Altea

ID #057

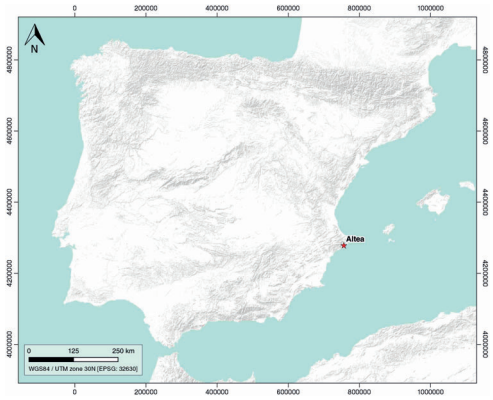
SUMARIZED INDEX CARD

Downloaded from Iberian Evaporite Structure DataBase

GENERAL INFORMATION

Structure type	Evaporite Diapir
Deformed/Undeformed	Deformed
Geological Setting	Betic system, Pre-Betic cordillera
Outcropping/buried	Outcropping
Evaporite unit/s name	Keuper facies
Evaporite unit/s age	Carnian-Rhaetian (Upper Triassic)
Evaporite unit/s origin	Marine
Classif. (Hudec and Jackson, 2009)	Passive piercement, Thrust piercement
Classif. (Jackson and Talbot, 1986)	Salt wall
Other comments	Parcent (ID #079) and Altea were pre-existing near-surface diapirs, controlled by Mesozoic normal faults, which were latterly squeezed during late Oligocene to Tortonian contraction. Altea diapir was extruded by lateral migration of pre-existing near surface diapir associated with dextral transpression.

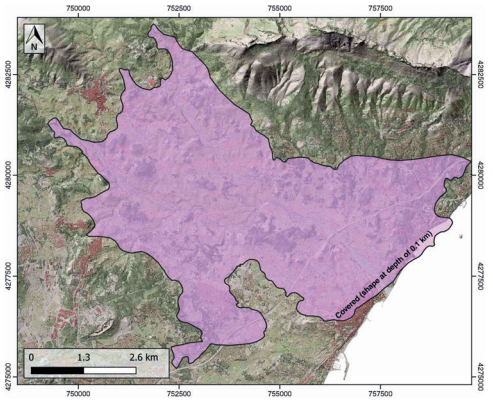
LOCATION

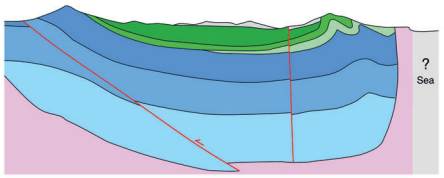


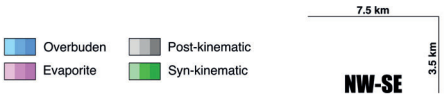
STRATIGRAPHY AND STRUCTURE

Evaporite unit/s composition	Gypsum-Anhydrite-Mudstone-Sandstone
Post-evaporite and pre-kinematic unit/s	Lower Jurassic (limestones) ; Barremian-Albian (limestones, marls, micritic limestones) ; Upper Cretaceous (tabular limestones, marly limestones, calcarenites, dolostones)
Syn-kinematic unit/s	Eocene (marlstones, marly limestones, limestones) ; Late Oligocene (limestones, carbonate brecchia) ; Aquitanian-Tortonian (shales, brecchias, carbonate brecchia, sandstone, calcariete)
Post-kinematic unit/s (or post-evaporite desposition when undeformed)	Pliocene (conglomerates with carbonate matrix), Quaternary (alluvial detrital deposits)
Age of evaporite flow or deformation (when deformed)	Eocene, Oligocene to Miocene
Flow or deforming triggering mechanisms	Differential loading and lateral migration of the pre-existing near-surface diapir
Halokinetic structures	Reverse faults / anticline-syncline folding / progressive unconformities

SHAPE AND SUB-SURFACE STRUCTURE



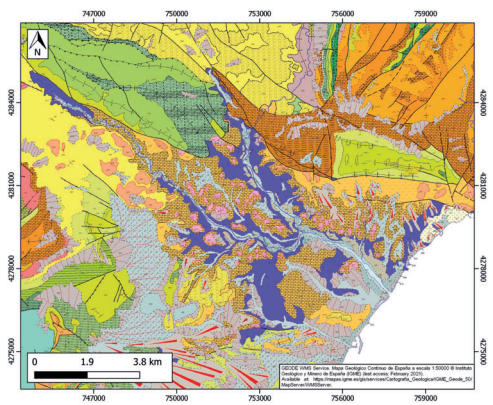




SUB-SURFACE DATA AVAILABILITY

Available borehole data	Yes
Available seismic data	Yes

GEOLOGY (GEODE IGME)



MAIN REFERENCES

Stratigraphy	Hoentzsch et al. (2013)
Regional Stratigraphy	Martín-Martín et al. (2020)
Structure	Pedrera et al. (2014)
Regional Structure	Martínez del Olmo et al. (1986)
Gravimetry	Ayala et al. (2016)
Petrophysics/Paleomagnetics	nd

IBERIAN EVAPORITE STRUCTURE DATABASE