

Global science of meteotsunamis: from planetary to mesoscale processes (GLOMETS)

Research project of the Croatian Science Foundation

Kick-off meeting

Institute of Adriatic Crops and Karst Reclamation, Split, Croatia & online

21-22 February 2024

Meeting agenda

21 February 2024

<https://us06web.zoom.us/j/84921713731?pwd=zKYCC34rjdbNhi5kKH19yXd4U6qN2j.1>

Meeting No: 849 2171 3731, Passcode: 426130

09:30 – 09:45 Welcome words, Tour de Table

09:45 – 10:00 Ivica Vilibić: GLOMETS basic facts and motivation

10:00 – 10:20 Petra Zemunik et al.: The MISELA dataset and global analyses of high-frequency sea-level oscillations

10:20 – 10:40 Joan Villalonga, Gabriel Jordà et al.: Observational characterization of atmospheric disturbances generating meteotsunamis in the Balearic Islands

10:40 – 11:00 Joan Villalonga, Gabriel Jordà et al.: Influence of spatially correlated noise in the generation of meteotsunamis in Ciutadella

11:00 – 11:20 Ulpu Leijala, Jani Särkkä, Antti Mäkelä, Jenni Rauhala, Havu Pellikka: Co-occurrence of meteotsunamis, convective storms and lightning on the Finnish coast

11:20 – 11:40 Mohammad Heidarzadeh et al.: Meteo-tsunami hazards in the UK: past events and future scenarios

11:40 – 12:00 Clare Lewis et al.: Meteotsunami dynamics in the UK: Investigating occurrence, mechanisms, intensity and impacts

12:00 – 12:30 Coffee break

12:30 – 12:50 Gözde Güney Doğan, Hasan Gökhan Güler, Bilge Karakütük, Ahmet Cevdet Yalçiner, Işikhan Güler: 26-27 November 2023 Destructive storm events along the Black Sea coast of Türkiye: Preliminary analysis and survey findings

12:50 – 13:10 Ahmet Cevdet Yalçiner, Gözde Güney Doğan et al.: Ocean modelling for long waves due to atmospheric disturbances: NAMI DANCE applications

13:10 – 13:30 Iva Tojčić et al.: Performance of the Adriatic early warning system during the multi-meteotsunami event of 11–19 May 2020

- 13:30 – 13:50 Joan Villalonga, Gabriel Jordà et al.: Observational study of the heterogeneous global meteotsunami generated after the Hunga Tonga–Hunga Ha’apai volcano eruption
- 13:50 – 14:10 Ahmet Cevdet Yalçiner, Gözde Güney Doğan et al.: Modeling of air pressure wave propagation and consequent tsunami due to the January 2022 Tonga eruption
- 14:10 – 14:30 Ivica Vilibić et al.: Studies on the January 2022 Hunga Tonga-Hunga Ha’apai eruption: modelling of global hazard and a bibliometric study
- 14:30 – 15:15 General discussion

Lunch

22 February 2024

<https://us06web.zoom.us/j/83812247314?pwd=sV5dwKgMjIjOjKSUPeAqEQCUgHIEvm4.1>

Meeting No: 838 1224 7314, Passcode: 801115

- 09:30 – 10:00 Ivica Vilibić: GLOMETS workplan – deliverables, milestones, finances, opportunities and bottlenecks
- 10:00 – 10:30 Discussion and work-to-do: Sea-level networks, minute sea-level dataset (MISELA)
- 10:30 – 11:00 Discussion and work-to-do: Observational and modelling meteotsunami studies
- 11:00 – 11:30 Discussion and work-to-do: Projecting meteotsunamis in the future climate

11:30 – 12:00 Coffee break

- 12:00 – 12:30 Discussion and work-to-do: Planetary meteotsunami waves induced by volcanic explosions
- 12:30 – 13:00 Discussion and work-to-do: Hazard and risk assessment
- 13:00 – 13:30 Discussion and work-to-do: Surrogate and stochastic techniques
- 13:30 – 14:00 Discussion and work-to-do: Training and dissemination
- 14:00 – 14:30 Ivica Vilibić: Wrap-up and to-do list

Lunch