

Session SSP2.14/GMPV10.4/NH2.13

**Volcanism, impacts, and extinctions: links between deep time
and the Anthropocene**

Convener: Thierry Adatte, Co-conveners: David Bond, Alicia Fantasia, Nicolas Thibault

Chat time: Wednesday, 6 May, 16:15 – 18:00

Chat conveners: Alicia Fantasia and Thierry Adatte

Session information: We are presently facing the 6th mass extinction, what can be learnt from the past? The aim of the session was to focus on the six major Phanerozoic mass extinctions including the Anthropocene one, but contributions from other environmental crises (e.g. OAEs, PETM) were also welcome.

Chat session information: 8 abstracts with supporting material will be discussed. To ensure fair time-share, about 10 minutes will be allocated to each abstract. The authors will be called in the order of appearance in the programme and they will be asked to introduce in few lines the main goals and outcomes of their research (please be prepared and copy/paste your text). After that, the chat will be open for questions/comments and we kindly ask the chat participants to stay focused on the subject area of the session. For the authors, please cite “user/question” when answering a question. Chairpersons will moderate the chat discussion. At the end of the abstract chat session, there will be an open-questions/discussion time (including abstracts without uploaded material).

Important notice: The EGU Sharing Geoscience Online 2020 is an unprecedented experiment and the Programme Committee would be happy to have your feedback (<https://egu2020.eu/feedback>). We hence would like to ask you to take 5-10 minutes to complete the questionnaire before the chat session closes.

Programme: *Chairperson: Alicia Fantasia and Thierry Adatte*

- **Abstracts with uploaded material:**

1. D932_EGU2020-6727 | **Solicited** | **Highlight**: Constraining North Atlantic Igneous Province (NAIP) activity during the late Paleocene and early Eocene. *Morgan Jones, Ella Stokke, Lars Augland, Philip Pogge von Strandmann, Emma Liu, Tamsin Mather, Alan Rooney, Jessica Tierney, Jessica Whiteside, Christian Tegner, Bo Schultz, Sverre Planke, and Henrik Svensen.*

2. D935_EGU2020-14578: Voluminous crustal degassing and immiscible sulfide genesis caused by magma-shale interaction in Large Igneous Provinces. *Frances Deegan, Jean Bédard, Valentin Troll, Keith Dewing, Harri Geiger, Steve Grasby, Valeria Misiti, and Carmela Freda*.
3. D936_EGU2020-2141 | **Highlight**: Refining the temporal relation between Large Igneous Provinces and carbon cycle perturbations: not every LIP triggers environmental crises, not every crisis is due to a LIP! *Urs Schaltegger, Philipp Widmann, Nicolas D. Greber, Luis Lena, Sean P. Gaynor, Torsten Vennemann, and Hugo Bucher*.
4. D942_EGU2020-2002: Faunal and environmental changes through the Cretaceous-Paleogene boundary (K-Pg) linked with Deccan Volcanism: evidence from the Neo-Tethys, Turkey. *Ali Uygar Karabeyoglu, Thierry Adatte, Valentin Lorenzo, Jorge Spangenberg, Sevinç Özkan Altiner, and Demir Altiner*.
5. D943_EGU2020-1037: Anoxic bottom water condition during the Deccan volcanism: Multi-proxy evidences from a shallow marine sequence in Rajahmundry, SE India. *Sohom Roy and Prasanta Sanyal*.
6. D944_EGU2020-4201 | **Highlight**: Late Maastrichtian global warming triggered by Deccan dykes and sills, evidence from Malwa and Mandla regions, Central India. *Thierry Adatte, Michael Eddy, Blair Schoene, Gerta Keller, and Syed Khadri*.
7. D947_EGU2020-18885: Hyaloclastite formation during the effusion of the first lava flows of Siberian traps into a shallow freshwater basin. *Alexander G. Polozov, Sverre Planke, John A. Millett, Dmitrii A. Zastrozhnov, Dougal A. Jerram, and Henrik H. Svensen*.
8. D948_EGU2020-21766: The Siberian Traps magma emplacement dynamics links to environmental changes across the Permian-Triassic boundary in Svalbard. *Sverre Planke, Alexander Polozov, John Millett, Dougal Jerram, Dmitrii Zastrozhnov, Henrik Svensen, Lars Augland, Morgan Jones, Valentin Zuchuat, Arve Sleveland, Ivar Midtkandal, Richard Twitchett, and Jan Inge Faleide*.

- **Open questions and discussion** (including abstracts without uploaded material)
- **Closing remarks** (session ends at 18:00 and chat closes at 18:30)