## **SUMARIZED INDEX CARD**

Downloaded from Iberian Evaporite Structure DataBase

ID #143

#### **GENERAL INFORMATION**

Structure type	Evaporite Diapir
Deformed/Undeformed	Deformed
Geological Setting	Lusitanian Basin, Central Domain
Outcropping/buried	Outcropping
Evaporite unit/s name	Dagorda Fm.
Evaporite unit/s age	Late Rhaetian-Hettangian (Upper Triassic-Lower Jurassic)
Evaporite unit/s origin	Marine
Classif. (Hudec and Jackson, 2009)	Passive piercement
Classif. (Jackson and Talbot, 1986)	Salt glacier
Other comments	Matacães diapir geometry is the result of different tectonic periods (distensive-compressive) that were registered in the Lusitanian Basin, with special relevance to the Miocene compression. In this context, the Matacaes Diapir has intermediary features between a salt glacier and a "salt tongue".

#### STRATIGRAPHY AND STRUCTURE

Evaporite unit/s composition	Gypsum-Marlstone-Halite-Dolomite-Shales
Syn-kinematic unit/s	Oxfordian-Kimmeridgian (Alcobaça Fm., marlstones and limestones); Tithonian (Lourinha-Boa Viagem Fm sandstones, claystones and conglomerates); Berriasian-Aptian (Torres Vedras Fm., sandstones and claystones); Late Cretaceous-Miocene (Grés Superiores-Gándara Fm., sandstones and claystones)
Post-evaporite and pre-kinematic unit/s	Early-Middle Jurassic (Brenha Fm., marlstones, limestones and marly limestones)
Post-kinematic unit/s (or post-evaporite desposition when undeformed)	Late Miocene (Moreia Fm.) ; Pliocene ; Quaternary
Age of evaporite flow or deformation (when deformed)	late Cretaceous to Miocene, Upper Jurassic to Lower Cretaceous
Flow or deforming triggering mechanisms	Extension and Late Jurassic-Early Cretaceous rifting and Alpine compression (inversion)
Halokinetic structures	Syncline-Anticline folding / normal faults / thrust fault

### SUB-SURFACE DATA AVAILABILITY

Available borehole data	No
Available seismic data	No

#### **MAIN REFERENCES**

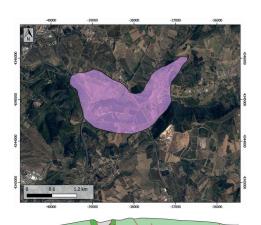
Stratigraphy	Miranda et al. (2010)
Regional Stratigraphy	Davison and Barreto (2020)
Structure	Miranda et al. (2010)
Regional Structure	Pimentel et al. (2016)
Gravimetry	Miranda et al. (2010)
Petrophysics/Paleomagnetics	Sêco et al (2019)

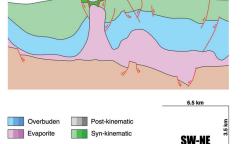


#### **LOCATION**



# SHAPE AND SUB-SURFACE STRUCTURE





#### **GEOLOGY (GEODE IGME)**

