

# KEY

**Sediments**

- sand
- mud/clay
- gravel
- rocks/boulders

**Deposits**

- stalactites
- stalagmites
- calcite floor

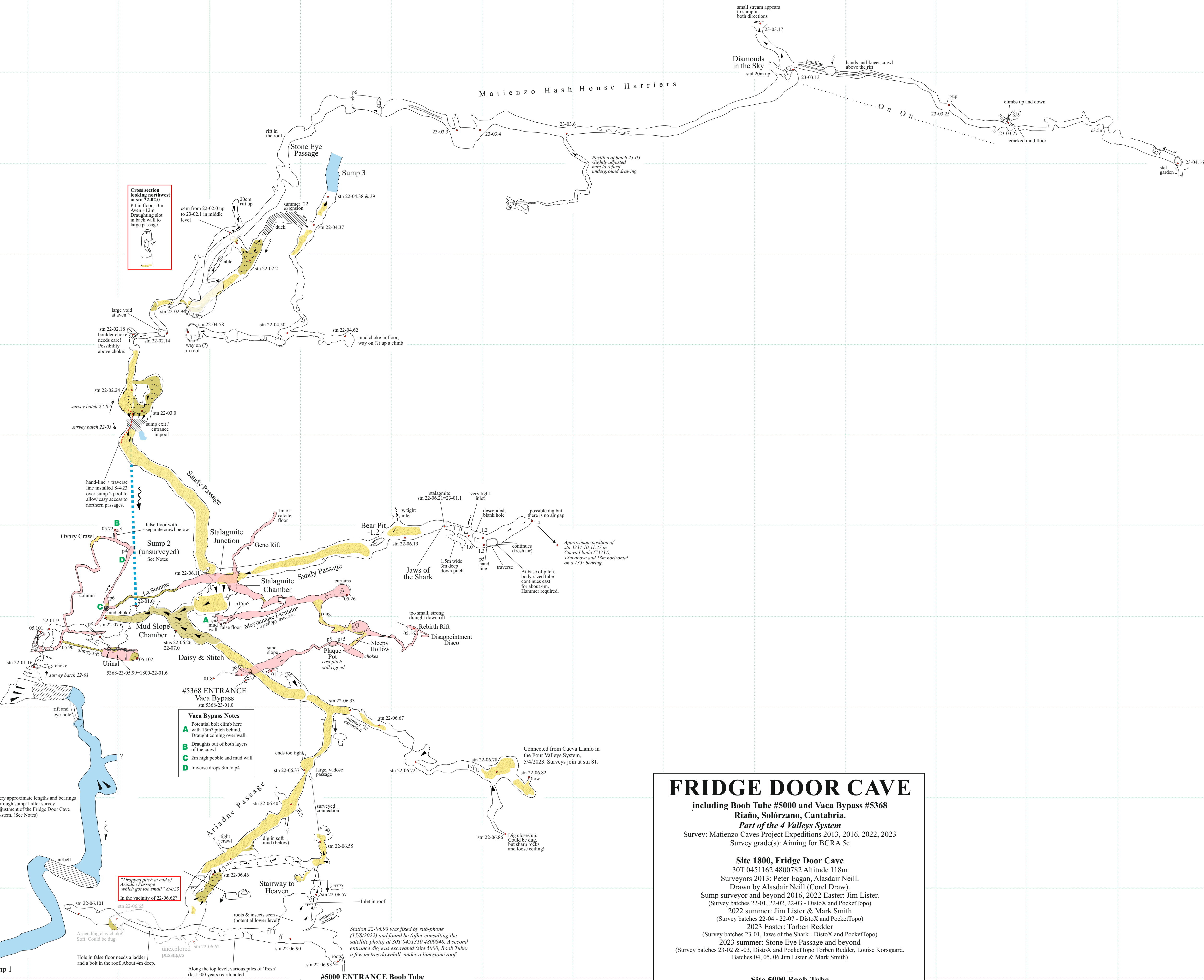
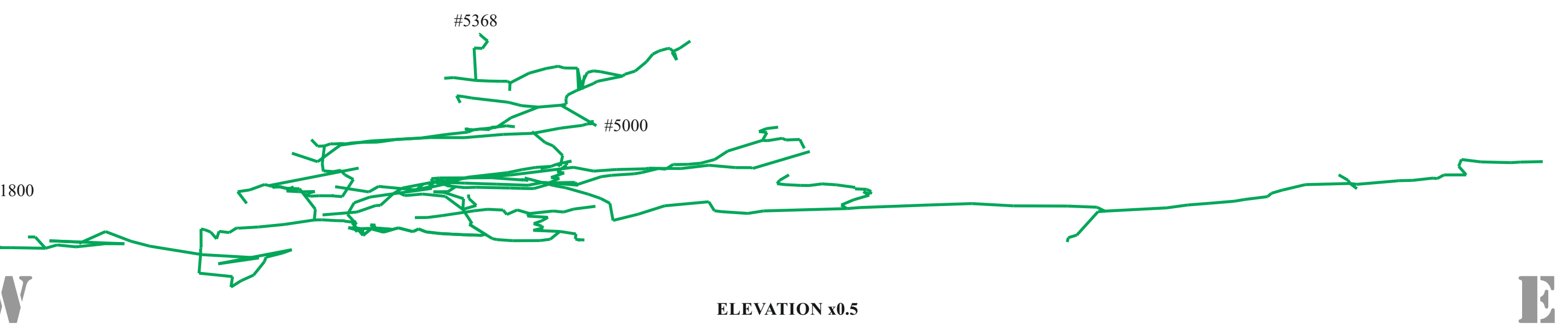
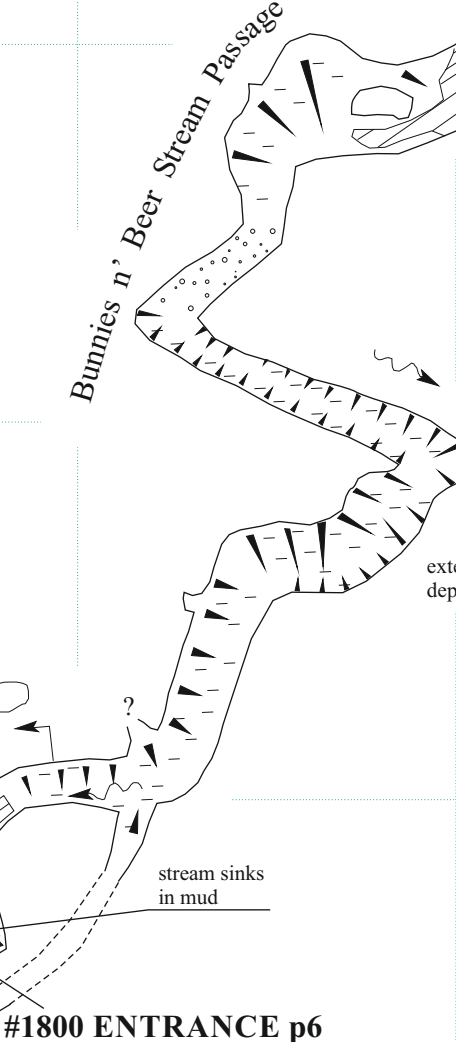
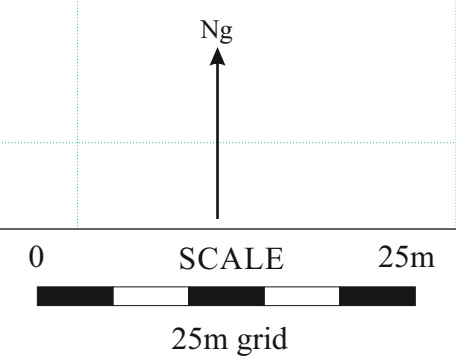
**Water**

- sump
- water surface
- water flow

**Other symbols**

- survey station
- slope down (L to R)
- draught
- pitch down
- aven

passages in site S368, Vaca Bypass



## FRIDGE DOOR CAVE

including Boob Tube #5000 and Vaca Bypass #5368  
**Riño, Solerzano, Cantabria.**  
*Part of the 4 Valleys System*  
 Survey: Matienzo Caves Project Expeditions: 2013, 2016, 2022, 2023  
 Survey grade(s): Aiming for BCRA 5c

**Site 1800, Fridge Door Cave**  
 30T 0451162 4800782 Altitude 118m  
 Surveyors 2013: Peter Eagan, Alasdair Neill.  
 Drawn by Alasdair Neill (Corel Draw).  
 Sump surveyor and beyond 2016, 2022 Easter: Jim Lister.  
 (Survey batches 22-01, 22-02, 22-03 - DistoX and PocketTopo)  
 2022 summer: Jim Lister & Mark Smith  
 (Survey batches 22-04 - 22-07 - DistoX and PocketTopo)  
 2023 Easter: Torben Redder  
 (Survey batches 23-01, Jaws of the Shark - DistoX and PocketTopo)  
 2023 summer: Stone Eye Passage and beyond  
 (Survey batches 23-02 & -03, DistoX and PocketTopo Torben Redder, Louise Korsgaard.  
 Batches 04, 05, 06 Jim Lister & Mark Smith)

**Site 5000 Boob Tube**  
 30T 0451305 4800845 Altitude 139m  
 An entrance excavated after fixing station 1800-22-06.93 on the surface.

**Site 5368 Vaca Bypass**  
 30T 0451279 4800925 Altitude 159m  
 Explored from an excavated entrance and eventually linked to FDC down an 8m drop and meeting the tie-off point at the down stream end of sump 2.  
 1800-22-01.6 equates to 5368-23-05.99  
 Site 5368 explored, photographed and surveyed by Jim Lister, Dave Foxton, Ben Marks, Olivia Hookings, Elin West, Isaac Neale, Dylan Longdon, Sam Davis, Ioan Roberts.

Final drawing Fridge Door Cave System:  
 Juan Corrin (Corel Draw)  
 Before 4VS link (5/4/2023): Length 1248m. Vertical range 36m.  
 After summer 2023 explorations and adjustments: Length 2158m. Vertical range 61m

**NOTES for the Fridge Door Cave System:** #1800, #5000, #5368 15/8/2023  
 Re-plotting SurveX files after Vaca Bypass #5368 (stn 23-05.99) link to #1800 at stn 22-01.6. Three entrances 1800, 5000, 5368 all \*FIXED.  
 #1800 entrance at 451162 4800782 Alt. 118m  
 #5000 entrance at 451306 4800845 Alt. 139m  
 #5368 entrance at 451279 4800925 Alt. 159m

All above-water passages directly connected to these entrances plotted and \*SOLVE'd to fix the stations.  
 Sump 1 then attached.  
 Sump 2 not plotted in SurveX but links 22-01.0 to 22-06.0

Total length of FDC (including 5000 and 5368) is 2101 + 51m (sump 2) = 2152m  
 Joined to 4 Valleys System with total length = 72674m