

Scientific Event Report

A **Space Studies of the Earth's Surface, Meteorology and Climate**

A0.2 **Coastal Resilience to Hazards: Bridging the Gap between Earth Observations and User Needs**

Main Scientific Organizer *Hasson, Audrey*

Deputy Organizer *Benveniste, Jérôme*

Coastal Resilience to Hazards: Bridging the Gap between Earth Observations and User Needs I

Chair: Rosa, Alexandra

Date: Monday, Aug 03, 2026. Room: Arsenale - Fureria 2

A0.2-0001-26 09:00 - 09:15

Session Introduction by Audrey Hasson

Rosa, Alexandra

A0.2-0002-26 09:15 - 09:45 (solicited)

The CoastPredict Program and GlobalCoast: transforming observing and predicting of the global coastal ocean

Pinardi, Nadia; Benveniste, Jérôme; Kourafalou, Villy; Tintoré, Joaquín; Heslop, Emma; Yñiguez, Aletta; Coppini, Giovanni; O'donovan, Mairéad

A0.2-0003-26 09:45 - 10:00 (solicited)

Committee on Earth Observation Satellites (CEOS) COAST initiative: Earth Observation for coastal hazards

Benveniste, Jérôme; Sharma, Rasmi; Carbonnière, Aurélien; Pahlevan, Nima; Digiacomo, Paul M.

A0.2-0004-26 10:00 - 10:15

Advancing Coastal Hazard Monitoring, Modelling, and Resilience Assessment from Space

Turki, Emma Imen Team: Coastal Resilience to Hazards

A0.2-0005-26 10:15 - 10:30

Integration of satellite subsidence and sea-level data for evaluating the mean high-water line in the Bangkok region

Niemnil, Sommart Team: TU Delft

Coastal Resilience to Hazards: Bridging the Gap between Earth Observations and User Needs II

Chair: Rosa, Alexandra

Date: Monday, Aug 03, 2026. Room: Arsenale - Fureria 2

A0.2-0006-26 11:00 - 11:15

Tsunami Formation Theory and GNSS-Aided Tsunami Early Detection System

Song, Y. Tony

A0.2-0007-26 11:15 - 11:30

Applying Multi-Satellite Observations to Monitor Coastal Geomorphology

Tseng, Kuo-Hsin

A0.2-0008-26 11:30 - 11:45

An AI Framework for Daily Mudflat Surface Temperature Estimation Using VIIRS L1B Thermal Bands

Kim, Seoyeon; Lee, Yangwon

A0.2-0009-26 11:45 - 12:00

High-resolution Earth observation for coastal monitoring and management: the CoastOM project initiative

Bretagnon, Marine; Prat, Aurelien; Mangin, Antoine; Bryère, Philippe

A0.2-0010-26 12:00 - 12:15

Origins and pathways of the floating Sargassum in the Yellow and East China Seas

Park, Young-Gyu; Seo, Seongbong; Kim, Kwangseok; Choi, Jun Myoung; Park, Young-Je

A0.2-0011-26 12:15 - 12:30

Questions & Answers

Rosa, Alexandra

Coastal Resilience to Hazards: Bridging the Gap between Earth Observations and User Needs III

Chair: Benveniste, Jérôme

Date: Monday, Aug 03, 2026. Room: Arsenale - Fureria 2

A0.2-0012-26 17:30 - 17:45

Harmful Algal Bloom Adaptation: Integrating Earth Observation with Ocean Modelling for Operational Mapping of Safe-to-Harvest Areas of Shellfish

Silva, Edson; Pettersson, Lasse

A0.2-0013-26 17:45 - 18:00

Satellite-Derived Harmful Algal Bloom Indicators for Assessing Coastal Vulnerability and Resilience

Kim, Wonkook

A0.2-0014-26 18:00 - 18:15

The performance of a high resolution ICON model in the simulation of severe cyclone Amphan over the Bay of Bengal using ERA5

das, Anirban; Bal, Sourabh; Kirchner, Ingo

A0.2-0015-26 18:15 - 18:30

Physics-Constrained Super-Resolution of KMA Hybrid Surface Rainfall for Daily 125 m Precipitation Mapping over South Korea

Youn, Youjeong; Lee, Yangwon

A0.2-0016-26 18:30 - 18:45

Towards a Resilient Catalan Coast: Early Warning Indicators from High-Resolution SWAN Simulations

Ponce de León Álvarez, Sonia; Benveniste, Jérôme; Isern-Fontanet, Jordi; García Ladona, Emilio; Ballabrera-Poy, Joaquim; Martínez, Justino; Gonzalez-Haro, Cristina; Iglesias, Jordi; Solé, Jordi Team: WAPOSAL-ICM-CSIC

A0.2-0017-26 18:45 - 19:00

Discussion on Knowledge and Data Gaps Assessment for Coastal Resilience

Benveniste, Jérôme

Poster Program

