

INDEX

MATIENZO: 50 YEARS OF SPELEOLOGY

Available from www.geography.lancs.ac.uk/Matienzo/history/50years/book-index.pdf

Major sections are included for accidents, archaeology, clothing & equipment for caving, diving, environmental issues, Matienzo, recording & documenting and rescue. In many cases only a person's name in the green header box for each year is indexed. Occurrences of the individual's name may well be seen elsewhere in that year - but not indexed.



77A, Cueva 42, 124, 132, 257

- sump index entry 257
- survey 125

A

AA.EE.T-Valls 100

A Alfonso 241

Abby P 137

Abby Rhodes 201

ABI, Cueva de 32

Abono, Cueva del 11, 12, 17, 52, 105, 135, 298

- 4my old 135

accidents. *See also* rescue

- at Risco, 1979 54
- Azpilicueta - Giles Barker fatal fall 105, 107–108
- Cantones - slip off ledge 1991 102
- Cobadal - cut hand 175
- contaminated diving air 252
- Cueto-Coventosa (Swiss caver) 76
- Diente belay failure 136
- fall in Cantones - 5hr crawl out 103
- French diver at Rasines 73
- Fresnedo 2 - belay failure 111
- Hoyuca - 8m fall from roof 1991 104
- Hoyuca - Alan Box fatal fall 115
- Hoyuca slip off mud 1984 72
- Llueva - belay failure 202
- Mostajo ladder belay failure 1984 74
- Papá Noel - boulder on head at entrance 146
- Piedrashitas - boulder surfing 218
- Reñada - Breakdown Chamber fall down boulders 124, 126
- Vallina - rope pulled up 129
- Volcano - filing in eye; pole on toe 192

ACPDS 182

Adam Sharples 215

Adam Spillane 120, 134, 215

Adam Taylor 105, 113

Adam Walmsley 222

ADCC 182, 306

Adillos, Cueva de 303

Adolfo Alguero Caballe 113, 134, 162

Adrian Paniwnyk 102, 113

AEC Lobetum 39, 134, 306

AER 87, 287, 306

aerial photos 22, 265

A Greenwood 72

Agua, Cueva del 3, 11, 12, 13, 16, 17, 20, 26, 32, 36, 88, 101, 109, 127, 134, 143, 165, 169, 188, 191, 196, 197, 203, 241, 242, 255, 256, 258, 260, 291, 299

- Gour sump dive 255
- sump index entry 260

Aidy ? 175

AI ? 55

Alan ? 72, 80

Alan 'Boxhead' Box 105, 113

- fatal accident in Hoyuca 115

Alan Cawthorne 170

Alan Jennings 102, 105

Alanna Sandys 166

Alan Rayner 66

Alan Rumsey 20

Alan 'Starkers' Martin 29

Alan Trevarathen 42

Alan 'Whale' Hale 22, 29

Alasdair 'Ali' Neill 88, 96, 102, 109, 113, 120, 123, 124, 127, 128, 133, 134, 138, 145, 148, 152, 155, 160, 162, 166, 170, 175, 178, 182, 184, 185, 189, 192, 198, 201, 206, 210, 215, 222

Albert (Catalan) 155, 162

Alberto Alfonso 13, 241, 258

Albian 271, 272, 274, 280, 281, 290, 292

Alcotours 43

Aldos 'Italian 1' ? 75

Alectryonia sp. 275

Alex Burton-Johnson 206, 208

Alex (Catalan) 133, 162, 170

Alex Ritchie 222

Alf Latham 214

Alfonso Pintó 11, 12, 14, 16, 17, 22, 265, 303

Alfredo del Río 20, 30, 33, 37

Alice ? 29

Ali Mortazavi 222, 225, 226

Ali Neill 228

Alisas 1, 3, 17, 19, 55, 78, 89, 90, 91, 122, 125, 163, 174, 175, 180, 181, 184, 185, 190, 193, 197, 234, 238, 240, 244, 250, 271, 276, 278, 280, 283, 287, 288, 291, 293, 306

Alison? 'Ally' ? 124

Alister Smith 215, 221

Alíx Serna 101

Allan Berry 124, 201, 302

Allan Tucker 102

Alpine Chough Pot 11, 42, 43, 86, 89, 102, 105, 131, 132, 196, 201, 306

- 1992 extensions 105

- Dead Choughed Series 132

- first exploration 42

Alpine orogeny 284

Altamira, Cueva de 19, 21, 299, 300, 304

Alto de Collada 200, 238

Amanda Morgan 214

Amieva 18, 19, 29

ammonite 197

Amy ? (LUPC) 145

Andando, Torca 88, 101, 193, 201, 204, 205, 213

Anderal I 16

Anderal II 14, 16

Andrés, Sima del 11

Andreu (Catalan) 134, 155, 170

Andrew 'Andy D' Davis 67

Andrew Atkinson 106, 113, 175, 176

Andrew Davison 102

Andrew 'Dingle 2' Latimer 206, 210, 222

Andrew Taylor 55, 63

Andrew 'Worm' Jones 29, 39, 42, 47, 53, 55, 63, 80, 105, 124, 155, 174, 197

Andy 'Andy Astra' Gower 96, 105

Andy Astra. *See* Andy 'Andy Astra' Gower

Andy Bennett 96, 97

Andy Cowper 29, 34, 55

Andy D. *See* Andrew 'Andy D' Davis

Andy Finch 22, 26, 29, 32, 33, 34, 39, 42, 53

Andy Hall 77, 80, 81, 82, 84, 85, 88, 96, 105, 107

Andy Herries 145, 152

Andy Ive 113, 114

Andy Kendall 166

Andy Morse 166, 184, 189, 190, 191, 198, 199, 201, 203

Andy Pringle 6, 101, 102, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 120, 122, 127, 128, 131, 132, 133, 134, 138, 144, 145, 152, 154, 155, 157, 160, 162, 163, 164, 166, 167, 168, 169, 170, 172, 175, 178, 180, 181, 182, 184, 185, 186, 189, 191, 192, 193, 195, 197, 198, 199, 201, 204, 206, 208, 209, 210, 212, 215, 216, 227, 230

Andy Quin 6, 63, 66, 67, 68, 72, 74, 75, 78, 102, 103, 105, 106, 109, 110, 112, 113, 114, 120, 124, 127, 128, 132, 133, 134, 136, 137, 138, 143, 145, 146, 147, 148, 152, 155, 156, 160, 162, 170, 171, 173, 174, 185, 189, 192, 197, 198, 201, 210, 213, 222, 291

Andy Scott 72

Andy Seton 102, 103, 105, 106, 113

Andy Sparrow 166, 206, 207, 208

Andy Sweetman 55, 102, 106, 107

Andy Walsh 215, 216

Angela Hare 109, 112, 120, 124, 138, 145, 148, 152

Angie Mckinnell 88

Anita McNab 160, 166

Ann ? 72

Annabelle ? 175

Anna-Belle Petersen 189, 219, 220

Anne ? 102

Anne Corrie 18

Anne Hardcastle 53

Anne Robertson 96, 112

Annie Wakeham 128, 133

Ann Lowe 55, 63

Ann-Marie ? 55

Anthony 'Prof' Profit 155, 165, 170, 192, 210

anticline 267, 282, 283, 284, 285, 292, 293

- Arredondo anticline 267, 282, 284

- Matienzo anticline 267, 282, 284

- Antonio Begines** 265
Antonio Santander Setién “del Pontón” 12
Antonio “Tonio el del Portón” 13
An Vanderplank 189, 191, 192
Aptian 266, 271, 272, 274, 278, 280, 281, 284, 288, 290, 292
- archaeology**
ammunition 43, 136, 164, 206, 302
antler 49, 197, 301
archaeologist 11, 12, 100, 113, 149, 165, 183, 196, 203, 210, 239, 299, 302
early visits 11
Argaric 33
arrow heads 300
Aurignacian 11, 299
barley grains 165
beaker from Vallina 100
photo 100
bear bone 202
bear skeleton 16
bone breccia 127, 149, 196
bones 206
bone with cut marks 205
Bronze Age 33, 96, 100, 128, 136, 137, 153, 156, 158, 159, 166, 183, 187, 197, 199, 200, 298, 300, 303
sword 33, 299
bronze plaque 300
burial 11, 136, 200, 300, 301, 302, 303
carbon dating 114, 213, 214, 299, 300, 302
cave art 11, 50, 93, 190, 299, 302, 303, 304
red paintings 299
schematic-abstract 302, 303, 304
caves near Badames 182
cereal 11, 213, 302
Cervus megaceros in Risco 49
Chalcolithic 11, 303
chamois 300
charcoal 48, 78, 114, 149, 204, 301, 302
dagger 300
dog skeleton in Regatón 109
engravings 40, 49, 299, 303
excavations 186, 299–302
by workmen 12, 299
extinct deer 134
flints 33, 96, 203, 300
funerary ritual 187
glass bead 300
grave goods 123, 301
hand-axe 40
hearth 11, 149, 302, 303
human bones 132, 300
human skull 183, 193, 196, 214
babies 203, 302
photo 186
Torno skull results 199
hunter-gatherer 300
hyena den 196
ibex 300
Iron Age 11, 213, 300, 301, 302, 303
ard shares 301, 302
farm implements 301
iron axe 303
limpet shells 300
Magdalenian 49, 299
mammoth's tooth 17
Medieval 11, 137, 302
hearth 11
jug 11
Mesolithic 300, 302, 303
Mousterian 11, 298, 299
mussel shells 300
oldest evidence 11
open-air settlement 187
Palaeolithic 11, 33, 49, 299, 300, 303, 304
art 11
Patronato de las Cuevas Prehistóricas 13
perforated periwinkle shells 299
pottery 11, 40, 96, 100, 114, 121, 128, 136, 137, 148, 149, 155, 156, 158, 166, 167, 170, 183, 186, 187, 196, 197, 300, 301, 302, 303
mamelones 167, 187
photo 159
red deer 299, 300
rituals 11
roe deer 300
Romano-indigenous 137
rubbish disposal 302
scratch marks 48
shotgun 188
spearhead, bone 49, 299
spearhead, iron 302
stone axe (Orillón) 123
stone hand adze - site 709 88
stone wall 299
storage 11
time line 301
wicker basket 165
wild boar 197, 300
- Arctostrea carinata** Lam. 275
Arenal, Cueva del 1, 30, 48, 62, 69, 73, 76, 80, 100, 121, 123, 128, 136, 143, 146, 155, 162, 171, 203, 242, 259, 304
Foam Dome 142, 143, 146
survey 142
Arkwright's Bar 231
Arredondo 2, 3, 19, 30, 36, 40, 90, 96, 118, 136, 143, 154, 163, 173, 181, 250, 267, 271, 280, 282, 283, 284, 285, 287, 290, 301, 302, 306
Arronte 190
art gallery 190
Arthur ? 88, 120
Arthur 'Arthur Sixpence' Rose 85, 109
Arthur Bridgeman-Quin 123, 124, 127, 128, 133, 134, 138, 145, 148, 152, 155, 160, 173, 185, 189, 192, 198, 201, 210, 222
Arthur Sixpence. *See* Arthur 'Arthur Sixpence' Rose
Ashleigh Phillips 96
Ashley Waite 109, 178, 198
Asiul, Cueva 205
Asociación Espeleológica Ramaliega. *See* AER
Asón 1, 12, 27, 28, 36, 45, 55, 76, 98, 99, 122, 242, 250, 261, 271, 281, 282, 283, 284, 285, 287, 290, 293, 294, 299, 305
Association Spéléologique Charentaise 112
Austropotamobius pallipes 138
Avel Bism Invvnnina 32
Avellano, Torca del 53
Azpilicueta, Torca de 2, 3, 35, 63, 64, 65, 67, 68, 72, 74, 75, 76, 77, 80, 81, 82, 83, 84, 86, 87, 88, 89, 103, 104, 105, 107, 109, 110, 121, 124, 127, 129, 136, 137, 138, 149, 153, 163, 165, 166, 173, 178, 181, 244, 262, 263, 287, 297, 306
- At the Opera 107, 181
China Syndrome 124, 127, 129, 136
Coffin Levels 149
connection to Reñada at Sanatogen Passage 77
connection to Reñada near Zeppelin Hangers 80
first exploration 63
flooding 163
GB Chamber 107
linked to Reñada 77
muddy side series 89
Pipe Cleaner 77, 80, 105, 107, 173
Portienzo Passage 77, 86
projected section 64
Selenite Crunch 107
sump index entry 262–263
Twiglet Zone 121
- B**
- Babe** 75
Baby. *See* John 'Baby' ?; *See* Richard 'Baby' Billinghamurst
Bacinella irregularis Radoicic 280
Badger. *See* Tony 'Badger' Radmall
Baker's Bar. *See* Bar La Panaderia
Balcabosa 58
Barandas, Cueva de las 301
Barcelona cavers 17, 22
Bar Germán 2, 23, 24, 25, 26, 27, 29, 45, 46, 47, 56, 61, 64, 70, 80, 84, 87, 95, 98, 99, 139, 161, 178, 231, 305
The bar that always says, 'Yes'. 46
Bar La Panaderia 2, 46, 134, 159, 172, 229
Bar Las Nieves 2, 5, 45, 50, 61, 84, 90. *See also* Snows bar
Barny. *See* Martin 'Barny' Barnicott
Barremian 292
Barry 'Baz' Davies 20, 22, 29, 39, 42, 53, 55, 58, 67, 85, 88, 101
Barry 'Baz' Edwards 138, 145
Barry Hullatt 166
Bar Tomás 46, 58, 73, 83, 91, 99, 153, 175, 214, 217
bats 20, 105, 162, 204, 209
Greater Horseshoe 204
Greater Noctule (*Nyctalus lasiopterus*) 204
Baz Davies. *See* Barry 'Baz' Davies
Baz Edwards. *See* Barry 'Baz' Edwards
Baz Hunt 210, 215
beach 20, 34, 42, 49, 51, 52, 55, 81, 82, 83, 90, 91, 98, 99, 129
Bea Goford 160
Beardy. *See* Paul 'Beardy' Swire
bear skeleton 16, 120
Becka. *See* Rebecca 'Becka' Lawson
Bedulian 266, 280, 281
Beer Kate. *See* Kate 'Beer Kate' Russell
Ben ? 102
Benjamin Davis 75, 88, 102, 109, 128, 138, 152
Ben Stevens 170, 175, 222, 225, 226
Beralta 160, 200, 278, 279, 280, 281, 283, 284, 287, 297, 306
Beralta, Torca de 160
Bernice Ferguson 133, 138
Beryl Hopley 102, 109
Bethan Gelling 80, 148, 222
Beth Jupe 215
Biff. *See* John 'Biff' Biffin; *See* Lou 'Biff' Biffin

- Biggo 39, 40, 41, 42, 43, 47, 48, 52, 73, 78, 202. *See also* Llueva, Cueva
- Big Jane 36, 42, 72, 75, 76, 80, 81, 82, 83, 84, 206, 244. *See also* Jane 'Big Jane' Guilbert
- Big Nose. *See* John 'Big Nose' Palmer
- Bill ? 55, 74, 124
- Bill Beardmore 20
- Bill Edmondson 72, 75, 80
- Bill Nix 160, 175, 206
- Bill Sherrington 189, 191, 192, 206, 208, 209, 210, 215, 227, 229, 235
- Bill 'The Hat' Haynes 58
- Billy Booth 109, 120, 124, 128, 134, 138, 148, 170, 178, 192, 201, 222
- bioherms 269, 270, 271, 283
- biostromes 269, 270
- Bjarne Buchardt 173, 184, 189, 198, 206, 222
- Bjorn Stubbington 215
- Blair Trewartha 29, 30
- Blodwyn 85
- Bob ? 58, 75, 80
- Bob (BSC member?) 29
- Bob Cawthorne 67, 72, 73, 85, 88, 101, 102, 105, 108, 109, 112, 113, 120, 123, 124, 127, 128, 132, 133, 134, 137, 138, 145, 148, 152, 155, 160, 162, 166, 169, 170, 175, 178, 185, 189, 192, 198, 201, 206, 210, 215, 222
- Bob Emmett 39, 42, 243
- Bob Mackin 53, 54, 69, 155, 170, 240
- Bob Savage 166
- Bob T? 72
- Bob Toogood 198, 201, 202, 203, 206, 210, 215, 222, 224, 225, 230, 231, 235
- Bocarones, Cueva de los. *See* Famous Five Cave
- bodega accident 116
- Bodegon, El 57, 132, 134
Orujo Passage 134
- Boghole 198, 201
survey 201
- Boil-in-the-Bag 132, 133, 144, 187, 197, 215, 218
- Bollón, Cueva del 13, 33, 55, 73, 77, 87, 88, 96, 111, 114, 122, 128, 131, 132, 144, 145, 157, 161, 165, 182, 187, 197, 215, 218, 226, 255, 256, 257, 283
diving summary 255
part survey 144
Passage of Slime 111
sump index entry 257
Vindication 226
- Bolton Speleo Club 32, 43, 306. *See also* BSC
- Bolton Underground Radio Phones.
See clothing & equipment for caving: BURPs
- Bosmartín 75, 89, 137
- Bosque, Cueva del 63, 203, 226
- boulder choke 4, 20, 40, 42, 47, 53, 54, 56, 57, 59, 62, 65, 67, 73, 75, 78, 81, 82, 85, 86, 88, 93, 94, 97, 104, 106, 107, 108, 109, 111, 114, 117, 121, 123, 124, 126, 127, 129, 133, 142, 143, 145, 147, 159, 172, 180, 181, 186, 193, 207, 208, 211, 214, 220, 221, 225, 226, 233, 235, 238, 243, 244, 246, 248, 257, 259
moving 4
- Boyones, Los 1, 3, 4, 42, 52, 57, 75, 97, 105, 123, 124, 132, 134, 190, 191, 199, 204, 243, 257, 260, 287, 291, 306
first exploration 42
pumping station 123
- Brachiopods* 276, 279, 280
- Brasso. *See* Earle 'Brasso' Godwin
- Brendan Brew 39
- Brendan Mackrill 160
- Brendan Sloan 170, 175, 222
- Brian ? 85, 102
- Brian Kirman 39
- Brian Rhodes 80
- Briozoa* 265
- Brittany Ferries 55, 101
- Brizoarios* 275
- Bronya Jones 55
- Bruce ? 85
- Bruce Davis 113
- BSC 29, 32, 33, 34, 306
- Buddha. *See* John 'Buddha' Yeadon
- Bueyes, Cueva de los 159
- Burro, Sima del 13, 16
- Bustablado 1, 12, 30, 125, 127, 138, 174, 250, 281, 282, 297, 303, 306
- C**
- Cabaña, Torca de la 6, 27, 63, 120, 121, 123, 129. *See also* Vera Negra, Torca de la
East Wanders 64, 129
link from Reñada 121
- Cabárceno 99
- Cabritilla, Sima de la 13, 17, 66, 67, 137, 140
- CAEAP 299, 303, 304
partnership with Matienzo Expeditions 303–304
- Caitlin Tringham 72, 75
- Calleja Rebollo, Cueva de la 12, 302
Civil War rubbish 12
- Calleja Rebollo, Torcón de la 3, 4, 58, 59, 62, 85, 91, 143, 200, 208, 257. *See also* Toad in the Hole
- Callejón de Seldesuto, Cueva del. *See* Arenal, Cueva del
- Callovian 265, 266, 268
- Camargo 96, 101, 115, 196, 303, 304
- Campiazo, Nacimiento de 164, 255, 256, 260, 261
diving summary 255
sump index entry 261
survey 164
- Campizo 180
- Campo, Cueva del 144, 197, 201
linked to site 1403 197
- Camposdelante 125, 210
- campsite 23, 24, 29, 30, 32, 36, 40, 42, 43, 44, 45, 46, 47, 50, 51, 55, 82, 83, 87, 91, 98, 99, 100, 101, 108, 133, 139, 154, 163, 175, 176, 191
barking dogs 191
campfire 31, 50
fireworks 51
jungle drums 51
new (1989) 100
photo page 79
singing 51
toilet 44, 50
- Campuvijo, Cueva de
sump index entry 257
- Campylobacter 98
- Cañado, Sima del 136, 166
- Canal, Cueva de la 42, 152
- Candenosa, Cueva 87, 172, 188
- Candenosa, Torca 87, 188
- Candy Lean. *See* Candy Openshaw
- Candy Openshaw 112, 120, 124, 134, 137, 138, 152, 155
- Canes, Torca de los 40, 41
- Cantones, Cueva de los 4, 101, 102, 103, 142, 163, 306. *See also* TV Mast Cave
Red Dwarf Series 102
Vertical Hold 102, 103
- Cañuela, Cueva de 19
- Caprotina lonsdalii* 276
- Cáرابو, Torcón del 129
- Caracoles, Cueva de los 303
- Carcass Cave 194
- Carcavuezo 1, 4, 11, 20, 26, 34, 35, 40, 43, 47, 49, 52, 57, 62, 68, 69, 73, 75, 76, 78, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 92, 92–95, 95, 96, 97, 108, 127, 137, 144, 154, 157, 165, 172, 221, 242, 243, 244, 255, 257, 260, 283, 286, 287, 291, 295, 306
Andy Quin's Foot 154
Argument Passage 85
Boys Entrance 244
Candy Shop 85, 88, 89
Cool Green Passage 88
Duck Passage 84
Ecstasy Aven 97
explored to lake 20
Frigate 92
Haymarket Extensions 43
linked to Llueva 84
Parallel Sausages 144
Pudding Passage 80, 137
push above sump 49, 52
Railway Sidings 87
Sewers of Doom 85, 87, 88
black string 89
sink blocked 4, 80
Snow Queen's Fantasy 127
Southbound Passage Junction 144
Straw Passage 137
sump index entry 257
Timeless Series 137
Western Series 88, 92, 95, 96, 97, 154, 157, 165, 172, 255, 257
Ovlov sumps summary 255
- Carl Atkinson 80, 85
- Carl Clarke 196, 204, 205, 206
- Carlos (Catalan) 113, 128
- Carlos González Luque 101, 104, 115
- Carl 'Zippy' Gibbs 85, 88, 133
- Carmel Ramwell 148
- Carmen Haskell. *See* Carmen Smith (Haskell)
- Carmen (Smith). *See* M^{ra} del Carmen de la Fuente González
- Carmen Smith (Haskell) 175, 178, 182, 184, 185, 188, 189, 192, 196, 201, 204, 206, 214, 222
- Carol ? 85
- Carol 'Dolly' Whalley (Tringham) 21, 22
- Carolina Smith de la Fuente 72, 75, 80, 85, 88, 96, 101, 102, 105, 108, 109, 112, 113, 120, 123, 124, 127, 128, 132, 133, 134, 137, 145, 152, 155, 158, 160, 165, 166, 170, 173, 178, 181, 185, 189, 192, 198, 201, 206, 210,

- 215, 222
- Caroline Fretwell 189, 192, 198, 210, 220
- Caroline Martin 72
- Carol Jones 29, 39, 42, 47, 53, 55, 63, 105, 124, 155
- Carol Tringham 21, 26, 27, 72, 74, 75, 80, 120
- Carol Wray 22, 29, 30
- Carrales 12, 132
- Carrasquilla, Cueva de la 16
- Carrie ? (LUPC) 145
- Casa Blanca, Cueva de la 163
- Casa Germán 5, 45, 56, 87, 95, 98, 99, 173, 178, 206, 230, 233, 305
- Castro Urdiales 98, 282
- Catalans 85, 100, 104, 111, 113, 115, 116, 118, 121, 122, 128, 129, 133, 134, 135, 136, 137, 143, 145, 155, 162, 163, 165, 170, 171, 181, 183, 192, 248, 251, 287, 309, 312, 313, 316, 319, 320, 325, 326, 328, 332, 334
- catalogue of Spanish caves (1894) 11
- Cathrine ? 80
- Cave Rescue Organisation 107, 108
- Caves & Caving 8, 62, 65, 69, 84, 89, 109, 122, 144
- CCC 175, 306
- CDG 175, 306
- Cefrales, Cueva 2, 3, 47, 48, 76, 137, 154, 160, 162, 166, 213, 214, 226, 306
attempt to link with Hidden Hole 160
- Cellaron, Torca de. *See* Cillarón, Torca de
- Cenomanian 266, 272, 274, 275, 276, 280, 281, 283, 284, 288
- Cepaea nemoralis* 300, 303
- Ceris Jones 166
- Charlene 'Charlie' Chambers 189
- Charlie ? 120
- Chas Frankland 88, 105
- chert 121
- Chester. *See* Peter 'Chester' Shaw
- Chestnut Hole 54, 89, 90
- Chispas, Cueva 64, 214
- Chofatella decipiens* Schlumb 280
- Chora, Cueva de la 182, 299
- Chova Piquigualda. *See* Alpine Chough Pot
- Chris ? 102, 123, 145, 152
- Chris Agnew 196, 198, 204, 205, 215, 217, 218
- Chris Binding 214
- Chris Blakeley 120
- Chris Camm 201, 204, 206, 209, 210, 212, 214, 215, 222, 223, 239
- Chris Castle 215, 218, 239
- Chris Cleary 53
- Chris Day 166
- Chris Flood 85
- Chris Fry 88, 113, 120, 123, 124
- Chris Lloyd 105
- Chris ? (LUPC) 145
- Chris Moys 22
- Chris Smith 192, 201, 210, 212
- Chris 'Stump' Whale 120, 123, 133, 175
- Christian ? 55
- Christine Clyde 22
- Chris Williams 175, 184, 189, 198, 206, 215
- Chris Wright 170, 178
- Chubbs. *See* Steve 'Chubbs' Greatorex
- Chuchi. *See* Jesús 'Chuchi' Ruiz Cobo
- Churro, Cueva del 1, 4, 41, 100, 107, 258
plumbing installation 41
broken 47
- sump index entry 258
- Churros, Sima de los 42
- Cidaris* sp. 278
- Ciervo, Sima del 14, 16
- Cillarón, Torca de 4, 52, 55, 57, 83
first exploration 49–52
- Civil War 5, 12, 30, 136, 206, 302
relics 30
- Clare ? 133
- Clare Dallimore 206, 208
- Clare Youens 222
- clays 265, 267, 272, 275, 278, 280, 281
- Climbing Wall 145, 173
- Clive Westlake 215, 237, 256
- clothing & equipment for caving
bolting & drills 7, 120
buoyancy aids 100
BURPs 86, 88
capping 5
Hilti 7, 125, 127, 131, 132, 136, 142, 144, 154, 155, 160, 161
protective equipment 8
carbide lights
problems 33, 40, 41
stinkies 5, 7, 29, 43, 68
waist-mounted 7
chainsaw 155
digging 7
dinghies 42, 123, 241
in Reñada 84
sinking 13
using maypole from 52
- Earby Sump Pump 200
- early clothing 13
- early lighting 12
- electric light 7
- expanding foam 143, 164, 192
- flare 77, 110
- furry suit 5, 7
- generator 7, 142, 143, 147, 153, 157, 166, 171, 173, 187, 198, 222
- inappropriate 5
- inner-tube 26, 42
- maypole 49, 52, 54, 68, 113, 115, 132, 134, 144, 160, 161. *See also* clothing & equipment for caving: scaling pole
- Molephones 53, 54, 68, 69, 73, 86, 104, 144, 198, 199
- oversuit 7
- photography. *See* recording & documenting: photography
digital cameras 137
slave units 196
radios 43, 121, 149
rock breaker 143, 145
scaling pole 26, 32, 34, 53, 54, 72, 115, 122, 155, 156, 202, 220, 222, 225.
See also clothing & equipment for caving: maypole
smoke bomb 53, 59, 73, 81
Snappers 173, 195, 200, 212, 213
Guardia Civil incident 212
submersible pump 222
up-your-endoscope 173
wet suit 5
- Club Montañés Barcelonés 17, 306
- Cobadal 1, 3, 4, 11, 39, 84, 104, 108, 162, 163, 164, 167, 168, 172, 174, 175, 176, 177, 178, 179, 180, 183, 184, 186, 188, 190, 191, 195, 200, 203, 204, 209, 210, 212, 216, 233, 237, 238, 258, 306
- early visit 39
- Cobadal de Matienzo 11
- Cobadal, Sumidero de 3, 4, 39, 168, 175–176, 176, 177, 178, 179, 180, 183, 184, 186, 188, 190, 191, 200, 203, 204, 209, 216, 233, 258
- Big Keyhole 178, 180
- Birthday Passage 178, 200, 225
- drainage postulations 233–234
- Evidence of Measure 176, 180
- Evidence Oxbow 180, 184
- Hole in the Wall Chamber 178
- Just an Inlet 176, 178, 180, 203, 216
- Loop Pitch 178
- Meander Passage 176, 178, 204, 209
- Passage of Vom 176, 216
- photographs 179
- Pinnacle Passage 184, 203
- Rat Junction 176, 178
- streamway photo 177
- sump index entry 258
- Taters Deep, Mountain High 180
- Torture Chamber Grotto 178
- Wessex Inlet 176, 178, 183, 186, 258
- Wounded Knee Series 204, 209
- Coberruyo, Cueva de 12, 169, 204, 302, 303, 314
- Cobrante, Cueva de 52, 53, 77, 101, 299, 302
early explorations 52
scaling attempt 53
- Codisera, Cueva 4, 14, 15, 17, 40, 160, 183, 271, 279, 281, 284, 285, 303. *See also* Coquisera, Cueva de
- Coercion Cave 202, 212, 258
sump index entry 258
- Cofresedo, Cueva de 11, 12, 13, 16, 20, 126, 152, 165, 210, 213, 240, 285, 286, 299, 300, 301, 302, 303, 304
gating 165
- cold store 144, 218, 225
- Cold Store Cave. *See* Llanío, Cueva-Cubío del
- Colectivo para la Ampliación de Estudios de Arqueología Prehistórica. *See* CAEP
- Colin Davison 85, 88, 109, 120
- Colin 'Goomer' Marshall 58, 63, 66, 67, 80
- Colin W 120
- Collada, Cueva de 64, 185, 188, 190, 217, 222, 224
coal seam 188
survey 224
- colluvium deposits 295
- Colmenas, Cueva or Fuente 59, 66, 84, 112, 113, 114, 123, 124, 203, 210, 258, 259, 306
early explorations 113
linked to Penny's Cave 113
Play School Series 113
sump index entry 258
- Colorado, Cueva de 137, 303
- Comellantes, Cueva del 1, 2, 11, 21, 22, 65, 76, 78, 103, 138, 143, 156, 203, 216, 243, 244, 245, 246, 256, 258, 263, 306
diving summary 244–246
sump index entry 258
- Comité Nacional de Espeleología formation 14
- Compañía Petrolífera Valdebro 267
- Complutense University of Madrid 12, 16, 265
- computers

- BBC 9, 10, 80
- Concebo, Cueva del** 13, 30, 283, 303
- Conference, Ljubljana, Yugoslavia (1965)** 16
- conglomerates** 265, 271, 279, 285
- conservation & restoration**
- Cofresnedo broken into 240
- Reñada
- damage to orange crystals and flows 214
- Torca la Vaca
- broken stal 209, 210
 - repair underground 214, 215
 - restored in place 215
 - continuing passage not entered 213
 - taping formations 214
 - washing formations 214
- Contrabandistas, Cueva** 136
- Copudia, Cuevas de** 58, 76, 148
- Coquisera, Cueva de** 4, 12, 13, 14, 16, 17, 72, 75, 80, 112, 114, 120, 178, 183, 200, 298, 300, 301, 303, 306. *See also* Codisera, Cueva de
- Chinas 16, 17
- Popcorn Climb 183
- Corcada, Torca de la** 181
- Cosas, Cueva de las** 11, 12, 37
- graffiti 11
- Coskolinola sp.** 280
- Coskolinella daguini** 277, 280
- Cosmic Bubble** 72
- Cosmic (Cos)** 75, 85
- Coterón de las Llanas, Torca del** 58
- Coterón, Torca del** 2, 3, 58, 59, 62, 64, 65, 66, 67, 68, 69, 76, 77, 85, 86, 88, 110, 112, 128, 129, 134, 148, 153, 155, 156, 160, 170, 171, 181, 189, 258, 262, 280, 283, 287, 297, 298, 306
- 81 Depths 62, 67, 155
- another connection with Reñada 85
- Battery Passage 67, 68
- Between Worlds Passage 65, 66
- Candy Floss Passage 65
- Edge of the Universe 2, 3, 58, 59, 62, 64, 65, 66, 67, 68, 69, 76, 77, 85, 86, 88, 110, 112, 128, 129, 134, 148, 153, 155, 156, 160, 170, 171, 181, 189, 258, 262, 280, 283, 287, 297, 298, 306
- Edge of the World 62, 64, 170
- first explorations 58–62
- Frank's Passage 64, 65, 66, 181
- linked to 1338 155
- linked to Reñada 64
- second connection 65
- Marvin's Marvels 59, 62, 64, 134
- Matutano Passage 67
- Reñada Arm 67, 112, 170
- sump index entry 258
- Tampax Chamber 65, 86
- Covalejos, Sistema de** 304
- Covarona, La** 55, 215
- Coverón, Cueva del** 16, 32, 91, 306
- Tree Gallery 32
- Cow Pot.** *See* Vaca, Torca la
- CPC** 175, 306
- Craig Giles** 215
- Cráneo, Torca del** 186, 187, 196, 197, 199, 300
- excavations, including skull 186
- crayfish** 5, 30, 138, 149
- Cretaceous** 266, 268, 292
- Cruz Usaño** 1, 32, 75, 146, 152, 178, 206, 208, 284, 285, 291, 294
- Cryptocoenia nov sp.** 279
- Cuatribú, Cueva** 11, 13, 30, 162, 285, 302, 303
- Cuatro Entradas, Cueva de** 226
- Cubija** 1, 2, 3, 4, 17, 22, 30, 47, 57, 72, 77, 78, 105, 106, 109, 112, 114, 121, 123, 124, 129, 138, 144, 150, 165, 186, 187, 197, 215, 218, 226, 258, 271, 281, 286, 287, 296, 297, 306
- Cubija, Cubio de** 17, 57
- link to Regatón 109
- Cubija System** 286, 296. *See also* North Vega System
- Cubija, Torcón de** 17, 22, 30, 112, 121, 258
- sump index entry 258
- Cubillas, Barrio de** 1, 2, 4, 14, 17, 46, 99, 267
- Cuca** 30, 45, 46, 70, 112, 139
- CUCC** 175, 306
- Cuervo, Cueva del** 134
- Cueto-Coventosa** 76, 301, 302
- first upward through trip 76
- Cueto, Sima del** 12, 17
- Cueva del Reyes** 213
- Cuevona, La** 1, 11, 13, 16, 26, 28, 32, 78, 241, 242, 256, 258, 260, 291
- diving 26
 - sump index entry 258
- Cuevuca, La** 57, 137
- Cullalvera, Cueva** 11, 18, 19
- mass 19
- Cultura, Cantabrian Consejería de** 134, 183, 184, 210, 240, 286
- Cumpleaños, Sima** 67, 158, 159, 178, 200, 225
- Cuneolina** 277, 278
- Cuneolinas** 275, 278, 279
- Cuneolina sp.** 277, 278
- Cuvía, Fuente de la** 56, 57, 147, 259
- D**
- Dairy Dig** 128, 129
- Dalestreet.** *See* Geoff 'Dalestreet' Stranding
- Damian ?** 165
- Danes** 166, 170, 173, 175, 189, 207, 219, 222
- Dan Hibberts** 192, 201, 206, 210, 215, 220, 222, 230, 231, 235
- Daren Cilau** 123
- Darren Jarvis** 222
- Daughters' Bar** 2
- Dave ?** 53
- Dave 'Angus' Bell** 134, 138, 152, 155, 160, 162, 166, 170, 175, 188, 189, 198, 206, 210, 215
- Dave Biggs** 108, 109, 112, 120, 152, 154, 160
- Dave 'Cookie' Cooke** 175, 184, 189, 198, 206
- Dave Cowley** 192
- Dave (DCC) ?** 85
- Dave 'Droid' Drury** 138
- Dave Edland** 138
- Dave Evans** 55
- Dave Foxtan** 138, 140, 143, 145, 146, 152, 153, 160, 161, 162, 163, 178, 181, 192, 193, 210, 211, 235, 236, 246
- Dave Francis** 134
- Dave G** 137
- Dave Garman** 196, 198, 201, 202, 206, 207, 220
- Dave Garner** 47, 48, 49, 206
- Dave George** 72
- Dave Gledhill** 192, 198, 200, 201, 202, 203, 206, 208, 210, 213, 214, 222, 227, 229, 230, 231, 232, 233, 234
- Dave 'Gnome' Murphy** 175, 176, 184
- Dave 'Grovel' Hanson** 6, 55, 63, 67, 72, 75, 80, 85, 96, 102, 105, 109
- Dave ? (GSG)** 148
- Dave Hartnup** 300
- Dave Hassell** 120, 122
- Dave (HCC) ?** 88, 96
- Dave Hodgeson** 148
- Dave Hoggarth** 184
- Dave Howard** 47, 48, 49, 55, 57, 67, 68, 69, 72, 75, 80, 85
- Dave Jean** 96, 113
- Dave King** 166, 167
- Dave Leonard** 21
- Dave Linton** 6, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 35, 36, 37, 241, 300
- Dave Milner** 175, 176, 184
- Dave Ormrod** 120, 138, 145, 146
- Dave Ottewell** 145, 146, 152, 160, 161, 198, 199
- Dave Raine** 182
- Dave Rowe** 133, 138, 141
- Dave Rowlands** 22, 23
- Dave Ryall** 215, 216, 244, 246, 255, 256, 263
- Dave Salerman** 96, 102, 109
- Dave Tringham** 21, 22, 23, 67, 68, 72
- Dave 'Tufty' Tuffery** 134, 138, 155, 166, 170, 175
- Dave Wagstaff** 29, 109, 113
- Dave Waite** 109
- Dave 'Yorkshire Dave' H?** 148
- David Ferguson** 133, 138
- David Harley** 170
- David 'Joe' Turner** 22, 29, 39, 42, 47, 53, 55, 58, 63, 66, 67, 72, 75, 80, 85, 88, 96, 101, 102, 105, 109, 113, 120, 124, 128, 134, 155, 162, 166
- David Mills** 155, 192, 198, 222, 225
- David 'Noddy' Nodding** 63, 75
- David St Pierre** 165
- DCC** 40, 41, 53, 77, 85, 86, 110, 143, 172, 178, 182, 192, 193, 195, 205, 306. *See also* Derbyshire Caving Club
- Dean Edwards** 72
- Debbie Limbert** 53
- Deborah Last** 215
- Dennis Rugg** 22, 29, 105, 242, 261
- Dennis Taylor** 85
- Derbyshire Caving Club** 39, 77, 128, 131, 306. *See also* DCC
- Derek ?** 175
- Derek Freeman** 178
- Derek 'Nowty' Westwood** 42, 53, 58, 66, 67
- Derek 'Shouting' Leigh** 55
- Dick ?** 102
- Diente, Cueva** 136, 300, 302
- Di Fletcher** 20
- Dijón, Speleo-Club de** 12, 17, 36, 96, 287, 290
- Dimorphastrea crassisepta Orb. var. sub-crassisepta** de Angelis 273
- Dingle 1.** *See* Simon 'Dingle 1' Latimer
- Dingle 2.** *See* Andrew Latimer
- Dingle 3.** *See* Johnny 'Dingle 3' Latimer
- Dinny 'Dinny' Davis** 152

Di Palmer 42, 63**diving**

Agua 165, 241, 255
 Aguanaz 120, 121, 154, 157
 1989 246
 1995 246
 sump 3 246
 Bollón 122, 144, 255
 Campiazo 164, 255
 Carcavuezo 47
 1977 dive 242, 243
 Ovlöv sumps 154, 157, 165, 172, 255
 Comellantes 65, 138, 143
 1982 244
 1987 245
 1989 & 90's 245
 2009 246, 255
 contaminated air 252
 Cueva del Sifón Claro 47, 56
 Cueva Lluvea
 downstream 43, 47, 122, 243
 upstream 43, 47, 54, 59, 62, 73, 78,
 80, 243
 breakthrough 56, 56–57, 243
 solo dive 57, 243
 Cuevona 241
 decompression 247, 248, 250, 251, 252,
 254
 equipment 241–256
 Famous Five 255
 first documented at La Cuevona 241
 free-dive 28, 242
 Jivero 1 linked to site 246 147, 255
 logistics 252, 254
 Molino (Bustablado) 125, 127, 129
 1995 250
 1996 250
 1997 250–251
 1999 251–252
 2004 rebreather problems 254
 2007 254
 2008 gear removed 255
 downstream sumps to the resurgence
 251
 French 250
 survey 253
 Mostajo lower series, 1985 76
 Nacimiento del Río Clarín 242
 Penny's Cave 66, 81
 Peter Plummet 62, 120, 125, 170, 242,
 243, 246, 247, 248, 256
 1975 247
 1981 247
 1995 247
 1996 247
 2003 248
 first exploration 62
 rebreather 252, 253, 254, 255
 Reñada
 beyond sump 1 160, 162, 244
 near Breakdown Chamber (2009) 216,
 244
 sump 1, 1975 dive 242
 sump 1, 1980 dive 57
 sump 1, 1981 dive & push 59
 Two Sumps Chamber 129
 Sifón Claro 243
 site 979 132
 Spanish depth record 129
 Surgencia de las Crecidas 47
 Torca la Vaca 237
 Vallina

downstream 111, 116, 160–161, 171
 1993 248
 2002 249
 2003 250
 survey 248
 upstream 124, 133, 146, 154
 1996 248
 1998 249
 2000 249
 2001 249
 survey 248
 Wild Mare 121, 255

DJ 170, 172, 228**Doc 85****Dofrades, Cueva de. See Cefrales, Cueva****dolomite 276, 279, 283****Dominique ? 55****Dormouse Cave 157****Dos Perros 210, 212, 259**

sump index entry 259

Dove Fletcher 20**dowsing 108, 148****drainage 4, 285****Duncan Mercer 113, 117****Duncan Price 80, 82, 83****Dutch caver 96, 116****dye test**

Alisas 3
 Anderal, Tizonas area 14
 before 11
 Chestnut Hole to Hoyuca 89
 Cobadal - Fuente Aguanaz 3, 190–191,
 233
 Cueva Hoyuca to Cueva Lluvea 1978 48,
 52
 Fuente las Varas Pot 53, 152
 Hoyón 1985 78
 in Cueva Hoyuca 1976 41
 in Cueva Tizonas 12
 methodology 190–191
 sink into Hoyuca (near Pull Up Passage)
 259

E**Earby Pothole Club 237, 306****Earle 'Brasso' Godwin 53, 58****EcoCulturas, Asociación 149****Ed ? 152****Eddie Edmundson 39****Eddie Jones 222****Ed Harmer 85, 88****Ed Johnson 215****eels 164, 254, 255****El Camino, Barrio 1****Eldon Pothole Club 206, 234, 235, 236, 246,
247, 306. See also EPC****Eleanor Jasper 105****Elen Rees or Lees? 72****Elies (Catalan) 128, 133****Elliot Whitehead 85, 96****El Naso 1, 4, 29, 30, 37, 55, 68, 75, 127, 134,
136, 138, 140, 146, 147, 149, 152,
155, 161, 165, 167, 169, 172, 174,
182, 183, 204, 205, 210, 240, 297,
298, 306. See also Enaso****Elsbeth Hullatt 166****Elvis ? 120****Emboscados, Cueva de los 11, 13, 30, 40,
69, 80, 88, 91, 210, 286, 299, 303**

digging at end 40

gated 40

Emilio Muñoz 101**Emma 'Ems' Heron 198, 206****Emma Moyse 206, 215****Ems. See Emma 'Ems' Heron****Enaso 29, 32, 55, 75, 127, 271, 280. See
also El Naso****Entrada Tres 223, 239, 260**

survey 239

**Entrambasaguas 1, 33, 128, 168, 174, 231,
306****environmental issues**

animal sewage in Hoyuca 104
 bulldozing 35
 cloudy underground water 244, 246
 limestone pavement destruction 165
 new tracks 205
 protection areas (Entornos de Protección
 de Bien de Interés Cultural) 210
 pylons 205
 quarry (proposed) 218, 222, 226, 240
 road widening 144, 239, 240
 rubbish 12, 28, 57, 108, 109, 167, 168,
 169, 175, 180, 185, 189, 217, 227,
 302
 Tali 2 depression filled in 210
 tyre dumps 204, 217
 wind farm (proposed) 240

Eoradiolites lyratus Conrad. 272**EPC 35, 36, 207, 208, 220, 306. See also El-
don Pothole Club or Earby Pothole
Club****Epiglottis Cavern 134****Epistretophyllum nov. Sp. 279****equipment. See clothing & equipment for
caving****Eski. See Harry 'Eski' Hesketh****Espada, Cueva de la 4, 33, 34, 164, 167,
225, 259, 300, 302**

sump index entry 259

Espeleo Club Tortosa 100, 116**Espina, Torca de la 205****Esquimadera, Torca de 96****Esquimaduelas, Cueva de las 169. See
also Snottite Cave****Esther Giddins 123****Eugenio Ortiz 16****Eugyra oceani 279****Exogira latissima 272****Exogyra boussingaulti 272****Exogyra boussingaulti Orb 272, 273****Exogyra conica Orb. 275****Exogyra sp. 272, 273, 278****Exogyra tuberculifera 276****F****Famous Five Cave 255, 256, 259**

sump index entry 259

Fat Boy Getting Thinner 84, 108. See**also Torcida, Cueva de****fauna 16, 104, 266, 268, 271, 272, 278,
294, 304****Federación Cantabra de Espeleología 174****Federación Española de Montaña 14****Fernando Fernández Labadie 188****Ferret. See Paul 'Ferret' Newman****Fib Pot 124****fiesta 16, 23, 30, 41, 43, 51, 52, 90, 104,
135, 149, 158, 159, 171, 173, 182,
233****Five Valleys System 4, 220****fleas 173**

- football 78
 football match 27, 28, 74, 83
 team photo 31
 Footleg 189, 190, 192, 196, 198, 199, 201, 202, 203, 206, 207, 210, 213, 215, 217, 218, 219. *See also* Paul 'Footleg' Fretwell
 Foot & Mouth 152, 155
 Foraminifera 276, 288
 Four Valleys System 4, 47, 55, 75, 81, 82, 89, 97, 104, 110, 122, 124, 127, 132, 134, 144, 147, 149, 154, 157, 161, 164, 167, 172, 182, 190, 193, 198, 202, 206, 213, 217, 218, 219, 221, 286, 291, 296, 305
 Carcavuezo linked to Llueva 84
 Hoyuca joined to Riaño 80
 Hoyuca-Llueva link collapsing 86–87
 Hoyuca-Llueva link surveying 84
 Llueva joined to Hoyuca 81
 new survey 218
 Fox Hat, The 52, 177, 193
 first exploration 52
 Frances ? 72
 Francisco Abad "Paco" 14
 Francisco Etxebarria 199
 Francisco Quevedo (poet & novelist) 11
 Franco 5, 30, 51, 302
 Francoise ? 175
 Francoist youth organization 13, 18
 Fran Frankland 88, 105
 Frank Addis 4, 6, 42, 47, 53, 55, 58, 63, 67, 72, 73, 75, 85, 214, 242
 Frank Brown 72, 73, 75, 85
 Fred Winstanley 53, 55, 63, 75, 128, 242, 243, 244, 247, 258, 261, 262
 Freedom Pot 201, 202
 French cavers 36, 41, 73, 76, 87, 225, 250
 hospitality 36
 Fresnedo 1, 4, 48, 53, 57, 101, 102, 103, 105, 106, 107, 108, 109, 110, 111, 112, 114, 120, 122, 131, 177, 189, 191, 193, 194, 195, 199, 200, 201, 212, 259, 306
 Fresnedo 1, Cueva de 53
 Fresnedo 2, Cueva de 4, 48, 102, 105, 106, 110, 122, 177, 259
 Big Chamber 106, 107, 111
 Cascade Inlet 111
 entrance found 101
 Henry's Chamber 111
 Knotted Rope Series 111, 114, 259
 Laredo Junction 103
 Not Worthwhile Passage 177
 Paul's Chamber 122
 sump index entry 259
 That Chamber 111, 112
 The Howling 103, 104, 111
 Tile Passage 111
 What Passage 111
 Which Passage 111
 Worthwhile Passage 110, 177
 Fuente Aguanaz 1, 3, 39, 89, 100, 120, 121, 125, 154, 157, 174, 175, 180, 185, 190, 191, 204, 214, 222, 224, 233, 234, 238, 240, 246, 247, 248, 255, 256, 257, 305
 diving summary 246
 drainage postulations 233
 first exploration 89
 inlet and higher level 247
 potential 191
 sump index entry 257
 Fuente las Varas 1, 2, 12, 42, 49, 53, 58, 70, 137, 138, 147, 152, 157, 182, 240, 271, 274, 275, 276, 278, 280, 282, 283, 284, 286, 288, 291
 Fuente las Varas Pot 49, 53, 152, 157
- ## G
- Gail Searby 6, 55
 Gandara 284
 Gareth ? 109
 Gareth 'Gaz' Cross 145
 Gareth Goodall 178
 Gareth 'Sweeny' Sewell 53
 Gareth Watkins 29
 Garma de Los Trillos, Sima de la 143, 145, 306
 Garry ? 96
 Gary Cullen 198, 201, 202, 203, 206, 215, 220
 Gary Rhodes 201, 202
 Gaudryina sp. 277
 Gavin ? 53, 152
 Gavin McPherson 162, 261
 Gaydryina cf. Alisana Hofker 280
 Gaye Richardson 102
 GEIS C/R 96, 101, 306
 Geoff 'Dalestreet' Stranding 39, 53, 120, 170, 178, 201
 Geoff Yeadon 22, 23, 28, 29, 42, 43, 241, 242, 243, 247, 258, 260, 261, 262
 geological sequence 291
 geomorphology 291–298
 Geordie. *See* John 'Geordie' New
 Geraldine 'Germaline' Palmer 80, 85, 112, 127, 170
 Geraldine Robinson? 20
 Germaline (Germ). *See* Geraldine 'Germaline' Palmer
 Germán, Cueva de 11, 128
 Germanín 86, 87
 Germán Solana Gomez 45, 70–71, 128, 139, 178
 GES 72, 306. *See also* Grupo de Exploraciones Subterráneas
 Ghar Parau Foundation 62, 84, 306
 Giant Panda. *See* Hoyuca, Cueva: Giant Panda entrance
 Gideon Chilton 178
 Giles Barker 105, 113
 accidental death in Azpilicueta 1992 105, 107–108
 memorial plaque 108
 dedication ceremony 113
 Gill ? 88
 Gill Taylor 55, 58, 75, 105, 113, 182
 Gilly ? 96
 Ginga 145
 glaciers 293, 294
 Glenn ? 101
 Glen Parry 72, 75
 Gluaco 'Italian 3' ? 75
 Gnome. *See* Dave 'Gnome' Murphy
 Goldie. *See* Julie 'Goldie' Davies
 Gonzalo, Cueva de 4, 5, 16, 259
 sump index entry 259
 Gonzo. *See* Mark 'Gonzo' Lumley
 Goomer Colin. *See* Colin 'Goomer' Marshall
 Gordon ? 6, 55
 Gordon Proctor 198, 201, 206, 214, 215
 GPS. *See* recording & documenting: GPS
- Graham ? 29, 30, 39, 105
 Graham ?? 29, 39
 Graham B? 53
 Graham Hart 96, 124, 126, 129
 Graham Lindsay 102
 Graham O? 53
 Graham Summers 58, 63, 75, 80, 88, 96
 Grajas, Cueva de las 113, 114, 149, 300, 303, 304
 Granville Shillito 109, 120
 Green Door Cave 144
 Green Pepper Cave 172
 Greg Brock 160
 Grovel. *See* Dave 'Yorkshire Dave' H?
 Grupo de Exploraciones Subterráneas 17, 306. *See also* GES
 Grupo Espeleológico "Torca" 47
 Guadalupe 104, 113, 114
 Guardia Civil 50, 51, 76, 107, 115, 173, 212, 233
 Guy Jackson 88, 89
 Guy Simmonot 36, 87
 gypsum 65, 69, 84, 102, 107, 110, 149, 234, 237
- ## H
- haematite 271, 279
 Haggis 145
 Hammered Hole 67, 137, 142, 146
 Hannah Devine 148, 155
 Hans (Dutch caver 1) 96
 Haplophragmoides greigi 277, 280
 Harriet Cullen 215
 Harry Brisland 210, 212, 222
 Harry 'Eski' Hesketh 152, 155, 160, 162, 165, 166, 170, 173, 175
 Harry Long 123, 145, 155, 162, 166, 175, 189, 192, 198, 201, 206, 210, 212, 215, 222, 225, 240
 Hatstand. *See* John 'Hatstand' Osborne
 Haya, Cueva del 108
 Haymarket 43, 88, 97, 167
 Haymarket Caving Club 88, 96. *See also* HCC
 HCC 88, 96. *See also* Haymarket Caving Club
 Helechales, Cueva de los 155, 156, 157, 160, 183, 300, 306. *See also* site 408
 Hoedown Pitch 156, 160
 Ledge Pot 156
 Helen ? 72
 Helen Blyth 138, 143, 145, 146
 Helen Costelloe 160, 162, 170
 Helen 'Little Helen' ? (LUPC) 145
 Helen Long 155, 162
 Helen Sergeant 42, 45, 75, 88, 102, 109, 128, 138
 Helen Wray née Hougham 108, 113
 helictites 59, 72, 74, 111, 134, 215, 226, 234
 Hemiaster sp. 274
 Hen Run Bar 2, 32, 44, 45, 70
 Hepatica Hole 217
 Hercynian 267, 283, 284
 Herman Munster 105
 Heterasta oblongus 272
 Hidden Hole 2, 3, 66, 155, 156, 160, 162, 166, 213, 222, 226, 306
 Gloom Pitch 156, 160, 226
 Robin Head Passage 156
 Sherwood Forest 156
 Slip Sliding Away 160, 162
 Squeezing Column Passage 222
 Higuera, Torca de la 57

Hilary ‘Hilly’ Mills 20, 21, 22, 29, 39, 42
Hilary Papard 45, 47, 53, 55, 58, 63, 72, 75, 80, 85, 88, 96, 101, 102, 105, 108, 109, 112, 113, 120, 124, 127, 128, 134, 137, 138, 145, 148, 152, 155, 158, 160, 162, 165, 166, 170, 173, 175, 178, 183, 184, 185, 189, 192, 198, 201, 206, 210, 214, 215, 222, 240, 243
Hilda Lawrence 201
Hilly. *See* Hilary ‘Hilly’ Mills
Hobbit. *See* Ian ‘Leg Iron’ Lloyd
Hole-in-the-Road 144, 145, 149, 157, 172, 226, 255, 257, 306
Hombre, Torca del 128, 214
Honda XL185 motorbikes 75
Hondo, Torca el 125, 128, 217
Hornedo 33, 53, 112, 121, 132, 209, 212, 214, 215, 222, 227, 235, 236, 306
Hornijo, Sierra del 282, 284
Horse Trough Pot 121, 122
Howard Brook 80, 88, 109
Howard Limbert 53
Howard Taylor 75, 85
Hoya de Yusa 11, 35, 172, 184, 291, 306
Hoyo de Llusa 11
Hoyón, Torca del 3, 78, 86, 259, 306
description 78
sump index entry 259
Hoyo Verde, Cueva del 196
Hoyuca, Cueva 4, 7, 8, 20, 26, 27, 32, 34, 37, 40, 41, 43, 47, 48, 50, 53, 54, 55, 56, 57, 59, 62, 68, 69, 72, 73, 74, 75, 78, 80, 81, 82, 83, 84, 86, 87, 89, 97, 104, 110, 112, 113, 115, 120, 122, 127, 132, 134, 144, 147, 149, 152, 161, 164, 193, 198, 199, 201, 207, 213, 217, 220, 221, 225, 242, 243, 244, 259, 260, 262, 283, 291, 306.
See also Uzueka, Cueva
3rd River Inlet 34, 53, 55, 201
push, 1980 55
4th River Inlet 72
Armageddon 4, 41, 53, 54
exploration beyond 41
Armageddon Bypass 54
Astradome 4, 48, 52, 53, 54, 86, 110, 113, 115, 122, 147
climbing 110
fatal accident 115, 122
helium balloon 48
“back door” 68, 73
Camp 1 68, 69, 86
Carousel Passage 32
Church entrance 84, 104, 110
animal sewage 104
Crossover Crawl 33, 34
Duckhams Sump 41, 43, 47, 147, 260
Far Stomps 33, 132, 242, 259
first exploration 27
Flashbulb Hall 27, 78, 226
flooding 48, 221
Giant Panda entrance 41, 54, 198, 201, 207, 208, 221
locating and digging out 198–199
Gorilla Walk 4, 34, 43, 47, 53, 54, 74, 89, 132, 161, 162, 164, 221
Gour Inlet 4, 110, 193, 207, 213, 217, 218, 221
extension discovered (2007) 207
Green Choke 47
Green Van Series 74

Las Playas 69
linked to Riaño 80
Mace Head Passage 68
naming v Uzueka 32
Obvious Junction 34, 41
Pigs Trotters Chamber 32, 78, 112, 149
Pull Up Passage 259
Punk in the Gutter 27
first explorations beyond 32–33
Quadrapphenia 27, 40, 144, 259
radio location 54
Rocky Horror 6, 41, 47, 54, 59, 62, 68, 81
first entered 41
push 1977 43–47
smoke test through to Cueva Llueva 59
Second River Inlet 34, 74, 75, 78, 80
Shrimpbone Inlet 41, 147
Sima Baz 259
Sima Dave 27
Soggy Sahara 221
Straw Inlet 69
sump index entry 259–260
Thunderdome 221
Tomorrow Morrowland 217, 221
Trident Series 68, 69, 73, 81, 97, 104
Sandstone Passage 73
Wardrobe Passage 112, 127
Wildlife Series 149
Windy Inlet 161–162, 198, 199, 201, 207, 221
Zoological Gardens 132
Huerto Rey, Cueva de 194, 200, 204, 260, 306
Cascade Chamber 200
Glory Grabber’s Gallery 200
Pleb’s Passage 260
sump index entry 260
Wild Cat Alley 200
Hugh ? 165
Hugh Browning 119, 128, 138, 148, 170
Hugh St Lawrence 112, 120, 127
Humo, Cueva de 96
Hypocritical Cave 209

I

Ian ? 88, 101
Ian Chandler 80, 81, 96, 120, 162, 166, 170, 173, 174, 175, 178, 182, 183, 184, 185, 188, 189, 192, 196, 197, 198, 201, 204, 206, 210, 214, 215, 222, 239
Ian Greaves 128
Ian ‘Hobbit’ Ross 113, 120
Ian Hopley 39, 40, 42, 102, 109, 111
Ian Lawton 120, 121, 122, 124, 137, 145, 148, 152, 178
Ian ‘Leg Iron’ Lloyd 63, 67
Ian Loughrey 85, 86
Ian ‘Monty’ Montgomery 63, 66, 80
Ian Morley 39, 40
Ian Timney 175
Ian Vincent 222
Ian Walton 109, 110
Ian Williams 55
Ian Wood 67, 69, 72
Ideopuerta 174, 175, 193, 204, 306
Imogen Furlong 170
International Society for Speleological Art 169
Invisible Cave 222, 223, 224, 239, 256, 260
Room 306 222

sump index entry 260
survey 239

Irena (Catalan) 133
isotope analysis 298
ISSA. *See* International Society for Speleological Art
Italian 75, 77, 123
Italians 77, 78

J

Jackie ? 120
Jackson Corrie 18
Jack ‘The Flan’ Taylor 152
Jaime, Torca 32
Jake Baynes 215
James Carlisle 206, 210, 215, 222, 224, 227, 230, 231
James Gelling 148, 178, 192
James Goulding 152
James Leslie 85
James ‘Rodders’ Wood 215, 222
Jana Ančáková 178, 180
Jana Červeňová 178, 180
Jane ? 63
Jane Allen 105, 109, 120, 170, 172
Jane ‘Big Jane’ Guilbert 42, 72, 75, 80, 206
Jane Brew. *See* Jane Chilton
Jane Chilton 39, 50, 72, 75, 80, 81, 85, 88, 96, 101, 102, 105, 109, 110, 111, 112, 113, 120, 121, 124, 126, 127, 128, 133, 134, 135, 136, 137, 138, 140, 144, 145, 148, 152, 162, 166, 170, 172, 178, 198, 215, 238
Jane Cobrey. *See* Jane Chilton
Jane Draisey. *See* Jane Allen
Jane Evans 96, 97
Jane Hollingworth 29
Jane McCorquodale 134, 138, 141, 155
Jane’s Apprentice. *See* Richard ‘Jane’s Apprentice’ Greenslade
Janira atava 276
Janira morrissi 278, 288
Janira paulii 276, 278
Jason ? 102, 175
Jason Lin 210, 215
Jason Mallinson 85
Jason Ryder 192
Javier ‘The Judge’ Talma 128
JC. *See* John ‘JC’ Cope
Jean Lonsdale 162, 170, 178
Jean Winstanley 55, 75
Jeff ? 120
Jeff Clegg 29, 35
Jennifer Davies 67, 88, 101
Jenny Corrin 80, 85, 88, 96, 101, 102, 105, 108, 109, 112, 113, 120, 123, 124, 127, 128, 132, 133, 134, 137, 138, 145, 148, 152, 155, 158, 160, 162, 165, 166, 170, 173, 175, 178, 181, 183, 184, 185, 192, 201, 210, 215, 222
Jenny Pinder 182, 183
Jenny Plucknett. *See* Jenny Sloan
Jenny Sloan 111, 170, 222
Jenny Walshe 155
Jens Søndergaard 175
Jeremy Masters 102
Jerry Brookes 85
Jesús Aja 13, 28
Jesús ‘Chuchi’ Ruiz Cobo 8, 9, 113, 114, 134, 136, 138, 148, 155, 165, 185, 196,

198, 199, 214, 299, 300
 Jez Wong 210, 215, 222
 Jill ? 88
 Jill Studholme 102
 Jim Abbott 101
 Jim Davis 42, 75, 80, 81, 82, 83, 85, 88, 92,
 96, 102, 109, 128, 137, 138, 145,
 152, 153, 154, 160, 165, 175, 189,
 191, 215, 218
 Jim Eyre 152, 153
 Jim (HCC) ? 88
 Jim Lister 198, 215, 237, 255, 256, 263
 Jimmy Rattray 72, 80, 85, 96, 120, 148, 154
 Jim Sloane 166
 Jim Wilcox 29, 30
 Jivero 2, Cueva de 16, 123, 149, 169
 Jivero 3, Cueva de
 sump index entry 260
 Jivero I, Cueva de 16, 107, 146, 257
 diving summary 255
 sump index entry 260
 JJ. *See* Jon 'JJ' Beavan
 Joanne Casson 148, 158, 166, 178
 Joanne Drummond 206
 Joaquin González Echegaray 12, 265
 Jody Hibbert 215
 Joe. *See* David 'Joe' Turner
 Joe Dickinson 101, 102, 105, 109, 113, 120,
 123, 124, 128, 134, 138, 148, 152,
 155, 162, 185, 189, 192, 201
 Joe's Lost Cave 101, 226
 John ? 206
 John Alexander 39, 40
 John 'Baby' ? 58
 John Beckley 102
 John 'Biff' Biffin 175
 John 'Big Nose' Palmer 58, 63, 66, 72, 80,
 85, 96, 102, 109, 113, 120, 127,
 138, 170
 John 'Buddha' Yeadon 22, 29, 55, 63
 John Clarke 192, 193, 194, 201, 210, 212,
 222, 225
 John Cooper 124
 John Dee. *See* John Dickinson
 John Dickinson 22, 24, 29, 39, 42, 43, 44,
 47, 53, 55, 58, 61, 63, 67, 70, 75, 85,
 88, 90, 96, 101, 102, 105, 109, 113,
 120, 123, 124, 126, 128, 134, 138,
 148, 152, 155, 162, 174, 185, 189,
 192, 201, 206, 209, 222
 John Dobinson 88, 92, 96, 105, 133, 138,
 141
 John Forder 59, 117, 134, 166, 175, 177
 John 'Geordie' New 72, 75, 80, 109
 John Gillett 80
 John 'Hatstand' Osborne 206
 John 'JC' Cope 20, 21, 22, 29, 39, 42, 96, 109
 John Lally 58, 59, 67, 72, 88
 John 'Lugger' Thorp 58, 63, 66, 67, 72, 96,
 196, 197, 201, 204, 243, 300
 John Naish 29, 30, 32, 33, 39, 40
 Johnny Baker 134, 135, 136
 Johnny 'Dingle 3' Latimer 198, 201, 206,
 210, 215, 222
 John Pemberton 222, 224
 John (Portsmouth) ? 85
 John Southworth 201, 204, 206, 209, 210,
 212, 214, 215, 217, 222, 223, 224,
 225, 239
 John Stevens 148, 152, 154
 John Stott 66
 Jolien Martin 183

Jonas Binladen 25, 111, 160, 162, 166, 173,
 175, 178, 184
 Jonathan Sims 102, 137, 152, 158, 165, 173,
 183, 197, 204
 Jon 'JJ' Beavan 67, 80, 96, 102
 Jon Whiteley 189
 Jon Witchett 206, 208
 Jordi (Catalan) 128, 133
 José Antonio 90, 101
 Jose Luis Peredo 14
 Josep (Catalan) 170
 Jo Warren 184
 JRat. *See* Tony 'JRat' Jarratt
 Juan Carlos Fernández Gutiérrez 12, 13, 14,
 16, 17, 22, 26, 69, 85, 114, 203, 218,
 222, 244, 265, 302
 Juan Corrin 1, 6, 7, 9, 10, 29, 30, 39, 42, 47,
 53, 55, 57, 58, 59, 63, 65, 67, 68,
 69, 75, 76, 80, 85, 86, 88, 90, 96,
 101, 102, 105, 108, 109, 112, 113,
 120, 123, 124, 127, 128, 132, 133,
 134, 137, 138, 142, 143, 145, 148,
 152, 155, 157, 158, 159, 160, 161,
 162, 165, 166, 170, 172, 173, 174,
 175, 178, 182, 183, 184, 185, 186,
 188, 189, 192, 196, 197, 198, 201,
 204, 206, 210, 213, 214, 215, 222,
 223, 239, 240, 245, 250, 265, 287,
 300, 305
 Juan Lombrero, Cueva de 129, 134, 137,
 140, 141, 146, 153, 306
 Australia 141
 close to Breakdown Chamber (Reñada)
 141
 Good Friday the 13th Extensions 153
 Stop Go 153
 survey 140, 153
 Juan Ullastre 17
 Juan Usera 14
 Jude Onions 215, 222, 227, 235
 Judy ? 102
 Jules ? 105
 Julian Todd 175, 206, 207, 215
 Julian 'Veg' Smith 72, 80
 Julia Robinson 128
 Julie Addis 53, 55, 58, 67, 72, 73
 Julie Bridgeman 47, 58, 59, 62, 63, 65, 67,
 68, 72, 75, 80, 102, 103, 105, 109,
 112, 113, 120, 124, 127, 128, 132,
 133, 134, 138, 145, 148, 152, 155,
 160, 173, 185, 189, 192, 198, 201,
 210, 222
 Julie Cawthorne 67, 72, 85, 88, 101, 102,
 105, 108, 109, 112, 113, 120, 123,
 124, 127, 128, 132, 133, 134, 137,
 138, 145, 148, 152, 155, 160, 162,
 166, 170, 178, 185, 189, 192, 201,
 206, 210, 215, 222
 Julie 'Goldie' Davies 20, 22, 29, 39, 42, 53,
 55, 58, 67, 85, 88, 101
 Julie Mundy. *See* Julie Addis
 Julie Skorupka 120, 127, 128, 165
 Juliet Morse 175
 Julie Whitney 201
 June Davey. *See* June Rattray
 June Rattray 22, 29, 72
 jungle 42, 51, 57, 73, 120, 132, 136, 166,
 167, 185, 189, 203, 215, 226
 Jurassic 265, 266, 267, 282
 Justin Haigh 109

K

Karen ? 133
 Kåre Øst 173, 206
 Kate ? 85, 120, 146, 152
 Kate 'Beer Kate' Russell 145
 Kate Martin 109, 110
 Kate 'President Kate' S 145
 Katie Mason 192
 Katie Steckles 215
 KCC 32, 33, 36, 39, 42, 47, 175, 306
 club rivalry 39
 Keef. *See* Keith 'Keef' Jackson
 Keiran Rooney 192, 201, 222
 Keith ? 105
 Keith 'Keef' Jackson 109, 120, 123, 127,
 133, 170, 175
 Keith Lewis 75, 80, 83
 Keith Plumb 6, 22, 23, 58, 85
 Kendal Caving Club. *See* KCC
 Ken Passant 206, 207
 Kevin Brohan 215, 222
 Kevin Manktelow 96
 Kev Millington 152, 155, 158, 159, 160,
 162, 165, 166, 170, 175, 178, 182,
 188, 192
 Killer. *See* Mark 'Killer' Smith
 Kim ? 55
 Kimmeridgian 267
 Kirsten Pollock 102
 Kirsty Bamber 215
 Kirsty Olivant 145
 Kristine Korsgaard 25, 160, 166, 170, 175,
 189, 219, 220
 Kunka, Torca 200

L

La Alcomba 280
 Laberinto, Cueva del. *See* Maze Cave
 La Cavada 39, 163, 168, 193, 257, 278, 279,
 280, 283
 La Cuvia 68, 120, 149, 152
 La Cuvia de la Vega 158, 159
 La Gatuna 1, 53, 63, 64, 124, 125, 132, 137,
 184, 185, 190, 209, 217, 225, 238,
 306
 La Gatuna, Cubio de 53
Lamellibranchs 265, 273, 280
 La Mina 5, 177, 190, 204, 210, 214
 Lammas, Cueva 136, 143, 203
 Langdales, The 211, 216, 238
 Lank. *See* Laurence 'Lank' Mills
 La Piluca 1, 67, 291
 Lard Boy 145
 Laredo hospital 124, 126, 146, 189
 Las Bernillas 271, 279, 281
 Las Calzadillas 3, 4, 180, 181, 210, 280, 291
 La Secada 1, 2, 5, 11, 87, 98, 111, 113, 114,
 131, 134, 136, 145, 148, 149, 161,
 164, 175, 187, 189, 210, 226, 284,
 285, 286, 291, 295, 306
 Cuevas de La Secada 11
 Lastrilla 66, 76, 197, 297, 306
 Lastrilla, Torca de 66, 297
 Minstrels' Gallery 66
Latomeandra felixi 279
Latomeandra larioli 279
 Laura ? 148
 Laurence 'Lank' Mills 18, 20, 21, 22, 29, 39,
 42, 55, 63, 67, 75, 80, 85, 88, 96,
 101, 102, 105, 108, 112, 120, 123,

- 127, 133, 134, 137, 145, 148, 152, 155, 160, 166, 175, 185, 189, 192, 198, 206, 210, 215, 222, 265
- La Vega** 1, 2, 3, 4, 5, 12, 17, 30, 47, 52, 56, 58, 63, 64, 65, 67, 72, 76, 89, 90, 96, 101, 104, 105, 110, 113, 118, 120, 121, 122, 123, 124, 128, 134, 135, 137, 140, 143, 146, 148, 152, 153, 154, 155, 156, 158, 159, 160, 162, 165, 166, 167, 169, 170, 171, 172, 173, 174, 176, 178, 181, 182, 185, 188, 189, 191, 192, 200, 203, 204, 208, 210, 213, 214, 215, 226, 240, 245, 255, 262, 271, 281, 282, 284, 285, 291, 292, 293, 295, 296, 297, 298, 300, 305, 306
- possible cave under valley floor 203
- La Vega bar** 2, 58
- Lea Ziebold** 210, 212, 214, 222
- Lee ?** 138
- Leg Iron.** *See* Ian 'Leg Iron' Lloyd
- Le Karst de la Depression de Lignes Fermées de Matienzo (Santander-Espagne)** 16
- Lenny Gee** 39, 53, 67, 72, 75, 85, 88, 101, 109, 113, 120, 124, 128, 134, 138, 148, 170, 178, 192, 201, 222
- Lesley James** 75
- Lesley Sagar** 42, 47
- Les Williams** 175, 176, 184, 189, 198, 206, 207, 215
- levels of development** 296–298
- Liam Wright** 145, 152, 154
- Lierganes** 239
- lignite** 266, 267, 268
- limestones** 265–288
- marly limestones 268, 272, 273, 274, 276, 277, 278, 279, 321
- Pseudo Oolitic limestones 269
- Reef limestones 269
- sandy limestone 109, 273, 277
- Zoogenic brecciated limestones 269
- Linda Clegg** 192
- Linda ? DCC** 178
- Linda Dickinson** 39, 42, 47, 50, 53, 55, 58, 61, 63, 67, 75, 85, 88, 96, 101, 102, 105, 109, 113, 120, 123, 124, 128, 134, 138, 148, 152, 155, 162, 185, 189, 192, 201, 206, 222
- Linda Martin** 166
- Littorina obtusata** 299
- Lituolids** 278
- Liverpool University Potholing Club.**
See LUPC
- Liz Cowell** 106, 108, 112, 113, 114, 118, 120, 121, 123, 127, 128, 133, 134
- Liz Kitts** 152
- Liz Taylor** 85, 88, 101, 109, 113, 170, 178
- Liz Turner** 53, 55, 58, 63, 67, 72, 75, 80, 85, 88, 96, 101, 102, 105, 109, 113, 120, 124, 128, 134, 155, 162
- Liz Walton** 75, 77, 78, 80, 96, 102, 105, 120, 155, 178, 192, 222
- Llanío, Cueva-Cubío del** 4, 225, 239, 296, 306
- first explorations 218
- Jovens' Loop 225
- Left Ladders Series 225, 239
- Playing Card House Pushover 225
- Pulse Racer 225
- Terminal Decline 225
- Whoopee Hall 225
- Yorkshire Passage 225
- Lloyd Cawthorne** 101, 102, 105, 108, 109, 112, 113, 120, 123, 124, 127, 128, 132, 133, 134, 137, 138, 145, 148, 152, 155, 160, 162, 166, 170, 175, 178, 185, 189, 192, 201, 206, 210, 215, 222, 237
- Lloyd Dawes** 128, 129
- Llueva** 1, 3, 4, 38, 39, 40, 42, 43, 47, 49, 52, 54, 55, 56, 57, 59, 62, 63, 64, 73, 75, 76, 77, 78, 80, 81, 82, 83, 84, 86, 87, 88, 105, 120, 122, 124, 125, 127, 132, 136, 159, 160, 163, 164, 166, 175, 184, 196, 199, 202, 203, 204, 205, 206, 207, 213, 215, 216, 217, 220, 221, 225, 226, 239, 240, 243, 244, 248, 256, 260, 287, 288, 291, 298, 304, 306
- Llueva, Cueva** 3, 4, 38, 39, 40, 42, 43, 52, 54, 55, 56, 57, 59, 62, 63, 75, 77, 78, 80, 81, 86, 88, 105, 120, 122, 124, 199, 202, 204, 205, 206, 207, 216, 217, 220, 239, 240, 243, 244, 256, 260, 291, 306. *See also* Biggo; *See also* diving
- 3 chokes 207
- 2007 extensions 202–203
- photo 203
- Andy Quin's Foot 78
- Big Bang Burger Bar 54, 220
- Big Red Knob Room 205, 220
- breakthrough towards Hoyuca and Carcavueso 78
- dig and first explorations 39
- Drain Tester 81
- Fault Passage 199, 217
- first upstream exploration 40
- flooding 203, 207
- Left-hand Bypass 40, 54, 55
- Life, the Universe and Everything 54, 216, 220
- linked to Carcavueso 84
- Palaeokarst Passage 203
- Pudding Passage 80
- Rhinoceros 78, 84, 154
- Rhinoceros 77
- Right-hand Bypass 54, 203
- Righthand Bypass 41
- Sandstone Inlet 73
- Smack 81, 84
- smoke test through from Cueva Hoyuca, 1981 59
- sump index entry 260
- Llusa, Cueva de** 11, 299, 300
- Loca, Cueva de la** 12, 13, 16, 127
- Lopha rectangularis** 275
- Lorca, Torca** 128
- Lorraine McCartan** 210
- Lou 'Biff' Biffin** 175
- Louise ?** 55
- Louise Korsgaard** 160, 162, 166, 170, 173, 175, 188, 206
- Lou Williams** 42
- Lower Albian** 271, 274
- Lower Cenomanian** 275, 276, 280
- Lower Cretaceous** 266
- Lower Gargasian** 277
- Lower Urganian** 266
- Lower Valanginian** 265
- Lugger.** *See* John 'Lugger' Thorp
- Luigi 'Italian 2' ?** 75
- Luke Hampson** 215
- LUPC** 72, 145, 153
- Lynette Willoughby** 29
- Lynn Beattie** 96
- Lyn Pirie** 155

M

- Macrocephalites** 265
- Mad Axe Woman** 154, 155, 157, 162
- M^a del Carmen de la Fuente González** 58, 63, 66, 67, 72, 75, 80, 85, 88, 96, 101, 102, 105, 108, 109, 112, 113, 120, 123, 124, 127, 128, 132, 133, 134, 137, 138, 158, 160, 162, 165, 166
- Mad Mike.** *See* Mike 'Mad Mike' King
- Madoz dictionary** 11
- Madphil.** *See* Phil 'Madphil' Rowsell
- Maggie Devlin** 53, 58
- magnetic susceptibility studies 298
- Malbujero** 286
- Manchester University Speleological Society.** *See* MUSS
- Manchester University Speleology Club** 237
- Mandy Fu** 210, 213, 215, 222, 230
- Mantequilla, Cueva** 206
- Marcus Evans** 145, 160, 162, 198
- Mareserection Hole** 198, 201
- Marion Hale** 85, 96, 102
- Marjorie Smith** 105
- Mark ?** 74, 75, 80
- Mark Brown** 148
- Mark 'Gonzo' Lumley** 124
- Mark 'Killer' Smith** 138, 145, 152, 155, 162, 165, 170, 182, 189, 210
- Mark 'LUPC-1' D** 72
- Mark 'LUPC-2' B** 72
- Mark Madden** 124
- Mark Murray** 72, 74
- Mark Rider** 109
- Mark Shinwell** 296
- Mark Smith** 144, 146, 160, 235, 236, 244, 246, 255, 257, 258, 259, 260, 262. *See also* Mark 'Killer' Smith
- Mark Whyte** 215
- Mark Wild** 138, 184
- Mark Wright** 109, 110, 113, 114, 115, 120, 145, 152
- marls** 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 284, 288, 292
- Marmolista, Cueva de** 304
- Martin ?** 53, 63, 88, 124
- Martin 'Barney' Barnicott** 198, 200, 204, 206, 210, 214, 222
- Martin Clarke** 21, 29
- Martin ? (DCC)** 53
- Martin Delamere** 72, 75
- Martin Holroyd** 111, 120, 121, 133, 145, 146, 152, 160, 165, 170, 175, 229, 241, 246, 248, 249, 254, 255, 257, 264
- Martin Northcott** 124
- Martin Spicer** 72, 74
- Martin Upfold** 124, 128
- Martyn Tunstall** 75
- Matienzo**
- 50 bar crawl 52
- age of depression 294
- apartments 99
- cave length 10
- caves as Civil War hideouts 5, 12, 136, 302
- caves - smallest 169

- caving beginnings 12
dances 5
depopulation 2, 5
drilling for oil 5, 267, 282
drinking 90–91
 sheets incident 32
evolution of the depression 285
farming 1, 5, 11
fault 281
fiestas 30
 San Martín 21, 22, 158, 171, 182
flooding 1, 42, 83, 98, 162, 206
 clearing Carcavuezo 80
 periodic 11
 worst in living memory 5
hailstones 148, 176
hospitality 23, 29, 29–30, 30, 36, 65
 house lending 44
journey to 18, 22–25, 27, 42, 50, 82, 98,
 101, 204, 229
 boat breakdown 55
 van breakdown 20
meals 30, 32, 42, 46
mist-filled 19
mobile phone network 203
pastimes
 crochet 30
 fishing 30
 haymaking 32
 lessons on Spanish cooking 30
 maize planting 30
 weaving with hazel twigs 30
politics
 Franco's dictatorship 5
poor weather 29, 43, 69, 133, 134, 162,
 188, 206–209, 252, 255
population 5
properties bought 100, 101
restaurant at Pablo's being built 112
Restaurant kitchen at Pablo's 112
schools 5
street lighting 44, 50
- Matthew O'Donnell 148**
Matt St Clair 206
Matt Traver 206
Max ? 75
Max Dobie 148, 152, 158, 166, 178
Maze Cave 222, 239
 survey 223
Mazo, Cueva del 62, 163, 192
Mega Mujer, Torca de 65, 66, 76, 171, 200,
 205
Megan Whyte 215
Mel Lloyd 166
Mendip Nature Research Committee 135,
 306
Miacea 278
Miáceos 278
Michael Finegan 185, 192
Michael 'Slug' Hale 63, 67, 72, 75, 80, 85,
 96, 162
Michael 'Squirrel' Wood 22, 29, 39, 55, 63,
 67, 72, 178
Mick ? 75
Mick Hanley 47, 53
Mick Nunwick 96, 101
Mick Rye 85
Middle Purbeckian 265
Miera 174, 234, 271, 282, 284, 294, 305
Mig 124
Miguel Ángel García Guinea 12, 265
Mike ? 88, 124
- Mike Alderton 160, 249**
Mike Bertenshaw 75
Mike Bottomley 201
Mike Heard 96, 113
Mike James 75
Mike Latham 88, 89
Mike 'Mad Mike' King 120
Mike Meehan 109, 110
Mike Reid 152
Mike Salt 206
Mike Smith 72
Mike Topsom 210, 211, 213, 215
Mike 'Wingnut' Riley 88, 96, 102
Mike Wright 80, 81, 82, 83, 84, 85
Mililids 278, 279
Milly 85, 88
Miranda Forder 160, 166, 175, 177
Miranda Sandys. See Miranda Forder
MNRC 175, 306
Molephones. See clothing & equipment for
 caving: Molephones
Molino, Cueva del (Bustablado) 12, 125,
 138, 145, 242, 248, 249, 250, 251,
 261, 291, 297
 diving summary 250–255
 Fools Paradise 127
 sump index entry 260–261
 survey 253
Molino, Cueva del (Bustablado resurgence)
 sump index entry 261
Molino, Cueva del (Matienzo). See Agua,
 Cueva del
Moncobe 193
Monica Rodríguez Comte 214
Monte del Infierno 271, 280, 284
Monty. See Ian 'Leg Iron' Lloyd
Morenuca, Cueva de la 121, 123, 124, 129,
 215, 218, 226, 296, 297, 306
 El Camino de la Luna 226
 Lampblack Pitch 124
 link to Mostajo 123
 link to Regatón 129, 131
 Magic Carpet 123
 part survey (2009 extensions) 216–217
 Sick-inside Passage 129, 131, 215
 Stair Rod pitch 129
 through trip to Mostajo 129
Morgannwg Caving Club 105
Mortiro, Cueva del
 first exploration 28
 sump index entry 261
Mortiro, Torca de (Ideopuerta) 174, 175
Mostajo, Torca del 47, 48, 68, 69, 72, 73, 74,
 75, 76, 77, 78, 80, 81, 85, 88, 90, 91,
 104, 108, 112, 120, 121, 123, 124,
 129, 144, 183, 296, 297, 298, 306
 6 days of digging 69
 Dwarf Chamber 74
 Easyrider Passage 121
 first exploration 47
 Going Home series 74, 75
 Golden Void 72, 73, 75, 76, 77, 90, 129
 Hedgehog Crawl 73, 74, 77, 85, 121, 129
 Quiberon Passage 74, 75
 scale into extensions 68
 The Pit 69, 76
 Wonderland 74
Moure 265
Mr Reluctant. See Vince 'Mr Reluctant' ?
MUAASS 221
MUAUSS 88, 306
Muela 1, 4, 35, 42, 55, 57, 62, 69, 73, 85,
 89, 97, 100, 102, 105, 125, 132,
 149, 155, 162, 169, 172, 174, 177,
 182, 184, 196, 205, 213, 270, 280,
 281, 306
Muesa, Torca de 182
Mullir 1, 4, 11, 12, 55, 57, 148, 149, 172,
 174, 184, 190, 206, 208, 270, 280,
 281, 283, 285, 291, 295, 306
 Pozo de Mullir 11
Munieria baconica Deeck 280
MUSC 212, 213, 230, 306
Museum of Prehistory, Santander 12, 13,
 16, 33, 52, 128, 155, 299
Mushroom. See Nick 'Mushroom' Powell
Mushroom Field 62, 68, 154
MUSS 18, 20, 21, 22, 23, 32, 41, 52, 53, 57,
 88, 175, 306
- N**
- Nacimiento del Río Clarín 1, 62, 125, 242,**
 247, 256, 261
 first exploration beyond sump 34
 sump index entry 261
Natalie Fretwell 210
Natasha 'Tash' Koffey (Mitchel) 184
Natash 'Tash' Watson 120, 124, 128
Natica cf. praelonga Deshayes 272
Natica piinoni 278
NCC 175, 306
Neanderthals 299
Neil ? 53
Neil Pacey 105, 109, 112, 120, 121, 170, 175
Neil Phillips 204
Neil Robertson 67, 75, 80, 259
Neithea morrisi 272, 273
Neithea paulii Land. 272
Neithea quadricostata Orb. 272
Neithea quinquecostata Sow. 275
Neotrocholina valdensis Reichel 265
Nerinea 273, 275, 276
Nerinea cf. matronensis Orb. 273
Nerineas 276, 279
Nerinea sp. 275
Nick ? 67, 75
Nick Fincham 206, 207, 215, 221
Nicki Openshaw 166, 170, 174, 178, 183
Nicki Pierce 215
Nick Jones 105
Nick Moulton 206, 207
Nick 'Mushroom' Powell 138, 155, 170, 188
Nick Rose 113
Nick Seaton 152
Nick Smith 109, 110
Nick Standing 88, 96, 102, 105
Nicky ? 85
Nicky Dennis 215
Nigel ? 138
Nigel Cass 201, 202, 203
Nigel Dibben 9, 10, 39, 47, 55, 58, 63, 75,
 85, 88, 101, 109, 113, 148, 170,
 178, 201
Nigel Musson 72
Nigel Ohlsen 189
Nigel Robertson 112
Nigel Strong 192
NMCC 142, 306
Noddy. See David 'Noddy' Nodding
No-Do 9, 13
 Imagenes: Estudio de Espeleología 16
 stills from film 13
Noel Llopis Lladó 12, 16, 265

Noja 99
Norman Flux 148
North Manchester Caving Club
. See NMCC
North Vega System 3, 105, 123, 129, 218,
226, 296, 297. *See also* Cubija
System
NPC 153, 175, 306
Nyctalus Lasiopterus 204

O

Obras Hidráulicas Y Ciclo Integral Del Agua
3, 188
Obvious. *See* Ron 'Obvious' Taylor
Ochetoceras 265
Ogarrio 1, 11, 39, 45, 46, 55, 58, 96, 98, 99,
100, 153, 281, 283, 284, 286, 299,
306
Bar Tomás. *See* Bar Tomás
Olga García 123, 127
Oliver Lloyd 82
Olwyn Tringham 72, 75, 120
Oñite, Cueva 26, 29, 187, 188, 192, 261
first "tackle-less" through trip 192
Gulag Gallery 188
Mavrino 26, 187, 188
sump index entry 261
Orbitolina aperta 273, 274
Orbitolina concoidea 276
Orbitolina discoidea 276
Orbitolina (Mesorbitolina) texana 280
Orbitolinas 272, 273, 274, 275, 276, 277,
278, 279, 280, 281
Orbitolina scutum Fritch. 272, 275
Orbitolina trochus Frist. 275
Orbitolinopsis simplex 280
Orchard Cave 43, 84, 162, 168, 212
missed lead 43
Orillón, Cueva del 13, 14, 16, 123, 286, 300
Orillonzuco 286
Ostracods 280
Ostrea aquila Goldf. 272
Ostrea sp 276
Ostreidae 265, 271, 272, 273, 275, 276
ostriches 147
Otero, Cueva del 11, 299
overhang 295
Oxford University expedition 18
Ozana 1, 4, 26, 107, 114, 120, 123, 125, 146,
163, 187, 192, 200, 213, 226, 282,
284, 285, 291, 306

P

Pablo 30, 46, 90, 95, 99, 108, 112, 128, 147,
189, 206, 219, 233
Paco ? 134
Palette Hole 204, 209, 210
Paloma Stacey 162
Palorbitolina lenticularis 280
Pam Henson 22, 39
Pam Mundy 96, 102, 105, 113, 124, 240
Pants, Pile of 154, 157, 161, 162, 164, 175,
183
Papá Noel, Torca de 2, 3, 148, 150, 152,
153, 158, 159, 166, 170, 171, 173,
176, 178, 181, 188, 189, 192
BBQ at Saucepan Street 171, 173, 176,
177
Belcher's Slab 149, 150, 176, 177

Brown Sugar 149
Cheesecake Chambers 177
CIC Series 176
Disco Max 148
entrance found 146
Express Crawl 178
Floorless Chamber 177, 189, 192
Hall of the Tubes 181, 188
Hole in the Wall 178, 192
Incredible Chamber 146
link to Azpilicueta (At the Opera) 181
link to Coterón at Paper Plane 170
link to Reñada (Itchy Crutch) 158, 170–171
Paper Plane 170, 189
Peek Hole Pitch 177
photos & survey 150–151
Place de Concorde 148, 149, 152
Plaza de Concorde 170, 176
Poppadom Passage 149
Scandinavian Airways 176
Tailwind Passage 177, 178
Teamwork Pot 148, 166
The Rodeo 171
Tumbling Dice 148, 170, 171
pasabolo 90–91, 98, 101
Patatal, Cueva del 11, 12, 13, 16, 17, 132,
134, 210, 285, 286, 299, 303
gating 132
Patrick Devine 53, 55, 58, 63, 67, 72, 80, 88,
102, 108, 120, 123, 148, 155
Patrick Warren 184, 185, 192, 201, 206,
215, 218, 222
Patterdale Pot 216
Paula ? 120
Paul 'Beardy' Swire 124, 134
Paul Clement-Walker 222, 223, 226
Paul Dickinson 22
Paul Dold 6, 189, 190, 191, 196, 198, 201,
202, 206, 207, 210, 215, 217, 218,
219, 220, 221
Paul Dyson 85, 109, 110
Paul 'Ferret' Newman 123, 127
Paul 'Footleg' Fretwell. *See also* Footleg
Paul 'Footleg' Fretwell 189, 192, 196, 198,
201, 202, 206, 210, 215
Paul Gelling 39, 42, 45, 47, 52, 55, 58, 63,
64, 67, 72, 80, 120, 121, 122, 123,
148, 149, 178, 192, 193, 198, 199,
222, 225
Paul Gladman 138, 155
Pauline Holden 214, 215
Paul Mackrill 160
Paul Saville 88, 89
Paul Stacey 74, 88, 89, 96, 100, 102, 103,
105, 108, 109, 110, 112, 113, 114,
120, 121, 122, 123, 124, 127, 128,
133, 138, 140, 141, 142, 143, 145,
146, 148, 149, 152, 162, 198, 199,
200, 201, 202, 203, 206, 207, 208,
209, 220, 221
Paul Taylor 63, 64
Paul Windle 152, 160, 161, 189, 191
Pavol Červeň 178
PCG 175, 306
Pecten quinquecostatus 276
Pectinids 274, 280
Pedro. *See* Pete 'Pedro' Smith
Pedro Prieto 134
Peltastes clathratus Coott. 275
Peltastes clathratus Cott. 275
Peña Cubillones 12
Peña Jorao, Covachos de 101, 104, 115, 304

Peñarrobra, Cueva de 132
Penny Corrin 42, 44, 47, 53, 55, 57, 58, 63,
67, 80, 85, 86, 88, 96, 101, 102, 105,
108, 109, 112, 113, 120, 123, 124,
127, 128, 132, 133, 134, 135, 137,
138, 145, 148, 152, 155, 158, 160,
162, 165, 166, 170, 173, 174, 175,
178, 182, 183, 184, 185, 188, 189,
192, 196, 197, 198, 201, 204, 206,
210, 214, 215, 222, 239, 240, 243
Penny's Cave 58, 66, 81, 84, 113, 259
linked to Colmenas 113
sump index entry 259
Pepe ? 148
Pepe (Bar Las Nieves) 50
Pepe (Catalan) 113, 170
Peplosmilia sp. 274, 288
periglacial activity 294
permit 174
late permit, 2005 184, 188
refused for 1990 100, 101, 116
Permocalculus inopinatus Elliot 280
Pete Hall 109, 111, 113, 114, 115, 116, 117,
120, 121, 122, 123, 134, 136, 152,
153, 155, 156, 170, 171, 178, 180,
185, 186, 188
Pete Jones 184
Pete Martin 166
Pete Morgan 201, 204, 206, 209, 215
Pete O'Neill 72, 73, 74, 75, 120, 121, 122,
124, 125, 127, 128, 129, 133, 136,
138, 143, 144, 145, 146, 147, 152,
153, 154, 175, 178, 180, 181
Pete 'Pedro' Smith 22, 29, 39, 42, 47, 53,
55, 58, 63, 66, 67, 72, 75, 80, 85, 88,
96, 101, 102, 105, 108, 109, 112,
113, 120, 123, 124, 127, 128, 132,
133, 134, 137, 138, 145, 148, 152,
155, 158, 160, 162, 165, 166, 170,
173, 174, 175, 178, 182, 183, 184,
185, 188, 189, 192, 196, 198, 201,
204, 206, 210, 214, 215, 222, 239,
240. *See also* Peter Smith
Pete 'Pete The Feet' Robinson 75, 85, 102
Pete Pollard 192
Pete 'Portienzo Pete' ? 75
Peter Adams 201
Peter Čarný 178, 180
Peter 'Chester' Shaw 152
Peter Clewes 178, 192, 201, 210, 212, 222
Peter Crawl
sump index entry 261
Peter (Dutch caver 2) 96
Peter Eagan 15, 25, 38, 40, 48, 63, 72, 73,
74, 88, 92, 96, 97, 101, 102, 103,
104, 105, 106, 107, 108, 109, 110,
111, 112, 113, 114, 116, 117, 118,
119, 120, 121, 123, 127, 128, 129,
131, 132, 133, 134, 135, 136, 138,
140, 141, 142, 143, 145, 146, 147,
148, 149, 150, 152, 154, 155, 156,
157, 160, 161, 162, 163, 164, 166,
167, 170, 175, 176, 177, 178, 179,
180, 182, 183, 184, 185, 186, 187,
189, 190, 191, 192, 193, 194, 195,
197, 198, 199, 200, 201, 202, 203,
204, 206, 209, 210, 211, 213, 214,
215, 216, 220, 296
Peter Fast Nielson 178, 184, 188, 206, 207,
222
Peter Plummet 62, 120, 125, 170, 242, 243,
246, 247, 248, 256

diving summary 247–248
 sump index entry 261

Peter Smith 5, 8, 9, 11, 22, 25, 26, 37, 45, 54, 90, 91, 128, 155, 159, 221, 265, 299, 303, 304. *See also* Pete ‘Pedro’ Smith

Peter ‘Snablet’ McNab 102, 137, 145, 160

Peter ‘Snab’ McNab 160, 166

Peter ‘Tarn’ Martin 183

Pete Seed 80, 81, 84

Pete ‘Slasher’ Asher 39, 42, 58

Pete Smith 22, 30, 36, 42, 45, 48, 57, 62, 65, 101, 102, 103, 104, 105, 110, 174, 221, 250. *See also* Pete ‘Pedro’ Smith; *See also* Peter Smith

Pete The Feet. *See* Pete ‘Pete The Feet’ Robinson

Pete Ward 72, 73

Petirrojo, Cueva del 197

Phil ? 42, 73, 120

Phil Berrie 42, 43, 47, 52, 53, 55

Phil Boardman 42, 72, 73, 75

Phil Collett 29, 36, 113, 116, 117

Phil Cunningham 85

Phil Elsdon 123

Phil Endecott 102, 103

Phil Gazard 83, 85

Phil Goodwin 206, 209, 214, 215, 239

Phil ‘Madphil’ Rowsell 175, 198, 206

Phil Miles 73, 105, 106, 107, 109, 110, 111, 113

Phil Papard 4, 6, 7, 43, 44, 47, 48, 49, 52, 54, 56, 69, 74, 75, 76, 78, 100, 103, 104, 107, 109, 110, 111, 114, 116, 121, 158, 167, 177, 187, 200, 206, 207, 208, 212, 213, 214, 216, 218, 222, 223, 225, 226, 233, 236, 241, 243, 244, 245, 246, 247, 248, 250, 257, 258, 260, 261, 264. *See also* Phil ‘Salford’ Papard

Phil Parker 222, 223, 224, 225

Phil ‘Phil TJ’ ? 85

Phil ‘Salford’ Papard. *See also* Phil Papard

Phil ‘Salford’ Papard 39, 42, 47, 53, 55, 58, 63, 72, 75, 80, 85, 88, 96, 101, 102, 105, 108, 109, 112, 113, 120, 124, 127, 128, 134, 137, 138, 145, 148, 152, 155, 158, 160, 162, 165, 166, 170, 173, 175, 178, 182, 183, 184, 185, 188, 189, 192, 196, 198, 201, 204, 206, 210, 214, 215, 222, 239, 240

Phil Underwood 210, 212

Pholadomya aff. sphaeroidalis 278

photography. *See* recording & documenting: photography

phreatic passages 3, 32, 40, 58, 59, 66, 76, 78, 80, 84, 88, 91, 94, 100, 102, 103, 108, 110, 113, 120, 121, 124, 133, 135, 137, 143, 146, 148, 154, 160, 163, 176, 177, 195, 196, 219, 229, 296, 297

Phyllocoenia cyclops 279

Phyllocoeniopsis exculpta 279

Picón, Simas del 17, 47, 72, 109, 110, 111, 112, 215, 297, 306

Picos de Europa 18, 29, 173, 281, 282, 289, 298

Piedrashitas 217, 218

Piedrashitas, Torca de 218

Piers Barrington 67, 72, 85

Pig Nut Pot 195, 202

Piluca 1, 67, 136, 146, 154, 291, 306

Piluca, Sima de la 67, 136, 146
 first exploration 67

Pino, Torca del 76

Pintó Gallery (Risco) 11, 299

Piuco 43, 44, 45

Placosmia cf. Arcauta 279

Pleurosmilia nov. Sp. 279

Pleurosmilia sp. 276

***Plicatula radiola* Lam.** 272

Plymouth 53, 55, 83, 88, 304, 306

Poliperos 275

pollen 293, 294, 298

Polyconites 272, 275, 276, 277, 279, 288

***Polyconites bailei* Coq.** 272

***Polyconites verneuilli* Bayle** 272

Polyperos 276, 278, 279

Pooch Cave 216

Portienzo Pete. *See* Pete ‘Portienzo Pete’ ?

Portsmouth Polytechnic 57, 74, 85

Pozo de Guzmartín. *See* Agua, Cueva del

Pozo Nuevo 11

presentation
 Matienzo 1991 (21 years) 104
 Ramales 1987 87

President Kate. *See* Kate ‘President Kate’ S

Preston Caving Club 39, 306

Preying Mantis Pot 131, 156, 157

Prize Cock Pot 197

Prof. *See* Anthony ‘Prof’ Profit

Prophet’s Cave 201

Pseudocyclamina sp. 277

Pseudodiadema malbosii 278

Pseudotoucasia 278, 279, 288

Pseudotoucasia santanderiensis 278, 288

Puchas, Hoya de 42, 137, 159, 165

Puerta, Cueva de la 13

Purbeckian 266, 268

Q

Quinqueloculina sp. 277, 280

R

Rachel Mills 155, 192, 198, 222

Rachel Payne 206

radio location. *See* clothing & equipment for caving: Molephones

Ramales 1, 11, 13, 18, 19, 21, 23, 30, 46, 52, 55, 73, 74, 87, 91, 115, 143, 162, 173, 266, 267, 270, 282, 283, 284, 287, 289, 290, 294
 1986 caving video screening 46
 1986 plaque presentation 46

Ramona 12

Ramon (Catalan) 113

Ramon Quintana 123, 127

Rascavieja, Cueva de 11, 13, 17, 73, 75, 86, 155, 169, 205, 281, 285, 298, 300, 306

Rasines 73, 299

Ratón, Cueva del 110. *See also* Dormouse Cave

Ray Duffy 105, 120, 138

Ray McGarry 96

Rayo de Sol, Torca del 39, 49
 first explorations 39–40

R Brazier 112

Rebecca ‘Becka’ Lawson 175, 206, 215

recording & documenting
 aerial photos 22, 152, 265
 articles 8
 BCRA Transactions Vol. 8 no.2 58
 card index 8
 computers
 first use 80
 Cuadernos de Espeleología 13, 16, 17, 19, 20, 290
 vol. II overview 16
 database 8
 descriptions 8, 10
 ethos 200, 240, 305
 expedition report 28, 36, 47
 Caves & Caving 1981 62
 Caves & Caving 1982 65
 Caves & Caving 1983 69
 Caves & Caving 1986 84
 Caves & Caving 1988 89
 Caves & Caving 1995 122
 Caves & Caving 1999 144
 MUSS Journal 9 (1978) 52
 MUSS Journal 10, 1980 57
 The 1979 Expedition to Matienzo, Santander, N. Spain 54
 filming 13
 first scientific publication 16
 GPS 6, 8, 10, 42, 43, 112, 137, 148, 149, 152, 165, 166, 167, 169, 170, 177, 184, 185, 205
 first use 112
 tracks 170
 Hidden Earth 8
 information sharing 10, 305
 lecture 8
 logbooks 8
 maps 8, 10
 1:50,000 maps 8, 29, 265, 283
 1:5000 maps 53
 1:25000 and 1:10000 maps 22
 digital 204
 inaccurate 205
 military & 1:5000 examples 56
 number of sites 58, 101
 in 1979 53
 in 1986 84
 in 1995 122
 in 1997 132
 in 2000 149
 photography 8, 32
 helium balloon in the Astradome, Cueva Hoyuca 48
 poor 29, 43, 89
 posters 8
 slide show and video 1986 84
 surveying techniques & equipment 9
 Auriga software 207
 centre line 9, 204
 regional 10
 computer software 10
 computer use 9
 Disto 9, 169, 193, 196, 197
 DistoX 9, 217, 222, 226
 calibration problems 222
 errors
 in Cantones 103
 over 2km surveyed 48
 PDA 6, 9, 207, 222
 plotting by hand 9
 surface survey 42
 Survox 10, 122
 video 9, 84, 102, 104, 165, 186, 209
 1986 Ramales screening 46, 86

- Cobadal 180
 'spy' camera 170
 web site 10, 204
- Redondo, Cubio** 300, 302, 304. *See also* site 793
- Red Rose Cave and Pothole Club** 105
- Regato, Cueva del** 112, 114, 120, 131, 306
 survey 130
- Regatón, Torca del** 105, 106, 107, 108, 109, 110, 114, 121, 124, 129, 131, 186, 215, 261, 262, 296, 306
- 50m Error Passage 186
 Bos Choke 109
 GT Series 121, 129
 Lassie's Last Stand 109
 link to Cubio 109
 Peaky Passage 261
 Powerhouse Junction 186
 Powerhouse Passage 186
 Skye Passage 106, 108, 109, 186
 Spike Hall 261
 sump index entry 261–262
 Surprise View 109, 110, 121, 262
 Woodhouse Way 109
- Regino Rincón** 14
- Reguilón, Sima del** 13, 17, 85, 135, 149, 281
- Rellanos, Sima del** 17, 306
- Reñada, Cueva-Cubio de la** 2, 3, 11, 17, 21, 22, 25, 26, 27, 34, 35, 36, 37, 48, 57, 58, 59, 63, 64, 65, 67, 72, 74, 75, 76, 77, 78, 80, 81, 83, 84, 86, 88, 103, 104, 105, 107, 108, 110, 112, 113, 115, 118, 121, 123, 124, 126, 127, 128, 129, 136, 140, 141, 156, 158, 159, 160, 162, 169, 170, 171, 173, 192, 214, 215, 216, 242, 243, 244, 246, 255, 256, 258, 262, 263, 281, 287, 306
- Anastomoses Hall
 linked up to Floorless Chamber area of Papá Noel 192
 link to Papá Noel 192
- Blood Alley 22, 37, 214
 Blowhole 22
 Blow Hole 216
 Bootlace Passage 57, 59, 62, 65, 67, 68, 72, 76, 77, 86, 258, 262
 Breakdown Chamber 25, 124, 126, 129, 141, 244, 263
 Breakdown Chamber rescue 124
 Castle Hall 25, 160, 162
 Crowbar Passage 162
 diving
 summary 244
 upstream sump 35
 first dig and explorations 22
 Ghost Lake 25, 158, 262
 Giga Hall 57, 77, 80, 82, 84, 110, 121, 127
 Itchy Crutch 160, 171
 discovery 158–159
 Mega Hall 25, 158
 Moat of Doom 162
 Rub-a-Dub Dubs 127, 160, 162, 244
 Sanatogen Passage 64, 65, 67, 74, 77, 84, 110
 Squirrel's Passage 25, 63, 246, 263
 Stuffed Monk Gallery 22, 26, 64, 72, 121, 327
 aven climb to Cabaña 121
 Solórzano mummified monk 25–26
 sump index entry 262–263
 The Ramp 109, 112
- Two Sumps Chamber 62, 129, 262
 Wooden Hill 104
 Zeppelin Hangers 72, 80, 84
- Requienia carinata** 276
- Requienia sp.** 276
- rescue. *See also* accidents
 animal 11, 97, 138, 189, 213
 Cantabria statistics 14
 cave rescue organization 14
 Coquisera 1965 14
 Cueto-Coventosa 1985 76
 Hoyuca - Obvious Junction 1975 34
 Papá Noel, Paper Plane boulders 189
 Reñada - Breakdown Chamber, 1996 124
 Reñada - duck flooded 215
 Reñada - Pipe Cleaner enlarged 173
 Spanish rescue company 185
 Vallina - not necessary 2001 154
- resurgence** 1
 flow rates 3
- Resurrection (Cueva Hoyuca)** 4
- Reyes, Cueva del** 213, 301
- Rhian Hicks** 166
- Rhoda Rugg** 22, 29
- Rhynchonella depressa** 276
- Rhynchonella lata** 275, 278
- Rhys Watkins** 80, 96
- Riaño** 1, 4, 20, 21, 26, 27, 29, 32, 33, 34, 40, 41, 43, 51, 54, 56, 59, 72, 74, 75, 78, 80, 82, 84, 86, 87, 89, 90, 104, 110, 115, 120, 132, 134, 137, 147, 152, 154, 155, 157, 162, 164, 167, 168, 182, 189, 190, 193, 196, 197, 198, 201, 205, 207, 208, 213, 217, 219, 220, 221, 225, 229, 259, 262, 284, 287, 291, 298, 300, 305, 306
- Riaño, Cueva de** 4, 20, 21, 26, 27, 34, 41, 74, 75, 78, 80, 84, 86, 89, 104, 110, 137, 154, 157, 162, 167, 190, 193, 196, 198, 205, 208, 217, 219, 220, 221, 259, 262, 305
- 21st Passage 207
 89 cents Tinto 205, 207
 Acid Bath 207
 Ammonite Choke 197
 Catprint Passage 78, 205
 Crystal Mines in the Sky 89, 90
 Crystal Sand Mines 78
 Daddy Aven 217
 Doily Passage 197
 Double Barrel Passage 80, 81, 193, 219
 Energetic Between the Legs 190, 219
 first exploration 21
 Hanging Death Chamber 192, 193
 linked to Hoyuca 80
 Pray Aven 207
 Quake Rift 198
 Road to Torno 197, 262
 Schoolboy Error Aven 196, 197, 198
 sump index entry 262
- Riaño, Torcón de** 34, 55, 182
 first exploration 34
 sump index entry 262
- Riba** 16, 32, 43, 52, 86, 306. *See also* Riva
- Rich ?** 88, 138
- Richa ?** 58
- Richard ?** 86, 111, 113, 143
- Richard 'Baby' Billingham** 85
- Richard Bartrop** 109, 110, 111
- Richard Blake** 105, 106, 108, 109, 145
- Richard Hudson** 85
- Richard 'Jane's Apprentice' Greenslade** 75,
- 80
- Richard Jones** 105
- Richard N** 85, 86
- Richard Townsend** 29
- Rick ?** 80, 88
- Rick Lewthwaite** 72
- Riotuerto** 174
- Risco, Sima-Cueva del** 1, 4, 11, 13, 16, 17, 25, 26, 29, 45, 48, 49, 54, 65, 80, 114, 187, 188, 191, 192, 210, 226, 292, 294, 299, 303, 306
 deer (stolen) 48
 Galería Arco 13, 17, 114
 Galería Pintó 13
 Sala Carballo 13, 26, 27, 188, 192
 Tonto Series 65
- Riva** 1, 4, 12, 13, 23, 26, 27, 28, 32, 45, 55, 99. *See also* Riba
- Road Show** 145
- Road Works Pot** 239, 240
- Rob ?** 120, 133
- Rob Amner** 88, 96
- Robert 'Dalek' Bialek** 124, 127, 128, 134
- Rob Harrison** 109, 110, 178
- Robin Gray** 166
- Rob Murgatroyd** 113, 120, 122, 255, 257
- Rob 'The Thug' Hatfield** 72
- Rob White** 123
- Rocabado, Sima de** 43, 97
- Rocías, Monte** 281, 287
- Rodders.** *See* James 'Rodders' Wood
- Rog ?** 53
- Roger ?** 39
- Roger Graham** 20, 29
- Roger Stanger** 18
- Roldán, Sima del** 17
- Rollo** 72
- Ronnie Corrin** 138
- Ron 'Obvious' Taylor** 22, 29, 34, 39, 42, 47, 53, 55, 58, 75, 86, 105, 113, 158, 173, 182, 243
- Rosie Hadfield** 222
- Rosie Holmes** 215
- Ross ?** 75
- Ross Greenwood** 133, 248, 249, 264
- Ross Taylor** 105, 113
- Rowena Lieberman née Magden** 105
- Roy 'Big Roy' Mundy** 53, 55, 58, 67, 72, 80, 88, 96, 98, 101, 102, 105, 112, 113, 120, 124, 127, 165
- Roy Hayes** 170, 182
 ashes scattering 182
 memorial plaque 182
- Roz Frankland (Williams)** 55, 58, 67, 80, 109
- RRCPC** 175, 306
- Ruby Sherrington** 192
- Ruchana, Cueva.** *See* Espada, Cueva de la
- Rudistes** 268, 270, 276, 277, 279, 281
- Rupert Skorupka** 120, 124, 127, 128, 133, 165, 170, 241, 242, 245, 246, 247, 248, 250, 251, 252, 254, 255, 257, 258, 260, 261, 263
- Rynchonella sp.** 276

S

- Sabaudia minuta** 277, 280
- Salamander, Torca de** 53
- Salford Phil.** *See* Phil 'Salford' Papard
- Sally ?** 67, 68
- Sam ?** 120
- Samantha Davies** 53, 55, 67, 88, 101

- Sam Jones 80, 105, 124, 155
 Sam Lieberman 96, 112, 113, 137, 145, 189, 219
 Sam Pemberton 215, 235
 Samuel Davis 88, 102, 109, 128, 138
 San Antonio 89, 121, 125, 154, 157, 185, 190, 212, 214, 239, 306
 Sandra O'Neill 120, 128
 sandstone 4, 41, 73, 78, 101, 103, 110, 132, 143, 145, 163, 178, 193, 197, 199, 200, 210, 213, 216, 225, 259, 265, 266, 267, 271, 272, 273, 274, 277, 278, 279, 280, 281, 283, 292, 293, 294
 San Miguel de Aras 1, 34, 52, 120, 170, 205, 242, 271, 274, 284, 285
 Santi Urrutia 119, 145, 148, 155, 162, 163, 170, 175, 178, 192, 206, 210, 222
 Sarah ? 72, 88
 Sarah Hall 75, 80, 96, 101, 102, 105, 109, 112, 113, 116, 120, 121, 155
 Sarah Harvey 80, 82
 Sarah L 137
 Sarah Payne 206
 Sarah Preece 120, 122
 Saraïd Jones 80, 105, 124, 155
 Sara Ward 85
 Saucepan Street 5, 135, 171, 173, 176, 177
 fiesta 135
 SCD. *See* Dijón, Speleo-Club de
 Sean Cornelia 22
 Sean Phillips 102
 Secadura 1, 4, 11, 39, 40, 41, 42, 47, 49, 54, 56, 75, 87, 100, 103, 104, 105, 107, 123, 127, 132, 134, 177, 190, 193, 204, 210, 213, 217, 218, 243, 286, 287, 291, 298, 299, 304, 306
 Plumber's Bar 41, 42, 57
 Sección de Espeleología del Seminario Sanz de Sautuola 265. *See* SESS
 sediment sampling 106
 Sedo, Torca del 13, 45, 187
 Seldesuto 1, 3, 4, 30, 42, 47, 48, 53, 58, 76, 89, 91, 120, 121, 122, 123, 128, 133, 136, 137, 143, 146, 149, 159, 160, 163, 165, 166, 170, 171, 174, 181, 184, 192, 196, 201, 203, 214, 222, 281, 291, 306
 strongly draughting digs 47
 Seldesuto, La Cuvia de 120
 Sergi (Catalan) 128, 134, 155
 Serruco, Torca de 42, 43, 52, 166, 167, 170, 187
 perfunctory exploration 43
 SESS 12, 13, 14, 16, 17, 22, 28, 40, 48, 49, 72, 77, 306
 Seta, Cueva 34
 Sewer, The 176, 180, 195, 209
 Sharon 'Shaz' ? 85
 Shaz. *See* Sharon 'Shaz' ?
 Sheffield University Speleological Society 171, 226, 306. *See also* SUSS
 Sheila Cullen 206
 Shep 29
 Shepton Mallet 43
 Sheree Wilson 128, 134
 shrimp 16
 Sifón Claro, Cueva del 47, 56, 243, 258
 sump index entry 258
 Silverio 178
 Simeon Warner 109, 113, 116
 Simon ? 55, 102, 113
 Simón
 cave systems 4
 Simón 1, Torca de 41, 49, 52, 107, 306
 Simón 2, Torca de 100, 107
 sump index entry 262
 Simon Brown 96
 Simon Chandler 80, 83, 96
 Simon Cornhill 178
 Simon Davies 123, 124, 128
 Simon Dillon 201, 302
 Simon 'Dingle 1' Latimer 198, 206, 210
 Simon Flower 206
 Simon Gelling 148, 222, 225
 Simon Hopley 109
 Simon Leach 75
 Simon Richardson 175
Simplorbitolina 277, 278, 279
Simplorbitolina manasi 277, 278
Sinastrea aff. utrillensis 276
 site 74 205
 site 111 58
 site 127 185, 190
 site 136 58, 137
 site 246 107, 147, 257
 sump index entry 257
 site 251 136
 site 253 162, 164
 site 258 58, 257
 site 263 58
 site 273 85, 196
 site 297 62
 site 299 205
 site 301 73
 site 302 73
 site 311 124, 148
 site 331 63
 site 341 166, 167
 site 355 205
 site 368 163
 site 378 178
 site 385 67
 site 388 64, 123
 site 397 67
 site 408 65, 153, 155, 169. *See also* Helechales, Cueva de los
 site 415 77, 86, 100, 154, 218, 226, 297
 Helictite Passage 226
 site 471 67
 site 472 67. *See also* Piluca, Sima de
 site 477 108, 257
 sump index entry 257
 site 489 172, 182
 Billy's Vision 172, 182
 site 491 123
 site 493 75
 site 495 110
 site 549
 sump index entry 257
 site 553 162, 172, 175
 site 574 78
 site 596 20
 site 617 100
 site 628
 sump index entry 258
 site 635 85
 site 663 302
 site 675 103. *See also* Azpilicueta, Torca de
 site 685 88, 100
 site 690 88
 site 703 96
 site 709 88
 site 715 111, 145, 172, 175, 189
 site 746 205
 site 753 96, 209
 site 755 97
 site 763 100, 128
 site 793 113, 121. *See also* Redondo, Cubío
 site 810 208
 site 854 101, 166
 site 858 102, 155
 site 897 201
 site 921 204
 site 926 108
 site 979 132, 258
 sump index entry 258
 site 1033 173
 site 1038 159
 site 1076 19
 site 1103 204
 site 1113 166
 site 1128 134
 site 1139 181
 site 1160 123
 site 1161 123
 site 1187 124
 site 1212 131
 site 1219 185
 site 1241 131
 site 1258 132
 site 1259 132
 site 1264 132
 site 1265 132
 site 1276 132
 site 1281 136
 site 1289 133, 136, 172, 302
 site 1290 133
 site 1294 205
 site 1300 134
 site 1301 134
 site 1302 134
 site 1338 2, 3, 134, 142, 146, 152, 155, 170, 306
 Dog's Bollocks 146
 linked to Coterón 155
 Sentinel Chamber 152, 155, 156
 Snow Bat Passage 153
 Spice Pot 146, 156
 site 1357 137
 site 1374 137
 site 1379 138, 143, 147
 site 1390 156, 160, 185
 site 1403 144, 197, 201
 site 1406 138
 site 1410 138
 site 1411 138
 site 1436 142
 site 1438 140
 site 1496 157
 site 1512 148
 site 1514 148, 167, 169
 survey 149
 site 1531 20
 site 1532 20
 site 1600 152
 site 1615 152, 157
 site 1617 152, 157, 164
 site 1618 152, 157
 site 1666 157, 164
 site 1672 157
 site 1676 19
 site 1679 156, 169
 site 1690 169
 site 1691 169
 site 1715 160

site 1719 160
site 1722 160
site 1725 162, 164
site 1743 160, 163, 164
site 1745 182
site 1754 183
site 1802 167
site 1804 167
site 1805 164, 167
site 1815 163
site 1816 163, 164
site 1821 164
site 1823 165
site 1833 165
site 1836 166
site 1856 166
site 1861 166
site 1862 166
site 1864 166
site 1866 167
site 1867 167, 289
site 1868 167
site 1870 167
site 1883 169
site 1887 167, 169, 170
site 1912 169
site 1918 170
site 1921 169
site 1924 170, 189
site 1929 170
Site 1929 170
site 1930 172, 175, 176, 258
site 1935 170
site 1941 172
site 1943 169
site 1969 175
site 1973 193
site 1974 174
site 1976 174
site 1977 174
site 1989 175, 184
site 2000 175
site 2015 185
site 2035 180
site 2036 180
site 2060 177
site 2079 178
site 2094 181
site 2097 181
site 2099 180
site 2101 182
site 2108 182
site 2109 182
site 2116 183
site 2127 182, 183
site 2139 183
site 2161 183, 188
site 2165 184
site 2223 185
site 2263 185
site 2264 185, 190, 193
site 2287 188
site 2290 192
site 2311 186
site 2360 203
site 2381 190
site 2382 190
site 2387
 sump index entry 262
site 2388 190
site 2414 189, 190, 208, 213
site 2437 169. *See also* Kunka, Torca

site 2536 193
site 2570 196
site 2572 196, 201
site 2580 196
site 2638 198
site 2653 199
site 2740 203
site 2741 203, 214, 302
site 2782 204
site 2813 208
site 2871 210
site 2907 211
site 2916 211
site 2964 213
site 2999 210, 213
site 3000 210
site 3001 213
site 3004
 sump index entry 262
site 3011 212
site 3012 223, 224
site 3014 212
site 3016 213
site 3034 216
site 3081 214
site 3084 217
site 3105 214
site 3116 215
site 3129 215
site 3166 216, 225
site 3170 217
site 3222 225
site 3236 217
site 3261 222
site 3286 225
sites 271 - 274 196
sites 440 - 443 67
sites 446 - 452 67
sites 453 - 455 67
sites 752 - 754 96
sites 916 - 929 108
sites 1223 - 1228 127
sites 1348 - 1349 169
sites 1382 - 1392 138
sites 1429 - 1434 144
sites 1567 - 1571 149
sites 1573 - 1583 149
sites 1603 - 1607 152
sites 1605 - 1607 152
sites 1624 - 1632 153
sites 1731 - 1740 162
sites 1787 - 1789 164
sites 1800 - 1805 164
sites 1825 - 1829 165
sites 1837 - 1843 165
sites 1873 - 1874 167
sites 1981 - 1990 175
sites 2035 - 2044 175
sites 2045 - 2051 175
sites 2134 - 2137 182
sites 2589 - 2594 196
sites 2618 - 2622 197
sites 2623 - 2630 197
sites 2642 - 2651 198
sites 2714 - 2728 200
sites 2737 - 2739 201
sites 2760 - 2765 204
sites 2774 - 2779 204
sites 2814 - 2815 206
sites 2922 - 2930 209
sites 2980 - 2987 210
sites 2989 - 2996 210

sites 3005 - 3008 212
sites 3072 - 3105 214
sites 3217 - 3220 218
sites 3340 - 3341 240
Slasher. *See* Pete 'Slasher' Asher
Slaves' Cave 202, 213
Slug. *See* Michael 'Slug' Hale
Smiley Riley 85
smoke bomb. *See* clothing & equipment for
 caving: smoke bomb
Snab. *See also* Peter 'Snab' McNab
Snablet. *See also* Peter 'Snablet' McNab
snail, brown-lipped 300
Snottite Cave 168-169, 180, 186, 195, 204,
 212, 237
 Owl Neck Crawl 204
 Snottite Junction 169
 survey 168
Snows bar 5, 45, 50, 90. *See also* Bar Las
 Nieves
Solórzano 25, 164, 189, 255, 282, 283, 284,
 291
Somo 1, 40, 196, 278
Sonya Johnson 124
Sotarraña, Cueva 11, 12, 13, 17, 132, 134,
 210, 299, 303. *See also* Patatal,
 Cueva del
South Vega 2, 3, 17, 52, 64, 65, 76, 77, 96,
 103, 105, 107, 110, 118, 121, 123,
 124, 134, 137, 145, 153, 154, 156,
 165, 170, 171, 191, 192, 258, 262,
 263, 297, 298, 305
South Vega System 2, 3, 64, 65, 76, 77, 96,
 103, 105, 107, 121, 123, 124, 134,
 137, 145, 154, 156, 165, 170, 171,
 191, 192, 258, 262, 263, 297, 298,
 305
 sump index entry 262
Spanish cavers 19, 22, 49, 135, 189
Spear Pot 302
Speleo Club Cantabro 112, 123
Speleology
 definition 7
Sphaerulites 273, 274, 275
Sports Council grant 41, 62, 84, 184
Sprog on a Rock 89
Squirrel. *See* Michael 'Squirrel' Wood
S Reece 120
SRT 32, 43, 50, 63, 66, 67, 90, 116, 126, 131,
 154, 182, 202, 306
 inappropriate 56
 possible first descent 32
stal collection 109
Stan Brown 42, 63
Starkers. *See* Alan 'Starkers' Martin
Stephanocoenia sp. 288
Stephen Knights 85, 88, 90, 96
Steve ? 76, 77, 78, 88, 124
Steve Bell 55
Steve 'Big Steve' Martin 42, 53, 58, 63,
 66, 67, 72, 75, 80, 85, 88, 96, 101,
 102, 105, 108, 109, 112, 113, 120,
 127, 138, 148, 152, 155, 162, 166,
 170, 175, 178, 183, 184, 185, 188,
 189, 192, 196, 197, 198, 201, 204,
 206, 210, 215, 222, 239, 240. *See*
 also Steve Martin
Steve Burzio 67, 68, 69
Steve 'Chubbs' Greatorex 75
Steve Dickenson 29
Steve Domeney 206, 208
Steve Foster 42, 47, 53, 55, 56

mother 53
 Steve G? 206
 Steve Jones 170, 171, 172, 175, 176, 177
 Steve Lenartowicz 20, 29, 30
 Steve Little Steve?. See Steve 'Little Steve' Whitehead
 Steve 'Little Steve'? Whitehead 72
 Steve Martin 152, 168, 191, 228, 246
 Steve Mills 109
 Steve Openshaw 72, 73, 96, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 116, 120, 121, 124, 134, 135, 136, 137, 138, 142, 143, 144, 152, 153, 154, 155, 157, 166, 170, 171, 174, 178, 180, 181, 183, 246, 255, 259, 264
 Steve Pratt 215
 Steve Shipston 138, 144
 Steve Smith 96
 Steve Sykes 96, 100
 Steve 'Tiny' Calvert 204, 210, 214
 Steve 'Tupper' Thomas 75, 80, 85, 96
 Steve Woolven 215, 238
 Steve Wray 108, 113
 Stuart Davey 22, 29, 34, 47, 56, 242, 243, 247, 258, 261, 262
 Stuart Whitney 201
 Stump. See Chris 'Stump' Whale
 Subterránea, Cueva 30, 190, 200, 218
 Sue ? 58
 Sue Bertenshaw 75, 78
 Sue Bradford 53, 55
 Sue Brookes 85
 Sue Devine 80, 88
 Sue Gray 166
 Sue Hall (McAllister) 80, 85
 Sue Morton (Waite) 109, 210, 214, 222
 Sue Ryall 215, 235
 Sue Stringfellow 109
 sump 12, 16, 20, 25, 26, 28, 32, 33, 34, 35, 40, 41, 42, 43, 47, 49, 52, 54, 55, 56, 57, 59, 62, 65, 66, 68, 73, 74, 76, 77, 78, 80, 88, 89, 93, 96, 97, 100, 103, 107, 108, 109, 111, 113, 114, 116, 120, 121, 122, 125, 132, 133, 143, 144, 146, 154, 157, 158, 160, 162, 163, 164, 165, 167, 171, 172, 178, 182, 183, 194, 196, 202, 206, 209, 211, 212, 215, 219, 220, 221, 223, 225, 227, 231, 235, 239, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264
 Supraurgonian 276
 Surgencia de las Crecidas 47, 258
 sump index entry 258
 surveying. See recording & documenting: surveying techniques & equipment
 Susan Martin 67, 72, 75, 80, 88, 96, 101, 102, 105, 108, 109, 112, 113, 120, 148, 152, 155, 162, 166, 170, 175, 178, 183, 184, 185, 188, 189, 192, 196, 197, 198, 201, 204, 206, 210, 215, 222, 239, 240
 SUSS 171, 172, 175, 225, 226, 306. See also Sheffield University Speleological Society
 Suviejo-Rayo de Sol complex 4
 Suviejo, Torca de 4, 40, 43, 47, 48, 49, 52, 54, 87, 103, 104, 123, 218, 263, 306
 campsite 47
 Chocolate Crunch Passage 49

early explorations 47
 Misty Passage 52
 Quick Trip Passage 49, 54
 sump index entry 263
 SWCC 175, 306
 Sweeny. See Gareth 'Sweeny' Sewell
 sword. See archaeology: Bronze Age: sword
 Sylvia ? 128
 Sylvia Jackman 29
 Symmetry Pot 215
 syncline 118, 282, 283, 284, 287, 292
 Fuente las Varas 283

T

Tablons, Cueva de 56, 185, 188, 189, 192, 226
 first excavations 56
 Tad 63
 Tali 2, Cueva de 210
Tamnastrea frondescens 279
 Tania Davies 128
 Tanya Savage 170, 175
 Tarn. See Peter 'Tarn' Martin
 Tash. See Natash 'Tash' Watson; See Natasha 'Tash' Koffey (Mitchel)
 tectonics 281–286
 Ted Cawthorne 124, 134, 148, 155, 166, 178, 185, 189, 192, 206, 215
 Tejuela, Alto de 255
 Telmo 45
Terebratella crassicosata 275
Terebratula aff. bispicata Brocq. 272
Terebratula cortazari Nov. 274
Terebratula duntemplana Cott. 275
Terebratula duntempleana 272, 276
Terebratula duntempleana Orb. 272
Terebratula phaseolina Lam. 275
Terebratula praelonga 276
Terebratula pseudojuriensis Leym. 273
Terebratulas 272, 273
Terebratula sella 272, 273, 276
Terebratula sella Sow. 272, 273
Terebratula semiglobosa sow. 275
 Teresa Williams 109, 111, 116
 Terry Whitaker 19, 45, 72, 75, 80, 85, 88, 96, 102, 105, 127, 137, 138, 139, 145, 146, 148, 152, 155, 158, 160, 165, 166, 168, 170, 173, 174, 175, 176, 178, 183, 184, 185, 188, 189, 192, 197, 201, 204, 210, 215, 240
 The Flan. See Jack 'The Flan' Taylor
 theft
 diving equipment, Molino 251
 rope at Coquisera 76
 The Judge. See Javier 'The Judge' Talma
 The Thug. See Rob 'The Thug' Hatfield
 Three Idiots 204, 213
 Tiano Lavín 42, 158, 184
 Tib Pot 124
 Tig 152
 Tim ? 88, 133
 Tim Allen 109, 110, 113, 120, 138, 145, 170, 171, 172, 175, 178, 180
 Tim Cunniffe 42
 Tim Lamberton 160
 Tim Webber 148, 170, 172, 175, 176, 222
 Tiny. See Steve 'Tiny' Calvert
 Tiva, Cueva de 12, 13, 16, 23, 25, 28, 29, 37, 226, 281
 Tizones, Cueva de 12, 14, 16, 143, 146, 147, 306

Toad in the Hole 3, 58, 59, 62, 85, 87, 88, 89, 90, 91, 100, 120, 123, 124, 133, 136, 143, 163, 200, 208, 257. See also Calleja Rebollo, Torcón de la
 1st Return 143
 Antler Chamber 85
 Baz's Chamber 143
 Baz's Dig 123, 133
 Cheese Shop 85, 86
 Chocolate OD Aven 124
 Chocolate Slice 85, 88
 Cloud Nine 89, 91
 Cocoa Series 86, 88, 100
 first explorations 58–59
 First Return 89, 163
 Fossil Chamber 163
 Girly Day Out 209
 Lost Series 89, 163
 Mad Hatter's Tea Party 100
 Man-Down 208
 Misty Junction 133
 Move-It 208
 northern extensions 200
 St. Ann's Passage 124
 Stilton Surprise 85
 St Paul's 86
 sump index entry 257
 Two Owls 89, 134, 136, 144
 Tobo. See Tony 'Tobo' Fifield
 Toby Chilton 85, 88, 96, 101, 102, 103, 105, 109, 112, 113, 117, 120, 124, 127, 128, 137, 138, 145, 152, 162, 166, 170, 178, 255, 257
 Tom Baker 201
 Tom Chapman 206, 207
 Tom Clayton 215
 Tom Holden 29
 Tom Howard 222
 Toni (Catalan) 113
 Tony ? 75, 124
 Tony '(1 of BUMS)' ? 85
 Tony 'Badger' Radmall 198, 204, 206, 215, 220
 Tony Brocklebank 109, 170, 178, 192, 198, 199, 201, 206, 208, 210, 214, 222
 Tony Dickinson 22
 Tony Haigh 96, 109, 120
 Tony 'JRat' Jarratt 137, 145
 Tony Littler 155, 160, 175
 Tony Scallan 178
 Tony 'Tobo' Fifield 29, 39, 42, 47, 53, 55, 58, 88
 Tony Waltham 42, 43, 47, 55, 58, 294
 Tony Williams 47, 52, 53, 55, 58, 67, 68, 80, 109
 Tora Bora, Sima de la 164, 302
 Torben Redder 57, 111, 117, 150, 155, 160, 162, 166, 170, 173, 175, 178, 179, 181, 184, 188, 189, 191, 192, 198, 206, 210, 222, 239
 Torbjörn Doj 160, 175
 Torcida, Cueva de 84, 108, 162, 168, 209, 212, 306. See also Fat Boy Getting Thinner
 Torno, Cueva del 4, 25, 26, 189, 191, 193, 194, 195, 196, 197, 199, 200, 202, 207, 208, 213, 219, 220, 226, 262, 263, 300, 302, 306
 Andy's Back Passage 199
 Canyon Passage 207
 Granny's Head 193, 196, 199
 Granny's Slippers 193

- part survey 194–195
 Posture of Progression 193
 Rampant Rabbit 189, 193
 Retreat, Retreat! 208
 Skull Chamber 196, 197, 199
 Tigger Series 197
 Toad Crawl 196, 263
 Torno Chamber 189, 193, 196, 226
 western extensions (2008) 208
- tortilla** 23, 30, 46, 134
Tortilla, Torca 134
Tortosa 85, 100, 115, 116, 122, 248, 251
Toucasia 268, 272, 276, 277, 278, 279, 280, 288
Trackside Pot 190, 219
Tres Niños, Cueva de los 68, 99, 102, 108, 162, 165, 300, 306
 early explorations 102
 found 99
Tresviso 82, 83
Trevor M? 67
Triangulo, Cueva de 169
Tricia Browning 128, 138, 148, 170
Tricia Moys 22
Trillos 1, 143, 145, 184, 277, 278, 284, 287, 306
Trish Cope 20, 21, 22, 29, 39, 42
Trochosmia nevirani de Angelis 288
Trochosmia aff. sandeliana 276
Trochosmia nevirani 276
Trout 145
Tufty. *See* Dave ‘Tufty’ Tuffery
Tupper Thomas. *See* Steve ‘Tupper’ Thomas
TV Mast Cave 101, 102, 103, 163. *See* also Cantones, Cueva de los
 flooding 163
TV Mast Track 124, 132, 148, 165, 166, 185, 203
Tylostoma sp. 276
- U**
- ULSA** 21, 22, 25, 306
University of Cantabria 299
University of Leeds Speleological Association. *See* ULSA
University of Wales 175
Upper Jurassic 266
 uranium-thorium dating 109
Urgonian 268–281
 definition 268
Uzueka, Cueva 6, 7, 20, 26, 27, 32, 34, 37, 43, 50, 75, 283. *See also* Hoyuca, Cueva
- V**
- Vaca Loca, Cueva de la** 124, 128
Vaca, Sima de la 42
Vaca, Torca la 3, 4, 124, 128, 207, 209, 210, 211, 212, 213, 214, 215, 216, 217, 224, 225, 227, 229, 230, 231, 233, 234, 235, 236, 237, 238, 240, 255, 256, 263, 296, 297, 305, 306
 1 Haverflatts Lane 224, 225, 237
 A590 Vindication Highway 235
 Buttermere Pitch 209, 215, 255, 263
 Cock Up at Cockermouth 263
 Crap Passage 211, 263
 Dingle Pringle Pretty Pushing Passage 210, 227, 228
 Don’t Make Me Laugh 211
 drainage postulations 233–234
 early explorations 209, 227–238
 Ed’s Birthday Passage 225
 Fisticuffs at Botchergate 231, 233
 Garage Party 209
 Gour Passage 216
 Henry’s Chamber 225, 238
 Henry’s Way 225
 It Only Hurts When I Laugh 211
 Lake Bassenthwaite 210, 211, 230, 231, 234, 235, 263
 duck photo 213
 Land of the Wozzecks 232
 Lechuguilla Passage 237
 levels of development 210, 228
 line survey on area map 236
 Mancunian Candidate 211
 Nearly Dan Chamber 225
 Penguin Passage 209, 210, 214, 215, 216
 Penrith Historic Market Town Duck 231, 235, 237
 Red Pike 210
 Satterthwaite Tarn 231, 232, 263
 Scafell Aven 216, 235, 236, 237
 Shoulder of Mutton Chamber 211, 216, 235, 236, 238
 Squality Street 209, 227, 228, 263
 sump index entry 263
 survey - line elevation 237
 survey, part 212
 The Rib Tickler 211
 Tiptoe of the Two Twits 232
 Tuna Can Corner 233, 235
 Vindication Highway 234, 235
 Walking on Eggshells 237
 Wasdale Screes 225
 Whites Haven 234, 235
 Whitworth Series 210, 215, 230, 263
 Wrong Trousers 227
- Vaccination Pot** 123
Vaccinator, The 134–135, 135, 135–136, 141, 170
 Doctor Death 135, 141
 Jumping Mouse Passage 141
 survey 141
vadose passages 63, 94, 148, 167, 258, 261, 286, 296
Valanginian 265, 266, 268
Valdebro, Compañía Petrolífera 5, 267, 282
Valerie ? 53
Vallina, Cueva 2, 3, 93, 96, 97, 100, 101, 104, 111, 114, 115, 116, 117, 118, 120, 122, 123, 124, 125, 126, 127, 128, 129, 133, 135, 136, 137, 142, 145, 146, 154, 155, 156, 157, 160, 161, 163, 165, 166, 167, 171, 172, 173, 177, 181, 182, 183, 184, 188, 192, 193, 203, 209, 248, 249, 250, 255, 256, 263, 264, 287, 291, 296, 297, 302, 303, 304, 305, 306
 600 Pesetas Passage 142
 1993-4 extensions 114–115, 116–119
 Albert’s Grand Passage 163, 171, 173
 Barney Rubble’s Uranium Mine 177, 181, 182, 183
 beaker 97
 Berger Chamber 122
 B-flat Passage 167
 bottom entrance excavated 100
 Breakthrough Chamber 114, 115
 Bridge of Khazad Doom 182
 Canyon Sump Passage 167, 264
 Clapham Bypass 209
 crawl excavated 96
 Crumble Passage 122
 Crystal River Passage 163, 193
 Dark Angel Desert 182
 diving summary 248–250
 Double Dutch 97, 116, 129, 146, 161, 163, 165, 171
 downstream sumps survey 248
 First Abyss 118, 171
 first explorations 96–100
 flooding 171
 FN Passage 163, 165, 166
 Frog Passage 122
 Galería de Germán 182, 188
 survey 186–187
 Galería de los Elefantes 122
 Hale-Bopp Trail 129
 Haymarket Series 97
 Hole-in-the-Wall 171
 Kingsdale Passage 193
 Lady Beatrice’s Underwater Fantasy 249, 263
 Man Trap 192
 Mollusc Magic 182
 Muddy Waters Duck 264
 New York City 118, 122, 136
 Novadome Aven 122
 November Passage 165, 166, 171
 Quicksand Inlet 118
 Río Blanco 114, 115, 117, 118, 122
 Río Grande 122
 Río Rioja 111, 116, 124, 125, 146, 249, 263
 Road to Nowhere 171
 Shatter Passage 177, 181
 Simeon’s Loop 117, 118, 193
 Skyhook Passage 163, 165
 Smelly Hat Aven 97, 209
 sump index entry 263–264
 Swirl Chamber 96, 116, 126, 165, 183, 192
 The Passage That Turned to Jelly! 122
 The Tocadome 115, 193
 Thornton Force 114, 115, 117, 118, 122, 171, 193
 Toc Passage 115, 118, 135, 136, 161
 Traverse of the Pigs 182
 upstream sump survey 248
 Walkie Talkie Passage 118
 Waterfall Inlet 122
 Where the Rioja Goes 116
 Where Who Knows Goes 123
 Who Knows Where 157
 Zona Blanca 183
- Val Mintram** 155
Veg. *See* Julian ‘Veg’ Smith
Vega, Cuvía de la 158, 159, 173, 300
Vera ? 120
Vera Negra, Torca de la 2, 3, 6, 26, 27, 42, 63, 64, 120, 121, 123, 297, 298, 306.
See also Cabaña, Torca de la
 first exploration 27
 West Wanders 64
Verdura, Cueva 105
Veronica Devine 148
Vicky Stratton 124
video
 in Mostajo, Coterón & Lluvea 76
Vince ? 109
Vince ‘Mr Reluctant’ ? 133
Vince Simmonds 160

Violent Violet 198
Virgen, Fuente de la 200, 264
 sump index entry 264
Volcano, The 138, 153, 156, 160, 171, 177,
 181, 188, 192, 200
 breakthrough to pitch and chamber 200
Volvo, Cueva del. *See* **Bollón, Cueva del**

Zuela, Torca de 137
Zutoia Etxeandia 178

W

Walled Cave 201
Walt Pirie 155
water flow rates 188, 191
water levels underground 216
water routes, previous 1
Wayne Kitching 53, 54
WCC 175, 306
Wealden 266–268
Wendy Bollard 166
Wendy Thorp 96, 196, 197
Wendy Williams 175, 184, 189, 198, 206,
 215
Wendy Yeadon (née Broomer) 22, 29
West Sussex Caving Club 217, 218, 221, 306
Whale. *See* **Alan ‘Whale’ Hale**

White Rose Pothole Club 53, 306
White Wine Bar 2
Wild Horses, Cave of the 74
Wild Mare, Cave of the 1, 3, 4, 100, 112,
 121, 209, 211, 217, 229, 233, 234,
 238, 254, 255, 264, 306
 diving summary 255
 drainage postulations 233–234
 flooding 229
 sump index entry 264
 Sump of the Wild Eels 121, 264
William Davis 75, 88, 93, 102, 109, 128,
 138, 160
Will Scallan 178
Will Stewart 210, 215
Wingnut. *See* **Mike ‘Wingnut’ Riley**
Winston Churchill Memorial Trust 254
Wolf Anning 166
Woodcutter’s Cave 186, 195
Wood Dig 196
Wookey 113, 115
Worm. *See* **Andrew ‘Worm’ Jones**

X

Xarli (Catalan) 113, 128
Xavier (Catalan) 128
XLs, Torca 75, 125, 127

Y

Yarad Edery 222
Yorkshire Dave. *See* **Dave ‘Yorkshire Dave’**
 H?
Yusa, Torca de 35, 172
 first exploration 35

Z

Zena ? 80
Zippy. *See* **Carl ‘Zippy’ Gibbs**
Zoë ? 133
Zoe Sayer 170
Zorro, Cueva del 62, 65, 205, 208
Zorro, Torca del 142, 192