

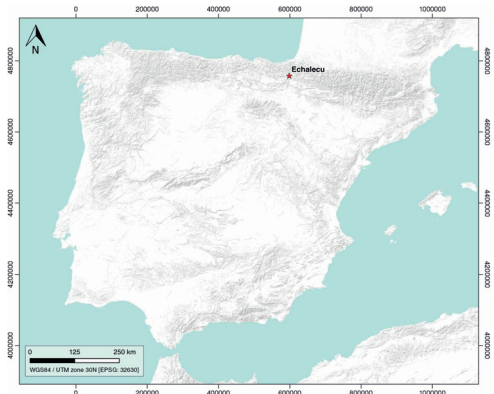
# Echalecu

ID #038

## GENERAL INFORMATION

Structure type	Evaporite Diapir
Deformed/Undeformed	Deformed
Geological Setting	Basque-Cantabrian Basin, Navarra-Álava trough
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)	Thrust piercement
Classif. (Jackson and Talbot, 1986)	Salt roller
Other comments	Alignment of the Salinas del Oro, Anoz, Alloz, Estella, Olo, Echalecu and Iza along the Pamplona fault. Salt motion lasted until syn-orogenic times in the Echalecu diapir (see Ducoux et al., 2020).

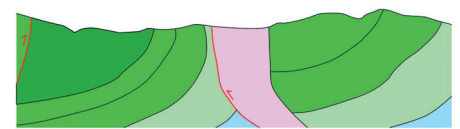
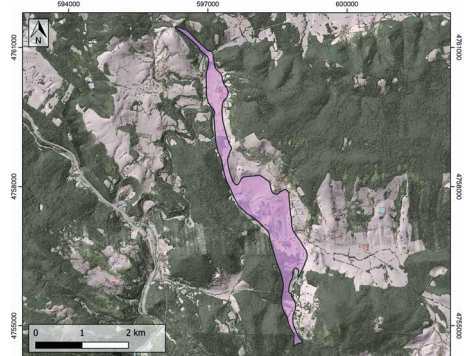
## LOCATION



## SHAPE AND SUB-SURFACE STRUCTURE

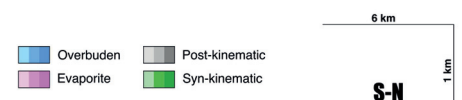
## STRATIGRAPHY AND STRUCTURE

Evaporite unit/s composition	Gypsum-Halite-Anhydrite-Claystone-Ophites
Post-evaporite and pre-kinematic unit/s	Jurassic (limestones, dolostones, oolitic limestones, marls)
Syn-kinematic unit/s	Valanginian – Barremian (Weald facies, limestones, clays and sandstones) / Aptian – Albian (limestones, marls, sandstones and lutites)
Post-kinematic unit/s (or post-evaporite deposition when undeformed)	Quaternary (alluvial and colluvial detrital deposits)
Age of evaporite flow or deformation (when deformed)	Lower Cretaceous
Flow or deforming triggering mechanisms	Mesozoic extension in the Basque–Cantabrian Basin (listric faults and salt tectonics)
Halokinetic structures	Normal high-angle faults / joints / thickness variations / progressive unconformities



## SUB-SURFACE DATA AVAILABILITY

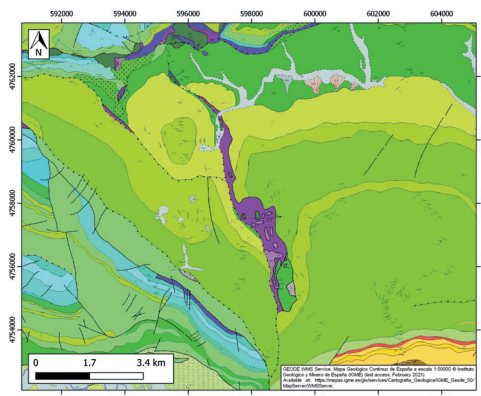
Available borehole data	No
Available seismic data	Yes



## MAIN REFERENCES

Stratigraphy	García-Mondejar et al. (1996)
Regional Stratigraphy	Pedraza et al. (2017)
Structure	Ducoux et al. (2019)
Regional Structure	Cámara (2020)
Gravimetry	Pedraza et al. (2017)
Petrophysics/Paleomagnetism	Llamos et al. (2017)

## GEOLOGY (GEODE IGME)



IBERIAN  
EVAPORITE  
STRUCTURE  
DATABASE