude 327 m
Length 8 m Depth 6 m
Area position
A 6 m deep shaft, $1 \times 3 \mathrm{~m}$ wide, drops into a
meander with a 10 cm wide opening in the
meander
Reference: anon., 2013b (Easter logbook)
Entrance pictures: yes
Underground pictures
Underground pictur
Video: Easter 2013
Video : Easter 2013 Detailed survey :
Line Survey
On area survey :
Survex file :
X
3799: shaft
Muela 30T 4539774796269 (Datum: ETRS89
Accuracy code: G) Altitude 600 m
Area position
"Shaft seen."
Reference: anon., 2013b (Easter logbook)
Entrance pictures:
Underground pictures
Video :
Detailed survey
Detailed su
On area surve
Survex file :
X
3800: Sewer Works Sink
Riaño 30T 4510234800683 (Datum: ETRS89
Accuracy code: A) Altitude 110 m
Area position

A stream sink taking a fairly substantial stream in moderately wet conditions, which flows from the south and also takes the discharge from a new sewage plant nearby. The stream sinks in sediments with no hope The stream sinks in sediments with no $h$
of easy access at this point. In flood the stream overflows to another sink adjoining cave 3299 The stream presumably joins the stream in Cueva Espada at some point.

```
Reference: anon., 2013b (Easter logbook)
```

Rentrance pictures:
Enderground pictures
Underground pictur
Video :
Vetailed survey
Line Survey
On area survey : with other sites in the area
Survex file
x
3801: sink
Cubija 30T 4500904796973 (Datum: ETRS89
Accuracy code: G) Altitude 289 m
Area position

A possible flood stream sink seen in the west bank less than 50 m upstream of the entrance to Cueva de la Morenuca (0774).

## Reference: anon.,

 Underground pictures MATIENZO UNDERGROUND - site descriptions (printed 19/02/2022 the site due to it being very overgrown.3806: cave $\qquad$ Ideopuerta 30T 4465564795918 ( below sandstone. No obvious way on.

Reference: anon., 2013b (Easter logbook)

## Length 8 m D Area position

Updated 5th December 2014
An 8 m deep and very tight rift at the top of a small cliff. This was described in November 2014 as an "impossibly tight rift which seems to choke"

Reference: anon., 2013b (Easter logbook); anon., Reference: anon., 2013b
2014d (autumn logbook) Entrance pictures: yes Underground pictures

## Video :

Detailed surv
On area surve
On area surv
Survex file :
x

3808: shafts - 2
Fuentecil 30T 4461514800349 (Datum: ETRS89. Accuracy code: G) Altitude 237 m Length 15 m
Area position

Updated 11th December 2018
Two holes at the same grid reference, one in the cliff face above. The lower hole is a choked 5 m shaft with a rift to an enlargement but there is limited digging space.
The upper hole is a 3 m descent into a rift chamber with a climb over a 2 m mud wall to a continuation. A small calcited rift had a too small eyehole 2.5 m up the wall which was dug out in October 2018. Boulders and calcite were removed to reveal an upwards vertical side shaft which entered an inlet aven, choked at the base with no way on.

```
Reference: anon., 2013b (Easter logbook); anon.,
Reference: anon., 2013
2018d (autumn logbook)
Video:
Detailed survey
Line Survey
On area survey 
On area surv
X
3809: shaft
3809: Shaft 
Fuentecil 30T 446098 4800353 (D
Accuracy code: G) Altit
Area position
A 5m deep rift, partly rubbish-filled, closes
down at the base.
Reference: anon., 2013b (Easter logbook)
Entrance pictures: yes
Video:
Detailed survey
Line Survey 
On area survey
Survex file :
x
3810: collapse Ideopuerta 30T 4465384795828 (Datum: ETRS89 Accuracy code: G) Altitude 438 m Depth 2 m
```

Area position

A significant hillside feature with a small hole. Rocks fall approximately 5ft.

```
Reference: anon., 2013b (Easter logbook)
Entrance pictures: ye
Underground pictures
Video:
Detailed survey
Detailed su
Line Survey:
Survea sur
x
3811: shaft
Ideopuerta 30T 446494 4795642 (Datum: ETRS89
Accuracy code: G) Altitude 447m
Depth 4m
```

Area position
Updated 5th December 2014

A fenced rift which is 8 m deep and choked. This is one of a set of rifts at this altitude which are too narrow.

Reference: anon., 2013b (Easter logbook); anon., Reference: anon., 20131
2014d (autumn logbook) Entrance pictures : yes
Underground pictures Video:
Detailed survey Line Survey On area survey : Survex file

3812: Campizos, Cueva de los Yoyó, Cueva dell) MATIENZO UNDERGROUND - site descriptions (printed $190102 / 2024$
 Area postition

Updated 10th October 2013; 26th September, 5th October, 6th, 7th December 2014; 24th May 2015; 25th October 2016; 20th February, 1st July 2018

Old rope was removed from the system in August 2016. The main pitch was re-bolted. All rope for this pitch and all other pitches has been removed when the cave was has been removed when the cave was
completely derigged, August 2017. See the 2016 rigging diagram sketch.

Park at the end of a new piece of road, on a bend above two recently renovated
houses. The cave is about 100 metres
downhill above a prominent solitary pine
tree. As the hole is approached a smallist
tree. As the hole is approached a smallish
ash tree and a hazel bush can be seen rising ash tree and a hazel bush ci
out of a hole on the hillside.
The upper lip is a vertical rock face. The lower grassy lip slopes down steeply to the entrance proper directly below the vertical face. The entrance is 2 m high and 4 m wide. A rubble slope continues downward at much the same angle to a rock face about 3 m high. Above this is a wide ledge and above that is a triangular eye-hole. The chamber is roughly circular, 11 m in diameter, and 4 m high at its tallest. Directly under the eyehole on the ledge is a 2.5 m round, 5.3 m
her hole on the ledge is a 2.5 m round, 5.3 m
deep shaft through very smooth, almost deep shaft through very smooth, almost
white rock. This original way on has beer white rock. This original way on has been
by-passed by a dig at the bottom of the wall which leads to the base of the 'white' pot. A which leads to the base of the 'white' pot. A
large passage to the right turns through 90 large passage to the right turns thi
degrees, then narrows and blocks degrees, then narrows and blocks
completely. The continuation of this passage completely. The continuation of this passage to the left of the white pot gradually lowers and blocks
The way on lies straight in line with the entrance where the back wall of an alcove, in very, very hard rock was bolted up to a belay at 7 m . The wall is only 1.5 m thick Descending the other side gains a $2 m$ wide passage which narrows to a crawl to the edge of a blind pot. A 7 m traverse above the pot leads to the edge of a very wide shaft, 14 m wide at this point. The pitch descends in 3 steps for a total of 25 m . The bottom of the shaft is roughly circular with a diameter of 10 m with a couple of alcoves which descend a few more metres and block. On the left of the chamber a 10 cm hole draughts well. About 2.5 m down the wall seems to undercut and widen. Any further progress will involve a shaft through progress will involve a shaft through unstable rubble and need capping anc shoring.
il Goodwin)
The draughting slot in the final chamber was worked at on one trip in August 2013 was worked at on one trip in August 2
and again in August 2014, when the and again in August 2014
breakthrough happened.
A repeatedly capped section allows access to a broken 17 m pitch - a 5 m drop to a sloping ledge then a rebelay with a 4 m drop and another rebelay to a p8 landing on the floor of a rift. One way (heading back to the entrance) has not been looked at; in the north direction, 20 m of passage ends at right hand bend and a 3m diameter shaft, estimated at the time to be about 70 m deep.

On the next trip, the pitch was rigged with several bolts at the top and a rebelay about 8 m down. The landing was on jammed blocks some 70 to 80 m from the pitch top with another large, echoing drop below, including a side rift "which appears to offer the safer way down".

The drop through the boulders was later descended as a p52 into a large chamber about 60 m long and 12 m wide at the widest. At least two leads to pursue with more tackle were noted: a drop into passage at the south end and, to the north, a smoothwalled meandering vadose trench about 1 metre wide where a rope is also neec (Sketch). The total pitch depth was measured by altimeter in November 2014 and found to be $125 \mathrm{~m} \pm 10 \mathrm{~m}$ deep. This makes the "best guesses" for the two, separately roped, drops 75 m and 44 m . See Phil Goodwin's elevation sketch. It was also noted that the floor of the main chamber had been reshaped by floodwater since the summer. The flat silt had gone revealing an entrance to downstream passage (in 3d survey batch 14-03).

Passages from the Main Chamber Exploration in the main chamber continued on two trips in November 2014 Up-slope vadose trench The passage meanders gently in a direction of $340^{\circ}$ with a general width of about 40 cm with widenings at the bends. The initial descent of 8 m can be climbed if the boulders are trusted. This is followed by a pitch of 7 m , another of 5 m and a climb down of about 5 m . The pitches are simply washed-out MATIENZO UNDERGROUND site descripitions (printed 19/02/2024) Volume 5 - page 156
sediment. After about 40 m it becomes
slightly too tight at the bottom level. slightly too tight at the bottom level.
However, the rift is about 40 m high and draughts inwards so there may be a way The route was pushed and partly survey The route was pushed and partly surveyed
t Easter 2015 as batch 3812-15-01, with an estimated leg to link to the main centre an estimated leg to link to the main centre line. This has been replaced by batch 17-04 at Easter 2017. Just before the rift gets too tight an 8 m climb leads to wider passage
and a climb/pitch down to a chamber with a and a climb/pitch down to a chamber with narrow outlet (too small for many metres). However, a 20 m climb leads to a further passage and a drop down with some water entering on the far wall - this pitch is still to be descended
A description of the 2017 Easter trip (which didn't reach the logbook) follows: 17th April 2017 - Yoyo 3812 Alex Ritchie, Tom Howard, Chris Scaife, Chris Sharman The trip was set to continue rigging down from the Big pitch in. Once descended, we continued down the rift off the main chamber and to the final aven. Alex and Chris Sharman proceeded to rig and bolt the final awkward climb whilst Tom and Chris Scaife surveyed in from the final station at the base of the big pitch (main chamber). the base of the big pitch (main chamber)
We surveyed the rift and finished at the We surveyed the rift and finished at
base of a 33 m unclimbed aven to be base of a 33m unclimbed aven to be
continued in summer. The next plan is a trip continued in summer. The next plan is a t
to the aven, survey up a climb and bolt to the aven, survey up a climb and bolt
across an undescended passage and into across an undescended passage anc
unexplored passage - surveying in. unexplored passage - surveying in.
Survey batch for this is 3812-17-04. I have Survey batch for this is 3812-17-04. I have replaced 3812-15-01 with the new 3812-17 04 and linked to the correct station. A single trip in the summer 2017, derigged the system after it "continued to nowhere exciting".

Downstream There is a hole in the floor of the Main Chamber that has been opened up by water. A series of short climbs between boulders leads down to a short 4 m hand line/pitch. At the bottom, in a small chamber, there are two ways on. To the left, after a few metres the passage drops to a crawl before opening up drastically into an aven chamber some 20 m high and $4 \times 4 \mathrm{~m}$ around. There is a confirmed connection with the main chamber at the top of the with the main chamber at the top of
boulder-slope where the pitch lands.

Back at the chamber below, the crawl, initially a stoop, leads into a tall rift - a dry stream passage. This continues for around 50 meters before developing into stoop/crawling passage with formations Some more passage and a low crawl lead to a dead-end aven chamber (climbed by Andrew Latimer). Beyond this the passage chokes at a narrow slit where a boulder choke can be seen around the corner. There is also a head-sized hole with possibly more passage above the choke but it would need digging/capping which could be difficult above head-height.
(Alex Ritchie)
An ammonite was found by Phil Goodwin lying in a pile of rubble. Although taken to the Natural History Museum, it requires an Iberian ammonite specialist to properly identify it

Reference: anon., 2013b (Easter logbook); anon., 2013d (summer logbook); anon., 2014d (autumn
2014); anon., 2015b (Easter logbook); anon., 2016 2014); anon., 2015b (Easter logbook); anon., 2016c
(summer logbook); anon., 2017c (summer logbook) Entrance pictures : yes
Underground pictures : Easter 2013 : summer
2013 : autumn 2014 2013: autumn 2014 Video : autumn 2014 exploration (YouTube, Alex Ritchie)
Detailed survey : pdf Easter 2013 : sketch of pitches and chamber below p17, 2014
survey after November survey after November $2014-$ svg - pdf (if
downloaded, best with SumatraPDF to view transparency)
2017 survey pdf 2017 survey pdi Line Survey:
On area survey
On area survey :
Survex file : yes (after summer 2017) (Amended Survex file : yes (after summer 2017) (Amended
magnetic declination December 2013 to align with magnetic declination December 2013 to align with
Eur79 grid and coordinates altered to fit ETRS89 datum, April 2014.)
Passage direction rose diagram: 1/7/2018
x
3813: cave
Las Calzadillas $30 T 4466534795588$ (Datum: ETRS89. Accuracy code: G) Altitude 485 m Length 5 m
Area position

An undercut at a small cliff face with three holes, all linked. A small passage runs parallel to the face and appears to choke at each end.

Reference: anon., 2013b (Easter logbook) Entrance pictures Underground picture Video: Detailed survey : in preparation Line Survey Survex file
Sur

## 3814: hole

Camposdelante 30 T 4463684798383 (Datum ETRS89. Accuracy code: G) Altitude 135 m Length 2 m Depth 1 m Area position
Updated 23rd May 2015
A 3 m deep hole with no way on
Reference: anon., 2013b (Easter logbook); anon.,
Reference: anon., 20
2015b (Easter logbook
2015b (Easter logbook)
Entrance pictures: yes
Video :
Detailed survey
Line Survey
On area survey
Survex file

3816: dig
Llueva 30 T 4544254797817 (Datum: ETRS89 Accuracy code: G) Altitude 275 m

## Area position

A small hole on the upper edge of a shakehole. It needs digging but there is no draught.

Reference: anon., 2013b (Easter logbook) Entrance pictures : yes Underground pictures Video :
Detailed survey
Detailed sur On area sur Survex file

3817: Black Marble Hole
El Suto 30T 4502544801057 (Datum: ETRS89
Accuracy code: G) Altitude 105 m
Length 5 m
Area positio
Updated 10th October 2013; 12th May 2018
[Previous grid reference were 30T 450252 4801067 and 30T 4502444801057 A small entrance alongside the road. The hole is under a sandstone outcrop where the road gulley ends. The initial entrance void is $3 \times 2 \times 1 \mathrm{~m}$ with a 45 degree slope which $3 \times 2 \times 1 \mathrm{~m}$ with a 45 degree slope which
drops 5 m to a very low crawl which needs drops 5 m to a very low crawl which needs digging. Just inside the entrance on the right hand side is an upward, draughting slot to a small passage which would require a lot of
work. A separate visit found the site "not work. A separate
very promising".

Reference: anon., 2013b (Easter logbook); anon 2013d (s
Entrance pictures : 201
Entrance pictures : 201
Video :
Detailed survey
Line Surve
On area surve
Survex file

## 3818: collaps

Ideopuerta 30T 4470794795859 (Datum: ETRS89 Accuracy code: G) Altitude 465 m
Area position
Also known as "Gordon's Scrap Hole". A large, scrap-filled collapse containing larg large, scrap-filled collapse containing large
blocks with multiple routes downwards, all choked.

Reference: anon., 2013b (Easter logbook Entrance pictures : Underground pictures

3819: shaft
deopuerta 30T 4471544795963 (Datum: ETRS89 Accuracy code: G) Altitude 440 m Length 11 m Depth 11 m Area position

A rubbish-filled, 11 m deep shaft, choked at both ends..

Reference: anon., 2013b (Easter logbook) Entrance pictures : ye Underground pictures Video
 Detailed sur Line Survey: Survex file :

X
3820: dig
Ideopuerta 30T 4465874796259 (Datum: ETRS89 Accuracy code: G) Altitude 358 m Area position

A dig in the top SW corner of a field and at the rear of a flat floored alcove in the bank. It requires more work.

Reference: anon., 2013b (Easter logbook) Entrance pictures Underground pictu Detailed survey Line Survey On area surve Survex file :

```
x
```

3821: shaft Ideopuerta 30T 4464454796158 (Datum: ETRS89 Accuracy code: G) Altitude 332 m
Area position

Updated 10th October 2013
A narrow shaft where "stones fall a good distance". It needs work to enter but also requires checking for draught on a hot day. In late July 2013, the site was found inaccessible due to brambles above head height and bracken.

Reference: anon., 2013b (Easter logbook); anon., Reference: anon., 2013b
2013d (summer logbook) Entrance pictures : yes Underground pictures Video :

## Detailed sur

Line Survey :


Survex fil
X
3822: dig
Ideopuerta 30T 4465164796262 (Datum: ETRS89 Accuracy code: G) Altitude 326 m Accuracy cod
Length 4 m Area position

A 4 m long dig.
Reference: anon., 2013b (Easter logbook)
Entrance pictures : yes

## Video :

Detailed surve
Line Survey
Line Survey
On area surve
Survex file
X
3823: dig
Ideopuerta 30T 4470144795925 (Datum: ETRS89, Accuracy code: G) Altitude 453 m
Area position

A small draughting hole

```
Reference: anon., 2013b (Easter logbook)
Entrance pictures :
Underground pictures
Undergro
Video:
One Survey:
Survex file :
X
3824: dig
Fresnedo 30T 453755 4801811 (Datum: ETRS89.
Accuracy code: G) Altitude 130m
Accuracy cc
Area position
```

Updated 10th October 2013
This was found on a recently cleared bank to the east of the Virgen caves area. A drop below a sandstone bed meets an undercut in limestone. It was dug to enter a 2 m crawl to a choke.

Reference: anon., 2013b (Easter logbook); anon.,
Reference: anon., 2013b
2013d (summer logbook)
Entrance pictures : yes Underground pictures

## Video :

MATIENZO UNDERGROUND - site descriptions (printed 19002/2022

## Line Surve

## 3827: diq

35484801745 (Datum: ETRS89 Accuracy code: G) Altitude 122 m
Area position
Updated 10th October 2013

The entrance is "up the bank and slightly left of Virgen's Cave" (which?). A small draughting tube which needs enlarging to reach a step down, and to the left to an enlargement.

Reference: anon., 2013b (Easter logbook); anon. 2013d (summer logbook)

Updated 10th October 2013
This site is a few metres below and to the right of site 3827 and is an enterable tube sloping down for about 3 m to a block acros the continuation. The site was found "too the continuation. The site was foul
tight to continue" in August 2013.

## Line Surv On area

 Survex file :x
3830: cave
Cobadal 30T 448340 4797279 (Datum: ETRS89, Accuracy code: G) Altitude 334 m
Length 30 m Depth 21 m Area position

Updated 10th October 2013
This site lies on the side of the "Hidden Valley" south of the main Cobadal depressions. A few metres of walk-in passage reaches the top of a deep pitch (20 -25 m ) at the near end of a rift about 10 m long, with water showering out of the roof. here is a good echo from rocks dropped down. On a visit to bottom the hole, it was found too wet to descend.

The site was explored in August 2013. A narrow, 3 m wide entrance leads top a vertical rift, 9 m across at this point. A descent of 19 m ends on a floor covered in rusty tin cans. The floor slopes down a further 2 m . At 6 m down the pitch, an inlet passage can be seen at the far side of the rift. At the bottom, the rift narrows to 5 m long but is now 3 m wide. There is no prospect of further progress.

Reference: anon., 2013b (Easter logbook); anon.,
2013d (summer logbook) Entrance pictures: Easter 2013 : summer 2013 Underground pictures Video :
Detailed survey Line Survey Survex file
x
3831: shaft
Cobadal 30T 4483144797394 (Datum: ETRS89. Accuracy code: A) Altitude 313 m Length 7 m Depth 7 m
Area position Area position

A hole covered by a metal disc near the road. A straight 7 m descent into a completely choked chamber. (The grid reference may be the nearby cattle feeder seen on the SIGPAC site.)

Reference: anon., 2013b (Easter logbook) Entrance pictures : yes Underg Detailed surve
Line Survey : Line Survey On area sur
Survex file : Accuracy code: G) Altitude 307 m

## Area position

A descending, slightly draughting narrow rif in a depression below the track near the barn.

Reference: anon., 2013b (Easter logbook) Entrance pictures: ye Underground pictures Video : Detailed survey Line Survey Survex file x
3833: cave
Llueva 30T 454458 4797506 (Datum: ETRS89 Accuracy code: G) Altitude 293m Length 5 m Area position

This site is below the track by the barn in the first depression and is a cold store with steps down into a chamber with lots of loose rock and no obvious ways on. Big coils of rope litter the chamber and the draught comes from all over.

Reference: anon., 2013b (Easter logbook) Entrance pictures : yes
Underground pictures : Video: Detailed surve
Line Survey : Line Survey : On area sury
Survex file :
x
3834: cave Accuracy code: G) Altitude 326 m Area position

This site is up on the side of a depression close to an old track to a barn. There are 3 MATIENZO UNDERGROUND - site descriptions (printed $190102 / 2024$
passable entrances sloping down into a
series of low inter-connecting chambers. Any continuing leads are too tight. There is a slight outward draught.

Reference: anon., 2013b (Easter logbook) Entrance pictures : yes Video
Detailed survey Line Survey On area surv Survex file

3835: dig
Llueva 30T 454184 4797788 (Datum: ETRS89, Llueva 30 T 4541844797788 (Datu
Accuracy code: G) Altitude 321 m Accuracy code: G) Altitude 321 m
Area position

A dig on the opposite side of the depression to site 3834 which needs a hammer and bar to enter.

Reference: anon., 2013b (Easter logbook) Entrance pictures : yes Underground pictures Video
Detailed survey

A hole in the stream bed.
Reference: card
Reference: card
Entrance pictures :
Untrance pictures : Y
Video :
Detailed survey
Line Survey: On area surv Survex file

## 3837: sink

Camposdelante 30T 4469484797737 (Datum ETRS89. Accuracy code: G) Altitude 142m Area position

This is an extensive sink area in flood conditions

Reference: card Entrance pictures : yes Underground picture Video:
Detailed survey Line Survey : On area sur
Survex file

X
3838: dig
Riaño 30T 4509754800719 (Datum: ETRS89 Accuracy code: A) Altitude 110 m Area position

A possible dig at the foot of the slope below site 3442 , approximately 30 m at 245 deg from site 3442 . The tube is too small but it may enlarge below floor level in mud. The hole is at the western end of the rockface containing other impenetrable holes - which containing other impenetrable holes - which may we weather sink below this on th edge of the field.

Reference: anon., 2013b (Easter logbook) Entrance pictures

## Length $5 m$ Area positic

A squeeze through into a tight rift into a small enlargement. A flatout tube ends after small

```
Reference: anon., 2013b (Easter logbook)
Reference: anon., 2013b
Video :
Detailed survey :
Detailed sury
On area survey
Survex file :
```

X
3841: diq
Secadura 30T 4553914799309 (Datum: ETRS89.
Secadura 30T 4553914799309
Accuracy code: G) Altitude 98 m
Area position

Updated 11th October 2013
Soft earth has been excavated from this dig until boulders were met whereupon a strong draught appeared. The dig is progressing.

Reference: anon., 2013b (Easter logbook); anon.,
2013d (summer logbook)
Entrance pictures : ye
Underground pictures : yes
Video : digging, summer 2013 (YouTube) Detailed surve Line Survey On area sur
Survex file :
x
3842: cave
Fresnedo 30T 4531984800523 (Datum: ETRS89. Accuracy code: G) Altitude 228 m Length 94 m Depth 6 m
Area position Area position

Updated 25th May 2014
A 0.4 m wide and 0.5 m high entrance leads into a meander $1 \times 4 \mathrm{~m}$ that, after 6 m , became too narrow. In 2013, this was passed at roof level and leads onto a p6 passed at roof level and leads onto a p6
from a column (use stals for rebelay to get 3 m back, where the meander is wide 3 m back, where the meander is wide
enough). A drop back into the meander enough). A drop back into the meander
continues for another 6 m where flowstone continues for another 6 m where flowstone made it too narrow, leaving only a hole of $10 \times 30 \mathrm{~cm}$. The hole was enlarged in 2013 and also at Easter 2014 when access was
gained to the whole cave at the lower level. gained to the whole cave
The cave draughted in.

After opening up the squeezes the explorers stopped in open passage, about 90 m in. During the following trip, the squeezes were further dug out to allow the widest member of the team in, but the passage closed down 5 m further on. The second squeeze is a tigh upward manouvre leading to a short climb down into a $4-5 \mathrm{~m}$ high rift, which is mainly comfortable walking size. This enters a chamber on the left with a hands-and-knees phreatic passage exiting straight ahead. The passage soon closes down at small holes and mud, with no sign of a draught on a reasonably warm day. Wide and deep scratch marks appear in the final mud wall. Reference: anon., 2013b (Easter logbook); anon., 2014b (Easter logbook) Entrance pictures : yes
Underground pictures : animal scratchings in mud Underground pictures : animal scratchings in
Video : Easter 2013 (YouTube): Easter 2014 (YouTube)
Detailed survey : 1:500 pdf Line Survey On area survey :
Survex file : yes Survex file : yes

X
3843: dig
El Naso 30T 4510284796851 (Datum: ETRS89 El Naso 30T 451028 4796851 (Da
Accuracy code: M) Altitude 436 m Accuracy cod

A dig in the side of a shakehole. No more details.

Reference: anon., 2013d (summer logbook)
Entrance picture : yes Entrance picture : yes Underground pictures Video : Line Survey : On area survey Survex file :
X
3844: dig
Fresnedo 30T 4535014801024 (Datum: ETRS89. Fresnedo 30T 4535014801024 (D
Accuracy code: G) Altitude 199 m
Area position

The dig is located just at the east side of road. Water is heard and at high flow it flows out in a pipe under the road. Loose rocks dig easily, but the roof at the start is loose rocks too.

Reference: anon., 2013b (Easter logbook)
Entrance pictures : yes

Reference: anon., 2013b (Easter logbook); anon.,
2016b (Easter logbook) Entrance pictures : Easter 2013 : Easter 2016 Underground pictures : Easter 2016 Video : exploration (YouTube) etailed survey : sketch Line Survey : Survex file : x
3851: cave
Bosmartín 30T 4501294797451 (Datum: ETRS89. Accuracy code: A) Altitude 421m
Area position
An open hole where a block stops downward progress.

Reference: anon., 2013b (Easter logbook)
Reference: anon., 2013b
Entrance pictures : yes
Underground pictures :

## Video :

 Detailed surveLine Survey : Line Survey On area sur
Survex file : X
3852: dig
Bosmartín 30T 4500874797333 (Datum: ETRS89 Accuracy code: G) Altitude 388 m
Area position
A possible dig behind a holly bush. There are half buried wine containers and a small are half buried wine containers and a small
badger-sized tube at the back, in a small scar.

Reference: anon., 2013b (Easter logbook) Entrance pictures: ye Underground pictures Video : Detailed survey One Survey Survex file :
x
3853: shaft
Ideopuerta 30T 4470144795980 (Datum: ETRS89 Accuracy code: G) Altitude 433m Length 70 m Depth 44 m Area position

Updated 11th October 2013
A site in rough pasture. A 9 m ladder descen off trees ends on a boulder slope of jammed blocks. Further exploration occurred in August 2013 when a hole in the NE corner o the floor was descended down a large, 22 m shaft on rope, past jammed blocks and several rebelays, to a sloping floor of debris and blocks. This point is about 40 m below and blocks. There is no way on at the base surface and there is no way on at the bas
of the final boulder slope without some of the final boul
serious digging.

```
Reference: anon., 2013b
2013d (summer logbook) (Easter logbook); anon.,
```

2013d (summer logbook)
Entrance pictures: Easter 2013 : summer 2013
Underground picture : yes
Detailed survey : sketch plan : sketch extended
elevation
Line Survey
On area survey :
Survex file :
x
3854: shaft
Ideopuerta 30T 4470764796010 (Datum: ETRS89
Accuracy code: G) Altitude 422 m
Accuracy code: G) Altitud
Length 11 m Depth 11 m
Length 11 m
Area position
An 11 m deep rift aligned $E-W$ and with
beds dipping to the east.

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Reference: anon., 20
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Reference: antrance pictures: yes
Underground pictures
Video
Video :
Detailed survey
Detailed sur
Line Survey
On area surve
Survex file :
X
3855: shaft
Las Calzadillas 30T 4481774795982 (Datum:
ETRS89. Accuracy code: G) Altitude 420 m
Length 20 m Depth 15 m
Area position

Updated 12th, 20th October 2013
There are 2 holes here dropping into the same chamber. Initially a bolt was placed for a ladder descent down the obvious entrance as it allowed a better view of the lower part of the pitch which is freehanging under an enormous block. The ladder was rehung off a tree to give an easier exit The pitch is about 8 m from the lip of the The pitch is about 8 m from the lip of the well down the entrance slope. The landing is MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
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in a large rift chamber with the skeleton of a cow and a horse. What appears to be 2 rusting tin cans were the remains of the horses shod hooves
At the northern end of the rift, part way back up the ladder and then down again, is the deepest point. Another ladder is required but any way on at the base required but any
appears choked.
Back in the main rift-cum-chamber, above Back in main rift-cum-chamber, above the horse remains, daylight enters through the second small hole in the surface depression.

Reference: anon., 2013b (Easter logbook); anon.
2013d (summer logbook)
Entrane pictures: Easter 2013 : summer 2013 Entrance pictures : Easter 2013 : summer 2013 nderground pict : yes

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Video:
```

Line Survey:
On area survey
On area sur
Survex file

3856: rifts - 3
Las Calzadillas 30T 4481184795961 (Datum: ETRS89. Accuracy code: A) Altitude 428 m Length 15 m Depth 6 m Area position

Updated 13th October 2013

Three separate rifts in a rock outcrop in a rough ground field. These were explored in August 2013.
The western one (Eur79 grid reference converted from SigPac ED50 then ETRS89 shown above) is approx 4 m deep 1 m long at the western end of a shallow limestone
outcrop. (This is where the GPS reading at Easter - 30T 4482044796167 ; ETRS89: 30T 4481024795958 - was taken). The hole continues but much too thin for further continues
progress
The middle one is by a small ash and oak tree (Eur79 grid reference converted from SigPac ED50 is 0448233 4796168; ETRS89: 30T 4481314795959 ) is estimated at 6 m deep. The very narrow rift would need capping. There is no draught in this 2 m long capping. There is no draught in this 2 m long
feature. Some 3 to 4 m to the east is another feature. Some 3 to 4 m to the east is anothe
rift, 3.5 m deep and 1 m long onto a choked rift, floor.
All the above rifts are aligned very roughly north

Reference: anon., 2013b (Easter logbook); anon. 2013d (summer logbook)
 summer 2013

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Undergrou
```

Video:
Detailed survey
Line Survey :
Line Survey
On area sur
On area sur
Survex file

## 3857: shaf

Las Calzadillas 30T 4481034795936 (Datum: ETRS89. Accuracy code: G) Altitude 435n
Area position

A fenced shaft in an open field that requires digging to explore.

```
Reference: anon., 2013b (Easter logbook)
```

Entrance pictures : yes
Underground pictures
Video :
Video:
Detailed survey
Line Survey
On area survey

3858: shaft
Las Calzadillas 30T 4482024795775 (Datum: Las Calzadillas 30T 4482024795775 (Datu
ETRS89. Accuracy code: G) Altitude 426 m Depth 5 m Area position

Reference: anon., 2013b (Easter logbook) Entrance pictures : yes Underg
Video :
Detailed st
Line Survey
On area surv

```
Survex file
```


## 

3859: shaft
Las Calzadillas $30 T 4481954795768$ (Datum:
ETRS89. Accuracy code: G) Altitude 425 m ETRS89. Accuracy code: G) Altitude 425m
Length 16 m Depth 11 m Length 16 m Depth 11 m
Area position
A few metres further down the gulley from site 3858 is a cirque of rock with an obvious entrance at the base. This leads almost immediately to an 8 m shaft. The floor at the base is stream debris. Back under the entrance slope is a hole up through boulders with water entering from the surface gulley MATIENZO UNDERGROUND site descripioions (printed 19/02/2024) Volume 5 - page 166
(on a wet day). Two pitons were noticed
near the entrance. At the top of the pitch near the entrance. At the top of the pitch a for several metres to a surface(?) run-in. The base of the slot is 3 m up the wall in the hamber the ladder lands in. It is not clear chamber the ladder lands in. It is not clear which direction the water took to create the roof tube and slot.
Water sinks in the floor of the chamber but Water sinks in the floor of the cham
there is no way on without digging. there is no way on without digging.
The site is developed along $250^{\circ}-70^{\circ}$

Reference: anon., 2013b (Easter logbook)
Entrance pictures : ntrance pictures Underground pictures

```
Video:
```

ideo:
Detailed surve
On area surve
Survex file
X
3860: holes
Las Calzadillas 30T 448211 4795781 (Datum
ETRS89. Accuracy code: G) Altitude 428 m
Area position

This site is "just above" site 3858. A shakehole with several holes and evidence of badgers.
Reference: anon., 201
Entrance pictures :
Underground pictures
Underground pictures
Video:
Detailed survey
Line Survey
On area survey
Survex file :
X
3861: cave
San Antonio 30T 4475684801877 (Datum
San Antonio 30T 4475684801877 (Datum
ETRS89. Accuracy code: G) Altitude 73 m
Length 2 m
A small entrance with no way on.
Reference: anon., 2013b (Easter logbook)
Entrance pictures: yes
Undergro
Video:
Detailed survey
Line Survey
On area surve
Survex file :
x
3862: Felipé, Cueva de
Hornedo 30T 4481094801225 (Datum: ETRS89.
Hornedo 30T 448109 $4801225(\mathrm{D}$
Accuracy code: G) Altitude 126 m
Length 8 m Depth 4 m
Area position

Updated 12th May 2018
A $3 \times 2 \mathrm{~m}$ cave entrance in the eucalyptus trees. A cold, mossy entrance leads to an undescended 4 m rift on the right which may continue. It could be associated with the passages heading north to sandstone chokes in Torca la Vaca.

On a visit in April 2018, the cave was too tight along the rift and it was thought the cave was on the verge of collapsing.

Reference: anon., 2013b (Easter logbook); anon., Reference: anon., 201
2018b (Easter logbook) Entrance pictures : Underground pictures : yes Video : Easter 2013 (YouTube) : Easter 2018 (YouTube)
Detailed survey
Line Survey
On area surv
On area surve
Survex file :
X
3863: diq
Camposdelante 30T 4474554799195 (Datum: Camposdelante 30T 4474554799195 (Dat
ETRS89. Accuracy code: G) Altitude 310 m Depth 2 m Area position

A 1 m diameter hole, 2 m deep, on the south side of a small depression. Rocks rattle down a few metres and it is worth a dig

Reference: anon., 2013b (Easter logbook)
Entrance pictures : yes
Underground pictures :
Video:
Detailed surve
Line Survey :
On area surve
Survex file :
X
3864: rift
Cobadal 30T 4480544799304 (Datum: ETRS89 Accuracy code: G) Altitude 354 m Depth $1 m$
Area position

A very small rift, $25 \mathrm{~cm} \times 40 \mathrm{~cm}$ against a rock outcrop and just over a metre deep.

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The entrance is 1 m high $\times 40 \mathrm{~cm}$ wide and will need digging with a rope 2 m in - blocks to be removed. The cave slopes down at $40^{\circ}$ the rels out at about 4.7m (Disto) in e slot at the top of this rift read 12 m . It's worth an hour or so dig

Reference: anon., 2013b (Easter logbook) Entrance pictures : y Underground pictures
Video:
Detailed survey
Line Survey
On area sur
Survex file
Survex file :

## 3866: dig

Cobadal 30T 4479574799309 (Datum: ETRS89 Accuracy code: G) Altitude 353m
Area position
A shallow rift some $80 \mathrm{~cm} \times 3.5 \mathrm{~m}$ high with a tiny cave feeding water into the rift. Holes at the bottom and side go a metre or so

A 2 m diameter collapse area with a rift shaft
A 2 m diameter collapse area with a rift sha
on the north side below the forestry track. on the north side below the forestry track.
The $2 \mathrm{~m} \times 30 \mathrm{~cm}$ slot then opens up a little to The $2 \mathrm{~m} \times 30 \mathrm{~cm}$ slot then opens up a little
a sloping floor at 2 m and down to 4 m to a
dig.

Reference: anon., 2013b (Easter logbook Entrance pictures: y Underground pictures
Video :
Detailed survey
Detailed sur
Line Survey
Line Survey
On area sur
On area sur
Survex file

## 3868: dig

Cobadal 30T 4478044799266 (Datum: ETRS89 Accuracy code: G) Altitude 337 m Area position

A small dig under a rock outcrop. The hole, which slopes down to a dig, may take some water in heavy rain

Reference: anon., 2013b (Easter logbook)
Reference: anon., 2013
Entrance pictures: yes Entrance pictures: yes
Underground pictures Video :
Detailed survey
Line Survey: On area surv Survex file

## 3869: cave

S Vega 30T 4508734794405 (Datum: ETRS89 S Vega 30T 4508734794405 (Da Accuracy code: G) Altitude 590 m
Area position
A scramble down to a tiny chamber with a couple of tight slots that drop 2 or 4 m couple of tight slots that drop 2 or 4 m Another 2 small entrances are in line towards the east.
Reference: anon., 2013b (Easter logbook)

3870: cave

A rift aligned on $340^{\circ}$ magnetic and about 4 m long at the surface. The visible depth is $4-5 m$ to an extremely narrow drop of about 3 m depth

Reference: anon., 2013b (Easter logbook)

Entrance pictures : yes

## Video :

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etailed
Detailed surve
```

On area surve

Survex file :
X
3873: depression
Las Calzadillas 30T 4483234795801 (Datum Las Calzadiilas 30 T 4483234795801 (Dat
ETRS89. Accuracy code: G) Altitude 460 m Area position

A debris-floored depression with rock walls and no obvious way on.

Reference: anon., 2013b (Easter logbook) Entrance pictures : ye Underground pictures Video : Detailed survey Line Survey Survex file x
3874: shaft
Las Calzadillas 30T 4483234795811 (Datum Las Calzadillas 30 T 4483234795811 (Dat
ETRS89. Accuracy code: G) Altitude 460 m Length 6 m Depth 4 m

## Area position

A 4 m deep hole, 2.4 m long aligned along $144^{\circ}-324^{\circ}$. The NW end is blocked by a farm tip. The other is a capping job which has been disto'd to 5.8 m at $-30^{\circ}$.

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Reference: anon., 2013b (Easter logbook)
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Reference: anon., 2013b
Entrance pictures : yes
Underground pictures :

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Viderg:
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Video:
Line Survey :
```

Line Survey
On area survey :
Survex file :
X
3875: shaft
3875: Shaft 448323795821 (Datum:
ETRS89. Accuracy code: G) Altitude 460 m
Length 9m De
Area position

A 5 m long slope down on a bearing of $330^{\circ}$ A 5 m long slope down on a bearing of 33
to reach a depth of 4 m and a right hand to reach a depth of 4 m an
turn. The floor is choked.

Reference: anon., 2013b (Easter logbook) Entrance pictures: yes Underground pictures Video: Detailed surve On area survey : Survex file :
Detailed
Line Survey
On area sur
Survex file
$x$
3878: cave
Hornedo 30T 4479184800837 (Datum: ETRS89.
Accuracy code: G) Altitude 182 m
Length 3 m
Area positio
Area positio
Up the hill from site 2949, a significant
amount of water resurges from a sandstone
slot, cascading down and then quickly
sinking into a small chamber 1 m high and
2.5 m diameter. The water sinks into the
floor.

Reference: anon., 2013b (Easter logbook) Entrance pictures
Area position

This site was dug until the top of a very narrow slot was uncovered.

Reference: anon., 2013b (Easter logbook) Entrance pictures

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Entrance pictures:
```

Video :
Detailed survey
Line Surve
On area surve
Survex file

## 3880: shaft

Riaño 30T 4512814800733 (Datum: ETRS89. Accuracy code: G) Altitude 128 m

## Depth 5m

This site - a well overgrown 4-5m deer shaft - can be found in the jungle on clint not far in from the edge of the open field. It needs vegetation clearing to see things clearly

Reference: anon., 2013b (Easter logbook) Entrance pictures

Detaiale surve
Line suruevy On area surve Survex file:
x
3882: shaft
San Antonio 30T 4473284801451 (Datum: ETRS89. Accuracy code: G) Altitude 98 m Depth 4 m

A well overgrown depression in the jungle with a 4 m just off-vertical drop to where it looks to be choked with no draught.

Reference: anon., 2013b (Easter logbook) Entrance pictures Underground pictures
Video : Video:
Detailed survey Line Survey
On area sur On area sur
Survex file :
x
3883: dig
Llueva 30T 455087 4797971 (Datum: ETRS89 Accuracy code: G) Altitude 90 m Area position

A $2 m$ hole down in sandy limestone that needs the top enlarging to enter. The site is close to site 3734 which was taking a reasonable stream at the time, although nothing could be heard down this hole.

Reference: anon., 2013b (Easter logbook)
Entrance pictures:
Underground pictures :

## Video :

Detailed survey :
Line Survey :
On area sury
Survex file :

## X

3884: cave
Ozana 30T 4539354794404 (Datum: ETRS89 Accuracy code: A) Altitude 267 m Length 366 m
Area position

Updated 22nd June, 13th October 2013; 23rd May 2015; 21st February 2016; 26th September 2023
A small depression just up from the field edge contains a slope down to an open entrance into a bouldery chamber (with old shoes on the floor). The floor slopes down to 3 m pitch between a large boulder and a solid wall. At the base, a delicate crawl down over boulders leads to the top of a second, similar depth pitch, down which water (in wet weather) drops. This pitch was dropped 4 m in May 2013 to an open passage with a stream. Downstream, the walking-size passage lowers and meets a boulder choke within a few metres. Boulders have been moved around in this area but prospects at moved around in this area but prospects and stream level don't look promising. Just back
from here, up a narrow rift on the right, it is possible to push a camera into a cross rift that goes over the choke. This may be enterable after the inital rift up has been enlarged. Upstream, hands and knees crawling in water and silt soon meets a sump.
Over the top of the second pitch a small, muddy, phreatic passage becomes smaller at a sideways squeeze then becomes a mixture of roomy crawling, walking and traversing as the sandy, phreatic highe level cuts across the streamway. The passage meets an unexplored crawl through a pool but this can be bypassed by climbing up to the higher level on the right. The cave soon becomes smaller and, after a sideways squeeze through a small pool, the route onwards is small around a left hand bend The passage at this point appears to be gently rising and is about 20 m east and 22 m below the sink at site 2449 .

A possible continuation of the higher level A possible continuation of the higher level
heading downstream then east from the top of the second pitch has been explored, but of the second pitch has been explored, but
only for 20 m to a low dig with no noticeable draught.

OBA detectors were placed in the stream in March 2015 when Leucaphor was placed in site 3886. No OBA was detected here but the trace proved positive in Jivero 1

Optical brightener was put in the stream on 13th February 2016 and detectors checked in various resurgences over the next few days in rising and falling flood conditions. The optical brightener came through at the Jivero 1 resurgence between 48 and 72 hours later. (The full details can be found here.)

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Entrance picture
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## 3885: resurgence

## Ozana 30T 453808 4794434 (Da

 Accuracy code:Area position
(The grid reference is an estimate). A small resurgence half way between site 3884 and resurgence half way between site 3884 an site 0246. The water usually sinks at site 3886 but heavy rainfall produces a cascade down the hillside that can be seen in a photo of the 0246 area.

Reference: anon., 2013b (Easter logbook) Entrance pictures

Updated 23rd May 2015
(The grid reference is an estimate). Water coming out of site 3885 sinks at this point Heavy rainfall produces a cascade down the Heavy rainfall produces a cascade down the 0246 area.

In March $2015,300 \mathrm{ml}$ of OBA was put into the sink. Detectors were placed in site 388 and Jivero 1. The latter proved positive.

Reference: anon., 2013b (Easter logbook); anon.

Updated 13th October 2013 most easterly, is a 5 m deep, open, roomy most easterly, is a 5m deep, open, room shaft which is choked at the base. Five metres to the northwest is a narrow choked further 9 m away.

Reference: anon., 2013c (Whit logbook); anon.,
2013d (summer logbook) 2013d (summer logbook) Entrance pictures: ye Video:
Detailed surve Line Survey On area surve Survex file :
x
3890: shaft (Silent Scream deopuerta 30T 4469254796088 (Datum: ccuracy code: G) Altitude 382 m ength 79 m Depth 39 m Area position

Updated 30th October; 25th November 2013 An awkward sideways squeeze down ends at the head of a pitch. There is a bolt on the surface for a traverse line. A bedding plane just below the pitch head is full of fill with rifts connecting back to the main shaft. The main drop of $4 \mathrm{~m}+17 \mathrm{~m}$ is split to avoid a rub point.
The floor can be followed down to holes between boulders - one can be followed down to another 5 m pitch to a blind pit. A rift off the base of the main pitch leads to two pitches down on the right - only the firs one was dropped as they connect. This drops 10 m to the floor where rifts continue drops small, but taking the draught. The rift too small, but taking the draught. The rift continues over the head of these pitches to point where it narrows before possibly opening after a constriction.

```
Reference: anon., 2013c (Whit logbook); anon.,
2013d (summer logbook)
Ntrance pictures: yes
Underground pictures: yes
Detailed survey : yes
Line Survey:
On area survey
Survex file : yes (Amended magnetic declination
December 2013 to align with Eur79 grid and
```

December 2013 to align with Eur79 grid and
coordinates altered to fit ETRS89 datum, April 2014.)
X
3891: dia
Cubija 30T 450352 4796575 (Datum: ETRS89
Cubija 30T 4503524796575 (Datu
Accuracy code: G) Altitude 278m
Length 2 m Depth 2 m
Area position

A small hole on the hillside which drops one metre to a blockage then a further metre

Reference: anon., 2013d (summer logbook) Entrance pictures nderground pictures Video : Line Survey : On area survey Survex file

X
3892: cave
Ideopuerta 30T 4469464796074 (Datum: ETRS89 Accuracy code: G) Altitude 387 m Length 5 m Depth 2 m
Area position
A 1.5 m deep site into a chamber with dimensions $3 \times 2 \times 0.75 \mathrm{~m}$. Cool, but no way on.

Reference: anon., 2013d (summer logbook) Entrance picture : yes Underground pictures Video :

```
Detailed sur
``` Line Survey
On area sur Survex file :

X
3893: hole
Ideopuerta 30T 4469044796096 (Datum: ETRS8 Accuracy code: G) Altitude 391m Accuracy code
Length 1 m
Area position
A small hole which closes down after 1 m .
Reference: anon., 2013d (summer logbook)
Reference: anon., 2013
Entrance picture : yes
Entrance picture : yes
Underground pictures
Video :
Detailed surve
Line Survey : Line Survey On area surve Survex file

\section*{3896: dig}

\section*{San Antonio 30T 4454494800774 (Datum:} ETRS89. Accuracy code: G) Altitude 143 m Area position

\section*{Updated 18th November 2017}

An overgrown area and depression which required a lot of work to get to access. The draughting hole at the bottom was found to be blocked by sandstone boulders. There is another depression about \(10-15 \mathrm{~m}\) away to the west. The site was seen again in Octobe 2017, with a grid reference of 30T 0445437 4800776.

Reference: anon., 2013d (summer logbook); anon. Reference: anon.,
2017d (autumn logbook)
the ladder in the south wall draughts gently out and also at high level there may be a passage going off to the west. Access requires a good climber, maypole or bolts.

Reference: anon., 2013d (summer logbook) Reference: anon., 2013d
Entrance pictures: yes
Underground pictures: Entrance pictures : yes
Underground pictures: yes Video:
Detailed survey Line Survey On area surve Survex file :
x
3898: cave
Las Calzadillas 30 T 4481574795999 (Datum Las Calzadillas 30 T 4481574795999 (Dat Length 4 m Depth 3 m Area position

A 3 m deep and 3 m long hading rift choked with farm debris

\section*{Reference: anon., 2013d (summer logbook) Entrance pictures : ye Video: \\ Video : \\ Detailed surve \\ On area survey \\ Survex file : \\ x \\ 3899: cave \\ Las Calzadillas \(30 T 4479844796448\) (Datum ETRS89. Accuracy code: G) Altitude 431 m Length 12 m Depth 7 m \\ Area position \\ A rift, 1 m by 5 m , drops 5 m to a soil floor. A slope down for 1 m leads to a small 2 m shaft. Several small cracks descend further but there is no prospect of more progress \\ ```
Reference: anon., 2013d (summer logbook) \\ Reference: anon., 2013d \\ Entrance pictures: yes \\ Video: \\ Detailed survey \\ Line Survey: \\ On area survey : \\ Survex file \\ X \\ 3900: rift \\ Las Calzadillas 30T 4481384795997 (Datum: \\ Las Calzadillas 30T 448138 4795997 (Dat \\ ETRS89. Accuracy code: \\ Area position
```}

A small hole in a small shakehole about 6 m east of site 3897. It is possible to hear hammering in 3897 from here. The hole is covered with slabs and looks to be a narrow rift about 2 or 3 m deep.

Reference: anon., 2013d (summer logbook)
Entrance pictures : yes Entrance pictures: yes Underground pictures Video : Line Survey: On area survey : Survex file

X
3901: dia
Moncobe 30T 4457614796355 (Datum: ETRS89. Accuracy code: G) Altitude 277 m Length 3 m Depth 3 m

\section*{Area position}

Updated 26th September, 6th December 2014; 5th January, 5th October 2015; 3rd, 7th January 2018; 7th January 2023

A narrow rift dug on at least 7 occasions in August 2013. The site appears to be an old stream and it has developed a good draught. The hole has been walled and made stock proof. One digging trip was carried out in August and several in November 2014. By that time, both the inverted "V" and alternative narrow, draughting rift required considerable further work.

Further capping was carried out in July 2015 and October 2017

A new downward dig was started at the base of the entrance slope in October 2022. Reference: anon., 2013d (summer logbook); anor
2014c (summer logbook); anon., 2014d (autumn logbook); anon., 2015c (summer logbook); anon., 2017d (autumn logbook); anon., 2022e (Christmas logbook
Entrance pictures : summer 2013 : summer 2014 Underground pictures
```

Detailed survey :

```
Line Survey
On area surve
Survex file
X

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2022

3902: dig

An earth and boulders dig in a shakehole abandoned when the draught was los abandoned when the draught was lost.
When re-examined in October 2016, there When re-examined in October 2016, was a good draught but, after some
excavation (along with 3903), the site is excavation (along with 3903), the site is deemed a long-term project.
Reference: anon., 2013d (summer logbook); anon. Reference: anon., 2013 c
2016d (autumn logbook) Entrance pictures
```

Underground pictures

```
Video:
Detailed survey
Line Survey:
On area survey
On area sur
Survex file
3903: dig

Moncobe 30T 4458684796328 (Datum: ETRS89. Accuracy code: G) Altitude 270 m
Area position
Updated 30th November 2016

A draughting narrow crack in a small rock face. When re-examined in October 2016, there was a good draught but, after some excavation (along with 3902), the site is deemed a long-term project.

Reference: anon., 2013d (summer logbook); anon. Reference: anon., 2013c
2016d (autumn logbook) 2016d (autumn logb
```

Underground picture

```
Video:
Detailed survey
Line Survey
On area survey
Survex file

3904: dig
Moncobe 30T 4458644796331 (Datum: ETRS89, Moncobe 30T 4458644796331 (
Accuracy code: G) Altitude 268 m Accuracy code:
Area position
"Modest progress" has been made in this dig at a small undercut at the base of a rock face.
Reference: anon., 2013d (summer logbook) Entrance pictures : yes
Underground pictures
Video :
Detailed survey
Line Survey
On area sur
Survex file

3905: cave
Hornedo 30T 4485274800237 (Datum: ETRS89. Accuracy code: A) Altitude 148 m
Length 6 m
Area positio

Updated 21st October 2013; 9th October 2014

A draughting crawl on the side of a large shakehole dug on nine occasions in August 2013 after a nearby Molephone location with the Wasdale Screes area in Torca la Vaca. A work in progress. The Survex 3d file, below, shows the Wasdale Screes area of Torca la Vaca along with the Molephone point and the entrance to this site, along with others* the entrance to this site, along with othe
(The surface survey line and point labels (The surface survey line and point labels
should be shown. The passage walls should should be shown. The passage \(n\)
also be shown in the elevation.)
The site was looked at in the summer 2014 The site was looked at in the summer 2014 but, after the connection to Torca la Vaca 3916), interest in continuing this dig may 3916 ), intere
have waned.
```

* Other sites of interest in or around the depression over this end of Torca la Vaca include 2916, 3594, 3906, 3914, 3916, 3924 and 3925.
Reference: anon., 2013d (summer logbook); anon. Reference: anon.,
2014c (summer logbook) Entrance pictures : yes Underground pictures :
3906: dig
Hornedo 30T 4485124800228 (Datum: ETRS89 Accuracy code: A) Altitude 144 m

Update 21st October 2013; 25th May 2014
A draughting site on the side of a large shakehole dug once in August 2013 after a nearby Molephone location with the Wasdal Screes area in Torca la Vaca. It is about Screes area in Torca la Vaca. It is about
20 m WSW of site 3905 . The Survex 3d file, below, shows the Wasdale Screes area of below, shows the Wasdale Screes area of Torca la Vaca along with the Molephone point and the entrance to this site, along with others. (The surface survey line, point abels and passage walls should be shown.) Digging continued at Easter 2014 with the floor lowering

Other sites of interest in or around the depression over this end of Torca la Vaca nclude 2916, 3594, 3905, 3914, 3916, 3924 and 3925.

Reference: anon., 2013d (summer logbook); anon Reference: anon., 201
2014b (Easter logbook) Entrance pictures :

```
Underground pictures :
```

Video : entrance (YouTube)
Detailed survey
Line Survey
On area survey
Survex file : entrance position
X
3907: cave
3907: Cave
Cobadal
Accuracy code: G) Altitude 345 m
Accuracy cod
Length 6 m
Length 6 m
Area position

A small passage excavated under a sandstone bed. "Extremely tight" and no way on after about 6 m .

Reference: anon., 2013d (summer logbook) Entrance pictures :

```
Undergr
```

Vetailed survey :
:
Line Survey
On area survey
Survex file :
X
3908: shaft
Cobadal 30T 4485144797278 (Datum: ETRS89
Accuracy code: G) Altitude 298m
Length 20 m Depth 10 m
Area position

A 5 m shaft drops into a $4 \times 2 \mathrm{~m}$ chamber. A dig under the left wall enters a $4 \times 1 \mathrm{~m}$ chamber which drops into another chamber $(5 \times 3 \mathrm{~m})$ with a tight solution tube going down but filled with boulders which would require a lot of work to clear. The site draughts well.
"There are various draughting shafts in the same location."

```
Reference: anon., 2013d (summer logbook)
```

Reference: anon., 2013d
Entrance pictures : yes
Underground pictures
Entrance pictures : yes
Video:
Detailed survey :
Line Survey
On area survey :
On area sur
Survex file :
X
3909: shaft
3909: Shaft
Cobadal 30T 4485224797278 (Da
Length 9 m Depth 5 m
Area position
An excavated entrance to a 5 m shaft that
An excavated entrance to a 5 m shaft that
drops into a $4 \times 4 \mathrm{~m}$ chamber with a draug
drops into a $4 \times 4 \mathrm{~m}$ chamber with a draught coming out from between boulders in the floor. Lots of work is needed to continue.
Reference: anon., 2013d (summer logbook)
Entrance pictures : yes Entrance pictures : yes

```
Underg
```

Video:
Detailed survey :
Line Survey
On area survey
Survex file :
x

3910: cave
Fresnedo 30T 453599 4801992 (Datum: ETRS89. Accuracy code: G) Altitude 113 m
Length 20 m Depth 10 m Length 20 m Depth 10 m Area position

Updated 26th March 2014
This site came into the Matienzo Caves permit area in 2014.

A large entrance in a big stand of trees. A climb down a "dodgy" slope ends at a big sump pool with underwater passage visible.

When inspected by divers at Easter 2014 the first visitor wrote, "a pool so crap looking, I wouldn't bother diving it if it was in my own back garden". But a second diver

The reality turned out to be somewhere inbetween. The underwater passage seen on the right hand side was followed for 3 m where it choked with mud. Airspace could be where it choked with mud. Airspace could seen and 7 minutes of underwater digging enabled Jim Lister to enter a small chambe above water. A small passage leading off was fully choked with mud. On the dive out, the diver followed the floor of the passage and found a slot which was descended to a blockage of branches.

Link to entry in the Cave Diving Sump Index.

Reference: anon., 2013d (summer logbook); anon., 2014b (Easter logbook
Entrance picture : yes
Underground pictures : yes
Video : Dive Easter 2014 (YouTube) Line Survey : On area survey Survex file

## 3912: shaf

## Las Calzadillas 30T 4480674796012 (Datum:

 ETRS89. Accuracy code: G) Altitude 410 m Area positionA hole drops into an east-west rift
approximately 10 m long (underground). It is approximately 10 m long (underground). It is possible to climb down past loose material to a depth of around 11 m . Here a calcited slope goes back up but needs a thinny to ascend. Draughts out and caveable beyond.

Reference: anon., 2013d (summer logbook) Entrance picture : yes Underground pictures : yes
Video :
Detailed survey Line Surve
On area su Survex file

Updated 21st October 2013
A good draught issues from this hole on the side of the large and deep shakehole close to the Molephone point connected to the Wasdale Screes area of Torca la Vaca. The site has been excavated through a low crawl to a small chamber. More description?

Other sites of interest in or around the depression over this end of Torca la Vaca depression over this end of Torca la Vac include 2916, 3594, 3905, 3906, 391 3924 and 3925

## 

 Video : excavations (YouTube) Detailed surve On area sur Survex file : X3915: Garma, Cueva la Hornedo 30T 4491874801641 (Datum: ETRS89 Accuracy code: A) Altitude 99 m Area position

Updated 18th, 22nd November 2017
Draughting holes below site 3261. Digging occurred over three sessions in October 2017 when 27 m of passage was revealed eading to a collapse zone. There was no draught apart from at the entrance
However, smoke set off in a small extension However, smoke set off in a small exte to site 3261 appeared at the entrance immediately". A line survey was carried ou underground and be
3915 and site 3261.

Reference: anon., 2013d (summer logbook); anon Reference: anon., 2013d
2017d (autumn logbook) Entrance picture

```
Video:
ideo
```

Detailed survey : with site 3261
Line Survey :
Survex file
x

3916: BigMat Calf Hole
Hornedo 30T 4485644800273 (Datum: ETRS89. Accuracy code: A) Altitude 155m Length included in Torca la Vaca (site 2889)
Area position

Updated 21st October 2013; 6th March 26th May, 9th, 12th October, 5th December 2014; 2nd January, 23rd February, 23rd May, 5th, 17th October 2015; $4^{\text {th }}$ May, 25th October 2016; 30th June 2018

The steel mesh cover the BigMat Calf Hole entrance must be over the hole at all times. Goats knock stones from the wall and there has been at least one instance when a hefty rock was only prevented from falling onto a caver prevented from falling onto a cav bounce, by a well placed foot. If the bounce, by a well placed foot. If the
animals are about, close the lid as each person descends and ascends the person desce

BigMat Calf Hole is the "Vaca Back Door" BigMat Calf Hole is the "Vaca Back Door"
and the preferred entrance for explorations south of the duck/sump in the Torca la Vaca System. The entrance lies at the edge of a field approached off the first bend on a track from the farmhouse. Vehicles should not block the road and must leave room for milk tankers to pass at any time of the day. It may be possible to park in the farmyard, with permission.
A 2 m high stone wall that held back the spoil removed from the dig has now slumped. The entrance has a concrete surround with a grid and an almost vertical, 60 cm wide drainage tube (with holes cut into the side) drops 3 m down into a rift. The lid should cover the hole at all times to prevent animals and rocks falling down. The field is used by livestock.

The route is 5 m down between scaffold tobes to a crawl on the left through another tube which connects through to a loose oulder slope and a permanently rigged 12 m pitch down into a rift. Through to the northeast is another permanently rigged 5 m climb down that drops down onto the Wasdale Screes and the remainder of Torca la Vaca. This route removes the need to negotiate the duck or dive at Lake
Bassenthwaite and puts the caver well south of Scafell Aven.

Two videos show the complicated route through to the Walking on Eggshells passage in Torca la Vaca. (See below)

The site was noticed a couple of days afte the successful molephone location at Wasdale Screes in Torca la Vaca which put the underground molephone station directly under a large block on the track skirting a large and deep depression, full of eucalyptus trees. The block appeared to be at the side of a joint, the direction of which lined up nicely with the underground rift. When a quick examination and some cursory digs along the line in the depression failed to reveal any promise (just sandstone boulder and soil), the north side of the track, into and soil), the north side of the trac
the field, was inspected. A shallow depression with one tiny piece of visible limestone was seen and, with nothing else tostone was seen and, with nothing else here. By the end of the summer 2013 MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 $\begin{gathered}\text { Volume 5-page 17 }\end{gathered}$
campaign and after some 14 visits, the site
was over 8 m deep, shored up with scaffold was over 8 m deep, shored up with sca
poles and planks with an encouraging draught and underground features that gave hope for a connection with Torca la Vaca.

It was noticed in February 2014 that the shaft top had slumped. The hole was covered with branches to wait for remedial work and further excavation
After 10 digging sessions that Easter, the soft sludge that had completely filled the hole was finally removed. This left the hole more or less in the state it was at the end of the previous summer except that much more shoring was deployed to keep back the rest of sediment. The site was still draughting.

The summer 2014 campaign started with more digging then another trip into Vaca to confirm the proximity of both both sites with smoke, hammering, fireworks, radios, etc. smoke, hammering, fireworks, radios, et Some time was wasted digging down too
deep having had smoke appearing througr deep having had smoke appearing throl the floor from of the molephone passage northern end of the molephone passage
Vaca. Eventually, on the eighth day of Vaca. Eventually, on the eighth day of activity - August 15th - the connection wa made. This is through the left hand wall (now with tube installed) about 8 m dowr the dig and linking with a bouldery slop and excavated crawl at the top of the original climb above the original molephone station made in 2013
Three more days in the summer and another three in the autumn saw more work with concrete and tube transported from Matienzo.

After the wettest period for decades, the connecting crawl was found collapsed at the start of the 2015 Easter expedition. It took a couple of days work to re-open the connection
Because of the continuing threat of wet Because of the continuing threat of wet
sediments collapsing into the crawl, it was sediments collapsing into the crawl, it was
enlarged to take another section of tube and enlarged to take another section of tube and this was installed at the end of the sumbe expedition, 2015. In order to get the tube down the entrance climbs, a 2 m section was cut in half then each half cut in four lengthways. Each piece had location pegs glued in place and metal straps installed fo bolting together in situ. (Photos below).

A small mud slump was cleared from the far end of the connecting crawl at Easter 2016, before further explorations started.

More work with blocks and cement is required underground to lessen the risk of any further collapses.

The Survex 3d file, below, shows the Wasdale Screes area of Torca la Vaca along with the Molephone point and the entrance to BigMat Calf Hole, along with others. (The
surface survey line and point labels should surface survey line and point labels should
be shown. The passage walls can also be be shown. The passage
shown in the elevation.) shown in the elevation.)
The construction supplies company, BigMat in Ramales, generously donated 6 m of 60 cm diameter double-walled plastic drain pipe, most of which has been used ir the entrance and connecting crawl.
Other sites of interest in or around the depression over this end of the Torca la Vaca System include 2916, 3594, 3905, $3906,3914,3924$ and 3925. 2014a (January, February logbook); anon., 2014b
(Easter logbook); anon., 2014c (summer logbook) anon., 2014d (autumn.logbook); anon., 2014e (Christmas logbook); anon., 2015b (Easter logb anon., 2015c (summer logbook); anon., 2016b (Easter logbook); anon., 2016c (s
anon., 2016e (Christmas logbook)

Suve
 altered to fit ETRS89 datum, April 2014.) On Torca la Vaca 3d file

X
3917: SixFourOne, Cueva

 Accuraray coode: A Altitude $222 m$ | Length |
| :---: |
| Areatim |
| postion |

Updated 26th March; 13th October 2014; 5th January 2015; 8th January 2018

Site 3917 (east) is a prominent entrance with a mature tree growing right outside. A m wide, low slot goes down a 5 m long earth bank (covered with small sandstone rocks) into walking passage that quickly
becomes a narrow rift, generally of walkin becomes a narrow rift, generally of walking height, but occasionally requiring crawling. One squeeze has been opened up a little. The passage here is 1 m wide and 3 m high and the walls are covered with powdery (like icing sugar) formations.
Forwards leads to either a crawl at floor level or a climb up to route just under the roof. The crawl at floor level can be followe via a squeeze to a very short section of standing passage and an abrupt end to the cave. The high level route terminates at a hole back down into the lower level about 2 m from the end of the passage. The end is a circular enlargement just under a metre diameter and about 3 m high with wet, mud overed formations. The route is choked with calcite at roof level, with a mild draught through a hole in calcite. Further progress is unlikely at this point
The main line of development is on 48 degs On an early visit daylight the west was
On an early visit, daylight was noted entering the roof bedding on the west side of the cave. Rather than excavating the bedding in the cave, a few rocks wer moved outside to give access to the bedding. At this point a steep slope goes down into a parallel passage running back into the hill. This western entrance leads further back into the hill and is deeper than the initial cave.

## Western entrance

The hole on the left at the base of entrance slope (requiring a ladder) has been examined and is the deepest part of the known cave but would need digging to get to that point. The descent is a series of squeezes maybe going down 14 or 15 m below roof level. This has not been pushed further.

Moving on in the entrance passage, a $T$ unction is reached left. Going up the right hand side of this run in slope, the sandstone roof steps up where the bottom part of the sandstone bed has fallen off. Here a bedding runs off to the west to point where daylight can be seen. On the surface this point is a couple of metres east
of the eastern entrance to site 3918 . ( It of the eastern entrance to site 3918. ( It
looks as though 3917 and 3918 could be connected by digging under the lowest part of the sandstone bed.) There are now numerous rifts going back into the hill from the bedding, so its possible there may be others off this bedding.

Turning to the right at the $T$ junction at the end of the entrance passage, the run in slope can be followed down to a point that would need digging to get through. Above has allowed some impressive stals to form. You can climb up here and traverse forward You can climb up here and traverse forw
to a pit about 4 m deep to a debris slope. to a pit about 4 m deep to a debris slope.
Forward across the pit seems to be blocked Forward across the pit seems to be blocked
by the stal flows, but a way on at the base by the stal flows, but a way on at the base
is being followed in the same direction as is being followed in the same direction as
the sandstone slot. The pit was laddered off the sandstone slot. The pit was laddered off
a couple of large columns and the walls are a couple of large columns and the walls a
quite loose. (Care! There is a large loose quite loose. (Care! There is a large loose
lump of stal column looking like a plaster le lump of stal column looking like a plaster les
cast at the end of the traverse!). cast at the end of the traverse!)
A cold, draughting dig is progressing at he base of the pit, where a larger bit of passage was entered for 10 m . The current end is now a smaller draughting hole that is still a good dig prospect as there is stacking space.
At Easter 2014, it was reported that the "muddy dig is too small" and further work is required to enlarge the passage. Work continued in the summer when the tight squeeze into the final passage was removed and capping continued. In November, the site was cleared and opened up to allow access to an open rift passage. This soon closed down and a higher level continuation was also found to close in (Survey?)

Reference: anon., 2013d (summer logbook); anon 2014b (Easter logbook); anon., 2014c (summer rn entrance : eastern MATIENZO UNDERGROUND - site descriptions (printed $19022 / 2024$

```
\begin{array} { l } { \text { entrance } } \\ { \text { Undergro} } \end{array}
```

Video
Detailed surv
Line Survey
On area sur
Survex file

## 3919: cave

Riaño 30T 452323 4800075 (Datum: ETRS89 Accuracy code: A) Altitude 262 m gth 2 m

## Updated 8th January 2018

An entrance under the overhang which goes back 2 m to a small pit. A very low bedding goes over the top. The floor of the pit is stones and debris that might be diggable to a possible lower level widening.

Reference: anon., 2013d (summer logbook)
Reference: anon., 2013d
Entrance pictures : 2013
Detailed su
Line Survey

$$
\begin{aligned}
& \text { On area survey } \\
& \text { Survex file. }
\end{aligned}
$$

$\qquad$

Updated 13th October 2014; 22nd May 202
A $3 m$ deep shaft under a large sandstone slab with a slight outward draught that was discovered in 2013. A short ladder drop lands in a chamber with a way on leading to deep, fluted limestone pillars. A number of these lead to various chambers and more pits. The far end closes down. The pits may lead to a lower level, but further work is required.
Site 5342 is beyond the current end of this cave.

Reference: anon., 2013d (summer logbook); anon Reference: anon., 2013d (summer logbook); an
2014c (summer logbook); anon., 2023b (Easter 2014c (summer logbook); anon., 2023b (Easter
logbook)

```
Entrance pictures : yes 
```

Video :

```
Video:
Na,ed survey : sketch
```

Line Survey
On area survey
Survex file
X
3924: dig
Hornedo 30T 4485664800251 (Datum: ETRS89.
Hornedo 30T 4485664800251 (D
Accuracy code: A) Altitude 151 m
Accuracy code
A possible old fridge site in the Wasdale
Screes depression that has a slight cool
draught. Other sites of interest in or around
the depression over this end of Torca la
Vaca include 2916, 3594, 3905, 3906, 3914,
3916 and 3925.
Reference: anon., 2013d (summer logbook)
Entrance pictures:
Entrance pictures :
Underground pictures
Video :
Detailed survey
Detailed sur
Line Survey
Line Survey:
Survex file
X
3925: diq
Barrio de los Urros 30T 4484484800147 (Datum
ETRS89. Accuracy code: A) Altitude 163 m
Area position

Updated 26th March 2014
A small hole in the side of the track, low down in the left bank, just after an electric fence gate with two coils of wire across. It is fence gate with two coils of wire across.
rabbit hole-sized but looks to widen out quickly. It was described at Easter 2014: "It quickly. It was described at Easter 2014:
really is a rabbit hole - with no way on".

Other sites of interest in or around the depression over this end of Torca la Vaca include 2916, 3594, 3905, 3906, 3914, 3916 and 3924.

Reference: anon., 2013d (summer logbook); anon. 2014b (Easter logbook) Entrance pictures Underground pictures Video :
Detailed survey Line Survey On area surv
Survex file :

X
3926: dig
Moncobe 30T 4462184795814 (Datum: ETRS89. Accuracy code: G) Altitude 280 m
Area position
A narrow, vertical slot with a good draught in the rock face at river level

```
Reference: anon., 2013d (summer logbook)
Reference: anon., 2013
Entrance picture:yes
Video:
Detailed survey
Line Survey
On area surve
Survex file :
X
3927: shaft
Moncobe 30T 4460324796410 (Datum: ETRS89
Moncobe 30T 446032 4796410 (D
Depth 1m
Area position
```

A 1 m deep, choked, narrow shaft with a good draught.

Reference: anon., 2013d (summer logbook) Entrance picture : yes Viderground pictures

## Video :

 Detailed surveyLine Survey: MATIENZO UNDERGROUND - site descriptions (printed 19002/202
Volume $5-$ page 18

```
ON area surv
Survex file
```


## 3928: shaf

Ideopuerta 30T 4473874796412 (Datum: ETRS89. Accuracy code: G) Altitude 225 m
is 3 m deep and well choked.

```
\begin{array} { l } { \text { Reference: anon., 2013d (summer logbook,} } \\ { \text { Entrance picture : yes } } \end{array}
Reference: anon., 2013
```

Underground pictures
Video :
Detailed survey
Line Survey
On area survey
Survex file
3929: Lisa, La
3929: LISa, La
Cubillas $30 T 4526484796094$ (D
Accuracy code: G) Altitude 153 m
Accuracy code
Area position
Updated 21st February 2016; 6th May 2016
This is now a large round area in the field
where most of the water from Sima-Cueva
del Risco resurges
During an optical brightener test from site
3884, detectors were placed in the stream
near the pasabolo pitch from 13th February
2016 and checked over the next few days in
rising and falling flood conditions. The
results were consistently negative. The
optical brightener came through at the
Jivero 1 resurgence after 48 hours. (The full
details can be found here.)
detergence after
The site was visited in March 2016 and
described as a muddy hole in a field.
Reference: anon., 2013d (summer logbook); anon.
2016a (January, February logbook); anon., 2016b
(Easter logbook)
Entrance picture : yes
Underground pictures
Video :
Detailed survey
Line Survey
On area sur
Survex file
x
3930: caves - 3
La Secada 30 T 4527954797140 (Datum: ETRS89
Accuracy code: A) Altitude 170 m
Length 4 m
Area positior
Updated 11th, 30th November 2016
A set of tiny shelters and a through trip
between boulders in what looks like a
promising wood

Reference: anon., 2013d (summer logbook); anon. 2016d (autumn logbook) Untrarground pictures :
Video :
Detailed survey
Line Surve
On area survey
Survex file

## 3931: shaf

S Vega 30T 4527524794703 (Datum: ETRS89 Accuracy code: A) Altitude 384 m

## Depth 3 m

Area position

This undescended small hole, covered with a couple of boulders (one sandstone) lies about 10 m west of the second concrete pole up hill of an old track off the Cantones track. It seems about 3 m deep but no light was available.

Reference: anon., 2013d (summer logbook) Entrance picture : ye Underground pictures Video :
Detailed survey Line Survey On area sur Survex file

Reference: anon., 2013d (summer logbook); anon.,
2015c (summer logbook) 2015c (summer logbook)
Entrance picture : yes Entrance picture: yes
Underground pictures Video :

```
Detaile
``` Detailed survey Line Survey Survex file : x
3933: shaft
S Vega 30T 4523984794871 (Datum: ETRS89 Accuracy code: M) Altitude 381 m Area position

Updated 12th May 2018
A fenced hole. "Not worth pursuing". In April 2018, it was noted that there was "a confusing area of holes around here"

Reference: anon., 2013d (summer logbook); anon 2018b (Easter logbook) Entrance picture:
Underground pictures Video:
```

Detailed s
Line Survey:

```
On area surve
On area sury
Survex file :
X
3934: shaft
S Vega 30T 4524284794881 (Datum: ETRS89
Accuracy code: M) Altitude 371 m
Arcuracy position

A tight rift blocked with a large boulder. Not deep. "Not worth pursuing".
Reference: anon., 2013d (summer logbook)
Entrance picture :
Entrance picture:
Underground pictures
Video :
Detailed survey
Letailed surv
On area surve
Survex file :
x
3935: dig
Alisas 30T 4474794794082 (Datum: ETRS89.
Accuracy code: G) Altitude 658 m
Area position
Accuracy code
Area position

A dig covered in rocks in a field.
Reference: anon., 2013e (autumn logbook) Reference: anon., 2013
Entrance picture : yes
Underground pictures
```

Video:

```
```

Detailed surve

```
Line Survey :
On area survey
Survex file :
X
3936: shaft
Alisas 30T 4481034793633 (Datum: ETRS89
Alisas 30T 4481034793633 (Datu
Accuracy code: G) Altitude 715 m
Accuracy code: G) Altitud
Length 38 m Depth 27 m
Length 38 m
Area position

The entrance shaft is approximately 1 m by 0.6 m and behind a boulder. There is also a 0.6 m and behind a boulder. There is also a The tree by the entrance is marked VT-?? and a box which appears to indicate partial and a box which appears to indicate partial
exploration (by Catalans?). No ways on were exploration (by Catalans?). No ways on were
seen in the shaft.
```

Reference: anon., 2013e (autumn logbook)
Entrance picture: yes
Underground pictures
Video:
Detailed survey : pdf
Detailed surve
On area survey
Survex file : yes (Coordinates altered to fit ETRS8S
Survex file : yes (C)
x
3937: shaft
Alisas 30T 448019 4793693 (Datum: ETRS89.
Accuracy code: G) Altitude 680m
Area position

```

A unexplored shallow rift that could be site 1169, although that appears to be 60 m further north and 25 m below.
```

Reference: anon., 2013e (autumn logbook

```
Reference: anon., 2013
Entrance picture : yes
Underground pictures
Entrance picture : yes
Underground pictures
Video:
Video:
Detailed survey :
Line Survey
Line Survey :
On area survey :
Survex file :
X
3938: cave (Builder's Bum Hole)
Trillos 30T 4478084793938 (Datum: ETRS89
Accuracy code: G) Altitude 633 m
Length 66 m Depth 15 m
Length 66 m
Area position
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A rift slopes down at \(40^{\circ}\) some 30 m on a joint. A too small hole at the bottom has no draught. Ten metres in, below a 3 m climb is a passage on the right (looking out) that is a passage on the right (looking out) that drops into a small boulder chamber and dig. This chamber connects to site 3939. There is a good draught in on a warm but windy da
so needs checking on a still, hot day. The so needs checking on a still, hot day. The total length of the combined system is some 45 m .
Other GPS readings are 30T 0447901 4794147; ETRS89: 30T 4477994793938 4794147; ETRS89: 30T 447799 4793938
and 30T 0447936 4794122; ETRS89: 30T 4478344793913

In October 2014, the dig at the bottom of the entrance rift was excavated to squeezesize which then reached a small choked slot which is not worth digging. The best option is now the choke in the chamber between the two caves, marked as "dig" on the survey. Some work was carried out here under a hading roof at Easter 2016.

Reference: anon., 2013e (autumn logbook); ano 2014d (autumn logbook); anon., 2016b (Easter (
Entrance picture : yes
Detailed surver :
Line Survey
On area survey
Survex file : yes

3939: cave

The entrance has the remains of an old wall. The chamber inside contains an excavated The chamber inside contains an excavated
slot, 3 m beyond which is a dug out inclined slot, 3 m beyond which is a dug out incline rift dropping to the head of a ladder pitch.
At the foot is a connection through boulders At the foot is a connection through bould \(\epsilon\)
to site 3938 . The grid reference above is to site 3938 . The grid reference abol from the survey. An alternative grid
reference is ETRS89: 30T 4478314793920. Reference: anon., 2013e (autumn logbook); anon., 2014d (autumn 2014); anon. 2016b (Eook

Pata sury

\section*{3943: shaft}

N Vega 30T 4502164796019 (Datum: ETRS89. Accuracy code: G) Altitude 327 m Depth \(2 m\)

\section*{Area position}

A small shaft some 20 m east of rift dig, site 3942. Two metres deep and no real prospec looking down hole from above. Not descended.

\section*{Rerence: anon., 2013e (autumn logbook) Entrance picture : yes Underground pictures Video: \\  Line Survey Survex file : x 3944: cave N Vega 30T 450112 4796068 (Datum: ETRS89. Accuracy code: G) Altitude 328m Length 12 m Depth 8 m Area position}

A 3 m climb into an old remnant section of cave with formations. The top of a shaft below the entrance was opened up and descended 5 m to where more progress will need snappers or caps. The draught needs checking on a hot still day. (See write up by PE - to include here).

Reference: anon., 2013e (autumn logbook) Entrance picture : yes
Underground pictures nderground pictures : yes Video:
Detailed survey Line Survey On area surve Survex file :
X
3945: resurgences
Fuente las Varas 30T 4532414799598 (Datum: ETRS89. Accuracy code: A) Altitude 416 m Length 1 m

\section*{Updated \(6^{\text {th }}\) May 2016}

Resurgences that spout strongly in wet weather. They lie just above the main road and there are no possible passages. Some of the flows are piped into troughs. Reference: anon., 2013e (autumn logbook); anon.,
2016b (Easter logbook) Entrance pictures : autumn 2013 : Easter 2016 Underground pictures Video: Detailed survey Line Survey Survex file :

X
3946: resurgence
Fuente las Varas 30T 4532484799501 (Datum: ETRS89. Accuracy code: M) Altitude 420 m Area position

A small, wet weather resurgence just above the main road. Not investigated.
```

Reference: anon., 2013e (autumn logbook)
Reference: anon.,
Entrance picture :
Undergro
Detailed survey
Line Survey
On area survey
Survex file :
X
3947: cave
Solórzano 30T 452158 4801859 (Datum: ETRS89.
Solórzano 30T 452158 4801859(
Accuracy cod
Area position
An excavated hole with a 3.5 m slide to a mud choke.
Reference: anon., 2014b (Easter logbook) Entrance picture : yes Underground pictures Video : Line Survey : On area survey: Survex file :
x
3948: cave
Solórzano 30T 4516664801984 (Datum: ETRS89. Accuracy code: G) Altitude 208m Length 5m Area position
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2022 $\begin{array}{r}\text { Volume } 5 \text { - page } 18\end{array}$

```

An excavated hole with a narrow slot to a muc

Reference: anon., 2014b (Easter logbook) Reference: anon.,
Entrance picture : yes
Underground pictures Undergrour Video : Detailed surv Line Survey On area surv Survex file

\section*{3949: dig}

Solórzano 30T 4530634803306 (Datum: ETRS89 Solórzano 30T 453063 4803306 (
Accuracy code: G) Altitude 147 m Accuracy code
Area position

A depression at the edge of a sloping field A depression at the edge of a sloping field
with a limestone face. A small hole has no with a limestone face. A sme
draught but the soil will dig.

Reference: anon., 2014b (Easter logbook) Entrance picture : y Underground pictures Video :
 Detailed su Line Survey On area sur
Survex file 

3950: shaf
Solórzano 30T 4531814803299 (Datum: ETRS89 Accuracy code: G) Altitude 165 m
Area position
Updated 8th January 2020
A depression just off the track on the uphill side has steep sides to a small(?) vertical drop which needs checking out. The eucalyptus wood has been recently felled eucalyptus
The hole was explored in October 2019 as The hole was explod rift 2019 as climb down in a 3 m deep rift to a complete choke.

Reference: anon., 2014b (Easter logbook); anon., 2019e (autumn logbook) Entrance picture: yes
Underground pictures Video:
Detailed surve
Line Survey
On area surv
```

Survex file

```

3951: cave
Updated 14th October 2014

A large, deep depression, cleared of

\section*{Cave entrances in the cliff face in a} shakehole. When explored at Easter 2016, was described as an old, water-worn rift with no way on

Reference: anon., 2014b (Easter logbook); anon., ntrance picture : Easter 2016 Entrance picture: East Video: Detailed surve One Survey : Survex file :
x
3954: caves
Barrio la Mina 30T 4445104800203 (Datum ETRS89. Accuracy code: A) Altitude 225 m ength 20 m

Updated \(6^{\text {th }}\) May 2016; 8th January 2018
The entrances lie in a cliff face (sandstone outcrop?) in a large depression. Length is a guess.
At the western hole, by the base of an obvious sandstone outcrop, entry is gained over rubbish. Approximately 3 m of large passage in sandstone leads to an open section back to the surface with a larger chamber in front - again all in sandstone. There are numerous animal skulls on the foor here. A low way off under the north wall trends east ending under roof collapse from the chamber above. Infill obscures exactly what is happening here. It gives the impression of a large and wide filled passage, but there is no limestone seen. A crawl east from the chamber leads past another smaller window back to the surface another smaller window back to the surfa
into a lower section over sandy mud. The into a lower section over sandy mud. The passage carries water in wet weather whi
has brought in broken glass. It ends at a nas brought in broken glass. It ends at a narrow gap in mud and boulder. Th Back in the chamber, a way down between Back in the chamber, a way down bety
sandstone blocks was dug. From the sandstone blocks was dug. From the
logbook: "We had noted that the roof of the logbook: "We had noted that the roof of
chamber had some cracks but the area chamber had some cracks but the area around the choke seemed OK. However,
while reducing the size of one of the blocks while reducing the size of one of the blo
in the choke the good bit of roof gave a creak and dropped slightly. Time to go." The cave was draughting out and is probably connected with the earlier dig as both are trending towards one another and at a similar level with opposite draughts. A live rat was seen in the cave. Any volunteers for this project?"

Reference: anon., 2014b (Easter logbook); anon., Reference: anon., 201
2016b (Easter logbook) Entrance picture : Easter 2014 \& 2016 Underground pictures : 2014 Video:
Detailed survey Line Survey On area sur
Survex file :

X
3955: Ermita, Cueva del

\section*{(Rapunzel Pot)}

Garzón, Solórzano 30T 4505414803125 (Datum: ETRS89. Accuracy code: G) Altitude 223 m Length 21 m Depth 7 m

The entrance is a hole at the base of a smal cliff in a field. A handline or ladder is useful to drop down the steep slope. The cave has large amounts of ivy clogging the decorated route. At the bottom, a fragment of skull and part of a tibia were found. These were later delivered to the laboratories of the Museo de Prehistoria y Arcqueologia de Cantabria (MUPAC) in the University of Cantabria campus. The receipt gives an entry number of 993, dated 23rd April 2014.

The cave was surveyed in August 2014.
```

Reference: anon., 2014b (Easter logbook)
Entrance picture
Underground pictures : yes
Archaeology: yes
Archa
Detailed survey : pd
Line Survey
On area survey:
X
3956: shaft
Garzón, Solórzano 30T 451020 4803263 (Datum:
l
Area position
A 5.5 m deep shaft in a depression.

Reference: anon., 2014b (Easter logbook)
Entrance picture : yes Entrance picture : yes
Underground pictures

```
A 2m blind rift.
```

Reference: anon., 2014b (Easter logbook)
Reference: anon., 2014
Entrance picture : yes
Underground pictures
Video :
Detailed survey
Line Survey :
On area survey
Survex file
3958: cave
Garzón, Solórzano 30T 4509534803351 (Datum:
Garzón, Solórzano 30T 4509534803351 (
ETRS89. Accuracy code: G) Altitude 143 m
Length 2 m
Area positio
A $2 m$ long, $2 m$ high hole
Reference: anon., 2014b (Easter logbook)
Entrance picture : yes
Underground pictures
Video
Video:
Detailed survey
Line Survey
On area survey
On area sur
Survex file
X
3959: resurgence
Solórzano 30T 4511504803365 (Datum: ETRS89
Solorzano 30 cos ( $)$ Altitude 85 m
Arearacy position
Unlikely dig at a small resurgence.
Reference: anon., 2014b (Easter logbook)
Entrance picture : yes
Entrance picture : yes
Underground pictures
Video
Detailed surv
Line Surve
On area surv
Survex file :
3960: cave
Solórzano 30T 4536334803499 (Datum: ETRS89
Accuracy code: G) Altitude 188 m
Length 10 m Depth 5 m
Area position
It is possible to drive up the track into the
Los Pozos area and park at the end. On the
right of the track, towards the highest point
right of the track, towards the highest poir
is a deep sink hole with steep sides. A 5 m
is a deep sink hole with steep sides. A 5 m
steep slither down then a 5 m ladder reache
steep slither down then a 5 m ladder reach
the base of the pit which is cov
cow bones and has no way on.
Reference: anon., 2014b (Easter logbook)
Entrance picture : yes
Video : exploration (YouTube)
Detailed survey
Line Survey :
On area survey
On area sur
Survex file

3961: Nicanor, Cueva de (Canor, Cueva de) Solórzano 30T 4530874803385 (Datum: ETRS89. Accuracy code: G) Altitude 135 m Length 500 m Depth 15 m Area position

Updated 17th May 2019
A well-known cave in the area that has been explored and surveyed by the Grupo Espeleológico de Santander del C.A. Tajahierro. Their survey is published in Tajahierro. Their survey is published in
Exploraciones en Solorzano (Santander) in Exploraciones en Solorzano (Santande
Los Sótanos de la Tierra, No. 5, 1980, Los Sótanos de la Tierra, No. 5, 1980,
Santander (ref. 1980a). The cave has beer Santander (ref. 1980a). The cave has bee explored and partially resurveyed (285m, June 2013) as part of a Pete Smith study of the medieval(?) black marks seen through out the cave. (Unfortunately, there is also a lot of modern graffiti).

A walk-in entrance leads to mainly walking passage on one level. Part way along there is an unexplored (?) pitch down on the right and a number of ramps down to a smaller lower level. At the far end of this, a small extension was entered after digging out at extension was entered after digging out at
Easter 2014. The part of the cave that has not been resurveyed lies down the first
ramp and back to the west where there is another entrance (?). There could be about 200 m of passage to resurvey here.

Reference: anon., 1980a (survey); Fernández V, 1988; Muñoz E, 1988; Smith P, 1988; anon., 2014b (Easter logbook); anon., 2019b (Easter logbook) Entrance pictures : 2014 \& 2019 Underground pictures : yes Video:
Detailed survey : from anon., 1980a Detailed surve
Line Survey :

Surex file : partial (2013)
Passage direction rose diagram: 1/7/2018
X
3962: rift
Solórzano 30T 4511244803005 (Datum: ETRS89. Accuracy code: G) Altitude 119 m Area position

A well vegetated sink hole near a wate trough. The base has only tyres and a dead goat.

Reference: anon., 2014b (Easter logbook) Reference: anon.,
Entrance picture Untrance picture :

```
Video:
Detailed surve
```

Line Survey :
On area surve
Survex file :
x
3963: rift
Las Calzadillas 30T 4485194796149 (Datum:
ETRS89. Accuracy code: G) Altitude 534 m Length 2 m Depth 2 m Area position

A 2 m deep rift.
Reference: anon., 2014b (Easter logbook) Entrance picture' : yes Underground pictur Video : Detailed survey Line Survey Survex file
X

3964: shaft
Las Calzadillas 30T 4484054796180 (Datum ETRS89. Accuracy code: G) Altitude 514 m Length 15 m Depth 8 m
Area position

An 8 m deep rift to a circular chamber with no way on. (The length is a guess.)

```
Reference: anon., 2014b (Easter logbook)
```

Reference: anon., 2014
Entrance picture : yes
Underground pictures
Video :
Detailed survey
Line Survey
On area survey
Survex file :
X
3965: shafts - 2
Las Calzadillas 30T 4487444796344 (Datum:
Las Calzadillas 30T 4487444796344 (Dat
ETRS89. Accuracy code: G) Altitude 522 m
ETRS89. Acc
Depth 6 m
Area position
Depth 6 m
Area position
Two undescended shafts, disto'd to 5 and
6 m depth. (Should be given separate
6 m depth. (Should be give
numbers when explored.)

Reference: anon., 2014b (Easter logbook) Entrance picture : yes Underg Detailed survey Line Survey On area surve Survex file :
x
3966: shafts - 2
Las Calzadillas 30T 4487084796364 (Datum ETRS89. Accuracy code: G) Altitude 515 m Depth 2 m

Two undescended shafts, disto'd to 4 and 2 m depth. (Should be given separate numbers when explored.)

Reference: anon., 2014b (Easter logbook) Entrance picture : yes Entrance picture, yes
Underground pictures Video:
Detailed survey
Line Survey Line Survey On area surve
Survex file :
x
3967: hole
Las Calzadillas 30T 4486524796409 (Datum ETRS89. Accuracy code: G) Altitude 499m Depth 3m Area position

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## An undes to 2.6 m .

Reference: anon., 2014b (Easter logbook)
Reference: anon., 2014
Entrance picture : yes Entrance picture : yes
Underground pictures
Video :
Detailed surv
Line Survey : On area surve

3968: rift

## Barrio la Mina 30T 4445124800215 (Datur

68: rift ETRS89. Accuracy code: G) Altitude 225 m Area positio

Updated 8th January 2018
An unexplored shaft in the track. At this int the tracks runs over a sandstone be some metres thick. A large block of this has slipped away towards the adjacent depression leaving a slip rift feature. This is open to the surface at one point in the side of the track where it is possible to see a short distance down and along the rift in both directions. This is all in sandstone.

```
Reference: anon., 2014b (Easter logbook)
Entrance picture, April 2014
```

Underground pictures :
Video :
Detailed survey
Line Survey
On area survey
On area sur
Survex file
3969: cave
Barrio la Mina 30T 4446424800145 (Datum:
Barrio la Mina $30 T 4446424800145$ (Datur
ETRS89. Accuracy code: G) Altitude 215 m
Length 15 m
Area positio
Updated 6 ${ }^{\text {th }}$ May 2016; 8th January 2018
An overhanging wet and dark sandstone
outcrop in the middle of a gully and just
below a forestry track. There is a good
draught coming out from below the outcrop
and there are numerous rocks which may
have been placed in the site some time ago,
A couple of hours digging gave about 3 m of
access. Another visit and dig opened 5 m
along the face to the northwest, the
opposite direction
On a final vist over Easter 2014, the slot on
the right was followed to a boulder. Various
he right was followed to a boulder. Various
contortions eventually allows entry to a flat-
roofed chamber $7 \mathrm{~m} \times 2 \mathrm{~m} \times 1.5 \mathrm{~m}$ high. No
way on was found from here. In 2016, the
site was "not pursued"
Reference: anon., 2014b (Easter logbook); anon
Reference: anon., 20
2016b (Easter logbook
Entrance picture : Easter 2014 \& 2016
Underground pictures :
Video :
Detailed survey
Detaine Survey
On area survey
3970: cave
Monte Vizmaya 30 T 4424744803364 (Datum
Monte Vizmaya 30142444803364 (Da
ETRS89. Accuracy code: G) Altitude 160 m
Length 6 m Depth 6 m
Area position
A totally choked, 6 m deep shaft.
Reference: anon., 2014b (Easter logbook)
Entrance pictures: yes
Underground pictures
Video
Detailed survey
Line Survey
On area survey
Survex file

3971: shaft
Monte Vizmaya 30T 4425584803869 (Datum ETRS89. Accuracy code: G) Altitude 148r
Length 22 m Depth 14 m Area position

An open, large shaft at the top -13 m long and 7.5 wide. It is completely choked at the base of the 14 m pitch. It could have been an ironstone pit

Reference: anon., 2014b (Easter logbook) Entrance pictures : yes Underground picture:
Video:
Detailed survey
Line Survey
On area su
Survex file
3972: shaf
Monte Vizmaya 30T 4425554803398 (Datum
ETRS89. Accuracy code: G) Altitude 162 m
MATIENZO UNDERGROUND site descripioions (printed 1902/2024)
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## Depth $4 m$ Area posit

A 4 m undescended shaft into possibly mined passage in extensive ironstone workings see Pliny.

Reference: anon., 2014b (Easter logbook)
Entrance pictures: yes
Entrance pictures : yes
Underground pictures :
Video:
Detailed surve
On area survey
Survex file :
x
3973: Revoltona, Cueva la Solórzano 30T 4514614802048 (Datum: ETRS89. Accuracy code: G) Altitude 207m
Length 81 m Depth 25 m
Area position
Updated 11th February 2016
The entrance is in a small depression beside the track and the cave was first documented the track and the cave was first documented
by the Grupo Espeleológico de Santander del by the Grupo Espeleológico de Santander de
C.A. Tajahierro. Their survey is published in C.A. Tajahierro. Their survey is published in
Exploraciones en Solorzano (Santander) in Exploraciones en Solorzano (Santander
Los Sótanos de la Tierra, No. 5, 1980, Los Sótanos de la Tierra
Santander (ref. 1980a).

A large, steeply descending passage on boulders narrows then opens out again, increases in height, and descends to a large chamber with a mud floor. A small hole is being enlarged with a possible p6 beyond.

A traverse up across a calcite wall leads to a hole and descending tube to an 8 m pitch ending in a sandy, mud choke.

Reference: anon., 1980a; anon., 2014b (Easter
logbook)

```
Entrance pictures :
```

```
Underground pictures: yes
```

```
Underground pictures: yes
```

Video:
Detailed survey : from anon., 1980a: 201
resurvey \& extensions - plan and elevation
resurvey \& ext
On area survey :
Survex file : yes
x

3974: shaft
Solórzano 30T 451328 4802040 (Datum: ETRS89. Accurracy code: G) Altitude 217 m
Area position

A tight shaft that requires digging.
Reference: anon., 2014b (Easter logbook)
Reference: anon., 2014
Entrance pictures : yes
Underground pictures Entrance pictures: yes
Underground pictures Video:

```
Detailed sury 
```

Line Survey :
On area surve
Survex file :
Survex file
X

3975: cave
3975: CaVe
Solórzano 30T 4511034802193 (Datum: ETRS89. Solórzano 30T 4511034802193 (
Accuracy code: G) Altitude 208m Accuracy code: G) Altit
Length 8 m Depth 5 m Area position

A steep walk into a large chamber with a small rock shelter wall at one side, halfway down. The site appears totally blocked.

Reference: anon., 2014b (Easter logbook) Entrance pictures Underground pictures : yes Video : Detailed survey Line Survey On area surve Survex file :
x
3976: cave
Solórzano 30T 451194 4802118 (Datum: ETRS89. Accuracy code: G) Altitude 213m Area position
A low crawl in an earth tube. Not a good prospect.

Reference: anon., 2014b (Easter logbook) Entrance pictures: yes Video :
Detailed surve
Line Survey : Line Survey On area surve
Survex file :

X
3977: cave
Garzón, Solórzano 30T 4508394802354 (Datum: ETRS89. Accuracy code: G) Altitude 210 m Length 1 m
Area position
A 1 m high cave in a small scar. It goes in for 1 m and is then choked with mud. MATIENZO UNDERGROUND - site descriptions (printed 19002/202
Volume $5-$ page 19

Reference: anon., 2014b (Easter logbook)
Entrance pictures : Underground pict

## Updated 14th October 2014

A drop of 1 m in a collapse area, then left for 2 m to a very tight rift. There is a good draught. It was considered to be a major undertaking when it was checked out in the summer, 2014.

Reference: anon., 2014b (Easter logbook); anon., 2014c (summer logbook) Entrance pictures
Underg
Video :
Detailed survey
Line Surve
On area survey
Survex file

## 3979: cave

Garzón, Solórzano 30T 4495754802950 (Datum: ETRS89. Accuracy code: G) Altitude 227 m Area position
This site requires the entrance enlarging. It is approximately 5 m long but is judged to be not a good prospect.

Reference: anon., 2014b (Easter logbook)
Entrance pictures :
Underground pictures
Video :
Detailed survey Line Survey
On area sur On area sur
Survex file :

X
3980: holes -
s Vega 30T 4508514795191 (Datum: ETRS89
Accuracy code: G) Altitude 313m
Depth 2m
Area position
Updated 25th October 2016
Two holes next to each other that have not been properly investigated. The western hole is a steep, grass-sided depression with a possible hole at the base; the eastern site is a hole by a limestone face almost is a hole by a limestone face almost
completely filled with a small holly bush. The completely filled with a small holly bush. The
holes have earthy bottoms. Slightly higher holes have earthy bottoms. Slightly higher
up the hill are a couple of tiny draughting up the
holes.

Reference: anon., 2014b (Easter logbook); anon.,
2016c (summer logbok) 2016c (summer logbook)

## 3981: cave

Navajeda 30T 4445844801203 (Datum: ETRS89 Accuracy code: G) Altitude 75 m
Length 2 m

Updated 8th January 2018
An obvious entrance just to the right opf the top of the eastern field boundary and at the base of the outcrop. The route goes for 2 m over rocks and fill to a $90^{\circ}$ right turn where the way on might be passable with digging. There is no draught.

Reference: anon., 2014b (Easter logbook)
Entrance pictures: April 2014

3982: cave

To the left of site 3981 and slightly higher up the bank. An unexplored, draughting, up the bank. An unexplored, draughting
small triangular entrance that has been walled up. It looks to get bigger inside, but

$$
\begin{aligned}
& \text { permission is needed to dig given its } \\
& \text { location within the field boundary. }
\end{aligned}
$$ cation within the field boundary.

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Reference: anon.,
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Entrance pictures :
Undergrou
Detailed survey
Line Survey
On area survey
Survex file
X
3983: cave
Navajeda 30T 4445494801218 (Datum: ETRS89.
Navajeda 30T 4445494801218 (
Accuracy code: G) Altitude 74 m
Area position

This cave is just over the fence on the right hand side of a small gully in the outcrop face. (This point is in line with the driveway to the house at the bottom of the field.) An unexplored, small passage running back into the hill may be difficult to spot with vegetation growing over the entrance.

Reference: anon., 2014b (Easter logbook) Entrance pictures : Underground pictures : Video :
Detailed survey Line Survey On area surve

X
3984: resurgence Monte Vizmaya 30T 4419844803279 (Datum: Monte Vizmaya 30T 4419844803279 (Da
ETRS89. Accuracy code: G) Altitude 35m Area position

A resurgence just to the east of the quarry office is within the quarry compound and so office is within the quarry compound and so is not approachable without permission. appears to be used as the quarry water
Reference: anon., 2014b (Easter logbook)
Reference: anon.,
Entrance pictures :
Underground pictures
Vnderground pic
Video:
Detailed survey
Line Survey
On area survey
On area sury
Survex file :
x

3985: Corte, Cueva del (Funky Flashing Lights Cave) Solórzano 30T 4531714802576 (Datum: ETRS89. Solorzano code: G) Altitude 110 m
Accuracy Length 14 m Depth 4 m Area position

A locked door in the hillside leads straight onto a dodgy wooden staircase. The left wal is concrete and the floor has also been is concrete and the floor has also been
levelled and is concrete. The ceiling clopes levelled and is concrete. The ceiling clopes
down to meet the floor (which has a pile of down to meet the floor (which has a pile of plastic pipes and scaffolding. The left hand wall / ceiling has strip / flashing lights as can be moved around the cave at will, past can be moved around the cave at will, past
the shelving supporting bottles of bubbly.

At the far end of the cave, a wet weather trickle cross the passage. A possible dig at the end was excavated but is a "no go".

The cave was first documented by the Grupo The cave was first documented by
Espeleológico de Santander del C.A. Espeleolorgico de Santander del C.A. Tajahierro. Their survey is published in
Exploraciones en Solorzano (Santander) in Exploraciones en Solorzano (Santande
Los Sótanos de la Tierra, No. 5, 1980, Los Sótanos de la Tierra,
Santander (ref. 1980a).

Reference: anon., 1980a; anon., 2014b (Easter ogbook)
Entrance pictures : yes
Underground pictures : yes
Video:
Detailed survey : survey from anon., 1980a: Apri 2014 (grid label should be ETRS89?) Line Survey On area survey :
Survex file : yes

X
3986: Seca, Fuente
Monte Vizmaya 30T 4428104803005 (Datum: ETRS89. Accuracy code: G) Altitude 140 m Area position

A walled up spring by the roadside.

| Reference: anon., 2014b (Easter logbook) |
| :--- |
| Entrance pictures : |
| Underground pictures : |
| Video: |
| Detailed survey : |
| Line Survey: |
| On area survey : |
| Survex file : |
| X |
| 3987: rift |
| Monte Vizmaya 30T 442408 4803105 (Datum: |
| MATIENZO UNDERGROUND - site description (printed 19/02/20? |
| Volume 5-page 1? |

## Area positio

A rift 10m up a bolted climb on a crag. It is probably too tight. Part of these crags are accessed by a via ferrata
Video :
Detailed survey
Line Survey
On area surv
Survex file

## 3990: cave

Barrio la Mina 30T 4448164800500 (Datum ETRS89. Accuracy code: G) Altitude 170 Area positio

A short through cave. The blind cave a fev metres to the left on the ledge is site 4018 .

Reference: anon., 2014b (Easter logbook) Entrance pictures Underground pictures
Video:
Detailed survey Line Survey On area su
Survex file

Beyond the door there is lots of broken Bass and the passage is then varied going from walking size to flat out. A side passage on the left (on the way in) has been opened up to easy going, keyhole-shaped passage trending down to a pool of water with a blind climb to a rift above. The main passage goes for about 200 m to a sump The sump was dived in August 2016 wh Colin Hayward - in water conditions about metre low nater conditions about a etre lower than normal - passed through a en into the sump to reach a
chamber, having laid 30 m of line. The
chamber is rouahlv 5 m each side with chamber is roughly 5 m each side with a
mud bank down the middle. Around the outside, a dry water course was observed leading from a low passage in the southwest corner. A questionable boulder bridges the passage and this may need breaking up passage and this may need

On the same day, the climb down near the On the same day, the climb down near th
entrance, previously sumped, was found to entrance, previously sumped, was found to
be a watery rift along the same line as the be a watery rift along the same line as th
streamway with routes going off in both streamway with routes going off in bot
directions. Neither way was explored.

In July 2018, the sump was found to be choked with gravel, probably due to heavy rains earlier in the year

In very dry weather (a drought), a 6person team passed through the sump sections with air space. The following account of the 91 m of passages surveyed is slightly amended from a logsages surveyed Andrew Northall (3/8/22)
The entrance was found unlocked (no key required) and the broken glass in the entrance did not present much trouble - it was sparse and easily possible to crawl around safely. The sump was located within around 15 minutes of caving and it was a sharp descent down a gravel bank into a dr crawl where the water was immediately met. There was airspace all the way through the sump and it was easily passed as a $0.5 r$ duck, followed by a large airbell, followed b) another 0.5 m duck to arrive in the chamber described by Colin Hayward. (2016).

The questionable boulder was passed by crawling under it and a mix of crawling and stooping shortly arrived at a boulder choke in a large chamber. The boulder choke was easily navigated to arrive in a dry, walking passage streamway, with all walls and ceilings coated in a thick layer of mud ceilings coated in a thick layer of mud.
Several chimneys were observed to rise up Several chimneys were observed to rise up
to higher level passage in this area, and on to higher level passage in this area, and
was climbed (although not surveyed) to was climbed (although not surveyed) to
arrive at the base of a clean washed aven o arrive at the base of a clean washed a approximately 6-8 metres in height Further passage was seen (not surveyed) to branch off from the top of this aven howeve it would require bolting and capping to access. The maximum surface elevation in this area is around 100 metres and the survey shows that these upward chimney passages and avens must come very clos to the surface, potentially limiting the
development of a useful high level system. ase were observed in the cave passages. Travelling further along the extended streamway, a junction chamber was reached with two ways on. The first, a flat out squeeze in the right hand wall (likely sumped when the streamway is flowing), required digging to access and was quickly followed by another flat out squeeze which also required digging. A small chamber was reached with a tight way on up a mud slope reached with a tight way on up a mud
(needs digging in mud), or a too tight (needs digging in mud), or a too tight
stream passage (needs capping). We turnes stream passage (needs capping). We turnec
around here and no noticeable draught was felt.

Back at the junction chamber, the other way on was a tight stream passage which was blocked by a long, thin boulder. This would require either hammering or capping but once removed, the passage is large enough (at least initially) to access

Link to entry in the Cave Diving Sump Index.

Reference: anon., 1980a; anon., 2014b (Easter logbook); anon., 2016 c (summer logbook); anon.,
2018c (summer logbook); anon., 2022c (summer 2018c (su
logbook)
Entrance pictures : Easter 2014
Underground pictures : Easter 2014 : August
2016 2016
Video : dive August 2016 (YouTube)
Detailed survey : from anon., 1980 a : pdf April
2014 (revised grid ref 2018) : sump area sketches, August 2016 : pdf August 2022
Line Survey: Line Survey
On area survey:
Survex file : 2022

## X

3992: Invitado, Cueva de
Solórzano 30T 4531684803979 (Datum: ETRS89. Accuracy code: U) Altitude 100 m Length 18 m
Area position

This site has been explored and surveyed by the Grupo Espeleológico de Santander del C.A. Tajahierro. Their survey is published in
Exploraciones en Solorzano (Santander) in Exploraciones en Solorzano (Santande
Los Sótanos de la Tierra, No. 5, 1980, Santander (ref. 1980a). Unfortunately the entrance position (along with many others in the publication) is very unreliable although attempts have been made to alter the given Madrid grid reference through a Greenwich grid reference to an ETRS89 grid reference,
seen above. The cave is in the Tanaguillo MATIENZO UNDERGROUND - site descriptions (printed 1910022024 $\begin{gathered}\text { Volume 5-page 19 }\end{gathered}$
area of Solórzano

This site has been explored and surveyed by the Grupo Espeleológico de Santander del the Grupo Espeleologico de Santander del C.A. Tajahierro. Their survey is published in
Exploraciones en Solorzano (Santander) in Exploraciones en Solorzano (Santander Los Sótanos de la Tierra, No. 5, 1980, Santander (ref. 1980a). Unfortunately the entrance position (along with many others in the publication) is very unreliable although attempts have been made to alter the giver Madrid grid reference through a Greenwich grid reference to an ETRS89 grid reference, seen above. The cave is in the Tanaguillo area of Solórzano
The site, named by the GES, has not yet been located.

Reference: anon., 1980a; anon., 2014b (Easter logbook)
Entrance pictures

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Underground picture
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Video
Detailed survey : from anon., 1980a
Line Survey
On area surv
Survex file :

## 3994: Dos Casas, Sime

 Solórzano 30T 4516604804020 (Datum: ETRS8 Accuracy code: U) Altitude 135 mLength 20 m
Area position

Updated 24th May 2022
This site has been explored and surveyed by the Grupo Espeleológico de Santander del C.A. Tajahierro. Their survey is published in Exploraciones en Solorzano (Santander) in Los Sótanos de la Tierra, No. 5, 1980,
Santander (ref. 1980a). Unfortunately the
Santander (ref. 1980a). Unfortunately the entrance position (along with many others in the publication) is very unreliable although attempts have been made to alter the given Madrid grid reference through a Greenwich grid reference to an ETRS89 grid reference, seen above. The shaft is in the El Rebollar area of Solórzano
The site, named by the GES, has not yet been located but there is a faint possibility it may be site 5188

Updated 14th October 2014
This site has been explored and surveyed by the Grupo Espeleológico de Santander del C.A. Tajahierro. Their survey is published i Exploraciones en Solorzano (Santander) in Los Sótanos de la Tierra, No. 5, 1980, Santander (ref. 1980a). Unfortunately the Santander (ref. 1980a). Unfortunately the entrance position (along with many others in
the publication) is very unreliable although the publication) is very unreliable although attempts have been made to alter the giver
Madrid grid reference through a Greenwich Madrid grid reference through a Greenwich grid reference to an seen above. The shat is in the El Rebolla area of Solórzano, apparently very close to site 3994.
The site, named by the GES, has not ye been located

In the summer, 2014, because of the grid reference above, this site was initially confused with, what later became, site

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\begin{array} { l } { \text { Video:} } \\ { \text { Detailed} } \end{array}
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3996: Llana, Cueva de la
Solórzano 30T 454063 4803356 (Datum: ETRS89.
Accuracy code: U) Altitude 230m
ength 71 m
rea position
This site has been explored and surveyed by
the Grupo Espeleológico de Santander del
C.A. Tajahierro. Their survey is published in
Exploraciones en Solorzano (Santander) in
Los Sótanos de la Tierra, No. 5, 1980,
Santander (ref. 1980a). Unfortunately the
Santander (ref. 1980a). Unfortunately the
entrance position (along with many others in
the publication) is very unreliable although
attempts have been made to alter the given
attempts have been made to alter the given
Madrid grid reference through a Greenwich
grid reference to an ETRS89 grid reference,
seen above. The shaft is in the La Llana area
of Solórzano, next to the road.
The site, named by los lugareños, has not
yet been located.
Reference: anon., 1980a; anon., 2014b (Easter
Reference
logbook)
logbook)
Entrance pictures
Underground pictures
Underg
Video :
Detailed survey : from anon., 1980a
Line Survey
On area surve
Survex file :
X
3997: Cacoles, Cueva de los
So97: Cacoles, Cueva de los

Accuracy code
Area position
This site has been explored and surveyed by
the Grupo Espeleológico de Santander del
the Grupo Espeleologico de Santander del
C.A. Tajahierro. Their survey is published in
Exploraciones en Solorzano (Santander) in
Exploraciones en Solorzano (Santander) in
Los Sótanos de la Tierra, No. 5, 1980,
Santander (ref. 1980a). Unfortunately the
Santander (ref. 1980a). Unfortunately the
entrance position (along with many others in
the publication) is very unreliable although
attempts have been made to alter the given
Madrid grid reference through a Greenwich
grid reference to an ETRS89 grid reference,
seen above. The shaft is in the "Elguera"
(Helguera) area of Solórzano.
(Helguera) area of Solorzano.
The site, named by the GES, has not yet
been located.
Reference: anon., 1980a; anon., 2014b (Easter
logbook)
Entrance pictures
Underground pictures
Video :
Detailed survey : from anon., 1980a
Line Survey :
Line Survey:
On area surve
Survex file:
Survex file
x
3998: sink
Barrio la Mina 30T 4447174800612 (Datum
ETRS89. Accuracy code: M) Altitude 130 m
Area position

In a valley by a field boundary, this site is an intermittant stream sink that would dig. The water sinks against a rock face.

Reference: anon., 2014b (Easter logbook) Entrance pictures :

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Video:
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Detailed survey :
Line Survey
On area survey :
Survex file :
x

3999: Pitona, Torca

This site has been explored and surveyed by the Grupo Espeleológico de Santander del C.A. Tajahierro. Their survey is published in Exploraciones en Solorzano (Santander) in Los Sótanos de la Tierra, No. 5, 1980, Santander (ref. 1980a). The site has been located but not explored by the Matienzo Caves expeditions.

Reference: anon., 2014b (Easter logbook) Entrance picture : yes
Underground pictures Underground pictures Video:
Detailed survey : from 1980a Line Survey On area surve
Survex file:

X
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024

4000: Embalse, Cueva del Solórzano 30T 4531774802632 (Datum: ETRS89 Solórzano 30T 453177 4802632 (
Accuracy code: G) Altitude 104 m Length 154 m Area positior

This site has been explored and surveyed by the Grupo Espeleológico de Santander de C.A. Tajahierro. Their survey is published ir Exploraciones en Solorzano (Santander) ir Los Sótanos de la Tierra, No. 5, 1980 Santander (ref. 1980a). The site has been located but not recently explored by the Matienzo Caves expeditions.

The current entrance to the cave (GPS'd above) is not the same as the original one However, the current entrance is blocked with a pile of dead animals. Site 4019 is nearby. ea
At Easter 2007, Pete Smith was shown the current cave entrance and he "got in from the opposite side of the stream passage" shown on the modified survey. It is uncertain if the "upstream" and "downstream" pools are part of a streamway.

