

Salt Basins: from deposition to deformation (TS13.1)

Online discussion chat: Thursday 7th May, 08:30-10:15 CEST (07:30-9:15 BST)

Convenor: Leonardo Muniz Pichel (Imperial College London)

Co-convenors: Zoë Cumberpatch (University of Manchester), Oriol Ferrer (University of Barcelona), Virginie Gaullier (University of Lille), Gaia Travan (University of Lille)

- We will discuss displays in the order they appear in the programme, which may be different to that shown down the side of the chat.
- All abstracts listed below will be discussed, if authors are not present we will move on to the next author
- Depending on the amount of authors present we will have between 6-8 minutes to discuss each display
- Authors are asked to prepare a short (1-4 sentence) introduction to themselves and their work, following this question will be taken from the floor.
- Time permitting we can return to previous abstracts/displays at the end or have a more broad discussion on the future of salt tectonics.
- We ask authors to promote their presentations and the session on social media etc. using #ShareEGU20 and #saltsaturday

Displays

***D1394: The Barreme Basin and the Gevaudan diapir - an example of the interplay between compressional tectonics and salt diapirism – Adam Csicsesk and Rod Graham**

***D1395: How pre- and syn-Hormuz formations were incorporated into the Zagros salt diapirs and reached the surface? - Gabor Tari, Gholamreza Gharabeigli, Abbas Majidi, Tam Lovett, Ali Asghar Julapour, Ralph Hinsch, Christopher Sellar, and Walter Kosi**

***HIGHLIGHT: D1396: 3D seismic imaging reveals salt-magma interactions in the Santos Basin, offshore Brazil - Craig Magee, Leonardo Muniz-Pichel, Amber Madden-Nadeau, and Christopher Jackson**

***D1397: Influence of a multi-layered salt stratigraphy on rift-basin development; Insights from the Slyne and Erris basins, offshore NW Ireland - Conor O'Sullivan, Conrad Childs, Muhammad Saqab, John Walsh, and Patrick Shannon**

***D1398: Ramps, Flats, and Rubble Zones: Case Studies of Deformation beneath Allochthonous Salt in the Flinders Ranges, South Australia - Lillian Lueck and Mark Fischer**

***D1399: Testing numerical models of subsalt deformation through field observations: Case studies from the Flinders Ranges, South Australia - Mackenzie Wegmann, Mark Fischer, Lillian Lueck, and Madison Schweitzer**

***D1400: Salt tectonics in the Inner Western Carpathians (Silica Nappe, Aggtelek Hills): investigating the role of inherited Triassic salt structures during the Alpine deformation - Éva Oravecz, Gábor Héja, and László Fodor**

D1401: Growth of carbonate platforms controlled by salt tectonics (Northern Calcareous Alps, Austria - Philipp Strauss, Jonas Ruh, Benjamin Huet, Pablo Granado, Josep Anton Muñoz, Klaus Pelz, Michael König, Eduard Roca, and Elizabeth P Wilson

***D1402: Salt tectonics in the Subalpine Chains of SE France, from rifting to Alpine shortening - Samuel Brooke-Barnett, Adam Csicsek, Rodney Graham, and Lidia Lonergan**

D1403: Salt tectonics in the Eastern Mediterranean: Chronology, kinematics, and driving forces - Elchanan Zucker, Yechiel Ben Zeev, Yehouda Enzel, and Zohar Gvirtzman

D1405: Base-salt Relief Controls Salt-related Contractional Styles in the Translational Domain of the Outer Kwanza Basin, offshore Angola – Aurio Erdi and Christopher Jackson

***D1406: Halokinetic modulation of sedimentary systems: an integrated approach - Zoe Cumberpatch, Emma Finch, Ian Kane, Christopher Jackson, David Hodgson, Ben Kilhams, and Leonardo Pichel**

D1410: Relationship between salt and crustal tectonics in the Sørvestsnaget Basin, SW Barents Sea - Gaia Travan, Benjamin Bellwald, Sverre Planke, Virginie Gaullier, Dwarika Maharjan, and Bruno C. Vendeville

***D1412: Cenozoic salt remobilization at the Baltic Sea sector of the northeastern North German Basin margin - Niklas Ahlrichs, Elisabeth Seidel, Vera Noack, Hendrik Huster, and Christian Hübscher**

D1413: The Structural Characteristics of Salt Rocks and Their Impact on the Oil and Gas Distribution in Yingxiongling Area, Qaidam Basin – Wu Na

*indicates a visual has been uploaded associated with this display

Discussion topics

In your opinion what are the big questions that remain unanswered in salt tectonics?

How can salt tectonics research be applied in a low carbon world?

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