



GOOGLE MAPS 38.800348, -3.841225



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Ayuntamiento de Almagro

PROJECT

CALATRAVA VOLCANOES GEOPARK. CIUDAD REAL

NATURAL MONUMENT
OF HOYA DE CERVERA



- Magma
- Mercury
- Coal



Castilla-La Mancha



Situated next to the Chorrito trench, on the Jabalón river, is Hoya de Cervera: one of the most representative and beautiful maar-type volcanic buildings in the whole territory of Calatrava Volcanoes. Maars are volcanic formations produced by hydromagmatic eruptions in which water, either surface or underground, interacts with a focus of magmatic heat. Successive deposits originate, creating ring-shaped structures by the sedimentation of the materials that are radially displaced from the centre of the eruption (Fig. 1).

This is a maar developed on a very hard and ancient substratum of Palaeozoic quartzite rocks. It forms a very deep crater (up to 140 m maximum depth) and very elongated (almost 1.5 km in a NW-SE direction), which opens at its northern end, so that the deposits of materials from the eruption have only been able to progress in this direction (Fig. 2). It has a limited ring at its northwestern edge and forms a funnel with sharply steep walls on the quartzite rocks. The eruption has broken up part of the quartzite strata, generating crests of great scenic interest. Subsequent to the eruption,

rocky outcrop was formed when the quartzite was fragmented in successive processes of freezing and thawing in recent times when the climate was colder.

The Maar de Cervera is located in a tectonically complex area, with very intense and complicated fracturing. These fracture lines were formed by the movements and thrusts of the land over a long geological history, the main rivers - Jabalón and Guadiana - are channelled along them. The volcanic edifices also follow these alignments (Fig. 3).

This eruption has created a temporary and ephemeral lagoon that collects water from the rain that falls directly on its small basin. It only contains water in exceptionally rainy years and is the source of a very fragile and rare ecosystem on the European continent.

It is protected as a Natural Monument, included in the Natura 2000 Network ZEC. It forms part of the IGME list, Site of Geological Interest –LIG TM148– “Maar Plio-Pleistocene of Hoya de Cervera”.

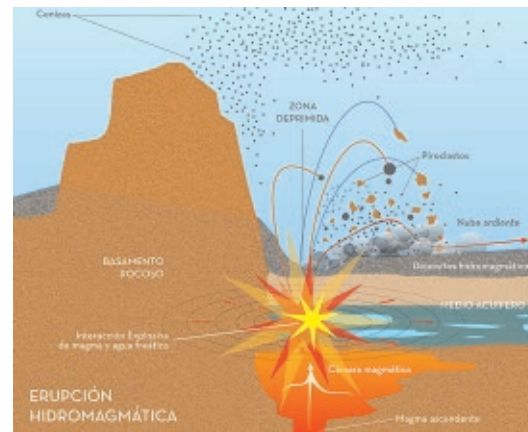


Fig. 1



Based on E. González - Fig. 2



Work derived from Mapa-LiDAR 2019 CC-BY 4.0 scne.es - Fig. 3