



fixed stations
 ● yellow in red plugs
 ■ pink/purple plastic markers
 A: 30T 0452498.4, 4797798.8, 146.5
 B: 30T 0452522.1, 4797788.9, 141.0
 F: 30T 0452517.8, 4797787.3, 140.5
 G: 30T 0452501.0, 4797787.9, 140.6

water sinks
 ● S1 - S7

significant trees
 ●

Approximate altitudes
 sink area S3, S6 : 138.2m
 passage floor at X : 132.5m. Boulders above with water entering.
 cave entrance (roof) : 146.1m
 floor of trench below entrance : 142.0m

NOTES
 S1 - S7 are the sinks seen in early May 2015. As no rain fell and the river discharge became less, sinks S7, S5 then S2 respectively were seen to take no water. At that stage, it appeared that the main sink was on a front under blocks between S2 and S3 to S6. Also S4 was taking less water with S1 capturing perhaps 20% of the main flow.
 A short distance upstream of the sinks, the flow was estimated at between 1 and 2 cumecs.
 Fixed points labelled "G" (rock under tree), "B" (point on the Big Rock) and "F" (point on the Pinnacle) are marked with pink plastic. The surveyed area has been tied back to Alberto's barn, where the ETRS89 coordinates of the southeast corner, 1.65m above ground level) are 0452398.5 4797761.7 154.15 (taken from the map). As most survey points are under trees, no attempt has been made to use GPS, although the barn corner agreed with the map coordinates to within a couple of metres.
 The contour lines on the official Cantabrian map are wrong due to the ground being under trees in this area. The contour lines on the accompanying map have been moved to reflect data gathered during the surface survey. A new contour line at 140m has been inserted around the area of the sinks.

Carcavuezo sink area
 La Secada, Matienzo
 Underground Green Cool Passage surveyed 1988?
 Centre line resurveyed in narrow passage (Paul Fretwell) and radio located (Phil Papard), August 2015.
 Surface surveyed: May, August 2015, Juan Corrin
 Surveyed using compass, clino, tape and laser measure
 Drawn in Inkscape: Juan Corrin
 Matienzo Caves Project 2015

