

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

Online discussion chat: Thursday 7<sup>th</sup> 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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