

OS4.4 Tides of the past, present and future

Co-organized by G3/NH5

Conveners: Joanne Williams, Mattias Green, Michael Schindelegger, Sophie-Berenice Wilmes

Chat time: Monday, 4 May 2020, 14:00–15:45 <https://egu2020.eu/chat/chat36179.html>

Displays: <https://meetingorganizer.copernicus.org/EGU2020/session/36179>

Welcome to the Tides session! We will be going through the displays in numerical order, as listed below and on the website. This will jump between topics a little, but hopefully it will make it easier to follow. We will introduce a new display about every 5 minutes. If you have more questions that the author doesn't have time to answer, then you can also use a comment directly on that display.

We will concentrate on the displays that have been uploaded, but feel free to ask about the other abstracts and it may be that one of the co-authors is present to answer.

Please use your full name in the chat so everyone knows who you are, and (auth) if you are an author in this session. We have been asked not to record the chat session, so if you have eg references to post to authors it might be best to put the details in comments on their display. Keep it professional and friendly, and remember that this is new to all of us so be patient!

Thank-you all for participating, and best wishes to all our authors

Jo, Mattias, Michael and Sophie.

Times are approximate, for guidance only.

14:00 - introduction

14:00 D2835 | **The authors have apologised, due to current circumstances they are unable to participate.** EGU2020-2835 | **Highlight**

[Sea-level rise impacts on the tides of the European Shelf: mechanisms analysis](#)

Deborah Idier, François Paris, Goneri Le Cozannet, Faiza Boulahya, and Franck Dumas

14:05 D2836 | **Uploaded** EGU2020-10007

[Tidal and near-inertial energy density and energy fluxes over the Reykjanes Ridge](#)

Clément Vic, Bruno Ferron, Ivane Salaün, Virginie Thierry, and Herlé Mercier

14:10 D2837 | **Uploaded** EGU2020-16421| **Highlight**

[The impact of Arctic sea ice cover on seasonal modulation of the M2 tide](#)

Inger Bij de Vaate, Amey Vasulkar, Cornelis Slobbe, and Martin Verlaan

14:15 D2838 | EGU2020-12500

[The dissipation of the internal tide inferred from a global ocean model, altimetry, and in-situ observations](#)

Maarten Buijsman, Harpreet Kaur, Zhongxiang Zhao, Amy Waterhouse, and Caitlin Whalen

14:15 D2839 | [Uploaded](#) EGU2020-10392

[**Free Core Resonance parameters from diurnal strain tides recorded by the Gran Sasso \(Italy\) and Canfranc \(Spain\) underground geodetic interferometers**](#)

Antonella Amoruso and Luca Crescentini

14:15 D2840 | [The authors have apologised, due to current circumstances they are unable to participate.](#) EGU2020-4387

[**The time-varying characteristics in tidal duration asymmetry**](#)

Guo Wenyun, Song Dehai, Guo Leicheng, Ge Jianzhong, Ding Pingxing, and Wang Xiaohua

14:20 D2841 | [Uploaded](#) EGU2020-12115 | [Highlight](#)

[**The effects of tidal changes on the frequency of nuisance flooding events in the United States**](#)

Sida Li, Thomas Wahl, David Jay, Stefan Talke, and Lintao Liu

14:25 D2842 | [Uploaded](#) EGU2020-10207

[**New unconstrained global ocean tide solutions for satellite gravimetry including minor tides**](#)

Roman Sulzbach, Henryk Dobsław, and Maik Thomas

14:30 D2843 | [Expected](#) EGU2020-17758

[**Resolution and significant contributions of tidal forcing in flexible harmonic grouping computed using Singular Value Decomposition**](#)

Adam Ciesielski and Thomas Forbriger

14:35 D2844 | [Uploaded](#) EGU2020-5446

[**Efficient Calibration of a Global Tide and Surge Model**](#)

xiaohui wang, Martin Verlaan, and Hai Xiang Lin

14:40 D2845 | EGU2020-22142

[**Ensemble Water Level Prediction System: Improving the Representation of Model Uncertainty**](#)

Natacha Bernier, Oleksandr Huziy, Keith Thompson, Pengcheng Wang, Benoit Pouliot, and Syd Pell

14:40 D2846 | [Uploaded](#) EGU2020-1359

[**Tidal asymmetry in the Sylt-Romo Bight, south-eastern North Sea**](#)

Vera Fofanova, Alexey Androsov, Lasse Sander, Ivan Kuznetsov, Felipe Amorim, H. Christian Hass, Finn Mielck, and Karen Helen Wiltshire

14:45 D2847 | [Uploaded](#) EGU2020-1640

[**A comparison study of tidal prediction techniques for applications in the German Bight**](#)

Andreas Boesch and Simon Jandt-Scheelke

14:50 D2848 | [Uploaded](#) EGU2020-8382

[**Interannual stratification changes affect tides in the Gulf of Maine**](#)

Daniel Kotzian, **Michael Schindellegger**, Mattias Green, and Sophie Stolzenberger

14:55 D2849 | EGU2020-13544

[**Impact of sea level variations on hydrographic survey around Taiwan**](#)

Wen-Hau Lan, Chung-Yen Kuo, Sheng-Fong Lin, and Chien-Hsing Lu

14:55 D2850 | EGU2020-1046 | **Highlight**

Sea level rise in the Venetian lagoon inferred from the 150-year-long tidal record

Sara Rubinetti, Carla Taricco, Davide Zanchettin, Enrico Arnone, and Angelo Rubino

14:55 D2851 | The author has apologised, due to current circumstances they are unable to participate.

EGU2020-4487

Review and Assessment of gap-filling methods from tide-gauges: Maxima missing at the Esbjerg, Denmark station, before 1910.

Peter Thejll

14:55 D2852 | **Uploaded** EGU2020-1561

Automating Tide Gauge Quality Control

Joanne Williams and Andrew Matthews

15:00 D2853 | **Uploaded** EGU2020-596 | **Highlight**

Back to the future 3: Analysing tectonically induced tidal resonance with conceptual models

Hannah Davies, J.A. Mattias Green, and Joao C. Duarte

15:05 D2854 | **Uploaded** EGU2020-9930

The impact of tidal dissipation changes on the Last Glacial Maximum AMOC

Sophie-Berenice Wilmes, Mattias Green, and Andreas Schmittner

15:10 D2855 | **Uploaded** EGU2020-11923 | **Highlight**

Tidal circulation in an Early Permian epicontinental sea: insights from a mathematical modeling approach

Mariane Candido, Joice Cagliari, and Ernesto Luiz Lavina

15:15 - 15:45 Further questions on any presentation