4001: Injanas 1, Cueva de las Hoznayo 30T 4426024804798 (Datum: ETRS89. Length 304m includes Cueva de las Injanas 2 (site 4444)

Area position
Updated 19th February, 7th May 2016
A cave first looked at by the Matienzo Caves Project in October 2009 and called Cueva Picadon. A sketch made at the time is shown below.
In their archaeology of the Miera, Chuchi and Emilio call caves here Cueva de las Injanas I, II and III (also called "cueva de los Picardos")
Cueva de las Injanas I and site 4444 (Cueva de las Injanas II) were explored and (Cueva de las Injanas II) were explored
joined together at Easter 2016 (shown joined together at Easter
together on the survey).
ogether on the survey). he system runs just inside the hill and carries drainage from the adjacent fields and probably sewage from a nearby property.
The 5 m wide $\times 3 \mathrm{~m}$ high main opening into Cueva de las Injanas I immediately meets 2 smaller entrances coming in from the north. A stream is met which immediately sinks in mud and rubble just inside the main entrance. Just past the northern entrances, two shafts come in from the surface and walking upstream and clambering over boulders reaches climbs on the northside into a small upper series where daylight is visible through another opening. About 35m in, a sink in mud on the left can capture all the stream water in low flow. Continuing upstream, a large cross rift is met and anastomoses up a slope to the north. The main stream then becomes lower through a pool and, some 60 m from the entrance, a pool and, some 60 m from the entrance, a low inlet comes in from the south. This has the odour of sewage about it and has not been pushed beyond 20 m where it comes 70 cm high (and about 50 m from a house on op of the hill)
The main stream is now stooping and sideways crawling until it meets a hole in the roof which is the over-tight link into Cueva de las Injanas 2 (site 4444). The stream continues very low until it, presumably, emerges on the surface catching the water from the fields that slope down to the cliff face at Injanas 2.
About 15 m back from this link, a short crawl on the west side of the streamway emerges in a roomy chamber. A narrowing rift continues until a constriction through into passage going left and right. To the right, a narrow rift drops down to water. To the left, a large 5 m high rift is blocked by a wall of boulders with a small chamber at low evel. Two routes each side of the carbide dump (one a climb and crawl through, the dump (one a climb and crawl through, the other a narrow rift) join up and the passage then becomes small over a mud floor until a
small hole is reached that goes through to water.

Reference: folder; Ruiz Cobo J and Muñoz
Fernández E, 2013; anon., 2016b (Easter logbook) Entrance pictures : April 2016 Underground pictures:April 2016
Video : over-tight squeeze from Injanas 2 to Injanas 1 (YouTube)
Detailed survey : sketch (wrongly named?) : Injanas: Injanas 2 : Injanas 3 (surveys from Ruiz
Cobo J and Muñoz Fernández E, 2013, pp 377 - 378 Cobo J and Muñoz Fernández E, 2013, pp 377-378 Easter 2016 - svg file : pdf file
Line Survey : Line Survey Survex file: yes X
4002: Santiago, Cuevas de Solórzano 30T 4526704803612 (Datum: ETRS89 Accuracy code: U) Altitude 75 m
Length 54 m
Ar
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, Los Sotanos de la Tierra, No. 5, 1980,
Santander (ref. 1980a). Unfortunately the Santander (ref. 1980a). Unfortunately the
entrance position (along with many others ii 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, grid reference to above. The cave is in the Tanaguillo seen above. The cave is in the Tanaguil
area of Solórzano. area of Solórzano.
The site, named by the GES, has not yet
been located but it is "on the right at the been located but it is "on the right at th end of the road leaving the Town Hall

4003: Pantalla, Cueva de la Riolastras 30T 4559074803128 (Datum: ETRS89 Riolastras 30T 4559074803128 ([
Accuracy code: U) Altitude 164 m Accuracy cod
Length 60 m Area positio

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 eótanos de la Tierra, No. 5, 1980 Los Sotanos 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 giver Madrid grid reference through a Greenwich grid reference to an ETRS89 grid reference, seen above.
The site, named by the GES, has not yet been located.

Reference: anon., 1980a; anon., 2014b (Easter logbook)
Entrance picture

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Undergr
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Video
Detailed survey : from anon., 1980a
Line Survey
On area surv
Survex file :
Survex file

4004: Palomas, Cueva de las Riolastras 30T 4542314803976 (Datum: ETRS89 Accuracy code: G) Altitude 178 m Length 146 m Depth 3 m Area position

Updated 17th May, 20th September 2019; 10th January, 2020; 20th June 2021; 22na May 2023

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, Los Sotanos 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 site, named by los lugareños, was eventually located at Easter 2019.

The cave was surveyed by the MCP at the The cave was surveyed by the MCP
end of April 2019. Entering the cave immediately passes under a shaft to the surface. The left hand passage leads to a significant bat roost at the end of the cave Bat detectors have been placed and removed (August 2020)

Archaeological remains have been discovered in the cave. In 1908 Lorenzo Sierra found paeleolothic material and medieval ceramics.

In June 2021, the Quebraduras windfarm proposals were published with generator positions, access roads and power line tc Fuente las Varas. A 10-page Word doc was written outlining possible effects to the caves. This site (4004), close to generator QU-01, has bats and is an archaeology site Possible threats include vibrations from explosions during excavation and during building works. Rotating blades also kill bats.

## Bat information

Date: $3 / 4 / 2023$
Evidence of occupation (only):

On area survey
Survex file : Ap

4005: Francés, Sima del
Riolastras 30 T 4555864802297 (Datum: ETRS89. Accuracy code: U) Altitude 217 m
Length 13 m Depth 13 m Length 13 m Depth 13 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 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 site, named by los lugareños, has not yet been located but it is apparently in the yet been located but it is
same area as site 4004 .

Reference: anon., 1980a; anon., 2014b (Easter
logbook) ogbook)
Entrance picture
Video :

Detailed survey : from anon., 1980a Line Survey : On area surve Survex file :
x
4006: Castaño, Sima del
Riolastras 30T 456279 4805069 (Datum: ETRS89. Accuracy code: U) Altitude 318 m Length 12 m Depth 12 m

This site has been explored and surveyed by the Grupo Espeleológico de Santander de 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 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. (In this case, the site appears to be well outside the 2014 permit area). The site, named by the GES, has not yet been located - but it is apparently very difficult to find.

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 in Exploraciones en Solorzano (Santander) in Los Sótanos de la Tierra, No. 5, 1980, Santander (ref. 1980a).

The cave was re-explored and re-surveyed at Easter 2014. A large open entrance leads to an entrance chamber used by animals. the passage gradually gets smaller until a passage widens, it slopes up and comes to the head of a pitch starting as a slope and the head of a pitch starting as a slope and
then becoming a vertical p8. A comfortable then becoming a vertical p8. A comfortable walking passage descends and ends, with a lower passage which chokes and a tricky climb to a ramp that also soon finishes. A
dig just before the p8 was excavated as an dig just before the p8 was excavated as an
upward slope into a chamber and a small, upward slope int
draughting slot.
According to the GES description, there are three other shafts in the vicinity, probably sites 4008, 4009 and 4010.

## Reference: anon., 1980a; anon., 2014b (Easter <br> logbook)

Entrance picture : yes
Underground pictures : yes
Underg Detailed surv:
Line Survey : Line Survey: On area survey :
Survex file : yes
 Riolastras 30T 4561994803002 (Datum: ETRS89 Accuraty code:
Length 24 m Depth 10 m Area position

This site has been explored and surveyed by the Grupo Espeleológico de Santander del the Grupo Espeleologico de Santander ded in
C.A. Tajahierro. Their survey is published in C.A. Tajahierro. Their survey (Santander) in
Exploraciones en Solorzano (Sant Los Sótanos de la Tierra, No. 5, 1980, 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 site, named by the los lugareños, has not yet been located - but it is supposed to be in the vicinity of sites 4007, 4009 and 4010.

## Referenc

A cave in a large depression. An excavated slot drops into a rift. The good draught (on warm day) seems to come from a slot in the roof.

Reference: anon., 2014b (Easter logbook) Entrance pictures : yes Underground pictures Video:
Detailed survey : sketch Line Survey Survex file :

X
4013: cave
4013: CaVe
El Naso 30T 451633 4796239 (Datum: ETRS89. El Naso 30T 4516334796239 (Dat
Accuracy code: A) Altitude 360 m Accuraty cod Length 6 m
Area position

A cave on a strong joint at the eastern side of the slip feature, just above where via ferrata rungs climb up the left hand wall ferrata rungs climb up the left hand wall. The passage constricts th
small, calcited chamber.

Reference: anon., 2014b (Easter logbook)
Entrance pictures: yes Entrance pictures : yes nderground pictures : yes

```
Video : Detailed s
```

Line Survey : On area surve Survex file :

## x

4014: dig
Navajeda 30 T 4446434800926 (Datum: ETRS89. Accuracy code: G) Altitude 105 m
Area position Area position

This site is in the base of shallow shakehole on a hillside. A small hole in boulders is over 2 m deep but it would be a serious dig to progress.

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Reference: anon., 2014b (Easter logbook)
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Entrance pictures :
Underground pictures
Video:
Detailed survey
Line Survey
On area survey
Survex file :
X

## 4015: shaft

 TrillosDepth 6 Depth 6 m

An undescended, large open shaft, about 6 m deep with sloping sides in the vacinity of 6 m deep with sloping sides in
site 3938 . Needs positioning.

Reference: anon., 2014d (autumn logbook) Entrance picture

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

4016: dig
La Secada 30T 4528014797789 (Datum: ETRS89. Accuracy code: A) Altitude 156 m Length 4 m Area position

Updated 14th October 2014; 23rd May, 5th October 2015

This hole is about 20 m from and level with passages off the Big Chamber Somewhere Near the Entrance in Cueva de Carcavuezo. The site was located by a surface survey from Carcavuezo entrance. Digging in the summer 2014 appeared to reach a back wall but there is still a cool draught. Further digging the following Easter suggested that excavating to the right may be under a excavating to th
detached block.

Reference: anon., 2014b (Easter logbook); anon., Reference: anon., 2014b (Easter logbook); anon
2014c (summer logbook); anon., 2015b (Easter logbook); anon., 2015c (summer logbook) Entrance pictures : yes

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Video:
```

```
Detailed surve
```

Line Survey
On Survey :
Survex file : mainly surface survey

4017: Hoya, Pozo de la
MATIENZO UNDERGROUND - site descriptions (printed 19002/202 Volume 6 - page 5
 Length 137 m Depth 17 m Vertical Range 23 m
Area position Area position

Updated 5th June 2014; 7th May, 6th December 2016

A cave previously surveyed by Spanish cavers on the north side of the motorway. There are 3 entrances.

## This is an old phreatic cave with

archaeological interest that has been partly truncated by erosion of the surface. Approaching from the west out of the
adjacent pasture the first entrance (Choke) is seen on the right under a small rock face. This is a tight passage partly blocked by a large boulder followed by a slope down to the main E-W passage. The second entrance
(Tyre) is only a few meters to the east and (Tyre) is only a few meters to the east and has a number of tyres dumped. It is possible to climb over these but care is needed as immediately below is a drop into the lower passage going to a "sump"
The main entrance (Rift) is further to the East and uphill to the right. This is a climb down to a large passage some 2-3 m wide and 4 m high that slopes down to a choke with a voice connection through boulders to the passage below near where a crawl enters the "sump" chamber. On the walls of enters the "sump" chamber. On the walls
this main passage is evidence of infill and this main passage is evidence of infill and
false floors, with bones calcited into the fill, false floors, with bones calcited into the
further old bones are found in the floor. To the north at the bottom of the entrance To the north at the bottom of the entran lope from the Rift Entrance is an upward sloping passage which meets a drop of 2 m just below Tyre Entrance, this drop continues to a downward dipping crawl to meet a chamber formed on the same slopping angle with more bones at the base and calcited blockage at the west and top. A sloping flat out crawl leads down to the "sump" chamber. The "sump" may be just a pool at the area water level; it has not been dived to see if there is any passage below. To the east of this chamber is a passage running under the main passage with a roof that is the calcited floor of the passage above with calcited bones embedded in the roof. To the east of the entrance ramp a walking passage that slopes up with some old cut steps in the mud floor after which it splits into a high and low passage that meet splits into a high and low passage that mee
just before a low boulder choke that could just before a low boulder choke that could dig with caps etc. There are two rifts going
off the higher passage but these both choke. off the higher passage b
(Description by Phil Papard)

Link to entry in the Cave Diving Sump Index.

Reference: anon., 2014b (Easter logbook); anon 2016b (Easter logbook); anon., 2016c (summer 2016b (Easter logbook),
logbook)
Entrance pictures : Easter 2014 Entrance pictures : Easter 2014
Underground pictures : Easter 2014 : Easter 2016 Video :

4018: cave
Barrio La Mina 30T 4448174800500 (Datum: Barrio La Mina 3014448174800500 (Datu
ETRS89. Accuracy code: G) Altitude 170 m Area position

A blind cave in an outcrop, a few metres t A blind cave in an out
the left of site 3990 .

Reference: anon., 2014b (Easter logbook) Entrance pictures Underground pictur
Video:
Video : Line Survey On area survey Survex file

4019: cave
Solórzano 30T 4531954802666 (Datum: ETRS89. Accuracy code: G) Altitude 113m
Length 159 m Depth 23 m Vertical Range 30 m Area positior
"After we had been abandoned by all othel itinerant cavers, we walked about a bit and found a new site.

Site 4019 has developed in steeply dipping beds. From the small entrance, a steep slope down on loose rock passes an enlargement with a choked passage up a slope on the left and also an excavated draughting hole. Straight ahead, the slope draughting hole. Straight ahead, the slope continues through an excavated tight drop and slope to a sump. This has been dived by Jim Lister through a 1.5 m tight duck to body-sized tube that rises steeply. A silt before the passage dips down to a tight MATIENZO UNDERGROUND site descripioions (printed 19/02/2024) Volume 6 - page 6
bend and a gravel floor, where the route

On a subsequent trip, the draughting hole on the left after the entrance slope was opened up. A tight section leads to a traverse over a hole and then a calcite
blockage. This was removed to give a tight blockage. This was removed to give a tig squeeze over another hole (which leads
down to the far side of the sump) to a body down to the far side of the sump) to a bo passage. This goes left and right, choking at both ends. Many tree roots hang from the roof and evidence of animals can be seen

The sump pool, dived to the east, lies about 30 m east of the inlet stream in Cueva del Embalse (and possibly at about the same altitude?)

Link to entry in the Cave Diving Sump Link to

Reference: anon., 2014b (Easter logbook) Entrance picture : yes ideo: dataile Line Survey On area survey Survex file : yes

X
4020: shaft
Navajeda 30 T 4447224800518 (Datum: ETRS89. Accuracy code: G) Altitude 162 m
Area position

A blocked shaft in the base of a shallow shakehole with a small tree. Depth?

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Reference: anon.,
Entrance: picture : 2014b (Easter logbook)
```

Underground pictures
Video:
Detailed surve
Line Survey
On area surve
Survex file
X
4021: shaft
4021: Shaft 4800523 (Datum. ETRS89 Accuracy code: G) Altitude 154 m Area position

Below the outcrop containing the sites 3990 and 4018 , at the bottom of the slope, is what may be a draughting shaft blocked by what may b

```
Reference: anon.,
```

Reference: anon., 201
Entrance picture :
Underground pictures
nderground pictu
Video :
Line Survey:
On area survey :
Survex file
X
4022: shaft
El Naso 30T 4510894796891 (Datum: ETRS89.
Accuracy code: G) Altitude 413 m
Length 8 m Depth 5 m
Area position

Updated 24th May 2017; 12th May 2018
On the side of a large depression with a number of interesting features (but probably sandstone collapses). This site is about 5 m deep with a $3 \mathrm{~m} \times 2 \mathrm{~m}$ top. The hole looks choked
In April 2017, a 3 m pitch through brambles landed on what appeared to be a choke. However, a small, draughting hole was found which was subsequently capped out to a 2 m climb down into a small chamber. A tight crawl leads off to a slope which is currently blocked by a too-large which is currently blocked by a too-lare
rock. The crawl continues with a cold rock. The
draught.

Further capping took lace at Easter 2018 Further capping took lace at Eas
and it is seen as a long-term dig.
Reference: anon., 2014b (Easter logbook); anon., 2017b (Easter logbook); anon., 2018b (Easter Entrance pictures : Easter 2014 : Easter 2017
Underground pictures : Easter 2018 Video : first exploration, Easter 2017 (YouTube) : Progress by Easter 2018 (YouTube) Progress by Easter 2018 (YouTube)
Detailed survey : sketch elevation Line Survey On area survey Survex file :

X
4023: sink
San Antonio 30T 4470924802919 (Datum ETRS89. Accuracy code: M) Altitude 106 m Area position

Fifty metres to the east of site 4030, and in the same depression, is a stream sinking the same depression,
against an earth bank.

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

Reference: anon., 2014b (Easter logbook)
Entrance pictures : Entrance pictures

Reference: anon., 2014b (Easter logbook); anon.,
2016b (Easter logbook) Entrance pictures : Entrance pictures : Underground pictures Video : Detailed survey Line Survey Line Survey: Survex file : X
4030: caves - 2 San Antonio 30T 4470424802919 (Datum ETRS89. Accuracy code: A) Altitude 97 m Area position

Updated 7th December 2014
Two small solution tube caves in the base of a small cliff. Both are too tight. The GPS reading was taken 40 m south of the site then adjusted to give the above grid then adju
It has been suggested that the holes could It has been suggested the
feed site $4098,460 \mathrm{~m}$ away.

Reference: anon., 2014b (Easter logbook); anon., 2014d (autumn logbook) Entrance picture : yes Video :

```
Detailed
```

Line Survey:
On area surve
Survex file
x

## 4031: shaft

Navajeda 30T 4439734800537 (Datum: ETRS89. Accuracy code: G) Altitude 187 m Length 8 m Depth 8 m Area position

An open hole next to the track explored to a blockage about 8 m down.

```
Reference: anon., 2014b (Easter logbook)
Reference: anon.,
Underground pictures
Video:
Detailed sur
Line Survey :
On area sur
x
4032: shaft
Navajeda 30T 4439324800653 (Datum: ETRS89.
Navajeda 301: G) Altitude 180m
Length 4m Depth 4m
Area position
```

A 4 m deep rift in the bushes among smaller rifts on the side of a hill. This area is very difficult to search due to the terrain of giant clints running up/down hill with deep, thorn filled grikes.

Reference: anon., 2014b (Easter logbook)
Reference: anon., 20
Entrance picture :
Entrance picture :

## Video:

$$
\begin{aligned}
& \text { Detailed surv } \\
& \text { Line Survey : } \\
& \text { On area surv }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Line Survey: } \\
& \text { On area survey }
\end{aligned}
$$

Survex file :

4033: shaft
Navajeda 30T 4438134800612 (Datum: ETRS89. Accuracy code: G) Altitude 202 m Accuracy code: G) Altituc
Length 10 m Depth 10 m Area position

Updated $6^{\text {th }}$ May 2016
An 8 m shaft to a roomy base, with a further 1.5 m drop. There is no way on.

Reference: anon., 2014b (Easter logbook); anon., 2016b (Easter logbook)
Entrance picture

```
Video:
```

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

4034: shaft
Navajeda 30T 443850 4800589 (Datum: ETRS89. Accuracy code: G) Altitude 210 m
Depth 4 m Depth $4 n$
Area position
Updated $7^{\text {th }}$ May 2016
The entrance to a 4.2 m shaft is too small to descend without moving/capping surrounding rocks which would then make thehole difficult to cover.

Reference: anon., 2014b (Easter logbook); anon., 2016b (Easter logbook) Entrance picture : Easter 2016 Underground pictures
Video : Video:

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024

## Line Surve On area

## 4037: resurgence

## 4039: shaft

Quebraduras 30 T 4533084803011 (Datum
ETRS89. Accuracy code: G) Altitude 203 m ETRS89. Accuracy code: G) Altitude 203 m Length 10 m
Area position

Updated 21st May 2022
An undescended shaft located where
eucalyptus trees have been cut, close to site 4038. It was not descended in April 2022 as 4038. It was not descended in
it was blocked by car sections.

Reference: anon., 2014b (Easter logbook); anon.,
2022 b (Easter logbook)
Entrance picture : 2014, 2022
Underground pictures:
Video :
Detailed survey
On area sur

```
Survex file
```

X

## 4040: rift

解 Accuracy code
Area position

A small rift which is not a good prospect.

## Reference: anon., 2014b (Easter logbook) Entrance picture

 Underground pictures Video:Detailed surve Line Survey On area surv
Survex file : X
4041: shaft
Navajeda 30T 4446524800663 (Datum: ETRS89 Accuracy code: G) Altitude 124 m Length 88 m Depth 16 m Area position

Updated 14th October 2014; 9th January 2018

A shaft under a pallet in a newly planted stand of trees. It had a narrow section before the apparent bottom and this was opened up in the summer 2014.

The entrance shaft is 7 m deep to a floor o ebris and sand. A rift to the northwest had boulders blocking the way after 5 m with a cold draught emerging.

Half way to this choke a passage goes back almost southeast to the head of another drop. The top of this has been enlarged to another drop of 4 m . At the base a possible way to the south is blocked by boulders and is too tight with a sligh draught.

The rift to the northwest was opened up through an eyehole to a small pot. At the base, a crawl leads to two ways off: one wa choked with calcite with a small hole which sounded 3 to 4 m deep; the other leads into a more interesting area. A steeply sloping chamber has lots of rock pendants,
formations and bones, including a nearly complete, small sheep skeleton.
There are two possible, draughting ways on at the low side of the chamber. One route ends at a small boulder choke with a strong draught coming down. This was excavated upwards to allow standing up and a view into passage. Immediately, a short side passage on the right has pig/boar remains and a sheep skull. A walking height passage continues with lots of calcite above and small tracks (cat?) on the floor. A climb up onto a large boulder reaches an end - a steep gully with lots of loose rocks diagonally forward on the left. The draught is still very evident, apparently coming dow the gully. Clearing the just-ready-to-fa rocks would be an extremely dodgy operation. Bat droppings were noticed in an alcove near the base of this gully.

The gently draughting way on at the left bottom side of the main chamber leads into a small chamber with a slot down on the far wall. This was dug to allow kneeling on the floor where a possible low way off is detected. A lot of work is required here to see what is happening

The small passage out of the decorated
The small passage out of the decorated
chamber has been pushed into a low, small chamber has been pushed
chamber with no way on.
The continuing passage over the pot has been inspected but further progress was stopped by an awkward protruding rock edge. There is no draught in this passage.

A site up valley from 4041: "Just over fence from field there was a depression with an excellent rock wall on W side. Looks as though it it takes water when wet and ought to be a likely (major?) dig." (This can be to be a likely (major?) dig." (This can be
separated out when correctly positioned.)

Reference: anon., 2014b (Easter logbook); anon., 2014c (summer logbook)
Underground pictures : before the major capping Underground pictures : before the major capping
work: summer 2014
Video : formation \& bones, summer 2014 (YouTube Detailed survey : draft survey Line Survey Survex file: yes

X

## 4042: Riocueva, Cueva

## (Recueva, Cueva)

Hoznayo 30T 4432664805537 (Datum: ETRS89 Accuracy code: G) Altitude 27 m
Length included in Torca de Cañaos, site 4043 Area position: A Google search for this site Riocueva, Cueva+Hoznayo)

Cañaos system. (There are, or were, 4 entrances, documented in the Torca Cañaos description.) This gated entrance is on the outh side of a steep gully running down to the río Aguanaz. It is possibly best approached straight down a field opposite a house by the main road to the boundary where a short jungle bash and climb down reaches the gated entrance. The other route is along an overgrown path to the east and north which drops down to the entrance The resurgence complex is below.

| code | name | altitude <br> $(\mathbf{m})$ |  |
| :--- | :--- | :---: | :---: | :---: |
| 4043 | Torca de los <br> Cañaos | 55 | The 14 m deep |
| 4084 | shaft (capped) | 70 | This has only be <br> the floor of an |
| 4042 | Cueva <br> Riocueva | 27 | The green-gate <br> "middle entranc |
| 4085 | cave | 21 | The "bottom en |
| 4086 | cave | 21 | Hole just above |
| 4087 | resurgence | 18 | Flood resurgenc |
| 4088 | resurgence | 13 | A number of pla |

The cave system has been mainly explored and documented by Spanish cavers Published articles about exploration can be found in at least Cuadernos $V-V I$ and Cantabria Subterránea vol. 1 and these articles need putting in the bibliography and below. The surveys from these articles are found below, although they are now incomplete. A 1983 video on YouTube shows the Riocueva passage and the route down to the stream, then the return.

Archaeological work has been carried out in this entrance, most recently in 2014. A blog for the Mauranus Project has a number of details, including pictures from 26/10/2014 when the Matienzo Caves Project team entered through the Riocueva entrance to survey the links through to Torca de los Cañaos. A summary of finds can be found in Ruiz Cobo J and Muñoz Fernández E 2013 pp 381-383. Again, more details will appear here from archaeological references in due course.

As entry to the system cannot normally be gained through this Cueva Riocueva entrance, and to keep the description of the passages under one heading, all the Matienzo Caves Project exploration in, and passage descriptions of the system ar documented in site 4043, Torca de los
donster Cañaos. Only photos and video taken in the Riocueva entrance passage, the western
Rand Riocueva entrance passage, the westerr Galería del Tembleque and th
streamway are linked below.

Link to entry in the Cave Diving Sump Index.

Reference: Meijide Calvo M, 1982; Gutiérez Cuenca
Enrique and Hierro Gárate José Ángel 2012; Ruiz Enrique and Hierro Gárate José Ángel, 2012; Ruiz
Cobo J and Muñoz Fernández E, 2013; anon. 2014b Cobo J and Muñoz Fernández E, 2013; anon., 2014b
(Easter logbook); anon., 2014c (summer logbook); (Easter logbook); anon., 2014c (summer logbook);
anon., 2014d (autumn logbook); Hierro Gárate José Ángel y Gutiérrez Cuenca Enrique, 2016a; Hierro 2016b
Entrance pictures : yes Underground pictures : autumn 2014 Video : 1983 video (YouTube) : autumn 201 (YouTube)
Detailed survey: detailed entrance survey from
Ruiz Cobo J and Muñoz Fernánd Ruiz Cobo J and Muñoz Fernández E, 2013,p381 Subterránea vol. 1 :
incomplete, draft pdf Easter 2014 : after summer
2014 : after autumn 2014-svg - pdf 2014 : after autumn 2014 - svg - pdf
Line Survey: Line Survey:
On area survey :
Survex file : See Torca de los Cañaos Passage direction rose diagram: 1/7/2018

## 4043: Cañaos, Torca de los

 Villaverde de Pontones 30T 4435524805709(Datum: ETRS89. Accuracy code: A) Altitude $55 r$ Length 5156 m (including the listed sites below) Depth 34 m
Area position : A Google search for this site (Cañaos,
Torca de los+Villaverde de Pontor Torca de los+Villaverde de Pontones)

Updated 15th, 22nd October, 2nd, 14th, 24th November, 7th December 2014; 7th October 2015; 19th February 2016; 1st July 2018; 24th May 2021

This is one entry point into the RiocuevaCañaos system. There were at least 4 entrances and these are included in the table below. A new detailed survey was "completed" when the cave was surveyed through to Cueva Riocueva, site 4042 in October 2014 then pushed upstream in August 2015. There are still (October 2015) August 2015 . There are still (October
a couple of leads to push and survey.

MATIENZO UNDERGROUND site descriptions (rinted 19022024 Volume 6 - page 12

|  |  | (m) |  |
| :--- | :--- | :---: | :---: |
| 4043 | Torca de los <br> Cañaos | 55 | The 14m deep |
| 4084 | shaft (capped) | 70 | This has only <br> the floor of an |
| 4042 | Cueva <br> Riocueva | 27 | The green-gat <br> "middle entrar |
| 4085 | cave | 21 | The "bottom e |
| 4086 | cave | 21 | Hole just abov |
| 4087 | resurgence | 18 | Flood resurger |
| 4088 | resurgence | 13 | A number of p |

Torca de los Cañaos is in a large, vegetated depression with a small trickle (in dry weather) collecting and falling into the impressive entrance shaft. The grid reference and altitude (to the bolts at the top of the pitch) is the result of surface surveying (batch 14-19). An estimate after GPS reading outside the depression was 301 04435464805707

The cave has been explored to a large extent and documented by Spanish cavers. Published articles about exploration can Cantabria Subterránea vol. 1 (pp 274 61 Mb download) and these articles need 61 Mb download) and these articles need putting in the bibliography and below. The surveys from these articles are found below, although they are incomplete. The Cantabri
Subterránea article hints at a number of Subterránea article hints at a number of passages not survey

Archaeological work has been carried out in the Cueva Riocueva entrance passage, observed in 2014 and that cave is gated. Again, more details will appear from archaeological references. A blog for the Mauranus Project has a number of details, including pictures from 26/10/2014 when the Matienzo Caves team entered through
the Riocueva entrance to survey the links the Riocueva entrance to survey

As entry to the system cannot normally gained through Cueva Riocueva, all Matienzo Caves Project exploration in the system is documented on this Cañaos page The Cantabria Subterránea article mentions two rescues that have occurred in the system. In 1983, a fall down a pot in the the system. In 1983, a fall down a pot in th
Galería Mabe resulted in various fractures. Galería Mabe resulted in various fractures.
In 1988, a caver fell at the Paso del Diablo, In 1988, a caver fell at the Paso del Diab
in Galería Mabe, suffering bruising and a in Galería M

## Entrance shaft

This is documented as 18 m deep but, when laddered through a narrow notch on the shaft lip, just to the right of the water trickle, it was measured at 14 m deep with the ladders tied back to the largest convenient tree. Subsequent pitch descents have been made using SRT from bolts at the left hand wall, tied back to a tree, with a couple of deviations taking the rope out of the descending crack. The vertical drop for this pitch is also 14 m .
The base of the shaft is covered with boulders, bones and rubbish, including tyres, in a large chamber. A number of passages radiate from here, one down into the streamway and others to high level routes.

A measurement of the radon oncentration around July $24^{\text {th }} 2014$ gave a reading of $460 \mathrm{~Bq} \mathrm{~m}{ }^{-3}$

## Passages to the East and South of the Entrance Shaft

Galería de Yeso and Upstream
The Galería de Yeso was the first gallery ooked at in May 2014 when exploration by Matienzo Caves Project members started. From the entrance chamber, the obvious bouldery route downhill to the northeast goes past a small window down on the right to the stream (guarded by a tyre) and then levels out into a generally walking passage,
which becomes more decorated with dull which becomes more decorated with dull gypsum crystals. This fossil passage, with good decorations (and photo opportunities)
in places, also has excellent hanging floors in places, also has excellent hanging floors where stream cobbles are exposed und other calcited sediments. The route continues for more than 760 m , over boulders with drops down to the river and holes at roof level then through a couple of lower contortions near the end, to an excavated hole through into a small enlargement with routes right and left that are too small (batch 14-00). There was no apparent draught in warm weather at this apparent draught in warm weather at this
point and the passage is approaching the surface. The Spanish survey ends a few stations back from here.

At a number of places through this gallery there is evidence of previous explorations: carbide dumps, black carbide graffiti on the walls, broken stal and litter, etc. The

MATIENZO UNDERGROUND - site descriptions (printed 1902/2024
Volume 6 - page 13
 some station markers but with no attempt to explore and survey side passages on that first trip. Subsequent visits in the summer
and autumn pushed many of the leads off and autumn pushed many of the leads off
the Galería de Yeso and these are described sequentially from the entrance chamber in the following expanded description

Yeso Oxbow (batch $14-11$; length 21 m ) At $\frac{\text { Yeso Oxbow (batch 14-11; length 21m) At }}{\text { the first crouching section of the Galería de }}$ the first crouching section on the right, Yeso a short oxbow rises on the right,
noteable for a large gypsum "chandelie noteable for a large gypsum "chandeli
The passage swings to the left along a hading rift before rejoining the main route at a small climb down.

A short climb over stal then reaches floored passage to a pile of boulders. A fev steps over the top of these gains the continuation of the Galería de Yeso, but routes down between boulders to the east west drop to the streamway.
Downstream segment (batch 14-12; length 126 m ) A crouch to the west through the boulder pile drops down to a walking / with much of the streamway, has low ban of cobbles. About 60 m downstream a high aven on the south side connects to Galería Mabe, 7 m above. After a further 65 m , the water becomes waist-deep and the passage npstream segment (batches 14-13 14 Upstream segment (batches $14-13,14-$
16, 14-28; length 501 m ) As well as meeting the upstream continuation down a slope of boulders on the left (north) side of the Galería de Yeso, this 500 m length of streamway can be entered down a slope and tight crawl further along the Galería de
Yeso, after the rock ribs, at station 1401.51. A crawl over cobbles is met about

50 m upstream and then the water deepens, with mud banks, until the passage develops along a tall rift. Straight ahead, starting with deep mud, a squeeze through and steep crawl up meets the Galería de Yeso. To the left, a deep canal and duck emerges in more cobbley stream passage with a 31 m high aven on the south side. The passage continues upstream for over 100 m to a duck which had leeches in 2014. Small pockets of formations are passed, including "black mi gours", until the passage narrows and the water deepens, necessitating a swim. The passage has been pushed a short distance
further upstream to a duck/sump chamber further upstream to a duck/sump chambel probably about 40m from the "low duck ren currently ends exploration in streamway segment - see below.
Back at the boulder pile, the roo Back at the boulder pile, the roomy, sediment-floored passage continues,
immediately encountering walls of carbide names and a hole in the roof which is a 3 m roped pitch down from the Galería Mabe. About 70m further on, stepping over rock ribs leads to 2 ways on - high and low level
crouches - which quickly unite at station 1401.51 and the route down to the stream

The way on enlarges in a 6 m high and damp chamber and, where the floor level route constricts at a "portal", a short climb on the right enters 25 m of unsurveyed tube. Continuing south, the cave passage becomes better decorated with the Another Anorexic Porn Star column and various sta pendants and floors
The route narrows slightly then widens just past some obviously "planted" stal, with more formations and some unexplored possibilities on the east side. About 25 m
beyond the last of these - an unexplored 5 m beyond the last of these - an unexplor
drop - a large block marks the survey station and short climb up into the northern entrance of the Western Loop, described below. The route enlarges, with the bigger oxbow passage up to the left (batch 14-34) and the usual, smaller route straight ahea
After a few metres the passage becomes After a few metres the passage becomes
smaller ahead (an oxbow, batch 14-10) ar smaller ahead (an oxbow, batch 14-10) and the main route turns left to meet up with the oxbow at station 14-01.31. The main route continues past more side routes and various small possibilities until the passage enlarges at a large column. Here, a climb up an inclined rift heads back to a choke an
at the low level, stream cobbles at head height protrude from below a calcite cover There are a number of possibilities for extension in this area, including "digs down (batch 14-07)
The passage becomes small and a couple of short crawls through stal unite to me
one of three entry points into Bold Step Passage on the right. A few metres furthe on, where the passage swings right, another tiny entrance is seen on the right, just before a hands-and-knees crawl over muddy gours and a short climb up at a pendant
stal. Thirty metres further on, another fo pal. Thirty metres further on, another focal point in the cave is reached, Bold Step Chamber, just beyond a 3-piece stal arrow a short passage to the west ends at a large
a broken stal and a ledge and aven above Love Heart Passage (batch 14-05, length Volume 6 - page 14

15 Chamber passes into a rising, narrower
passage to the east and south. The passage then descends under an aven and ends at a mud choke.
Western Loop (batches 14-08, 14-09 and $14-14$, length 326 m ) This is entered up a short climb to the west. Back to the northeast is Bold Step Passage, described below; to the west is a short passage ending at a veranda with a view down to the broken stal, while to the southwest, a narrow, 2 m high passage meanders for 25 m until a short climb up intersects the main, Western Loop, passage. To the south, the 5 m wide passage is nicely decorated but becomes increasingly muddy past tree roots and holes in the floor. The end has not been pushed and there are possibilities between stal.

To the north, the route starts low but
larges at formations. To the left, high enlarges at formations. To the left, high
level holes have been investigated and choke. Cobbles and an uncertain left hand wall are past and further cobble deposits are seen as the passage passes over the Galería de Yeso. The passage lowers to a decorated crawl just after the passage splits. The route passes through a grotto and swings
right past "SESS" in carbide on the left hand wall. The passage then widens and becomes wetter at a chamber. To the left a crawl on wetter at a chamber. To the left a crawl on sculptured skull where there is a stal sculptured skull where there is a stai
blockage. Straight on, over a 1 m high mud blockage. Straight on, over a 1 m high mud bank and past some mud sculptures, the small route ends at a short climb down into the Galería de Yeso at station 14-08.24. Bold Step Passage (batches 14-35 and 14-
36 , length 91 m ) A bold step over a 2 m drop 36 , length 91 m ) A bold step over a 2 m drop enters a passage that rises up a slope to the west to an aven with a possible passag
the north, the well decorated passage becomes smaller as it passes back and forth over the Galería de Yeso and eventually links with it in two places near the muddy gours crawl.

Beyond Bold Step Chamber, a low, excavated passage on the left (west) side leads through a flat out crawl to a narrow climb down into the stream. The streamway is described below. The main route is described below. The main route continues past muddy stal in a wide
bedding. A small chamber is soon reached bedding. A small chamber is soon reached
beyond a hole in the floor. Ahead, through a beyond a hole in the floor. Ahead, through a
low squeeze, all routes close in. To the west, low squeeze, all routes close in. To the west, over the hole, a small,
has "Stop" in carbide on the wall near the end (batch 14-03). Beyond, an excavated end (batch 14-03). Beyond, an
section ends where it is possibe to look through into an enlargement - probably the southern section of the Western Loop. Southern-most stream segment (batches $\frac{14-26 \text { and 14-04, length 206m; batches } 15}{03-15-06 \text { length } 281 \mathrm{~m} \text { ) Down the hole in }}$ the floor, the stream is met again. Upstrear has been pushed past an oxbow and duck to a short climb into high level passages. These end at an 8 m pitch to a pool after a number of side passages which have digging
possibilities. Back in the stream, the low upstream route becomes extremely unpleasant through low ducks in runny cow shit with cow shit snottites. The streamway currently ends at a dig in silt. (This antion for 15-03-15-06.)
Downstream passes a low section to meet the route in from the flatout crawl and climb down. The cobbley streamway continues to station 14-26.10 where a 2 m climb on the right enters a draughting bedding plane which is unexplored beyond a stal grille After more than 100 m , exploration downstream has stopped at a sandy chamber with a low duck which has not been passed. The water is presumed to flow to the duck/sump chamber about 40 m to the north.

Galería Mabe, Galería Emeuve and
beyond (batches 14-15, 14-17, 14-27, 1429 and 14-30, length 788m)

The obvious hole 3 m up on the southeast wall is the usual entry point to this set of high level passages. There are three connections between the passages.

Galería Mabe At the top of the 3 m climb a calcite-floored chamber is entered and at the far side a passage runs south then east for about 100m to the Paso del Diablo. On the south side of the gallery there are passages sloping up into the Galería Emeuve
series, described below. The Paso del Diablo is a roped(?) traverse over a 4 m deep pit to a continuing passage. Fifty metres beyond, a route to the left ends at a 3 m roped pitch into the Galería de Yeso near the boulder pile and stream connection. Passages to the south of this connection have no passage or description detail, although there could be a flatout crawl involved (batch 14-29). A parallel route to the east has an unexplored 5 m deep rift (batch 14-30). Description of these 2 batches required.
Galería Emeuve This series on the MATIENZO UNDERGROUND - site descriptions (printed $19 / 02 / 2024$
southern side of Galería Mabe was not on
the oriainal survev but was brieflv describe the original survey but was briefly described
in the article in Cuadernos V-VI. It consists of a series of passages and chambers which connect with Galería Mabe in several places. It can first be reached up a short scramble It can first be reached up a short scramble
on the right hand side of the Galería Mabe, about 70 m from the Cañaos shaft. A low about 70 m from the Cañaos shaft. A low passage immediately leads into Volcano 20 m long and 12 m wide. According to the survey, this is directly beneath the to the survey, this is directly beneath the road,
which is about 20 m above the roof of the which is about 20 m above the roof of the chamber. Two passages on the west side of
the chamber connect at the start of another the chamber connect at the start of another large chamber with some fine formations. A hole on the right drops back into Galería Mabe, while a crawl at the end of the chamber reaches a final room, adorned with a mysterious old glove on top of a stalagmite. This is extremely close to a passage reached on the other side of the Cañaos shaft
In Volcano Chamber again, a mud slope on the eastern side leads up to a passage that breaks out into a wider area and slopes down to the top of a shaft. The return to Volcano Chamber can be made along a The second part of Galería Emeuve is reached at the top of a second steeper climb up the right-hand wall of Galería Mabe some 20 m from the first scramble. A crawl soon comes to a pit in the floor (which is still undescended). The aven above this pit is in fact the shaft seen earlier off Volcano Chamber. The pit can be traversed on the left hand side and a passage on two levels soon comes to an aven. The rubbish at the base of this aven, much of it calcited, shows that it is the shaft that was open to the surface in the 1960s but which has since been capped. (The surface position is documented as site 4084). There is a short low passage at floor level, but the main passage continues for about 25 m to a sharp -hand turn. On the corner a narrow slot apparently drops into Galería Mabe on the ar side of Paso del Diablo. Now heading passage becomes narrower chokes after about 30 m .

## 

 South of the Entrance ShaftRoutes towards Cueva Riocueva All of these passages are entered up a short climb at the southwest side of the Torca de los Cañaos entrance shaft. Six metres later a short climb down reaches a chamber. To the left (east), a low passage links back to the shaft though rubbish and boulders. Climbing up to the right from the short climb reaches a slot back down through a clean-washed area and climbs down to the stream. To the right of the slot is an undescended passage Part way up the climb to the slot going off left over boulders leads to higher leve
passages. Left leads to stal chambers clos to the Galería Emeuve series. Right, after 25 m keeping up left here gives access to the Galería del Laboratorio series while going down to the right accesses Galería del Tembleque, in which pitches down are alternate routes to the stream passage and also Stop Passage

Streamway segment downstream to the surface (batches 15-01, 14-24, 15-02 and $14-25$, length 439 m ) From bottom of the entrance shaft the lower west passage leads to breakdown with a link to the upper passage. A slot down on right leads to a decending rift to meet the 4 m wide 2.5 m high river passage some 40 m from the choke under the entrance (lots of bones and surface rubbish but no obvious way surface rubbish but no obvious way
through). Down stream the passage roo opens up to a rift that connects to the upper west passage.

The streamway (River of Bones) starts
littered with animal bones. After a hundred or so metres of downstream progress, the stream disappears under the right hand wall
in a series of small rifts (shown on the in a series of small rifts (shown on the Spanish survey). The continuing overflow passage passes boulders and has standing water. A decorated crawl over mud widens to a possible hole up to Stop Passage and continues through a
up on the through a chamber where a slope the Cue right links via a 3 m climb up (However, this possible free climb may to be tackled up from above and, even if found with a rope or ladder, the Riocueva entrance is likely to be locked.) The fine streamway where the water sinks away on the right and a flat-out crawl shows approaching daylight and the stooping walk-out at the bottom

Just downstream of the big oxbow on the north side of the streamway ( 50 m west of Volume 6 - page 16
the entrance shaft) is a bold step into of here, the stream enters a narrow rift of here, the stream enters a narrow rift the Spanish survey

The Galería del Laboratorio series cluding the high level extension (batches 14-18 (part), 14-21 and 14-32, length 312 m ) The left hand route at the 3-way junction enters a mud-floored passage that soon passes under a 5 m pitch up (described below). The main route continues for abo 80 m to a stal choke, passing through several excavated sections.

The climb up at the p5 (batch 14-21) is easy if aided by passing a ladder/rope over
a large flake at the top and it enters a low a large flake at the top and it enters a low
passage leading to a small chamber, at the top of which pretty passages run left and right. That to the left leads to the squeeze through stal which has been enlarged. This was later surveyed as batch 14-32 to end choked with more stal. A p5 was descended and surveyed as batch 15-07: A muddy slot drops into a small, bouldery chamber. Right facing the pitch, is blind and left leads via a small crawl into an smaller aven chamber. The aven is 10 m high and was climbed for
7 m until it becaome too difficult. There does 7 m until it becaome too difficult. There doe not appear to be a way on at the

Galería del Tembleque (batches 14-18 (part), 14-33 and 4042-14-04, length $\underline{278 \mathrm{~m})}$ The right hand route to the south at the 3-way junction enters a mud-floored passage, through a stal grille and past a high level oxbow where there is a possible traverse to a passage. The passage encounters rifts down to water which may show up an inaccuracy on the survey. Just beyond, at station 14-18.44, a climb up on the west wall reaches a decorated gallery that soon closes in after splitting (batch $14-$ 33). A roped traverse (length?), the Paso de la Muerte, safeguards the route past various drops and the p8 down to Stop Passage (se below). The gallery continues to a squeeze between stal and, about 90 m further on, a 4 m drop. Below is the main archaeological
passage in Cueva Riocueva and it is possible passage in Cueva Riocueva and it is possibl
to climb carefully across and traverse down to climb carefully across and traverse
to the floor. At high level, Galería del to the floor. At high level, Galería del
Tembleque continues through a crawl and Tembleque continues through a crawl and past ochre deposits on the north wall to an
area of false floors. Beyond, past 2 pits, the passage becomes smaller with continuing crawls over bat and fox guano as it approaches the surface
Stop Passage (batch 14-31, length 97 m ) To the east of the Paso de la Muerte, an 8 m pitch drops into a decorated chamber with route down to the stream. Stop Passage leads out to the west and is a bouldery and well decorated passage to a choke finishing very close to the choke that almost closes off the end of the archaeological passage in Cueva Riocueva.

Cueva Riocueva (batches 4042-14-02 and 4042-14-03, length 267 m ) As describe above, there are two ways into the
archaeological passage from Torca de los Cañaos - up from the stream or down from the Galería del Tembleque. The latter route is more likely. At the base of the climb dow into the archaeological passage, a short distance to the northeast ends in a choke. The only way through is a low section to the right that rises then passes through a squeeze to the top of a short drop into the streamway. The drop is bolted at the top and a ladder is best although a rope has
been used. (It is a free climb if you know where the concealed foothold is partway down.) Just before the drop, a short climb up to the left enters a bouldery, choked chamber

To the southwest from the Tembleque climb, the roomy passage passes a large
stalagmite to reach a slight enlargement with a bouldery floor. A passage a couple of metres up the left hand (south) wall continues small to end after about 60 metres where the passage splits into three. The centre route is diggable and is only a few metres from the Riocueva entrance chamber. Continuing in the main passage, a number of archaeological excavations can be carefully stepped over. A short crawl then carefully stepped over. A short which is enters the entrance chamber which is
normally gated at the exit. (Photos anc normally gated at the exit. (Photos and
video of the passages near the Riocueva video of the passages near the Riocu
entrance are found in the Riocueva entrance are found in the Riocueva
description. The 1983 video on YouTube shows the Riocueva passage and the rout down to the stream, then the return.) Reference: Ruiz Cobo J and Muñoz Fernández E,
2013; anon., 2014b (Easter logbook); anon., 2014c (summer logbook); ; anon., 2014d (autumn logbook); anon., 2015c (summer logbook)
Entrance pictures : summer \& autumn Entrance pictures : summer \& autumn 2014
Underground pictures : summer 2014 : autumn 2014

4046: Arroyo de Canastrillas,
water can be followed upstream from the entrance for about 40 m through a couple of ducks to where it intersects the high level. dry cave was excavated at the end of July 2015. A calcited chamber was entered with a smaller sandy tube continuing. There is a a smaller sandy tube continuing. There good draught and digging is easy. The upstream sump was also free-dived into about 20 m of 4 m wide, walking passage nding at a large, blue sump. A large arch and the site is seen as an Xcellent diving prospect.
This sump was dived by Jim Lister in April 2016. A steeply descending passage reaches 3.2 m depth before meeting a boulder blockage with possible passage seen beyond. "This sump would be worth digging f there weren't so many open sumps elsewhere. A tirfor and lots of trips would be needed to do this.
The northern sump was dived by Colin Hayward in August, 2016. A depth of 2.8 m was reached via a tube in roof over a silt floor. A roof flake is met with routes off each side, probably staying at -2.8 m where the silt closes up to tghe roof in two mini chambers. Three dives were made on the day, the second and third without fins. On day, the second and third without fins. On the third, a boulder was taken
to provide a belay at the flake

This sump takes water from a rising in the
This sump takes water from a rising in cave off to one side of the sump pool. It ant day may only be accurate on the day and the boulder taken in to belay the line may move further down the slope in the silt floor The line was removed after the dive.

The survey was corrected with the sumps placed in the correct positions in August 2016

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.
"There is enough large passage in this cave to make the rest of the surrounding rea well worth further scampering"

See also site 4407
Link to entry in the Cave Diving Sump Index.

Reference: anon., 2014c (summer logbook); anon Reference: anon., 2014c (summer logbook);
2015 b (Easter logbook); anon., 2015c (summer logbook); anon., 2016b (Easter logbook); anon.
las 2016c (summer log February logbook) Entrance pictures : yes nderground pictures : northern sump, August Video : Digging and free-diving activities, 29th July 2015 (YouTube) : diving the northern sump (YouTube)
Detailed survey : 1:500 pdf : sketch July 2015 explorations : 1:500 pdf updated 2015 Sketch of terminal upstream sump 2, Easter 2016: :500 pdf updated Easter 2016 : corrected survey, Line Survey On area surve)
Survex file : with Easter 2016 approx. data to sum 2

X
4047: Slug Hole
Riolastras 30 T 4553034803138 (Datum: ETRS89. Accuracy code: G) Altitude 124 m
Area position

A horizontal tube in bedrock in the side of a logging track. It was originally discovered "full of large slugs" and has been partially excavated to a pit with a way on at the base around a tight corner, not pushed. The main passage continues over the top but needs a
lump hammer to pass stal obstructions. lump hammer to pass stal obstructions.

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Reference: anon., 2014c (summer logbook)
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Entrance picture : yes
Underground pictures
Video:
Detailed survey
Line Survey
On area surv
Survex file
X

4048: Puppy Dog's Tail Cave Riolastras 30T 4554104802923 (Datum: ETRS89. Accuracy code: G) Altitude 142 m
Length 10 m
Area position
Updated 30th November 2016
A draughting dig beyond 2 entrances which has been excavated to a tight rif where daylight can be seen above. In July 016, the draughting squeeze was MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
excavated and the dig continues. In October 2016, it was excavated $2 m$ beyond the cross to a mud-filled continuation which requires significant work

Reference: anon., 2014c (summer logbook); anon. Reference: anon., 2014c (summer lo
2016d (autumn logbook) Entrance pictures : 201 Video :
Video :
Detailed survey Detailed sur
Line Survey On area survey Survex file

## 4049: Bat Cave

Riolastras 30T 4552644803121 (Datum: ETRS89 Riolastras 30T 4552644803121 Area position

A small, unexplored entrance.
Reference: anon., 2014c (summer logbook) Entrance picture : yes
Underground pictures Video
Detailed survey Line Survey On area surv Survex file

4050: Pipe Cave
Garzón, Solórzano 30T 4501364802469 (Datum: ETRS89. Accuracy code: G) Altitude 197 m Length 142

Updated 11th December 2014; 18tl
Updated 11th December 2014; 18th October, 7th December 2015; 11th February 2016; 24th May; 5th June, 29th September 2017

A grey, 150 mm diameter pipe runs into a A grey, 150 mm diameter pipe run large depression. A descent through
boulders by the pipe has an excavate boulders by the pipe has an excavated,
draughting continuation beyond at ends at draughting continuation beyond at ends at the narrow top of a spacious 17 m pitch. At
the base, 30 m of walking and scrambling leads to a large breakdown chamber. An 8 m pitch at the end of this leads to a draughting blockage of large boulders.

The site was surveyed in October 2015 when a previously undescended pitch was dropped to a choke.

In October 2016, the intended dig/capping te was found to have washed out giving a tight climb down a short rift. A left downward climb (which needed capping) led into a small chamber. Another downward climb led to a large chamber in boulders, and a slope down to a further chamber. At the base a narrow vadose trench in sandy rock continues but needs 'thinnies' to mak progress. There is a good draught. Th estimated new depth 20 m , length 30 m (no included in the above surveyed dimensions.

In April 2017, a dead dog was found at the base of the first pitch. At the end, the tight squeeze was pushed over a false floor which was removed from the far end to make room for the other caver. A "circular chamber was entered, $3 \times 4 \times 5 \mathrm{~m}$ high with the way on down a silt-filled passage, 600 mm square and 2.5 m long tapering to 300 mm square The passage turns sharp left but is far too tight to follow. The route was surveyed adding 32 m to the length. Flood debris was found in the final chamber, 2 m above the floor

Reference: anon., 2014c (summer logbook); anor 2014d (autumn logbook); anon., 2015d (autumn logbook); anon., 2017b (Easter logbook) Entrance pictures : August 2014 : April 2017 Underground pictures : autumn 2014 : April 2017 Video Detailed survey : plan and elevation : 2017 update plan and elevatio Line Survey
On area surve

```
Survex file : after 2017 exploration
```

4051: dig
Garzón, Solórzano 30T 4500334802551 (Datum ETRS89. Accur
Area position

A steep depression near a farm and next to a large depression. A small hole at the bottom draughts but it is no easy digging option

Reference: anon., 2014c (summer logbook) Entrance picture

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Underground picture
```

Video
Detailed survey

## 4052: dig

 Garzón, Solórzano 30T 4499994802558 (Datum: ETRS89. Accuracy code: G) Altitude 187 m Area positionUpdated 20th February 2018
At the base of a large depression, a draughting hole blocks at 1.5 m . The nearby stream sink (water traced to Santa Juliana, \#3282) is site 4658.

Reference: anon., 2014c (summer logbook); anon Reference: anon., 2014c (summer
2018a (January, February logbook) 2018a (January, February logbook) Underground pictures

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

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

X
4053: shaft
Garzón, Solórzano 30T 4505944802014 (Datum: ETRS89. Accuracy code: G) Altitude 192m Length 10 m Depth 4 m Area position

A gated rift at the side of a shallow depression descends gently for 3 m to a possible shaft blocked by large boulders. A small side passage to the right blocks after 4 m .

Reference: anon., 2014c (summer logbook) Entrance picture : yes Underground pictures

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Video:
```

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

4054: cave
Garzón, Solórzano 30T 4506364802047 (Datum: Garzón, Solórzano 30T 450636 4802047
ETRS89. Accuracy code: G) Altitude 189 m ETRS89. Accl
Length 6 m Length 6 m

A small depression under a knoll has a 6 m long crawl that becomes too tight at a bend

Reference: anon., 2014c (summer logbook)
Reference: anon.
Entrance picture Untrance picture : Video : Detailed surve
Line Survey: Line Survey On area survey Survex file :
X

4055: shaft
Garzón, Solórzano 30T 4506294802022 (Datum: ETRS89. Accuracy code: G) Altitude 187 m Length 5 m De
Area position

Near the top of a small knoll, a narrow, climbable shaft is blocked with soil at a depth of 5 m .

Reference: anon., 2014c (summer logbook) Entrance pictures : yes Video :

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Detailed
```

Line Survey :
On area surve
Survex file :
x

4056: cave Cobadal 30T 447995 4799010 (Datum: ETRS89.
Accuracy code: A) Altitude 205 m Accuracy code: A) Altitude 205 m
Length 6 m Depth 3 m Length 6 m I

This site lies 25 m up the slope southwest from site 2566 . A climb down into a passage chokes after 3 m . The above position is taker from the map.

Reference: anon., 2014c (summer logbook)
Entrance pictures: Entrance pictures Underground pictures
Detailed survey
Line Survey :
Line Survey:
On area survey
Survex file :
X

4057: rift
Cobadal 30T 4478734799002 (Datum: ETRS89. Accuracy code: G) Altitude 228 m Length 15m Depth 4 m

## Area position

A rift parallel to and above a new road through a eucalyptus plantation. The site has three points of entry described below from west to east.
1: A 3 m climb down into a cross rift. All become too tight in less than 2 m . A hole in the floor chokes but has a draught. MATIENZO UNDERGROUND - site descriptions (printed 19/02/202
Volume $6-$ page 21

2: A 3 m descent into the rift which is completely choked at both ends 3: A tight rift chokes after 4 m .

Reference: anon., 2014c (summer logbook)
Reference: anon., 20140
Entrance pictures : yes Entrance pictures : yes
Underground pictures Video :
Detailed survey Line Survey: On area surv Survex file

4058: dig
Hornedo 30T 4477904801521 (Datum: ETRS89, Accuracy code: G) Altitude 92 m Area position

A small passage under a loose boulder in a depression. The dig has a slight draught out.

Reference: anon., 2014c (summer logbook) Entrance pictures Underground pictures
Video :
Detailed survey
Line Survey :
On area survey
On area sur
Survex file

## 4059: cave

Hornedo 30T 4477124801656 (Datum: ETRS89.
Accuracy code: G) Altitude 92 m Accuracy code: G) Altitude 92 m
Area position

A cave in a wide undercut under a shelf. The hole is less than body size on a bedding plane with no draught detected.

Reference: anon., 2
Entrance pictures :
Underground pictures
Video:
Detailed surv
Line Survey
On area sur On area sur
Survex file

X

## 4060: Torre, Cueva del (Pylon

 CaveRiolastras 3074552054803072 (Datum: ETRS89 Accuracy code: G) Altitu
Length 21 m Depth 6 m
Length 21 m
Area position
This site is close to a newly erected electricity pylon. The entrance is in the same electricity pylon. The entrance is in the same 2 m drop can be bypassed by a climb down 2 m drop can be bypassed by a climb dowr
on the left into a low chamber. There is a on the
skylight in the roof. The way on is on the
skylight in the roof. The way on ith a drop and roof tube. Both immediately choke close and roof tube. Both immediately choke close to Snail Cave.

Reference: anon., 2014c (summer logbook)
Entrance pictures: yes
Underground pictures
Video :
Detailed su
Line Survey
On area surv
Survex file : yes : with 4061

4061: Caracol, Cueva del Riolastras 30T 4552034803082 (Datum: ETRS8 Accuracy code: G) Altitude 128 m Length 47 m Depth 8 m Area position

A small entrance in the same cliff as site 4061, Cueva del Pilón, about 10 m to the right. The cave ends in chokes and a narow descending rift that needs digging but may have no draught.

Reference: anon.,
Entrance pictures
Underground pictures
Video
Detailed survey : 4060 and 406
Line Survey :
On area survey :
Survex file : yes : with 4061

4062: K23, Sima

## Ozana 30T 454199 4794353 (Datum: ETRS89

 Ozana 30 T 454199 4794353 (DatuAccuracy code: G) Altitude 335 m
Length 9 m Depth 6 m
Area position
Updated 9th January 2018
This site lies off the road below Cruz Usaño on the 335m contour. Rock removal and capping allows entry down 5 m into a $1.8 \times 0.7 \mathrm{~m}$ "chamber". There is the

Reference: anon., 2014c (summer logbook)
Entrance pictures: July 2014 Hntance pictures: July 2014 Underground pictures Video : July 2014 (YouTube)
Detailed survey : Detailed surve On Survey On area surve
Survex file :

Updated $7^{\text {th }}$ May 2016
A small draughtless collapse in a field. At Easter 2016, a new hole was excavated 1 m from the original 'dig' site. This turned out to be a 6.5 m deep, narrow shaft, choked at the base.

Reference: anon., 2014c (summer logbook); anon. Reference: anon., 2014c (sumn
2016b (Easter logbook)
Entrance pictures : April 2016 Entrance pictures : April
Video:
Detailed survey
Line Survey
On area survey :
On area surve
X

4064: Deaf Gerald's, The Trillos 30T 4480324793548 (Datum: ETRS89. Trillos 30T 4480324793548 (Datu
Accuracy code: G) Altitude 748 m Accuracy code: G) Altitud
Length 18 m Depth 18 m Area position

Updated 19th September 2021
A p18 drops to a narrow rift where a capping mat has dropped down. Should be passable by a small person or with more rock removed, although it is in an awkward position. In August 2021, mist was noticed position. In August 2021, mist was r
coming out of the entrance - "looks interesting".

Reference: anon., 2014c (summer logbook); anon.
2021c (summer logbook) 2021c (summer logbook) Entrance pictures

```
Video:
```

Detailed survey
Line Survey
On area surve
Survex file :
x

4065: Zorros 1, Cueva de los Solórzano 30T 452672 4803339 (Datum: ETRS89. Accuracy code: G) Altitude 90 m Length 67 m Depth 4 m

## Area position

The entrance of the cave is in a small limestone knoll, to the south of the houses in the north-east of Solórzano. On the right of the entrance a small passage slopes down of the entrance a small passage slopes do
to a choke. The main passage continues to a choke. The main passage continues
more or less walking height to a squeeze more or less walking height to a squeeze
and a second section of passage with some stal and tree roots. This ends abruptly at a ramp up. At the top of the ramp, it might be possible to dig out a narrow passage along a rift heading east. There is a Cueva de los Zorros II somewhere in the vicinity, but it has not been located.
According to one account, the entrance might be in the "corridor" immediately to the south in the knoll.

```
Reference: anon., 2014c (summer logbook)
Reference: anon., 2014c
Entrance pictures:yes 
Video :
Detailed survey : yes
Line Survey
On area survey :
Survex file : yes
X
4066: cave
S Vega 30T 4517144794604 (Datum: ETRS89.
S Vega 30T 451714 4794604 (Datu
Accuracy code: G) Altit
Area position
On the slope above Torca de los Cantones, in a shakehole with large boulders. A squeeze down between two boulders leads to a 4 m vertical drop into a small chamber. The chamber slopes down to a 1 m climb and choke.
Reference: anon., 2014c (summer logbook) Entrance picture : yes Video:
Detailed survey : Line Survey On area surve Survex file
4067: shaft
MATIENZO UNDERGROUND - site descriptions (printed
Volume \(6-\) page 23
```

```
Reference: Smith Peter, 2012
```

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

## 4069: cave (Top Dog

Garzón, Solórzano 30T 4502464803177 (Datum ETRS89. Accuracy code: A) Altitude 233 m Length 106 m Depth 9 m Area position

Updated 12th November, 10th December 2014; 18th November 2017

This site is just above the road and is a small, vegetated depression with a 2 m slither down to the head of a 6 m pitch. Over 100 m of well decorated, roomy passage ends at a stal choke. All of it is close to th surface and, in October 2017, a team looked beyond the position of the choke for other entrances - but found nothing of interest. After visiting the group dug into 3 m of passage just before the pitch and described the site: "Excellent cave; well worth a trip!

Reference: anon., 2014c (summer logbook); anon Reference: anon., 2014c
2014d (autumn logbook) Entrance pictures : yes Underground pictures : autumn 2014 and 2017 Video : exploration account (YouTube) Detailed survey : yes Line Survey : On area survey

4070: shaft
Riolastras 30T 4547424802600 (Datum: ETRS8 Riolastras 30T 4547424802600
Accuracy code: G) Altitude 222 m Accuracy code: G) Alti
Length 4 m Depth 4 m Area position

A $4 m$ deep, choked shaft next to the track.

Reference: anon., 2014c (summer logbook)
Reference: anon., 20140
Entrance pictures: yes
Underground pictures
Video:
Detailed survey
Line Survey
On area surv Survex file

## 4071: cave

Riolastras 30T 4548844802754 (Datum: ETRS8 Accuracy code: G) Altitude 203m Length 70 m Depth 30 m Area position

An open entrance at the bottom of a steep slope under an overhanging rock face. A short drop leads to a tight section and a short drop leads to a tight section and a
further drop between boulders into the top further drop between boulders into the top chamber, 7 m across. The middle chamber is reached via a free climb down. The bottom chamber is reached through a dig on a solid wall and a 6 m pitch followed by a steep 14 n slope a 3 m high chamber, all consisting of big boulders and breakdown
There is a possible dig through the floor but extreme caution is needed. The site has not been surveyed as it is "not a very nice place"

Reference: anon., 2014c (summer logbook)
Entrance pictures : yes The grid reference may be wrong and the
site could be closer to sites 4079 and 4080, site could be closer to sites
explored on the same day. The entrance is a possible stream sink
the base of a small valley. A crawl under boulders leads back up under the valley to short climb down into a small chamber. Another climb down over boulders ends at a very tight pitch head. The rift was rigged to a jammed block but entry to the pitch (estimated to be 10 m deep) was too narrow although it widens out below.
(There should be a picture of the

## entrance.)

Reference: anon., 2014c (summer logbook)
Reference: anon.,
Entrance pictures
Entrance pictures :
Underground pictures

## Video :

```
Detailed sur
```

Line Survey
On area survey
Survex file
X

4073: hole Hoznayo 30T 443609 4805316 (Datum: ETRS89 Hoznayo 30T 4436094805316 (1
Accuracy code: G) Altitude 55m Accuracy code
Area position

A possible tyre-filled hole / dig in the middle of a depression. It lies some hundred middle of a depression. It lies some hundrec
metres west of the passages at the current metres west of the passages at the current
southern end of Torca Cañaos - Riocueva southern end of Torca Cañaos - Riocueva system.

Reference: anon., 2014c (summer logbook) Entrance pictures :

```
Underground pictur
```

Video:
Detailed survey
Detailed sur
On area surve
Survex file :
X

4074: cave
Hoznayo 30T 4437524805129 (Datum: ETRS89. Accuracy code: G) Altitude 60 m Length 66 m

## Area position

A $5 \times 3 \mathrm{~m}$ entrance into "nice stompy sandstone passage" where it closes up after 66 m . (Better description?)

Reference: anon., 2014c (summer logbook)
Entrance pictures:

```
Underground pictures
```

Video :
Video:
Detailed survey : in preparation
Detailed surv
Line Survey :
On area surve
On area survey :
Survex file : yes
x

4075: Perro Doble
Hoznayo 30T 4436234805268 (Datum: ETRS89, Hoznayo $\begin{aligned} & \text { Accuracy code: G) Altitude } 51 \mathrm{~m}\end{aligned}{ }^{2} \mathrm{~L}$ Length 73 m Depth 7 m
Area position

## Area position

 Two holes in a rock face. The streamwa
closes down, very tight and with a slight draught.

Reference: anon., 2014c (summer logbook) Entrance pictures Underground pictures Video:

```
Detailed surv L
```

Line Survey:
On area survey :
Survex file : yes
X

4076: shaft
Trillos 30T 4482154793560 (Datum: ETRS89 Trincus 307 448215 4793560 (Datu
Accuracy code: G) Altitude 738 m
Length 10 m Depth 8 m
Area position
A short shaft in a shakehole which required "an amusingly large $Y$-hang" to negotiate the 8 m pitch. A small chamber is reached but there is no way on.

Reference: anon., 2014c (summer logbook) Reference: anon.,
Entrance pictures :
Underground pictures
Video:

```
Detailed surve
Line Survey:
```

On area survey :
Survex file
X
4077: shaft (LC206)
by following a gully down over sandstone to
a depression with a $2 m$ high scar on the depression with a 2 m high scar on the with a good draught that needs soil and eaves digging out. More work was done in eaves digging out. More work was done
March 2016 when a small chamber was March 2016 when a small chamber was reached. A good day's work is required after
checking the draught in warm weather. checking the draught in warm weather. The site was
August 2023.

Reference: anon., 2014d (autumn logbook); anon 2016b (Easter logbook); anon., 2023c (summer Entrance pictures : March 2016 and August 2023 Underground picture : March 2016
Detailed survey Line Survey On area surve Survex file :
X

## 4083: Stop Swap Shop

Garzón, Solórzano 30T 4503454803187 (Datum: ETRS89. Accuracy code: G) Altitude 244 m ength 46 m Depth 31 m

## Area position

## Updated 2nd January 2016

The site is mostly vertical. At the base of the entrance shaft a squeeze through a slot eads to a pitch with a deviation down to a leads to a pitch with a deviation down to chamber with flowstone walls and goat
bones. A further pitch over a boulder climb bones. A further pitch over a boulder climb down a rift leads to the bottom of fallen blocks. A fist-sized hole reaveals spaces below and a possible, very loose dig.

Reference: anon., 2014c (summer logbook) Entrance pictures: Underground pictures Video :
Detailed survey : pdf Line Survey On area survey:
Survex file : yes
x
4084: shaft (capped)
Hoznayo 30T (Datum: ETRS89. Accuracy code: M) Altitude 70m Depth 20 m
Area position

Updated 1st July 2018
This has only been seen from inside the Torca Cañaos - Riocueva system, on an unnamed passage south of the Paso del Diabl where concrete and surface debris can be seen at the base of an aven. On the surface
a grassy field is seen in 2014, but aerial a grassy field is seen in 2014, but aerial photos from the Gobierno de Cantabria show site taken around 2001 and 2002 show earthworks and a possible shaft at the approximate position. (The grid reference has been taken from the cave survey and it is not certain that the shaft went vertically to the surface.)

Reference: anon., 2014c (summer logbook) Entrance pictures : 2001 aerial photo taken from Gobierno de Cantabria maps site

```
Underground pictures
```

Video:
Detailed survey
Line Survey
On area survey
Survex file

Passage direction rose diagram: 1/7/2018
4085: cave (Riocueva bottom

## entrance)

Hoznayo 30T 4432644805527 (Datum: ETRS89. Accuracy code: A) Altitude 21m
Length see Torca de los Cañaos - Riocueva system Area position
Updated 1st July 2018
The bottom entrance to the Torca de los Cañaos - Riocueva system where a stooping entrance below the gated Riocueva site soon meets a flatout crawl into the upstream route into the cave

Reference: anon., 2014c (summer logbook) Entrance pictures : yes
Underground pictures: Video: Detailed survey Line Survey On area surve Survex file
Passage d
Passage direction rose diagram: 1/7/2018
X
4086: Riocueva 2, Cueva de Hoznayo 30T 4432644805531 (Datum: ETRS89. Length ( 8 m included in 4043) Area position

Updated 11th December 2014; 19th February 2016; 24th May 2021 MATIENZO UNDERGROUND - site descriptions (printed $19002 / 2024$
Volume $6-$ page 27

## 4088: resurgence

Hoznayo 30T 4432394805513 (Datum: ETRS89. Accuracy code: A) Altitude 13 m

## Area positio

This is currently the usual resurgence for the Torca de los Cañaos - Riocueva system the Torca de los Cañaos - Riocueva syster
However, water appears to seep out of a However, water appears to seep out of uner places alt base of the steep, boulder-strewn valley below the Riocueva entrances.

Reference: anon., 2014c (summer logbook) Entrance pictures : yes Underground pictures Video :
Detailed survey Line Survey On area sur Survex file

## 4089: cave

Riolastras 30T 4554284803153 (Datum: ETRS89 Accuracy code: G) Altitude 123m Length 132 m Depth 38 m

Updated 9th October 2015
The entrance is an excavated hole under a ledge in a shakehole. A crawl leads into a large chamber with the way on up to the right and down a loose crawl - the Coal Shute. This enters stooping / walking-siz passage that comes to a boulder choke. This has been excavated to a 3 m pitch (Double Shuffle) that lands at the head of a 3 m

Further excavation has occurred in the cave.
In August 2015, two tubes were dug in the wall opposite to the entrance. hand one had a good draught but both tubes ended too tight.

Reference: anon., 2014c (summer logbook); anon., 2015c (summer logbook) Entrance pictures : summer 2014 : SU : 2015 Underground pictures : su 2014 : summer 201 2015

## 4090: dig

Hoznayo 30T 4439364805403 (Datum: ETRS89. Accuracy code: G) Altitude 73 m
Area position

A tyre-filled pit that could be dug out

Reference: anon., 2014c (summer logbook)
Entrance pictures :

A small entrance under a rock outcrop leads to a flat-out crawl emerging in a large cross passage. The cave chokes immediately the right. The left hand passage goes解 15 m to where it splits - both ways ar too tight but the left, lower route is where the draught is coming from.

Reference: anon., 2014c (summer logbook)
Reference: anon., 2014c
Entrance pictures : yes Video :
Detailed survey : 1:250 pdf Line Survey On area survey :
Survex file : yes
x

## 4092: dig

rillos 30 T 4475854794270 (Datum: ETRS89 Accuracy code: G) Altitude 626 m Area position

Updated 7th January 2023
A shaft at the head of a shallow valley on track near the edge of a field. Needs large rocks removing to enter. There is no nearby belay.

A visit in October 2022 suggested that the hole could be descended without removing the boulders.

Reference: anon., 2014d (autumn logbook); anon. Reference: anon., 2014d
2022e (Christmas logbook) Entrance pictures : Underground pictures Video:

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

X

```

4093: cave
San Antonio 30T 4465384802843 (Datum San Antonio 30T 4465384802843 (Datum
ETRS89. Accuracy code: G) Altitude 110m Area position

\section*{Updated 12th November 2022}

A small, slightly draughting cave at the base of a shakehole which requires digging This could not be found in October 2022, "probably the farmer has used this to dump slurry."

Reference: anon., 2014d (autumn logbook); anon. 2022d (autumn logbook)
Entrance pictures
Viderground pictures
Video :
Line Survey :
On area surve Survex file
x
4094: shaft
Moncobe 30T 4460664796439 (Datum: ETRS89. Accuracy code: G) Altitude 232 m
Length 15 m Depth 12 m ength 15 m Depth 12 m Area position

Updated 16th January 2018
This hole was found as a recent collapse in the streambed at the base of a normally dry waterfall. A 10 m pitch followed by a 2 m drop ends at a narrow rift choked with riverbed sandstone cobbles. There is a very strong draught but it is not worth digging in a flood-prone riverbed. The site is over a collapse down an aven just before the last pitch in El Cubillón, site 2538.

Reference: anon., 2014d (autumn logbook) Reference: anon., 2014d (autumn
Entrance pictures : autumn 2014 Underground pictures Video : collapse area and shaft (YouTube) Detailed surve Line Survey Survex file:

X
4095: cave Riolastras 30T 4543524803803 (Datum: ETRS89. Accuracy code: G) Altitude 137m Length 10 m Depth 1 m Area position
MATIENZO UNDERGROUND - site descriptions (printed 19002/202

An open cave entrance in the side of a Ahakehole with an outward draught, first seen in 2014. This was explored, down a seen in 2014. This was explored, down a 2019 A small entrance leads through a 2019. A small entrance leads through a slight constriction to where it is possible to stand up. The passage then becomes much smaller.

Reference: anon., 2014d (autumn logbook); anon., 2019b (Easter logbook

Outside the current (2014) permit area. A Outside the current (2014) permit area.
2 m wide descending rift that seems about 3 m deep..

\section*{Reference: anon., 2014d (autumn logbook)} Entrance pictures : yes
Underground pictures :
Video :
Detailed survey Line Survey
On area sur Survex file

\section*{4097: cave}

Riolastras 30T 4546184804015 (Datum: ETRS89 Accuracy code: G) Altitude 180 m

\section*{Accuracy codn
Area position}

Outside the current (2014) permit area. A small cave which may continue but needs a tree stump removing.

Reference: anon., 2014d (autumn logbook) Entrance pictures : yes

\section*{Underground pictures}

Video
Detailed survey
Line Survey.
Line Surve
On area surv
Survex file:

4098: resurgence
Entrambasaguas 30T 4473904803303 (Datum:
 Area position

Updated 12th November 2022
A resurgence with a considerable flow from a low, sumped bedding plane. It might drain site 4030. Some inspection of the ground behind in October 2022 found sites 5214 and 5215 .

Reference: anon., 2014d (autumn logbook); anon., 2022d (autumn logbook)

\section*{A small hole covered by rocks at the head} of a valley. Both a crowbar and a GPS are required!

Reference: anon., 2014d (autumn logbook) Entrance pictures
```

Underground pictur

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

\section*{4100: dig \\ Las Calzadillas} Area position
A draughting slot at the base of a smal cliff which has been excavated but little progress made. (Nothing else has been found on the outcrop.)

Line Survey
On area sur
```

Survex file

```
x

4101: shaft
Hornedo Length 10 m Depth 10 m Area position
A choked shaft explored to 10 m depth past fill. The base is a sandstone block and there is no draught.

Reference: anon., 2014d (autumn logbook) Entrance pictures Underground pictures : Video:
```

Detailed surv Line Survey:

```
On area surve
Survex file :
Survex file
X
4102: diq
Hornedo 30T 4477464801314 (Datum: ETRS89
Hornedo \(\begin{aligned} & \text { Accuracy code: G) Altitude } 120 \mathrm{~m}\end{aligned}{ }^{2} 48746\) (
Area position

A dig on a sandstone edge.
Reference: anon., 2014d (autumn logbook)
Reference: anon.,
Entrance pictures:
Underground pictures
Video :
Detailed survey
Line Survey :
On area survey :
Survex file
x
4103: diq
Hornedo 30T 4477734801331 (Datum: ETRS89
Hornedo 30T 4477734801331 (D
Accuracy code: G) Altitude 117 m
Area position

A dig on a sandstone edge.
```

Reference: anon., 2014d (autumn logbook)

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

\section*{4104: cave}

Hornedo 30T 447805 4801320 (Datum: ETRS89.
Accuracy code: G) Altitude 118 m Accuracy code: G) Altitude 118 m
Area position Area position

An open entrance with \(3 \times 4 \mathrm{~m}\) passage leading to a sand fill and a good draught coming over the top. A rift at the side has been descended for 4 m to a tiny cross rift. Another drop remains unexplored. The site has been surveyed and photographed.
```

Reference: anon., 2014d (autumn logbook)

```
Reference: anon.,
Entrance pictures :
Underground pictures
Undergr
Video
Video:
Detailed survey
Line Survey
On area surve
Survex file
X
4105: hole
4105: hole 4801306 (Datum: ETRS89
Hornedo 30T 4478304801306 (Da
Accuracy code: G) Altitude 115m
Arcuracy code

A small hole on the edge of the top of a gulley.

Reference: anon., 2014d (autumn logbook)
Reference: anon.,
Entrance pictures: Entrance pictures:
Underground pictures
```

Video:

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

4106: rift
Hornedo 30T 4478184801396 (Datum: ETRS89. Accuracy code: G) Altitude 108m Length \(2 m\)
Area position

A 2 m long narrow rift on the north side of a small shakehole.

Reference: anon., 2014d (autumn logbook) Entrance pictures : Video:
Detailed survey Line Survey : On area surve Survex file :

4107: dig
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
Volume \(6-\) page 3

\section*{Accuracy code: G) Altitude 102 m} Length 3m Depth 3 m Area position
A \(3 m\) deep potential dig in a smal depression-cum-gulley.

Reference: anon., 2014d (autumn logbook) Entrance pictures site 4109)

\section*{4109: shaft} Las Calzadillas

Reference: anon., 2014d (autumn logbook)
Entrance pictures: November 2014
Underground pictures

\section*{4111: Murciélagos, Cueva de}

Updated 24th May 2015; 13th, 19th February, 7th, 9th May, 28th October 2016
 Cobo Jand Muñoz Fernández E, 2013. It
two entrances and was investigated and surveyed by GEIS. Some remains have beer carbon dated. The north entrance was partially altered when the cave was used as an air raid shelter during the Civil War. The grid reference above is for the northwest grid reference above is for the northwest entrance; the southern entrance is at 30T
04447834800679 altitude 164 m . The cave 04447834800679 altitude 164 m . was resurveyed after Easter 2015 .
Site 4397 is between the two entrances.

A walk-in entrance (at the northwest of the cave) passes under a small shaft to the surface and, after 20 m , reaches a steep calcite slope down into an impressive chamber, about 10 m high. There is a possible passage seen high up on the east wall and also closer on the north wall. At floor level, a hole drops into a small chamber with a tight slot. A crawl to the north closes in.

The main way out of the chamber is a walk up into a crawl that soon connects with another parallel passage. To the right, a another parallel passage. To the right, a the second entrance. Just back from here, a crawl on the north side ends at a window crawl on the north side ends at a window
onto the first entrance passage. To the left, a short climb over boulders meets a turn to a short climb over boulders meets a turn to
the south. After 15 m of crawling, a junction the south. After 15 m of crawling, a junction
is met. Further crawling ahead enters an is met. Further crawling ahead enters an increasingly well decorated (and constricted area with the current end being a very lo continuation that would require much digging. Back at the junction, a rift passage has easy climbs which enter a chamber with tall columns.

Beyond is a small hole to an enlargement which may have been passed by others. The route was enlarged at Easter 2016 when it was discovered that the floor was false and, after a hole had been knocked through, that there was a metre drop to a solid floor. The route over the top was enlarged enough to allow one of the team through into a wider 15 m it reaches a surface run-in with roots and a drippy aven. The extension was and a drippy aven. The extension was
surveyed \((\mathrm{L}=18 \mathrm{~m})\) and photographed in August 2016.

Reference: Ruiz Cobo J and Muñoz Fernández E, 2013; anon., 2015a (January, February logbook) anon., 2015b (Easter logbook); anon., 2016b
(Easter logbook); anon., 2016 (summer logbo (Easter logbook); anon., 2016c (summer logbook)
Entrance pictures : Entrance pictures :
Underground pictures : 2015 and 2016
Video : Exploration and survey, May 2015 Video : Exploration and survey, May 2015
(YouTube) : constriction to southern entrance, Easter 2016 (YouTube): enlarging constriction, Easter 2016 (YouTube) Detailed survey : scan (GEIS) : resurvey May 2015 Line Survey On area survey :
Survex file : yes

\section*{x}

4113: cave
N Vega 30T 4496504795721 (Datum: ETRS89 Accuracy code: G) Altitude 337 m Length 26 m Depth 20 m Area position
Updated 25th May 2015
A small entrance onto a 3 m climb down into a short passage. A 5 m rope climb directly beneath the entrance is tight at the top. At the bottom, a pitch of 6 m and 8 m lands on boulders where a narrow,
draughting slot needs capping out. Stones drop for about 25 m . (See sketch elevation).

Reference: anon., 2015a (January, February Reference: anon., 2015a (January, Febr
logbook); anon., 2015b (Easter logbook) Entrance picture : yes
Underground pictures
```

Underground pictures : yes

```
Video:

Detailed survey : sketch elevation (Easter 2015) Detailed sury
Line Survey
 Survex file

4114: cave
Navajeda 30T 4436904801272 (Datum: ETRS89. Accuracy code: G) Altitude 97 m
Length 5 m

At the top of a knoll. A cave remnant with old stal has an arched entrance 2 m wide an 1 m high which gradually lowers and stops after 5 m .

Reference: anon., 2018d (autumn logbook) Entrance picture : October 2018 Underground pictures Video : Detailed surve
Line Survey :
On area surve On area sur
Survex file

Cave description as of 05/04/2015 - Alex Ritchie

The cave is located about 50 m north st of the cow barn on the left-hand side of the first wooded shake-hole. Note ir summer it may need heavy bushwhacking The excavated entrance is an almost flat out soil slope which opens out into a small chamber with calcite formations. The way on used to be through a squeeze over boulders to the right, but a route has been forged through straight ahead. Follow the calcited crawl round the corner to another chamber with a blind pit. Traverse across this into a boulder ruckle, turn left and then straight ahead (left is another previously descended blind pot of 11 m ). Two windows lead onto a now very muddy flat-out crawl for about 20 meters, before the passage enlarges to well decorated walking passage
Left and through the rifts leads to the current Y -hang for the top of the main pitch which is 70 m deep broken by a spiral of ledges. The pitch is unfortunately blind However there are leads off at -40 m which have not been fully pushed and will require bolting

Back at the top, ahead leads to a roped traverse round the main shaft of the pitch. It is possible to step off at the beginning and
Ind turn right. This leads to a choke near the turn right. This leads to a choke neare along with a series of bones and some possible ancient leather. (Should only pore). The traverse leads be entered with care). The traverse lead round the pitch into a rift, the last half of which is currently un-protected but is easy enough. From here the passage enlarges to form a large, well decorated chamber on the left with a 10 m deep hole in the floor

\section*{right-hand side}

At the other side of the slope, most ways on choke or lead to small un-descended holes in the floor. Left is the only way on This leads to a T-junction with shallow muddy pools. Taking a left turn here leads back to the main chamber; a right turn leads to a roped traverse over a deep hole (which becomes too tight). Continuing (which becomes too tight). Continuing
forwards, the passage develops into a rift forwards, the passage develops into a rift here, at the end (straight ahead) is a hole in the floor that connects down a 6 m drop
to the Langdales cave, an easier way in.
To the right just before a hole, is a round trip that will take you through boulders and back to the chamber this side of the traverse, where as a left turn about 20 meters further back leads to an interesting and decorated passage which heads back towards the main 70 m pitch and has a visual connection across a drop to the passage on the left of the pools. Before the end of the passage you have to go up a short climb into a chamber, if you turn right here, this leads to a volcano-like formation, beyond which are choked passages, one of which contains a hole
The aforementioned hole contains a pitch series (Aardwolf Country) that now connects to Vaca and which was surveyed as batch 4117-2015a-01 in October 2015. The first pitch is about 15 m deep and is quite tight a pitch is about 15 m deep and is quite
few metres down. The pitch remains somewhat narrow throughout the descent and deviations are required A window to he deviations are required. A window to pitch which is larger to begin with but again pitch which is larger to begin with but again becomes narrow for the rest of the descent of about 10 metres. This pitch was initially rigged around a rock. The passage appears to choke in narrow rifts. However, a crawl around the corner leads to a much more open pitch into the Vaca main passage of 10 m depth. A stal provided the belay for this drop. This pitch lands at some puddles at station 2889-09-14.71.

Because of the tight nature of the Bountry, this route into the Torca la Vaca System is not recommended.

Reference: anon., 2015b (Easter logbook); anon., 2015c (s
trance picture : yes
Video : Alex Ritchie (YouTubes
Steve Sharp
YouTube)
Detailed survey : 1:500 pdf Easter 2015, amended a Vaca, after summer 2015 : sketch of pitches line Survey
On area survey
Survex file : yes : on centre line survey with Torca la Vaca
Passage direction rose diagram: 30/6/2018

\section*{4118: Pallet Hole} draught and could dig.

Twin depressions, just below a bend in the road. There are no obvious ways out, other road. There are no obvious ways out,
than a narrow side rift linking the two features.
```

Reference: anon., 2015b (Easter logbook) Entrance picture

```
```

Vnderground pictu

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

Reference: anon., 2015b (Easter logbook); anon.,
2016b (Easter logbook); anon., 2022e (Christmas 2016b (Easter logbook); anon., 2022e (Christmas logbook)

This was incompletely explored at Easter 2015 when a depth of 14 m was explored. A year later, the bottom was reached after a p22 then a climb down of 3 m . The base was choked with no draught.
In October 2022, it was realised that site 4242 was a duplicate, albeit in the wron place. Site 4242 will be / has been reallocated. Photos from 4242 are included allocat

Reference: anon., 2015b (Easter logbook); anon. Reference: anon., 2015b (Easter logbook); anon.
2016b (Easter logbook); anon., 2022e (Christmas logbook) Entrance pictures : Easter 2015 : Easter 2016 autumn 2015

4125: dig


\section*{4126: shaft}

La Secada 30T 4526594797823 (Datum: ETRS89. Accuracy code: G) Altitude 180 m Length 6 m Depth 6 m

\section*{Area position}

A line of 4 holes on strong joints lie above a A line of 4 holes on strong joints lie above a
sandstone band along line of rock outcrop. sandstone band along line of rock outcrop This one, in the west, is a small entrance \(0.4 \times 0.7 \mathrm{~m}\) that drops straight onto the choked pitch of 5.6 m . Others are sites 4127, 4128 and 4129
```

Reference: anon., 2015b (Easter logbook)
Reference: anon., 2015
Underground pictures
Video : yes (YouTub
Detailed surve
On area survey
Survex file :
x
4127: shaft
La Secada 30T 452666 4797809 (Datum: ETRS89.
La Secada 30T 452666 4797809(
Length 6m Depth 6m
Area position

```

A line of 4 holes on strong joints lie above a sandstone band along line of rock outcrop. To west of site 4126, this draughtless entrance was found walled up, and is a 6 m drop to a choked rift floor. Others are sites 4128 and 4129.

Reference: anon., 2015b (Easter logbook)
Reference: anon.,
Entrance picture Underground pictures Video : yes (YouTube)
Detailed survey :
Detailed surve Line Survey On area sury
Survex file :

\section*{X}

4128: shaft
La Secada 30T 452694 4797811 (Datum: ETRS89, Accuracy code: G) Altitude 170 m Accuracy code:
Length 10 m Depth 8 m
Area position
A line of 4 holes on strong joints lie above a sandstone band along line of rock outcrop. A tight section leads to a pitch of about 8m. Other holes are sites 4126, 4127 and 4129.
```

Reference: anon., 2015b (Easter logbook)

```
Reference: anon., 2015
Entrance picture : yes
Entrance picture : yes
Video : yes (YouTube)
Detailed surve
Line Survey
On area survey :
On area sur
Survex file :
X
4129: shaft
La Secada 30T 452710 4797823 (Datum: ETRS89.
La Secada 30T 452710 4797823 (
Accuracy code: G) Altitude 170 m
Accuracy cc
Depth 3 m
Area position

A line of 4 holes on strong joints lie above a sandstone band along line of rock outcrop. This site is a shaft obstructed by a flake where it is possible to see about 3 m . Other where it is possible to see about 3 m .
holes are sites 4126,4127 and 4128 .

Reference: anon., 2015b (Easter logbook) Entrance picture : yes Uideo :
Detailed surve Line Survey On area surve Survex file

\section*{4130: cave}

Cubija 30T 4501584796448 (Datum: ETRS89 Accuracy code: G) Altitude 269 m Length 10 m

\section*{Area positio}

A small cave with a good draught which has been dug beyond a crawl into a \(2 \times 1 \mathrm{~m}\) chamber where further work is required.

Reference: anon., 2015b (Easter logbook)
Entrance picture : yes Entrance picture : yes Underground pictures
Video : yes
Detailed sur
Line Survey:
On area survey :
Survex file
X
4131: dig
La Secada 30T 4530704798098 (Datum: ETRS89. La Secada 30T 4530704798098 (
Accuracy code: G) Altitude 225 m
Area position
MATIENZO UNDERGROUND - site descriptions (printed 19002/2024 \(\begin{gathered}\text { Volume } 6-\text { page } 3\end{gathered}\)

\section*{4133: shafi}

Las Calzadillas 30T 4478874794922 (Datum: ETRS89. Accuracy code: G) Altitude 513m Length 20 m Depth 18 m Area position

The shaft was found as a 2 m drop to a false floor. This was excavated to reveal a 16 m free hanging pitch with no obvious way on at the bottom.

Reference: anon., 2015b (Easter logbook) Entrance picture : yes
Underground pictures Video
Detailed survey
Line Survey
On area surv Survex file

\section*{4134: caves - 4}

Las Calzadillas 30T 4473784797336 (Datum: ETRS89. Accuracy code: G) Altitude 260 m Length 10 n Area position

Four very small caves, 20 m apart, found in fields/woods north of site 2996, just below the Alisas road.

Reference: anon., 2015b (Easter logbook Entrance pictur

\section*{Line Surv
On area}

\section*{Survex file}

4137: cave
Cobadal 30T 4476244798968 (Datum: ETRS89 Accuracy code: G) Altitude 230 m Length 25 m Depth 5 m Area position
Updated 11th December 2018; 5th June 2019

This site was found as a strongly draughting dig on the edge of very large depression. It was excavated to reveal a sloping descent for 3 m into a decorated chamber \(19 \mathrm{~m} \times 3 \mathrm{~m}\). A further sloping descent for 4 m down a rift below the chamber becomes too tight. Although the entrance draughts strongly, the explorers were unable to locate air movement underground until a trip in October 2018 which found the draught coming from a which found the draught coming from a narrow rift. The rift was excavated on a number of occasions. (Photos taken). The surface surroundings were also investigated looking for a sandstone bed (evident in the cave) on the opposite side of the road and looking around the uphill side of the epression.
Further work was carried out in May 2019. Reference: anon., 2015b (Easter logbook); anon., Reference: anon., 2015b (Easter logbook); ano
2018d (autumn logbook); anon., 2019b (Easter logbook)
Entrance picture : yes
Underground pictures :
Video:
Detailed surve
Line Survey
On area surve Survex file
x
4138: dig
Riolastras 30T 4553834802744 (Datum: ETRS89. Accuracy code: G) Altitude 132 m
Area position Area position

Twin fenced depressions which are possible dig sites.

Reference: anon., 2015b (Easter logbook)
Entrance picture : yes
Underground pictures
Video:
Detailed survey
Line Survey
Survex file :
x
4139: cave
Riolastras 30T 4551654802855 (Datum: ETRS89. Accuracy code: G) Altitude 148 m
Accea position
A small, draught-free hole in the edge of woodland.

Reference: anon., 2015b (Easter logbook) Entrance picture : yes Underground pictures Video:
```

Detailed sury

```
Line Survey:
On area surve
Survex file :
Survex fil
X

4140: cave
Riolastras 30T 4550824802997 (Datum: ETRS89 Accuracy code: G) Altitude 146 m Length 3 m Depth 3 m Area position

Updated 10th October 2015
A small entrance descends steeply for 3 m to where floor and roof meet.

In August 2015 it was re-explored and described as "a small cave under a ledge steep slope small blind pit". The GPS steep slope small blind pit". The GPS
reading then was 04550814802983.

Reference: anon., 2015b (Easter logbook); anon., 2015c (summer logbook) Entrance picture : yes
Underground pictures
```

Video:

```
Detailed survey
Line Survey
On area survey :
Survex file :
\(\times\)

4141: shaft
Riolastras 30T 455051 4803046 (Datum: ETRS89. Accuracy code: G) Altitude 132 m Length 45 m
Area position

Updated 12th October 2015

MATIENZO UNDERGROUND -
descriptions (printed 19002 2002
Volume 6 - page 39

Initially thought to be about 6 m deep, the
shaff was explored to a denth of 17 m with shaft was explored to a depth of 17 m . There
three distinct levels on the way down may be a possible way on up a climb in the large chamber at the base

Reference: anon., 2015b (Easter logbook); anon. Reference: anon., 2015b
2015c (summer logbook)

\section*{4142: dig}removed to reveal a fist-sized hole in solidlimestone. "Not a good prospect".
```

Reference: anon., 2015b

```
Entrance picture
Underground pictures:
Underground pict
Video:
Detailed survey .
Detailed sur
Line Survey
On area survey
On area sur
Survex file

4144: Laberinto 2, Cueva

Updated \(8^{\text {th }}, 20^{\text {th }}\) May 2016; 12th January 2018

Three entrances explored on a levelled area, down valley from Famous Five Cave. Although all are within 20 m of each other, on the scar, there is no obvious connection between them.
The positions of sites 4145 and 4146 were altered January 2018 to more accurately show their position on the cliff line.

This 'main' entrance was dug out to reveal 5 m of walking passage to a 4.5 m climb down over stal, to a complex of down over stal, to a complex of
interconnected passages - "a series of interconnected passages - "a series of trenches complicated by calcite flows". Th estimated total length was 100 m . The entrance was partially walled before depating at Easter 2015. When 75\% was surveyed at Easter 2016, the length was 148 m .

The sites close by are 4145 and 4146 . The positions of these sites were altered January 2018 to more accurately show their position on the cliff line.

Reference: anon., 2015b (Easter logbook); anon. Reference: anon., 20
2016b (Easter logbook Entrance pictures : Easter 2014 \& 2015 Underground pictures : Easter 2015 : Easter 2016 Video :
Video :
Detailed survey : pdf Easter 2016 Line Survey : On area survey
on the scar, there is no obvious connection between them.

A narrow, steeply descending hole, 8 m deep. At the bottom there is standing room deep. At the bottom there is standin
in a rift, which quickly closes down.

The sites close by are 4144 and 4146 . The positions of sites 4146 and 4145 were altered January 2018 to more accurately show their position on the cliff line.

Reference: anon., 2015b (Easter logbook) Reference: anon., 2015
Entrance picture : yes Underground pictures Video :
Detailed survey Line Survey On area survey
Survex file : Survex file

X

\section*{4146: cave}

Navajeda 30T 4446904801160 (Datum: ETRS89. Accuracy code: A) Altitude 64 m

\section*{ength 10 m Depth 2 m}

Area position
Updated 5th January 2018
Three entrances explored on a levelled area Three entrances explored on a levelle
down valley from Famous Five Cave. down valley from Famous Five Cave.
Although all are within 20 m of each other, Although all are within 20 m of each other,
on the scar, there is no obvious connection between them.

A partially excavated entrance on the right of the rock face, 2 m deep with 9 m of passage. The site ends in a small, decorated chamber, with no way out.

The sites close by are 4144 and 4145 . The positions of sites 4146 and 4145 were positions of sites 4146 and 4145 were
altered January 2018 to more accurately altered January 2018 to more accur
show their position on the cliff line.

Reference: anon., 2015b (Easter logbook) Entrance picture, : yes Underground pictures Video: Detailed survey Line Survey On area survey Survex file

X
4147: dig
La Collada 30T 4487604799269 (Datum: ETRS89. Accuracy code: G) Altitude 355 m
Area position
A depression in the hillside filled with brambles. There appear to voids and a draught behind large, movable boulder.
```

Reference: anon.,
Entrance picture, : Underground picture(s): Detailed Surve On area sur Survex file:
4148: hole
4148: hole Accuracy code: G) Altitude 366 m
Area position

```

A fenced hole in the hillside above a farm building.
```

Reference: anon., 2015b (Easter logbook)

```
Entrance picture :
Underground picture(s):
Detailed Survey :
Line Survey
On area survey
Survex file :

\section*{4149: cave}

Hornedo 30T 4484394800296 (Datum: ETRS89. Accuracy code: G) Altitude 168 m

\section*{Area position}

A cave entrance in the forest below the logging track. There is a carnivore skull inside and there area signs of previous exploration.
```

Reference: anon., 2015b (Easter logbook)
Entrance picture
Underground picture(s):
Detailed Surve
Line Survey
Survex file
X
4150: shaft
La Collada 30T 448817 4799383 (Datum: ETRS89.
Accuracy code: G) Altitude 375m
Accuracy
Area position
MATIENZO UNDERGROUND
descriptions (printed 19002 2022
Volume 6 - page 4

```

A cleft in the hillside north of the farm building. An open 4 m deep pot with anima bones on the floor. Unexplored - but the way on is visible.

Reference: anon., 2015b (Easter logbook) Entrance picture :
Underground picture(s): Detailed Survey : Line Survey : On area survey Survex file

\section*{4151: shaft}

La Gatuna 30T 4491914799540 (Datum: ETRS89 Accuracy code: G) Altitude 259 m

An obvious ( 2 m wide and 5 m long) rift in the plantation, 15 m north of the logging track. No obvious ways on

Reference: anon., 2015b (Easter logbook) Entrance picture \(\qquad\)

\section*{4153: dig}

La Gatuna 30T 449199479561 (Datum: ETRS8 Accuracy code: G) Altitude 254 m

A hole in the slope, on same the level as A sole 4151 and 4152 . A tight fissure which
sites sites 4151 and 4152 . A tight fissure which
has been partially excavated but is too tight.

Reference: anon., 2015b (Easter logbook)
Entrance picture
Underground picture(s)
Detailed Survey
Line Survey:
On area surv
Survex file

Reference: anon., 2015b (Easter logbook)
Entrance picture
Underground picture(s
Video: yes (YouTube)
Detailed Surv Line Survey
On area sur On area sur
Survex file

\section*{X}

4155: hole
La Gatuna 30T 4492204799578 (Datum: ETRS89 Accuracy code: G) Altitude 240 m
Area position
A hole in the rock face adjacent to the forest track.

Reference: anon., 2015b (Easter logbook) Entrance picture
```

Underground pictur

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

4156: depression wood. Not fully investigated.

Reference: anon., 2015b (Easter logbook)
Entrance picture :
Underground picture(s)
Video
Detailed Survey
MATIENZO UNDERGROUND site descripioions (printed 190212024) Volume 6 - page 42

Line Survey
On area sur
```

Survex file :

```
x

4157: depression
La Gatuna 30T 4492884799546 (Datum: ETRS89. La Gatuna 30T 4492884799546 (
Accuracy code: G) Altitude 215 m
Area position
A large ( \(20 \times 30 \mathrm{~m}\) ) oval depression in the wood adjacent to the logging track which was too overgrown to search properly.

Reference: anon., 2015b (Easter logbook)
Entrance picture :
Entrance picture : Underground picture(s): Video:
 Line Survey :
On area surve
Survex file :
X
4158: hole
Hornedo 30T 4486624800299 (Datum: ETRS89. Accuracy code: G) Altitude 147 m
Area position
A hole/dig next to one of the the parking spots for the BigMat Calf Hole area.
```

Reference: anon., 2015b (Easter logbook)

```
Reference: anon.,
Underground picture(s):
Video:
Detailed Survey
Line Survey
On area surve
Survex file
X
4159: hole
4159: hOle 4800373 (Datum: ETRS89
Hornedo 30T 448503 4800373 (D
Accuracy code: G) Altitude 163 m
Accuracy code
Area position
A hole in a depression.
Reference: anon., 2015b (Easter logbook)
Reference: anon.
Entrance picture
Entrance picture :
Video:
Detailed Survey
Line Survey
On area survey
Survex file:
x
4160: Isobel's Cave
Hornedo 30T 4486544800294 (Datum: ETRS89
Hornedo 30T 4486544800294 (D
Accuracy code: G) Altitude 148 m
Area position
(Description lost). May be the same as site
(Descr
4158.
Reference: anon., 2015b (Easter logbook)
Entrance picture
Underground picture(s):
Uideo:
Detailed Surv
Line Survey
On area surv
On area sury
Survex file :
x

4161: shaft
N Vega 30T 4496904795834 (Datum: ETRS89.
Accuracy code: G) Altitude 328 m Accuracy code: G) Altitude 328 m Length 5 m Depth 5 m Area position
A 5 m deep choked shaft.
Reference: anon., 2015b (Easter logbook)
Entrance picture : Entrance picture Underground picture(s): Video: Detailed Survey On area survey : Survex file :
X
4162: shaft
N Vega 30T 4497094795846 (Datum: ETRS89.
Accuracy code: G) Altitude 322 m N Vega 30T 4497094795846 (Datu
Accuracy code: G) Altitude 322 m
Area position
An undescended, covered shaft that appears choked.
```

Reference: anon., 2015b (Easter logbook)

```
Entrance picture
Underground picture(s)
Underg
Video:
Detailed Survey
Line Survey
On area survey :
Survex fil
X
4163: shaft
4163: Shaft
N Vega 30T 4497114795861 (Datum: ETRS89
N Vega 30T 4497114795861 (Datu
Accuracy code: G) Altitude 318 m
Accuracy code: G) Altit
Length 6 m Depth 6 m
Length 6 m D
Area position
MATIENZO UNDERGROUND - site descripitions (printed 19002/202
Volume 6 - page 4
\[
\text { A } 6 \mathrm{~m} \text { deep shaft with a draughting dig on }
\] the right at the base.

\title{
Reference: anon., \\ Reference: anon., 2015b (Easter logbook
}

Entrance picture :
Underground picture(s
Video:
Detailed Survey Line Survey On area survey Survex file

4164: shaft
N Vega 30T 4497144795859 (Datum: ETRS89 N Vega 30T 4497144795859 (Da Accuracy code: G) Alti
Length 7 m Depth 7 m Length \(7 \mathrm{~m} \mathbf{D}\)
Area position

This site is 5 m east of site 4163 . A 7 m deep, choked shaft with a draught.

Reference: anon., 2015b (Easter logbook) Entrance picture Underground picture(s)
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Video:

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Line Survey
Line Survey:
On area survey
On area surv
Survex file :

\section*{4165: shaf}

N Vega 30T 4497934795909 (Datum: ETRS89 Accuracy code: G) Altitude 286 m
Length 9 m Depth 5 m

\section*{Area positio}

Updated 19th September 2021
A 4 m diameter shaft with trees. It's 5 m deep, draughting in through a small, diggable choke
\[
\begin{aligned}
& \text { isitors to the area - there are a couple of } \\
& \text { vires and a lamp fittings still visible. }
\end{aligned}
\]

The site has seen a great deal of archaeological excavation. Most passages are the result of extensive digging and removal of sediments at the start of the twentieth century. Deposits have been dated to Musteriense, Solutrense, Magdaleniense and Aziliense. Some of the artifacts extracted are in the Museo de Santander. The short article in Ruiz Cobo J and Muñoz Fernández E, 2013 (EI registro arqueológico del valle de Miera, pages 378-379) summarises the cave history, provides a number of references and has a survey showing the position of possible markings. In the early 1950's the cave was gated and spiders were observed (Derouet \(L\), Dresco E, Dury M et Negre J, 1955, p65).
[The Fuente del Francés was a spa created by Genaro Toca Cagigal in the late nineteenth century, wanting to take advantage of existing medicinal waters very close to his home in Villaverde de Pontones. The building next to the "Fondín" and "Bathhouse" formed a complete resort for leisure, rest and cure. In the late 1870s he began to work with great success, but by the end of the century it closed. It remained abandoned until the then famous Dr. Morales decided to put it into operation again, exploiting the waters for medicinal purposes. The "Agua de Hoznayo" ended up being the most common bottled water in most Cantabrian homes until its closure in 1980.

Adapted from
://trasmeranos blogspot com es/2011/0 http://trasmeranos.blogspot.com.es/201
2/la-fuente-del-frances-hoznayo.html ]

Reference: Derouet L, Dresco E, Dury M et Negre J, 1955; Muñoz E, 1988; Ruiz Cobo J and Muña
Fernández E, 2013; anon, 2015 ( summer Fernández E, 2013 ; anon., 2015c (summe
logbook); anon., 2015d (autumn logbook) Entrance pictures : bottom \& top entrances
Underground pictures: 2015 Entrance pictures: bottom
Underground pictures: 201
Video: Round trip 2015 Video: Round trip, 201 Detailed Survey: from Ruiz Cobo J and Muñoz
Fernández E, 2013, p379 : survey, Fernández E, 2013, p379: survey
survey with the Gruta del Diablo survey with
Line Survey
On area survey :
Survex file : yes : with Gruta del Diablo (4244)

4172: dig
Alisas 30 T 4474854793963 (Datum: ETRS89, Accuracy code: G) Altitude 692 m Area position

\section*{4173: Shelob, Cueva}

\section*{Riaño 30T 4516744800646 (Datu}

Accuracy code: G) Altitude 162 m Area position

Updated 18th April, 30th November 2016, 24th May 2017; 12th January 2018; 7th 24th May 2013
January 2023

Before Easter 2017, this was about 50m in plan and 30 m in height away from the southeast corner of Cueva-Cubío del Llanío. However, April 2017 extensions has brought the possibility of connection much closer, with the two caves being only a few metres apart and at the same altitude.

A low entrance into low, excavated passage that currently ends at a low dig that was excavated in November 2015, Easter 2016, July 2016 (when no forward progress was made) and November 2016, when the team worked on lowering the floor in the tight section of the entrance passage and at the furthest point forward. The site was also cleared of debris. More digging occurred ir April 2017 and excavators "can still see onwards".

In October 2022, the entrance couldn't be reached because of vegetation. But the nearby site 5227 was discovered.

Reference: anon., 2015c (summer logbook); anon. 2016b (Easter logbook) (November 2015 lo
account pasted here); anon., 2016b (Easter logbook); anon., 2016d (autumn logbook); anon., 2017b (Easter logbook); anon., 2022e (Christma logbok)
Entrance pictures : summer 2015 Underground pictures: yes

MATIENZO UNDERGROUND site descripitions (printed 1902/2024) Volume 6 - page 46
```

Video:
Detailed Surve

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On area surv
Survex file

\section*{4174: shaft}

RiaÃ \(\pm 0\) 30T 4517444800616 (Datum: ETRS89. Accuracy code: G) Altitude 164 m Length 12 m Depth 7 m Length 12 m
Area position

Updated 24th May 2017
A small, undescended shaft on a bulldozed track which was opened up in April 2017. A 3 m drop ends on a debris slope and a mud wall. There is a small chamber and rift unde the entrance that closes down. There is no draught to provide encouragement for digging.

Reference: anon., 2015c (summer logbook); anon. Reference: anon., 2015
2017b (Easter logbook) Entrance pictures : yes Underground pictures Video:
Detailed Survey Line Survey On area sur
Survex file x
4175: shaft
Riaño 30 T 4517114800633 (Datum: ETRS89. Accuracy code: G) Altitude 165 m Length 13 m Depth 8 m
Area position Area position

Updated 28th October 2016
A small shaft on a bulldozed track. A narrow 3.5 m drop ends at a narrow rift heading approximately east, continuing very narrow. This hole was pushed by descending 8 m then along be passable by a thin person.

Reference: anon., 2015c (summer logbook); anon Reference: anon., 2015c
2016c (summer logbook) 2016c (summer logbook)
Entrance pictures: yes
Underground pictures: Underground pictures
```

deo.

```
Detailed Surve
Line Survey :
Line Survey:
On area surve
On area sury
Survex file :

4176: cave
Riaño 30T 451645 4800646 (Datum: ETRS89 Riaño 30 T 4516454800646 (Datu
Accuracy code: G) Altitude 152 m Accuracy code
Area position

A small tube leads off towards site 4173 but it needs digging.

\begin{abstract}
Reference: anon., 2015c (summer logbook) Reference: anon., 2015c (summer
Entrance pictures: August 2015 Underground pictures:
```

Video:

```
Detailed Survey
Detailed Surve
Line Survey :
On area surve
On area surv
Survex file :
X

4177: dig
Riaño 30T 4522344799456 (Datum: ETRS89. Accuracy code: P) Altitude 244 m
Area position
\end{abstract} Area position

Updated 10th November 2021
A dig in a large, wooded depression. The site was correctly repositioned in September 2021 and excavated on a couple of days. A narrow shaft was revealed which will require narrow shaft was revealed which will require
a major dig. The earth bank needs shoring a major dig. The earth bank needs shoring debris. Little draught detected. Ongoing, but debris. Little draug

Reference: anon., 2015c (summer logbook) ??
anon., 2021d (autumn logbook)
Entrance pictures :
Underg
Detailed Survey :
Line Survey
On area surve
Survex file :

\section*{Updated 10th January 2022}

A tight rift near a fence. Stones fall about 6 m but there is no draught.

\section*{Underground pis : De}

\section*{4179: cave}

\section*{4182: Cuba Libre, Cueve}
draughting hole "near to the top of the
shakehole, camouflaged by grass and bracken." A hole further down the slope was documented as site 5352 .

Reference: anon., 2015c (summer logbook); anon Reference: anon., 2015c (summer logbook);
2016b (Easter logbook); anon., 2023 b (Easter 2016b (Easter logbook); anon., 2023b (Easter
logbook)
Entrance pictures : summer 2015 : Easter 2016 Entrance pictures : summer 2015 : Easter 2016
Underground pictures: summer 2015 : Easter Undergr 2016 Video: Discovery day, 2015 (YouTube) : Easter 2016 1 - by Chris Binding : 2-by Alex Ritchie (both on YouTube) Detailed Survey : see the current Sistema de Torca la Vaca survey Line Survey : On area survey Survex file : See Vaca centre line survey : Hornedo area
Passage direction rose diagram: 30/6/2018

\section*{X}

\section*{4183: cave}

Riolastras 30T 454956 4803472 (Datum: ETRS89. Accuracy code: G) Altitude 107m Area position

An open entrance in a scar near to a barn ads to passage which quickly lowers to a short crawl before enlarging at a small standing heightÂ chamber. The continuing crawl quickly becomesÂ very tight and chokes. (HL)

Reference: anon., 2015c (summer logbook) Entrance pictures : ye Underground pictures: yes Video:
Detailed Survey Line Survey On area surv
Survex file :

X
4184: shaft
Riolastras 30T 4551474803095 (Datum: ETRS89. Accuracy code: G) Altitude 130 m Length 19 m Depth 8 m Area position

Updated 24th September 2018
A \(2 m\) deep drop lands in a small chamber with the way on through a tight tube dropping down 3 m then generally corkscrewing down to a total depth of 12 m . It maybe possible to dig into a rift at the bottom. The site was surveyed and further photographed in August 2018. (A previous photographed in August 2018. (A previou
grid reference is 30T 4551434803076 .)

Reference: anon., 2015c (summer logbook); anon 2018c (summer logbook)
Entrance pictures : 2015 \& 2018
nderground pictures: 2015 : 2018
Video:
Detailed Survey : pdf, 2018 Line Survey On area survey :
Survex file : 2018

4185: cave
Riolastras 30T 455081 4802965 (Datum: ETRS89. Accuracy code: G) Altitude 148 m Area position

A sloping tube that needs digging to reach a left hand bend.

Reference: anon., 2015c (summer logbook) Entrance pictures : yes
Underground pictures: Underground pictures: Video:
```

Detailed Surve

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Line Survey On area surv
Survex file : X
4186: cave
Riolastras 30T 4550054803046 (Datum: ETRS89. Accuracy code: G) Altitude 130 m Accuracy cod
Length 15 m Area position

The entrance is under a scar and leads to 15 m of hands-and-knees crawling in a nice phreatic tube. It ends at tubes which are to tight.

Reference: anon., 2015c (summer logbook) Entrance pictures : yes
Underground pictures: Undergr
Video: Detailed Survey : Line Survey On area surve
Survex file Survex file :

4187: shaft
RiaÃ 10 30T 4517644800614 (Datum: ETRS89. Accuracy code: G) Altitude 166 m Area position

MATIENZO UNDERGROUND


\section*{4188: Shrewd Find}a crawl at the bottom was seen withboulders that will dig.

At the end of January 2018, a passage (Up \& Running) entered at a c+2 climb to the south of Mulu Junction in Cueva-Cuvío del Llanío ended after about 50m at a

\section*{4190: Track Hole}
A slump at the same level as site 4181. This goes down 1.5-2m

Reference: anon., 2015c (summer logbook)
Entrance pictures :
Entrance pictures :
Video:
Detailed Survey Line Survey On area surve Survex file

\section*{X}

4192: shaft
El Naso 30T 4510664797027 (Datum: ETRS89. Accuracy code: G) Altitude 408m Depth 3m
Area position
Updated 17th May 2019
A hole at the rear of a shakehole which is covered by a big boulder with a red plastic drum further down hole. An easy climb down with dry walls that was eventually
din 2019. explored in March 2019.

Reference: anon., 2015c (summer logbook); anon. Reference: anon., 2015
2019b (Easter logbook)
Entrance pictures : 2019
Underground pictures: 2019
```

Video:

```
Detailed Survey
Detailed Surv
Line Survey :
On area surve
Survex file :
x
4193: hole
El Naso 30T 4510614797121 (Datum: ETRS89.
Accuracy code: G) Altitude 379 m
Accuracy code
Area position

A nettle-filled depression with a possible hole beneath the rear wall.
Reference: anon., 2015c (summer logbook)
Entrance pictures :
Untrance pictures:
Video:
Detailed Survey
Line Survey
Letailed Sur
On area survey :
Survex file :
x
4194: shaft
El Naso 30T 451088 4797093 (Datum: ETRS89.
Accuracy code: G) Altitude 384 m
Area position

Updated 4th October 2019
An open shaft covered with logs / fence posts that appeared to be 4-5m deep. It was explored down a p5 to a slope down passage to left and to the right, ending in a
small slit. small slit.
```

Reference: anon., 2015c (summer logbook)
Entrance pictures : yes
Underground pictures
Video:
Detailed Survey
Detailed Su
Line Survey :
Survex file
x
4195: hole
El Naso 30T 451030 4797041 (Datum: ETRS89.
Accuracy code: G) Altitude 409m
Area position
This site looks "very cave-like" at the base of a 15 m long, heather-topped scar / cave wall.
Reference: anon., 2015c (summer logbook)
Reference: anon., 2
Entrance pictures :
Entrance pictures:
Underground pictures
Video:
Detailed Survey Line Survey On area surve
Survex file Survex file : Accuracy code
Area position
A hole beneath a tree in a shakehole close to a scar base.
Reference: anon., 2015c (summer logbook) Entrance pictures : Underground pictures Video: Detailed Survey Line Survey Survex file :
MATIENZO UNDERGROUND -
descriptions (printed 190022022
Volume 6 - page 51

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4199: shaft
S Vega 30T 4509374794947 (Datum: ETRS89 Accuracy code: G) Altitude 424 m

\section*{4200: shaft}

El Naso 30T 4505394797342 (Datum: ETRS89. Accuracy code: G) Altitude 494 m Length 4 m Depth 4 m Area position

Updated 19th September 2021
A \(4 m\) deep, blind shaft
Reference: anon., 2015c (summer logbook); anon., 2021c (summer logbook)
Entrance picture : July 2021
Underground pictures:

MATIENZO UNDERGROUND site descrintions (printed 1902/2024) Volume 6 - page 52

\section*{4202: shat} San Antonio 30T 4472744801407 (Datum ETRS89. Accuracy code: G) Altitude 98 m
Length 6 m Depth 6 m Area position

A 5.5 m deep shaft. The only way on at the base is a 200 mm diameter tube that base is a
draughts.

Reference: anon., 2015c (summer logbook)
Entrance pictures : yes Entrance pictures : yes Underground pictures Video : Line Survey : On area survey Survex file :
x
4203: cave
San Antonio 30T 4472624801398 (Datum ETRS89. Accuracy code: G) Altitude 98 m Length 30 m Depth 5 m Area position

This site is found in the next small depression uphill from site 4202. A slope descends 5 m to a T -junction. A climb up to the right ends in a calcite choke. To the left, a drop down gets tight although it could be pushed. There is a slight draught here.

Reference: anon., 2015c (summer logbook) Entrance pictures : yes Underground pictures Video:
Detailed Survey Line Survey Survex file :

X
4204: cave
San Antonio 30T 4472194801253 (Datum San Antonio 30T 4472194801253 (Datum
ETRS89. Accuracy code: G) Altitude 116 m Length 15 m Depth 5 m Area position

The entrance is under a rock face and is a steep slope for six metres into a choked \(8 \times\) 6 m chamber.

Reference: anon., 2015c (summer logbook) Entrance pictures : yes Video :
Detailed Survey : Line Survey On area surve Survex file :
x
4205: cave
San Antonio 30T 4472194801249 (Datum: ETRS89. Accuracy code: G) Altitude 116 m Length 10 m Depth 5 m Area position

A dodgy drop down between boulders where a small opening leads to a rift. A 4 m climb up chokes and the way down the rift looks passable but tight. It is possible to see 5 6 m and it might be worth another look

Reference: anon., 2015c (summer logbook) Entrance pictures : yes
Underground pictures Underground pictures

\section*{Video:}

Detailed Survey
Line Survey
On area surv
Survex file :
X
4206: dig
Cobadal 30T 448034 4798561 (Datum: ETRS89, Accuracy code: G) Altitude 174 m
Accuracy code
Area position
A dig on the opposite side of the road from the farm which is the usual parking spot for the farm which is the usual parking s
Snottite Cave. Several hours digging Snottite Cave. Several hours digging
revealed some very large and dangerous revealed some very large and dan
blocks so the site was back-filled.

Reference: anon., 2015c (summer logbook)
Entrance pictures : yes Entrance pictures : yes Underg Detailed Survey : Line Survey On area surve
Survex file :
x
4207: cave
El Naso 30T 4513814796913 (Datum: ETRS89. Accuracy code: G) Altitude 355 m Length 8 m Depth 2 m Area position

A depression above site 145 contains an old cave passage with roof collapse, 9.5 m long on \(185^{\circ}\) magnetic. The rift is about 2 m deep and 2.5 m wide and there is a phreatic pocket on the northwest wall. There is a dig

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
Volume \(6-\) page 5
prospect and has no draught.

Reference: anon., 2015c (summer logbook)
Reference: anon.,
Entrance pictures : yes Entrance pictures : yes
Underground pictures Video :
Detailed Survey : Line Survey On area survey Survex file

\section*{4208: cave}

El Naso 30T 451321 4797099 (Datum: ETRS89 El Naso 30T 4513214797099 (Dat
Accuracy code: G) Altitude 324 m Accuracy code: G) Altit
Length 4 m Depth 4 m Area position

A cave in thick brambles, 4 m deep to a A cave in thick brambles, 4 m deep to a
small chamber and dig that has no draugh in warm weather.

Reference: anon., 2015c (summer logbook) Entrance pictures : yes Underground picture
```

Video :

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

\section*{4209: cave}

El Naso 30 T 4511154797161 (Datum: ETRS89 Accuracy code: G) Altitude 354 m

\section*{4210: Cefrales, Cueva de}

\section*{(bottom entrance}

S Vega 30T 4507974795390 (Datum: ETRS89

\section*{Accuracy code:}

The bottom entrance to Cueva de Cefrales found in a shallow depression above the track up to the village water tank. All details about this entrance and the cave are found in site 42.

Reference: anon., 2015c (summer logbook)
Reference: anon., 2015 c (summ
Entrance pictures : see site 42
Entrance pictures: see site
Underground pictures : see site 4
Video :
Detailed Survey :
Line Survey On area sur
Survex file :

\section*{4211: cave}

La Colina 30T 4531534796353 (Datum: ETRS89, Accuracy code: A) Altitude 507 m

\section*{Area positio}

Updated 17th May, 24th September, 11th December 2018

A square hole noticed in the rock face. An attempt has been made to reach it: Traversed leftward from about 60 m to the right along flake line. Reached bottom o next flake hading 45deg leftwards up to square hole. Simple rock problem but harder to reverse. Take a rope and abseil back from the hole?
It should be possible to inspect this hole by drone. See Easter 2018 logbook, dated 16/5/2018.

An aerial inspection by drone was attempted in the summer 2018 on a number of

\section*{logbook); anon., 2018d (autumn logbook)
Entrance pictures : possible route to the} Underground pictures

Updated 6th January 2024
A vegetated area containing an open hole on A vegetated area containing an open hole
the downhill edge. A short drop enters a the downhill edge. A short drop enters a was seen in December 2023.

Reference: anon., 2015c (summer logbook); anon. 2023e (Christmas logbook)
Entrance picture : yes
Video : discovery and exploration (YouTube) Detailed Survey
Line Survey
On area surve
Survex file :
x
4213: dig
La Secada 30T 4530344798064 (Datum: ETRS89. Accuracy code: G) Altitude 207 m
Area position Area position

Updated 6th January 2024
A large depression, with exposed limestone high up on the uphill side, has two possible digs in the base. This site is the eastern hole which has a slight draught but hasn't been dug. The other hole is site 4214.

Reference: anon., 2015c (summer logbook); anon int (Christmas logbook) Entrance picture .

\section*{Video :}
```

Detailed S

$$
\begin{aligned}
& \text { Dialled Surve Surve } \\
& \text { Lit }
\end{aligned}
$$

```
\[
\begin{aligned}
& \text { On area surve } \\
& \text { Survex file. }
\end{aligned}
\]

Survex file
X
4214: dig
La Secada 30T 4530284798062 (Datum: ETRS89. Accuracy code: G) Altitude 208 m Area position

Updated 6th January 2024
A large depression, with exposed limestone high up on the uphill side, has two possible digs in the base. This site is the western hole which has a good draught. The hole has been partly excavated revealing boulders and increasingly larger, open spaces. "Need a return." The other hole is site 4213. Site 4214 had "slumped in somewhat" when seen in December 2023.

Reference: anon., 2015c (summer logbook); anon. 2023e (Christmas logbook) Entrance picture : yes Video : Starting to excavate (YouTube) Detailed Surve
Line Survey : Line Survey On area surve

Site description (Nigel Dibben)
The entrance (about 3 m wide and 1 m high) lies close to the path about 10 m from the field gate between the field and the Risco waterfall
The 8.2 m -deep shaft (excluding a small hole in the floor) is a slot about 1 m wide and 6.5 m long as far as can be seen. At each end ( N and S ), the slot narrows. At the south end there is stalactite and a small hole in the floor drops another 2 m or so. There are lots of bones, probably cow and horse, as well as the remains of a barbed wire fence

This fossil shaft has no draught and has poor potential for extension

\section*{Reference: anon., 2015c (summer logbook)} Reference: anon., 2015c
Entrance pictures: yes Underground pictures: yes Video:
```

Detailed su

``` Line Survey: On area survey Survex file

MATIENZO UNDERGROUND
below) are found in site 0048 arious species of bats have been observed underground in this entrance.

Reference: anon., 2015c (summer logbook); anon 2017b (Easter logbook); anon., 2019f (Christmas 2017b (E
Entrance pictures : Easter 2017 Underground pictures Video :
Detailed survey
Line Survey
Survex file :
Passage direction rose diagram: South Vega System 30/6/2018

X
4222: shaft
Navajeda 30T 4448624800841 (Datum: ETRS89. Accuracy code: G) Altitude 138m Length 10 m Depth 8 m Area position

One of a set of 4 holes within 10 m or so of each other. This one is a narrow rift where small hole has been enlarged and a pitch descended to 8 m depth. Other nearby holes are 4223, 4224, 4225.
```

Reference: anon., 2015d (autumn logbook)

```
Reference: anon., 2015
Entrance picture: yes
Underground pictures
Video :
Detailed surve
Line Survey :
On area surve
Survex file :
X
4223: shaft
Navajeda 30T 4448614800851 (Datum: ETRS89
Navajeda 30T 4448614800851 ([
Accuracy code: A) Altitude 134 m
Accuracy code
Area position

A fenced shallow rift with a small hole at the eastern end. There is no draught.
```

Reference: anon., 2015d (autumn logbook)
Entrance picture : yes
Underground pictures
Video:
Detailed survey
Detailed sur
On area surve
Survex file :
x
4224: shaft
Navajeda 30T 444867 4800841 (Datum: ETRS89.
Navajeda 30T 444867 4800841 ([

```
Accuracy code: A) Altit
Length \(2 m\) Depth \(2 m\)
Area position

A 2 m deep shaft closes down.
```

Reference: anon., 2015d (autumn logbook)

```
Reference: anon.,
Entrance picture
Underground pit
Untrance picture :
Video:
Detailed survey
Line Survey
On area surve
X
4225: shaft
4225: Shaft
Navajeda 30T 4448594800839 (D
Accuracy code: A) Altitude 139 m
Accuracy code: A) Altit
Length 4 m Depth 4 m
Area position
A 3.5 m deep, unfenced slot which is choked
at the base.
Reference: anon., 2015d (autumn logbook)
Entrance picture :
Underground pictures
Video:
Detailed survey :
Line Survey
On area surve
Survex file :
x
4226: shaft
Navajeda 30T 4448994800807 (Datum: ETRS89.
Accuracy code: G) Altitude 152m
Length 2 m Depth 2 m
Area position

A fenced rift feature next to the track. It is 2 m deep and choked all round.
```

Rerence: anon., 2015d (autumn logbook)
Entrance picture :
Underground pictures
Underground pictu
Video:
Detailed survey
Line Survey
Survex file :
X
4227: shaft
Navajeda 30T 4449644800760 (Datum: ETRS89.
Navajeda 30T 444964 4800760 (D
Lccuracy code: G) Altit

```
Area position

MATIENZO UNDERGROUND - site descriptions (printed 191022 R2024

An enormous, limestone-sided, walk-in gulley, spanned by a large boulder. A rift at the end is 4 m deep and choked

Reference: anon., 2015d (autumn logbook)
Reference: anon., 20150
Entrance picture: yes
Underground pictures Video :
Detailed survey Line Survey: On area surv Survex file

\section*{4228: shaf}

Navajeda 30T 444984 4800722 (Datum: ETRS89 Navajeda 30T 444984 4800722 (
Accuracy code: G) Altitude 163 m Accuracy code: G) Altitu
Length 15 m Depth 12 m Area position

A large, open, fenced rift which is a 6 m pitch. At the base, a small hole has been pitch. At the base, a small hole has been shaft. A very narrow bedding at the base shaft. A very na
has no draught.

Reference: anon., 2015d (autumn logbook) Entrance picture : y Underground pictures Video :
Detailed survey Detailed sur
Line Survey Line Survey
On area sur Survex file

\section*{4229: cave} Hornedo 30T 4474834800137 (Datum: ETRS89. Accuracy code: G) Altitude 322 m Length 97 m Height 11 m Area position

Updated 7th January 2016
A resurgence cave pointed out by the farmer. An entrance crawl leads, after 30 m to a T -juntion with walking passage. The right branch ends in a well decorated chamber while the left branch ends in a choke.

Reference: anon., 2015d (autumn logbook) Entrance picture: yes Video:
Detailed survey : plan pdf : elevation pdf Line Survey : On area survey
Survex file : yes
A loose-sided shaft which is choked.
Reference: anon., 2015d (autumn logbook)

4233: shaft
as Calzadillas 30T 4477804796137 (Datum ETRS89. Accuracy code: G) Altitude 291m Length 3 m Depth 3 m
Area position
A 3m deep shaft / collapse adjacent to twin depressions. No way on..

Reference: anon., 2015d (autumn logbook) Entrance picture : yes Underground pictures Video
Detailed survey
Line Survey
Line Survey:
Survex file:
X
4234: cave Las Calzadillas 30T 4478294796153 (Datum ETRS89. Accuracy code: G) Altitude 303 m Length 3m Area position

A cave with no draught in the left bank of a gulley.

Reference: anon., 2015d (autumn logbook)
Reference: anon., 2015
Entrance picture : yes Entrance picture: yes
Underground pictures Video: Detailed surve
Line Survey : Line Survey On area surve Survex file

X
4235: shaft Ideopuerta 30T 4462904795630 (Datum: ETRS89 Ideopuerta 30 T 4462904795630
Accuracy code: G) Altitude 332 m Accuracy code: G) Altitı
Length 10 m Depth 8 m Length 10 m
Area position

A shaft downhill from sites 2749 and 2750. A choked 8 m deep pitch. Currently out of area

Reference: anon., 2015d (autumn logbook)
Entrance pictures Entrance pictures Underground pictures
```

Video :

```
Detailed survey
Detailed surve
On area survey
Survex file :
X
4236: shaft
Moncobe 30T 4463764797072 (Datum: ETRS89.
Accuracy code: G) Altitude 222 m
Length 6 m Depth 6 m
Area position

A 6 m choked rift at the side of the track. Currently out of area.
eference: anon., 2015d (autumn logbook) Entrance pictures :

4237: diq
Alisas 30T 4476454794404 (Datum: ETRS89 Accuracy code: G) Altitude 585 m Depth 4 m
Area position
A dig under a 1 m cliff needs a boulder moving to get in. Can see down some 4 m and the site seems to be draughting in

Reference: anon., 2015d (autumn logbook) Entrance pictures : yes Video:
Detailed survey Line Survey On area surve Survex file

Updated 4th October 2017
Site number originally used as a duplicate of site 722]

A draughting spring which is a possible dig. On a visit in August 2017, the water leve was dropped by syphon and a short dig undertaken at the blockage beyond. There was no draught at that time and any future dig would require at least 2 m of solid fill removing.

Reference: anon., 2016c (summer logbook); anon., 2017c (summer logbook)
Entrance pictures : 2016

MATIENZO UNDERGROUND - site descriptions (printed \(19002 / 202\)

Underground pictures :
Video : 2016 (YouTube)

\title{
A wide shaft, about 4.5 m deep with an oak
} tree in the entrance. The hole has a flat floor with a slope down to a bone-filled rift, with a rift going above but pinching out. A small inlet is possible from site 722 which is just above. No real prospect of digging. (This is a very obvious hole and must have been known previously?)

Reference: anon., 2015d (autumn logbook); anon., Reference: anon., 2015d
2016c (summer logbook) Entrance pictures : yes Underground pictures : y Undergr
Video
Detailed survey : pdf
Line Survey :
On area survey
Survex file : yes

\section*{4240: shaft}

\section*{Alisas 30T 4478194794613 (Datum: ETRS8} Accuracy code: G) Altitude 541 m

\section*{Length 20m Depth 15 m}
```

Area positior

```

Updated 28th October, 11th November 2016
A shaft with a rift top and block over. The depth was Disto'd to 10.5 m but rocks bounce further. When explored in Augus 2016, the tight entrance was opened up and the \(4 \times 1.5 \mathrm{~m}\) rift descended 15 m to a rockchoked, draughtless floor.

Reference: anon., 2015d (autumn logbook); anon., Reference: anon., 2015d (autumn lo
2016c (summer logbook)
Entrance pictures : 2015 and 2016

\section*{4241: depression}

Alisas 30T 4477564794710 (Datum: ETRS89 Alisas 30 T 4477564794710 (Dat Area position

A depression found when looking for site 0722 which could not be found This site could be it if now blocked by rubbish, etc.
```

Reference: anon., 2015d (autumn logbook)

```
Entrance pictures : yes
Underground pictures
Video :
Detailed survey
Line Survey
On area sur
On area sur
Survex file
4242: shaft
GarzÃ³n 30T 4493944803605 (Datum: ETRS89
Accuracy code: G) Altitude 236 m
Length 5 m Depth 5 m
Area position
A choked 5m deep shaft
References: anon.,
Entrance picture :
Underground picture(s):
Detailed Survey
Line Survey :
On area survey
Survex file :

\section*{4243: dig}

Hoznayo 30T 4434414804691 (Datum: ETRS89. Hoznayo 30T 4434414804691 (
Accuracy code: G) Altitude 76 m

A small hole that needs digging out and possibly capping. Rocks fall a couple of possibly capping. Rocks fall a couple
metres. (This was not found at Easter 2016 and is possibly 10 mW of site 4395.)

Reference: anon., 2015d (autumn logbook); anon., 2016b (Easter logbook
Entrance pictures : yes
Underground pictures
Video :
Video
Detailed su
Line Survey

\section*{On area sur
Survex file:}

\section*{4244: Diablo, Gruta del} Hoznayo 30T 4429664804741 (Datum: ETRS89. Accuracy code: A) Altitude 28 m Length 18 m

An impressive limestone arch through which the río Aguanaz flows. The upstream end also has the bottom entrance to site 4171, Cueva de la Fuente del Francés. The grid reference is for the downstream, northern entrance. Just north of here a dam maintains deep water under the arch.
```

Reference: anon., 2015d (autumn logbook)

```
Reference: anon., 2015 d
Entrance pictures : yes
Underground pictures :
Video:
Detailed survey : survey with Cueva de la Fuente
del Francés
Line Survey
On area survey :
Survex file : yes: with Cueva de la Fuente del
X
4245: dig (2149 (French: SCD))
Alisas 30T 4474964793162 (Datum: ETRS89
Accuracy code: A) Altitude 552 m
Accuracy cod
Length 5 m
Area position

Updated 12th February, 28th October 2016; 24th September 2018; 17th November 2022

A probably choked hole at the base of the depression containing Torca del Hoyón. On depression containing Torsa de hoy or \(7 / 8 / 1954\), entry was possible for 7 or 8 m . (Derouet L, Dresco E, Dury M et Negre J, 1955. p55)

When inspected more thoroughly at the end of August 2016, it was thought that the hole may flood up from below and that it "would take some work to make any progress".

Reference: Derouet L, Dresco E, Dury M et Negre J Reference: Derouet L, Dresco E, Dury M et
1955; anon., 2015 d (autumn logbook); anon. 2016a (January, February logbook); Simonnot G, 2016; anon., 2016c (sum Entrance pictures : yes (with Torca del Hoyón) Entrance pictures: yes
Underground pictures Video :
Detailed survey: sketch 2016
Line Survey: Line Survey
On area survey :
Survex file : On Torca del Hoyón doline surface
survey
survey
X
4246: Hoyón 2, Torca del (2425 (French: SCD))
Alisas 30T 4475034793141 (Datum: ETRS89 Accuracy code: A) Altitude 570 m
Length 124 m Deph 46 m Length 124 m Depth 46 m Area position

Updated 12th February, 8th May, 28th October, 11th November 2016; 24th September 2018; 3rd March 2020; 22nd September, 17th November 2022
[Estimated length]
A couple of holes on the east side of the Torca del Hoyón depression. They lie each side of a fence in the wood and a stream can be heard inside. Some work was required at the top of the shaft before it was explored.

This was part explored at Easter 2016 down a p6 then a 2 m climb where 2 streams meet. At the end of August rocks were cleared from an going rift passage. (The stream, which was a small trickle, vanished to the west side into the floor.) After about 8 m it became a little low and the passage dropped through a squeeze into the dropped through a squeeze into the
continuation of the streamway. Crawling in pools for about 8 m in a rectangular passage \(0.5 \times 1.2 \mathrm{~m}\) led to a calcited mud and gravel bank. This has been excavated to allow continued crawling to a small pitch. There is a steady inward draught. [Passage description (now out-of-date): Terry Whitaker]

Simonnot G, 2018 has an account of the August 2016 dig.

On April 7th, 2016, at about 1430, 5 litres of optical brightener were injected and a strong positive was detected at Comellantes on 10th April and found to be still positive on 10th April and found to be still positive
on April 13th. Detectors were placed in a on April 13th. Detectors were placed in a
number of other resurgences as described ir number of other resurgences as describe
the Easter 2016 summary: the Easter 2016 summary:
1: the stream below Cueva del Arenal
(0035) where it joins the stream in the (0035) where it joins the stream in the valley running down on the south side, 2: Cueva del Molino resurgence (0791) 3: the Bustablado river just upstream of site 791,
4: Fuente Aguanaz (0713), and
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 \(\begin{gathered}\text { Volume } 6-\text { page } 6\end{gathered}\)

5: Fuente Molino (2364) near La Cavada.
This test confirms one made many years ago, which was suspect due to possible contamination, and shows that the South
Vega System must extend at least to the Alisas road area, confirming it should extend into the large blank area to the west of the present system. Together with last yearâ \(\epsilon^{\text {TM }}\) s test from Cueva Vallina (0733) this more than suggests that there is potential for a 100 km plus system.

A Tejuelo group has been in the cave some time in the winter 2019 / 2020 but no more details are known. Further work is known about, but is not yet for publication. (See JSC, card index)

Reference: anon., 2015d (autumn logbook); anon., Reference: anon., 2015d (autumn logbook); anor
2016 a (January, February logbook); anon., 2016b (Easter logbook); ; anon., 2016c (summer logbook);
(Jisy Simonnot G, 2018,

\section*{4247: Tilana, Torca (2134}

\section*{(French: SCD))}

Alisas 30 T 4470504793404 (Datum: ETRS89.
Accuracy code: G) Altitude 530 m Accuracy code: G) Altitude 530 m Length 158m Depth 59n Area position

The descent takes place along the
The descent takes place along the southern wall, that is to say opposite the creek. This allows us to see the alternation of strata, first limestone-sandstone then sandstone for the last 7 meters. On the opposite wall, this impermeable level is also evidenced by a tributary which falls about twenty meters below the bottom of the chamber. To reach the latter, the temporary bed of a stream coming from a small rapidly impenetrable duct (Upstream Gallery) is

It winds between the scree and the detritus which becomes rarer. Then, towards -45 m ,

A previous position puts it possibly on the \(N\)
side of a new track rather than in the field. side of a new track rather than in the
ETRS89 04472434793368 . Which is correct?

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

Three metres inside intersects a small rivulet from a nearby sink. Downstream, the route continues for five meters in a lon route continues for five meters in a low
gallery, 2 m wide. It becomes impenetrable gallery, 2 m wide. It becomes imp
occasionally becoming higher but occasionally becoming higher but unfortunately too small. A continuation
seems feasible but there is no draught. The seems feasible bas investigated by the SC Dijon in site wa
2013.
Reference: anon., 2015d (autumn logbook); Reference: anon., 2015d (autumn logbook);
Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance picture : yes Video:
```

etailed s

``` Line Survey : On area survey Survex file

X
4249: Gallinero, Torca del (2123

\section*{(French: SCD))}

Alisas 30T 4466304793275 (Datum: ETRS89 Accuracy code: G) Altitude 360 m Length 9m Depth 6 m Area position
Updated 12th February 2016; 24th September 2018; 17th November 2022 from the French, Spélééo-Club Dijoughly reference, from the French, S
Simonnot G, 2016.

In the rocky ledge, right on the track. A crack (draught coming out in summer) served as a dump and a number of boxes of ubbish have been taken to the dustbins in Arredondo. The site has been worked at over 2012-2013 and a narrow fissure is visible for 4 to 5 m . Work during 2016 was hampered by blocks and bottles. The new grid reference from Simonnot G, 2022 is used above. Reference: anon., 2015d (autumn logbook);
Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance picture : yes
Video :
```

Detailed
Detailed surve

``` On area surve Survex file
x
4250: cave Camposdelante 30T 4469054799707 (Datum: ETRS89. Accuracy code: G) Altitude 242 m Length 10 m

A long section of a cliff face has become detached in a large rift feature forming a 10 m long walking passage with daylight entering at the far end. (Description: John Southworth)

Reference: anon., 2015d (autumn logbook) Entrance pictures : yes Underg
```

Video :
Detailed survey

``` Line Survey Survex file :

X
4251: Cueva en una Mina, La Barrio de Arriba 30 T 4447364799566 (Datum ETRS89. Accuracy code: G) Altitude 162 m Length 327 m Depth 37 m Vertical range 45 m
Area position

Updated 4th January, 19th February, 9th 31st May 2016; 20th September 2019

Walk up the track past the main mine Mina Favorita, site 1561) and instead of turning sharp right to the obvious barn go straight on up a newly cleared track to a wire gate. At this point a newly built cabin o white blocks can be seen. Go through the gate and take the upper track to an gate and take the upper track to an excavated platform above the cabin. The
excavation has revealed what is now an excavation has revealec

The light from a natural shaft can be see from the entrance. Beyond the shaft is a blind adit. Halfway to the shaft a left turn takes you to a chamber which, to the right, also leads to the shaft. Ahead is a downclimb of some 3 metres to a natural 18 m shaft (three 8 mm bolts installed).
At the bottom of the shaft a rubble heap formed from mine deads leads steeply to a chamber. Ahead is a calcite slope with
 and then drop steeply into the main passage. To your left can be seen the other passage. To your left can be seen the o side of the rubble heap. To your right, a passage of growing dimensions leads to a series of roomy chambers linked by stooping arches. The whole main passage has a flat in保 extensive calcite in places. The fina impressive chamber terminates in a small, chest-deep lake with no way on beyond. The continuation of the cave probably lies behind the extensive roof-high calcite on the right The inlet passage near the entrance pitch gradually lowers to a flat-out crawl under delicate stalactites and becomes too tigh after 26 m but, 10 m along the inlet, squeeze to the left leads to a round 3 m high chamber with no way on (Description: Phil Goodwin)

Photos by the Grupo de Espeleologí Pistruellos were published on-line in December 2015. Other references can be found on the Mina Favorita site althougr found on the Mina Favorita site although
there is no indication on historic plans that there is no indication on historic plans th this site was part of the Very Good Mine this site w
complex.
The site was resurveyed in April 2016 to The site was resurveyed in April 2016 to include more mined passage and the lake crossed in a small rubber dinghy to dig the mudbank. Hard and slow progress was made in clay/silt deposits. The strong draught in the system disappears in the lake area.

Reference: anon., 2015d (autumn logbook); anon. 2016b (Easter logbook); anon., 2018b (Easte logbook) Entrance pictures : see GEP link below Underground pictures : November 2015 : by the GEP (Google Photos) : Easter 2016 : from Carlo

Video :
Detailed survey : plan pdf
Line Survey :
On area survey:
Survex file : April 2016

\section*{4252: cave}

Barrio de Arriba 30 T 4447234799536 (Datum
ETRS89. Accuracy code: G) Altitude 165 m ETRS89. Accuracy code: G) Altitude 165 m Length 12 m
Area position

The entrance is in a low cliff face to a 12 m long crawling passage with daylight entering in two places. This ends at an eyehole looking into a small chamber which would require capping. Not a good prospect; nc draught
```

(Description: John Southworth)

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

\section*{4253: shaf}

Navajeda 30T 4447744801599 (Datum: ETRS89信 Length 12 m
Area position

Updated 9 \({ }^{\text {th }}\) May 2016
An undescended shaft of about 9 m depth Another one, 4 m away, looks too tight. The shaft was explored at Easter 2016 and founc to be a 6 m deep rift shaft. \(\hat{A}\) One end of rift is a chamber which chokes. The opposit end is a squeeze to a descending rift which also chokes.
```

tion: John Southworth)

```

Reference: anon., 2015d (autumn logbook); anon. 2016b (Easter logbook) Entrance pictures: Nov
Underground pictures

4254: cave
Navajeda 30T 4449324801292 (Datum: ETRS89 Navajeda 30T 4449324801292
Accuracy code: G) Altitude 89 m

In the bottom of a large depression is a loose boulder climb down of 3 m to chamber, \(1 \mathrm{~m} \times 4 \mathrm{~m}\) with the way on too tigh
(Description: John Southworth)

MATIENZO UNDERGROUND site descriptions (printed 1902(2024) Volume 6 - page 64

Reference: anon., 2015d (autumn logbook)
Entrance nictures. ves Entrance pictures: yes Undergr
Video : Detailed survey Line Survey On area surve
Survex file :
X
4255: shaft
Navajeda 30T 4449704801136 (Datum: ETRS89.
Navajeda 30T 4449704801136
Accuracy code: G) Altitude 98 m
Length 6 m Depth 6 m
Area position
Updated 9 \({ }^{\text {th }}\) May 2016

A shaft/rift that could be 8 m deep. It is full of rubbish and would require a descent past a bed mattress. There are also syringes lying about. When descended over the mattress, a p3 was followed by another p3 mattress, a p3 was followed by another
down between loose blocks to a choke. down between loose blocks
(Description: John Southworth) Reference: anon., 2015d (autumn logbook); anon., Entrance pictures : November 2015 Entrance pictures : Nov Video: Detailed surve Line Survey On area surve Survex file
x
4256: dig
Navajeda 30T 4449804801160 (Datum: ETRS89,
Navajeda 30T 4449804801160
Accuracy code: G) Altitude 97 m
Depth 3m
Area position

A choked, 2.5 m deep mud-sided hole which is aÂ possible dig. (Description: John Southworth)

Reference: anon., 2015d (autumn logbook) Entrance pictures : yes Video :
```

Detailed

```
Line Survey :
On area survey
On area sur
Survex file :
x
4257: dig
Navajeda 30T 4449524801232 (Datum: ETRS89.
Accuracy code: G) Altitude 91 m
Area position

At the base of a small depression is a dig in boulders with a good draught. in boulders with a good dra
(Description: John Southworth)

Reference: anon., 2015d (autumn logbook) Entrance pictures: ye Underground pictures Video: Detailed survey Line Survey Survex file :

X
4258: covered collapse
Ideopuerta 30T 4467494796314 (Datum: ETRS89 Accuracy code: G) Altitude 357 m Area position

Updated 9 \({ }^{\text {th }}\) May 2016; 10th November 2021 A \(2 m\) deep dig in the base of a collapse. After work at Easter 2016, there is still no Aed rock showing.
When visited in September, 2021, the site had been completely covered over and planted with trees.

Reference: anon., 2016b (Easter logbook) (November 2015 logbook account pasted here); (Non, 2016b (Faster loghook); anon. 2021d (autumn logbook) Underground pictures Video:
```

Detailed sur
Line Survey :

``` On area survey : Survex file :

X
4259: rift Barrio de Arriba 30T 4457064799230 (Datum: ETRS89. Accuracy code: G) Altitude 115 m Area position

Updated 30th November 2016; 12th January 2018

A hole on the bottom track would need snappers to continue along a narrow draughting rift. Description by Chris Camm) The site was shown to Miguel from the G.E. Pistruellos in November 2016.

MATIENZO UNDERGROUND - site descriptions (printed \(19002 / 2024\)
Volume \(6-\) page 65
Reference: anon., 2016b (Easter logbook)
(November 2015 logbook account pasted here)
anon., 2016d (autumn logbook)

A mud-filled phreatic hole.
Reference: anon., 2016b (Easter logbook) (November 2015 logbook account pasted here) Entrance pictures

\section*{4262: dig}

\section*{San Antonio 30T 4454934800680 (Datum:} ETRS89. Accuracy code: G) Altitude 175 m Area positio

An uninspiring hole next to a gate. A hole in a broken down field wal (Description by Chris Camm)
Reference: anon., 2016b (Easter logbook)
(November 2015 logbook account pasted here)
(November 2015 log
Entrance pictures
Entrance pictures :
Underground pict
Video :
Detailed su
Line Survey:
On area sur
Survex file

\section*{4263: dig}

Updated 24th May 2022
A small shaft in clints with brambles which pens out 1m down. Depth unknown and unexplored.
Up and to the right of this shaft, along an obvious joint line, is a gorse filled shakehole at 30 T 04445854799631 which might repay investigation in thicker gear than shorts and t shirt.

Description by Chris Camm)
When explored in the autumn 2021,
protruding rock prevented a full exploration with capping required. However, no further visits were planned.

Reference: anon., 2016b (Easter logbook) (November 2015 logbook account pasted here); anon., 2021d (autumn logbook); anon., 2022b Entrance pictures : autumn 2021 Underground pictures :
Video:
Detailed survey
Line Survey
On area survey
Survex file :
X
4266: cave
Barrio de Arriba 30T 4447884799661 (Datum: Barrio de Arriba 30T 4447884799661 (D ETRS89. Accl
Length 4m Area position

A truncated cave passage with stal in an A truncated cave passage with stars as andercut.
open field now appears as open field now appears as
(Description by Chris Camm)

Reference: anon., 2016b (Easter logbook)
(November 2015 logbook account pasted here) Entrance pictures: yes

\section*{Video :}
```

Detailed s

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

4267: cave Barrio de Arriba 30T 4447114799661 (Datum: ETRS89. Accuracy code: G) Altitude 180 m Area position

A small unexplored cave inside a small fenced area with citrus trees. (Description by Chris Camm)

Reference: anon., 2016b (Easter logbook) (November 2015 logbook account pasted here) Entrance pictures:
```

Video:
Detailed survey
Line Survey

```
On area survey
Survex file :
x

\section*{4268: dig}

Barrio de Arriba 30T 4448254799444 (Datum: ETRS89. Accuracy code: G) Altitude 108 m Area position

A dig into a bedding that will probably join with an unexplored tube. These 2 features are within a few metres of one another.
(Description by Chris Camm) (Description by Chris Camm) Reference: anon., 2016b (Easter logbook)
(November 2015 logbook account pasted here)
Entrance picture: yes Entrance picture : y
```

Underground picture : ye

```
Video :
```

Detailed surve

```
On area surve
Survex file :
x

4269: mine
Barrio de Arriba 30T 4447884799421 (Datum: ETRS89. Accuracy code: G) Altitude 115 m
Area position Area position

Updated \(9^{\text {th }}\) May 2016
A large mine entrance just above the footpath splits into 2 passages in daylight. descends steeply to a pool where work seems to have stopped. The site was reexplored at Easter 2016 with an alternative explored at Easter 2016 with an alterna
GPS reading of 30T 04447754799433 . GPS reading of 30T 04447
(Description by Chris Camm)

Reference: anon., 2016b (Easter logbook) (November 2015 logbook account pasted here); (November 2016b (Easter logbook) Entrance pictures : yes Underground picture :
Video : Video :
MATIENZO UNDERGROUND - site descriptions (printed 19002/2024 \(\begin{gathered}\text { Volume } 6-\text { page } 67\end{gathered}\)

\section*{Detaile s.aur
Liene surver}

\section*{4270: shaf}

Barrio de Arriba 30T 4457934799145 (Datum ETRS89. Accuracy code: G) Altitude 137 m Length 32 m
Area position

\author{
Updated \(9^{\text {th }}\) May, \(30^{\text {th }}\) November 2016
}

An enlarged and excavated shaft requires 2 ladders to reach a boulder-filled chamber. Two rifts in the floor at the base are both too narrow.
The site was shown to Miguel from the G.E. Pistruellos in November 2016

Reference: anon., 2016b (Easter logbook)
(November 2015 logbook account pasted he
(November 2015 logbook account pasted here) anon., 2016b (Easter logbook); anon., 2016d (autumn logbook
entrance picture : November 2015
Underg
Video :
Detailed survey
Line Survey
On area sur
```

Survex file

```

\section*{4271: Esquileña, Cueva de}

\section*{(Manantial de Tres)}

Riva 30T 4551454792779 (Datum: ETRS89 Accuracy code: G) Altitude 137 m
Length included in Cueva de Mortiro, site 5 Area position

Updated 12th, 21st February 2016
The resurgence for the Mortiro-Equileña system. The cave was first explored as a resurgence-to-sink through trip in 1974. The first 200 m in the water are the most awkward and after 300 m a one metre lons awkward and after 300 m a one metre lc continues with wading in places until a continues with wading in places until
boulder pile is reached. The surface is boulder pile is reached. The surface is
reached by a climb up a 9 m pitch or by reached by a climb up a 9m pitch or by
carrying on in the streamway for a few more carrying on in the streamway for a few more
metres to emerge in the Hoyo del Mortiro. A metres to emerge in the Hoyo del Mortiro. A wet and sporting cave
In November / December 2015 and January 2016, water traces by Peter Smith and Terry Whitaker using optical brightener proved that water from the Orillón system in Matienzo was the source of at least some of the water resurging here. Further details of this trace is found on the Orillonzuco page. During an optical brightener test from site 3884 , detectors were placed here from 13th
February 2016 and checked over the next february 2016 and checked over the ne 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.)
References: anon., 1974b (logbook); anon., 1974a;
anon., 1975b (Easter and summer logbooks); Kendal anon., 1975b (Easter and summer logbooks); Kenda Caving Club and Manchester University Speleological Society, 1975 (survey); Fernández Gutiérrez J C, 1975; Manchester University Speleological Socie
1982 (survey); Mills L D J, 1981; Corrin J S and 1982 (survey); Mills L D J, 1981; Corrin J S and Smith P, 1981; anon., 1993a (survey); Valer
Enrique y Soriano Ângel, 2007; anon., 2015d Enrique y Soriano Angel, 2007 ; anon., 2015d
(autumn logbook); anon., 2016a (January, February Entrance picture : yes

In November / December 2015 and

February 2016 and checked over the next
few davs in rising and falling flood few days in rising and falling flood conditions. The results were consistently through at the Jivero 1 resurgence after 48 hours. (The full details can be found here.)

References: anon., 2015d (autumn logbook); non., 2016a (January, February logbook) Entrance pictures: yes Underground pictures Video:
Detailed survey : see Cueva de Mortiro, site 5 Line Survey
on area survey
Survex file
X
4273: resurgence (SW)

\section*{Riva 30T 4544874793131 (Datum}

Accuracy code: A) Altitude 155 m rea position

Updated 12th February 2016
This resurgence is found on the southwest side of the Hoyo Mortiro, west of the sink entrance to the Mortiro-Equileña system and ne of two springs into the depression. (The ther is site 4272 .)
In November / December 2015 and January 2016, water traces by Peter Smith and Terry Whitaker using optical brightener proved that water from the Orillón system in Matienzo was the source of at least some of the water resurging at the Equileña resurgence on the outskirts of Riva Positives were also seen at the site 4272 resurgence but none at this 4273 rising. Further details of the water trace is found on the Orillonzuco page.

References: anon., 2015d (autumn logbook); anon., 2016a (January, February logbook) Entrance pictures : yes



Video:
Detailed survey : see Cueva de Mortiro, site 5 Detailed surve
Line Survey : Line Survey: On area sur
Survex file

X
4274: shaft
Moncobe 30T 4460454796483 (Datum: ETRS89. Accuracy code: A) Altitude 239 m Length 10 m Depth 10 m Area position

Following a cold draught from above the entrance to El Cubillón, this shaft is reached by traversing to the left of the Cubillón entrance ("about 25 m above"). It "come entrance ("about 25 m above"). It "comes
out of a rift back into daylight after 10 m in rift 6 m to the left of El Cubillón". (The source of the draught could not be found source of the draught

References: anon., 2015d (autumn logbook)
References: anon.,
Entrance pictures :
Entrance pictures :
```

Video:

```
Detailed surve
Line Survey :
Line Survey
On area surve
Survex file :
X
4275: resurgence
Ogarrio 30T 4562124793305 (Datum: ETRS89.
Ogarrio 30T 4562124793305 (Da
Accuracy code: G) Altitude 133 m
Accuracy code: G) Altitude 133 m

\section*{Area position}

One of a number of resurgences in Ogarrio. This has been catalogued as 5 Surgencia by the Cuenca cavers.

References: anon., 2015d (autumn logbook) Entrance pictures Underground pictures Video: Letailed surv On area survey. Survex file

X
4276: dig/shaft
Ozana 30T 454208 4794888 (Datum: ETRS89 Accuracy code: G) Altitude 250 m Area position

An over-tight rift to the surface from the northwest passage in Cueva de la Loca 2 (site 0020) that emerges at a tiny hole on a grassy knoll.

References: anon., 2016a (January, February logbook) Entrance pictures : yes Underg Video Detailed survey Line Survey On area survey :
Survex file: See 0020


A small cave with an internal wall about 120 m to the east of Cueva de Colorado 1 120 m to the
(site 1393). From Simonnot G, 2022: "At the end of
the big meander, the bull's-eye in height the big meander, the bull's-eye in height
(impenetrable) turns out to be traversed by (impenetrable) turns out to be traversed by
a sensitive current of air (May 21, 2022)". A a sensitive current of air (May 21, 2
new grid reference is shown above.
References: Degouve de Nuncques Patrick et Simonnot Guy, 1989; Simonnot G, 2016; Simonnot G, 2018; Gno 2022c (summer logbook): Simonnot G, 2022

\section*{A dig.}

References: Simonnot G, 2016; Simonnot G, 2018;
Video :
Detailed surv
Line Survey :
On area surv
Survex file
x
4281: Molino Viejo, Cueva del
(2037 (French: SCD))
Bustablado 30T 4466124793078 (Datum: ETRS89.
Accuracy code: M) Altitude 296 m
Length 25 m Height +5
Area position

Updated 25th September 2018; 17th November 2022

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

A small, occasional resurgence. A meandering gallery ( \(1.5 \times 1 \mathrm{~m}\) ) goes for ten meters from the entrance. Four metres up, blocks are stuck to the ceiling (nearby ravine?). To the right, water and air come from a low, very abrasive conduit. Continues but exploration was abandoned here in August 2012, "for the survival of the combination"

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022
Sefencer Entrance pictures : Underground picture Video:
Detailed surve Line Survey On area surve
Survex file :
x
4282: Manchega, Fuente (Bustablado, Fuente de) (2038 (French: SCD) Bustablado 30T 4465794793108 (Datum: ETRS89 Accuracy code: M) Altitude 305m Length 4 m D
Area position

Updated 25th September 2018
An alternative GPS reading is ETRS89 04465884793104

The information below has been roughly translated from the French,
Simonnot G, 2016 .

Upstream of the old mill and on the right Upstream of the old mill and on the right
bank of the arroyo de Bustablado (or bank of the arroyo de Bustablado (or
Tabladillo). Water comes from a modest an Tabladillo). Water comes from a modest low gallery that seems to sump quickly,
although in a dry period there may be although in a dry period there may be
airspace (no draught). The conduit is largel airspace (no draught). The conduit is largel
occupied by a large sand deposit and the occupied by a large sand deposit and the
rising is used as a supply for Bustablado. rising is used as a supply for Bustablado.
The flow has been estimated as between 10 - 100 litres/second from dry to wet periods. References: anon., 2016a (January, February
logbook); Simonnot G, 2016; Simonnot G, 2018 logbook); Simonnot G, 2
Entrance picture : yes Underground pictures Video: Detailed surve On area surve) Survex file

X
4283: Tabladillo, Cueva de (2041 (French: SCDD) (VT191)
Bustablado 30T 4463664793469 (Datum: ETRS89, Accuracy code: M) Altitude 354 m Length 120 m
Area position
Updated 25th September 2018; 17th November 2022

The information below has been roughly translated from the French, Spe
Simonnot G, 2016.

In August 1980, the SC Dijon explored a hundred meters of galleries (the first thirty meters showed small footprints). Th meters showed small footprints). The
following year the cave was extended by 20 m . 20m
The cave was again explored in the 90s by the caving group of Tortosa and numbered VT 191, but the results are not known.

References: Simonnot G, 2016; Simonnot G, 2018 ; Simonnot G, 2022
Entrance pictures Entrance pictures :
Underground pictures
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Video:

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Detailed

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Line Survey :
On area surve
Survex file :
x

4284: cave (2045 (French: SCD)) Arredondo 30T 4515874791756 (Datum: ETRS89
Accuracy code: M) Altitude 223 m Accuracy code: M) Altitude 223m Length 8 m
Area position

Updated 25th September 2018; 17th November 2022

The information below has been roughly translated ,

A little below the anterior wall of the Simonnot property (camino de Llaneces). A small cave (diameter 1.5 m ) is rapidly

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2022
Volume 6 - page 7
blocked after 4 m by blocks. Near the entrance, a 4 m tube leads to a second opening.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022
Entrance pictures : Underground pictu
Video: Detailed surv Line Survey On area surv
Survex file:

\section*{4285: Basura, Torca (2046}

\section*{(French: SCD))}

Arredondo 30T 4520004792011 (Datum: ETRS89. Accuracy code: M) Altitude 303 m Length 30 m Depth 15 m Area position

Updated 25th September 2018; 17th November 2022

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

The steep flanked doline \((-5 \mathrm{~m})\) is pierced with a p5 followed by an inclined slab. with a p5 followed by an inclined slab.
Below, a relatively spacious room (15-20 m Below, a relatively spacious room (15-20
long) runs into a pool with water supply long) runs into a pool with water supply
which seems to correspond to a sinkhole or which seems to correspond
the other side of the road.
Simonnot

References: Simonnot G, 2016; Simonnot G, 2018; References: Simo

 Underg:

Line Survey
On area survey :
Survex file :

X
4288: cave (2049 (French: SCD)) 4288: cave (2049 (French: SCD) Arredondo 30 T 4517264791609
Accuracy code: M) Altitude 150 m Accuracy cod
Length 4 m Area position

Updated 25th September 2018; 17th November 2022

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

At the confluence of the Ríos Bustablado and Ason (left bank) at the foot of a rocky ledge at the very edge of the river. A small, 4 m long cave clogged with clay and sand. The cave was explored by the SC Dijon in 2007.

References: Simonnot G, 2016; Simonnot G, 2018; References: Simo
Simonnot G, 2022

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

X
4289: cave (2051 (French: SCD)) 4289: Cave (2051 (French: SCD)
 Length 20 m Depth 2 m Area position
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Updated 25th September 2018; 17th

``` November 2022

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

An occasional rising. A cleft overlooks a poo ( 5 m ) in which the property owner has installed a pump. Behind a low arch, a narrow tube has been investigated The cave was explored by the SC Dijon in 2007.

References: Simonnot G, 2016; Simonnot G, 2018 References: Simo
Simonnot G, 2022 Entrance pictures : 2004 Underground pictures Video :

\section*{Detailed sur} Line Survey: On area surve
Survex file.

X
4290: cave (2052 (French: SCD)) \(\frac{\text { A290: cave (2052 (French: SCD) }}{\text { Arredondo 30T } 4519754791616 \text { (Datum: ETRS89 }}\) Arredondo 30T 451975471616
Accuracy code: M) Altitude 155 m Length 4 m Depth 2 m Area position

Updated 25th September 2018; 17 th November 2022

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

An occasional rising, dug out in 2007. I quickly meets a flooded section whose bottom is completely clogged with pebbles. To the right, an impenetrable crack brings water from the site 4289.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022
Entrance pictures Entrance pictures : Video :
Detailed survey Line Survey Survex file :

X
4291: cave (2053 (French: SCD)) Arredondo 30T 4519824791612 (Datum: ETRS89 Accuracy code: M) Altitude 152 m
Length 12 m Height 2
Area position
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$$
\text { Simonnot G, } 2016
$$

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Opening in the working face of the new road, about thirty meters from and immediately above the source of Barcena Morel (site 3278)

Accuracy code: M) Altitude 190 m
Length 900m Vertical ren
Area position Area position

Updated 25th September 2018; 17th November 2022

A continuing cave on at least two levels. The site was first identified in 2007 then excavated, explored and surveyed by the SC Dijon in 2007, 2008, 2010 and 2014. In August 2017, the temperature of the strong draught at the entrance was \(12.8^{\circ} \mathrm{C}\) when the exterior temperature was \(29^{\circ} \mathrm{C}\). The information below has been roughly translated
from the French, Spéléo-Club Dijon reference, Simonno
\(G, 2022\).

On the left bank of Rio Asón, 40 m above the bed of the river. The small entrance, about thirty meters from a hut, is however difficult to spot in a stand of green oaks.

The small opening, from which emerges a powerful draft, has been enlarged and descends over 5 m (unobstructed into the earth) to intersect a more spacious duct. Or the left about fifteen meters was traversed in diaclases finally impenetrable (no air). On the right a comfortable gallery of 10 m passes the Tejonera (nest of badgers ("techons" in Burgundy)) that no longer seems inhabited since our first explorations At the end the Bull's Eye was quite easily opened in a moonmilk flow, then a very thin diaclase could only be crossed at the level of a high bench (the Zarzaparilla). Since the first passage of light work (chisel then later striking means) have made the crossing more comfortable (... or say less painful) The exit of the narrow is made directly to 2 m high in the wall of a large gallery.

The black fountain gallery
The change in size is spectacular because ve find ourselves in a major conduit (6 to 10 m wide) which in reality probably came out in the hillside by a neighboring cave nov clogged (Cueva No. 2061 (MCP: 4299). The access passages are therefore only a small diversion.
The beautiful concretized conduit is occupied by a remarkably horizontal filling, regrooved by the small temporary flow of the black fountain which sinuates in this floor before being lost definitively 50 m further.
A rise in sediment leads to a high room centered on a large diaclase. A small climb makes it possible to reach the bottleneck of Les Gros Thutes where the current of air is again very sensitive.
This is the key passage to access Gallery Z and the Emmaus well. Just before the high hall, on the left hand, a conduit continues in a small gallery of a hundred meters, which a small gallery of a hundred meters, which
has in its first part a diversion ensuring the link with the gallery Z

\section*{Gallery Z}

The mouth of the bottleneck Gros Thin is in a large gallery, the largest of the cavity despite the imposing filling that fills part of it. On the right, it immediately stops; a small water supply to the ceiling creates a concrete zone (cauliflower) where a modest opening, swept by a good draft, marks the top of the Emmaus pitch (P.34). To the left of the gutter, the large \(Z\) gallery forms a large bend and ends quickly on a forms a large bend and ends quickly on a
high, completely clogged daclase. Only a high, completely clogged daclase. Only a spite of a delicate climbing the advance o spite of a delicate climbing the advance of
this side was very modest. A racking after this side was very modest. A
the turn should be reviewed.
In the middle of the gallery \(Z\) a
In the middle of the gallery Z a
perpendicular corridor descends to join the perpendicular corridor descends to join the
flank and the first landing of the Emmaüs flank a
pitch.

The pitch and the Emmaus gallery The departure of the P. 34 is a little narrow but then the descent is more comfortable. Down a straight, but narrow, roller coaster, ends after a final jump (equipped) in front o an initially impenetrable blowing crack (34).

Diary (from Simonnot G, 2022)
2007 The entry is marked on April 15, 2007 (Pierre Perrault and Guy Simonnot). A first (Pierre Perrault and Guy Simonnot). A first
clearing makes it difficult to progress over 4 clearing makes it difficult to progress o
m . The smell of badgers is particularly m . The smell of badgers is particularly
captivating and it is only the strong current of blowing air that maintains the motivation April 27: a small tug makes the opening a April 27: a small tug makes the opening a plug of earth and blocks, and the Tejonera is plug of earth and blocks, and the Tejo accessible. Stop in front of the Oeil de
Boeuf. Development: 30 m (G. Simonnot Boeuf. Development: 30 m (G. Simonn
July 22: opening of the Fil de Bœuf, passage of the Zarzaparilla and exit into the great gallery of the Black Fountain Development: 150 m . (G.Simonnot) August 11: The Zarzaparilla is slightly modified for the passage of reinforcements. MATIENZO UNDERGROUND - site descriptions (printed 1900212024

A small corridor (goulet des Gros Minces) makes it possible to find the continuation of the large conduit and to locate the top of the
Emmaüs well. Development: 310 m (Olivier Regnault, Maxime Simonnot, G. Simonnot) 2008 February 22: Climbing and equipping a ledge at the bottom of the upper network a ledge at the bottom of the upp
(Martin Simonnot, G. Simonnot) (Martin Simonnot, G. Simonnot)
July 26: Descent from the Emmaus well July 26: Descent from the Emmaus well and advance in the meander to the narrou blowing. Development 450 m (Patrick and Sandrine Degouve, Martin, Maxime and Guy Simonnot)
August 12: Topography in the upper floor and climbing in one of the galleries (Patrick and Sandrine Degouve, Ludovic Guillot, Chantal Nykiel, Guy Simonnot). Development 530 m
2010 August 9: After two years, we are finally returning to unclog the blowing narrowing at the terminus (-34) At -42 we set foot on a small local collector. Its ascent allows you to travel 300 m of galleries. (P. and S. Degouve, L. Guillot, Ch. Nykiel, G. Simonnot). Development 830 m 2014 April 17, 27 and May 26: expansion work in the entrance galleries. Techon Gallery (Guy Simonnot) Sary (Guy 24 : Topognt September 24: Topography of a hundred meters in the upper floor. The development is around 900 m . (Guy Simonnot)
2017, August 14: temperature of the violent air current blowing at the entrance
\(12.8^{\circ} \mathrm{C}\) (external temperature \(29^{\circ} \mathrm{C}\) ) 2020 + Magic Ulises and Guy Simonnot (NJo account above)

References: Simonnot G, 2016; anon., 2016a (January, February logbook); Simonnot G, 2018 Simonnot G, 2022 Entrance pictures :
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Underground picture

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

4296: cave (2058 (French: SCD)) Arredondo 30T 4516424791702 (Datum: ETRS89 Arredondo 30T 4516424791702
Accuracy code: M) Altitude 203 m Length 9 m Length 9 m
Area position

Updated 25th September 2018; 17th November 2022
Area position
Updated 25th September 2018; 17th
November 2022
from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016 . A small cave on the side of a sinkhole. At the bottom of the depression a trickle of water is lost. An impenetrable crack at this level could be dug.
Explored by SC Dijon, August 2007.
References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures : Underground pictures Video : Detailed survey Line Survey On area sur
Survex file :

X
4299: shaft (2061 (French: SCD)
Arredondo 30T 4522204791714 (Datum: ETRS89. Accuracy code: M) Altitude 185m Length 30 m Depth 10 m Area position

Updated 25th September 2018; 18th November 2022

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

On top of a meadow, a little east of resurgence 4293. The entrance ( \(2 \times 1 \mathrm{~m}\) ) resurgence 4293. The entrance ( \(2 \times 1 \mathrm{~m}\) ) overlooks a sloping, earthy 5 m corridor. At
4 m blocks mask a p6m which opens into a 4 m blocks mask a p6m which opens into a beautiful gallery, 15 to 20 m long. Unfortunately, the bottom is completely closed off by calcite. The gallery, by its appearance, seems to be the extension of a gallery in site 4295.
Explored by SC Dijon, August 2007.
References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022
Entrance pictures:
Underground pictures
Underground pictur
Line Survey :
On area surve
Survex file :
x
4300: cave (2062 (French: SCD)) Arredondo 30T 4523194791694 (Datum: ETRS89. Accuracy code: M) Altitude 165 m Length 12 m

Updated 25th September 2018
The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.

A small passage ( \(1 \times 0.5 \mathrm{~m}\) ) splits into two A small passage \((1 \times 0.5 \mathrm{~m})\) splits
after 6 m . Only the right branch is after 6 m . Only the right branch is penetrable ( \(0.8 \times 0.4 \mathrm{~m}\) ) and has been viewed over 4 m . The narrow duct goes beyond following the dip. There is nc draught and the site is a badger lair. Explored by SC Dijon, 2008.
References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022 Simonnot G, 2022
Entrance pictures :
Underground pictures
Video:
Detailed survey Line Survey On area surve Survex file

4301: shaft (2063 (French:

\section*{SCD)}

Arredondo 30T 4522934791683 (Datum: ETRS89. Accuracy code: M) Altitude 161 m Depth 15 m
Area position
Updated 25th September 2018; 18th November 2022

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

A small, very unstable and dangerous opening by the edge of an old road and wall, with earth, blocks and roots. A penetrable cleft in the rock seems to descend to fifteen meters, a very similar level to that of the nearby river Asón. The cleft is an extension of a collapsed, clogged doline. There is no significant draught Noted by SC Dijon, 2008.

References: Simonnot G, 2016; Simonnot G, 2018; References:
Simonnot G, 2022
Entrance pictures Entrance pictures : Underg
Video:
Dideo
Detailed survey
Line Survey: Line Survey Survex file :

MATIENZO UNDERGROUND - site descriptions (printed
Volume \(6-\) page 77

\section*{4302: Juanio, Torca de (2064} (French: SCD))
 Accuracy code: M) Altitude 227 m Accuracy code: M) Altitu
Length 15 m Depth 8 m Area position

Updated 25th September 2018; 18th November 2022

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

Pointed out by Juanjo, the landowner, in July, 2008 when excavation started. There is a good draught and the dig continued to 2011. In August 2017 the temperature of the draught was \(11.8^{\circ} \mathrm{C}\). Further digging occurred in 2020 and 2021

References: Simonnot G, 2016; Simonnot G, 2018;

4303: shaft (2065 (French
SCD)

\section*{Detailed sis sin
Line sure}

4306: cave (2068 (French: SCD)) Arredondo 30T 4521054792834 (Datum: ETRS89.


\section*{Area position}

Updated 25th September 2018; 18th November 2022
The information below has been roughly translated
from the French, Spéléo-Club Dijon reference, from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.

A fossil sink. The entrance ( \(2.5 \mathrm{~m} \times 1.5 \mathrm{~m}\) ) A fossil sink. The entrance ( \(2.5 \mathrm{~m} \times 1.5 \mathrm{~m}\) )
is followed by a 4 m corridor then down to is followed by a 4 m corridor then down to
4 m . Only a big excavation would open up 4 m . Only a big excavation would open up
the site. the site.
References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022
Simonnot G, 2022
Entrance picture : November 2008
Underground pictures
Video:
Detailed survey
Line Survey
On area survey :
Survex file :
x

\section*{4307: Bani 3, Torca (2069}

\section*{(French: SCD))}

Arredondo 30T 4514964792465 (Datum: ETRS89. Accuracy code: M) Altitude 415 m Length 13m Depth 11 m Area position

Updated 25th September 2018; 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016 . Simonnot G, 2016.
In the Llanes area and at the bottom of a steep, 6 m deep doline. A p4m drops to a squeeze and a small chamber a tiny, completely impenetrable, passage. There is no draught.
Explored by the SC Dijon, April 2009.
References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures :
Underground pictures
Video : Video: Detailed surve
Line Survey: On area surv Survex file
x
4308: Curva, Cueva de la (2070 (French: SCD))
Arredondo 30T 451882 4792553 (Datum: ETRS89. Accuracy cod

Updated 25th September 2018; 18th Updated 25th Se
November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016 and 2022.

A small curtain makes access impossible. There is no air flow from a very low
passage. The cavity is just above a small passage. The cavity is just abc
rising with a catchment pipe. rising with a catchment pipe.
Documented by the SC Dijon, April 2009.

References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022 Simonnot G, 2022
Entrance pictures Untrance pictures :
Underground pictures Video: Detailed survey
Line Survey: Line Survey On area survey : Survex file :
x
4309: Dos Pinos, Torca de los (2071 (French: SCD))
Arredondo 30T 4517794792953 (Datum: ETRS89. Accuracy code: M) Altitude 515 m Length 8 m Depth 4 m

\section*{Area position}

Updated 25th September 2018; 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016 . Simonnot G, 2016.
A narrow ( \(0.8 \times 0.5 \mathrm{~m}\) ), 4 m deep pitch on the side of a doline. Documented by the SC Dijon, 2009 / 2010. References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022 Simonnot G, 2022
Entrance pictures :

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 \(\begin{gathered}\text { Volume } 6-\text { page } 7\end{gathered}\)

4313: Murciélago, Cueva de
Entrance pictures :
Underground pictures
Video :
Detailed surve
Line Survey
On area survey
Survex file :
X
4314: shaft (2077 (French:
SCD)
Arredondo 30T 4521204793026 (Datum: ETRS89
Accuracy code: M) Altitude 493m
ength 2 m Depth 12 m
Length 2 m
Area position
Updated 25th September 2018; 18th
November 2022
The information below has been roughly translated
from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016.

The entrance is \(1 \times 1 \mathrm{~m}\), just at the sandstone and limestone limit. A 2 m climb then a parallel pitch estimated to 10 m (one then a parallel pitch estimated to 10 m (on
flake to break for access). No draught. flake to break for access). No draught.
Documented by the SC Dijon, July 2009.

References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022
ntrance pictures : 2009
nderground pictures
Detailed survey
Line Survey
On area surv
Survex file
x

4315: shaft (2078 (French:

\section*{SCD)}

Arredondo 30T 4521294793018 (Datum: ETRS89, Accuracy code: M) Altitude 490 m Depth 5m Area position

Updated 25th September 2018; 18th November 2022

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

The entrance is similar to the site 4314, 10 m away. It appears to continue 4 or 5 m . Documented by the SC Dijon, July 2009.
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References: Simonnot G, 2016; Simonnot G, 2018
Simonnot G, 20

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Entrance picture : July 2009
Underground pictures
Video :
Detailed survey
Line Survey
On area surve
Survex file
x
4316: Fragón, Cueva del (2079
(French: SCD))
Arredondo 30T 450707 4792333 (Datum: ETRS89,
Accuracy code: M) Altitude 318 m
Length 8 m Depth 1 m
Area position
Updated 25th September 2018; 18th
November 2022
The information below has been roughly translated
The information below has been roughly transla
from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016.

Fifty meters southwest of the lower entrance (site 4382) to the Cueva Vallina. Originally a small, impenetrable tube, filled with humus and straw (badgers nests) and with a violen and straw (badgers nests) and with a violen
draught during cold periods. After 6 m there draught during cold periods. After 6 m there is an impenetrable crack at the foot of rock
recess. recess
010. 2010
The air temperature was \(13.4^{\circ} \mathrm{C}\) in September 2017
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References: Simonnot G, 2016; Simonnot G, }201

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imonnot G, 2022
Entrance pictures: February 2010
Underground pictures
Video:
Detailed survey
Line Survey
On area survey
Survex file :
x

4317: Zorro, Cueva del (2081 (French: SCD)) Arredondo 30T 4516364792439 (Datum: ETRS89. Accuracy code: M) Altitude 386 m Length 15 m Depth 1 m
Area position Area position November 2022

References: Simonnot G, 2016; Simonnot G, 2018; References: Simo
Simonnot G, 2022
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Entrance picture

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

\section*{4318: Ruina, Torca de la (2082}

\section*{(French: SCD))}

Arredondo 30T 4521394792978 (Datum: ETRS89. Accuracy code: M) Altitude 482 m Length 15 m Depth 10 m Area position

Updated 25th September 2018; 18th November 2022

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

Near a hut in ruins, this site has a beautiful opening, \(5 \times 2 \mathrm{~m}\) with a wall. A pitch of 10 m with scree at the bottom and two wemporary water inlets Explored by the SC Dijon, November 2009
References: Simo
Simonnot G, 2022
Entrance picture : 2008
Underground pictures :
Video :
Detailed survey
Line Survey
On area survey
Survex file

4319: Término, Cueva del (2083 (French: SCD))
Arredondo 30T 4513124792409 (Datum: ETRS89 Accuracy code: M) Altitude 387 m Length 60 m Depth 43 m Area position
pdated 25th September 2018; 25th June 18th November 2022

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

A low entry, with a width of one mete steep \(\left(45^{\circ}\right)\) slope in the side of a small doline. A gallery twenty meters down an inclined joint ( \(2 \times 2.5 \mathrm{~m}\) )
A squeeze drops down to eight meters. At four meters from the bottom a parallel shaft (p22) begins. The passage, first narrow and (p22) begins. The passage, first narrow jagged, then widens ( \(1.5 \times 4 \mathrm{~m}\) ). At the botto disappears into an impenetrable
draughtless passage. (-43m)
Explored by the SC Dijon, 2010-2011
References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 202

\section*{(French: SCD)}
 Accuracy cod
Area position

Updated 25th September 2018; 18th Updated 25th Sept
November 2022

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

In the meadow just west of Bani's house. At the foot of a rocky recess is a fissure the foot of a rocky recess is a fissure pit. Investigations by the SC Dijon, April 2009.

\section*{References: Simonnot G, 2016; Simonnot G, 2018} Simonnot G, 2022
Entrance pictures Underground pictures Video :
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Detailed survey
Line Survey

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On area survey :
Survex file
X
4322: shaft (2086 (French:
SCD)
Arredondo 30T 4522114792791 (Datum: ETRS89
Accuracy code: M) Altitude 458 m
Length 4 m Depth 4 m
Area position

Updated 25th September 2018; 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.
A small drop of 4 m . Basically impenetrable with no draught.
Investigations by the SC Dijon, November 2008.

References: Simonnot G, 2016; Simonnot G, 2018 Simonnot G, 2022 Entrance pictures : Underground pictures Video : Line Survey: Line Survey : Survex file
x
4323: Regada, Torca (2087

\section*{(French: SCD)}

Arredondo 30T 452031 4793036 (Datum: ETRS89 Arredracy code: G) Altitude 489 m
Accura Length 15 m Depth 8 m Area position

Updated 25th September 2018; 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference, from the French, Speleo-Club
Simonnot G, 2016 AND 2022.

A wet p5m accessible by a side passage. A downward joint leads to a passage to unclog. A small continuation is visible. The torca was looked at again in August 2022 (David Gonzales Cobo, Guy Simonnot). The terminus is narrow, rocky and airless. terminus is narrow, rocky and airless.
First explored by the SC Dijon, October 2008. The grid reference above is from 2008. The grid ref
Simonnot G, 2022.

References: Simonnot G, 2016; Simonnot G, 2018; References: Simo
Simonnot G, 2022
Entrance pictures Entrance pictures :
Underground pictures Underground pictur Video:
```

Detailed surv
Line Survey:

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On area survey :
On area sur
Survex file :
X
4324: shaft (2088 (French:
SCD)
Arredondo \(30 T 4519474792982\) (Datum: ETRS89
Accuracy code: M) Altitude 507 m
Depth 5m
Area position

Updated 25th September 2018; 18th November 2022
The information below has been roughly translated from the French, Spéléo-Club Dijon reference,
Simonnot \(G, 2016\).

A shaft top of \(4 \times 2 \mathrm{~m}\) with a pitch of about 5 m needs looking at.
Documented by the SC Dijon, April 2009.
References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022 Simonnot G, 2022
Entrance pictures:
Underground pictures
Video :
Detailed surve
Line Survey:

MATIENZO UNDERGROUND - site descriptions (printed 19002/2024 \(\begin{gathered}\text { Volume } 6-\text { page } 83\end{gathered}\)
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On area surv
Survex file :

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4325: Carrasquilla, Pozo del
(2089 (French: SCD))
Arredondo 30T 4519614792892 (Datum: ETRS89.
Arredondo 30T 4519614792892
Accuracy code: M) Altitude 503 m
Accuracy cc
Depth 5 m
Area position
Updated 25th September 2018; 18th
November 2022
The information below has been roughly translated
The information below has been roughly trans
from the French, Spéléo-Club Dijon reference,
Simonnot \(G, 2016\).
A small narrow pit of \(4 / 5 \mathrm{~m}\) is visible. A
trickle of water from the overlying
sandstone sinks here
Documented by the SC Dijon, October 2008.
References: Simonnot G, 2016; Simonnot G, 2018;
References: Simonnot G, 2022
Sin
Entrance pictures :
Underground pictures:
Video:
Detailed survey
Line Survey
On area survey
Survex file

\section*{4326: Chalet, Hoyo del (2090}

\section*{(French: SCD))}
x
4328: Vacas, Perdida de las
(2092 (French: SCD))
Entrance pictures :
Underground pict
Entrance pictures :
Underground pictures
Video:
Detailed surve
Line Survey
On area survey
Survex file :
X
4329: VT, Puits (2093 (French:
SCD))
Piluca \(30 T 4519254793769\) (Datum: ETRS89
Accuracy code: M) Altitude 605 m
Depth 25 m
Area position
Updated 25th September 2018; 18th
November 2022

Bordering an animal path, just east of Piluca, lies a nice drop estimated at about 5 m . Previously explored by the Tortosa group (VT number illegible) but the results are not known.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Inderground pictures
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Video:
Detailed survey

```
Detailed surv
Line Survey
On area surv.
On area surv:
Survex file :
x

4330: sink (2094 (French: SCD)) Arredondo 30T 4512694793039 (Datum: ETRS89 Accuracy code: M) Altitude 525 m ength 13 m Depth 8 m

\section*{Area position}

Updated 25th September 2018; 18th November 2022
The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.

At the bottom of a doline, steep and about or 8 m deep, a well marked temporary flow or 8 m deep, a well marked temporary flow is lost in a very small passage, impractica after 6 m . A totally impenetrable fissure marks the terminus only a meter lower than the bottom of the doline. No draught. Documented by the SC Dijon, July 2010.
References: Simonnot G, 2016; Simonnot G, 2018 Simonnot G, 2022
 round pictures
```

Detailed
Detailed surve

```
On area surve
Survex file :
x
4331: shaft (2097 (French:
SCD)
Arredondo 30T 4509134792267 (Datum: ETRS89
Accuracy code: M) Altitude 290 m
Length 6 m Depth 6 m
Area position

Updated 25th September 2018; 18th November 2022

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

In the Vallina valley, the Fuentes sector. At the bottom of a doline 5 m in diameter and 4 m deep, a recent(?) collapse - a clay plug and blocks. In the upstream side of the sinkhole, another coalesces ( 5 m long). Documented by the SC Dijon, November 2010.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures : Underground pictures Video: Detailed survey Line Survey On area surv
Survex file :

X
4332: shaft (2098 (French: SCD)
Arredondo 30T 4517344791828 (Datum: ETRS89 Accuracy code: M) Altitude 260 m Length 8 m Depth 8 m

\section*{Area positio}

Updated 25th September 2018; 18th November 2022

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

MATIENZO UNDERGROUND - site descriptions (printed \begin{tabular}{c} 
Volume \(6-\) page 2 2002 \\
\hline
\end{tabular}

This steep doline is on private property. On the southern flank a small p8 reaches the bottom of the sinkhole. There is a sme gallery at the bottom of the pot. The sinkhole has seen a remarkable development by its new owner in 2010 and 2011. Explored by the SC Dijon, July 2006

References: Simonnot G, 2016; Simonnot G, 2018; References: Sim
Simonnot G, 2022 Entrance pictures Underground pictures Video :
Detailed survey Line Survey On area surv
Survex file

4333: Tabladillo 2, Fuente de
(2099 (French: SCD))
Bustablado 30T 4462234793700 (Datum: ETRS89. Accuracy code: M) Altitude 385 m Length 1 m Area positio

Updated 25th September 2018; 18th November 2022

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

After digging out in 2011 and 2012, it is possible to see about 3 m into small passage.

References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022 Simonnot G, 2022

\section*{4334: Gran Abrigo ( 2100}

\section*{(French: SCD)}

Arredondo 30T 4485314793214 (Datum: ETRS89. Accuracy code: M) Altitude 530m Length 50m Depth 15 m Area position

Updated 25th September 2018; 18th November 2022

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

Above the Sumidero Linares (site 1195). This is a large shelter ( 40 m ) whose ceiling is pierced by a shaft of fifteen meters open to the sky.
Explored by the SC Dijon, July 2010.
References: Simonnot G, 2016; Simonnot G, 2018;

The previous end is quickly reached and a few meters further, we descend a step of 3 meters. The meander becomes significantly larger ( \(1.2 \times 4\) to 6 m high). Some water inlets fall from the vault and feed a trickle of water which is lost a little further in which will be the low point of the cavity. Just after, the ground rises and comes up against a 4 m climb. Above, the dimensions shrink a little and the ground covered with sandstone blocks gradually rises. A new vertical notch takes us to a higher level, but ten meters further on, it's the end.

A pee falls from the ceiling and is lost in a 2 m jump followed by a 4 m pitch whose top is impenetrable for a metre. There is indeed a very weak current of air, but that is hardly exciting (P. and S. Degouve, December 25 and 31, 2010 (see CR releases)) Draught of sucking air in December 2010.

Degouve, Guy Simonnot)
Explored by the SC Dijon, December 2010, Explo
2022. References: anon., 2016a (January, February
logbook); Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance picture : May 2022 Underground pictures : older photos from Carlos Lamoile Martínez, July 2022 Video: Detailed survey : yes Detailed surv
Line Survey Line Survey:
On area surve
On area survey :
Survex file : Reconstructed from the 2010 survey
x

4336: cave (2102 (French: SCD)) Bustablado 30T 4489314793061 (Datum: ETRS89 Accuracy code: M) Altitude 500 m Length 5 m Area position

Updated 25th September 2018; 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016 . Simonnot G, 2016
(No description)
Excavation by the SC Dijon, August 2011.
References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022
ntrance pictures
nderground pictures Video
Detaine Survey :
On area survey
Survex file
X
4337: cave (2103 (French: SCD)) ustablado 30T 4483704792790 (Datum: ETRS89 Accuracy code: M) Altitude 515 m Length 6 m Depth 6 m

\section*{Area position}

Updated 25th September 2018; 18th November 2022
The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2022.

\section*{Small 6 m deep shaft.}

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures: Video: Detailed survey Line Survey On area surve Survex file :
X

4338: Hoyo 1 (2104 (French:

\section*{SCD)}

Arredondo 30T 4508664792564 (Datum: ETRS89 Accuracy code: M) Altitude 328 m Area position

Updated 25th September 2018; 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016 and 2022.

Near a ruined house in the Vallina valley (between Rotura and Fuentes). A crack with a slight current of air blowing at the bottom of a small funnel.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022
Entrance pictures
Underground pictures Video : Detailed survey Detailed sur
Line Survey On area surve Survex file
x
4339: Casa, Hoyo (2105 (French: SCD))
Arredondo 30T 450896 4792588 (Datum: ETRS89 Accuracy code: M) Altitude 327 m

Updated 25th September 2018; 18th Updated 25th Se
November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference, from the French, speleo-Club
Simonnot G, 2016 and 2022.

Near a ruined house in the Vallina valley (between Rotura and Fuentes). At the end of (between Rotura and Fuentes). At the end a small depression, a small impenetrabl
collapse exhales a discernible draught.

\section*{References: Simonnot G, 2016; Simonnot G, 2018} Simonnot G, 2022

MATIENZO UNDERGROUND - site descriptions (printed \(19 / 02 / 2024\)

4340: Tantas Noches, Torca de (2106 (French: SCD))
Arredondo 30T 4508964792640 (Datum: ETRS89 Accuracy code: M) Altitude 331 m Length 178 m Depth 16 m Height +8
Area position Area position

Updated 25th September 2018; 26th June, 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot \(G, 2018\). The length is taken from the reconstructed Survex file

In the valley bottom of Vallina (wooded area), just north of a meadow and a house ruins.
At the bottom of the entrance projection (3) a window exhales a strong stream of aii snoring in summer; opened through the blocks of a very unstable chute, it gives on a first enlargement. A new slope,
unobstructed at its summit, leads to a short section of gallery and at the top of the Nonosse pitch.
A beautiful gallery of 3 to 5 m high, facing north, unfortunately ends quickly on
clogging fills and concretions. A temporary circulation has cut through the thick layer of sediment and is lost in impenetrable cracks (no draft).
It is at height that the disobstructions of the passage Rahan allowed to advance a little in passage Rahan allowed to advance a little in The current of air comes from an The current of air comes from an
impenetrable ascending diaclase without mpenetrable asc
The torca seems, because of its proximity
That
The torca seems, because of its proximity, in relation with the very big Cueva Vallina. It is impossible, however, to say whether the of this cavity (north-west) or from a still of this cavity (north-west) or from a
unknown sector (north-east, east).

The site was surveyed in 2011.
References: anon., 2016a (January, February logbook); Simonnot G, 2016; Simonnot G, 201 Simonnot G, 2022
Entrance pictures :
Underground picture
Underground picture
Video:
Detailed survey : yes
Line Survey :
On area surve
On area survey :
Survex file : Reconstructed from the 2011 survey

\section*{4341: shaft (2107 (French:} SCD)
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Arredondo 30T 450742 4792916 (Datum: ETRS8

``` Accuracy code: M) Altitude 389 m Area position

Updated 25th September 2018; 18th November 2022
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Vnderg
Dideo:
Line Survey
On area survey

```
Survex file :
X
4343: resurgence (2110 (French:
SCD)
Bustablado 30T 4494194791854 (Datum: ETRS89
Bustablado 30 T 4494194791854
Accuracy code: M) Altitude 210 m
Area position

Updated 25th September 2018; 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference,
Simonnot \(G, 2016\). Simonnot G, 2016.
A small impenetrable rising below the Bustablado road. Documented by the SC Dijon, June 2011.
```

References: Simonnot G, 2016; Simonnot G, 2018
References: Simonnot G, 2022

```
Entrance pictures :
Underground pictures
Underground pictu
Video:
Detailed surv
On area survey :
On area sur
Survex file
X
4344: shaft (2111 (French:
SCD)
Bustablado 30T 4488284792654 (Datum: ETRS89.
Bustablado 30T 4488284792654
Accuracy code: M) Altitude 415 m
Accuracy code
Updated 25th September 2018; 18th
November 2022
The information below has been roughly translated
The information below has been roughly trans/a
from the French, Spéléo-Club Dijon reference,
from the French, Spéléo-Club
Simonnot G, 2016 and 2022.

A dig near the beginning of the path up to Sima del Cueto. In wintertime, it sucks air in. The shaft appears very narrow for 1 m in . The shaft appears very narrow for 1 m conduit which seems slightly larger. It was
chen to conduit which seems slightly larger. It was
written -off as too narrow in 2016 then, in written -off as too narrow in 2016 then 2022, the cavity could not be found, probably filled by the recent work to establish the track.
First documented by the SC Dijon, February 2011.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures:
Underground pictures
```

Video :

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

4345: cave (2112 (French: SCD)) Arredondo 30T 4512194793613 (Datum: ETRS89. Accuracy code: M) Altitude 559 m Depth 1 m

Updated 25th September 2018
The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.

At the foot of a rocky recess of 2 m at the bottom of a small depression. An bottom of a small depression. An
impenetrable crack \((0.15 \times 1 \mathrm{~m})\) with a very impenetrable crack ( \(0.15 \times 1 \mathrm{~m}\) ) with a V
slight draught.
Documented by the SC Dijon, July 2011.
```

Documented by the SC Dijon, July 2011.

```
References: Simonnot G, 2016; Simonnot G, 2018
Entrance picture : July 20
Underground pictures:
Undergr
Video:
Detailed survey :
Line Survey
On area survey :
Survex file :
X

4346: shaft (2113 (French:

\section*{SCD)}

Arredondo 30T 4512994793745 (Datum: ETRS89. Accuracy code: M) Altitude 593m
Depth 5 m Depth 5 m Area position

Updated 25th September 2018; 18th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference,
Simonnot \(G, 2016\). Simonnot G, 2016.
Small hole in the trail (Castro-west Tocornal). A pitchl estimated at 5 m in corroded limestone (diameter 0.4 m ). The bottom seems clogged with earth. No draught.
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
Volume 6 - page 89
\[
\text { cumented by the SC Dijon, July } 2011 .
\]

This lies 100 m east of the fuente de Arredondo (Cueva del Arroyo). The rocky Arredondo (Cueva del Arroyo). The rocky
ledge (at the limit of the grassland) cuts a ledge (at the limit of the gr
gallery section \((1.5 \times 1 \mathrm{~m})\) gallery section ( \(1.5 \times 1 \mathrm{~m}\) )
Explored by the SC Dijon, June 2011.
```

References: Simonnot G, 2016; Simonnot G, 2018;

```
Simonnot G, 202
Entrance pictur
Entrance pictures :
Video :
Detailed survey
Line Survey :
On area survey
Survex file

\section*{4349: shaft (2116 (French:}

\section*{SCD)}

Bustablado 30T 4464564793247 (Datum: ETRS89 Accuracy code: M) Altitude 337 m Area position

Updated 25th September 2018; 19th November 2022

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

\section*{4350: Dos Piedras, Pozo de las} (2117 (French: SCD)

Documented by the SC Dijon, March 2012 References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures: Underground pictur Video: Detailed surve Line Survey On area surv
Survex file :

X
4351: cave (2118 (French: SCD)) Bustablado 30T 4464824793275 (Datum: ETRS89. Accuracy code: M) Altitude 330 m Length 10 m Depth 3 m Area position

Updated 25th September 2018; 19th November 2022

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

In the gorge upstream of the fuente
Manchega (or fuente de Bustablado) n crawls enters a small chamber ( \(4 \times 5 \mathrm{~m}\) ) Basically a sink, dotted with jammed sandstone blocks (-3). A gentle stream of air is felt at the entrance. Documented by the SC Dijon, 2012, 2013.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures : Underground pictures Video:
Detailed survey Line Survey On area surv
Survex file :
x
4352: Garganta, Cueva de la (2119 (French: SCD)) Bustablado 30 T 4464964793266 (Datum: ETRS89 Accuracy code: M) Altitude 325 m Area position

Updated 25th September 2018; 19th November 2022

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

In the gorge upstream of the fuente
In the gorge upstream of the fuente Manchega (or fuente de Bustablado). A draughting cave with two passages that were excavated
Excavated and explored by the SC Dijon, 2012, 2013.
References: Simonnot G, 2016; Simonnot G, 2018 ; Simonnot G, 2022
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Entrance picture: yes

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Video :

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Detailed survey Line Survey On area surve Survex file :
x
4353: Caballo, Torca del (2120

\section*{(French: SCD))}

Bustablado 30T 4465104793243 (Datum: ETRS89 Accuracy code: M) Altitude 318m Depth 3m Area position

Updated 25th September 2018; 19th November 2022

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

A small entrance to a possibly 3 m deep shaft that needs digging out. No draught Described by the SC Dijon, March 2012.
References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022
Entrance pictures :
Underground pictures
Video :
Line Survey:
On area surve
Survex file :
X
4354: cave (2121 (French: SCD) Bustablado 30T 4464574793190 (Datum: ETRS89 Accuracy code: M) Altitude 327 m Length 3m Depth 1 m

\section*{Area position}

Updated 25th September 2018; 19th November 2022

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

A 2 m deep excavation, but the result is not MATIENZO UNDERGROUND - site descriptions (printed \(190102 / 2024\)
promising. No draught

Updated 25th September 2018; 19th November 2022
(Grid reference guess)
The information below has been roughly translated from the French, Spéléo-Club Dijon reference Simonnot G, 2016 and 2022

Just above the fuente de Bustablado. A small entrance with some water and a gentle stream of air blowing Excavated by the SC Dijon, May 2012.
References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures .
```

Video :
Detailed survey

```
Line Survey
On area surve
Survex file

4356: shaft (2124 (French:

4358: Alambrada 2, Torca 2126 (French: SCD)

Approximately 20 m east of the SCD2125 / P4357 and 4 m below. A 5 m pitch (cross section \(4 \times 1 \mathrm{~m}\) ) in the limestone pavements. Stones drop a few metres more. Unexplored? Described by the SC Dijon, April 2013.

\section*{References: Simonnot G, 2016; Simonnot G, 2018} References: Simo
Simonnot G, 2022
Entrance pictures
Entrance pictures :
Underground pictures
Video :
Detailed survey
Line Survey
On area survey
Survex file :
X
4359: Alambrada 3, Torca (2127
(French: SCD))
Bustablado 30T 448172 4793253 (Datum: ETRS89
Bustablado \(30 T 4481724793253\)
Accuracy code: M) Altitude 598 m
Area position
Updated 25th September 2018; 19th
November 2022
The information below has been roughly translated
The information below has been roughly transla
from the French, Spéléo-Club Dijon reference,
Simonnot \(G, 2016\).

An unexplored shaft of a few metres depth. It lies in a grassy funnel. Described by the SC Dijon, April 2013.
References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022 Simonnot G, 2022
Entrance pictures :
Underground pictu
Video:
Detailed survey:
Detailed sur
Line Survey
On area survey :
```

Survex file

```
x

4360: shaft (2128 (French:
SCD)
Bustablado 30T 4485904793382 (Datum: ETRS89. Accuracy code: M) Altitude 614 m Depth 5m
Area position
Updated 25th September 2018; 19th November 2022

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

A pitch on a fault on the eastern flank of a large doline. A 2.5 m deep depression ( \(4 \times 3\) m ) continues into a pitch (diameter 1 to 1.5 m ) of 4 or 5 m depth with an earthy side. Unexplored. Described by the SC Dijon, April 2013.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 Entrance pictures Underground pictures Video:
Detailed survey Line Survey On area surv
Survex file:

X
4361: Tres Spits, Torca de los (2129 (French: SCD))
Bustablado 30T 448571 4793399 (Datum: ETRS89
Accuracy code: M) Altitude 612 m Accuracy code: M) Altitude 612 m Depth 5m

Updated 26th September 2018; 19th November 2022
The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.

A small, unexplored pit ( \(1.2 \times 0.8 \mathrm{~m}\) ) and shallow ( \(4-5 \mathrm{~m}\) ?), surrounded by a barbed shallow (4-5 m ?), surrounded by a
wire triangle. A few metres to the wire triangle. A few metres to the
northwest, another similar small pitcl northwest, another similar small pitch
should be inspected. It's possible that the should be inspected. It's possible that the Tortosa group have investigated these sites
Described by the SC Dijon, April 2013. Described by the SC Dijon, April 2013.
References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022
Entrance pictures:
Underground pictures
Video:
Detailed survey
Line Survey
On area surve
Survex file
x
4362: Hoya, Torca de la (2130 (French: SCD)) Bustablado 30T 4485364793383 (Datum: ETRS89. Accuracy code: M) Altitude 600 m Area position
Survex file
X

\title{
Updated 26th September 2018; 19th
} November 2022

The information below has been roughly translated from the French,
Simonnot G, 2016

A collapse of \(10 \times 5 \mathrm{~m}\). A small chamber at the foot of the recess in the rocky ledge the foot of the recess in the rocky ledge
requires inspection. A dig to the right has requires insp faint draugh
Further inspections and digging took place in March 2017 and April 2018

References: Simonnot G, 2016; Simonnot G, 2018; not G, 202
```

Entrance pictures:

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

4364: Asiáticas, Torca de las (LC169) (2132 (French: SCD)) Garma de los Trillos 30T 4483854793367
(Datum: ETRS89. Accuracy code: M) Altitude 627 m Length 12 m Depth 10 m Area position

Updated 24th May 2017; 26th September, 11th December 2018; 10th November 2021 19th November 2022

When explored in March 2017, it turned out to be a 7 m shaft to a chamber.

The information below has been roughly translated from the French, Spéléo-Club Dijon reference Simonnot G, 2018.

On a limestone shelf, this pretty, 4 m
diameter pitch, is surrounded by barbed wire. Pitch of 7 m , the spacious bottom (4.5 \(\times 2.5 \mathrm{~m}\) ) on a slight slope ( -8 ) is impenetrable (large blocks of collapse, no draft). Three meters above the bottom an inclined bearing marks the arrival of a high entrance (+2) Trillos limestones (base of level b).

The site has been explored by La Cambera group who documented it as 6 m deep

Simonnot G, 2022 codes SCD2132 as MCP4365 - a mistake? - as Guy's grid reference is the same as MCP4364.

References: Simonnot G, 2016; anon., 2017b (Easter logbook); Simonnot G, 2018; anon., 2018d (autumn logbook); anon., 2021d (autumn logbook)
anon., 2021e (La Cambera Rpt); Simonnot G, 2022 Entrance pictures : March 2017
```

Underground pictures

```
Under

Detailed survey : elevation March 2017 Line Survey On area survey
x
4365: shaft (2133 (French: SCD)
Simonnot G, 2022 codes SCD2133 as
Simonnot G, 2022 codes SCD2133 as
CP4364 - a mistake? - as Guy's grid
reference is the same as MCP4365.
References: Simonnot G, 2016; anon., 2017
References: Simonnot G, 2016; anon., 2017b
(Easter logbook); Simonnot G, 2018; anon., 2018d
(Easter logbook); Simonnot G, 2018;
(autumn logbook); Simonnot G, 2022
Entrance pictures : March 2017
Underground pictures
Underg:
Detailed survey : elevation, March 2017
Line Survey
On area survey
Survex file
X
4366: 1988, Torca (2137
(French: SCD)
Arredondo 30T 4513114793456 (Datum: ETRS89
Accuracy code: M) Altitude 563m
Length 7 m Depth 7 m
Area position
Updated 26th September 2018; 19th
November 2022
The information below has been roughly translated
from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016.

A p6 or 7 m has one spit at the top. A small passage in the limestone marl level above the sandstone?
Explored by the SC Dijon, August 1988.
Simonnot G, 2022
Entrance pictures :
Underground pictur
Detailed survey
Detailed surv
Line Survey
On area survey
Survex file :
X

4367: Arbustos, Cueva de los (2141 (French: SCD)) La Rasa 30T 4484914793490 (Datum: ETRS89. Accuracy code: M) Altitude 660 m Length 5m Depth 3 m Area position

Updated 26th September 2018; 19th November 2022

The information below has been roughly translated The information below has been roughly trans
from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.
The entrance \((h=2.5 \mathrm{~m}, \mathrm{I}=2 \mathrm{~m})\) is well hidden behind abundant shrubs. The route reduces rapidly to end up being completely blocked by earth, bones and goat dung. Explored by the SC Dijon, July 2013.

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022
Entrance pictures Entrance pictures :
Underground pictures
Video:
Detailed surve
Detailed sur
One Survey:
On area sur
Survex file
x

4368: Dos Madrigueras, Cueva de las (2142 (French: SCD)) La Rasa 30T 4484184793509 (Datum: ETRS89. Accuracy code: M) Altitude 680 m
Length 10 m Length 10 m

Updated 26th September 2018; 19tr
Updated 26th
November 2022
The information below has been roughly translated from the French, Sp
Simonnot G, 2016.

A small entrance chamber ( \(4 \times 1.5 \mathrm{~m}\) and 3 m deep) continues to a low passage (width 1 m ) into a \(4 \mathrm{~m} \times 2.5 \mathrm{~m}\) chamber where the \(1 \mathrm{~m})\) into a \(4 \mathrm{~m} \times 2.5 \mathrm{~m}\) chamber where the
middle is occupied by a single hole. Two middle is occupied by a single small tubes are impenetrable.
Explored by the SC Dijon, July 2013.

References: Simonnot G, 2016; Simonnot G, 2018 Simonnot G, 2022
Entrance pictures Underground pictures Video:
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Detailed sur
Line Survey :

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On area survey :
On area sur
Survex file :
x

4369: Tapada, Torca (2143

\section*{(French: SCD)}

La Rasa 30 T 4483794793451 (Datum: ETRS89. Accuracy code: M) Altitude 680 m

\section*{4370: Amado, Agujero (2144} (French: SCD \()\)

Updated 26th September 2018; 19th Updated 26th Se
November 2022

The grid reference is a guess.
Area position
Updated 26th September 2018; 19th
November 2022
The information below has been roughly translated
from the French, Spéléo-Club Dijon reference,
Simonnot G, 2016 then updated from Simonnot \(G\),
2022..

In the lower part of a meadow, between the Llaneces track and the Arredondo cemetery. The cavity opens into a small rocky step.
The vertical entrance among the blocks and hanging branches gives two meters lower on a sloping scree and a large room which intersects at the bottom a beautiful gallery. Upstream, the meandering conduit gallery. Upstream, the meandering conduit
over 10 m sees its filling at the top rise to end up joining the arch channel. The latter end up joining the arch channel. The latter retains patches of clay filling, showing the the cavity was completely filled being partly reexcavated. At the end a small imp impenetrable (no air)

From the entrance hall, a drop of 2.5 m on a concretionary flow opens into a high and spacious downstream gallery. The large corridor ( 2.5 m wide and 4 m high) initially horizontal and rocky is then invaded by a beautiful concretion. The slope then
steepens on a stalagmitic floor. A widening forms a small room ( \(4 \times 3\) and 4 m high ) with a few dry gours on the ground. A small low bottleneck and a final draw ( \(1 \times 1 \mathrm{~m}\) ) close the cavity completely clogged with clay (-14)

Geological level: Lateral equivalents of Molino Limestones.
History of explorations: 2013 clearing of the entrance which had been closed for decades and visit (Guy Simonnot). April 29 2020: topography of the cavity (Guy 2020: topo
Simonnot)

References: Simonnot G, 2016; Simonnot G, 2018; References: Sim
Simonnot G, 202 Entrance picture : April 2020 Underground pictures : July 2020 Video
\(\qquad\)
MATIENZO UNDERGROUND site descriptions (printed 1902(2024) Volume 6 - page 96 Accuracy code: M) Altitude 452 m Area position

Updated 26th September 2018; 19th November 2022

The information below has been roughly translated The information below has been roughly transla
from the French, Spéléo-Club Dijon reference, Simonnot G, 2016 and 2022.

The shaft lies at the top of deep forested doline. On the side of a large opening, a vertical descent of 5 m gives access to a large steep corridor interspersed with two projections of 2 m . No continuation visible at -18m.
Explored by SC Dijon April, May 2014.
References: Simonnot G, 2016; Simonnot G, 2018; References: Simo
Simonnot G, 2022 Entrance picture : April 2014 Underground pictures : Video:
Detailed surve
Line Survey :
On area survey
Survex file
X
4373: Ilegible, Torca (2147
(French: SCD)
Arredondo 30T 452304 4792646 (Datum: ETRS89 Accuracy code: M) Altitude 377 m
Depth 3 m Depth 3 m

\section*{Area position}

Updated 26th September 2018; 19th November 2022
The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.

A small shallow pitch (3-4m). Marked by the AEC Lobetum but it has an indecipherable number.
References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022 Simonnot G, 2022
Entrance pictures :
Video:
Detailed survey Line Survey : On area surve Survex file :

\section*{x}

\section*{4374: Vecina Molino, Cueva} (2223 (French: SCD))
Bustablado 30T 4485484792138 (Datum: ETRS89. Accuracy code: M) Altitude 203m Length 15 m Depth 4 m Area position

Updated 26th September 2018; 19th November 2022

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

This hole lies about 40 m west of the Fuente del Molino (SCD2025 / MCP0791). A small 2 m climb leads to a broad low gallery of 1 to 2 m leading down to a beautiful stretch of sumped water ( \(5 \mathrm{~m} \times 2\) ). The cavity is an old resurgence in association with the Fuente del Molino. Explored SC Dijon, April 2015.

References: Simonnot G, 2016; Simonnot G, 2018; References: Simo
Simonnot G, 2022
Entrance picture
```

Entrance picture : April 2015

```
Underground pictures :
Video :
Detailed survey
Detailed sury
Line Survey
On area surve
On area sur
Survex file
X

4375: cave (2224 (French: SCD)) Bustablado 30T 4467434792730 (Datum: ETRS89. Accuracy code: M) Altitude 270 m Accuracy cod
Length 1 m Area position

Updated 26th September 2018; 19th November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2016.
This lies just upstream of the site SCD2036 / MCP4280. A small entrance where a passage is visible for several metres. Excavated SC Dijon, April 2015.

References: Simonnot G, 2016; Simonnot G, 2018 Simonnot G, 2022 Entrance picture : April 2015
Underground pictures : Underground pictures : MATIENZO UNDERGROUND - site descriptions (printed 19/02/202

\section*{4376: Vecina Molino 2, Cueva} (2240 (French: SCD) Bustablado 30T 4484884792141 (Datum: ETRS89. Accuracy code: M) Altitude 205m Area position

Updated 26th September 2018; 19th November 2022

Yhe information below has been roughly translated from the French, Spéléo-Club Dijon reference Simonnot G, 2016 and 2022.
This hole lies 100 m west of the fuente del Molino. Sensitive draft showing the relationship with the cueva del Molino. Excavated SC Dijon, May 2015.

References: Simonnot G, 2016; Simonnot G, 2018;
Simonnot G, 2022 Simonnot G, 2022
```

Entrance pictures:

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

\section*{4377: shaft (2241 (French:} SCD)
Arredondo 30T 4510934792535 (Datum: ETRS89. Accuracy code: M) Altitude 382 m
Area position

Updated 26th September 2018; 19th November 2022

An unexplored, small pitch of 3 or 4 m partially covered with branches and surrounded by 8 posts (with no barbed wire! surr
Described SC Dijon, May 2015.
References: Simonnot G, 2016; Simonnot G, 2018; References: Sim
Simonnot G, 2022 Entrance picture Underground pictures Video :
Detailed survey Line Survey : On area survey
x

4378: Rotura, Meandro del Hoyo de (2242 (French: SCD)) Accuracy code: M) Altitude 367 m
Area positior

Updated 26th September 2018; 19th November 2022

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

Thirty meters north-east of the torca del Hoyo (SCD2014 / MCP0752) at the foot of a rocky ledge that borders the depression. A small impenetrable slot with a discernable draught
Described SC Dijon, May 2015.
References: Simonnot G, 2016; Simonnot G, 2018;
Simennot G, 2022 Simonnot G, 2022
```

Underground picture

```
Underground pic
Video :
Detailed sur
Line Survey
On area sur
Survex file

4379: Laverón, Torca de (2282 (French: SCD))
Bustablado 30T 4482454792775 (Datum: ETRS89. Accuracy code: M) Altituc
Length 42 m Depth 36 m Area position

Updated 4th October 2017; 26th September 2018; 19th November 2022

First documented SC Dijon, October 2015 as a spacious pit about 20 m deep.
bottom, a long corridor, cluttered with various debris (bones, shards of bottles, etc goes under another beautiful chimney and is irreparably blocked at -36 . The torca opens at the top of the limestones of Vallina. Their outcrop in this area of of Vallina. Their outcrop in this area of
Linares forms the southern limit of the Comellante in Matienzo water supply basin. The chasm is indicated to Guy Simonnot by The chasm is indicated to Guy Simon descended June 2017. Despite the absence descended June 2017. Despite the absence
of traces of equipment it is not impossible of traces of equipment it is not impossib that the cavity was already seen by the
speleologists of Tortosa (in the 1990s?)

References: Simonnot G, 2016; anon., 2017c
(summer logbook); Simonnot G, 2018; Simonnot G, 2022
Entrance pictures : 2017 Video :
Detailed survey : elevation Line Survey : On area sur
Survex file

\section*{4380: shaft (2283 (French:} SCD))
Bustablado 30T 4482034792765 (Datum: ETRS89 Accuracy code: M) Altitude 557 m Length 12 m Depth 10 m Area position

Updated 4th October 2017; 26th September 2018; 19th November 2022

The information for this site has been shared by Guy Simonnot (Simonnot G, 2022) and roughly translated from the French using Google Translate a starting point. The original grid reference used ETR datum which has been converted to the MCP QGIS map.

A pitch of about 20 m . The chasm was certainly descended by speleologists from Tortosa. A spit is visible at the entrance. It was revisited June 2017 (Guy Simonnot and Peter Smith).

First described SC Dijon, October 2015.
References: Simonnot G, 2016; anon., 2017 c (summer logbook); Simonnot G, 2018; Simonnot G 2022 Entrance picture : 201 Underground pictures Video:
Detailed survey Line Survey On area surve

X
4381: cave (2284 (French: SCD)) Bustablado 30T 4479714792798 (Datum: ETRS89 Bustablado 30T 4479714792798
Accuracy code: M) Altitude 587 m Length 9 m Depth 4 m
Lecturact Area position

Updated 26th September 2018; 19tr November 2022

The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2018 and 2022

A 5 m long cave (entrance \(3 \times 1.2 \mathrm{~m}\) high) ends with a descending narrow fissure estimated at 3 to 4 m . The cavity opens into the base of the Linares sandstone of the Colorado formation (about twenty metres above the Vallina limestone). A few meters above the Vallina limestone). A few meters
above is other cavity which continues for 2.5 m and a small chamber is visible. ( 447.847 m and a small chamber
4793.065615 m ED50?)
Described SC Dijon, October 2015
References: Simonnot G, 2016; Simonnot G, 2018 ; Simonnot G, 2022
Entrance picture : October 2015
Underg: Detailed surve Line Survey :
On area surve On area sur
Survex file
x
4382: Vallina (bottom entrance), Cueva (2313 (French: SCD)) (Nospostentra, Cueva) Arredondo 30T 4507444792364 (Datum: ETRS89. Length see Cueva Vallina Area position

Updated 9th May 2016; 26th September 2018; 19th November 2022

The bottom entrance to Cueva Vallina also called the Lost Pot Entrance. A rock face conceals a sideways shuffle to an excavated climb down into the system. The site was discovered after surveying from the upper entrance to a small clay beaker. The smoke from burning neoprene close to the beaker was spotted on the surface and a dig opened up the connection.
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
Volume \(6-\) page 99

The temperature of the draught in All photos, both surface and underground, around this entrance are filed under the Cueva Vallina (0733) code

References: Simonnot G, 2016; Simonnot G, 2018; Simonnot G, 2022 (For other references see Cueva Vallina)
Entrance pictures : (See Cueva Vallina) Underground pictures:

\title{
4383: Labrada (\& sink), Fuente
}
Video:
Detailed survey
Line Survey
On area survey
Survex file
4385: cave
Alisas 30T 447521 4793126 (Datum: ETRS89,
Alisas 30 T 4475214793126 (Dat
Accuracy code: A) Altitude 581 m
Accuracy code
Area position

Updated 9th May 2016
A small sandstone cave in the Torca del Hoyón depression which has a small wal across the entrance. Water was found sinking to the north of here in April 2016.
References: anon., 2016a (January, February

A short hole leads to a tight rift that needs enlarging to check. Possibly blind.
References: anon., 2016b (Easter logbook)
Entrance pictures : Easter 2016
Underground picture :
Underground picture :
Video:
Detailed survey
Line Survey :
Line Survey:
Survex file :
X
4388: shaft
Riaño 30T 4527454799214 (Datum: ETRS89.
Accuracy code: G) Altitude 351 m
Accuracy
Depth 4 m
Area position
An undescended narrow rift that needs a
ladder.
References: anon., 2016b (Easter logbook)
Entrance pictures : Easter 2016
Underground picture :
Video :
Detailed survey
Line Survey
On area surv
Survex file
x
4389: shaft
Riaño 30T 4526334799251 (Datum: ETRS89
Accuracy code: G) Altitude 301 m
Length 3m Depth 3m
Area position
A 2.5 m deep pit which is choked at the
bottom.
References: anon., 2016b (Easter logbook)
Entrance pictures : Easter 2016
Entrance pictures : Ea
Undergr
Video :
Video:
Detailed survey
Line Survey
On area survey :
Survex file
X
4390: shaft
4390: Shaft 479434 (Datum: ETRS89
Ozana 30T 4553424794434 (Datum: ETRS89
Accuracy code: G) Altitude 505 m
Length 8 m Depth 7 m
Length 8 m d
Area position
A p4 drops onto a slope with stacked blocks
descending to 7 m depth.
References: anon., 2016b (Easter logbook)
References: anon., 2016b (Easter
Entrance pictures : Easter 2016
Entrance pictures : Easte
Underground picture :
Underg
Detailed surve
Line Survey
On area survey :
On area sur
Survex file :
x
4391: Gencia, El Cubio de
Riaño 30T 4507464800374 (Datu
Accuracy code: G) Altitude 135 m
Accuracy code
Area position

A small resurgence enclosed and used as cheese store.

References: anon., 2016b (Easter logbook) Entrance pictures : Easter 2016 Underground picture
Detailed survey :
Letailed sur
On area survey
Survex file :
x
4392: holes
Riaño 30T 4507064800902 (Datum: ETRS89.
Accuracy code: G) Altitude 114 m
Area position

Muddy holes exposed by the road widening.
```

References: anon., 2016b (Easter logbook)
References: anon., 2016b (Easter

```
Entrance pictures : Eas
Underg
```

Video:
Detailed survey
Letailed surv:

```
On area surve
Survex file :
X
4393: shaft
La Secada 30T 451536 4797776 (Datum: ETRS89.
La Secada 30T 4515364797776 ([
Accuracy code: G) Altitude 263 m
Accuracy code: G) Altitu
Area position
Updated 26th September 2023

A 4 m pitch in a field descended to a tiny rift MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
Volume \(6-\) page 10

\section*{filled with blocks. No draught was felt when} checked, August 2023

References: anon., 2016b (Easter logbook); anon., References: anon., 2016
2023 c (summer logbook)

\section*{4394: shaf}

\section*{Riaño 30T 4505754800166 (Dat}
Accuracy code: G) Altitude 223 m
Accuracy
Depth 3 m
Area position

A hole with muddy walls which may continue beyond the visible constriction.

References: anon., 2016b (Easter logbook) References: anon., 2016b (Easte
Entrance pictures : Easter 2016
Underground picture
Video :
Detailed survey
Line Survey
On area survey
Survex file

4395: dig Hoznayo 30T 4434394804680 (Datum: ETRS89, Hoznayo 30 Accuracy code: G) Altitude 78 m Accuracy code
Area position

A small dig.
References: anon., 2016b (Easter logbook)
References: anon.
Entrance pictures Underground picture Video :
```

Detailed
Line Survey

```
On area survey
Survex file

4396: cave
Alisas 30T 447925 4793920 (Datum: ETRS89 Alisas 30 T 4479254793920 (Datı
Accuracy code: G) Altitude 605 m Accuracy code: G) Alti
Length 5 m Depth 5 m Aength

A clump of trees in the south side of a field conceals a cave entrance to a 5 m scramble conceals a cave entrance to
down to a draughtless choke

References: anon., 2016b (Easter logbook)
References: anon., 2016b (Easter
Entrance pictures : Easter 2016 Entrance pictures : Eas
Underground picture : Underg
Video :
Detailed surve
Line Survey On area surv Survex file

\section*{4397: cave}

Navajeda 30T 4447844800684 (Datum: ETRS89 Accuracy code: A) Altitude 167m
Length 10n

\section*{4398: sink}

Hoznayo 30T 4433404804792 (Datum: ETRS89. Accuracy code: G) Altitude 55m

\section*{Accuracy cod
Area position}

Updated 28th October 2016
A shallow field drainage valley sinks in a mess of tyres. According to a visit in Jul 2016, any progress would "require the removal of at least 15 wagon and tractor tyres.

References: anon., 2016b (Easter logbook); anon., 2016c (summer logbook)

4399: cave

\section*{Length \(5 m\)
Area positic}

References: anon., 2016b (Easter logbook) References: anon., 2016b (Easter
Entrance pictures : Easter 2016 Underground picture : Video:
Detailed survey Line Survey On area survey Survex fil

X
4400: shaft
San Antonio 30T 4467434801679 (Datum: San Antonio 30 T 4467434801679 (Datum
ETRS89. Accuracy code: G) Altitude 113 m ERS8. Accu
Depth \(2 m\)
Area position
A tiny, \(2 m\) deep shaft that looks choked.
A tiny, 2m don 2016b (Easter logook) References: anon., 2016b (Easter
Entrance pictures: Easter 2016 Entrance pictures : Ea

\section*{Video :}
```

Detailed surv
Line Survey :

```
On area survey
Survex file :
X
4401: cave
San Antonio 30T 4461664802048 (Datum:
ETRS89. Accuracy code: G) Altitude 58 m
Length 20 m
Length 20 m

\section*{Updated 22nd May 2023}

The GPS reading was taken at the top The GPS reading
edge of the "shaft"
A cave cut into the hillside so that the top edge is a 5 m drop and the bottom side can be walked down (through brambles). At the bottom, a small stream comes from a sumped pool and flows into the field. It may be possible to drain the sump to some degree and it is probably worth a dive. Holes above the sump all choke.

During dry weather, Easter 2023, the sump had vanished and a hands-and-knees crawl for 8 m met deeper water. The passage continues for about 5 m to a left hand bend where the explorer "didn't fancy a soaking".
About 7 m of passage was found at the bottom end of the shakehole which connects with a tight rift in the field below.

Link to entry in the Cave Diving Sump Index.

References: anon., 2016b (Easter logbook); anon., References: anon., 2016b (Easter logbook); anon.
2023b (Easter logbook)
Entrance pictures : Easter 2016 : Easter 2023 Entrance pictures : Easter 2016 : Easter 2023 Underground picture : Video :
Detailed survey :
Line Survey
On area surve
Survex file
X
4402: shaft
4402: Shaft Fresnedo 30T 4541484800775 (D
Accuracy code: G) Altitude 422 m Accuracy cc
Depth 2 m
Depth \(2 m\)
Area position
Site 4403 and this one are about 4 m apart. Site 4402 is covered with a pallet and has not been fully investigated.
```

References: anon., 2016b (Easter logbook)
References: anon., 2016b (Easter
Entrance pictures: Eas
Video:
Detailed survey
Line Survey
On area survey :
Survex file :
X
4403: shaft
Fresnedo 30T 454145 4800775 (Datum: ETRS89.
Fresnedo 30T 454145 4800775 (D
Accuracy code: G) Altitude 422m
Area position
Site 4402 and this one are about 4 m apart. Site 4402 and this one are about 4 m apart.
Site 4403 has a pallet a couple of metres Site 4403 has a pallet a couple of metres
down holding back a dead animal and has down holding back a dead ar fully investigated.
References: anon., 2016b (Easter logbook)
Entrance pictures : Easter 2016 Entrance pictures : Easter 2016 Underground picture
Video:

```
```

Detailed survey
Detailed sur
On area survey
On Survex file :
x
4404: depression
Fresnedo 307 454111 4800780 (Datum: ETRS89.
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024

```

4405: cave

\section*{4407: Canastrillas, Torca de} La Helguera 30T 4509774802364 (Datum:
ETRS89. Accuracy code: G) Altitude 179 m Length 14 m Depth 8 m Area position

Updated 28th October 2016; 4th October 2017

An open hole in a field surrounded by fence and trees. A slippy traverse and climb down or a p6 lands on a bouldery slope. At the bottom, an obstructing boulder has been snappered out of the way. A very loose passage leads down over boulders to a cross rift which is choked at the bottom. There may be a digging possibility towards the rift, may be a digging possibility t
but shoring would be needed. Some work in the summer and Christmas 2016 and August 2017 confirmed that any progress would require a long dig and progress would require a long dig

References: anon., 2016b (Easter logbook); anon References: anon., 2016b (Easter logbook); ano
2016c (summer logbook); anon., 2017 c (summer logbook)

\section*{Accuracy c
Depth 4 m
Area positi}

A small hole that looks choked
References: anon., 2016b (Easter logbook)
Entrance pictures : April 2016 Entrance pictures : April 2016
Underground picture : Underground picture :
Video : Video:
Detailed survey Line Survey On area surve
Survex file : X
4410: hole
Alisas 30T 447548 4794210 (Datum: ETRS89. Accuracy code: G) Altitude 659 m Arcuracy code

This needs work to get in but looks choked.
References: anon., 2016b (Easter logbook) References: anon., 2016b (East
Entrance pictures: April 2016 Underground picture : Video :
```

Detailed surve

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

4411: shaft
S Vega 30T 4524514794789 (Datum: ETRS89. S Vega 30T 4524514794789 (Datu
Accuracy code: G) Altitude 413m Accuracy code: G) Altit Area position

A 5m deep choked shaft.
References: anon., 2016b (Easter logbook) References: anon., 2016b (East
Entrance pictures : April 2016 Underground picture : Video :
```

Detailed s

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

4412: hole

\section*{Updated 26th September 2018}

A small hole covered with rock. One metre A small hole covered with rock. One metre
down to plastic bags. Location confirmed, down to plastic
summer 2018.

References: anon., 2016b (Easter logbook); anon. 2018c (summer logbook) Entrance pictures : 201

\section*{Video :}

\section*{Detailed \\ Line Survey :}

On area surve
Survex file :
x
4413: depression
S Vega 30T 4522044794894 (Datum: ETRS89. Accuracy code: G) Altitude 417 m Area position

Updated 26th September 2018
A depression full of brambles with holes under sandstone blocks. Not looked at ir detail. The brambles had disappeared(?) by August 2018.

References: anon., 2016b (Easter logbook); anon.
2018c (summer logbook) Entrance pictures: April 2016, August 2018 Underground picture Video : Detailed surve On area survey : Survex file

X
4414: dig
N Vega 30T 4495764796259 (Datum: ETRS89. Accuracy code: G) Altitude 445 m
Length 3 m Length 3 m Area position

This hole was dug open to a 3 m tube to an eye hole. It looks larger beyond.
```

References: anon., 2016b (Easter logbook)
Entrance pictures:
Underground picture
Underground pictu
Video:
Detailed survey
On Survey
Survex file :
X
4415: shaft
S Vega 30T 452172 4794991 (Datum: ETRS89.
Accuracy code: G) Altitude 380m
MATIENZO UNDERGROUND - site descriptions(printed 19002/2024

Length 4 m Depth 3 m
Area position
Area postio
A choked, draughtless shaft.
References: anon., 2016b (Easter logbook)
References: anon., 2016b (Eas
Entrance pictures : April 2016
Underground picture
Video:
Detailed survey
Dine Survey
On area survey
Survex file

## 4416: Broken Chisel Poi

## s Vega 30T 4522364794982 (Dat S Vega 30T 4522364794982 (Datum: ETRS89

 Length 18 m Depth 4 m Area positionA small, block-covered hole with a good draught that was dug out in 2016 to reveal a strongly draughting, 3 m deep rift. Capping and further excavations took place in August 2018 to reveal a decorated, old cave 2018 to reveal a decorated, old cave passage with the draught coming from tw narrow fissures going into the hillside. A voice connection was made with site 4417 from above a possible dig in the floor at the start of the second fissure.

References: anon., 2016b (Easter logbook); anon. 2016c (summer logbook); anon., 2018c (summer

Entrance pictures : April 2016 : August 2018 Entrance pictures : April 2016 : Augu:
Underground pictures : August 2018 Video : 4416 area fly-over (YouTube) Detailed survey : pdf, 2018 Line Survey : On area survey Survex file: August 2018
bumps down a slope.
References: anon., 2016b (Easter logbook); anon.,
2018c (summer logbook)
Entrance pictures : April 201
Underground picture
Video :
Detailed survey
Line Survey
On area sur
Survex file
x
4419: shaft
S Vega 30T 4524944794801 (Datum: ETRS89
Accuracy code: G) Altitude 400 m
Length 7 m Depth 7 m
Area position

## Length 11 r Area positio

pdated 28th October 2016; 24th May 2017
The site had a number of bones and teeth excavated and itemised in Ruiz Cobo J and Muñoz Fernández E, 2013
A low and wide entrance in a rock face near the road. It quickly branches into two short, low passages with no obvious way on At Easter 2017, the left hand passage was dug to a low choked chamber, the right became too tight. The site does not warrant ecame too tight. The site does not warrant further digging.
(Description by John Southworth)
References: Ruiz Cobo J and Muñoz Fernández E, 2013 (survey); anon., 2016b (Easter logbook); non., 2016c (summer logbook); anon., 2017b Entrance pictures : March 2016 Entrance pictures : Mar
Underground picture Video :
 Fernández E, 2013 Line Survey On area survey
Survex file :

X
4421: cave
Barrio de Arriba 30 T 4447344799436 (Datum: Barrio de Arriba 30T 4447344799436 (Dat
ETRS89. Accuracy code: G) Altitude 134 m Length 25 m Depth 15 m Area position

A natural cave in a vegetated gulley, 2 to 3 m across, which becomes deeper and shelves under an ancient roof with a smashed stalagmite column. A stalagmite smashed stalagmite column. A stala
barrier has been smashed, leading barrier has been smashed, leading
immediately to a 10 m pitch to a slopin immediately to a 10 m pitch to a sloping
rubble floor. A rift leads into the hill but progress is stopped after 4 m by a thick flow progress is stopped after 4 m by a thick fl
of calcite on the left wall. The rift is 5 m of calcite on the left wall. The rift is 5 m
high, with walls adorned with stalactites, high, with walls adorned with stalactites,
helictites and cave popcorn. A stone thrown helictites and cave popcorn. A stone thro
into a hole beyond the flow produces an into a hole beyond the flow produces an
echoing 'plop'. There is a slight draught.
References: anon., 2016b (Easter logbook)
Entrance pictures : March 2016 Entrance pictures : March 2016 Underground picture

## Video :

Detailed surve On area surve Survex file

X
4422: dig
Barrio de Arriba 30T 4447654799592 (Datum: ETRS89. Accuracy code: G) Altitude 155 m Length 3m
Area position
This site was found as a dig under a rock outcrop with a good draught. The entrance was subsequently enlarged slightly to revea a 1.5 m drop onto a boulder pile and slope down into a small chamber. There was no way on and very little draught.

References: anon., 2016b (Easter logbook) References: anon., 2016b (Easter
Entrance pictures : March 2016 Underground picture :

## Video :

## Detailed surve

Line Survey
Survex file :

X
4423: shaft
San Antonio 30T 4472874802701 (Datum San Antonio 30T 4472874802701 (Datum
ETRS89. Accuracy code: G) Altitude 155m Length 18 m Depth 9 m Area position

A 3.5 m diameter shaft and 8.5 m deep, with an adjoining chamber at the base of $6 \mathrm{~m} x$ $3.5 \mathrm{~m} \times 5 \mathrm{~m}$ high. There is no way on.

References: anon., 2016b (Easter logbook) Entrance pictures : March 2016 Underground picture : Video :
Detailed survey Line Survey Survea surve

X
4424: shaft
San Antonio 30T 4473414802745 (Datum: ETRS89. Accu
Length 6 m Area position

A steep 9m descent in a limestone-sided depression to a daylight shaft. A further 1 m wide descending rift ends at a small, high wide descending rift ends
chamber with no way on.

References: anon., 2016b (Easter logbook) References: anon., 2016b (Easter
Entrance pictures : March 2016 Underground picture : Video :
Detailed survey :
MATIENZO UNDERGROUND - site descriptions (printed 1910022024 $\begin{gathered}\text { Volume 6- page 10 }\end{gathered}$

## Line Surve

## 4425: shaft

San Antonio 30T 4473594802741 (Datum: ETRS89. Accuracy code: G) Altitude 157 m Length 12 m Depth 12 m

## Area position

A steep 9 m descent in a limestone-sidec depression to a daylight shaft. A further 1 m wide descending rift ends at a small, high chamber with no way on.

```
References: anon., 2016b (Easter logbook)
```

Underground picture
Video :
Detailed survey
Detailed sur
Line Survey
Line Survey
On area sur
Survex file
X
4426: shaft
Navajeda 30T 4438044800475 (Datum: ETRS89
Accuracy code: G) Altitude 205m
Accuracy code: G) Alti
Length 3 m Depth 3 m
Area position

The entrance to this 3 m choked rift is in a small depression up the side of a much larger one. Old solution tubes at the base of this larger depression are site 4448.

References: anon., 2016b (Easter logbook) Entrance pictures : April 2016 Underground picture

4428: cave

## 4429: resurgence

 Accuracy code: G) Altitude 350 m Length 12 m Depth 8 m
## 教

A $3 \times 4 \mathrm{~m}$ shaft descended to 8 m with no way on. A small dig next to the shaft was too tight after 5 m
References: anon.,
Entrance pictures:
Underground pictur
Underground picture
Undergro
Video:
Video:
Detailed surve
Detailed surv
Line Survey.
Survex file
x
4431: sink
Fresnedo 30T 4524814800716 (Datum: ETRS89.


A trough with sink and an inspection hatch at the junction of two tracks.

References: anon., 2016b (Easter logbook) Entrance pictures : April 2016
Underground picture : Underground picture : Video:
Detailed survey Line Survey On area surve
Survex file :

X
4432: shaft
4432: Shaft Fresnedo
Accuracy code: G) Altitude 252 m Accuracy co
Depth 2 m
Area position
A small shaft / collapse in boulders and soil next to a shale collapse on the steep stream bank. The drop may go deeper than 2 m .

References: anon., 2016b (Easter logbook) References: anon., 2016b (Eas
Entrance pictures : April 2016 Entrance pictures : Apr

## Video:

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Detailed surve
```

Line Survey
On area survey
Survex file
X

4433: sink Fresnedo 30T 4528034800562 (Datum: ETRS89. Fresnedo 30T 4528034800562 (D
Accuracy code: G) Altitude 300 m Accuracy code
Area position

A small sink and collapse.
References: anon., 2016b (Easter logbook)
Entrance pictures : April 2016 Entrance pictures : April 2016 Undergr

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Detailed sur
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\begin{aligned}
& \text { Detailed surve } \\
& \text { Line Survey }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ine survey : } \\
& \text { on area survey }
\end{aligned}
$$

Survex file :

X
4434: sink
Camposdelante 30T 4462734798939 (Datum: ETRS89. Accuracy code: G) Altitude 146 m Area position
A dig which is a small choked stream sink about 1 m deep with possible bedrock on on side. It takes 2 streams in wet weather.
References: anon., 2016b (Easter logbook) Entrance pictures

```
Underground picture
Video :
```

```
Video:
```

Detailed survey
On area surve :
Survex file :
X

4435: dig
Cobadal 30T 4481514797439 (Datum: ETRS89 Accuracy code: G) Altitude 299m Depth 6m
Area positi Area position

Updated 13th January 2018
A draughting shakehole that was excavated on a couple of occasions. It is now 3 m deep and draughting slots may go down another 3 m .

References: anon., 2016b (Easter logbook) References: anon., 2016b (East
Entrance pictures: April 2016 Underground picture Video : capping the entrance (parental guidance!) Detailed survey Line Survey On area surv
Survex file :
x
4436: dig
Las Calzadillas $30 T 4473084797276$ (Datum: MATIENZO UNDERGROUND - site descriptions (printed 19/02/20224

ETRS89. Accuracy code: G) Altitude 218 m
Depth 2 m
Video :
Detailed survey
Line Survey
On area survey
Survex file
4438: hole
Las Calzadillas 30 T 4473224797321 (Datum:
Las Calzadillas 30 T 4473224797321 (Dat
ETRS89. Accuracy code: G) Altitude 228 m
ETRS89. Accur
Area position

## A hole in a cleared area.

References: anon., 2016b (Easter logbook)
References: anon., 2016b (East
Entrance pictures : April 2016

```
Entrance pictures:Apr
```

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

## 4439: cave

Las Calzadillas 30T 4473034797361 (Datum: ETRS89. Accuracy code: G) Altitude 216 m Length 2 m

A small 2 m long passage below boulders, below a horizontal line of large boulders in the gully. There is no draught.

```
References: anon., 2016b (Easter logbook)
```

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

## 4440: cave

Cobadal 30T 4477544797762 (Datum: ETRS89 Accuracy code: G) Altitude 227 m
Area position Area positior

A draughting cave under large boulders which is too small without digging.

References: anon., 2016b (Easter logbook)
Entrance pictures : April 2016 References: anon., 2016b (Eas Underground picture :

```
A dig.
```

References: anon., 2016b (Easter logbook)
References: anon., 2016b (Eas
Underground picture :
Video:
Detailed survey
Line Survey
On area surve
Survex file :
Survex fil
X
4443: diq
Barrio de Arriba 30T 4443504799422 (Datum:
Barrio de Arriba 30T 4443504799422 (D
ETRS89. Accuracy code: G) Altitude 99 m
Area position
A dig.
References: anon., 2016b (Easter logbook)
References: anon., 2016b (East
Entrance pictures : April 2016
Entrance pictures : Ap
Underground picture :
Video:
Detailed survey
Line Survey
On area survey :
Survex file
X
4444: Injanas 2, Cueva de las
4444: injanas 2, Cueva de las
Accuracy code: A) Altitude 51 m
Length
4001
Area position

There are 2 entrances on the side of a limestone scar. The top one is a 2 m drop onto a bouldery slope. The usual one, a couple of metres away, is a narrow slide-in to a climb down a rift. Another couple of metres down the scar another hole in leaf litter may be big enough to crawl through The cave is stooping or crawling size in mall phreatic tubes with some ancient collapse near the entrances. To the right (south) near the entrance, an overtight slide down meets the stream that sinks near the base of the entrances scar and flows through into Injanas 1 (video).

To the left (east), a crawl leads to slopes down and a choke all round in calcite that comes close to the anastomoses in Injanas 1. A soil slope and the final slope with small gour pools are the resting ground for a large number of snails, some calcited over

Up to the north of the calcite floor chamber is a crawl through to a 5 m climb down into a narrowing rift.

References: anon., 2016b (Easter logbook) References: anon., 2016b (East
Entrance pictures : April 2016 Underground pictures: April 2016 : snails Video : over-tight squeeze from Injanas 2 to Injanas 1 (YouTube)
Detailed survey : Easter 2016 - svg file : pdf file Detailed surv
Line Survey : On area surve Survex file : yes

X
4445: Pozo Negro
Riaño 30T 4512144800689 (Datum: ETRS89
 Depth 10 m to water level (Grid reference is at depression top edge) Area position

Updated 28th October 2016
A large, deep pool approached down a A large, deep slope. This is associated with the main Riaño resurgence, site 575 but there appears to be no passable route between them. The Pozo Negro has been dived in the past to where it became too narrow. The
underwater investigation was repeated in underwater investigation was repeated in
April 2016 (video) and the route forward April 2016 (video) and the route forward A small resurgence also drains into the A small resurgence also drains into the pool and this is documented on the April 2016 video. See the resurgence page for
more information. more information.

Link to entry in the Cave Diving Sump Index.
References: anon., 2016b (Easter logbook) Entrance pictures : from the resurgence page Underground picture : Video : Dive and small resurgence - April 2016 Detailed survey : sketch on resurgence survey (Easter 2016) Line Survey On area survey : Survex file : to water level as surface survey on
resurgence page resurgence page

A twin depression in the vicinity of the Injanas caves (sites $4001 \& 4444$ ). One is choked with mud, the other ponded, where the overflow sinks in mud.

| MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 |
| :--- |
| Volume 6-page 11 |

Detailed surv
Line Survey
On area survey

## 4449: hole

Fresnedo 30T 451820 4801635 (Datum: ETRS89 Accuracy code: G) Altitude 246 m
Length 1 m Depth 1 m

## Area position

A small hollow under sediment capped with sandstone.

References: anon., 2016c (summer logbook)
Entrance pictures: July 201

## 4450: hole

Alisas 30 T 4472734795972 (Datum: ETRS89. Accuracy code: G) Altitude 392 m Area position

Updated 10th November 2021
A road-side hole. (No description). This was "rechecked" in September 2021

References: Easter 2016 in anon., 2016c (summe logbook); anon., 2021d (autumn logbook) Entrance pictures : Easter 2016

An obvious undercut dig in the base of a small shakehole. Note 5392 is very close. The same site?

References: Easter 2016 in anon., 2016c (summer logbook)
 Underground picture Video :
Detailed survey Line Survey Survex file :

X
4453: dig
Cobadal 30T 4476894798297 (Datum: ETRS89 Accuracy code: G) Altitude 200m Area position

A new, small collapse near site 2179 Badger Hole.

```
References: Easter 2016 in anon., 2016c (summer
Referenc
```

Entrance pictures : Easter 2016
Underground picture :
Video:
Detailed survey
Line Survey
On area survey
Survex file :
X
4454: resurgence
4454: resurgence
Cobadal 30T 4476324798253 (Da
Accuracy code: G) Altitude 214 m
Arcuracy cosition
"Ten metres away is resurgence cave?
"Ten metres away
Feeding trough."
References: Easter 2016 in anon., 2016c (summer
Referenc
Entrance pictures
Underground picture
Vider :
Detailed survey
Line Survey
On area survey :
Survex file :
X
4455: resurgence
Cobadal 30T 4477424798244 (Datum: ETRS89
Cobadal 30T 4477424798244 (Da
Accuracy code: G) Altitude 211 m
Accuracy code
Area position

A concrete water tank with a tin roof is fed from a rising behind asbestos sheet. A water supply.
References: Easter 2016 in anon., 2016c (summer logbook) Entrance pictures : Undergr Detailed survey Line Survey On area surve Survex file :

## x

4456: cave
Cobadal 30T 447768 4798239 (Datum: ETRS89 Accuracy code: G) Altitude 210 m Area position

An unexplored small cave. There are other, too small to enter, holes to the east along the bedding

References: Easter 2016 in anon., 2016c (summer logbook
Entrance pictures : Easter 2016 Underground picture
Detailed survey
Line Survey
On area survey
On area sur
Survex file
x

4457: cave
Cobadal 30 T 4490264798303 (Datum: ETRS89.
Accuracy code: G) Altitude 272 m Accuracy code: G) Altitude 272 m Length 38 m Depth 14 m

## Area position

This site was excavated, explored and documented over 4 days in July 2016, after obtaining permission to dig open a cold store. The dig broke into the the top of an angle-of-rest boulder slope. At the base are three choked holes which draught. Forward, a slippery climb up leads through formations on a taped route. The end is a low dig with slight draught. However, due to the formations, there is nowhere to put spoil.

References: Easter 2016 in anon., 2016c (summer logbook); anon., 2016c (summer logbook) Entrance pictures : 2016

```
Underground pictures : 2016
```

Underground pictures :
Video:
Detailed survey : sketch
Detailed surve
Line Survey:
Line Survey :
On area surve
Survex file :

MATIENZO UNDERGROUND - site descriptions (printed $19002 / 2024$

## 4458: dig

San Antonio 30T 4453964800312 (Datum: ETRS89. Accuracy code: G) Altitude 211m Area position

Updated 20th May 2019
A small draughting hole in boulders that would be a major dig. This is in the smaller of two shakeholes at the location. The larger, eastern and much deeper shakehole with a rubbish tip going in one side was not examined. It would be worth a look. Beware of the dogs at the adjacent farm!

In May 2019, the grid reference at this smaller depression was recorded (above) There was no draught on that occasion. The previous grid reference (for the larger depression) is 30T 4454444800287.
References: Easter 2016 in anon., 2016c (summer
logbook); anon., 2019 b (Easter logbook) logbook); anon., 2019b (Easter logbook) Entrance pictures : May 2019
Video :
Video :
Detailed survey
Line Survey
Line Survey:
On area surve
On area sur
Survex file

## 4429: resurgence

Ideopuerta 30T 4459554795616 (Datum: ETRS89. Accuracy code: G) Altitude 309 m
Area position

Updated 28th October 2016
A small stream issues from under a boulder. There is an outward draught. In the summer, 2016, this site was found to be tight "after a $3 m$ climb up rock face".

References: anon., 2016b (Easter logbook); anon., References: anon., 2016
2016c (summer logbook) Survex fil

## x

4463: Iglesia 1, Cueva de la
(Navajeda, Cueva de)
Navajeda 30T 4438064801654 (Datum: ETRS89. Accuracy code: G) Altitude 57 m Length 151 m Depth 8 m

## Area position

A notable entrance, up from the field and in dense trees. A slope down into the entrance is followed by a low crawl down into a chamber. Leading off are a number of short climbs and squeezes, all red mud coated. The cave has a small window to the outside to the south.

The site has been the scene of
rchaeological investigations since 1922 and many artefacts have been catalogued. The explorations and survey of 2016 extended explorations and survey of 2016 extend the cave to the
Spanish survey.

References: Ruiz Cobo J and Muñoz Fernández E , Rences: Ruiz Cobo J and Muñoz Fernández
(survey); anon., 2016c (summer logbook) 2013 (survey); anon., 2016c (su Underground pictures : July 2016 Video : Exploration and survey, 2016 (YouTube) Detailed survey: from Ruiz Cobo J and Muñoz Fernández E, 2013 : pdf 2016 Line Survey
On area survey
Survex file : yes
x
4464: diq
Ozana 30T 4542354794505 (Datum: ETRS89 Accuracy code: G) Altitude 275 m Area position

An excavation into a draughting, farmerfilled hole that produced a small rift and eyehole. A rock bench blocking progress wa eyehole. A rock bench blocking progress
removed but the passage stayed small removed but the passage sta

```
References: anon., 2016c (summer logbook)
ntrance pictures: yes
Narground pictures :
Ideo :
Detailed survey
Line Survey
On area surve
Survex file
x
4465: shaft
Riolastras 30T 455475 4802346 (Datum: ETRS89.
Accuracy code: G) Altitude 190m
Length 10m Depth 7m
Area position
```

A wooded shakehole with a shaft in the side at the base. A 6 m pitch drops into a chamber with a boulder-choked rift.

```
References: card; video
References: card, video
Underground pictures:
Video : exploration
Detailed surve
On area survey
Survex file :
X
4466: dig
S Vega 30T 452816 4794860 (Datum: ETRS89
S Vega 30T 452816 4794860 (Dat 
```

This dig is about 15 m west of the Dairy Dig, site 1189 , close to a walnut tree, and is a small vertical, draughtless slot which is too tight to enter. The passage appears to drop 1 m then heads west, very low and out of sight.

References: anon., 2016c (summer logbook) Entrance pictures : ye Underground pictures Video:
Detailed surve
Line Survey Line Survey On area surve

X
4467: shaft
Ozana 30T 4543424794439 (Datum: ETRS89 Accuracy code: G) Altitude 300 m Length 15 m Depth 9 m Area position

A roomy, choked, 9 m deep shaft with a 5 x 3 m top. The base slopes down to a possible dig, although there is no draught

## References: anon., 2016c (summer logbook)

 References: anon., 2016Entrance pictures : yes Underground pictures : yes Video:

## Detailed surve

MATIENZO UNDERGROUND - site descriptions (printed $19002 / 2024$

```
On area surve
Survex file
```


## 4468: Lady's Cave

## Area position

A short crawl to a rift which has unstable steps of rubble held back by windscreens The large passage has a pit in the floor and chokes up at the end with no way on.

References: anon., 2016c (summer logbook) Entrance pictures : yes Underground pictures : yes
Video
Detailed survey : pdf
Line Survey :
One Survey:
On area survey
Survex file : yes
Survex file : yes
X
4469: shaft
Riolastras $30 \uparrow 4556274803491$ (Datum: ETRS89
Accuracy code: G) Altitude 107 m
Depth 5 m
Area position

A 5m deep, tight and undescended shaft
References: card
Entrance pictures :
Underground pictures
Video
Detailed sur Line Surve
On area su On area surv
Survex file :

# References: anon., 2016c (summer logbook 

References: anon., 2016
Entrance pictures : yes Entrance pictures : yes
Video :
Detailed survey
Line Surve
On area survey
Survex file

4471: cave
La Colina 30T 453035 4797259 (Datum: ETRS89 Accuracy code: G) Altitude 261 m
Accuracy cod
Area position
An over-tight, possible second entrance to site 1247.

References: anon., 2016c (summer logbook) Entrance pictures: yes
Video
Detailed survey
Line Survey
On area surve
On area sur
Survex file

4472: cave
La Secada 30T 4528314797235 (Datum: ETRS89 Accuracy code: G) Altitude 176 m

Updated 30th November 2016

## This site has a small entrance in very

 dense woodland. A crawl-in entrance goes for about 2 m then immediately chokes. There are some very old stal and no draught.References: anon., 2016c (summer logbook); anon., 2016d (autumn logbook
area - they have been informed.
A strongly draughting hole at the base of a cliff which was originally blocked with a boulder. A p10 down a rift with jammed blocks to a jammed boulder floor. A p5? follows with the curled-up skeleton at the head. At the base a 5 m drop descends into narrow rift with another pitch (unknown depth) in the enlarged rift passage to a short drop onto a debris slope in a "decent size" passage. Some exploration on this level has occurred with more leads to look at, including a draughting passage that can be dug.
In October 2017, all leads closed down in mud-choked ends although two of the passages were connected to give a small round trip. A choke blockage dig in calcited mud and stone was also excavated and eventually it was possible to get partway into the continuation which turned out to be the bottom of a large space, with some large hanging death visible up in the roof. A return with capping gear is required. Surveying will occur at Easter 2018. The site was shown to Miguel from the G.E. Pistruellos in November 2016.

References: anon., 2016c (summer logbook)
anon., 2016d (autumn logbook); anon., 2017d anon., 2016d (autu
(autumn logbook)
Entrance pictures : 2016 summer : autumn 2017 Underground pictures: 2016 summer : autumn 2017
Video :
Detailed surve
Line Survey:
Survex file :
x
4474: shaft
Moncobe 30T 4455224797834 (Datum: ETRS89. Accuracy code: G) Altitude 165 m Length 548 m Depth 33 m Area position

Updated 30th November 2016; 10th January 017; 24th May 2017; 3rd, 15th January 26th September, 11th December 2018; 18th May, 5th June, 25th July 2019

This site is in the Pistruellos area in woodland.

A strongly draughting hole found at the head of a small rocky gully. The site has been excavated to a p7 which is tight part way down. An alternative route could be enlarged.

Three visits were made in November 2016 when the p7 was enlarged and dropped into "holes, large boulders, debris slopes formations and two reasonable possiblities for extension". The first was a caveable tub partially obstructed by small formations but with no sign of a draught. The second lead is up a slope to a higher level where there wa a climb down through a hole that would require some modification to descend. "Strangely there was a good draught coming upwards at this point."
This hole was eventually dropped after chipping the edge of the obstructing slab. Beyond there were several possible ways on, all of which need some work. The most enticing was immediately below the climb down - a narrow, partially blocked, downward rift which is the source of the draught.
The site was shown to Miguel from the G.E. Pistruellos in November 2016.

At Easter 2017, three possibilities for extension were identified - all draughting into the known cave passage. The route down to the lower parts was enlarged and the known cave surveyed. A narrow section was opened up to 12 m of passage that ended at a big dropped flake with passage seen beyond. The flake was demolished and a series of chambers / large passage with roof formations was entered terminating at another tight section at roof level. This is tight and awkward and will require work for further progress - but there is a draught. The new section was surveyed. (Survey wit) $A L)$.

Another tight draughting rift was pushed down for 5 m at about 45 degrees into the rift proper. Way on looks to be an $8-10 \mathrm{~m}$ pitch to a floor. There are loose rocks and oose bits on the walls - not nice!

Five trips were made to the hole in October 2017. The end of the big passage was pushed to a draughting slot in the roof which was investigated for possible capping and into a bedding plane to meet a passage choked at both ends. One end was
eventually passed to a shaft and a small well decorated continuation beyond it. Both shaft and passage were draughting but no ladder was available so further exploration has been left for the next visit. The tight, draughting rift was descended with further work required

Work in July 2018 involved going "to the
end. Capped top of pitch at RH crawl leads end. Capped top of pitch at RH crawl leads
to a p10 and a $10-15 \mathrm{~m}$ high gallery. Holes in
the floor not descended. Offset chambers on the floor not descended. Offset chambers on left. Possible continuation at roof level Latham) Sketch of this extension.

Six trips were undertaken in September / October 2018. The edited logbook entries follow:

Saturday 29th September 2018
The narrow rift and pitch (see previous reports) was descended to check all possibilities and survey the big passage. Back under the entry rift, where the passage roof steps down, it is possible to crawl for 3 to 4 metres to draughting low continuation that would require digging.
At the other end of the large passage, under At the other end of the large passage, undel
the climb down below the ladder pitch, the low level way on was entered feet first to find that it became hopelessly low after 2 metres. No draught to encourage thoughts of digging although the air seemed fresh. of digging although the air seemed fres
At the bottom of ladder level, the main At the bottom of ladder level, the main passage continuation as a narrow rift was entered by crawling past a larow block but ended after a few metres at a vertical wall of debris.
In the passage which heads to the left from the junction situated a few metres beyond the narrow rift. Some sections were opened up to make it easier to traverse.

Thursday 4th October
Mob handed trip to the end of 4474. The team headed into the section entered from the right hand corner of the end of the big passage. By standing on shoulders it was possible to get past the slab blocking the climb up the steep sand slope but there was no open passage at the top. Below the climb a way was found through some interesting a way was found through some interesting bourd to a lower level that consisted of large passage/chamber sloping down to a but with a draught Partway up (or down) but with a draught. Partway up (or down) the chamber there was a draughting low way on over dried mud and sand. This was attacked to the point where it appeared that a couple more metres would reach an enlargement. Another look at the capped and dug continuation of the main passage (in the strongly draughting roof slot) revealed the floor seeming to drop steeply just a short distance ahead.

Friday 5th
At the slot, attacking the left wall with a hammer created another foothold befor going forward under the slot to look at digging at the lower level. Thge slot was further dug and capped whilst the debri was cleared back to the open passage. By bail-out time there was a mixture of nasty bail-out time there was a mixture of na.
looking broken roof to the left, with an looking broken roof to the left, with an
upward slot full of loose stuff. However, to upward slot full of loose stuff. Howev
the right side there was an strongly the right side there was an stro be focus of
draughting space that would be the for draughting
the next visit

Monday 8th
The dig under the slot continued whilst the low passage opening up 4 days before wa low passage opening up 4 days before
also attacked. The spade here worked a treat and after a while the enlargement was reached. Unfortunately 4 m further on the fill once more sloped up towards the roof leaving a very low and narrow continuation that would be a very awkward digging site. Substantial progress was made at the under the slot, although a large flak preferred to drop onto Alf's helmet rather than stay on the wall. The offending item
was photographed and the cave vacated.

Wednesday 10th
Back below the slot, a large quantity of spoil was moved out into the main passage. The open overhead slot was passed and there appeared to be a way on over a large slab but first some gardening of the top of the near vertical spoil slope was required. Then all up and onwards through a few metres of low passage, into a chaos of boulders an out into the upper section of a large, partially collapse-filled passage. The roof had moved up a bed and was several metres higher than the roof level in the previous large piece of passage. Forward the boulders climbed to the roof, whilst to the right routes downward led only to small sand choked rifts and passages, probably situated above the high level section of the right hand branch large chamber. Also on the right there was a number of cracked flows attesting to the age of the passage. Despite a good look round, the draught was so dissipated that no way on could be found hence the name of Bother Chamber

MATIENZO UNDERGROUND site descriptions (printed 19/02/2024) Volume 6 - page 118

## Friday 12th

 Adjacent to and below a van sized boulder 'ok' there was a small (maybe 1.5 m high) 'ok' there was a small (maybe 1.5 m high) boulder jammed in a slot with a draught coming out from under it through some observe space and a wall some metres back observe space and a wall some metres back More digging is required to gain access the continuation. As a result of this the chamber name changed to Bother Squared Chamber. Some more photos were taken, then the cave was left, the 1st pitch ladder being removed en route.Survey data has been extracted from a Word document and is now the 3d file (August 2018). The surveying and photography undertaken in October 2018 is not yet here.

Further pushing took place at Easter 2019 A climb up into a chamber was choked with boulders, named as the Big Red Ballroom and surveyed as batch 19-01 (length and surveyed as batch 19-01 (length
$=30 \mathrm{~m}$ ). A small rift was descended into The $=30 \mathrm{~m})$. A small rift was descended into The
Travelator giving 32 m of passage in batch $19-02$. Twenty five metres of narrow rift wa 19-02. Twenty five metres of nand named Snotty Nose Passage and surveyed as batch 19-03. The Easter 2019 Survex file link below contains all current survey batches. Easter 2019 log book descriptions of the work can be seen through the Logbook Search facility

In June 2019, an unsuccessful attempt was made to enter the awkward passage leading out from the current final chamber and no other possibility for continuation was found. The calcite blockage in the low passage leading out of the aven (see April passage leading out of the aven (see April report) was eventually removed, then the adjacent floor attacked and lowered with a mini-mattock thus allowing movement past that location. More work is required.

A comprehensive site description with drawn up survey is now required!

References: anon., 2016c (summer logbook); anon., 2016d (autumn logbook); anon., 2017b (Easter logbook); anon., 2017d (autumn logbook);
anon., 2018c (summer logbook); anon., 2018d anon., 2018c (summer logbook); anon., 2018d
(autumn logbook); anon., 2019b (Easter logbook); (autumn logbook); anon., 201 Entrance pictures : summer 2016 Underground pictures : autumn 2016 : Easter 2017 : autumn 2017 : summer 2018 : Easter 2019 Video:
Detailed survey : In hand? : Sketch of summer 2018 extension Line Survey : On area survey :
Survex file : 2018

4475: cave
Moncobe 30T 4454544798174 (Datum: ETRS89, Accuracy code: A) Altitude 135 m Length 4m

This is an undercut through a cliff corner bulge situated between sites 3030 and 3031. Dimensions are rm long $\times 1 \mathrm{~m}$ wide by 0.6 m high. It has the same grid reference as sites 3029, 3030 and 3031.


A small descending, tight rift.
References: anon., 2016c (summer logbook)
Video :
Detailed survey
Line Survey :
On area survey
Survex file

4479: dig
Cubillas 30T 452922 4796289 (Datum: ETRS89 Cubilias Accuracy code: G) Altitude 335 m Area position

What, from a distance, looks like a large choked cave appears, on closer inspection choked cave appears, on closer inspection,
to be rock covered in some flowstone below to be rock cov
a fault / joint.

References: anon., 2016c (summer logbook) Entrance pictures : August 2016

4483: dig

## Update

A draughting hole in steep banking, 5 m above the track. At Easter 2017, the entrance was enlarged but is thought not to warrant extra work. Another team inspected the hole in October that year and agreed.

References: anon., 2016d (autumn logbook); anon., 2017b (Easter logbook); anon., 2017d (autumn logbook) Underground pictures : 2017 Video :
Detailed survey Line Survey Survex file :

## X

4484: dig
Cobadal 30T 447902 4799184 (Datum: ETRS89 Cobadal 30T 4479024799184 (Da
Accuracy code: G) Altitude 290 m Length 6 m Depth 6 m Area position

A small depression against rock outcrop with a slightly draughting hole at the base which had stones falling a further 1 m . This was dug out to a depth of 6 m but major work is dug out to a depth of 6 m but majc
needed to make further progress.

References: anon., 2016d (autumn logbook) Entrance pictures :

## Video:

Detailed surve
Line Survey: Line Survey On area sury
Survex file :

4485: dig
Cobadal 30T 4478654799153 (Datum: ETRS89. Accuracy code: G) Altitude 285 m Length 2 m D
Area position

A small hole on the side of a large
depression which was excavated to 2 m
depression which was excavated to 2 m
depth where a very narrow passage leads off.
References: anon., 2016d (autumn logbook) Entrance pictures : autumn 2016 Underground pictures Video:

```
Detailed
Line Survey:
```

On area surve
Survex file :
x

4486: Verde, Cueva la
La Cavada 30T 4444594798657 (Datum: ETRS89. Accuracy code: A) Altitude 116 m
Length 1750 m Height 31 r
Area position: A Google search for this site (Cueva

Updated 27th June 2022
A well known cave in the Riotuerto district which was explored and surveyed by the Speleo Club Cántabro in 2009. The entrance lies uphill of the La Riega resurgence. (In the autumn 2016, the resurgence was the scene of a successful water trace from a Moncobe hole (5182) being explored by the GE Pistruellos.)
The centre line reconstruction below gives a survey length of less than 1 km .

## References:

Entrance pictures



Detailed survey : SCC survey
Line Survey
On area survey :
Survex file : Reconstructed from the SCC survey

X
4487: resurgence
Arronte 30T 4437604799001 (Datum: ETRS89. Accuracy code: G) Altitude 76 m Area position

Updated 15th May 2020
A resurgence at a concrete trough. This was checked with OBA detectors in the autumn 2016 when OBA was put into a stream in a 2016 when OBA was put into a stream ir
Moncobe site being explored by the GE Moncobe site being explored by the GE
Pistruellos. (The water was traced to La Pistruellos. (The water was traced to La
Riega). Riega).

References: anon., 2016d (autumn logbook); anon., 2020c (Spring, summer logbook)
Entrance pictures:
Underground pictures

```
Video:
```

Detailed survey
Line Survey On area survey Survex file :

## X

4488: resurgence San Antonio 30T 4454384800187 (Datum: ETRS89. Accl
Area position

A small, unexplored (and uninviting) resurgence cave.

References: anon., 2016d (autumn logbook) Entrance picture : autumn 2016 Entrance picture : autu
Underground pictures : Video :
Detailed survey Line Survey On area surv Survex file

## 4489: shaf

Navajeda 30T 4444584800925 (Datum: ETRS89 Accuracy code: G) Altitude 142 m
Length 10 m Depth 10 m
Area position
Updated 18th November 2017
A 10 m deep shaft to a cone of debris and rotting animals. The strong stench stopped any further exploration in 2016 but, in October 2017, 3m of descending passage was entered with a slight draught which needs digging. References: anon., 2016d (autumn logbook);
anon., 2017d (autumn logbook); anon., 2022d (autumn logbook
Entrance picture : autumn 2016
Underground pictures
Video :
Detailed survey
Line Survey
On area sur
Survex file

X
4490: shaf
Navajeda 30T 4442884800697 (Datum: ETRS89 Accuracy code: G) Altitude 143m
Length 15 m Depth 10 m
Area position
Updated 10th November 2021
A fenced shaft covered with dense brambles. This is a 3 m pitch to a boulder with a further climb down a slope to a mudfloored blockage. At the boulder area, a narrow rift appears to close down.
In the wall, part way down the shaft, a dig over 3 days in September 2021 revealed a 7 m pitch in a roomy shaft to a stand-up 4 m $\times 2 \mathrm{~m}$ chamber. There are good formations but no way on.

References: anon., 2016d (autumn logbook); anon., 2021d (autumn logbook)
Entrance picture : autumn 2016 Entrance picture : autumn 2016
Underground pictures : autumn 202 Underg
Video :
Video
Detailed surv
Line Survey
On area surv
Survex file:

4492: dig
Arredondo 30T 4508434792720 (Datum: ETRS89 Arredondo 30T 4508434792720
Accuracy code: G) Altitude 365 m Accuracy code
Area position

A draughting, bouldery dig in the Hoyo Rotura.

References: anon., 2016d (autumn logbook) Entrance picture

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Two undescended holes partly covered by
the farmer.
```

References: anon., 2016d (autumn logbook)
Entrance picture
Underground pictures
Video:
Detailed surve
Line Survey
On area survey
Survex file
X
4494: shaft
Navajeda 30T 4442574800690 (Datum: ETRS89.
Navajeda 30T 4442574800690 (D
Accuracy code: G) Altitude 133m
Length 8 m Depth 8 m
Area position
A fenced shaft covered with brambles. A 6 m
A enced shats on old bones, with a passage
descent lands on old bones, with a passage
off to a small, well decorated chamber. A
window through stal leads to water filled
passage, approx 1 m deep. A further window
through more stal. appears to end
References: anon., 2016d (autumn logbook)
References: anon.,
Entrance picture:
Entrance picture :
Underground pictures
Video :
Detailed survey
Detailed sur
Line Survey
On area survey :
Survex file :
X
4495: cave
Navajeda 30T 4443514800758 (Datum: ETRS89.
Accuracy code: G) Altitude 153 m
Accuracy code: G) Alt
Length 5 m Depth 4 m
Length 5 m D
Area position

Updated 10th November 2021
This was not excavated when first noted, as it would have created a stock hazard in the farmer's field. However, when seen again at the end of September, 2021, the site had collapsed. A descent at $45^{\circ}$ enters a small choked chamber. The site has been made stock proof.

References: anon., 2016d (autumn logbook);
anon., 2021d (autumn logbook) References: anon., 2016d (autu
anon., 2021d (autumn logbook) Entrance picture Underground pictures Video: Detailed surve On area surve Survex file

X
4496: hole
Navajeda 30T 4443434800852 (Datum: ETRS89. Navajeda 30T 4443434800852 ([
Accuracy code: G) Altitude 140 m
Area position

This site has not been excavated, as it would create a stock hazard in the farmer's field.

References: anon., 2016d (autumn logbook) References: anon
Entrance picture Underground pictures Video:

```
Detailed surve
```

Line Survey
On area surve
Survex file :
x

4497: shaft La Secada
Area position
GPS position in hand. A small shaft that wa the scene of a dog rescue in November the scene of a dog rescue in November
2016. It was then approached via the track 2016. It was then approached via the track
flanking Muela in Llueva valley and is in the flanking Muela in Llueva
region of site 1023-4-5.

```
References: anon., 2016d (autumn logbook)
References: anon.,
Entrance picture:
Video :
Detailed survey
Line Survey
On area survey
Survex file :
x
4498: resurgence
Hoznayo 30T 442405 4804445 (Datum: ETRS89.
Accuracy code:M) Altitude 42m
Area position
```

Updated 14th January 2018
The 1200 mm culvert outlet is found on the north side of the motorway at 30T 04424044804481 , altitude about 39m. A crawl into the tube passes under the motorway to a rock face with water welling up from it's base, a $50 / 75 \mathrm{~mm}$ wide rift which could be peered along for at least 3 m , and a roof that appeared to be shuttering ply. It is presumed there is a concrete slab bove.
MATIENZO UNDERGROUND - site descripitions (printed 19/02/2024
Volume 6 - page 123

References: anon., 2016d (autumn logbook)
Entrance pictures : November 2016 Entrance pictures : November 2016
Underground pictures : November 2016 Unders
Video Detailed survey Line Survey : One Survey
On area surv
Survex file : On area sur
Survex file :

## 4499: dig

## Alisas 30T 4480304793526 (Datum: ETRS89

 Accuracy code: G) Altitude 755 m Depth 4 m Area positionOn the yellow-marked track: a small hole that, after a meter, seems to meet a shaft with a narrow top where stones fall some $4 \mathrm{~m}+$. It needs capping or snappers to open up.

References: anon., 2016d (autumn logbook)
References: anon., 2016d (autur
Entrance picture : autumn 2016 Entrance picture : autun
Underground pictures : Underg
Video :
Detailed survey Line Survey On area surve Survex file

4500: sin
Alisas 30T 447700 4794018 (Datum: ETRS89 Alisas 30T 4477004794018 (Datur
Accuracy code: G) Altitude 597 m Accuracy code: G) Altitude 597 m
Area position Area positio

A small sink below Alisas in a small valley. No open hole seen but it could be worth a dig.

References: anon., 2016d (autumn logbook) Entrance picture : autumn 2016 Entrance picture : autu Video : Detailed survey Line Survey On area sur
Survex file

4501: resurgence Hoznayo 30T 4425714804431 (Datum: ETRS89. Accuracy code: M) Altitude 41 m Area position

Updated 14th January 2018
A small stream next to the motorway runs through its own culvert. The source bubbles up into a small pool, about 10 metres inside the woodland fence. It would need to be dry to check for any (unlikely) potential.

References: anon., 2016d (autumn logbook) Entrance picture : November 2016 Video : spring (YouTube) Detailed survey : Line Survey : On area survey Survex file

4502: shaf
La Rasa 30T 4487324793742 (Datum: ETRS89 Accuracy code: G) Altitude 614 m Reñada (4221). A slither down to a small chamber with a tiny route out on the left.
References: anon., 2017b (Easter logbook)
Entrance pictures : Easter 2017
Underground pictures
Undergr
Video
Detailed survey
Line Survey
On area surve
Survex fil
X
4506: cave
S Vega 30T 4503594795553 (Datum: ETRS89.

| Accuracy code: G) Altitude 182 m |
| :--- |

Length 28 m Depth 2 m
Area position

A excavated entrance into a draughting cave that becomes too tight over the Reñada entrance passage.

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References: anon., 2017b (Easter logbook)
Underground pictures : Easter 2017
Video:
Detailed survey : pdf file
Detailed surve
Line Survey :
Survex file : yes
X
4507: shaft
La Secada 30T 452946 4798005 (Datum: ETRS89.
```

Accuracy code: G) Altitude 180m
Length 2 m Depth 2 m
Length 2 m Dea position

A small rift just into the trees off the "Mushroom Field" which is choked 2 m down

```
References: anon., 2017b (Easter logbook)
References: anon., 2017b (Easte
Entrance pictures : April
Video:
Detailed survey
Detailed sur
On area survey :
Survex file :
X
4508: shaft
S Vega 30T 4509614794872 (Datum: ETRS89.
Accuracy code: G) Altitude 458m
Area position
A fenced shaft that is a "few metres deep".
Unexplored.
```

```
References: anon.,
Entrance pictures: 2017b (Easter logbook)
Entrance pictures:
```

Underground pictur
Video:
Detailed survey :
Detailed surve
Line Survey
Line Survey:
Survex file :
x
4509: shaft
S Vega 30T 4510894794909 (Datum: ETRS89.
S Vega 30T 4510894794909 (Dati
Accuracy code: G) Altitude 462 m
Area position

An unexplored fenced shaft which is "not very deep".

```
References: anon., 2017b (Easter logbook)
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References: anon.,
Entrance pictures
Entrance pictures:
Underg
Video:
Detailed survey :
Line Survey :
Line Survey :
On area survey :
On area surve
Survex file
x
4510: shaft
S Vega 30T 4510614794923 (Datum: ETRS89.
S Vega 30T 451061 4794923 (Dat
Accuracy code: G) Altitude 467 m
Accuracy code
Area position

An unexplored fenced shaft which is "not very deep".

References: anon., 2017b (Easter logbook)
Entrance pictures: Entrance pictures:
Underground pictures Underground pictur Video : Detailed surve Line Survey: On area survey Survex file
X

4511: cave Las Calzadillas 30T 4483304794971 (Datum: MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
Volume 6- page 125

ETRS89. Accuracy code: G) Altitude 404m
Area position Area position A 5 m long, $45^{\circ}$ slope down to a draughting boulder choke that requires snappers.
References: anon., 2017b (Easter logbook) References: anon., 2017b (Eas
Entrance pictures : April 2017 Entrance pictures: Apr
Underground pictures Video :
Detailed survey : sketch Line Survey : On area survey Survex file

## 4512: cave

EI Naso 30T 451032 4796881 (Datum: ETRS89 El Naso 30T 4510324796881 (Dat Accuracy code
Area position

A depression full of brambles. At the base, a steep, loose slope goes down below boulders. Only partially descended.

References: anon., 2017b (Easter logbook) Entrance pictures Underground pictures
Video:
Detailed sur
Line Survey Line Survey On area sur
Survex file after 2 m , the right chokes after 3 m .

4514: hole

A deep, brambly hole which was checked out in January 2022 to find a 1.5 m deep brambly hole.

References: anon., 2017b (Easter logbook); anon., 2022a (January, February logbook)

4515: shaft
Riaño 30 T 4517614799516 (Datum: ETRS89. Accuracy code: G) Altitude 235 m Length 10 m Depth 7 m

## Area position

An open shaft probably on a fault with one end packed with blocks. A handline clim down to about -7 m reaches a possible dig under a wall of boulders and sediment. There is no draught.

References: anon., 2017b (Easter logbook) Entrance pictures : April 2017 Underground pictures: Video
Detailed survey : sketch Line Survey
On area sur
Survex file :

4516: shafi

## Riaño 30T 45153 <br> Riaño 3014515394799413 (Datum: ETRS89

 Length 6 m De: G) Altitude 261 m Area positionA small fenced hole that drops about 5 m with boulders. There is no draught.

References: anon., 2017b (Easter logbook) Entrance pictures : April 2017

## 4517: Trackside Pot

Riaño 30T 4516774799298 (Datum: ETRS89 Accuracy code: G) Altitude 257 m Agth 20 m D th 17 m rea position

## Jpdated 4th October 2017

A hole off the uphill side of the track which drops down a couple of metres to the head a 15 m pitch. The over-tight top section was snappered out in July 2017 with the shaft petering out in a very narrow rift.

References: anon., 2017b (Easter logbook); anon. References: anon., 201 Entrance pictures: April 2017 Underground pictures Video : April 2017 (YouTube) Detailed surve Line Survey On area surve
Survex file :

X
4518: caves
Riaño 30T 4519154799433 (Datum: ETRS89 Accuracy code: G) Altitude 240 m Area position

A set of tiny holes in a small scar. The grid A set of tiny holes in a small scar. The grid blocking a possible way in.

References: anon., 2017b (Easter logbook) Entrance pictures : April 2017 nderground pictures Video : Detailed surve Line Survey On area survey Survex file
x
4519: cave
S Vega 30T 4507584794971 (Datum: ETRS89 Accuracy code: G) Altitude 395 m Length 20 m

This site is at the south side of the depression (with an oak? tree) below a smal rag. (It has the same grid reference as site 1337). A low bedding plane that was excavated to a $4 \times 5 \mathrm{~m}$ chamber (Gollum's Lair). A low, mud-floored bedding goes off here at $110^{\circ}$ and has been disto'd for 13 m . A spade is required for digging out. There is an unconvincing intermittent draught.

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References: anon., 2017b (Easter logbook)
```

References: anon., 2017b (Eas
Entrance pictures : April 2017
Underground pictures: April 2017
Video:
Video :
Line Survey
On area survey
On area sur
X

4520: Root Tube Cave Seldesuto 30T 4482324794712 (Datum: ETRS89. Seldesuto 30T 4482324794712 (D)
Accuracy code: G) Altitude 396 m Length 12 m Area position

## Updated 19th September 2021

A tube above the resurgence, site 1310 which is being excavated as a fairly easy dig with a faint draught.

References: anon., 2017b (Easter logbook); anon. 021c (summer logbook)
ntrance picture : autumn 2020
Underground picture : autumn 2020
Detailed survey : sketch, Peter Eagan Line Survey On area surve Survex file
x
4521: dig
Seldesuto 30T 4482604794623 (Datum: ETRS89. Accuracy code: G) Altitude 380 m
Length 2 m
A 2 m long gap under boulders where rocks appear to rattle away. Does not look promising

References: anon., 2017b (Easter logbook); anon. 2021 a (January, February logbook) Entrance pictures :
Underground pictures Video: Detailed surve Line Survey: Survex file :

```
\begin{array} { l } { \text { Length 3r} } \\ { \text { Area posit} } \end{array}
```

A draughtless, 3 m descending slot, 1.5 m wide, 15 cm high under an overhanging rock face on the south side of a shallow depression.

References: anon., 2017b (Easter logbook)
Entrance pictures : April 2017 Entrance pictures: April 201
Underground pictures:
Video:
Video:
Detailed survey
Line Surve
On area survey
Survex file
x
4523: shaft
Moncobe Grid reference to come
Depth 2 m
Area position
Updated 14th January 2018

A draughtless, unexplored, 2 m shaft at the base of a cliff.

References: anon., 2017b (Easter logbook) Entrance pictures : April 2017 Underground pictures: Video: Detailed survey Line Survey
On area sur On area surv
Survex file :

4524: shaft
Moncobe 30T 4461434796435 (Datum: ETRS89. Accuracy code: G) Altitude 256 m Length 2 m Depth 2 m Area position

A $2 m$ blind shaft below site 4526 .
References: anon., 2017b (Easter logbook) References: anon., 2017b (East
Entrance pictures : April 2017 Underground pictures:
Video :
Detailed survey Line Survey On area survey Survex file

4525: shaft
Moncobe 30T 4461814796438 (Datum: ETRS89. Accuracy code: G) Altitude 256 m Length 75 m Depth 21 m Area positior

Updated 3rd, 15th January 2018; 25th July 30th December 2019

This was found as small draughting hole which was opened up to reveal a possible shaft with a "bulge" preventing entry. This was bypassed by breaking through the far wall into a small, sloping chamber with a hole at the bottom apparently leading into a hole at the bottom apparently leading into a
shaft. The hole proved awful for capping but shaft. The hole proved awful for capping but eventually was made large enough f ladder access onto a shaft. Some possibilities closed down but a rift with the draught was accessed with a hammer. This was pushed to a small chamber with the draught coming upwards through a narrow rift which requires caps.
While the hole was being surveyed, another shaft was opened up.

The area was investigated in October 2017. "Alf's" shaft was a free climb into a reasonable passage which ran under "Phil's" shaft, giving maybe a further 30 m length, in total. The passage got to a split with the left hand branch effectively ending at an outward draughting small downward tube. The right hand branch dropped steeply to a large calcited ?plug? in the floor with a draught forcing its way up between wall and calcite.

In June 2019, the horizontal plug was attacked with hammer and chisel eventually opening up a large enough gap for access. A drop of 2 m was followed by a downward drop of 2 m was followed by a downward sloping 3 m of passage, with the roof of calcite gradually lowering to leave the end flat-out low with a small hole onward. The draught is encouraging but continuing would be a right pain. Progress might be made using a chisel action hammer drill. [P Parker]

Some surveying was also carried out in June 2019 but the notes may be a "bit of a mess". (The length and depth above are an estimate.)

References: anon., 2017b (Easter logbook); anon. 2017d (au
Entrance pictures : April 2017 Underground pictures: April 2017 Video
Detailed survey
MATIENZO UNDERGROUND site descripioions (printed 19/02/2024) Volume 6 - page 128

Line Survey
On area sury Survex file :
x
4526: shaft
Moncobe 30T 4461474796434 (Datum: ETRS89. Accuracy code: G) Altitude 257 m
Depth 4 m Depth 4n Area position

Updated 15th January 2018
A 4 m deep, unexplored, but probably blind shaft above the tree line.

References: anon., 2017b (Easter logbook) References: anon., 2017b (Eas
Entrance picture : April 2017 Underground pictures Video:
 Line Survey On area surve
Survex file :

X
4527: hole
Moncobe 30T 4462094796516 (Datum: ETRS89. Accuracy code: G) Altitude 218 m Area position

A small draughting hole on the true left bank, 5 m above the stream bed.

References: anon., 2017b (Easter logbook)
Entrance pictures: Entrance pictures Underground pictures Video :
 Line Survey On area surve Survex file :
x
4528: cave
Moncobe 30T 4462214796486 (Datum: ETRS89. Accuracy code: M) Altitude 232 m Length 1 m Area position
This site is up on the opposite bank to site $4527,10-15 \mathrm{~m}$ up the slope. The grid reference is a guess. A 1 m crawl reaches a
tight bend to the right.

References: anon., 2017b (Easter logbook) Entrance pictures Underground pictures Video:
 Line Survey On area sury
Survex file :
x
4529: cave
Moncobe 30T 4461054796405 (Datum: ETRS89. Accuracy code: G) Altitude 267 m
Length 10 m
Area position
Updated 15th January 2018
Ten metres of walking-size passage to a diggable crawl with a possible slight draught.

References: anon., 2017b (Easter logbook) Entrance pictures : April 2017 Vnderg
Video Detailed surve
Line Survey : On area surve Survex file :

X
4530: dig
Moncobe 30T 446244 4796391 (Datum: ETRS89. Accuracy code: A) Altitude 258 m Depth 3m

The grid reference is a few metres from the The grid reference is a few metres from the
hole. This is a small hole in the southern hole. This is a small hole in the southern
shakehole of a double. Pebbles go down for shakehole of a double. Pebbles go down
about $3 m$ and there is a slight draught.

```
References: anon., 2017b (Easter logbook)
References: anon., 201 
Undergro
Video:
Line Survey:
Survex file:
x
4531: collapse
Moncobe 30T 4462644796355 (Datum: ETRS89. Accuracy code: G) Altitude 253 m Depth 2m Area position
A small collapse in an open, sloping field which is about 1.5 m deep. It could possibly be site 3654 .
```

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 $\begin{gathered}\text { Volume } 6 \text { - page 12 }\end{gathered}$

$$
\begin{aligned}
& \text { References: anon., } 20 \\
& \text { Entrance pictures: } \\
& \text { Underground picture }
\end{aligned}
$$

## 4533: shaf

Moncobe 30T 4461564796414 (Datum: ETRS89. Accuracy code: G) Altitude 269 m Length 7 m Depth 7 m Area position

A 4.5 m shaft with a 2.5 m climb down into a chamber with a slight draught.

References: anon., 2017b (Easter logbook)
Entrance pictures: Underground pictures

A slot drops into nice-sized passage heading in two directions. A slope down to the eas meets a choke after 11 m . The WNW direction passes a low dig and reaches a choke after 12 m . The dig has a possible draught and may be worth continuing.

References: anon., 2017b (Easter logbook); anon. 2023e (Christmas logbook); anon., 2024a (January, February logbook Entrance pictures : April 2017, December 2023 Under
2023
x
4535: Badger Hole
Area positio
A 4m long cave remnant
References: anon., 2017b (Easter logbook)
Entrance pictures : April 201
Entrance pictures: Apri
Video
Detailed survey
Line Survey
On area survey
Survex file : yes
4536: SubPhone entrance
Riaño 30T 4516664800704 (Datum: ETRS8
Accuracy code: G) Altitude 171 m
Length included in the Four Valleys System. (See
Cueva Hoyuca) Depth 7m into Cueva-Cubío del
Llanío, site 323
Area position
Updated 19th February 2018; 12th May, 1st July 2018; 17th May, 19th September 2019. July 2018; 17th May, 19th September 2
19th September 2021; 22nd May 2023

Cueva-Cubío del Llanío was linked into the Four Valleys System on 31st July 2019 and Four Valleys System on 31st July 2019 and
with Fridge Door Cave on April 5th, 2023. All with Fridge Door Cave on April Sth, 2023
caves which are part of the Four Valleys System are listed at the start of the Cueva Hoyuca description.

Upper Mitre Passage in Cueva-Cubío del
Llanío (site 3234 ) and exploring through Sandy Chamber and Side Road up to smalle passages with tree roots and some draught, it appeared that Llanío was heading for the surface. The survey indicated a densely surface. The survey indicated a densely road and the subsequent use of Ron Taylor's sub-phone equipment confirmed that station sub-phone equipment confirmed that statio $3234-17-03.106$ in Llanio was a very
number of metres below the surface. Hammering on the road was distinctly heard Hammering on the road was distinctly heard in Under Road Chamber and, again, the sut phones were used to confirm that station 17-03.97 was under the tarmac. It would appear that the Llanío survey, carried out with a mixture of old and new technology, has been accurate to a couple of metres in all three dimensions.

A second entrance was deemed necessary as the route to this area was tight and awkward in places. A new entrance here could cut 3 hours off a trip and allow fresher cavers to push at the end of Mulu Manners to a possible link with Cueva de Riaño (site 0105) - achieved in July 2019.

The area was cleared of thick undergrowth and, after a false start, an area of rocks and clay investigated to a shallow limestone clay investigated to a shallow limestone palley sloping down on the same line as t passage below. By the end of the Ea
"season", a 2 m deep hole had been season", a 2 m deep hole had been excavated mainly through clay with tree
routes and the occasional lump of sandstone routes and the occasional tump of sandston with an encouraging drill through the c
suggesting an open space about 60 cm suggesting an open space about 60 cm
below. Although there was no guarantee below. Although there was no guarantee
that this excavation would provide a second that this excavation would provide a second
entrance, the number of joints underground entrance, the number of joints undergrounc
with roots and draught in places suggested with roots and draught in places sugges
that another route in would start in this area
See also Cueva Shelob, site 4173 .
Over the summer 2017, the dig progressed down to where a draughting hole was revealed and, eventually, a tight drop
onto station $3234-17-03.106$ in Llanío. In onto station 3234-17-03.106 in Llanio. I all, it took fifteen trips to complete the road drain lining and the bottom drop to accommodate larger cavers; concreting around the top and installing a lid. The photos and a video give a flavour of the photos
When the entrance was used in January
February 2018, water from the road February 2018, water from the road
drainage system was entering the shaft, making for unpleasant muddy conditions at the base Some surface diversions carried e base. Some surface diversions carried out allowed the draughting crawl at the base of the climb to dry out.
A route to the cave through dense vegetation was cleared in July 2021 although no trips were carried out that summer. Similarly, in early April 2023, the route was cleared but all the action was in through the old entrance where most was directed at linking the cave with Fridge Door Cave References: anon., 2017b (Easter logbook); anon.,
2017c (summer logbook); ; anon., 2019b (Easter
logbook); anon., 2019d (summer logbook); anon., 0gbook) ogbook)
Entrance pictures : April 2017 : July/Augut 2017 Entrance pictures : April 2017 : July/August 2017
: Infrared photos : Redder family trip Easter 2019 : : Infrared pho
summer 2019
Underground pictures
Video : April 2017 work : Summer 2017 - From dig to entrance: Summer 2017 - explorations through SubPhone Entrance (YouTube):
entrance, April 2018 (YouTube) entrance, April 2018 (YouTube)
30tha-Cuvio del Llanío linked to Cueva de Riaño,
Detailed survey : see Cueva-Cubío del Llanío
survey
on area surv
Passage direction rose diagram: 1/7/2018

## 4537: Cueva Collada (entrada 2)

 ((Eastwater entrance))La Gatuna 30T 4497394798824 (Datum: ETRS89.
Accuracy code: A) Altitude 193 m Length included in site 394, Cueva Collada Depth ${ }_{\text {Area }}^{52 \mathrm{~m}}$

Updated 6th October 2017
The Easterwater entrance was discovered while searching for the known entrance to Cueva Collada (site 394). By parking on the shorter although steeper walk-in results, rather than coming in along the bottom of La Gatuna. Any finds (with photos) made through the Eastwater Entrance will be documented in the Cueva Collada description

Follow the pylons down until the brambles eventally stop progress just before you start
going up the big hill again. A shake hole just MATIENZO UNDERGROUND - site descriptions (printed 19002/2024
to the right with just a few brambles
surrounding it contains the cave, best surrounding it contains the cave, best
accessed from the end. A cairn built in entrance (survey station 0) marks the cave. From entrance, a crawl leads off for a few metres before opening out again under a metres before opening out again under a daylight shaft. An easy but slippery climb down from here leads into a large passage, that soon chokes. The way on is an excavated iole ont done feet first a little . This is best done feet first. Be carefu though, as just to the right of where you emerge is a 6 m drop. The slot down wa nlarged in the summer 2017.
Once through the squeeze, start climbing down the drop. It is possible to descend to the bottom here but that is more of a pitch. Instead follow the obvious slanting traverse to the bottom of the chamber.

Turn $180^{\circ}$ and slide down through a hole between boulders into a small chamber. From here another 2 m drop leads down to yet another small chamber in boulders. The way on is through a short, flat out craw between boulders before a second short crawl leads into big passage again. Travel down the boulder slope and enter Cueva Collada at the "Drafting boulder choke" on the survey Description by Alex Ritchie

References: anon., 2017b (Easter logbook)
References: anon., 2017b (East
Entrance pictures : April 2017

A slope down for $2 m$ reaches a flat out $2 m$ or so (feet first) to a narrowing. A slight draught might encourage digging out the entrance slope to allow excavation along the low crawl.

References: anon., 2017b (Easter logbook)

Underground pictures
Video : stone rattle (You

4543: cave Camposdelante 30 T 4472654799379 (Datum: Camposdelante 30T 4472654799379 (DatL TRS89. Accuracy code: G) Altitude 331 m Length 3 m
Area position

A 3 m long, mud-floored cave ends in a very tight rift.

References: anon., 2017b (Easter logbook)
Entrance pictures: Entrance pictures : Underground pictures

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Video :
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Detailed surve
Line Survey
On area survey
On area sury
X

4544: shaft Camposdelante 30T 4471704799319 (Datum: ETRS89. Accuracy code: G) Altitude 336 m ength 3 m Depth 3 m Area position

Updated 5th June 2017
A double hole on open hillside which is difficult to find. The lower hole descends 3 m but will need digging.

References: anon., 2017b (Easter logbook) References: anon., 2017b (Eas
Entrance picture : Easter 2017 Underground pictures Video:

```
Detailed sur
```

Line Survey :
On area surve
Survex file :
X

4545: cave Camposdelante 30T 4472474799351 (Datum: ETRS89. Accuracy code: G) Altitude 336 m Area position

Updated 5th June 2017
A small open hole in a small shakehole descends on an earth slope. Needs digging.

References: anon., 2017b (Easter logbook)
Entrance pictures: Easter 2017 Entrance pictures : Easter 2017 Underground pictures Video : Detailed surve On area surve Survex file

X
4546: cave
Camposdelante 30 T 4472444799342 (Datum: ETRS89. Accuracy code: G) Altitude 336 m Length 5 m

## Area position

Updated 5th June 2017
A promising opening under a sandstone cap blocks completely after 5 m .

```
References: anon., 2017b (Easter logbook)
Underground pictures
Video :
Detailed survey
Line Survey
On area surv
X
4547: shaft
Camposdelante 30T 447228 4799341 (Datum:
Camposdelante 30T 4472284499341 (Dat
Depth 5m
Area position
Updated 5th June 2017
A 5m deep shaft which needs enlarging 2m down.
References: anon., 2017b (Easter logbook) Entrance pictures : Easter 2017 Video:
```

```
Detailed
```

Detailed
Line Survey :
On area surve
Survex file :
x
4548: diq
Camposdelante 30T 4471874799378 (Datum: ETRS89. Accuracy code: G) Altitude 278 m
Area position Area position
Updated 5th June 2017

```

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2022
Volume \(6-\) page 13

A small hole in the bottom of a shakehole will References: anon., 2017b (Easter logbook) References: anon., 2017b (Easte
Entrance picture : Easter 2017 Entrance picture : East \(\Theta\), Video :
Detailed survey Line Survey On area survey Survex file

\section*{4549: shaft}

Camposdelante 30T 4472284799297 (Datum ETRS89. Accuracy code: G) Altitude 334 m Length 20 m [
Area position

\section*{Updated 5th June 2017}

A 7 m shaft in the side of a depression drops to a floor then a climb down in good roc with calcite which blocks. At the base of the 7 m palchte which blocks. At the base of the 7 m pitch, to the right facing in, is a
which leads to a choked pitch of 8 m

References: anon., 2017b (Easter logbook)
Entrance picture : Faster 2017 Entrance picture : Easter 2017 Underground pictures
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Video:

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

\section*{4550: shaf}

Camposdelante 30T 4471284799164 (Datum ETRS89. Accuracy code: G) Altitude 282 m Length 7 m Depth 3 m Area position

Updated 27th May 2019
When first documented, this hole in the side of a forest track had a slight draught. A 2 m drop in a rift. A higher route along the rift is partially blocked by rocks and appears to go for 6 m .

References: anon., 2017b (Easter logbook); anon., 2019b (Easter logbook)
Entrance pictures : Easter 2017

\section*{4551: shaft}

Camposdelante 30 T 4470604799740 (Datum ETRS89. Accuracy code: G) Altitude 321 m Depth 2 m Area position

Updated 13th July 2017
A \(2 m\) deep hole to an earth floor. A slab needs removing.
```

References: anon., 2017b (Easte

```
Underground pictures
Video :
Detailed survey
Line Survey
On area survey
Survex file
4552: cave
Camposdelante 30T 4470674799733 (Datum
ETRS89. Accuracy code: G) Altitude 320 m
Length 2 m
Length 2 m
Area position
Updated 13th July 2017

A 2 m long cave heading west to a choke
References: anon., 2017b (Easter logbook)
Entrance pictures : Easter 2017
Underground pictures
Video :
Detailed survey
Line Survey
On area survey
Survex file

4553: shafi Camposdelante 30T 4471084799713 (Datum Camposdelante 30 T 4471084799713 (Dat
ETRS89. Accuracy code: G) Altitude 325 m Length 25 m Depth 21 m Area position

Updated 13th July 2017
A 21 m deep shaft with speleothems near the base requires digging.

References: anon., 2017b (Easter logbook) Entrance pictures : Easter 2017

Line Survey
On area sur
```

On area sur

```
x

4554: cave
Camposdelante 30T 04471234799704 (Datum: ETRS89. Accuracy code: G) Altitude 327 m Length 2 m
Area position

\section*{Area positio}

Updated 13th July 2017
A 1.5 m long cave to a blockage that requires digging.

References: anon., 2017b (Easter logbook) References: anon., 2017b (Easter
Entrance pictures: Easter 2017 Underground pictures Video: Detailed survey :
Line Survey : Line Survey On area surv
Survex file :

X
4555: shaft
Camposdelante 30T 4471674799682 (Datum: ength. Accuracy code: G) Altitude 329 m Area position

Updated 13th July 2017
A blocked 10 m deep shaft.
References: anon., 2017b (Easter logbook)
Entrance picture: Easter 2017 Entrance picture : Easter 2017 Video:
```

Detailed

$$
\begin{aligned}
& \text { Detailed surve } \\
& \text { Line Survey }
\end{aligned}
$$

```
On area surve
Survex file :

X
4556: cave Camposdelante 30 T 4472074799664 (Datum: ETRS89. Accuracy code: G) Altitude 329 m Length \(2 m\)
Area position

\section*{Updated 13th July 2017}
\[
\text { After } 1.5 \mathrm{~m} \text {, this cave becomes too tight. }
\]
```

References: anon., 2017b (Easter logbook)
References: anon., 2017b (Easter
Underground pictures

```
Undergro
Video:
Detailed survey
Detailed surve
Line Survey :
On area surve
Survex file :
x
4557: cave
Camposdelante 30T 4472204799662 (Datum:
ETRS89. Accuracy code: G) Altitude 330 m
Length 5 m
Area position

Updated 13th July 2017
The entrance ( 1.2 wide \(\times 1 \mathrm{~m}\) ) leads to a \(1.5 \mathrm{~m} \varnothing\) chamber with the route on too tight
```

References: anon., 2017b (Easter logbook)
Entrance pictures: East
Underg
Detailed survey
Line Survey:
On area survey
Survex file :
X
4558: shaft
Camposdelante 30T 447233 4799654 (Datum:
Camposdelante 30T 447233 4799654 (Datur
ETRS89. Accuracy code: G) Altitude 329m
Length 14m Depth 11m
Area position
Updated 13th July }201
A $1 \times 2 \mathrm{~m}$ entrance to a 5 m shaft that drops to a tight sideways squeeze to a 4 m pitch then a $2 m$ descent to a choked base.
References: anon., 2017b (Easter logbook)
Entrance pictures: Easter 2017 Underground pictures Video : Detailed survey On area surve Survex file :
X
4559: shaft
Camposdelante 30T 4472514799646 (Datum: ETRS89. Accuracy code: G) Altitude 329 m
Length 3 m Depth 3 m Length 3 m Depth 3 m Area position
The shaft drops 1.5 to a squeeze then another 1.5 m drop to a floor. The shaft continues but is too tight.
MATIENZO UNDERGROUND - site descriptions (printed 19002/2024
Volume $6-$ page 135

```

References: anor
Entrance picture a visible connection to site 4559?)

4561: shaft
Camposdelante 30T 4472654799644 (Datum ETRS89. Accuracy code: G) Altitude 331 m Area position

Updated 13th July 2017
A 2 m shaft which becomes too tight.
```

$$
\begin{array} { l } { \text { References: anon., 2017b (Easter logbook)} } \\ { \text { Entrance pictures: Easter 2017 } } \end{array}
$$

```
Entrance pictures : East
Video :
Video :
Detailed survey
Line Survey
Line Survey
On area sur
Survex file
x
4562: shaf
Camposdelante 30T 4472944799632 (Datum
ETRS89. Accuracy code: G) Altitude 330 m
Length 3 m Depth 3 m
Area position
Updated 13th July 2017
A choked 3 m deep shaft.
References: anon., 2017b (Easter logbook)
Entrance pictures : Easter 2017
Underground pictures :
Video:
Detailed survey
Line Survey
On area survey
Survex file

4563: shafi
Video
Detailed surv
Line Survey :
Line Survey
On area surv
Survex file

4564: shaft
Camposdelante 30T 4465364799956 (Datum ETRS89. Accuracy code: G) Altitude 275 m Length 5 m Depth 5 m Area position
A shaft that choked after a tight section
References: anon., 2017b (Easter logbook) Entrance pictures Underground pictures
Underground picture
Video :
Detaile
Detailed surve
Line Survey :
Line Survey
Survex file

\section*{4565: sink}

San Antonio 30T 4476924802070 (Datum. ETRS89. Accuracy code: G) Altitude 103m Area position

A stream sinks in a gravel bed.
References: anon., 2017b (Easter logbook) References: anon.,
Entrance pictures

Line Survey
On area sur Survex file :
x
4566: shaft
San Antonio 30T 4462804801509 (Datum ETRS89. Accuracy code: G) Altitude 59 m Length 8 m Depth 4 m Area position

Updated 5th June 2017
A 3.5 m drop to a \(2 \times 2 \mathrm{~m}\) chamber to a tight squeeze with a continuing rift.

References: anon., 2017b (Easter logbook) References: anon., 2017b (Easter
Entrance pictures: Easter 2017 Underground pictures Video:
 Line Survey On area surve
Survex file :

X
4567: shaft San Antonio 30T 4464494801347 (Datum: ETRS89. Accuracy code: A) Altitude 63 m
En Depth 3 m Depth 3 m
Area position

The GPS reading was taken on the track 10 m away. Behind a large rock is a small 3 m shaft which needs digging out.

References: anon., 2017b (Easter logbook)
Entrance picture : Easter 2017 Entrance picture : Easter 2017 Undergr
Video:
Detailed Detailed survey : Line Survey On area survey :
Survex file : Survex file :
x

4568: cave
San Antonio 30T 4462494801454 (Datum ETRS89. Accuracy code: G) Altitude 88 m Length 1 m
Area position

A 1 m long cave (passage 1 m high and 0.5 m wide) ends in a vertical silt wall.
```

References: anon., 2017b (Easter logbook)
Entrance pictures:
Underground pictures
Video :
Detailed survey
On area survey
Survex file :
x
4569: rift
San Antonio 30T 446200 4801457 (Datum:
ETRS89. Accuracy code: G) Altitude 91m
Length 10m
Area position
A 2m wide, 10m long rift ends in a choke.
References: anon., 2017b (Easter logbook)
Entrance pictures :
Underground pictures
Video:
Detailed survey
Line Survey
On area surve
X
4570: shaft
San Antonio 30T 446374 4801434 (Datum:
San Antonio 30T 4463744801434 (Datum
Length 4m Depth 4m
Area position
Updated 5th June 2017
A 2.5m descent ends at a boulder blockage
but continues 1.5m below with a draught
but
References: anon., 2017b (Easter logbook)
Entrance pictures: Easter 2017
Entrance pictures : Eas
Video:
Detailed survey
Detailed sur
On area survey,
On area sury
x
4571: shaft Length 3 m Depth 3 m

```

\section*{Area position}
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Updated 5th June 2017
A 3 m shaft choked with sediment fill.
References: anon., 2017b (Easter logbook) Entrance pictures : Easter 2017
Underground pictures : Underground pictures
draughts.
References: anon., 2017b (Easter logbook)
References: anon.,
Entrance pictures
Underground pictures
Video :
Video :
Detailed survey
Line Survey
On area survey
Survex file
4574: cave
Camposdelante 30 T 4472774799189 (Datum:
Camposdelante 30T 4472774799189 (Dat
ETRS89. Accuracy code: G) Altitude 332 m
ETRS89. Accuracy code: G
Length 10 m Depth 10 m
Length 10 m
Area position
Updated 18th November 2017; 27th May
2019

The entrance lies just below an indistinct forest track. After 3 m , a 2 m deep rift leads forest track. After 3 m , a 2 m deep rift leads
to a right hand bend to a boulder blockage to a right hand bend to a boulder blockage
which would require a major dig. There is a which would require a major dig. There is
very good draught and 4 m down from the very good draught and 4 m down from the entrance, in a small shakehole, is a narrow draughting slot. One session of digging was carried out in October 2017 but there was no draught on that occasion.
The slab stopping previous progress was removed in May 2019 to give a 7 m pitch into a rift. Rocks fall some distance down a slot in the floor near the start of the rift. The rift continues for approx 6 m , but access is stopped by 3 pinchpoints which need enlarging. There was a slight draught on that occasion.

References: anon., 2017b (Easter logbook); anon.,

Updated 5th June 2017
At the base of a small cliff, a body-shaped tube descends for 3 m becoming smaller. It would need digging to make further progress.

References: anon., 2017b (Easter logbook) References: anon., 2017b (Easter
Entrance picture : Easter 2017 Entrance picture : Easter
Underground pictures : Video:

```
Detailed surve\
```

Line Survey :
On area survey :
On area surve
Survex file :
X

4577: cave Camposdelante 30 T 4472674799379 (Datum: Camposdelante 30T 4472674799379 (Datl
ETRS89. Accuracy code: G) Altitude 332 m ETRS89. Accuracy code: G) Altitude 332 m
Length 1 m Area position
"Cave in hole, 1 m long choked, shaft choked - draughting"

References: anon., 2017b (Easter logbook) Entrance pictures: Underground pictures Video:
Detailed survey Letailed sur On area survey : Survex file :
x
4578: shaft
Camposdelante 30T 4472494799370 (Datum: ETRS89. Accuracy code: G) Altitude 332 m Length 3 m Depth 3 m Area position

A tight shaft with an obvious, draughting way on.

References: anon., 2017b (Easter logbook) Entrance pictures Underground pictures Video:
 Detailed sury Survex file :
x
4579: cave
Camposdelante 30T 4472314799345 (Datum: ETRS89. Accuracy code: G) Altitude 331 m Length 1 m
Area position

A 1 m long cave with no obvious way on..
References: anon., 2017b (Easter logbook) References: anon.,
Entrance pictures Underground pictures Video: Detailed survey
Line Survey. Line Survey On area survey Survex file :

X
4580: shaft Camposdelante 30 T 4472304799330 (Datum: Camposdelante 30T 4472304799330 (Dat ETRS89. Accuracy code:
Length 4 m Depth 4 m Length 4 m
Area position

A $4 m$ deep, draughting but choked, shaft.
References: anon., 2017b (Easter logbook) Entrance pictures Underground pictures Video: Detailed survey Line Survey On area surve Survex file ETRS89. Accuracy code: G) Altitude 339 m
Length 4 m Length 4 m

## Area position

A short cave with a tight entrance.

```
References: anon., 2017b (Easter logbook)
Entrance pictures
Underground pictures
Undergro
Video
Detailed survey
Line Survey
Survex file
x
4582: shaft
Camposdelante 30T 4472504799347 (Datum:
MATIENZO UNDERGROUND - site descripions (printed 19/02/2024

ETRS89. Accuracy code: G) Altitude 337 m
Length 2 m Depth 2 m Area position posin

A draughting, tight shaft.
References: anon., 2017b (Easter logbook) Entrance pictures
```

Underground picture

```
Video :
Detailed survey
Line Survey :
On area survey
Survex file
4583: cave
Hornedo 30T 4491694801648 (Datum: ETRS89.
Accuracy code: G) Altitude 93m
Accuracy cod
Length 4 m
Length 4 m
Area positio
Updated 18th November 2017
A mud-floored draughting dig pushed to a
A mud-floored draughting dig pushe
4 m length but considered not wortr
4m length
pursuing.
References: anon., 2017b (Easter logbook); anon.,
2017d (autumn logb
Entrance pictures
Underground pict
Video :
Detailed surv
Line Survey :
Line Survey:
On area sur
Survex file
4584: cave
Hornedo 30T 449178 4801624 (Datum: ETRS89.
Accuracy code: G) Altitude 92 m
Length 12 m Depth 2 m
Area position
Updated 18th November 2017
In a 1 m square entrance, a climb down of
2 m goes to a cross rift. A bedding plane and
2 m goes to a cross rift. A bedding pla
squeeze leads to a hading, ascending,
standing rift followed by a low crawl which
standing rift followed by a low crawl which
blocks. The site draughts inwards but is not
easy to dig.
Some water chemistry was carried out
here in October 2017.
A rift 5m above the entrance descends
1.5 and is blocked at both ends.
References: anon., 2017b (Easter logbook); anon.,
References: anon., 2017
2017d (autumn logbook)
Entrance pictures
Underground pictures
Video :
Detailed survey
Line Survey
On area survey
Survex file

4585: rift
Camposdelante 30T 4470344799243 (Datum: Camposdelante 30T 4470344799243 (Dat
ETRS89. Accuracy code: G) Altitude 278 m ETRS89. Accuracy code
Length 5 m Depth 2 m Area position

Updated 5th June 2017
A rift in the side of a shakehole is a 1.5 m climb to the floor which descends to a blockage. Back under the climb down, a low crawl blocks but may be diggable
References: anon., 2017b (Easter logbook)
Entrance pictures : Easter 2017
Underground pictures :
Video :
Video:
Video:
Detailed survey
Detailed surv
Line Survey :
On area survey
On area sur
Survex file

4586: cave
Camposdelante 30T 4472114799105 (Datum ETRS89. Accuracy code: G) Altitude 182 m Length 5 m Area positio

Updated 5th June 2017
A 5 m long, tight cave to a very narrow rift There is a good draught in.

References: anon., 2017b (Easter logbook) Entrance pictures : Easter 2017 Underground pictures
Video
Detailed survey
Line Survey
On area survey
Survex file

4587: shaf
Barrio de Arriba 30 T 4456974799379 (Datum Barrio de Arriba 30T 4456974799379 (Dz
ETRS89. Accuracy code: G) Altitude 175 m Length 2 m Area positior

MATIENZO UNDERGROUND site descripioions (printed 1902/2024) Volume 6 - page 140

An excavated shaft top to a totally choked 7 m pitch.

References: anon., 2017b (Easter logbook)
Entrance pictures : Underground pictures
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Video :
Video:

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

4589: cave
Barrio de Arriba 30T 4456014799358 (Datum: ETRS89. Accuracy code: G) Altitude 175 m Length 3m Area position

A 3 m long cave which becomes too narrow.
References: anon., 2017b (Easter logbook) Entrance pictures : Easter 2017 Underground pictures Video:

\section*{Detailed surve} Line Survey Survex file :

X
4590: resurgence
N Vega 30T 4497204795443 (Datum: ETRS89 Accuracy code: G) Altitude 182 m Area position

A built up resurgence seen about 150 m SSE of Colmenas (0363). No immediate prospects, but the area behind and on both prospects, but the area behind and on both
sides should be investigated in hot weather.

References: anon., 2017b (Easter logbook)
Entrance pictures : May 2017 Entrance pictures: May 2017 Underground pictures Video: Line Survey : On area surv Survex file :
x
4591: dig
N Vega 30T 449325 4796798 (Datum: ETRS89.
Accuracy code: G) Altitude 472 m Accuracy code: G) Altitude 472 m
Length 1 m Depth 1 m Length 1 m Depth 1 m
Area position
Above the Bosmartín-Calzadillas track and to the southeast of El Alto del Pozo is a substantial, vegetated depression with a small hole at the base and scattered cow bones. This is a possible dig with boulders visible 1 m down. It may be worth putting in a couple of hours work, but there is no draught.

References: anon., 2017b (Easter logbook) References: anon., 2017b (Eas
Entrance pictures : May 2017 Underground pictures :
```

Video:

```
```

Detaileds

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

X
4592: rift
Camposdelante 30T 4470074799180 (Datum: Camposdelante 30T 4470074799180 (Da
ETRS89. Accuracy code: G) Altitude 264 m ETRS89. Accuracy code:
Length 4 m Depth 4 m Area position

Updated 20th February, 12th May 2018
A rift in a shakehole becomes very narrow. It was opened up to a tight vertical squeeze to a boulder floor. The way on is blocked by a large slab which could be demolished. In April 2018, it was described as a serious dig. References: anon., 2017b (Easter logbook); anon. 2018a (January, February logbook); anon., 2018b Easter logbook)

\section*{4593: resurgence}

S Vega 30T 4499514795443 (Datum: ETRS89 S Vega 30 T 4499514795443 (Da Accuracy code
Area position

A tiny resurgence under a pile of rocks in a densely vegetated, shallow valley.

References: anon., 2017c (summer logbook) References: anon., 2017c (sur
Entrance pictures: July 2017 Underground pictures

4595: dig
La Secada 30T 4528444798204 (Datum: ETRS89 La Secada 30T 4528444798204
Accuracy code: U) Altitude 202 m

A hole in a shakehole. The grid reference i A hole in a shakehole. The grid reference is
a guess as somewhere between sites 1552 a guess as
and 1553.

References: anon., 2017c (summer logbook) Entrance pictures Underground pictures
Video :
Detailed survey
Letailed surv
On area survey
Survex file

\section*{4596: dig}

La Secada 30T 4526794798153 (Datum: ETRS89 Accuracy code: G) Altitude 221m

A dig at the base of a multi-trunk tree that draughts well even in "relatively cool weather". The two large boulders at the top will need capping to get in

References: anon., 2017c (summer logbook) Entrance pictures : August 2017 Underground pictures:
Video :
Detailed surv
Line Survey : On area sur

4597: dig
La Secada 30T 4526974798155 (Datum: ETRS8 La Secada 30T 4526974798155
Accuracy code: G) Altitude 222 m

A draught between two sizeable rocks
There is not much room to safely store the spoil. The 4th choice of 4 holes in the area.

\section*{References: anon., 2017c (summer logbook Entrance pictures: August 2017} Underground pictures:
Video:
Detailed survey
Line Survey Survex file

\section*{4598: dig}

La Secada 3014527384798206 (Datum: ETRS89 Accuracy code: G) Altitude 226 m

\section*{Area position}

Found as a 30 cm diameter draughting hole on the side of an elongated shakehole, a dig (which also draughts) was eventually
```

Mvidei
Line Survey:
Line Survey

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On area sur
Survex file
X
4599: dig
La Secada 30T 4528624797250 (Datum: ETRS89.
La Secada 30T 4528624797250 ([
Accuracy code: G) Altitude 192 m
Accuracy code:
Area position
Area positic

Updated 20th September 2019
A draughting dig which may be a possible second entrance to Cueva Las Cosas (site 0084). Old coordinates for the hole are 30T 4528704797247.

References: anon., 2017c (summer logbook); anon., 2019d (summer logbook) Entrance pictures : August 2017 Underground pictures Video :
Detailed survey Line Survey On area surve Survex file : X
4600: dig
Seldesuto 30T 4495744794392 (Datum: ETRS89. Accuracy code: A) Altitude 392m
Arcua position
A strongly draughting tiny hole just above the stream bed.
```

References: anon., 2017c (summer logbook)
Entrance pictures:Aug
Undergr
Detailed surve
Line Survey:
On area survey
Survex file :
X
4601: dig
La Secada 30T 4512874797589 (Datum: ETRS89. Accuracy code: G) Altitude 242 m Length 1 m Depth 1 m Area position

```

A small draughting hole, marked with cairn, just below the path to 415, before cairn, just below the path to 415, before
Pants and below 1682?. A drop of a metre Pants and below 1682?. A drop of a metre
shows a noisy, draughting 15 cm diameter shows a noisy, draughting 15 cm diameter
tube to a rift. It would probably be easier to tube to a rift. It would probably be eas
dig down to the rift from the surface.

References: anon., 2017c (summer logbook)
Entrance pictures :
Underground pictures
Video:
Detailed survey
On area sur
On area sury
Survex file :
X
4602: dig
La Secada 30T 4512984797589 (Datum: ETRS89. Accuracy code: G) Altitude 242 m
Area position
A draughting hole about "20m" away from site 4601.

References: anon., 2017c (summer logbook)
References: anon.,
Entrance pictures Underground pictures
```

Video:

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

4603: dig
La Secada 30T 4512484797546 (Datum: ETRS89, La Secada 30T 4512484797546 (
Accuracy code: G) Altitude 235 m Accuracy code
Area position

A shakehole has a draught from under a tree
```

References: anon.,
Underground pictures
Video:
Detailed survey
Detailed surv
On area surve
Survex file :
X
4604: dig
La Secada 30T 451224 4797558 (Datum: ETRS89.
Accuracy code: G) Altitude 244m
Length 4m
Area position
A shakehole has a faint draught at the back It is possible to see 4.5 m into the back of a

``` narrow crawl.

MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 \(\begin{gathered}\text { Volume } 6 \text { - page 143 }\end{gathered}\)

References: anon.,
Entrance pictures Underground picture

\section*{4606: Grietas, Las}

Barrio de Arriba 30T 4455834799357 (Datum: ETRS89. Accuracy code: G) Altitude 175 m Length 267 m Depth \(25 n\) Area position

Updated 31st December 2017; 12th May; 26th September 2018

This was first discovered as a walk-in rift cave which was explored for about 60 m being stopped by an awkward traverse. Ten pitches (all blind) were subsequently explored in a passage described as "not easy with difficult traversing (at times) at roof level. The rift meets a cross rift. On the right, beyond a second pitch, a tight section is reached where only a thin person will be able to pass by traversing at the very top of the rift. The left hand branch is similar. The right arm draughts well. (Minor amendments were made to the survey, 31st December 2017.)

Four pushing trips were undertaken in April 2018. A 20 m traverse from the inlet at April 2018. A 20 m traverse from the inlet at
present mid-point crosses a 10 m deep pitch. present mid-point crosses a 10m deep pitch.
Flowing water at the base heads towards the Flowing water at the base heads tow
main junction although both up and main junction although both up and
downstream passages are too small. Thi downstream passages are too small. This traverse ended at a block in the passage
and was too small to follow in SRT gear. Consideration of the geology suggests that this is an inlet to the main system and tha the way on is downwards at or near the main junction.

Capping occurred at the main junction into a \(3 \times 2 \mathrm{~m}\) chamber. Out of this, another similar size chamber was entered via a 3 m pitch with water entering from the southsoutheast and leaving in the opposite direction. Silt on the floor suggests low flow, with the flow marked by mud, also observed in the deepest pitch. The flow from the NNE inlet flows SSW towards the deep pitch but the confluence is not seen. It is conjectured that the flows seen are It is conjectured that the flows se
perculation water using an existing perculation water using an existing
hypogenic system and there is no lar hypogenic system and there is no large deep cave accessible from this system. The system has been derigged with nuts left on bolts for hangers. Note the environment is aggressive towards aluminium hangers, etc

References: anon., 2017d (autumn logbook);
anon., 2018b (Easter logbook) Entrance pictures : October 2017
Underground pictures: October 2017
2018
Line Surve
On area survey
Survex file : December 2017

4607: hole
Garzón, Solórzano 30T 4502114803368 (Datum: ETRS89. Accuracy code: G) Altitude 265 m Area positior

A small, draughting hole on the side of a depression which needs a lot of work to open up.

References: anon., 2017d (autumn logbook) Entrance picture : October 2017 Underground pictures:
Video:
Detailed survey
Line Survey :
Line Survey
On area sur:
Survex file :

\section*{Depth 9m
Area positio}

This 9 m deep echoing rift needs work to enter.

References: anon., 2017d (autumn logbook) References: anon., 2017d (autumn
Entrance pictures : October 2017 Entrance pictures : Oct Video: Detailed surve
Line Survey : Line Survey On area sur
Survex file :

4609: hole
Garzón, Solórzano 30T 4501484803298 (Datum: ETRS89. Accuracy code: G) Altitude 251 m Length 2 m D
Area position

This small hole in a shallow depression has a 2 m drop to a draughtless boulder floor.

References: anon., 2017d (autumn logbook)
Entrance pictures: Untrance pictures:
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Video:

``` Video : Line Survey : On area survey : Survex file
x
4610: shaft
Garzón, Solórzano 30T 4501154803456 (Datum: ETRS89. Accuracy code: G) Altitude 285 m
Length 10 m Depth 10 m Length 10 m Depth 10 m Area position

Updated 11th December 2018
An 8.5 m pitch into a chamber with 5 ways on. All appear to meet in the middle and it is possible to see on 3 m to 4 m descending at about 30 degrees. Stones suggest that it is 10 m to the next floor although the draughting way on is narrow and needs more work.

The site was re-explored at the end of The site was re-explored at the end of
September 2018 and following description written:
A cave in the very steeply bedded limestone of this area. In an open field, a shallow depression, sparsely ringed by trees, has a hole in the bottom which descends through boulders for 8 m . The drop lands on a rubble slope at about \(35^{\circ}\). The bed-rock upper wall (roof?) slopes at about \(60^{\circ}\) to meet the rubble slope. Where the two meet there are holes through which boulders drop possibly 10 m . In one hole a small team could dig out boulders to assess further the likelihood of progress.

References: anon., 2017d (autumn logbook); References: anon., 2017d (autu
anon., 2018d (autumn logbook)
Entrance picture : October 201 Entrance picture : October 2017 Underground pictures Video:
Detailed surve
Line Survey
On area surve

X
4611: cave
Garzón, Solórzano 30T 4499424803443 (Datum: Garzón, Solórzano 30T 4499424803443 (D
ETRS89. Accuracy code: G) Altitude 286 m Length 25 m Depth 20 m Area position

The entrance is adjacent to open pasture. A small, crawl-in cave, which opens up into a 40 degree hading passage, 20 m in length. 40 degree hading passage, 20 m in length. The end is boulder filled, but
formations in the lower part.

References: anon., 2017d (autumn logbook)
Entrance pictures : Entrance pictures Underground pictures : October 2017 Video : Detailed survey : sketch plan \& section On area surv. Survex file :
x
4612: rift
Garzón, Solórzano 30T 4500664803288 (Datum: ETRS89. Accuracy code: G) Altitude 247 m
Length 2 m Depth 2 m Length 2 m Depth 2 m Area position

A 2 m deep, narrow choked rift.
\begin{tabular}{l} 
References: anon., 2017d (autumn logbook) \\
Entrance picture : October 2017 \\
Underground pictures : \\
Video: \\
Detailed survey : \\
Line Survey : \\
On area survey : \\
Survex file : \\
X \\
\hline MATIENZO UNDERGROUND - site descripions (printed 19/02/2024 \\
Volume 6 - page 145
\end{tabular}
\(\frac{4613: \text { cave }}{\text { San Antonio } 30}\)

\section*{4614: hole}

San Antonio 30T 4452874801347 (Datum: ETRS89. Accuracy code: G) Altitude 87 m Area position

A draughting hole in the side of a
depression. This was excavated down the slope to a bend. The left hand side, under the roof, requires chemical modification.

References: anon., 2017d (autumn logbook) Entrance pictures

4615: rift
San Antonio 30T 4455964801022 (Datum: STRS89. Accuracy code: G) Altitude 100 m Length 2 m Depth 2 m Area position

A rift in the side of a logging track is blocked 2.5 m down.

References: anon., 2017d (autumn logbook)
References: anon., 2017d (autun
anon., 2018b (Easter logbook)
Entrance picture : October 2017 Underground pictures
Video :
Detailed survey
Line Survey : On area survey Survex file

4616: rift
San Antonio 30T 4455274801100 (Datum:
ETRS89. Accuracy code: G) Altitude 102 m Length 5 m Depth 2 m Area position

A 4 m long, 2 m deep rift. A hole on the north has boulders down a slope

References: anon., 2017d (autumn logbook)
Entrance pictures : October 2017 Entrance pictures : October 2017

Video:
Detailed sur
Line Survey
On area survey

4617: shaf
San Antonio 30T 4455844801077 (Datum: ETRS89. Accuracy code: G) Altitude 99 m Depth 5m

An undescended shaft, about 5 m deep
References: anon., 2017d (autumn logbook)
Entrance picture: October 2017
Underground pictures
Video
Detailed survey
Line Survey On area sur
Survex file

\section*{4618: hole}

San Antonio 30T 4455884800858 (Datum: ETRS89. Accuracy code: G) Altitude 131m Depth 4m

Updated 12th May 2018
A 4m deep hollow in a shallow depressior that needs caps to progress.

References: anon., 2017d (autumn logbook)
References: anon., 2017d (au
anon., 2018b (Easter logbook)
anon., 2018b (Easter logbook)
Entrance picture : October 2017 Underground pictures

\section*{4619: rift} San Antonio 30T 4456204800936 (Datum ETRS89. Accuracy code: G) Altitude 101 m Length \(2 \mathrm{~m} \mathbf{D}\)

A 2 m deep rift in brush on the edge of woodland cover.

References: anon., 2017d (autumn logbook) Entrance picture : October 2017 Underg
Video:
Detailed Dideo : Line Survey On area surve Survex file :
x
4620: cave
San Antonio 30T 4455384800886 (Datum ETRS89. Accuracy code: G) Altitude 133 m Length 21 m
Area position

Updated 12th May, 26th September 2018
A walk-in, 30 m long, well developed cave which is choked at the end. Some digging occurred to the right in April 2018.

References: anon., 2017d (autumn logbook);
References: anon., 2017d (al
anon., 2018b (Easter logbook) Entrance pictures : Underground pictures : October 2017 : April 2018-01: April 2018-02
```

Video :

```
Video :
Video:
Detailed survey
```

Line Survey
On area sury
x

4621: shaft
San Antonio 30T 4456184800930 (Datum: ETRS89. Accuracy code: G) Altitude 102 m Depth 3 m Area position

A narrow, draughting $3 m$ deep shaft which is undescended.

References: anon., 2017d (autumn logbook) Entrance pictures

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Underground pictur
```

Video:
Detailed survey
Line Survey
On area surve
Survex fils
X

4622: cave
San Antonio 30T 4456314800876 (Datum: San Antonio 30T 4456314800876 (Datum
ETRS89. Accuracy code: G) Altitude 120 m Length 2 m Area position

A narrow bedding in the cliff.
References: anon., 2017d (autumn logbook) Entrance pictures : Underground pictur Detailed Line Survey : On area surve Survex file :

X
4623: shaft
San Antonio 30T 4456514800917 (Datum ETRS89. Accuracy code: G) Altitude 104 m Length 3 m Depth 3 m

## Area position

Updated 12th May 2018
A small, 3m deep shaft.
References: anon., 2017d (autumn logbook) anon., 2018b (Easter logbook) Entrance pictures : April 2018 Underground pictures Video : Detailed survey On area surve Survex file :

X
4624: shaft
Las Calzadillas 30T 4473314795028 (Datum: ETRS89. Accuracy code: G) Altitude 509 m
Length 15 m Depth 13 m Length 15 m Depth 13 m
Area position
Updated 12th May, 1st July 2018
This large open shaft lies on the side of one of many limestone-edged depressions. It is about 13 m deep and there is no way on at the bottom.

References: anon., 2017d (autumn logbook); References: anon., 2017d (aut
anon., 2018b (Easter logbook) Entrance picture : October 2017, April 2018 Underground pictures :
Video:
MATIENZO UNDERGROUND - site descriptions (printed 19002/202
Volume $6-$ page 14

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\begin{array} { l } { \text { Detailed surv} } \\ { \text { Line Survey } } \end{array}

\section*{4625: shaf}

Las Calzadillas 30T 4474394795039 (Datum: ETRS89. Accuracy code: G) Altitude 493 m Depth 8 m
Area positior

Updated 25th July 2019
An 8 m shaft on the edge of a limestonesided depression. Undescended. In June 2019, the hole could not be found.

References: anon., 2017d (autumn logbook);
anon., 2019c (Whit logbook) References. 2019c (Whit
anon.,
Entrance pictures Underground pictures Video :
Detailed survey Line Survey On area surv
Survex file :

\section*{4626: dig}

Las Calzadillas 30T 4474424794961 (Datum: ETRS89. Accuracy code: G) Altitude 520 m Depth 6m
Area positior
Two large boulders block this undescnded shaft of about 6 m depth

References: anon., 2017d (autumn logbook)
References: anon., 2017d (autum
Entrance picture : October 2017
Untrance picture : Oct
Video :
Detailed survey
Line Survey : On area survey Survex file

\section*{4627: Inclinada, SIma}

Garzón, Solórzano 30T 4501494803681 (Datum: ETRS89. Accuracy code: G) Altitude 325 m Length 94 m Depth 59 m Area position

A large shakehole contains a 5 m diameter shaft which is used as a rubbish tip. The first trip explored to the end of a 52 m rope. The descending passage in a rift is 4 m wide at the entrance then 1 m wide at bottom of the rubbish heap. Three pitches, about 10 m long, leads to a narrow canyon climb dowr to the next short pitch. This shaft descends to a chamber 2.5 m diameter and 8 m high. The cave continues as a very small, draughting tight crawl. There is water in the crawl and chamber.

References: anon., 2017d (autumn logbook) References: anon., 2017d (autumn
Entrance pictures : October 2017 Underground picture : October 2017 Video
Detailed survey : October 2017 plan and elevation Line Survey
On area survey

4628: shaf
4628: shaft
Garzón, Solórzano 30T 4501744803668 (Datum: ETRS89. Accuracy code: G) Altitude 318 m

ETRS89. Accuracy code: G) Altitude 113 m
Area position rea position

A low bedding under a rock face with a drop to the left. There is a slight draught and the site needs digging.

References: anon., 2017d (autumn logbook)
References: anon., 2017d (autumn
Entrance picture : October 2017
Entrance picture : Octo
Underground pictures

\section*{Video :}

Detailed survey : to come Line Survey : On area survey :
Survex file : to come
x
4631: diq
San Antonio 30T 4454304801050 (Datum: ETRS89. Accuracy code: G) Altitude 110 m Area position

This site is at the rear of a depression near logging track. Holes under a boulder draught well but if would be a major dig.

References: anon., 2017d (autumn logbook)
Entrance pictures : Underground pictures :
Video Video :
Detailed survey : to come Detailed sur Line Survey: Survex file : to come

X
4632: cave
San Antonio 30T 4456064801105 (Datum: San Antonio
ETRS89. Accuracy code: G) Altitude 95 m Length 15 m Depth 7 m Area position

A steeply descending, low cave at the base of a cliff. Fifteen metres of low passage leads to a small chamber with the way on choked with blocks.
```

References: anon., 2017d (autumn logbook)
References: anon.,
Entrance pictures :
Undergro
Detailed survey : to come
Line Survey
On area survey :
Survex file : to come
X
4633: cave
San Antonio 30T 445613 4801191 (Datum:
ETRS89. Accuracy code: G) Altitude 92m

```
Area position

A small cave at the foot of a cliff. (Possibly marked in the wrong place).
```

References: anon., 2017d (autumn logbook)
Referances: anon.,
Video :
Detailed survey : to come
Detailed sur
Line Survey :
Survex file : to come
x
4634: shaft
San Antonio 30T 4455394800951 (Datum.
ETRS89. Accuracy code: G) Altitude 137m
Depth 4m
Area position
A 4m deep, draughting and undescended
hole.
References: anon., 2017d (autumn logbook)
Entrances: pictures
Underground pictures
Video:
Dideo:
Line Survey
On area survey :
X
4635: cave
San Antonio 30T 447683 4801906 (Datum:
Length 30m
Area position
A 30m cave "across the valley" from site 3281. The entrance has not been GPS'd and might be on the other side of the valley!
References: anon., 2017d (autumn logbook) Entrance picture : October 2017 Underg Video :
Detailed surve
Line Survey : Line Survey On area surve Survex file :

## Length 30 m

## r

A slanting bedding cave descends at about 45 degrees for 25 m . This leads to a smal chamber full of debris, with the passage continuing for at least 10 m but too small to enter. Draughting

References: anon., 2017d (autumn logbook) Entrance pictures : October 2017
Entrance pictures : Oct
Underground pictures Video :
Detailed survey : to come
Line Survey :
On area survey :
Survex file : to come

## 4637: hole

San Antonio 30T 4453134800604 (Datum: ETRS89. Accuracy code: G) Altitude 169 m Length 2 m Depth 2 m Area position

A $2 m$ deep, mud-floored hole in a field which may be a recent collapse.

References: anon., 2017d (autumn logbook)
Entrance pictures: Entrance pictures :
Underground pictures

```
Undergr
```

Detailed survey : to come
Detailed su
Line Survey
Line Survey :
On area survey :
Survex file : to come
X
4638: resurgence
San Antonio 30T 4452894800608 (Datum:
ETRS89. Accuracy code: G) Altitude 173 m
Length 2 m
Length 2 m
Area position
This site is a small, choked resurgence cave.
References: anon., 2017d (autumn logbook)
Entrance pictures
Underground pictures
Video
Detailed survey : to come
Line Survey :
On area survey :
Survex file : to come
4639: shaft (10 Camms)
4639: Shaft (10 Camms)
Moncobe 30 T 4459234795750 (
Accuracy code: G) Altit,
Lnegth 10 m Depth 6 m
Area position
Updated 16th January, 11th December 2018

A decent size hole in the uphill bank looking down some 6 m or so into a large chamber with no draught but possible ways off. This was checked out the following autumn but no prospects were found, draughting or otherwise in a $4 \times 3 \times 7 \mathrm{~m}$ high chamber.

References: anon., 2017d (autumn logbook); anon., 2018d (autumn logbook) Entrance pictures : autumn 201 Underground pictures
Video:
Detailed sur
Line Survey
On Survey :
On area surve
On area sur
Survex file

4640: shaft (The Fridge)
Moncobe 30T 4459544795778 (Datum: ETRS89.
Accuracy code: G) Altitude 388 m Accuracy code: G) Altitude 388 m
Area position Area position

Updated 16th January, 11th December 2018
A pair of strongly draughting slots looking into a narrow rift that might be passable with some effort. It merits a return with capping gear.

References: anon., 2017d (autumn logbook); anon., 2018d (autumn logbook)
Entrance pictures : October 201
Underground pictures
Video :
Detailed survey
Line Survey
On area sur
On area surv
Survex file

4641: shaft (Nige's Horror) Moncobe 30T 4459614795785 (Datum: ETRS89. Moncobe code: G) Altitude 389 m
Accuracy Accuracy cod
Area position

Updated 16th January, 11th December 2018
A pair of holes, yielding some draught, that A pair of holes, yielding some draught, th
would be worth an hour prodding. They would be worth an hour prodding. They
were found covered by a collapse of the were found covered by a collapse
bank at the end of September 2018. Volume 6 - page 150

References: anon., 2017d (autumn logbook);
anon., 2018d (autumn logbook) non., 2018d (autumn logbook) Entrance pictures: October 2017 Underground pictures Video : Detailed survey Line Survey On area surve Survex file : X
4642: dia
Moncobe 30T 4459014795931 (Datum: ETRS89 Accuracy code: G) Altitude 433 m Accuracy code
Area position

Updated 16th January 2018
A hole down through boulders located in a small shakehole.

References: anon., 2017d (autumn logbook)
References: anon., 2017d (autumn
Entrance pictures : autumn 2017 Entrance pictures : autu

## Video:

Detailed survey Line Survey On area surve Survex file

4643: sink
Moncobe 30T 4458584795883 (Datum: ETRS89. Accuracy code: G) Altitude 435 m Area position

Updated 16th January 2018
A collapse at one end of a depression, with signs that the collapse takes water in wet weather.

References: anon., 2017d (autumn logbook) Entrance pictures : October 2017 Underground pictures Video:
 Line Survey On area surv
Survex file :

X
4644: cave
Navajeda 30T 4436904801233 (Datum: ETRS89. Accuracy code: G) Altitude 99 m Length 2 m Depth 2 m Area position
A hole in the flat top of the knoll is about 1.5 m deep and is undercut to reveal passage fragments full of old stal.

References: anon., 2018d (autumn logbook) References: anon., 2018d (autumn
Entrance pictures : October 2018 Entrance pictures : Oct Video:

```
Detailed s
```

Line Survey :
On area survey
Survex file :
X
4645: dia
N Vega 30T 4493834796924 (Datum: ETRS89
N Vega 30T 449383 4796924 (Dat
Accuracy code: G) Altitude 460 m
Length 3 m
Area position

A draughting hole in the side of a wooded depression, 2-3m long and needs digging.

References: anon., 2018d (autumn logbook)
Entrance pictures : October 2018 Underground pictures

## Video:

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

X
4646: dig
San Antonio 30T 4467174801363 (Datum ETRS89. Accuracy code: G) Altitude 125 m Length 2 m Depth 2 m Area position

A 2 m deep hole in an insignificant depression with a small rock outcrop. [First documented as site c 27/10/12]

Referen
Entrance pictures : October 2012
Underground pictures
Video:
Detailed survey
Line Survey
On area surve
Survex file :
X
4647: shaft
San Antonio 30T 4467074801409 (Datum: San Antonio 30T 4467074801409 (Datum
ETRS89. Accuracy code: G) Altitude 110 m Length 4 m Area position

A small rift entrance a few metres above the | MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024 |
| ---: |
| Volume 6- page 151 |

bulldozed track.

An undercut into possible passage [First documented as site e 27/10/12]

References: anon., 2018a (January, February logbook)

## 4649: dig

San Antonio 30T 4466624801392 (Datum: ETRS89. Accuracy code: G) Altitude 116 m Area position

A bedding entrance to a dig. [First documented as site f 27/10/12]

References: anon., 2018a (January, February logbook)
guesstimate based on a GPS reading (30T 448789 4801852) taken halfway between 4655 and 4656 and a sketch of the relative positions of the 4 sites.

References: anon., 2018a (January, February logbook)
Entrance pictures : February 2018 Underground pictures Video : positions of sink and nearby sites (YouTube) Detailed survey : sites in area plus sketch of 4654 Line Survey: On area survey :
Survex file :
X
4654: shaft
Hornedo 30T 4488054801858 (Datum: ETRS89. Accuracy code: A) Altitude 128 m
Length 15 m Depth 5 m
Area position

## Updated 12th May 2018

This site lies above the (wet weather) ink. A 2 m wide rift drops for 3.5 m where a step down to the east meets the water which sinks. Possibilities for extension exist.

There are a number of interesting holes in the vicinity. These are 4653,4656 . The urrent grid reference above is a guesstimate based on a GPS reading (30T 04487894801852 ) taken halfway between 4655 and 4656 and a sketch of the relative positions of the 4 sites.

The site was linked to 4655 in April 2018, with no obvious way on.

References: anon., 2018a (January, February logbook); anon., 2018b (Easter logbook) logbook); anon., 201
Entrance pictures : Entrance pictures: Video : positions of sink : and nearby sites Detailed survey : sites in area plus sketch of 4654 Line Survey : On area survey : Survex file :
x
4655: dig
Hornedo 30T 4487974801852 (Datum: ETRS89. Accuracy code: A) Altitude 122 m

## position

Updated 12th May 2018
This lies above the (wet weather) sink and was linked to site 4654 in April 2018 but with no obvious way on.

There are a number of interesting holes in the vicinity. These are 4653, 4656. The current grid reference above is a guesstimate based on a GPS reading (30T 04487894801852 ) taken halfway between 4655 and 4656 and a sketch of the relative positions of the 4 sites.

References: anon., 2018a (January, February References: anon., 2018a (January, Februa
logbook); anon., 2018b (Easter logbook) Entrance pictures : Underground pictures Video : positions of sink and nearby sites Detailed survey : sites in area plus sketch of 4654 Line Survey : On area survey Survex file

X
4656: resurgence (old) Hornedo 30T 448781 4801852 (Datum: ETRS89. Hornedo 30T 448781 4801852 (D
Accuracy code: A) Altitude 123 m Accuracy cod
Area position

Updated 12th May 2018
This possible old resurgence (or sink?) lies above the (wet weather) sink. It was above the (wet weather) Sink. It was
suggested in April 2018 that this may be an suggested in
old ice house.

There are a number of interesting holes in the vicinity. These are 4653, 4654, 4655. The current grid reference above is a guesstimate based on a GPS reading (30T 04487894801852 ) taken halfway between 4655 and 4656 and a sketch of the relative positions of the 4 sites.

References: anon., 2018a (January, February logbook); anon., 2018b (Easter logbook
Entrance pictures : February 2018 Underground pictures : Video : positions of sink :
and nearby sites Detailed survey : sites in area plus sketch of 4654 Line Survey On area sur
Survex file :

X
4657: cave
4657: Cave
La Secada 30T 4529754797752 (Datum: ETRS89. La Secada $30 T 4529754797752$ (
Accuracy code: A) Altitude 220 m Length 6 m
Area position

MATIENZO UNDERGROUND - site descriptions (printed 19102/2024
Volume 6- page 153

## 4658: sink

Garzón, Solórzano 30T 4499924802551 (Datum: ETRS89. Accuracy code: A) Altitude 186 m
x
4660: shaft onto a $5 \times 2 \mathrm{~m}$ floor with a tiny rift to a possible chamber beyond.

References: anon., 2018a (January, February ogbook); anon., 2019 f (Christmas logbook); anon. (January, February logbook): Simonnot $G$ Entrance pictures : January 2020 Underground pictures : January 2020 Video:

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Detailed sur
```

Line Survey :
On area survey
Survex file :
X

4662: cave (2736 (French: SCD) Riva 30T 4529354793604 (Datum: ETRS89. Accuracy code: G) Altitude 378 m

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Length 10m
```

Area position

Updated 19th November 2022
The entrance lies in the shakehole below Cueva de Fuente de la Pila (0486) and is Cueva de Fuente de la Pila (0486) and is
about 10 m long, with side passages on about 10 m long, with side passages on either side. It must be related to the small passages heading northeast from the main tunnel in 0486. It has been surveyed by Asociación Lobetum of Cuenca.

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References: anon., 2018a (January, February
Entrance pictures : }201
Underground pictures
Underground pictures:
Video:
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Detailed surve
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Detailed surve
On area surve
On area surve
x
4663: shaft (2737 (French:
SCD)
SCD))
Riva 30T 452811 4793802 (Datum
Accuracy c
Area position
Updated 19th November }202

```

An undescended shaft, about 6 m deep.
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References: anon., 2018a (January, February

```
logbook); Simonnot G, 2022
Entrance pictures : 2018
Undergro
Detailed survey
Detailed sur
Line Survey
On area survey
Survex file :
x
4664: shaft (2738 (French:
SCD)
Riva 30T 4527884793877 (Datum: ETRS89.
Accuracy code: G) Altitude 449 m
Depth 10 m
Area position

Updated 19th November 2022
The information below has been roughly translated from the French, Spéléo-Club Dijon reference,
Simonnot G, 2022 . Simonnot G, 2022.
A covered shaft, about 10 m deep, next to the footpath. It will require some digging to enter. A stream sinks here?

References: anon., 2018a (January, February
logbook); Simonnot G, 2022 logbook); Simonnot G, 2022
Entrance pictures : 2018 Entrance pictures : 201 Underground pictures Video :
Detailed survey
Line Survey Line Survey Survex file :
x
4665: shaft (2739 (French: SCD)
Riva 30T 4530044793841 (Datum: ETRS89. Accuracy code: G) Altitude 420 m Length 5 m Depth 5 m Area position

Updated 19th November 2022
A 5 m shaft that slopes down to the left. Surveyed by the Asociación Lobetum of Cuenca.
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ON area survi
Survex file

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4666: SCDX, Torca ( 2740 (French: SCD))
Riva 30T 4530544793809 (Datum: ETRS89 Accuracy code: G) Altitude 403 m Length 40 m Depth 40 m Area position

\section*{Updated 19th November 2022}

The information for this site has been shared by Guy The information for this site has been share
Simonnot (Simonnot G, 2022) and roughly Simonnot (simonnot G, 2022) and roughly
translated from the French using Google Translate as a starting point. The original grid reference use ED50 datum which has been converted to th ETRS89 datum above, with the altitude taken off the MCP QGIS mar

A 40 m shaft in a small area of limestone pavement. It was descended by the SCD in pavement. It was descended by the SCL
April 1992 then surveyed by Asociación April 1992 then surveyed by Asociació Lobetum of Cuenca. It was previously marked SCD X

References: anon., 2018a (January, February logbook); Simonnot G, 2022 Entrance pictures: 201 Underg
Video
Detailed survey : Asociación Lobetum of Cuenca Line Survey On area sur
Survex file

X
4667: resurgence

\section*{s Vega 30T 4506184794379 (Datum: ETRS89} Accuracy code: G) Altitude 570m Area position

Updated 31st October 2020
A choked resurgence uphill of the track. The sink on the downhill side was not seen but the water may disappear over a diffuse area the water may disappear over a diffuse area
or be collected to flow through a pipe seen with recent groundworks heading down to the barn to the southwest of Papá Noel (1471).

References: anon., 2018b (Easter logbook); anon., 2020d (autumn logbook) Entrance picture : March 2018, October 2020 Undergr
Video :
Detailed survey Line Survey On area surv
Survex file : Survex file

\section*{4668: cave}

S Vega 30T 4520914794840 (Datum: ETRS89 S Vega 30T 4520914794840 (Da
Accuracy code: G) Altitude 452 m Accuracy co
Length 20 n Area position

Updated 18th May 2019
A small cave first spotted by drone, and few metres west of Torca del Dron (site 4669). An open, slide-in entrance leads to south-heading hands-and-knees crawling to an enlargement with a smaller passage off to the east. This is sideways squeezing for about 8 m to where it turns to the north, back out of the hill, towards Torca del Dron. There is a pitch ahead and boulders could be heard falling when the shaft top at Torca del Dron was being cleared.

A further inspection at Easter 2019 suggested that this route is too tight and awkward to be a second entrance to Dron and that any excavation in the floor would take days.

References: anon., 2018b (Easter logbook); anon., 2019b (Easter logbook) Entrance pictures: March 2018 \& Apri
Underground pictures : March 2018 Video :
Detailed survey
Line Survey On area surv
Survex file : Survex file

\section*{4669: Dron, Torca del}

S Vega 30T 4520974794840 (Datum: ETRS89 Accuracy code. G) Altitude Area position

Updated 30th May, 26th September 2018; 18th May 2019; 19th September 2021. 22nd September 2022; 22nd May 2023

The entrance shaft has been covered by the farmer with concrete posts which should not be removed. (photos here) A route under the lintels on the north side has been opened up and "gated" and a large boulder perched in the shaft removed (April 2019) The entrance protection can be removed and MATIENZO UNDERGROUND site descripions (printed 19/02/2024) Volume 6 - page 156
replaced with a bolt spanner. The entrance
field often has a feeding cattle herd, including a bull.

A branch- and concrete lintel-covered feature, first spotted by drone, lies about 30 m below the Cantones (TV mast) track and pink barn and a few mitres east of site 4668. The passages and pitches are particularly muddy causing some difficulty when prusiking.
[April 10th 2023 notes below by Andrew Northall]
TACKLE REQUIRED
Ant, Man, Bee
The Lift Shaft: Going Down! \(\quad 95 \mathrm{~m}\) rope and
The Service Elevator 65 m rope, 5
Entry to Haberdashery Dept 4 hangers Haberdashery Pitch 4 hangers 15 m rope, 4 h
1 sling and 4 h
(On a trip, 10th April 2023, the entrance pitch was found to be rigged. The anchors were rusted and will require replacement at some point. The rope at the entrance (ti
to the concrete bars over the top with a sling) was slightly mouldy however still safe
so sling) was slight
to use for now.)
A bolt, about 3 m north of the entrance in A bolt, about 3 m north of the entrance in some exposed limestone, can be used as a
belay along with a sling on a concrete beam belay along with a sling on a concrete The entrance pitch, Ant, Man, Bee, is
broken into 3 distinct sections of \(12 \mathrm{~m}, 6 \mathrm{r}\) broken into 3 distinct sections of \(12 \mathrm{~m}, 6 \mathrm{~m}\)
and 12 m , with big ledges in between. A 50 r and 12 m , with big ledges in between. A 50 m
rope will suffice for the whole pitch. The first rope will suffice for the whole pitch. The firs
section is broken by a rebelay a couple of metres down. Once at the first ledge, a bolt partway down the next section in the opposite wall provides a second rebelay. At the second ledge, there is a bolt above a small hole leading down to the final section of the pitch. A further bolt a couple of metres below provides a free hang down to the bottom of the entrance pitch.
Leading away from the bottom of the pitch is Snowball Passage, an almost dry streamway leading to the head of a short 5 m pitch. To the right of the pitch is a small passage that eventually becomes too passage that eventually becomes too
narrow. Just back from the pitch, on the left, is another passage that also becomes too small. Water appears at the top of the \(5 n\) pitch, which drops into a wider chamber below. An easy wriggle out of the back of
this leads to a short 3 m pitch down into a this leads

Back at the top of the 5 m pitch, a travers over the top is the main continuation. Up on the right here are some fine snowball-like formations. Continuing the traverse around to the left leads to a short crawl into a stal alcove, followed by a feet-first drop onto a traverse: The Neighbourhood of Infinity. The traverse is at the top of a high rift and the water from the bottom of Snowball Passage can be seen flowing 10 m below. At the end of the traverse is an impressive black void and the head of an 80 m freehanging pitch: The Lift Shaft: Going Down! This pitch is rigged from a Y-hang high on the left wall and a 95 m rope will suffice for both the traverse and the pitch. \(01.12=19-01 . \mathrm{Y}\) ) a route off to the west \(01.12=19-01 . Y)\) a route off to the west
encounters a pitch where, at station 19 \(01.4,9 \mathrm{~m}\) down on the first ledge, a survey note reads: Rigged 15 m further down disto
no failed.

A horizontal passage can be seen across the top of the Lift Shaft: Going Down! and his was entered at Easter 2019.
The 4-bolt traverse to the horizontal passage is an awkward rig, with loose ledges liable to fall down the 80 m pitch. The passage is false floored and after about 5m
there is a p25. This drops onto a solid rock wall between two shafts. A horizontal passage that goes off from here is 10 m long to an aven. The drop is estimated to be 80 m ( 4 second drop) but remains undescended and this Service Shaft extension is not surveyed. The drop may join back to Lift seen across the top of the new shaft has not this area. The 2018 survey has not been amended

Further exploration was carried out here on 14/8/2021. (Sketch from the logbook.) At the limit of exploration, the upper passage splits into two, the left hand one appearing too tight and another bolt gives access to the right hand passage. The route ahead chokes but the larger passage, 4 m above, is an aven chamber with a sloping moon milk floor. (The passage above requires bolts and appeared too small. A redescent of the "Col" pitch enabled a proper
look at a "big walking passage" (seen 2 look at a "big walking passage" (seen 2 years ago) that now appeared to be nothing more than an alcove". The"other shaft" has yet to be descended. "Despite it being \(99 \%\) going to drop into the same place as the other shaft (Lift Shaft: Going
MATIENZO UNDERGROUND - site descriptions (printed 19/02/2024)
Volume 6 - page 157

Down! ), there may be ways off." [Alex
Ritchie]
The section above has not been surveyed
The Lift Shaft: Going Down! descends in fine style, and bells out impressively abou
10 m down, where the Snowball Passage 10 m down, where the Snowball Passa
water enters. Abseiling past this point water enters. Abseiling past this point
reveals that Snowball Passage is completely reveals that Snowball Passage is complete suspended in the corner of a much bigger development: the floor and one side of
incoming passage consist of layers of incoming passage consist of layers of bedrock no thicker than half-a-metre! Belc
the Snowball Passage ledge are several the Snowball Passage ledge are several
unentered passages and features. These unentered passages and features. These
will require some acrobatic manoeuvres to
(From 10th April 2023 trip: The 'Lift Shaft' 80 metre pitch was also found to be rigged although leading into 'The Haberdashery Department'. A new rope was rigged alongside this and a pendulum made to swing into the 'His \& Hers' development level. It was considered unwise to unrig the rope to 'The Haberdashery Department' as it will become very difficult to regain access to this level once it is unrigged.)

At around 40 m down is a very large development level, The Haberdashery Dept., which can be seen to extend in two different directions in 5 m wide passages. The Haberdashery Dept. (survey batch 18 03 ) can be entered by swinging in and lassoing one of several stals. Two bolts in the ceiling can be used to abseil back out into the main shaft where a further two bolts 43 m below the Lift Shaft pitch head can be used as an a further rebelay a large aven chamber, estimated to be about 50 m high. A climb up the opposite wall from the pitch has been pushed, but did not go very far. The main continuation is a crawl under the right wall from the bottom of the pitch head. This leads into a very wide, stooping-height bedding: Sof Furnishings. Various possible ways on close down here, but a passage taking the draught was dug through into a flat-out continuation - The Smithsonian Institute Blues (aka The Big Dig) - to where ten minutes work with a trowel should be enough to break through. This passage is draughting strongly. However, on a visit on \(7 / 8 / 2022\), the "ten minute dig" was found to be incorrect. The excavtion is in a sedimentfilled phreatic passage and 10 m were dug on this occasion. The roof was described a needs a crowbar to loosen and remove spoil. corner is visible ahead
Dave Barrett continues in the logbook account (7/8/2022): The phreatic passage it pill It was filled with sediment as there is the roof anmed in the solution pockets in lowered the sediment floor. Inside the
low passage there are different levels of incision and steps remain, showing sections of the sediment. A small stream on the southwes side is still cutting down. The water all goes south / southwest in the same direction as the dig, although there is no water course in the dig.

Back in the main shaft, 20 m further down s another big development level, His \& Hers. (Batch 18-02, stations 18-02.2.1 and
\(18-02.2 .2\) are at the entry point. 18, 2.2 are at the entry point. The series was explored and surveyed as batch 23-01 at Easter 2023.) This can be entered in similar fashion to The Haberdashery Dept.,
but much more easily. Once again there is a bolt and a natural belay in the passage which can be used to put in a re-belay lower down in the main shaft. His \& Hers drops down to a rift passage with pitches
described below. A traverse along the top of the rift to the right requires some protection along this and thinks that it probably does not continue at the end. Left at the top of the pitch leads to a climb down to a passage that reaches the bottom of an unclimbed pitch up into a "house-sized" passage 10 m

MATIENZO UNDERGROUND site descripioions (printed 1902/2024) Volume 6 - page 158
above. This may be the bottom of the right hand branch of The Ha Description of His \& Hers from the April 11th push and survey (batch 23-01) [Andrew Northall]:
The undescended pitch marked 'water splash below' was surveyed to a depth of 7.5 m (P7.5) which then continued to nother pitch of 4 m (P4), followed by another pitch of \(4 \mathrm{~m}(\mathrm{P} 4)\), followed
approx. 10 m of horizontal passage and then approx. 10 m of horizontal passage and then another pitch of 8 m (P8). This landed in an extremely muddy chamber with an aven of 10 m horizontal length and 15 m height. All three can be rigged using a 50 m rope. The top of the P8 is awkward and constricted and the anchor is very low down - this could do with re-rigging if in regular use (photos show this feature).
Two more pitches, one accessed via a tight rift and another via a tight, muddy, and crumbly crawl (P12) were found here. Both lead to the same circular chamber (Draughty Broccoli Aven) with a height of 15 m and a width of 7 m . Various small tubes were seen to connect to this chamber; all are too narrow to access. The chamber is well decorated, very cold and a draught is noticeable. However, there is no obvious way on. The floor consists of flat, firmish, mud with some water visible through a very thin slit adjacent to the floor underneath the flowstone walls.

The total survey length of the new passage found concludes at 94 m with a vertical range of 39 m . 'Draughty Broccoli Aven' is 30 m below the bottom of the 'Lift Shaft', and is 30 m above the lowest known, surveyed point of the cave. It is 35 m south west of the main continuation of the cave. Rigging:
P7.5: Natural stal belay in floor after the climb down into His \& Hers to single bolt anchor in opposite wall to traverse under and down slippery stal to a two bolt Y-hang in wall above pitch.

P4: No further rigging, the P7.5 lands on lodge and the same rope can be used to continue straight down

P8: Single bolt rebelay low down at the pitch head. Awkward and constricted pitch that ideally would be re-rigged.
P12: Climb down from the penultimate aven chamber and turn right to step up into a muddy crawl. Two traverse line anchors lacated on the left wall before a reach over the pitch to access two anchors for a Y -han in the far wall.

Once more back at the Lift Shaft, the main 80 m descent ends at a large chamber, \(\boldsymbol{I}\)
Free! Several possible pitches exit this chamber, all suspected to join up. The main continuation is to the right, opposite the rope, and descends a 50 m pitch- The Service Elevator - broken by a large ledge 15 m down. This is rigged from a natural belay with a deviation a few metres down, followed by a 35 m free hang from a Y -hang in the opposite wall to the ledge. Ten metres down from the ledge is a large, unentered down from the ledge is a large, unentered passage. The Service Elevator can be rigg with one 65 m rope. At the bottom of
Service Elevator is some impressive flowstone and a small passage leading to a lowstone and a small passage leading to a much larger chamber: Ladies' Wear. The water exits via an unpushed, flat-out crawl the floor. Ladies Wear is the base high aven. A passage - possibly the unentered one seen from The Service Elevator- is visible above. At the back of the chamber, a degenerating crawl leads to an uninviting, draughtless dig.
Tackle list and passage descriptions for batches 18-01, 18-02 and 18-03: James Carlisle

A trip in August 2019, photographed the main pitch but didn't push any leads. p80 up to ledge (YouTube) Detailed survey : Easter 2018 : slightly amended after summer 2021 : sketch from August 2021 : (summer 2022 dig
2021) : Easter 2023 Line Survey On area surv Survex file : Easter 2023 : hillside with SVS and Vallina

X
4670: cave
S Vega 30T 4521294794847 (Datum: ETRS89 Accuracy code: G) Altitude 445 m
```

Depth 2m

```
A small, unexplored drop.
References: anon., 2018b (Easter logbook)
Entrance pictures: March 2018
References: anon., 2018b (Easter
Entrance pictures : March 2018
Underground picture :
Entrance pictures: Mar
Video:
Detailed surve
Line Survey :
Line Survey
On area survey
Survex file :
X
4677: shaft
S Vega 30T 4519384794562 (Datum: ETRS89
Accuracy code: G) Altitude 514 m
Accuracy code: G) Altit
Length 7 m Depth 5 m
Length 7m D
Area position
A rock-sided hole with a drop down to a
ledge and a further drop of 3 m that appears
ledge and a further drop of 3 m that appears
blind at the base.
References: anon., 2018b (Easter logbook)
Entrance pictures: : March 2018
Underground picture :
Underground picture :
Video:
Detailed survey
Detailed surve
On Survey :
On area surve
On area survey
On area sur
Survex file :
X
4678: shaft
S Vega 30T 4519414794657 (Datum: ETRS89.
S Vega 30T 4519414794657 (Datu
Accuracy code: G) Altitude 492 m
Length 3 m Depth 3 m
Area position
A choked, 3 m deep hole, next to a fence.
References: anon., 2018b (Easter logbook)
Entrance pictures: March 2018
Entrance pictures : Mar
Underground picture :
Video :
Detailed survey
Line Survey
On area surve
Survex file :
X
4679: dig
S Vega 30T 451926 4794643 (Datum: ETRS89.
S Vega 30T 4519264794643 (Datu
Accuracy code: G) Altitude 492 m
Accuracy code
Area position
A small pile of rocks - removed to find a tiny
rift.
References: anon., 2018b (Easter logbook)
Entrance pictures: March 2018
Entrance pictures: March 2018
Underground picture :
Underg
Detailed survey
Line Survey
On area survey
Survex file :
x
4680: shaft
S680. Shaft 4794582 (Datum: ETRS89.
Accuracy code: G) Altitude 512 m
Length 2 m Depth 4 m
Length 2 m
Area position

A block needs removing part way down this small hole before the (probably choked) floor can be reached about 4 m down.
```

References: anon., 2018b (Easter logbook)
Underground picture
Video:
Detailed survey
Detailed sur
Line Survey :
On area sury
x
4681:shaft
S Vega 30T 451944 4794766 (Datum: ETRS89.
Accuracy code: G) Altitude 460m
Depth 4m
Area position

```
Updated 6th May 2019

An excavated shaft top in a depression with a tree below the track drops into a tight, undescended p4. More photos were taken in December 2018. References: anon., 2018b (Easter logbook); anon.,
anon., 2018e (Christmas logbook)
Entrance pictures : March 2018 : December 2018 Entrance pictures : March 2018 : December 2018 Underground picture :
Undergr
Video :
Detailed
Dideo :
Line Survey :
On area survey :
On area surve
Survex file :
Survex file :
X
4682: depression
S Vega 30 T 4518654794718 (Datum: ETRS89
Accuracy code: G) Altitude 453 m
MATIENZO UNDERGROUND - site descripions (printed 19/02/20244 \(\begin{gathered}\text { Volume } 6 \text { - page } 16\end{gathered}\)
Video :
Detailed survey
Line Survey :
On area survey
Survex file
4684: shaft
Las Calzadillas 30T 4475254795366 (Datum:
ETRS89. Accuracy code: G) Altitude 440 n
ETRS89. AcCl
Area position

An undescended, small shaft. (Ref: 25e)
References: anon., 2018b (Easter logbook)
Entrance pictures
Entrance pictures :
Underground pict
Video :
Detailed sur
Line Survey
On area surv
On area sur
Survex file

4685: shaf

\title{
An undescended shaft in loose boulders.
}

4689: cave
San Antonio 30T 4470734801577 (Datum San Antonio 30T 4470734801577 (Datum
ETRS89. Accuracy code: G) Altitude 94 m Length 8 m Area position

An 8 m long through cave. (Ref: 27a)
References: anon., 2018b (Easter logbook) Entrance pictures :

\section*{Video :}

Detailed survey Line Survey On area surve Survex file (Ref: 28a)

References: anon., 2018b (Easter logbook)
Entrance pictures Underground picture Video :
Detailed survey Line Survey Survex file x
4691: shaft
San Antonio 30T 4457984800710 (Datum: ETRS89. Accuracy code: G) Altitude 141 m Area position

A shaft uncovered by forestry work at the junction of two tracks. It needs capping to enter and the rift visible part way down would also probably need caps. (Ref: 28b)
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References: anon., 2018b (Easter logbook)

```
Entrance pictures :
Video:
Detailed survey
Line Survey
On area survey :
Survex file :
x
4692: dig
San Antonio 30T 4458624800710 (Datum
ETRS89. Accuracy code: G) Altitude 137 m
Area position

Updated 12th December 2018
A depression with a small rock face containing 2 small tubes. At the base are possible digs. (Ref: 28c). At the end of September 2018 the "small tube was draughting well".

References: anon., 2018b (Easter logbook); anon., 2018d (autumn logbook Entrance pictures :
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Underground picture

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Video:
Detailed survey
Detailed sury
Line Survey
On area surv
One Surea surve
Survex file:
X

4693: cave
San Antonio 30T 4462634801063 (Datum: ETRS89. Accuracy code: G) Altitude 144 m Area position

Updated 26th September 2018
An undercut in the cliff face with no draught or prospects. (Ref: 29a)

References: anon., 2018b (Easter logbook) Entrance pictures : March 2018 Underground picture
Detailed survey Line Survey

MATIENZO UNDERGROUND - site descripitions (printed \(19002 / 2024\)

\section*{On area surv \\ Survex file}

\section*{4694: dig}

\section*{4695: Children's Play Cave} San Antonio 30T 4462374801321 (Datum:
ETRS89. Accuracy code: G) Altitude 105 m Length 40 m Area positior

Updated 26th September 2018
A fossil remnant about 40 m long by \(3-5 \mathrm{~m}\) wide, 2 m high, with a short branch to the west. The cave has a walk-in / crawl entrance and might have archaeological interest. (Ref: 29e)

References: anon., 2018b (Easter logbook) Entrance pictures : March 2018 Underground pictures: March 2018
Video :
Letailed survey
On area survey
On area su
Survex file

\section*{4696: shaf}

El Naso 30T 4514634796330 (Datum: ETRS89 Accuracy code: G) Altitude 451 m Length 5 m Depth 5 m Area position
A small shaft \((1 \mathrm{~m} \times 0.5 \mathrm{~m})\) descended to 5 m in a NE direction. It needs capping to continue.

References: anon., 2018b (Easter logbook)

4697: cave
San Antonio 30T 4462254801320 (Datum: ETRS89. Accuracy code: G) Altitude 104 m Length 2 m
A sm
29f)

References: anon., 2018b (Easter logbook) Entrance pictures Underground pictur
Video :
Detailed survey
Line Survey
On area survey
Survex file

\section*{4698: shaf}

San Antonio 30T 4461204801248 (Datum: ETRS89. Accuracy code: G) Altitude 109 m Area position

Updated 26th September 2018; 5th June 2019

A 5 m deep rift under a cliff with the way on in a draughting rift in the floor. (Ref: 29g) A calcited boulder was removed from the floor in April 2019 but there is still "lots to
do".

References: anon., 2018b (Easter logbook); anon. 2019b (Easter logbook

\section*{ength 56 m
rea position}

Updated 27th September, 12th December 2018

A large shaft which drops 9 m to a boulder oor with strongly draughting rift at the north end (not passable) and a smaller rift at other end that was capped to a p9. Another 4-5m drop was reached that also Another 4 5m drop wask has been done eds capping. S
In the summer
In the summer 2018, more work in horrible conditions" opened up a narrow nd awkward p5 to a final \(5 \times 3 \mathrm{~m}\) chamber with two very small outlets in a rubble floor where water drains away. (A crawl above the p3 may continue; see sketch.)
Two visits in the autumn, 2018 pursued a couple of possible leads:
- The end of the passage leading off from head of fourth pitch was examined. The only possibility would require a lot of work to open up the floor to get down into a low, mud-floored area.
- At the crawl below the 3rd pitch the gritstone boulder choke along the left turn at the \(T\) junction was attacked but it has "no encouraging features". At the end, it was clear that the floor slopes up to the roof. However, just before the final 3 or 4 m there However, just before the final 3 or 4 m th is a draught blowing along the passage which presumably goes down the slot in the floor. It would take a lot of work to open up this slot.

Survey data transposed from a Word document (summer 2018) was used to create the 3d file, linked below. Further surveying took place in the autumn before the cave was cleared

References: anon., 2018b (Easter logbook); anon.
 logbook)
Entrance pictures : Easter 2018
Underground picture : Easter 2018
Video : entrance (YouTube)
Detailed survey : sketch of the final chamber and the crawl above the p3
Line Survey
On area survey :
Survex file : 2018
x
4700: sink
San Antonio 30T 4460254800906 (Datum ETRS89. Accuracy code: G) Altitude 152 m Area position

A \(2 \times 1.7 \mathrm{~m}\) sinkhole in a valley. Site 4701 is 30 m down valley. (Ref: 30a)

References: anon., 2018b (Easter logbook) References: anon.,
Entrance pictures Underground picture

\section*{Video :}
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Detailed surve
Line Survey

```
On area survey
On area sur
Survex file :
X
4701: sink
San Antonio 30T 4460394800930 (Datum:
ETRS89. Accuracy code: G) Altitude 145 m
ETRS89. Accuracy code
Length 1 m Depth 1 m
Length 1 m D

A 1 m deep sinkhole about 30 m down the valley from site 4700. (Ref: 30a)

References: anon., 2018b (Easter logbook) Entrance pictures Video: dideo: Line Survey : On area surve Survex file
x
4702: hole San Antonio 30T 4456254800770 (Datum
ETRS89. Accuracy code: G) Altitude 155 m Area position

Updated 27th September 2018
No description. (Ref: 28d)
References: anon., 2018b (Easter logbook) References: anon., 2018b (Easter
Entrance pictures : Easter 2018 Underground picture
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Video

```
Detailed survey
Line Survey
On area surve
Survex file
\(x\)
4703: hole
STO3: hole
San Antonio 30T 4456134800767 (Datum
ETRS89. Accuracy code: G) Altitude 156 m
Area position

Updated 27th September 2018
No description. (Ref: 28e)
References: anon., 2018b (Easter logbook)
References: anon., 2018b (Easte
Entrance pictures : Easter 2018 Entrance pictures : Eas
Underground picture : Video : Detailed survey Line Survey: On area survey Survex file

\section*{4704: depression}

San Antonio 30T 4455884800784 (Datum ETRS89. Accuracy code: G) Altitude 140 m Depth 8 m Area position

Updated 27th September 2018
An 8 m deep depression to a dig. (Ref: 01a)
References: anon., 2018b (Easter logbook) Entrance pictures : Easter 2018 Underground picture : Easter 2018
Video : entrance (YouTube)
Detailed survey
Line Survey Survex file :

\section*{4705: shaf}

San Antonio 30T 4455654800780 (Datum ETRS89. Accuracy code: G) Altitude 151 m Depth 2 m Area positio

Updated 27th September 2018
A 2 m deep hole with twin shafts 1 m apart that are several metres deep. Undescended (Ref: 01b)

References: anon., 2018b (Easter logbook) Entrance picture: April 2018
Video :
Detailed survey
Line Survey :
On area survey
Survex file

4706: dig
San Antonio 30T 4455884800794 (Datum: ETRS89. Accuracy code: G) Altitude 149 m Length 2 m Depth 1 m Area position

This is 10 m north of site 4704 and is \(1 \times 0.4\) \(\times 1 \mathrm{~m}\) deep with a hole in the floo continuing. (Ref: 01c)

References: anon., 2018b (Easter logbook) Entrance pictures
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Video:

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Video:
Letailed sur
Line Survey :
On area sur
Survex file

\section*{4707: cave}

San Antonio 30T 4453024800955 (Datum ETRS89. Accuracy code: G) Altitude 152 m Length 5 m

Updated 27th September 2018
A big depression ( 14 m deep and 20 m wide) with a wall around the top. A hole is 2 to 2.5 m wide and 5 m long with 0.75 m maximum height. It continues low for ai least 4m A draught has been felt. (Ref: 01d)

References: anon., 2018b (Easter logbook) Entrance pictures : April 2018 Underground picture :

\section*{4708: rift}

A double shakehole where the depression to the east has 2 holes but no draughts. (Ref: 01g)

References: anon., 2018b (Easter logbook) References: anon.,
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Underground pictur

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Video :
Detailed survey
Line Survey
On area survey
On area sur
x

4710: cave
S Vega 30T 452639 4794026 (Datum: ETRS89
S Vega 30T 452639 4794026 (Dat
Accuracy code: G) Altitude 482 m
Accuracy cod
Length 4 m
Area position
A 4 m crawl over an earth floor ends at a
small hole.

References: anon., 2018b (Easter logbook) Entrance picture : April 2018 Underground picture :
Video :
Detailed survey :
Letailed sur
On area survey
Survex file :
x

\section*{4711: shaft}

S Vega 30T 4530774794065 (Datum: ETRS89. Accuracy code: G) Altitude 465 m Length 35 m Depth 23 m Area position

Updated 27th September 2018
A small hole between limestone blocks containing a p10 to a small rift. An 8 m continuation of the pitch was dropped in the summer to clean-washed limestone bebbles A parallel shaft 3 m up from the base also chokes. There is no draught.
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References: anon., 2018b (Easter logbook)

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References: anon., 2018b (Eas
Entrance picture : April 2018
Untrance picture : Apri
Undergro
Video:
Detailed
Detailed survey
Line Survey
On area surve
Survex file
X
4712: Edraith, Torca de
\(\frac{\text { 4712: Edraith, Torca de }}{\text { Riaño 30T } 4519204800094 \text { (Datum: ETRS89. }}\)
Riaño 30T 451920 4800094 (Datur
Accuracy code: G) Altitude 170 m
Accuracy code: G) Altitud
Length 19 m Depth 15 m
Length 19 m
Area position
Updated 30th May 2018
A vertical squeeze onto a broken p14 to
A vertical squeeze onto a broken p14 to
reach a depth of 15 m . A parallel shaft on
reach a depth of 15 m . A parallel shaft on
the last drop has a good draught but needs
work to enter.
work to enter.
References: anon., 2018b (Easter logbook)
Entrance pictures : April 2018
Entrance pictures : Ap
Underground picture
Video:
Detailed survey : Easter 2018
Letailed survey
On area survey
On area survey :
Survex file : April 2018 : On the 4 Valleys 3d file
(Xmas 2023)
x

4713: Extra Special Pot (ESP) Riaño 30T 4520534799990 (Datum: ETRS89 Accuracy code: G) Altitude 176 m Length 63 m Depth 20 m Area position

A small hole enters 8 m of well decorated passage to a 12 m drop. A too tight rift is blocked with calcite.

References: anon., 2018b (Easter logbook) References: anon., 2018b (Eas
Entrance pictures : April 2018
Underground pictures: April 2018 Video :
Detailed survey : in hand
Detailed surv
On area surve
Survea survey : 2018 : On the 4 Valleys 3 d file
Survex file (Xmas 2023)

X
4714: shaft
S Vega 30T 4522964794888 (Datum: ETRS89. Accuracy code: G) Altitude 404 m Length 22 m Depth 8 m Area position

Updated 27th September 2018
A p4 is rigged off a tree to a choked floor. A slide into a short passage leads to a 3 m MATIENZO UNDERGROUND - site descriptions (printed 19/02/202
Volume 6 - page 16
climb up and a p5 (or a free-climb with rope) into a decent-sized chamber which is blind at the base. A possible lead across the top of the p5 (at the same level as the entrance) requires bolts

References: anon., 2018b (Easter logbook)
References: anon., 2018b (Easter I
Entrance pictures : August 2018
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Video:

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

4716: shaf
N Vega 30T 4494474795950 (Datum: ETRS89 Accuracy code: G) Altitude 353 m Length 12 m Depth 9 m

A small draughting hole near to a ruined barn which needed capping to gain access to the rift. The hole was opened up in Augus 2019 to a tight, 6 m deep rift, landing on a slope of choss. Up the slope, into the hill another drop of 3 m choked. Down the slope, the draughting route continues past "two very large sandstone blocks that need dispatching"

References: anon., 2018b (Easter logbook); anon., Entrance pictures : April 2018 : August 2019 Underground pictures
```

Updated 21st September }201

```
A small hole near a holly tree which may
dig.
References: anon., 2018b (Easter logbook); anon.
2019d (summer logbook)

\section*{4719: dig}

\section*{San Antonio 30T 4460994801284 (Datum;} ETRS89. Accuracy code: G) Altitude 119 m Depth 3m Area position

Updated 27th September 2018
A small. draughting, possibly 3 m deep hole at the side of a rock outcrop. (Ref: 03a)

References: anon., 2018b (Easter logbook)
Entrance nictures. Anril 2019 Intrance pictures : April 2019 Underground pictures Video : entrance measuring
Detailed survey : Detailed surve Line Survey Survex file :

X
4720: cave
San Antonio 30T 4462254801275 (Datum STRS89. Accuracy code: G) Altitude 94 m Length 2 m Area position

A sloping hole to stal fill. (Ref: 29c)
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References: anon.,

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Entrance pictures:
Underground pictures
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Undergr

```
Detailed survey
Line Survey
On area survey :
Survex file :
X
4721: rift
San Antonio 30T 4462214801270 (Datum:
ETRS89. Accuracy code: G) Altitude 94n
Depth 4 m
Area position
A steeply sloping rift which is too narrow to
enter. (Ref: 03b)
References: anon., 2018b (Easter logbook)
Entrance pictures
Untrance pictures :
Underground pictur
Video:
Detailed
Line Survey :
On area survey
Survex file :
X
4722: dig
San Antonio 30T 4462304801272 (Datum:
San Antonio \(30 T 4462304801272\) (Datur
ETRS89. Accuracy code: G) Altitude 94 m
Depth 2 m
Depth \(2 m\)
Area position

Some \(3 m\) from site 4721. A hole against the back wall about 2 m deep. (Ref: 03b)

References: anon., 2018b (Easter logbook) Entrance pictures Underground pictures
Video:
Detailed survey
Detailed surve
Line Survey:
On area surve
On area surve
X

4723: sink
San Antonio 30T 4458064800413 (Datum: San Antonio 30 T 4458064800413 (Datum
ETRS89. Accuracy code: G) Altitude 198 m Area position

Updated 5th June 2019
A wet weather sink under a rock wall. (Ref: A wet weather sink under a rock wall. (Ref:
\(04 a)\). No change was noticed when visited in April 2019.

References: anon., 2018b (Easter logbook); anon., 2019b (Easter logbook) Entrance pictures : Video: Detailed survey Line Survey On area survey Survex file :

X
4724: sink
San Antonio 30T 4454244800946 (Datum ETRS89. Accuracy code: G) Altitude 149 m

\section*{Depth 1m \\ Area positio}

Updated 27th September 2018
A dig in a 1.2 m deep track-side hole that takes water. (Ref: 04b)
```

References: anon., 2018b (Easter logbook)
Entrance pictures: April 2018
Video:
Detailed survey
Detailed su
Line Survey:
Survex file
x
4725: collapse San Antonio 30T 4455344800979 (Datum: ETRS89. Accuracy code: G) Altitude 133 m Length 5m Depth 5 m
Area position
Updated 27th September 2018
A 5m deep collapse, undercut at the base. This feature is all in earth. (Ref: 04c)

``` MATIENZO UNDERGROUND - site descripitions (printed \(19002 / 2024\)
Volume \(6-\) page 169

References: anon., 2018b (Easter logbook)
Entrance pictures : April 2018 Entrance pictures : April 2018 Underground pictures Video Detailed survey Line Survey
On area sur On area surv
Survex file :

4728: hole

Below an obvious outcrop in the shakehole, a small draughting hole is over 1.5 m deep. (Ref: 04g)

References: anon., 2018b (Easter logbook)
Entrance pictures: April 2018 Underground pictures

4730: shaf

\section*{\(\underset{\substack{\text { Depth } 5 m \\ \text { Area posit }}}{ }\)}

A 1 m diameter entrance to a shaft, possibly 5 m deep, needing a ladder. It may cut under at the bottom. The site was noted by members of the Easter 2018 entomology project and is out of the current permit area.

References: anon., 2018b (Easter logbook) Entrance pictures : nderground pictu Video : Line Survey : On area survey Survex file :

\section*{x}

\section*{4732: Decepción, Torca la}

\section*{bottom entrance)}

La Secada 30T 453011 4798395 (Datum: ETRS89. Accuracy code: G) Altitude 232 m
Length included in the 4 Valleys System (See 0107 Hoyuca)

\section*{Area position}

Updated 27th September, 12th December 2018; 3rd March, 23rd August 2020; 23rd September 2021; 23rd May 2023; 7th January 2024

Another entrance into site 0252 first noticed from inside the latter cave, located by subphones then excavated to provide an easier / closer entrance to a dig in 0252. easier / closer entrance to a dig in 0252 .
See site 0252 for more pictures and the detailed surveys.

In the summer 2018, a possible short pitch was found unnecessary when a nearby crawl reached the base. The draughting dig at the end was also excavated and thought to be well worth continuing.
Three trips in February 2020 working at the dig reached a rift and 15 m of easy passage. A drop down in the rift was enlarged and the open c30m pitch was dropped into a lower series in the summer
2021 .

The drop is split into three: p7, p27 to a boulder then p6 to a climb down to an area of avens. These must bring in a lot of water in wet weather. Downslope, the passage enlarges ( 5 m wide) at a T -junction then enters a tight, wet, draughting crawl which has been pushed with wetsuit hood. Upstream at the T-junction finishes at a wall of fill.

Part way down the first "Small Slam" pitch, a hole on the opposite wall requires investigation. The cave was pushed through the wet tight crawl in August 2022 and joined to the Four Valleys System in 2 places. A full description follows.

The system was re-rigged with stainless
steel bolts in April 2023. See Easter 2023 steel bolts in April 2023. See Easter 2023 superceded.

In the summer 2023 and subsequently, most of the trips used Decepción as a "back door" through to Hoyuca to further door"through to Hoyuca to further
investigate the Trident Passages area and investigate the Trident Passages area and
resurvey from Armageddon to Trident via resurvey from Armageddon to Trident via
Duckham's Sump. Extensions off Vienna Duckham's Sump. Extensior
Coup are mentioned below.

January 2024: Both Small Slam and Grand Slam pitches are detackled.

Site description: Diane Arthurs, James Carlisle and Simon Cornhill (September 2022; updated September 2023 JC)

\section*{Entrance Series}

The strongly draughting 4732 entrance to Torca la Decepción immediately passes a Torca la Decepcion down on the right leading to the original 0252 entrance. A short, flat ou section gains a fossil remnant chamber. A dugout section past a pile of stacked deads dugout section past a pile of stacked dea
leads to the head of a 35 m pitch Small leads to the head of a 35 m pitch Small
Slam. This starts off with a Y-hang in the top of a narrow, blasted rift. A few metres below, a single bolt rebelay drops to a ledge
over a 27 m shaft from which two bolts high over a 27 m shaft from which two bolts high
in the ceiling can be used for a Y-hang. The pitch lands in a rift and a further bolt around the corner can be used for a rebelay for the last 6 m or so. Six hangers and a 50 m rope is sufficient to descend the pitch

Following the rift downstream from the bottom of the pitch reaches a heavily calcited section blocking progress. The way on is at floor level through a low and tight section, the 322/1/6 Super Duck. This was originally half full of water, but was drained from the far side after being pushed for the first time. It is possible that wet weather may restore it to its former glory. In a wet may restore it to its former glory. In a wet spent digging the floor of the Super Duck,

MATIENZO UNDERGROUND - site descriptions (printed 19002/2024) \(\begin{gathered}\text { Volume } 6 \text { - page 17 }\end{gathered}\)

\section*{where a dribble "had been upgraded to
stream"} Beyond the 322/1/6 Super Duck is Stepping Stone Passage, a prolonged flat Eventually, the going eases as several aven Eventually, the going eases as several avens
are met. Here, the draughts reunite in a short tube with a notable draught, starti short tube with a notable draught, starting off with a crawl under a boulder in stream. Immediately beyond is an impressively decorated gallery ending at a 2 m climb down into a large chamber.

The chamber is dominated by a deep rift in the floor. This is the 35 m Grand Slam
pitch, rigged by traversing along the left. pitch, rigged by traversing along the left-
hand wall of the chamber behind straws. A hand wall of the chamber behind straws. A short traverse and Y -hang give a straight drop down the magnificent shaft, which can be rigged with a 50 m rope and 3 hangers. At the bottom of the pitch, a large stream passage, Vienna Coup, is met.

\section*{Upstream - BTM Series}

Upstream from the bottom of Grand Slam soon
179. 179
Right at station 179, straddling an inlet, West Passage can be followed for around 70 m passing an oxbow on the right to where following the water becomes torturous. A following the water becomes torturous. A
2 m climb up here enters a hands and knee 2 m climb up here enters a hands and knees
crawling passage for 25 m through a squeeze crawling passage for 25 m through
into a small grotto containing fine into a small grotto containing fine formations. A rift continues ending in an enlargement where the stream is met again Upstream under a calcite slope, flat out in the water 6 m ahead can be seen, but is too

Back in the main upstream passage at station 222 and heading into Mushroon Valley Way an oxbow on the left is the easiest route. After this a small inlet on the right soon opens up into a 12 m drippy aven. A boulder choke on the left wall is too tight, but a 2 m climb up a rift on the right leads to another aven and a hole down which drops into a trickle of water 2 m below with no way

Back in the main Mushroom Valley Way促 28 m aven. A 7 m climb up reaches a paralle 21 m aven.

MATIENZO UNDERGROUND site descriptions (rinted 1902/2024) Volume 6 - page 172

\title{
Downstream Vienna Coup
} Slam pitch, a large stream passage, Vienna
Coup is easy going with a strong draught, and can be followed for a couple of hundred metres until it turns sharply to the right at a calcited rift. A large space can be seen at calcited rift. A large space can be seen a
the top of the rift and the climb up looks the top of the rift and the climb up lool
relatively easy, assessed April 2023 as relatively easy, assessed April 2023 as
requiring gear. (There is an inlet on the righ requiring gear. (There is an inlet on the Vienna Coup which isn't marked on the survey.) At the end of July 2023, a bolt climb was made "just before the deep pool in Vienna Coup to reach a fairly large chamber 11 m up". There may be something another 11 m higher up, so a return with drill is required. Also in Vienna Coup, at station 41, an unnamed inlet was surveyed for 142 m in August 2023. This inlet described as being tight in places and very muddy with the best leads around the clean washed aven - "but there is nothing terribly obvious / exciting left." (See survey on 025 page.)

At the end of the rift, a 2 m climb down over a very deep pool gains a large chamber, The Griffins' Club. This section of the cave runs over the top of Shrimp Bone Inlet in Cueva Hoyuca, which is approximately 20 m below. A large passage approximately 20 m below. A large passa
at the north east of The Griffins' Club was entered in April 2023. This was pushed under an aven into a network of thrutchy under an aven into a network of thrutchy
tunnels eventually descending down a rift to a squeeze into the junction just before Hideous Hog. Technically, this is a short cut but practically, it's much easier the other way. This "short cut" was surveyed as batch
\(0252-23-02\), length 61 m . 252-23-02, length 61 m .
Beyond The Griffins' Club, the main streamway continues in fine style, passing
several side passages along the way. The several side passages along the way.
first of these is Intrafinesse Passage, entered by scaling a calcite slope on the left (see below for further details). The next side passage is a significant inlet on the right. This can be followed for 200 m to an extremely well decorated chamber, Hideous Hog. Halfway along passes through The Vice, a squeeze between stal. At the back o this chamber, an extremely dubious climb over overhanging boulders reaches a further chamber Crustacean Way with draughting chamber Crustacean Way with draughting
holes in the floor. By the lefthand wall an 8 m pitch can be rigged down the largest 8 m pitch can be rigged down the largest
hole off boulders using a large and medium hole off boulders using a large and me
sling with 15 m rope. This drops into a sling with 15 m rope. This drops into a
hading rift, a 2 m climb down a large hole at hading rift, a 2 m climb down a large hole at the bottom the pitch immediately
stream, which is Shrimpbone Inlet and the connection to Hoyuca. To the left and downstream is a pleasant 5 -minute walk to emerge into the impressive Rocky Horror in Hoyuca. the chamber is a climb up into a narrow streamway, which soon splits into smaller passages. Following the only passable way on eventually reaches a 15 m aven with an uninviting passage, The Trump Promotio Prevention Duck, leading from its base.
Back in the main Vienna Coup streamway, another (smaller) inlet enters soon afterwards from the same side. This was and, after 18 m , comes to a complete end in a small aven. Soon after this a mud bank fills the passage directly ahead. A slippy cills the passage directly ahead. A slipp
climb to the right here reaches The Bermuda Bowl, an awe-inspiring 90 m aven.

The main route on is to the left of the mud ank, which drops through a small tube back into the main stream, now with much reduced dimensions. Eventually, another
inlet enters on the right at a pool. This car inlet enters on the right at a pool. This can
be followed for 100 m or so to an aven at the be followed for 100 m or so to an aven at th top of a tricky climb up.
Beyond the junction, the main passage increases rapidly in size until a furth junction, Morton's Fork, is reached Upstream from Morton's Fork is Intrafinesse Passage, which soon narrows at stream level, necessitating a climb up onto wide sandy ledges above. Several small passages are passed on the right. These have not been forced to a conclusion. The main passage ends at a squeeze through stal with a howling draught, The Winkle, beyond which a climb down rejoins the main streamway at The Griffins.

Downstream from Morton's Fork continues as Rectifying The Count, a very wide as Rectifying The Count, a very wide beach. A climb up in this section reaches a beach. A climb up in this section reaches
large passage over boulders, which may large passage over boulders, n
require a rope to push further.

Rectifying The Count eventually ends where the stream sinks under a boulder choke. This is directly beneath Armageddon
in Hoyuca. A dug crawl, 20 m back on the in Hoyuca. A dug crawl, 20m back on the right in the passage, leads up into the boulder choke where an excavated hole (care) and a steep clamber up squeezing passage of Armageddon. Left up a short
MATIENZO UNDERGROUND - site descripions (printed 19/022/2024
Volume 6 - page 173
slope, under some massive boulders and

\section*{4733: shaf}

El Naso 30T 450627 4796809 (Datum: ETRS89 El Naso 30T 4506274796809 (Da
Accuracy code: G) Altitude 455 mabout 4 m down.
References: anon., 2018b (Easter logbook)
Entrance pictures. Entrance pictures Underground pictures
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Video :

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Detailed survey
Line Survey
On area survey
Survex file

\section*{4734: Recostón, El}

\section*{4735: shaft}

\section*{4736: shaf}

4737: shaft currently out of the Matienzo Caves Project
permit area, this 12 m deep shaft on a permit area, this 12 m deep shaft on a
faulted rift near a forestry track looks blind.
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References: anon., 2018b (Easter logbook)
Entrance pictures:

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Underground pictures
Underground pictu
Video :
Line Survey :
On area survey
On area surv
Survex file :
X
4738: shaft
Riva 30T 4544464793736 (Datum: ETRS89.
Accuracy code: G) Altitude 253 m
Area position
Found by Entomology Project members, and
currently out of the Matienzo Caves Project
permit area, this is described as "a pit".
References: anon., 2018b (Easter logbook)
Entrance pictures:
Underground pictures
Video :
Detailed survey
Line Survey
On area surve
Survex fils
X
4739: sink
La Secada 30T 4528314798012 (Datum: ETRS89.
La Secada 30T 4528314798012
Accuracy code: A) Altitude 174 m
Accuracy cod
Depth \(2 m\)
Area position
Depth 2 m
Area position

A wet weather stream that comes down the valley to the north of the "Mushroom Field" splits and finally sinks in at least 2 places. Both stream courses appear very modern and possibly the result of upstream ink blockages.
This is the eastern sink, the western sink being over an area 50 m to the west (site 773). There is a small collapse area in trees a few metres to the north of the eastern sink. (See \(360^{\circ}\) aerial photo - 0351 jc-2018e-stitch-A, dated 17/4/2018 on this page.)

References: anon., 2018b (Easter logbook) Entrance pictures : April 2018:360º aerial photo -0351-jc-2018e-stitch-A, dated 17/4/2018 on this page Underground pictures
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Video :

```
Detailed survey
Line Survey
On area surve
Survex file :
X
4740: shaft
La Secada 30T 4527564798025 (Datum: ETRS89.
La Secada 30 g) Altitude 173 m
Accuracy code: G)
Length 3 m Depth 6 m
Area position

A 3 m deep rift that narrows to 12 cm . It needs a lump hammer to reach the 3 m deep, wider rift beyond.
References: anon., 2018b (Easter logbook)
Entrance pictures : April 2018
Underground pictures:
Entrance pictures: Ap
Undergroun
Video: :
Detailed sur
Detailed surve
Line Survey:
Line Survey :
On area surve
X
4741: depression
4741: depression
La Secada 30T 4527224798013 (
Accuracy code: G) Altitude 172 m
Accuracy C
Depth 3 m
Depth \(3 m\)
Area position

A 3m deep depression to a soil choke with a half-metre diameter boulder.

References: anon., 2018b (Easter logbook)
Entrance pictures : April 2018 Entrance pictures : April 2018 Undergr
Video:
Detailed survey Line Survey : On area surve
Survex file Survex file

4743: cave
La Secada 30T 4527314798022 (Datum: ETRS8 La Secada 30T 4527314798022 ( Accuracy code: G) Alti
Length 2 m Depth 2 m Length \(2 \mathrm{~m} \mathbf{D}\)
Area position

A small entrance with branches propped up A small entrance with branches propped up in front. A 2 m deep hole with debris pos
falling down below the choked floor. No falling down below the choked floor. No draught.

\section*{References: anon., 2018b (Easter logbook) Entrance pictures : April 2018} Underground pictures
Video :
Detailed survey ne Survey On area sur Survex file

\section*{4744: shaf}

La Secada 3074527074798021 (Datum: ETRS89 Accuracy code: G) Altitude 175m Length 15 m Depth 9 m Area position

This shaft entrance is at a prominent sandstone outcrop. The body-size shaf drops 6 m to a saddle. to the north 3 m down is choked by sandstone blocks; to the south the floor is gravel

References: anon., 2018b (Easter logbook) Entrance pictures : April 2018
```

Underground pictures

```
Video :
Video :
Detailed survey : elevation sketch
Line Survey :
On area survey
On area sur
Survex file

4745: shaf
La Secada 30T 452685 4798031 (Datum: ETRS8 La Secada 30T 4526854798031 Accuracy code: G) Altitu
Length 10 m Depth 8 m Area position

A p6 is followed by a 2 m climb down in cross rift to the west. After a couple of cross rift to the west. After a couple of
metres a 4-way junction is met: left anc metres a 4-way junction is met: left and
ahead are too small; a dig to the right has an enlargement beyond

References: anon., 2018b (Easter logbook)
Entrance pictures : April 2018 Underground pictures
Video:
Detailed survey
Survey
On area survey
```

Survex file

```

4746: hole
La Secada 30T 4528424797820 (Datum: ETRS8 Accuracy code: G) Altitude 174 m Depth 2 r Area positior

A 2 m deep, \(30 \times 30 \mathrm{~cm}\) hole.
References: anon., 2018b (Easter logbook) Entrance pictures : April 2018 Underground pictures
Video
Detailed sur Line Survey
On area sur On area surv
Survex file :
```

Length 2mm

```
A hole under a small cliff on the opposite side of the depression from sites 4654 and 4655. A flake has been removed and more work is required. (Ref: 8A)

References: anon., 2018b (Easter logbook)
Entrance pictures : April 2018 Video:
Detailed survey Line Survey On area surve Survex file

\section*{X}

\section*{4749: resurgence}

Hornedo 30T 4479614801518 (Datum: ETRS89. Accuracy code: G) Altitude 64 m

\section*{Area position}

A resurgence under a slab as part of a private dwelling. No chance of further progress. (Ref: 8B)

References: anon., 2018b (Easter logbook) Entrance pictures Underground pictures : Video:
Detailed survey
Line Survey Line Survey On area sury
Survex file :
x
4750: cave
Alisas 30T 4468474794789 (Datum: ETRS89,
Accuracy code: G) Altitude 630 m
Length 3 m Depth 2 m
Area position
Updated 6th June 2018
A \(2 m\) deep hole under a cliff face which slopes down with no way on. (Ref: 12A)

References: anon., 2018b (Easter logbook)
Entrance pictures : April 2018 Entrance pictures : April 2018 Underg
Video:
Detailed Detailed surve
Line Survey: Line Survey :
Survex file :
x
\(\frac{4751: \text { Shaft }}{\text { Alisas } 30 T 446838}\)
Alisas 30 T 4468384794800 (Datum: ETRS89. Accuracy code: G) Altitude 626 m
Length 3 m Depth 3 m Length 3m Depth 3m

Updated 6th June 2018
A 3 m deep rift under a small cliff. (Ref: 12B)
```

References: anon., 2018b (Easter logbook)
Underground pictures
Video:
Detailed survey
On Survey:
Survex file :
x
4752: shaft
Alisas 30T 447004 4794676 (Datum: ETRS89.
Accuracy code: G) Altitude 645m
Length 6m Depth 6m
Area position
A 6m deep, choked shaft. (Ref: 12C)
References: anon., 2018b (Easter logbook)
References: anon.,
Underground pictures
Video:
Detailed survey
Line Survey
On area surve
X
4753: cave
Alisas 30T 4471484794714 (Datum: ETRS89,
Alisas 30T 4471484794714 (Datur
Accuracy cod
Area position

```
A \(2 m\) long cave with no way on. (Ref: 14A)
References: anon., 2018b (Easter logbook)
References: anon., 2018b (Eas
Entrance picture: April 2018
Underground pictures :
Undergro
Video:
Detailed surve
Line Survey :
On area surve
On area surve
Survex file :
x
4754: sink
Alisas 30T 4471764794766 (Datum: ETRS89.
Accuracy code: G) Altitude 580 m
Accuracy c
Length 3n
Area positi
MATIENZO UND

\section*{A wet
108}

References: anon., 2018b (Easter logbook) References: anon., 2018b (East
Entrance pictures : April 2018 Underground pictures : Video :

\section*{4755: shaft}

Alisas 30T 4469914794753 (Datum: ETRS89 Alisas 30 T 4469914794753 (Datı
Accuracy code: G) Altitude 618 m

This 6 m deep shaft at the base of a 2 m climbable cliff is too narrow. (Ref: 14C)

\section*{References: anon.
Entrance pictures} Entan
Underground pic
Video:
Detailed survey
Line Survey :
On area survey
Survex file

\section*{4756: shaf}

Alisas 30 T 4470834794843 (Datum: ETRS89. Accuracy code: G) Altitude 581 m

\section*{Length 3 m Depth 3 m}

\section*{ar}

A 3 m choked shaft under large boulders (Ref: 14D)

References: anon., 2018b (Easter logbook) Entrance pictures : April 2018 Underground pictures:
Video
Detailed surv
Line Survey:
On area surv
Survex file:

Updated 25th July 2019
A very narrow 2 m deep rift in the base of a depression at the edge of the wood. (Ref: 14 E ). In June 2019, it was noted that this was not site 4981 .

\section*{4758: sink}

Hornedo 30T 4483914801894 (Datum: ETRS89. Accuracy code: G) Altitude 119 m Area position

\section*{Updated 12th December 2018}

A large stream sink below a 2 m sandstone waterfall. The pool drains into a low, tight passage. In drier weather, the outlet wa seen to be very small so any work here would take a substantial effort. (Ref: 15A). Some work was carried out in September 2018 when water levels were low. The left hand side was dug to form a flat-out crawl under an overhang. A small chamber is reached followed by a descent to anothe slightly larger chamber then a flat-out squeeze into a chamber about 7 m long 1.5 m high and about a metre wide. Holes in the floor can be descended but choke. The cave consists of a series of inverse steps with the other side rubble. It is "not worth the effort of digging".

References: anon., 2018b (Easter logbook); anon., 2018d (autumn logbook)
Entrance pictures : April 2018

\section*{4759: cave}

Barrio de Arriba 30T 4451054799602 (Datum: ETRS89. Accuracy code: G) Altitude 187 m Length 87 m
Area position

MATIENZO UNDERG
Volume 6 - page 178

Updated 12th December 2018
This site was found as a walk-down boulder slope to a choked outlet full of branches Debris has been removed and there is a good draught. (Ref: 16A)

Work continued in September and a long, low chamber entered. At the far end a \(2 m\) low chamber entered. At the far end a 2 d descent enters a larger chamber in the
middle of which is a deep rift at right angle middle of which is a deep rift at right ang The top of the rift was enlarged to allow entry to a fine 22 m deep shaft ending on a solid floor. A further short pitch and climb ( 8 m in total) ends at a solid floor with no way on - only small cracks in solid rock.

References: anon., 2018b (Easter logbook); anon. 2018d (autumn logbook)
Entrance pictures: April 2018
nderground pictures
```

ideo:

```

Detailed surve
Line Survey :
On area surv
Survex file : September 2018

\section*{x}

4760: shaft
Barrio de Arriba 30T 4451134799664 (Datum: ETRS89. Accuracy code: G) Altitude 207 m Length 4 m Depth 4 m

\section*{Area position}

A 3.5 m deep \(1 \times 3 \mathrm{~m}\) rift. (Ref: 16B)
References: anon., 2018b (Easter logbook) References: anon., 2018b (Ea
Entrance picture: April 2018 Underground pictures Video :
Detailed survey Line Survey On area surve
Survex file :
x
4761: shaft
Barrio de Arriba 30 T 4451394799630 (Datum Barrio de Arriba 30 T 4451394799630 (Da
ETRS89. Accuracy code: G) Altitude 201 m Length 6 m Depth 6 m Area position

A \(6 m\) deep choked shaft in a brush-filled depression. (Ref: 19A)

References: anon., 2018b (Easter logbook) Entrance pictures :

\section*{Video :}

Detailed survey Line Survey On area surve Survex file

X
4762: shaft
Barrio de Arriba 30T 4451304799614 (Datum ETRS89. Accuracy code: G) Altitude 197m Area position

Twin drops under a limestone face need enlarging. (Ref: 19B)
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References: anun.,
Underground pictures
Video :
Detailed survey
Line Survey
Survex file :
X

```

\section*{4763: shaft}
```

Alisas 30T 4470254794755 (Datum: ETRS89 Accuracy code: G) Altitude 617m Length 10 m Depth 7 m Area position
Updated 27th May 2019
Below the grid referenced spot there is a 20 m cliff with a 5 m deep shaft and "chink" at the base that requires further investigation. (Ref: 19C)
This explored in April 2019 as a 4 m ladder descent to boulders, with a further 2 m climb down behind the ladder. The opposite side has a climb down of 3 m to the floor No has a climb down of 3 m to the floor. No ways on.
References: anon., 2018b (Easter logbook); anon. 2019b (Easter logbook) Entrance pictures

```

\section*{Video :}
```

Detailed survey
Line Survey
On area surve
Survex file :
x
4764: shaft
Alisas 30T 447009 4794737 (Datum: ETRS89 Accuracy code: G) Altitude 623 m

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\section*{Depth 2 m \\ Area position}

MATIENZO UNDERGROUND - site descriptions (printed 19002/202
inear feature with an undescended hole at least \(2 m\) deep. (Ref: 19D)

References: anon., 2018b (Easter logbook)
References: anon.,
Entrance pictures :
Entrance pictures:
Underground pictures
Video :
Detailed survey Line Survey On area survey Survex file

\section*{4765: shafts-3}

\section*{} Accuracy code: G) Altitude 618 m

Three undescended shafts in a shakehole which probably connect \(4-5 \mathrm{~m}\) down. Some digging is required. (Ref: 19E)

\section*{References: anon., 2018b (Easter logbook) Entrance pictures}
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Underground picture

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

\section*{4766: cave}

Las Calzadillas 30T 4475624795041 (Datum: ETRS89. Accuracy code: G) Altitude 480 m Length 6 m Depth 10 m Area position

\section*{Updated 12th December 2018}

A small hole under a tree enters a 6 m slope to a pitch head estimated at 7 m deep but stones may go further. There is a slight draught. (Ref: 20A).

When this site was reinvestigated ir September 2018, the bottom could not be September 2018, the bottom could not be reached, the 50 ft ladder being short by 15 ft from reaching the final chamber
Video
Detailed survey
Line Surve
On area sur
Survex file

\section*{4767: dig}

Las Calzadillas 30T 4475324795062 (Datum: ETRS89. Accuracy code: G) Altitude 468 m Length 12 m Depth 6 m

Updated 12th December 2018
A small, strongly draughting hole in a depression which is a serious dig. (Ref 20B). Work started in October when a descent of about 6 m was opened up to roomy crawl going under the adjacent depression. The strong draught comes from a narrow, descending boulder slope which is too tight and would require a massive effort to dig.

References: anon., 2018b (Easter logbook); anon., References: anon., 2018b (Easter logbod
2018d (autumn logbook)
Entrance picture : April \& October 2018

\section*{4769: shaft}

Las Calzadillas 30T 4472844795066 (Datum: ETRS89. Accuracy code: G) Altitude 505 Area position

Updated 25th July 2019

MATIENZO UNDERG
Volume 6 - page 180

A 7.5 m deep choked shaft in boulders, seen
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ag

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References: anon., 2018b (Easter logbook); anon.,
2019c (Whit logbook)
2019c (Whit logbook)
Entrance pictures : April 2018
Entrance pictures : April
Undergr
Video :
Detailed survey
Line Survey
On area survey :
Survex file
X
4770: shaft
Las Calzadillas 30 T 4473894795082 (Datum:
Las Calzadillas 30 T 4473894795082 (Datun
ETRS89. Accuracy code: G) Altitude 495 m
ETRS89. Accuracy code:
Length 7 m Depth 7 m
Length 7m De
Area position
A choked 7m deep shaft.
References: anon., 2018b (Easter logbook)
Entrance picture : April 2018
Entrance picture : April
Video:
Video:
Detailed survey :
Letailed sur
On area survey
Survex file :
x

4771: shaft
Las Calzadillas 30 T 4474264795051 (Datum:
ETRS89. Accuracy code: G) Altitude 494 m ETRS89. Accuracy code: G) Altitude 494 m Length 10 m Depth 8 m Area position

\section*{Updated 25th July 2019}

The opening was enlarged with both hammer and chisel and then a snapper in June 2019. An 8 m descent in a rift to a floor of boulders, earth and leaves. To one side a visible 3 m drop in a narrow cleft needs work to get down it. Stones rattle down the cleft for two or three seconds but it sounds as if there is no increase in width.

References: anon., 2018b (Easter logbook); anon., References: anon.,
2019c (Whit logbook) Entrance pictures : April 2018 Underground pictures : Video:
Detailed surv
Line Survey :
On area surve
Survex file :
Survex fil
X

4772: Sima Grande de Las
Calzadillas, La
Las Calzadillas 30T 447404 4795092 (Datum:
ETRS89. Accuracy code: G) Altitude 492 m Las Calzadillas 30 T 4474044795092 (Datu
ETRS89. Accuracy code: G) Altitude 492 m
Length 98 m Depth 39 m Area position

Updated 27th May 2019; 10th February
2020 2020
A p25 in a 20 m long shaft chokes.
Further exploration was carried out in the autumn of 2018 when a chimney in one corner was descended to a parallel shaft that was opened up after several hours work then descended 4 m to a draughting constriction. Work continued in May and June 2019 when the constriction was eventually opened up allowing a p20 to de dropped to a small chamber with the draught coming from a rock-choked rift under one wall.

References: anon., 2018b (Easter logbook); anon. 2019b (Easter logbook); anon., 2020a (January, February logbook)
Entrance pictures Underground pictur : April \& autumn 2018 2019 : Spring 2019 : autumn这 Video : Exploration, Easter 2018 (YouTube)
Detailed survey : plan, January 2020 Detailed survey : plan, January 2020 Line Survey On area survey :
Survex file : January 2020
X
4773: sink
4773: Sink
La Secada 30T 4527854798023 (Datum: ETRS89. Accuracy code: M) Altitude 170 m Accuracy cod
Area position

A wet weather stream that comes down the valley to the north of the "Mushroom the valley to the north of the "Mushroom
Field" splits and finally sinks in at least 2 Field" splits and finally sinks in at least 2
places. Both stream courses appear very places. Both stream courses appear very
modern and possibly the result of upstream modern and possibly the result of upstream
sink blockages. This is the we
This is the western sink, the eastern sink being over an area 50 m to the east (site 4739). Most of the water in this west sink,
appears to soak away through small appears to soak away through small depressions and the soil. (See \(360^{\circ}\) aerial photo-0351-jc-2018e-stitch-A, dated 17/4/2018 on this page.) References: anon., 2018b (Easter logbook)
Entrance pictures : \(360^{\circ}\) aerial photo - 0351 -jcMATIENZO UNDERGROUND - site descriptions (printed 19/02/2024
Volume 6 - page 181

2018e-stitch-A, dated \(17 / 4 / 2018\) on this page
Underground pictures: Undergr
Video :

\section*{4774: Buena Suerte, Cueva} Riva 30 T 4547464793679 (Datum: ETRS89 Riva 30 T 454746
Accuracy code: G) Altitude 310 m Accuracy code: G) Altitud
Length 174 m Depth 9 m Area position

A cave opened up on land south of Cruz Usaño and explored, surveyed and extended with the permission of the land owner The excavated entrance drops straight The excavated entrance drops straight into a decorated chamber. The only exit is down a passage up to 4 m wide and 5 m high - an old phreatic route. The passage closes up a roped 4 m climb on the north wall. A up a roped 4 m climb on the north wall. A low crawl enters a chamber with a collapsed middle and a low passage that swings back to link in near the top of the climb.
The wide, sand-floored route out of the chamber was excavated and, after passing under an "airbell", reaches a higher sectior then closes in at a solid calcite blockage after about 40 m . This Galería del Gato has many cat prints. Some digging has been carried out in a side passage at the start of the Galería.

References: anon., 2018c (summer logbook) References: anon., 2018 C (su
Entrance picture : July 2018

Below the track from Tocornal to Colorado, in the moor just above a large stone wall. A in the moor just above a large stone wall
9 m deep, choked shaft with an old fence 9 m deep,
around it.

References: anon., 2018c (summer logbook);
Simonnot G, 2018; Simonnot G, 2022 Simonnot G, 2018; Simonnot G, 2022 Entrance picture : June 2018
Underground pictures
Video :
Detailed survey
Line Survey
On area survey
On area su
Survex file

4776: shaft (2653 (French:
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Underg
Detailed surve
Line Survey
On area survey

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Survex file :
X
4778: Chocardos, Torca de los
(2666 (French: SCD))
Arredondo 30T 4487374793338 (Datum: ETRS89
Accuracy code: G) Altitude 603 m
Length 40 m Depth 20 m
Area position

Updated 19th November 2022
The information below has been roughly translated from the French, Spéléo-Club Dijon reference, Simonnot G, 2018.

A very large entrance, established on a fracture, gives access by a descent of 7 to 8 m to a vast room ( \(20 \times 15 \mathrm{~m}\) ) where arrive from the overlying lapiaz two pitches of 15 and 20 m approximately.
Old concretions dot the cavity where unfortunately no follow-up is detectable. References: anon., 2018c (summer logbook);
Simonnot G, 2018; Simonnot G, 2022
Entrance pictures: June 2018 Entrance pictures : June 2018 Underground pictures Video:
Detailed survey Line Survey Survex file X
4779: shaft
S Vega 30T 4522334794943 (Datum: ETRS89 Accuracy code: G) Altitude 390 m Length 4 m Depth 4 m Area position

A rift fenced with 5 posts. Twin entrances, one sloping, one vertical, to a circular chamber.

References: anon., 2018c (summer logbook) References: anon., 2018c (sum
Entrance pictures: July 2018 Underground pictures : July 2018 Video :
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Detailed sur Line Survey:

``` ine Survey : On area survey :
Survex file : July 2018
X
4780: cave
S Vega 30T 452270 4794903 (Datum: ETRS89
S Vega 30T 4522704794903 (Dat
Accuracy code: G) Altitude 400 m
Length \(3 m\)
Area position

A cave below a sandstone band. Dig required to open up a crawl to "where it is just big enough"

References: anon., 2018c (summer logbook)
Entrance pictures : July 2018 Entrance pictures: July 2018 Underground pictures Video : Line Survey : On area surve Survex file :
x
4781: shaft
Riolastras 30T 4550264802836 (Datum: ETRS89. Accuracy code: G) Altitude 201m
Depth 3m
Area position
A depression just over an electric fence into jungle with rift shaft aboput 3 m deep and undescended. It appears to open out at the bottom with a flat floor. There appears to be a slight draught.
```

References: anon., 2018c (summer logbook)
References: anon., 2018c (sum
Entrance pictures: July
Underg
Detailed survey
Line Survey
On area survey
Survex fil
X
4782: shaft
M782: Shaft
Ozana 30T 453661 4794534 (Datu
Length 15m Depth 9m
Area position
An open shaft in a thicket almost straight up the hill from Jivero 1 . The shaft is 7 m deep to a floor of jammed boulders and, after passing through a narrow rift with dangerous poised boulders, a small $2 m$ aven chamber with a choked boulder floor is reached.

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References: anon., 2018c (summer logbook)
Entrance pictures : August 2018
MATIENZO UNDERGROUND - site descriptions (printed 19102/2024
Volume 6- page 183
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\begin{array} { l } { \text { Undergr } } \\ { \text { Video: } } \\ { \text { Detailed } } \end{array}
$$
Detailed survey
Line Survey :
On area survey

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Survex file
4783: shaft
4783: Shaft
Ozana 30T 4537004794532 (Dat
Accuracy code: M) Altitude 282 m
Accuracy co
Depth 2 m
Depth 2 m
Area position
(Estimated grid reference. : about 40m
(Estimated grid
A small fenced shaft covered with logs and
A small fenced shaft covered with logs and
about 2 m deep. Undescended.
References: anon., 2018c (summer logbook)
Entrance pictures :
Underground pictures
Underground pictu
Video :
Detailed survey
Line Survey
On area survey
Survex file

\section*{4784: cave}

El Naso 30 T 4514174796014 (Datum: ETRS89 Accuracy code: G) Altitude 188 m

\section*{Length 4m D}

A \(1 \times 0.5 \mathrm{~m}\) entrance behind an oak tree slopes down to a T -junction after about 4 m There is a good draught in hot weather and it needs digging. (Not in summer, 2018 logbook)
References.
Entrance picture : August 2018

4785: cave
La Secada 30T 4530294797277 (Datum: ETRS89. La Secada 30T 4530294797277 (D
Accuracy code: G) Altitude 249 m
Accuraty coc
Length 5 m
Length 5 m
Area position

A cave under a rock shelf with a crawl into a small chamber with no draught

References: anon., 2018c (summer logbook)
References: anon., 2018c (summ
Entrance picture : August 2018
Entrance picture: Augu
Underground pictures :

4786: shaft
La Secada 30T 4531894797508 (Datum: ETRS89 Accuracy code: G) Altitude 195 m
Length 3m Depth 3 m
Area position
A shaft entrance on a bench, about 3 m deep and a possible dig.

\section*{References: anon., 2018c (summer logbook) Entrance picture: August 2018} Underground pictures :
On area su
Survex file
Survex file

4787: shaft
Moncobe 30T 4456454795840 (Datum: ETRS89. Accuracy code: M) Altitude 510 m Length 7 m Depth 5 m Area position

The grid reference is a complete guess. The shaft was found "close to site 2495 " and is 5 m deep to a 1.71 m lens shape. A gentle draught comes from the choked narrow end on the valley side

References: anon., 2018d (autumn logbook) Entrance pictures
Video
Detailed survey
Line Survey
On area survey
Survex file

4788: shaft
Fresnedo 30T 4533144801142 (Datum: ETRS89 Accuracy code: G) Altitude 159 m

\section*{Area position} Volume 6 - page 184

> The overflow from a bathtub sinks in a nearby, vegetated depression which has not been investigated.

References: anon., 2018c (summer logbook) References: anon., 2018c (summ
Entrance picture : August 2018 Entrance picture : Augus
Underground pictures : Video: Detailed sur
Line Survey On area surve Survex file

X
4789: shaft
Coterón las Llanas 30T 4510004798947 (Datum: ETRS89. Accuracy code: G) Altitude 470 m Length 9 m Depth 3 m Area position

First spotted on an aerial video, this is an open 6 m long, 3 m deep rift with plenty of patation. The base is full of loose boulders and there is a small tube/rift off on the south side.
```

References: anon., 2018c (summer logbook)
References: anon., 2018c (summ
Underground pictures
Video : drone flight 2018 (YouTube)
Video : drone fligh
Detailed surve
Line Survey
Survex file :
X
4790: rift
Fresnedo 30T 452626 4801018 (Datum: ETRS89.
Accuracy code: G) Altitude 241m
Area position

```

A draughtless rift in a rock outcrop.
```

References: anon., 2018c (summer logbook)

```
Entrance picture: : August 2018
Underground pictures
Video:
Detailed survey
Line Survey
On area survey :
Survex file
X
4791: Disto, Cueva del
S Vega 30T 4522474794856 (Datum: ETRS89
Accuracy code: G) Altitude 424 m
Accuracy code:
Length 22 m
Updated 21st September 2019

Dropping down 1.8 m through a small, draughting-in entrance lands in a small, standing-height chamber. The walls are covered in shell fossils. The cave close down into an enlarged flat-out crawl. Beyond is a small chamber with a circular pit in the floor with a continuing hole below. Beyond the pit and to the right, the cave closes down. At the end of the summer, there was still a Disto down the final hole (just visible) where it had been dislodged after surveying.

References: anon., 2018c (summer logbook); References: anon., 2018c (sumr
anon., 2019d (summer logbook) Entrance pictures : August 2018
Underground pictures: August 201 Underground pictures : August 201 Video:
Detailed survey : August 2018/19
Line Survey
On area survey :
Survex file : August 2018
X
4792: hole
S Vega 30T 452253 4794885 (Datum: ETRS89.
Accuracy code: G) Altitude 411m
Length 2 m Depth 1 m
Area position
A 30 cm diameter hole to a choke.
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References: anon., 2018c (summer logbook)
Entrance pictures:Aug
Underg:
Detailed survey
Line Survey
On area survey :
x
4793: cave
S Vega 30T 452264 4794902 (Datum: ETRS89
S Vega 30T 452264 4794902 (Dat
Accuracy code: G) Altitude 402m
Area position
Updated 21st September 2019
There are two horizontal entrances in close proximity. This, eastern, entrance is about 3 m to the back wall on a $173^{\circ}$ bearing. (The other site is 4794)
References: anon., 2018c (summer logbook);
anon., 2019d (summer logbook) MATIENZO UNDERGROUND

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escripions (printed 190021202
Volume 6 - page 185

\section*{Undergro pictures: Aug}

\section*{4794: cave}

\section*{4796: depression}

4799: shat S Vega 30T 4522434794966 (Datum: ETRS89 Accuracy code: G) Altitude 378 m Length 2 m Depth 2 m Area position

A \(2 m\) deep small shaft entrance with very slight draught

References: anon., 2018c (summer logbook) References: anon., 2018c (summ Entrance pictures : Aug Video Detailed survey Line Survey On area curve Survex file :

X
4800: cave
La Rasa 30T 4488734793960 (Datum: ETRS89. Accuracy code: G) Altitude 525 m Length 3 m Area position

A small cave in thinly bedded limestone The entrance needs digging out for a small person to explored a crawl. There is a second hole just to the right.

References: anon., 2018c (summer logbook) Entrance pictures : August 2018 Underground pictures Video :
Detailed survey Line Survey On area survey
Survex file : X
\(=\) END of VOLUME 6```

