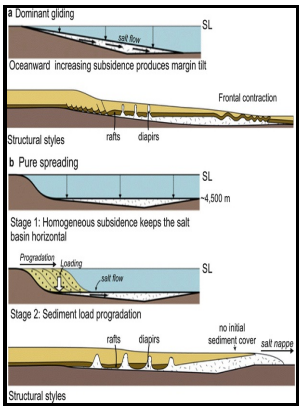
Salt tectonics. edited by G.I. Alsop [and others]

Geological Society - Interconnection salt diapir



Description: -
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CPC Technique
Mineral deposits - Sudbury
Diapirs
Evaporites
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Interconnection salt diapir

It corresponds to a salt structure showing a large salt canopy overhanging buried diapir. Recent improvement in drilling and seismic technologies led to a surge of large allochthonous salt on deep water passive margin.

Slope Tectonics Special Publication 351 Geological Society Special Publication PDF Book

Mohriak, Peter Szatmari, Sylvia Anjos, 2012. The seismic sections were provided by ETAP Petroleum National Company and the Carthago Oil Company Tunisia. Physical modelling of overburden deformation around salt diapirs.

Salt: geology and tectonics of selected Brazilian basins in their global context

The geometry of drag zones adjacent to salt diapirs. GCSSEPM Foundation 16th Annual Research Conference Proceedings, 3-5th December Houston Texas, 33-40.

The Geological Society

Salt tectonics at the offshore Peniche Basin, based in seismic interpretation. The half-graben, which usually characterizes this growth, develops salt diapir in case of sufficient buried underlaying salt budget. The minibasin has a thickness practically correlated to the budget of salt evacuation toward the diapiric structure.

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In the Tunisian Tell and Atlas, the allochthonous nature of the Upper Triassic Carnian to Norian salt has been confirmed in several exploration wells, and also supported by reflection seismic evidence. Instead, they were generally thicker in numerous rift basins such as the Nordkapp, Tromsø, and Danmarkshavn basins, and thinner or absent over the rift shoulders and platform areas. This is in contrast with the increase of the Lower to Middle Jurassic marine succession, hence suggesting an early movement of the salt, creating accommodation space for open marine sedimentation.

Salt Tectonics

Figure taken from Yovanovitch 1922 , which was one of the first studies reporting salt structures in black; labeled with S in northern Africa and the relationships with the hydrocarbon occurrence. The distribution was controlled by some combination of prior rifting and associated thermal subsidence and ongoing rifting during the late Paleozoic, all presumably related to post-Caledonian orogenic collapse. Due to several periods of regional extension, halokinesis began as soon as the early Jurassic and continues until the present.

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In this book, we build on his overview, highlighting the origin of some concepts used in salt tectonics developed by researchers working and analyzing Permian and Triassic structures in Europe, North Africa, and the Atlantic margins.

Salt Tectonics Research

Surface and subsurface data are used to illustrate the halokinetic style, structural evolution and kinematics of the Lansarine—Baouala salt structure in the Alpine domain of Tunisia. Salt is itself associated to this evolution in which the overburden moves with gravity spreading driven by the differential load of tectonic blocks Alsop and Marco, 2014.

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