

Txoritokieta-Astigarraga

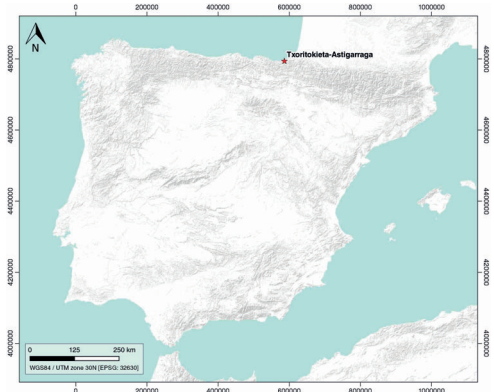
ID #089

SUMARIZED INDEX CARD
Downloaded from Iberian Evaporite Structure DataBase

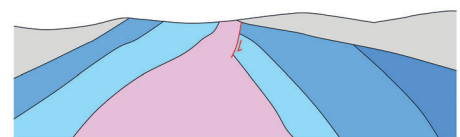
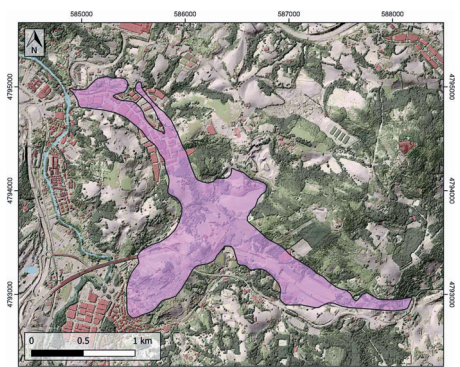
GENERAL INFORMATION

Structure type	Evaporite-cored anticline
Deformed/Undeformed	Deformed
Geological Setting	Basque-Cantabrian Basin, Basque Arc
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)	Ductile piercement
Classif. (Jackson and Talbot, 1986)	Salt pillow
Other comments	Txoritokieta-Astigarraga, Urnieta-Hernani (ID #090) and Oartzun (ID #091) diapirs are nowadays located along the trace of ancient basement faults, probably denoting the preferential migration of the decollement halokinetic layer towards them (see Bodego et al., 2014).

LOCATION



SHAPE AND SUB-SURFACE STRUCTURE



STRATIGRAPHY AND STRUCTURE

Evaporite unit/s composition	Red Claystones-Gypsum-Halite
Post-evaporite and pre-kinematic unit/s	Jurassic (micritic limestones, marlstones and marly limestones) ; Early Upper Albian (Oartzun Fm., limestones, mudstones, sandstones and conglomerates)
Syn-kinematic unit/s	-
Post-kinematic unit/s (or post-evaporite deposition when undeformed)	Middle-Cenomanian (hemipelagic limestones and marls, sandstones) ; Quaternary
Age of evaporite flow or deformation (when deformed)	Middle Cretaceous
Flow or deforming triggering mechanisms	Cretaceous rifting of the Basque-Cantabrian basin
Halokinetic structures	Normal faults / progressive unconformities / anticline-syncline folding

SUB-SURFACE DATA AVAILABILITY

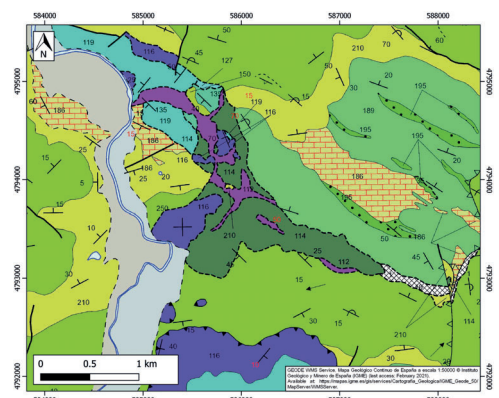
Available borehole data	Yes
Available seismic data	Yes



MAIN REFERENCES

Stratigraphy	Bodego et al. (2018)
Regional Stratigraphy	Pedraza et al. (2017)
Structure	Bodego et al. (2018)
Regional Structure	Cámara (2017)
Gravimetry	Ayala et al. (2016)
Petrophysics/Paleomagnetism	Llamas et al. (2017)

GEOLOGY (GEODE IGME)



IBERIAN
EVAPORITE
STRUCTURE
DATABASE