MONDAY - September 9th						
12:00 - 13:00	**1.1 - Numerical wave modelling (1)** **Room A: AULA MAGNA** **Chair: Riccardo Briganti**	**1.2 - Shoreline modelling (1)** **Room B: AULA PACIFICUS** **Chair: Dano Roelvink**	**1.3 - Rubble mound breakwaters (1)** **Room C: AULA ATLANTICUS** **Chair: Josep Medina**	**1.4 - Compound coastal flooding (1)** **Room D: AULA ANTARCTICUS** **Chair: Jennifer Irish**	**1.5 - Large scale coastal management (1)** **Room E: AULA INDIANUS** **Chair: Jane Mckee Smith**	**1.6 - Vegetation hydrodynamics (1)** **Room F: AULA MEDITERRANEUM** **Chair: Harshinie Karunarathna**
12:00 - 12:15	285. Michaud: 'Improving wave transformations on rough bottom in a 3D phase resolved model with laboratory and field campaigns'	162. Repina: 'Simulating longshore shoreline change: Improving performance of one-line models'	157. Roca: 'Systematic testing of a novel breakwater armour toe solution: the ACCROBERM™ I'	491. Camus: 'Assessing compound flooding hazard in estuaries by integrating a climate emulator and hybrid metamodel'	556. de Freitas Pereira: 'A new methodology to assess surfing changes due to coastal works'	137. Wang: 'Wave attenuation in a partially vegetated wave flume'
12:15 - 12:30	234. Antuono: 'The depth semi-averaged model: an alternative approach to the description of coastal dynamics'	648. Scipione: 'A comprehensive one-line model for shoreline evolution estimation'	493. Shand: 'Unreal XblocPlus - Use of a multi-model approach to assess seismic and post-seismic performance of a single layer armour revetment'	178. Islam: 'Bivariate copula approach for quantifying the joint probability of coastal texas compound flood hazards'	223. Silva: 'Sustainable management of the Mexican Caribbean'	188. Aoki: 'Experimental study of the effect of vegetation on wave overtopping under strong winds'
12:30 - 12:45	377. Malej: 'Modeling the optical signature induced by wave breaking using a Boussinesq model'	762. Huisman: 'Morphological impact of Coastal Structures in the one-line Shorelines model'	729. Demmers: 'Development of integrated tidal pools for an XblocPlus armour layer'	414. Jo: 'Compound flooding of wave overtopping and storm surge using a fully coupled surge, wave and tide model'	714. Tonnon: 'An Integrated coastal management strategy for the Saint-Louis region, Senegal.'	436. Liang: 'The impact of turbulence on sediment erosion around submerged aquatic vegetation'
12:45 - 13:00	411. Mihami: 'Development of an optimized Boussinesq-type model for operational assessment of wave-driven flooding'	600. Perry: 'Investigating the past and future efficacy of sand recycling in Adelaide, South Australia using the one-line model 'ShorelineS''	520. Sayar: 'Hydraulic performance of ecofriendly breakwater armour units'	320. Toyoda: 'Assessment of compound flooding for Ise Bay, Japan using typhoon track ensemble experiments'	981. Lima: 'Cost-benefit meets coastal management: the Portuguese paradigm shift'	#N/D
14:00 - 14:45	**P1.1 - Aquatic vegetation reefs** **Room A: AULA MAGNA** **Chair: Jiarui Lei**	**P1.2 - Remote sensing and monitoring** **Room B: AULA PACIFICUS** **Chair: Andrea Lira Loarca**	**P1.3 - Rubble mound breakwaters** **Room C: AULA ATLANTICUS** **Chair: Patricia Mares-Nasarre**	**P1.4 - Climate change** **Room D: AULA ANTARCTICUS** **Chair: Achilleas Samaras**	**P1.5 - Coastal evolution** **Room E: AULA INDIANUS** **Chair: Giovanni Malara**	**P1.6 - Wave energy and floating breakwaters** **Room F: AULA MEDITERRANEUM** **Chair: Irene Simonetti**
14:00 - 14:05	521. Falcone: 'Connecting the canopies: submerged and emergent aquatic vegetation'	712. Angelini: 'Shoreline extraction methods and megacusps identification from Sentinel-2 images'	964. Tsaimou: 'Monitoring damage evolution of constructed rubble mound structures'	1082. Anzidei: 'Relative sea level rise projections by 2150 and flooding hazard along the coasts of the Mediterranean Sea'	453. Zhou: 'Mechanisms underlying the formation of cross-shore parallel tidal channel systems'	997. Cervelli: 'A comparative analysis of Wave Energy Converters performance using SWAN and ERA5 datasets with a case study on Pantelleria Island'
14:05 - 14:10	511. Bredes: 'Understanding wave energy transformation through constructed oyster reefs'	869. Damiani: 'Monitoring and modeling coastal morphological changes using video data and Xbeach model'	850. Santamaría: 'Characterization of damage progression using the alternative similarity parameter in rubble mound breakwaters'	1047. Appendini: 'Projected wave climate in the Gulf of Mexico based on synthetic tropical cyclones derived from CMIP6'	368. Manamperi: 'Machine learning techniques for cross shore beach change forecasting'	339. Inal: 'Experimental and numerical investigation of a floating offshore wind turbine platform'
14:10 - 14:15	208. Lan: 'Numerical modeling on wave-current flows and bed shear stresses over an algal reef'	247. Frugier: 'Satellite-based nearshore sandbar detection with implications for beach classification.'	366. Polat: 'Stability of high density cubes on breakwater roundheads'	874. Besio: 'Future wave climate in the Mediterranean sea from an ensemble of 33 GCM-RCMs'	437. Lee: 'Long-term Response of shoreline and depth-contours after nearshore sand mining by equi-wave phase potential concept'	756. Corrales-Gonzalez: 'Case of study for future wave energy exploitability (2020 - 2050) in the Belgian continental shelf'
14:15 - 14:20	316. Xu: 'Wave decay by rigid vegetation under orthogonal wave-current conditions'	193. Goldstein: 'Measuring coastal sediment grain size instantly with Instagrain, a hand-held camera with on-device machine learning'	803. Güler: 'Hydraulic tests on a xblocplus armoured coastal revetment'	614. Hoseini: 'Projecting future Caspian Sea level changes in response to climate change'	322. Barbaro: 'Interactions between river and coastal sedimentary balance and effects of hydraulic works on shoreline changes'	273. Mina: 'SPH numerical modelling of a U-OWC wave energy converter'
14:20 - 14:25	617. Xu: 'Review of wave attenuation by artificial oyster reefs based on experimental analysis'	540. Jolivet: 'Monitoring coastal dynamics after working with nature practices in the Rhône delta'	386. Bayram: 'Haifa breakwater retrofit design'	670. Roberts: 'Incorporating climate change into coastal compound flood risk'	591. Carrion-Bertran: 'Influence of the initial topobathymetry in backshore-nearshore interactions during extreme events'	218. Michele: 'Hydroelastic theory for floating plates of variable flexural rigidity'

14:25 - 14:30	402. Rahman: 'Experimental testing of wave transmission coefficients for oyster shell-filled bag berms'	717. Shin: 'Coastal topographic change analysis using quadrupedal robots and image processing'	560. Kerr: 'Dellanera offshore breakwater study: a multiple model strategy to optimize breakwater location and shape'	645. Sone: 'Effects of climate change on coastal hydrodynamics along the German Baltic Sea Coast'	370. Adell: 'Storm impact on beach nourishment morphology in a shallow bay'	742. Del Bianco: 'Numerical modelling of wave disturbance in a harbour in the presence of a floating breakwater'
14:30 - 14:35	774. Perris: 'First current measurements from coral forereef spurs and grooves on the Great Barrier Reef'	781. Kim: 'Video-based depth inversion in shallow water: a case study at byeonsan beach, south korea'	879. Gianforte: 'A novel BIM opensource platform to support design and maintenance of maritime structures'	#N/D	858. Noh: 'Morphological change simulation using a GPU-based platform'	1050. Castillo: 'Application of rainflow techniques for the analysis of the dynamic response of marine floating elements'
14:35 - 14:40	410. Tognacchini: 'Phase-resolving modeling and observations of nearshore wave transformations in a complex reef environment'	#N/D	#N/D	#N/D	1011. Ribas: 'Modelling the decadal evolution of a deltaic coast under different soft interventions for climate change adaptation'	#N/D
14:40 - 14:45	#N/D	#N/D	#N/D	#N/D	#N/D	#N/D
14:45 - 15:45	**2.1 - Numerical wave modelling (2) Room A: AULA MAGNA Chair: Giorgio Bellotti**	**2.2 - Shoreline modelling (2) Room B: AULA PACIFICUS Chair: Kristen Splinter**	**2.3 - Wave structure interaction (1) Room C: AULA ATLANTICUS Chair: Marcel van Gent**	**2.4 - Compound coastal flooding (2) Room D: AULA ANTARCTICUS Chair: Íñigo Losada**	**2.5 - Large scale coastal management (2) Room E: AULA INDIANUS Chair: Javier Lara**	**2.6 - Mangroves Room F: AULA MEDITERRANEUM Chair: Maike Paul**
14:45 - 15:00	472. Hitzegrad: 'High-fidelity numerical Simulation of oscillating Flows and Turbulence Structures past a single Oyster Individual'	530. Ding: 'Probabilistic long-term and regional shoreline evolution modeling using wave climate emulator'	553. Rozki: 'Numerical Simulation of The Impact Forces Generated by a Swash-Type Flow on an Overtopped Obstacle'	512. de Goede: 'Creating large-scale compound flood models in an automated and reproducible way'	569. Kümmerer: 'Contrasting Shoreline Dynamics in geologically controlled Barriers'	450. Beselly: 'Optimizing mangrove carbon sequestration with a mechanistic mangrove hydro-morphodynamic model'
15:00 - 15:15	977. Knoblauch: 'Geometry evaluating piecewise linear Interface Computation (GE-PLIC) tailored to the numerical Simulation of breaking Waves'	611. Fanti: 'How relevant are uncertainties in global models for assessing storm erosion on barrier islands?'	378. Raby: 'Physical modelling of the Wolf Rock lighthouse'	765. Kurum: 'Integrating climate change projections and hydrodynamic-wave modeling for present and future compound flood risk'	1007. Camarena: 'Development of the Canadian coastal zone information system (CCZIS)'	531. Chang: 'Investigating the impact of mangroves on wave attenuation through physical and numerical modeling'
15:15 - 15:30	999. Scandura: 'SPH numerical simulations of wave breaking over a barred beach'	315. Calcraft: 'A mixture of experts approach combining physics informed and machine learning shoreline models'	783. Dassanayake: 'Effects of “Dynamic Amplification” on small-scale experimental measurements of coastal structures and their implications'	975. Santiago-Collazo: 'Assessing compound flood processes through a multidimensional framework in coastal watersheds'	710. Öztürk: 'Modeling of Climate Change Effect on the Current Power Potential of a Sea Strait'	488. Shin: 'Physical and Numerical Studies on the Efficacy of Mangrove Forests for Wave Attenuation and Structural Impact'
15:30 - 15:45	1063. Fincham: 'Full-scale validation of the RANS k-epsilon turbulence closure model for capturing whitewater reform in the surf zone.'	707. Adeli Soleimandarabi: 'Machine learning for probabilistic prediction of shoreline change'	641. ElDarwich: 'Investigation of hyperbolic paraboloid face profile efficacy for free-surface breakwaters'	877. Tsoukala: 'EWS_CoCoFlood: An early warning system for prediction of compound flood events'	351. Sørensen: 'Effect of 30 years of risk management using sand nourishment'	895. Ohara: 'Wave Attenuation Effects by Mangroves using three-dimensional Numerical Calculations'
16:30 - 17:30	**3.1 - Numerical wave modelling (3) Room A: AULA MAGNA Chair: Giovanni Besio**	**3.2 - Shore protection structures Room B: AULA PACIFICUS Chair: Carla Faraci**	**3.3 - Wave transformation Room C: AULA ATLANTICUS Chair: Mario Calabrese**	**3.4 - Tsunamis (propagation) Room D: AULA ANTARCTICUS Chair: Christopher Bender**	**3.5 - Sediment transport (1) Room E: AULA INDIANUS Chair: David Fuhrman**	**3.6 - Eco-engineering Room F: AULA MEDITERRANEUM Chair: Rosaria Musumeci**
16:30 - 16:45	230. Cagigal: 'An efficient hybrid downscaling of nearshore directional wave spectra for long-term shoreline modelling'	524. Angelis Jr.: 'Coastal flood protection: The physics behind optimal berm structures'	431. Pezzutto: 'Testing the two-dimensional response of a metamaterial-based device for attenuating surface gravity waves'	211. Sato: 'Recent advances of LBM for tsunami modellings: An enhancement of impact pressure calculation by fourth-order cumulant model'	581. de Bakker: 'Implementation and validation of an intra-wave sediment transport module in a depth-averaged non-hydrostatic wave model'	634. Miranda: 'Experimental study on wave overtopping on breakwaters co-located with seaweed aquaculture systems.'
16:45 - 17:00	279. Sato: 'Two-dimensional significant wave forecast by using convolutional LSTM and ERA5 data'	458. Pierro: 'Application of the longshore transport curve as an engineering tool for design of coastal structures'	736. Gruwez: 'Improved semi-empirical model for the spectral wave period on shallow foreshores'	704. Ari Guner: 'Physical modeling of tsunami wave propagation in a meandering channel'	357. Kranenborg: 'RANS modelling sediment transport and morphodynamics of a nourished shoreface'	671. Christiaanse: 'Predicting sea turtle nest flooding on sandy beaches'

17:00 - 17:15	657. Abdolali: 'An overview of multi-scale capabilities of the spectral wave model (WAVEWATCH III) for global and coastal applications. Case study: 2022 Atlantic Hurricane season'	974. Mauti: 'Lessons Learnt on the Design of a Dynamic Cobble Revetment'	831. Hassanpour: 'Hybrid modelling of submerged rubble-mound breakwaters as passive harmonic filter for selective wave transmission'	504. Catalan: 'The role of tsunami resonance on the balance of mechanical energy and its implications for fragility analyses'	595. Fontana: 'Multi-fraction sediment transport modelling in MIKE 3 FM'	1045. Simonetti: 'Prediction of hypoxia in a coastal lagoon using hydrodynamic modelling and machine learning'
17:15 - 17:30	916. Smith: 'Unstructured WAVEWATCH III developments for multiscale modeling'	1010. Benedet: 'Mitigation of Beach Erosional Hotspots with Coastal Structures: The use of Morphological Models to Optimize the Balance between Sand Retention and Downdrift Impacts'	986. Rocchi: 'Reconstruction of the transmitted wave spectra behind a submerged smooth obstacle'	209. Lo: 'Laboratory experiments on the runup of leading-depression n-waves'	726. Kumar: 'SedInterFoam: a multi-phase numerical model for sediment transport and its application to swash zones'	652. Floc'h: 'Acoustic backscatter model for a mixture of sand and shell sediments'
TUESDAY - September 10th						
08:15 - 09:30	**4.1 - Experimental wave modelling (1) Room A: AULA MAGNA Chair: Bruno Castelle**	**4.2 - Dunes (1) Room B: AULA PACIFICUS Chair: Pushpa Dissanayake**	**4.3 - Nature-based solutions Room C: AULA ATLANTICUS Chair: Vicky Stratigaki**	**4.4 - Tsunamis structures interaction (1) Room D: AULA ANTARCTICUS Chair: Daniel Cox**	**4.5 - Climate change and risks (1) Room E: AULA INDIANUS Chair: Fernando Mendez**	**4.6 - Marine plastic litter Room F: AULA MEDITERRANEUM Chair: Jose Alsina**
08:15 - 08:30	194. Melito: 'Experiments on the steady streaming generated by a monochromatic surface wave over smooth and rough bottoms'	310. Conti: 'Slope Stability methods performance in predicting Scarp failures in the absence of Notching.'	201. Tahvildari: 'Quantifying wave loads on near-coast structures behind hybrid nature-based coastal protection'	195. Adams: 'Contribution of momentum in tsunami loading on a vertical seawall.'	627. Verheyen: 'Assessing the impact of sea level rise and long term coastal protection strategies at the Belgian coast'	183. Núñez Pérez: 'Validation of a Numerical Model for Dispersion of Heavy Marine Plastic'
08:30 - 08:45	324. Regout: 'Void Fraction in Highly Unsteady Air-Water Flows'	342. van Wiechen: 'Continuous field measurements of dune slumping during storm surges'	297. Tomiczek: 'Large scale physical model experiments of hybrid green-gray structure performance for overtopping mitigation'	471. Arefi: 'Experimental study on the effects of a canal on the tsunami bore-induced forces exerted on a column'	575. Ito: 'Future projection of Maximum Potential Storm surge considering SST bias for CMIP6 HighResMIP experiment'	629. Faraci: 'The transport of plastic debris in coastal seas: results of physical modeling'
08:45 - 09:00	501. Zhang: 'Turbulence characteristics in the bottom wave-current boundary layer'	372. Schweiger: 'Numerical study on the influence of coastal foredunes on storm-induced erosion'	466. Williams: 'Strengthening the case for Nature Based Solutions in the Caribbean'	1031. Jannah: 'Numerical modelling of breakwater in tsunamis: trough-lead wave & seepage effect'	1044. Dogan: 'Comparative study of extreme sea level predictions in the Mediterranean Sea'	744. Passalacqua: 'Experimental study of microplastic particle transport around sea gravel in waves plus current conditions'
09:00 - 09:15	516. Hu: 'Hydrodynamic forces on near-bed underwater datacenter'	427. Lojek: 'Modeled influence of large-scale tree cover on the erosion process of coastal dunes'	848. Reguero: 'Reefense X-REEFS: hybrid biological and engineered reef structures for Nature-based Coastal Defense'	604. Yamagata: 'Study on Earth Pressure Influence of Inner Core Rubble in fron of Caisson of Breakwater under Tsunami'	156. Giaroli: 'Climate change impacts on storm surge levels in the Mediterranean Sea'	817. Tan: 'Interaction between microplastic particles and submerged vegetation canopies in waves plus current environments'
09:15 - 09:30	839. Mocke: 'Comparison of surf zone turbulence and flow structures in spilling and plunging waves'	791. Piłczynski: 'Enhanced dune erosion due to attenuation of coastal ice phenomena'	1089. Figlus: 'Bio-cementation of coastal sediment features and rock revetments to reduce erosion and flood risk'	780. Zhang: 'Tsunami wave loading and inundation within a partially sheltered structural array'	709. Ohata: 'Long-term evaluations of global extreme sea levels using unstructured grid models'	#N/D
09:45 - 10:45	**5.1 - Runup and swash Room A: AULA MAGNA Chair: Maurizio Brocchini**	**5.2 - Dunes (2) Room B: AULA PACIFICUS Chair: Sierd de Vries**	**5.3 - Venice Lagoon Room C: AULA ATLANTICUS Chair: Enrico Foti**	**5.4 - Tsunamis (volcanoes) Room D: AULA ANTARCTICUS Chair: Stephan Grilli**	**5.5 - Machine Learning and AI (1) Room E: AULA INDIANUS Chair: Giovanni Coco**	**5.6 - Navigation channels Room F: AULA MEDITERRANEUM Chair: Luca Martinelli**
09:45 - 10:00	220. Delisle: 'Swash, moisture, & beach groundwater interactions'	327. van Westen: 'Predicting Sediment Pathways across the Nearshore-Dune System'	526. Pedroncini: 'Operational and structural solutions for a sustainable navigation in the Malamocco – Marghera channel (Venice lagoon)'	318. Nishino: 'Role of Lamb wave and Atmospheric gravity wave for the 2022 Hunga Tonga-Hunga Ha'apai Meteotsunamis'	359. Kim: 'Predicting one-day ahead wave heights using a hybrid model of long-short term memory and artificial neural network with resampling methods'	933. Das: 'Brazos river flood gate project: understanding hydrodynamics and sedimentation using numerical and physical models'
10:00 - 10:15	289. Muscalus: 'Alongshore swash flow variability'	484. Kaersgaard: '10 m pr. year of dune face retreat rates at Danish coastline undulations'	625. Sammarco: 'The Dynamics of the Venice Gate Barriers and the Extreme Event of November 22nd, 2022'	894. Pringgana: 'Numerical simulation of volcanogenic tsunami wave inundation in Tonga'	564. Ishikawa: 'Analysis of rip current generation using AI-based detection data'	116. Kabiling: 'Cost-effective shoaling reduction alternatives for a navigation channel near an inlet'

10:15 - 10:30	690. Sou: 'The turbulence length scales of swash flows generated by solitary waves on a planar slope'	719. Teixeira: 'Exploring the long-term impact of beach entrances on dune development'	932. Bellotti: 'Modal analysis of the Venice Lagoon inlets and the effect of long waves resonance on the Mo.S.E. system barrier gates'	902. Sepulveda: 'Modeling volcanic Lamb-wave-induced tsunamis across planetary-to-coastal scales incorporating topography and global winds'	574. Yun: 'Application of deep learning to unravel nonlinearity in wave breaking using wave flume video images'	122. Klein: 'Calibration and Validation of Practical Models for Channel Siltation'
10:30 - 10:45	499. van Rooijen: 'Observations of wave runup reduction by porous structures'	960. Fleischer: 'Reassessment of the Coastal Protection Dunes as Nature Based Solutions in the Baltic Sea for Climate Adaptation'	861. Sittoni: 'Nature-based Interventions in Venice to restore coastal wetlands'	#N/D	585. Wang: 'Efficient wave condition predictions for coastal structures based on machine learning and phase-resolving numerical simulations'	#N/D
11:15 - 12:15	**6.1 - Machine Learning and AI (2) Room A: AULA MAGNA Chair: Qin Chen**	**6.2 - Dunes (3) Room B: AULA PACIFICUS Chair: Felice D'Alessandro**	**6.3 - Dikes Room C: AULA ATLANTICUS Chair: Jentsje van der Meer**	**6.4 - Extreme events modelling Room D: AULA ANTARCTICUS Chair: Stephane Abadie**	**6.5 - Numerical wave modelling (4) Room E: AULA INDIANUS Chair: Theofanis Karambas**	**6.6 - Sediment transport (2) Room F: AULA MEDITERRANEUM Chair: Ad Reniers**
11:15 - 11:30	224. Laurent: 'AI-base fast computation of nonlinear wave energy transfer'	367. Lamy: 'Air flow and sand transport perturbation over a human-made foredune under offshore wind using computational fluid dynamics'	306. Bruins: 'Repair optimalisation and performance analysis of the asphalt protection layer of the southern breakwater in front of the Port of Amsterdam'	135. Xie: 'Tsunami Generation Procedure using Navier-Stokes solver and an Investigation into the Run-up'	394. Al Khalili: 'Numerical modelling of extreme waves on various bed slopes'	118. Kuriyama: 'Disaster prevention function of nourished beach during 50 years under conditions of sea level rise and land subsidence'
11:30 - 11:45	827. Castro: 'Optimizing neural network training data selection for nearshore sea state forecasting through clustering algorithms'	675. Torres-Freyermuth: 'The role of vegetation structure on reducing dune erosion and wave overtopping'	331. Escudero: 'Predictive tool of seagrass health to optimize the design of Low-Crested Structures'	761. Tokuta: 'Applicability of hybrid 2D and 3D calculation for tsunami caused by submarine volcanic eruption'	821. Zhai: 'Simulation of rogue wave formation in finite depth irregular waves with a fully nonlinear model'	892. Kettler: 'Analyzing upscaled nourishment scenarios for sea level rise mitigation'
11:45 - 12:00	920. Zózimo: 'Deep Learning framework to use complex models in operational forecast systems'	695. Poppema: 'Hybrid dune structures around the world: a new overview and lessons learned'	461. van Bergeijk: 'Erosion process of a Clay Revetment with Grass Cover on Coastal Flood Defences based on Large Scale Physical Model Tests'	758. Nadal-Caraballo: 'Joint probability method aided by metamodel prediction for hurricane hazards'	1001. Dimas: 'Comparison between a Perched Beach and an Artificial Reef in terms of Wave Attenuation'	392. Pearson: 'SedTRAILS: simulating and visualizing coastal sediment pathways'
12:00 - 12:15	993. Pasta: 'Data-driven dynamic models for spatial interpolation of wave energy source characteristics: preliminary experimental validation'	1030. Winters: 'Observations and modeling of a hybrid-dune living shoreline overwash event at a long-period swell dominated beach'	733. Mom: 'Grass sod pulling tests to determine the erosion resistance of various types of grass covers against wave overtopping'	847. Cipollone: 'Smart boundary conditions for numerical modelling of hurricane induced storm surge'	1079. Kakinuma: 'Surface/internal waves generated by air pressure waves over seabed topography'	794. Hansen: 'Sediment transport dynamics across shore-attached sand ridges'
12:15 - 13:00	**P2.1 - Wave modelling Room A: AULA MAGNA Chair: Claudia Reis**	**P2.2 - Sediment transport Room B: AULA PACIFICUS Chair: Sara Corvaro**	**P2.3 - Runup and overtopping Room C: AULA ATLANTICUS Chair: Pilar Díaz-Carrasco**	**P2.4 - Hazard and vulnerability Room D: AULA ANTARCTICUS Chair: Satoshi Takewaka**	**P2.5 - Coastal management Room E: AULA INDIANUS Chair: Davide Pasquali**	**P2.6 - Harbour modelling Room F: AULA MEDITERRANEUM Chair: Fabio Dentale**
12:15 - 12:20	610. Milana: 'Longterm trends of the wave climate off the coast of Rome'	587. Gumbira: 'Wave skewness and asymmetry study using wave phase resolving model'	985. Tuozzo: 'Wave overtopping at vertical walls in shallow water conditions: a predictive formula'	1096. Shao: 'Stakeholder coastal hazard communication and decision making in mobile, AL'	728. Cabrera: 'Integrated framework for coastal zone health index and vulnerability assessment'	168. Rauwoens: 'Evaluation of the accuracy of the generated wave fields in the Coastal & Ocean Basin (COB)'
12:20 - 12:25	687. Yang: 'Study on extremely large storm waves, surges and currents around the eastern coast of Hainan Island'	934. Ehlers: 'Sediment Transport at the Baltic Coast using a non-hydrostatic sigma-grid Model'	697. Kisacik: 'Using Stilling Wave Basin for adaptation measures to sea level rise in coastal areas'	160. Nawarat: 'Risk to European critical infrastructure from coastal flooding'	865. Salvadori: 'Multivariate analysis for the compound assessment of coastal structures: the Mildford-On-Sea (UK) case study'	881. Krautwald: 'Development of a Saltwater-Wave-Current-Flume with Holding Tank and Water Treatment Plant'
12:25 - 12:30	267. Yang: 'Assessing the spatial-temporal wave energy characteristics along the southeast coast of China in a wave simulation study'	938. Xu: 'The impact of silt content on the flocculation process of clay-silt mixtures'	528. Chen: 'Large-scale experiments of wave overtopping at a dike with vegetated foreshore'	626. Bos: 'Economic Evaluation of Adaptive Pathways for flood resilience strategies'	829. Favaretto: 'Update of the vulnerability analysis and management strategy for the coast of the Veneto Region'	205. Thomas: 'Application of ship simulations on the Texas coast to update design guidance for conceptual navigation channel design'
12:30 - 12:35	172. Marchesiello: 'Mechanisms of surfzone mixing in a 3D wave-resolving model'	689. Lim: 'Extraction of transversal and littoral sediment transport vectors from shoreline observation data'	832. Can: 'Investigation of stilling wave basin as an overtopping device-type wave energy converter'	785. Uysal: 'Rapid assessment of coastal flooding vulnerability of heritage sites: optimization and limitations'	174. Martín-Llanes: 'Estuary response to extreme river discharge events after dredging operations'	1032. Diaz-Hernandez: 'Development of a decision support system for naval planning and prediction operations: SIAAMETOC project'

12:35 - 12:40	769. Kyaw: 'Numerical simulation of nearshore waves at Myanmar coast: an integrated usage of ERA-5, MIKE 21, and satellite data'	770. Bond: 'Observation and prediction of alongshore transport of cobbles on natural and engineered composite beaches'	217. Coelho: 'Effects of bottom depth and artificial sand nourishments on overtopping'	654. Di Muzio: 'Vulnerability analysis of Lazio Region coasts for an integrated protection plan'	842. Pittori: 'New shore protection works along the roman sandy beaches'	624. Wen: 'Quantifying the efficiency of tidal exchange and salt dispersion in a harbor basin'
12:40 - 12:45	921. Bihs: 'Modeling Wave Conditions at the Ericeira World Surf Reserve using the Non-Hydrostatic Navier-Stokes Solver REEF3D::NHFLOW'	486. Enomoto: 'Development of a Coupled FDM-MPM System for Fluid and Soil Interactions'	464. Roeber: 'Extreme wave run-up on steep rock shores'	676. de Almeida: 'Vulnerability of the Mexican Caribbean beaches'	329. Udo: 'Characteristics of population of visitors to sandy beaches in Japan using mobile spatial statistics'	637. Echeverría: 'Free-surface synthetic schlieren implementation on a wave flume'
12:45 - 12:50	605. Son: 'Prediction of Ocean Wave Heights based on a Convolutional-LSTM'	261. Kim: 'Study of aeolian mass flux estimation in coastal environments using image analysis'	#N/D	954. Türkseven: 'Enhancing coastal flooding resilience in Izmir bay due to sea level rise using soft measures'	1088. Unguendoli: 'CamERa: a webcam network to improve the regional coastal early warning system in Emilia-Romagna (Italy)'	1033. Ranji: 'Study of sedimentation problem at Kiashahr Fishery Port'
12:50 - 12:55	1014. Lorenzoni: 'Non-linear wave propagation over a submerged bar'	952. Nandasena: 'Small-scale experimental evidence on joint-bounded block transport by rapid flows'	#N/D	#N/D	882. Li: 'A new theoretical envelope framework in the Hamiltonian theory of nonlinear deep- and finite-water surface gravity waves'	782. Park: 'A Study on the Damage Inflicted on Small and Medium-Sized Fishery Ports Due to the Increase in Sea Level and Countermeasures for Port Tranquility'
12:55 - 13:00	764. Fotia: 'Wave breaking onset and dissipation in a fully non-linear, staggered grid Boussinesq model'	#N/D	#N/D	#N/D	771. Bagnasco: 'A wave hindcast for the Great Bay area (China) Based on wwmIII wave model'	1087. de Graauw: 'The cradle of port engineering in Ventotene island'
14:00 - 15:30	**7.1 - Vegetation hydrodynamics (2)** **Room A: AULA MAGNA** **Chair: Maria Maza**	**7.2 - Berms and beaches (1)** **Room B: AULA PACIFICUS** **Chair: Tom Baldock**	**7.3 - Vertical breakwaters** **Room C: AULA ATLANTICUS** **Chair: Dimitris Stagonas**	**7.4 - Tsunamis (inundation-hazards)** **Room D: AULA ANTARCTICUS** **Chair: Philip Liu**	**7.5 - Climate change (1)** **Room E: AULA INDIANUS** **Chair: Ana Vila-Concejo**	**7.6 - Aeolian sediment transport** **Room F: AULA MEDITERRANEUM** **Chair: Mary Cialone**
14:00 - 14:15	775. Ostrow: 'Performance-based design for using emergent vegetation to mitigate wave overtopping considering climate change'	293. Itzkin: 'Quantifying the role of offshore bar morphology on runup and dune erosion'	582. Ranaldi: 'Correction of the Shimosako sliding distance analytical solution of a rigid caisson under a triangular impulsive force'	1100. Synolakis: 'Anatomy of strike slip fault tsunami-genesis'	177. Ranasinghe: 'Decadal coastline response to accelerated sea level rise'	165. Strypsteen: 'Investigating the fetch effect on aeolian sediment transport on a sandy beach'
14:15 - 14:30	158. Patricio: 'Prototyping an engineered algae field to attenuate long swells'	332. Kras: 'Global sandy beach areas'	650. Centorami: '2D physical modelling of wave-induced forces and overtopping on vertical caissons with retreated crown wall'	196. Ayca: 'A probabilistic tsunami hazard model for South China Sea'	805. Fuminori: 'Shoreline change projection considering the uncertainty caused by multiple factors under climate change'	407. Laporte-Fauret: 'A new approach accounting for species-specific plant characteristics on sand capture efficiency in an aeolian transport model'
14:30 - 14:45	249. Kelly: 'CFD Modelling of Wave-Mangrove Interaction Via RANS and VARANS Approaches'	335. Grossmann: 'Linking Berm Accretion to onshore Bar Migration and asymmetric Wave Propagation'	741. Zavani: 'Wave forces acting on vertical structures with retreated wall: numerical modelling with OpenFOAM®'	598. Fujimoto: 'Regional characteristics of tsunami amplitudes in Japan with various fault parameters'	793. Álvarez Cuesta: 'Upscaling the shoreline to model erosion-enhanced flooding due to climate change'	497. Wang: 'Discrete element modelling of moisture-limited aeolian sediment transport'
14:45 - 15:00	336. Prüter: 'The impact of damping coefficients on dynamic blade motion of flexible submerged vegetation'	487. Shin: 'Prediction of wave run-up affected by dune scarp: a large-scale two-dimensional movable bed experiment'	837. Imbertie: 'Field measurement of impact pressures on a vertical structure generated by overtopping waves on a shallow foreshore.'	638. Niu: 'Influence of tidal level on tsunami hazard assessment along the coast of Pearl Rvier Estuary'	259. Nakamichi: 'Impact assessments of climate change on beach topography in Tosa Bay, Japan'	573. van IJzendoorn: 'The impact of aeolian sediment transport on dynamic cobble revetment design'
15:00 - 15:15	683. Tsai: 'Wave attenuation due to vegetation using the fully nonlinear Boussinesq model'	661. Aniel-Quiroga: 'Beach recovery acceleration by nature-assisted beach enhancement techniques'	703. Faccini: 'Stability verifications of maritime gravity structures: the italian reference standards'	415. Minami: 'Development of a framework for compound flooding risk assessment due to tsunami and high river flow'	1098. Otiñar: 'Projections of flooding and erosion in coastal zones of Andalucía (Spain) for the XXI Century: a probabilistic approach'	584. Robin: 'Influence of morphology on wind flow and sediment transport patterns on two Aquitaine coastal dunes (SW, France)'
15:15 - 15:30	730. El Rahi: 'SPH modelling of vegetation-induced wave dissipation: implementation and applications'	995. Roelvink: 'Simulating beach and dune evolution due to longshore transport, aeolian transport and dune erosion'	694. Castellino: 'The new offshore Ravenna LNG terminal (IT): comparison between experimental and numerical simulations'	621. Zhao: 'Tsunami hazard dataset in the South China Sea'	344. Romero-Martín: 'Probabilistic shoreline change projections for the catalan coast (Spain): A PCR model application.'	753. de Vries: 'AEOLIS: Modelling aeolian sediment transport processes for predicting dune development and NBS design'

16:15 - 17:30	8.1 - Vegetation hydrodynamics (3) Room A: AULA MAGNA Chair: Pedro Lomonaco	8.2 - Berms and beaches (2) Room B: AULA PACIFICUS Chair: José Jiménez	8.3 - Geotechnics and scour Room C: AULA ATLANTICUS Chair: Mutlu Sumer	8.4 - Tsunamis (landslides) Room D: AULA ANTARCTICUS Chair: Patrick Lynett	8.5 - Wave run-up and overtopping Room E: AULA INDIANUS Chair: Leopoldo Franco	8.6 - Marine litter and pollutants Room F: AULA MEDITERRANEUM Chair: Bjarke Larsen
16:15 - 16:30	204. Stolle: 'Assessing the dynamic resilience of newly established salt marshes to wave-induced stress over time'	115. Li: 'Role of wave-induced oscillatory motions in developpment of sandy-muddy transitional beaches on South China Coasts'	722. Marini: 'Scour onset in pipelines under waves and current: new model application'	685. Tsurudome: 'Sediment model for landslide tsunamis using Smoothed Particle Hydrodynamics'	295. Molines: 'Wave forces on crown walls of mound breakwaters using wave overtopping discharges'	498. Pasquali: 'An analytical approach to preliminary assess the far field evolution of plumes in confined waters'
16:30 - 16:45	978. Dermentzoglou: 'Wave spectrum transformation over a salt marsh under extreme storm conditions'	274. Pan: 'The effects of regular and irregular waves on the evolution of a submerged berm in a low-energy beach'	1022. Yilmaz: 'Numerical modelling of residual liquefaction around submarine pipelines and offshore cables'	182. Abadie: 'Simulation of the energetic processes involved in the generation of waves by high mobility subaerial landslides'	878. Celli: 'Run-up at rubble mound breakwaters with submerged berm: an experimental study'	735. Scotto: 'High-resolution multi-model service of pollutant dispersion in the Mediterranean Sea'
16:45 - 17:00	834. Gijsman: 'Modelling mangrove ecosystem engineering effects for persistent flood risk reduction'	307. Frank-Gilchrist: 'Observations of vortex-induced pressure forces acting on sand grains over ripples'	935. Cruz: 'Analyses of hydrodynamic and typhoon wave loadings for the substructure scour protection design of Panguil Bay Bridge Project'	658. Romano: 'Energy transfer mechanisms of tsunamis generated by subaerial landslides: a numerical study in OpenFOAM®'	602. Altomare: 'Exploring the influence of seafront layout and water level on extreme overtopping events: a study based on focused wave groups'	740. Scovenna: 'Analyzing dispersion in the port of Genova: hydrodynamic and Lagrangian models for mete-oceans scenarios'
17:00 - 17:15	757. Pearson: 'Attenuation and longitudinal mixing in vegetated wave-current flow'	808. Heineke: 'Sandy beach dynamics in atoll environments under oblique low energy waves and sea level rise: a case study in Addu City, the Maldives'	751. Jafari: 'Geotechnical characterization of a modern beach ridge along the Gulf Coast Chenier Plain'	973. Grilli: 'A new modeling framework for probabilistic landslide tsunami hazard analyses'	500. Suzuki: 'Countermeasures against sea level rise using Seawall with Multiple wave Overtopping measures (SMO)'	754. Alsina: 'Forecasting and monitoring marine litter in coastal regions combining numerical modelling and citizen science'
17:15 - 17:30	302. Johnson: 'The impact of dissipation by vegetation on mean water level'	982. Araujo: 'The relative contributions of wave power and sea level to coastal erosion in reef-fronted sandy beaches'	111. O Shea: 'Condition characterisation of coastal infrastructure using experimental modal analysis'	880. Cecioni: 'Probabilistic tsunami hazard analysis from submarine mass failure: a Monte Carlo approach to a case study in Italy'	739. Carneiro-Barros: 'A systematic approach to assess wave overtopping at a regional scale, the Northern Portuguese coast.'	836. Stagnitti: 'A numerical-based approach to predict plastic litter pathways in coastal areas'

WEDNESDAY - September 11th

08:15 - 09:30	9.1 - Vegetation hydrodynamics (4) Room A: AULA MAGNA Chair: Tori Tomiczek	9.2 - Shoreline modelling (3) Room B: AULA PACIFICUS Chair: Andres Payo	9.3 - Rubble mound breakwaters (2) Room C: AULA ATLANTICUS Chair: Jorge Molines	9.4 - Tsunamis (debris) Room D: AULA ANTARCTICUS Chair: Jacob Stolle	9.5 - Climate change (2) Room E: AULA INDIANUS Chair: Tomohiro Suzuki	9.6 - Remote sensing (1) Room F: AULA MEDITERRANEUM Chair: Erwin Bergsma
08:15 - 08:30	477. Peng: 'Laboratory study of wave nonlinearity evolution over coastal flexible vegetation'	215. Traboulsi: 'Lx-St: Integrated shoreline & topo-bathymetric analysis model'	268. Tsujimoto: 'A study on damage processes of a rubble mound breakwater based on advection diffusion equation'	474. Nielsen: 'Sediment transport by dam-break waves relating to wave runup and tsunami'	809. Mäll: 'Assessment of future regional cyclone and extreme wave climate in the baltic sea'	449. Graffin: 'Accuracy of satellite-derived waterline extraction methods on sandy beaches'
08:30 - 08:45	824. Vargas Ortega: 'An assessment of wave attenuation by mangrove root systems'	269. Chen: 'Calibration of shoreline prediction model using Ensemble Kalman filter'	395. Muñoz-Palao: 'Realistic numerical placement of armor layers of mound breakwaters'	412. Chida: 'Comparison of evaluation methods for hydrodynamic forces in debris transport model and assessment of the effect of interactions'	281. Codato: 'Effects of climate change scenarios on the coastal flooding hazard induced by extreme wave conditions in the southern italian coasts'	562. Castelle: 'Satellite-derived shoreline interannual variability along the atlantic coast of europe'
08:45 - 09:00	857. Maza: 'Advances in modeling flow attenuation provided by saltmarshes as a function of their biomass'	666. Jaramillo Cardona: 'Non-stationary parameters on equilibrium-based shoreline evolution models'	572. Leone: 'Integration of CFD modelling and UAV photogrammetry for damage progression assessment of a rubble-mound breakwater'	937. Deschamps: 'Negatively buoyant debris impact under tsunamis-like conditions'	404. Forsythe: 'Using two-eyed seeing to document climate impacts to sea ice in Resolute Bay, Nunavut, Canada.'	568. Cabezas-Rabadán: 'Monitoring a beach nourishment project in Benidorm (E Spain) using remote sensing'
09:00 - 09:15	859. Roldán: 'Implications of decoupled physical process analysis for hybrid solutions'	700. Simmons: 'Hierarchical Bayesian spatio-temporal modelling for conceptual process understanding'	141. Strazzella: 'Prediction of Core Stone Damage through thinned Armor Layer'	514. Liu: 'A preliminary numerical study on tsunami-borne submerged debris motion'	873. Lira Loarca: 'Skill and uncertainties in GCM-RCM wind and wave projections in the Mediterranean Sea'	613. Gomes da Silva: 'Coastal change detection from satellite radar (Sentinel-1)'

09:15 - 09:30	260. Mendoza: 'Experimental and Numerical Approach to the Foilar Behaviour of Seagrasses'	900. Penko: 'A new simple parameter to classify seafloor state'	702. Sánchez Arcilla: 'Numerical modeling of rubble mound breakwaters to support predictive maintenance actions: an example of the Spanish coasts'	963. Lomonaco: 'Physical model experiments on tsunami debris impact and damming forces on slender columns'	515. Mori: 'Relation of global and regional atmospheric-wave climate systems'	957. Burvingt: 'Investigating the use of Pleaides imagery to derive coastal dune topography'
09:45 - 11:00	**10.1 - Infragravity waves Room A: AULA MAGNA Chair: Ap van Dongeren**	**10.2 - Shoreline modelling (4) Room B: AULA PACIFICUS Chair: Ian Turner**	**10.3 - Port design and operability (1) Room C: AULA ATLANTICUS Chair: Piero Ruol**	**10.4 - Tsunamis (evacuation) Room D: AULA ANTARCTICUS Chair: Jesper Damgaard**	**10.5 - Climate resilience and adaptation Room E: AULA INDIANUS Chair: Renata Archetti**	**10.6 - Remote sensing (2) Room F: AULA MEDITERRANEUM Chair: Alessandra Romolo**
09:45 - 10:00	226. Wang: 'Modelling nonlinear short-wave groups and infragravity waves in phase-resolved simulations'	245. Aparicio: 'Experimental investigation of cross-shore beach profile path to equilibrium under rapid wave regime change'	668. Contini - De Girolamo: 'Comparative analysis of alternative layouts for the new deepwater breakwater of Genoa port'	446. Kanemura: 'Tsunami evacuation simulation considering area-specific regulatory evacuation'	489. Jiménez: 'Exploring the viability of accommodation space-based coastal adaptation in developed Mediterranean coasts'	258. Splinter: 'Can we reliably extract Shorelines from Cloud-Contaminated Satellite Images: the Application of SAR-Optical Fusion Method'
10:00 - 10:15	270. Guo: 'Field investigation of infragravity wave response under single-peaked and double-peaked spectral sea states'	596. Appleton: 'A mass conservation model to predict the behaviour of coastal soft-cliffs driven by sea level rise over multi-century timescales.'	669. Pellegrini - Isola: 'The new breakwater of the port of Genova'	567. Kim: 'Field measurements of tsunami evacuation dynamics'	979. Marino: 'Nature-based Solutions for coastal adaptation: a modelling study in the Sicily coast (Italy)'	672. DeVore: 'Evaluating space based remote sensing algorithms for Arctic shoreline detection'
10:15 - 10:30	424. Cienfuegos: 'The generation of rogue waves from surf-zone infragravity motions penetrating a shallow bar-built estuary'	609. D'Anna: 'Reshaping the understanding of beach response to sea-level rise for equilibrium shoreline modelling'	630. Marconi: 'Breakwaters on very soft soils. Design, construction and geotechnical monitoring for Fiumicino new seaport'	277. Sasaki: 'Tsunami evacuation simulation of tourists and local residents by using expected tsunami of Nankai Trough earthquake'	1003. Tschirky: 'Coastal engineering: the frontline of resilience and climate adaptation'	699. Azorakos: 'Uncorrected satellite derived shoreline assimilation in equilibrium shoreline model'
10:30 - 10:45	495. Kalisch: 'A conceptual study of infra-gravity driven cross-shore transport'	731. Romão: 'Cross-shore modelling features: calibration with extensive databases'	558. Lara: 'Multi-hazard flexible climate change adaptation for port infrastructures'	413. Takabatake: 'Comparative analysis of tsunami casualty estimation approaches'	1084. Narayan: 'Quantifying the benefits and costs of wetland restoration projects for storm surge damage reduction'	927. Al Najar: 'Global shoreline forecasting using satellite-derived data and interpretable Machine Learning'
10:45 - 11:00	948. Reniers: 'Modeling infragravity waves with swan'	#N/D	154. Mazas: 'Protecting Valletta's Grand Harbour against adverse wave conditions'	451. Aranguiz: 'Definition of tsunami inundation limits based on probabilistic analysis of tsunami runup and inundation distance'	362. Thelen: 'Community-engaged coastal flood modeling to evaluate sea level rise adaptation strategies'	326. Wu: 'Automatic shoreline extraction from SAR imagery using DeepLabv3+'
11:30 - 13:00	**11.1 - Numerical wave modelling (5) Room A: AULA MAGNA Chair: Roshanka Ranasinghe**	**11.2 - Shoreline modelling (5) Room B: AULA PACIFICUS Chair: Giuseppe Barbaro**	**11.3 - Wave structure interaction (2) Room C: AULA ATLANTICUS Chair: Ioan Nistor**	**11.4 - Typhoons (1) Room D: AULA ANTARCTICUS Chair: Nobuhito Mori**	**11.5 - Artificial reefs Room E: AULA INDIANUS Chair: Annette Grilli**	**11.6 - Coastal monitoring (1) Room F: AULA MEDITERRANEUM Chair: Laura Cagigal**
11:30 - 11:45	143. De Leo: 'Analysis of directional wave systems and crossing seas in the Mediterranean Sea'	311. Gomez-de la Pena: 'Predicting shoreline change with deep learning: case studies from the East and West Coasts of the U.S.'	153. Ruffini: 'Numerical study of the effect of shipping container storage yard layouts on their transport in extreme hydrodynamic events'	286. Amunugama: 'Reproducing tropical cyclones: A novel combined approach of vortex-following with bogussing using WRF'	148. Huang: 'Wave transformation across modular porous artificial reefs'	207. Suzuki: 'Field Observations of Water Content and Microtopography Changes during Tidal Cycles in the Swash Zone'
11:45 - 12:00	170. Hashimoto: 'Development of accurate, reliable and robust estimation method of directional spectrum from field data observed with ultrasonic Doppler-type directional wave meter.'	398. Gadgil: 'Coastal hazard assessment and climate adaptation using hybrid shoreline evolution models for remote communities in Alaska'	149. Barcet: 'Wave impact on on breakwater armor blocks using IBM-DEM CFD coupling'	278. Islam: 'Forecasting multi-hazard scenarios with ensemble tropical cyclone forecasts'	275. Houtzager: 'Stability and wave dissipation of the reef enhancing breakwater: a physical model study'	216. Matsuba: 'Long-term observations of interactions among waves, sand, and gravel using a lidar-camera fusion system'
12:00 - 12:15	465. Akrish: 'Spectral modelling of coastal waves using QuadWave1D'	430. Wang: 'Scaldis-Coast: a numerical model for long-term morphology of the Belgian Coast using the TELEMAC-MASCARET system'	175. Martínez-Estévez: 'Stability of Tetrapod armour units against solitary waves using Smoothed Particle Hydrodynamics (SPH)'	651. Odériz: 'Regions without historical records threatened by tropical cyclones in the future'	361. Larsen: 'Using a submerged artificial reef as coastal protection in a bi-directional wave climate'	233. Bergsma: 'Simultaneous 3D topography and bathymetry estimation from spaceborne video optical imagery'
12:15 - 12:30	490. Dong: 'Tracking and spatiotemporal characteristics analysis of ocean wave systems: a case study of the Southeast Pacific Ocean'	976. Falques: 'Influence of high-angle wave instability on large scale shoreline projections. Llobregat delta case study.'	252. Wu: 'Coastal hazard mitigation via structural shape modification: investigating the influence of curved structural cross-sections on wave forces using SPH modeling'	800. Shimada: 'Effect of bias correction method to future prediction of tropical cyclone properties simulated by global stochastic model'	546. Silva: 'Experimental basin study of wave-driven hydrodynamics over artificial reefs'	272. Banno: 'Tidally-driven beach change: insights from long-term and LiDAR monitorings'

12:30 - 12:45	727. de Ridder: 'Strength and weaknesses of three approaches to fast modelling of the spectral wave action balance'	1018. Ramsden: 'XBeach modelling of a mixed sand and gravel shoreline: East Vancouver Island'	716. Spröer: 'Numerical modelling of European brushwood groynes'	420. Shirai: 'Consideration of a non-hydrostatic atmosphere-ocean coupled model for simulating tropical cyclones'	797. Lowe: 'Reefense: Performance of a modular oyster reef habitat for coastal protection applications'	616. Uphues: 'Field observations and numerical modelling of headland bypassing in a high-energy complex coastal environment'
12:45 - 13:00	778. Sato: 'Modeling wind wave development based on phase-resolving wave model and its application to typhoon Jebi in 2018'	1070. Sulis: 'Breaking wave in soft rock cliff recession in South-West Sardinia, IT'	899. Tang: 'Modelling wave hydrodynamics around porous artificial reef with coupled mesh-based and meshless numerical methods'	578. Yamasaki: 'Impact of data assimilation for typhoon-generated extreme wave based on drifting wave buoy observation'	823. Geldard: 'Porous artificial reefs: the roles of reflection, breaking and drag in wave attenuation'	1041. Baker: 'Daily beach evolution with stereo photogrammetry at an undeveloped barrier island'
THURSDAY - September 12th						
10:00 - 10:45	**12.1 - Laboratory techniques Room A: AULA MAGNA Chair: Dominic Van Der A**	**12.2 - Beach nourishment Room B: AULA PACIFICUS Chair: Leonardo Damiani**	**12.3 - Dredging and reclamation Room C: AULA ATLANTICUS Chair: Coraggio Maglio**	**12.4 - Virtual reality Room D: AULA ANTARCTICUS Chair: Giuseppe Passoni**	**12.5 - Data assimilation and field meas. (1) Room E: AULA INDIANUS Chair: Paolo Sammarco**	**12.6 - Corals Room F: AULA MEDITERRANEUM Chair: Rodolfo Silva**
10:00 - 10:15	478. Aertsens: 'Performance Study of a Low-Pass Filter to Model Energy Dissipation due to Multidirectional Wave Breaking in HOS-NWT'	128. Kobayashi: 'Yearly evolution of a nourished sand beach in Thailand'	725. Pullen: 'Design and use of a novel test apparatus for retention of fine dredged fill'	151. Wang: 'Floating cities for climate change adaptation: exploring motion perception thresholds via immersive virtual reality'	308. Bae: 'Observation of tidal exchange dynamics from surface current measurements using unmanned aircraft systems'	229. Deng: 'Structural and hydrodynamic analysis of the breakage of branching and plate corals'
10:15 - 10:30	799. Bayle: 'Stokes drift and current profiles in the nearshore: laboratory experiment using 3D particle tracking velocity'	139. Kaczkowski: 'Beach nourishment and sediment management framework for Hatteras Island, North Carolina, USA'	732. Kroeders: 'A large perched beach scheme in deep waters'	868. Naito: 'Development of a realistic VR device using photogrammetry and clarification of evacuation behavior'	312. Gazi: 'Spatial patterns of wave signatures in beaches in estuaries and bays (BEBs) of different tidal ranges'	266. Da Silva: 'Modeling the future of coral reefs: An eco-morphodynamic approach'
10:30 - 10:45	987. Addona: 'Wave-induced winds for shoaling waves: a laboratory study'	705. Bojan: 'Intelligent beach nourishment: the future of Southern Baltic coastal protection'	784. Shim: 'Analysis of the Causes of Reclamation Embankment Collapse after Final Closure'	1048. Lynett: 'Immersive simulation of natural hazards for enhanced public awareness and disaster preparedness'	228. Zhang: 'Non-equilibrium wave statistics in coastal area associated with strong variations of water depth and ambient current'	766. Fellowes: 'Assessing climate risks and vulnerability of low-lying coral islands'
11:15 - 12:15	**13.1 - Wave modelling (statistics) Room A: AULA MAGNA Chair: Jinghua Wang**	**13.2 - Eco-morphodynamics Room B: AULA PACIFICUS Chair: Costas Synolakis**	**13.3 - Ship waves Room C: AULA ATLANTICUS Chair: Torsten Schlurmann**	**13.4 - Coastal flooding and storm surge (1) Room D: AULA ANTARCTICUS Chair: Nobuhisa Kobayashi**	**13.5 - Numerical wave modelling (6) Room E: AULA INDIANUS Chair: Yuzhu Li**	**13.6 - Coastal resilience Room F: AULA MEDITERRANEUM Chair: Barbara Zanuttigh**
11:15 - 11:30	552. Moritz: 'Storm cluster identification and impacts for shoreline resilience'	199. Ions: 'Experimental study on the impact of vegetation flexibility on suspended sediment concentration under oscillatory flow'	127. Dempwolff: 'Adaption of estuarine waterway infrastructure to mitigate the effect of long-period ship-induced waves.'	134. Himeno: 'Accuracy verification of a real-time prediction system for wave runup heights'	507. Bukhari: 'Performance evaluation of Subdomain Modeling using three case studies'	203. Maglio: 'Holistic coastal resiliency in the Galveston Bay Area'
11:30 - 11:45	566. Lucio: 'Modeling synthetic wave storms with a realistic shape evolution: Applications to storm-induced coastal impacts'	350. Paul: 'Spatial Effects of artificial Seagrass Patches on Hydro- and Morphodynamics'	271. Melling: 'Ship wave effects in tidal waterways: perspectives from an international workshop'	594. Irish: 'Computational simulation set selection for storm surge surrogate modeling'	636. Pérez-Díaz: 'HyBeat: a hybrid model for surf-zone hydrodynamics'	559. Cristaudo: 'Towards an index of Coastal Resilience: a metric to support adaptation planning in a changing climate'
11:45 - 12:00	698. Fuhrman: 'Probability density functions and their positive tails to any order in nonlinearity for the surface elevation in irregular seas'	374. Sierra: 'Assessment of coastal protection provided by seagrass beach cast deposits: Laboratory experiments'	480. Tajima: 'Ship waves generated by a cuise ship: Field observation and numerical representation using Green's functions'	1002. McCune: 'Quantification of chronic coastal flooding using machine learning'	1008. Harris: '3D depth-limited breaking waves over variable bathymetry in fully non-linear potential flow'	303. Shawler: 'Comparing below-ground properties of natural and restored coastal dunes along the northeast Florida (USA) coast'
12:00 - 12:15	833. Solari: 'Multivariate assimilation method for wave dynamical downscaling'	533. Caillibotte: 'Long-term eco-morphology modelling for assessing risk reduction by large-scale restoration of seagrass in Arcachon Bay (France).'	883. Soydan: 'Numerical modelling of primary ship waves in shallow coastal areas using CFD'	479. Zozimo: 'Development of an efficient Early Warning System for wave-induced flooding'	300. Benoit: 'Fully nonlinear simulation of flow kinematics beneath regular and irregular waves propagating over submerged sills'	1068. Stratigaki: 'Dunefront project: demonstration of dune-dike hybrid nature-based solutions'

12:15 - 13:00	P3.1 - Hydro-morphodynamics Room A: AULA MAGNA Chair: Daniele Celli	P3.2 - Shore protection Room B: AULA PACIFICUS Chair: Francesco De Leo	P3.3 - Wave structure interaction Room C: AULA ATLANTICUS Chair: Myrta Castellino	P3.4 - Typhoons and surges Room D: AULA ANTARCTICUS Chair: Maurizio D'Anna	P3.5 - Eco-engineering Room E: AULA INDIANUS Chair: Chiara Favaretto	P3.6 - Scour and mudflats saltmarhes Room F: AULA MEDITERRANEUM Chair: Siddharth Narayan
12:15 - 12:20	1039. Buckmann: 'Characteristic hydraulic times of water age and renewal rates in the lower Amazon'	944. Zannella: 'Sea defence by gravel nourishment and submerged breakwaters: a case study'	463. Ben Belkacem: 'A comprehensive hydrodynamic analysis of water wave interaction with submerged permeable breakwaters: numerical and experimental study.'	958. Youn: 'The spatial distribution of the tropical cyclone pressure using machine learning technique'	262. Gutiérrez Martínez: 'Biological performance of an eco-engineered armoring unit, the Coastalock'	639. Sui: 'Scour induced span shoulder migration around submarine pipeline with wave and current loading'
12:20 - 12:25	846. Karakütük: 'Water circulation and sediment transport modeling in Fethiye bay for dredging operations and pollution control'	434. Mehrtens: 'An experimental benchmarking study on hybrid coastal dune reinforcement variants'	186. Hu: 'Experimental study of the breaking wave impact on rigid and elastic plates'	776. Takeda: 'Basic study on a stochastic tropical cyclone rainfall model around Japan'	876. Dabees: 'Design and management of natural and nature based features, case studies in Southwest Florida, USA'	863. Schönhofer: 'Simple scour assessment for semi-closed ports in the south Baltic Sea'
12:25 - 12:30	470. Lafosse: 'Hydromorphological dynamics of Canadian Arctic deltas : an hydrological model of the Coppermine delta.'	1009. Pinho: 'Computational simulation of erosion at Copacabana beach – RJ - Brazil, under The influence of storm waves: coastal protection strategies'	917. Liu: 'Wave-transmission of very large and fixed bottom-detached breakwaters in a numerical wave flume'	867. Tay: 'Low latitude typhoon induced storm tide in Singapore: A Monte Carlo approach for storm tide modelling'	548. Agardy: 'Build for nature, not only with nature, to engineer coastal ecosystem recovery'	389. Brocca: 'Design and layout optimization of rock-filled matress solution for scour prevention by means of sand bed deformation testing under multiple propeller jet induced flows'
12:30 - 12:35	886. Parlak: 'Hydrodynamics and sediment fluxes at an inner shelf with shoreface connected sand ridges'	301. Ferreira: 'Modelling of Nearshore Nourishments in the Medium-Term'	496. Ripoll: 'Hydraulic performance of homogeneous low-crested structures for beach protection in coral reef areas'	444. Iwamoto: 'Influence of typhoon moving speed on maximum storm surge height in a bay facing the open ocean'	693. Gomez: 'Challenges of implementing Nature-based Solutions in the Mexican Caribbean'	358. Pedroncini: 'Erosion from displacement waves along Malamocco Marghera channel'
12:35 - 12:40	583. Altas: 'About the significance of the transport boundary conditions in modelling Bosphorus exchange flow'	250. Reyns: 'Global inventory of beaches backed by artificial structures'	213. Stagonas: 'Mapping of wave impact induced pressures on a vertical wall'	557. Xie: 'Trends in Storm Surge Extremes along the Southeastern Coast of China'	1027. Mondon: 'The Ability of Coastal Ecosystems to Reduce Storm Surge and Coastal Erosion in the Context of Climate Change'	231. Muller: 'Quantifiying wave-induced pressures on a saltmarsh cliff: an experimental study'
12:40 - 12:45	1040. Jayaratne: 'Experimental and Numerical Study of the Hydro-Sedimentary Dynamics on the Land Side of a Coastal Dike'	202. Nelson: 'Coastal levee consequence assessment to support risk-informed decision making in design'	299. Conte: 'Stability analysis of a caisson under breaking wave by means of a gradual approach'	589. Valdez: 'Simulating potential storm surges from super typhoon Doksuri (2023) in northern Philippines'	988. Grilli: 'Power and limitations of Nature-Based solutions to enhance coastal resilience'	388. Dissanayake: 'Modelling the effect of salt marshes for coastal protection'
12:45 - 12:50	251. Li: 'Modeling of current and sediment plumes around a coastal inlet'	796. Nickson: 'Beach nourishment to reduce the breaching risk of a sand spit: A case study from Carnarvon, Western Australia.'	#N/D	1077. Yang: 'Bias correction method for simulated storm surge height considering coastline characteristic'	298. Benoit: 'Nature-based infrastructure modelling in an intertidal environment exposed to storm surges'	525. Zhao: 'Typhoon-induced effects on wave evolution across coastal wetlands'
12:50 - 12:55	448. Christensen: 'Coastal overwash - The impacts of a 100-year storm flood event in south-eastern Denmark'	#N/D	#N/D	787. Tsubono: 'Model validation using a diagram comparing ovserved and simulated tides and tidal currents in TOKYO bay'	946. Zhang: 'The impacts of a mangrove patch on wave pressures on the sea dike'	#N/D
12:55 - 13:00	677. Zhou: 'Response of hydrodynamics and water quality to large-scale reclamation in Sanmen Bay, China'	#N/D	#N/D	#N/D	738. Iuppa: 'Numerical simulation of the plastic debris transport in nearshore zone'	#N/D

14:00 - 15:30	**14.1 - Data assimilation and field meas. (2)** **Room A: AULA MAGNA** **Chair: Alison Raby**	**14.2 - Sediment transport (3)** **Room B: AULA PACIFICUS** **Chair: Peter Nielsen**	**14.3 - Wave overtopping (1)** **Room C: AULA ATLANTICUS** **Chair: Tim Pullen**	**14.4 - Coastal flooding and storm surge (2)** **Room D: AULA ANTARCTICUS** **Chair: Patricio Catalan**	**14.5 - Harbours and Waterways** **Room E: AULA INDIANUS** **Chair: Francisco Taveira Pinto**	**14.6 - Nature-based solutions (management)** **Room F: AULA MEDITERRANEUM** **Chair: Jens Figlus**
14:00 - 14:15	144. Fu: 'Properties of extreme wave groups based on measured wave data'	264. Tsujio: 'Mechanisms of sediment transport and seawater exchange in the Karavasta lagoon, Albania'	922. Habib: 'Effectiveness of kernel-based and Decision Tree (DT) - based machine learning algorithms in predicting overtopping rates at sloping structures'	382. Ciavaldini: 'Tolosa-SW: A new finite-volume model for predicting storm surges'	522. Cruickshank: 'Passing vessel and tidal flow impacts on submerged tunnel elements during installation'	423. Dunlop: 'A model approach to nature-based solutions design in estuaries'
14:15 - 14:30	235. Spiliotopoulos: 'A Field Experiment on Gravity Waves: Effects of the Wave Steepness and effective Water Depth on the Wave Profile and Breaking Limit'	292. Verwaest: 'MOZES : Research on the morphological interaction between the sea bottom and the Belgian coastline'	940. Pepi: 'Time-Dependent analysis of wave overtopping: distribution of individual volumes in variable water levels'	419. Fukui: 'Subgrid-scale modeling of storm surge inundation in coastal urban area considering volume of buildings'	542. Vinke: 'Climate Resilient Inland Waterways: a novel systemic approach'	475. Owensby: 'An overview of the development, expansion, and application of the Engineering With Nature Modeling Toolkit'
14:30 - 14:45	280. Lin: 'A field observed phenomenon of wave peak frequency down-shifting in a reef area'	343. Männikus: 'Solving a 40-year old coastal sediment transport problem using integrated field and modelling apporach'	1034. Di Risio: 'A simple method to measure instantaneous wave overtopping'	319. Abalia: 'Development and validation of a modelling chain to quantify coastal flooding exposure at an engineered beach'	1083. Asborno: 'Shoaling Forecasting at the Mouth of the Mississippi River with Machine Learning Models'	760. Wengrove: 'Coastal engineering with nature at the interface between best available science, engineering, management, and community need'
14:45 - 15:00	523. Sáez Rosales: 'A generalized tool for wave-by-wave estimation of nearshore wave breaking dissipation from optical imagery'	539. Flikweert: 'Bacton Sandscaping: quantified Benefits 4 Years after Construction'	129. Aguilera Chaves: 'Modelling of wave overtopping events at breakwaters with a crest element'	124. Cialone: 'Modeling time-varying surge barriers: the impact of closure time and duration on flood protection'	734. Fan: 'Resonance among waves, current, and rippled bottoms in coastal zones'	815. Archetti: 'Optimal layout of limestone substrates for oyster beds as nature-based solutions for coastal management'
15:00 - 15:15	795. Nardone: 'Implementing innovative sea state monitoring system based on microseism'	659. Shimozono: 'In-situ observation of hydro-sediment dynamics on steeply sloping seabed in deep water.'	743. Senturk: 'CFD modeling of the effect of antifer units used in the armor layer of mound breakwaters on wave overtopping'	597. De Girolamo: 'Applying probabilistic databases to define inputs for inundation numerical simulations: The Messina Strait case'	340. Islek: 'Future changes in the Black Sea wave power under two climate scenarios'	875. Gostic: 'Monitoring a natural cobble berm to inform nature-based solutions for high-energy coasts'
15:15 - 15:30	870. Adame: 'Validation of a spectral wave model using wave height measurements from satellite missions'	822. van der Lugt: 'Observations and modeling of cross-shore sediment transport on a low energy, fetch-limited beach'	#N/D	192. Leijnse: 'Large-scale infragravity wave-resolving flood hazard modelling'	246. Pinto: 'Monitoring boundaries to evaluate beach and shoreface nourishment effectiveness and performance'	1029. Wilson: 'New Guidance and Decision-Support Tools for Nature-Based Solutions'
16:15 - 17:30	**15.1 - Wave modelling (theory)** **Room A: AULA MAGNA** **Chair: Paolo Blondeaux**	**15.2 - Sediment transport (4)** **Room B: AULA PACIFICUS** **Chair: Alec Torres-Freyermuth**	**15.3 - Rubble mound breakwaters (3)** **Room C: AULA ATLANTICUS** **Chair: Roberto Tomasicchio**	**15.4 - Coastal hazards (1)** **Room D: AULA ANTARCTICUS** **Chair: Sebastian Solari**	**15.5 - Climate change and risks (2)** **Room E: AULA INDIANUS** **Chair: Mariano Buccino**	**15.6 - Coastal monitoring (2)** **Room F: AULA MEDITERRANEUM** **Chair: Marcello Di Risio**
16:15 - 16:30	145. Liu: 'Theory of fifth-order Stokes waves in a linear shear current'	798. Baykal: 'Scour around vertical wall breakwaters under random and solitary waves'	123. Jimenez-Martinez: 'Revetment damage progression analysis considering reduction in sea ice cover due to climate change, Kivalina, Alaska'	749. Gonzalez: 'Coastal Hazards System: A multi-component framework aiding coastal resiliency'	635. Dalinghaus: 'Time-evolution of coastal flooding uncertainties using global sensitivity analysis: Insights from Orewa beach, New Zealand'	390. McGill: 'Methods and applications for water level extraction from imagery'
16:30 - 16:45	146. Vittori: 'Steady streaming generated by a monochromatic surface wave close to a rough bottom'	804. de Wit: 'Scour Protection Calculations for an Offshore Energy Island using detailed Wave and CFD Flow Modeling'	166. Mares-Nasarre: 'Probabilistic modelling of the armor damage evolution of rock-armored groynes under shipwave attack based on field data'	592. Laino: 'Multi-hazard risk assessment of European Coastal City Living Labs'	713. Ozyurt Tarakcioglu: 'National assessment of sea level rise vulnerability of archeological heritage sites of Turkiye'	686. Wong: 'Deployment of UAVs with spectral sensors for real-time coastal monitoring'
16:45 - 17:00	219. Lyu: 'Evolution of Nonlinear Waves of Multiple Systems in Two-Dimensional Directional Crossing Seas on a Slope'	947. Balasubramaniam: 'Comparative assessment of plunging jet scour depth predictive formulae under variable soil moisture conditions'	191. Díaz-Carrasco: 'New simple and explicit formula for wave reflection on mound breakwaters using Neural Network modeling'	680. Ruggiero: 'Stochastic coastal hazards modeling'	936. Kroon: 'Reducing inundation risk at barrier islands under a rising sea level'	841. Gurruchaga: 'Uruguayan nationwide beach remote monitoring initiative'
17:00 - 17:15	288. Vasarmidis: 'Improved higher-order boundary conditions for wave generation in the non-hydrostatic model SWASH'	953. Hanke: 'Comparison between particle-based and semi-empirical Sediment Transport Simulations of Scour around a Vertical Cylinder'	334. Scaravaglione: 'On the uncertainties in rock-armoured breakwaters stability'	428. Azouri: 'Advances in phase-resolved modeling for mapping and forecasting of wave-driven coastal phenomena'	950. Esparza: 'Extreme sea-level projections based on local waves and foreshore slope'	1064. Lupino: 'Use of forecast waves for sediment transport short term prediction during the operational phases of a beach nourishment - Example of Emilia Romagnaproject 2022'

17:15 - 17:30	1058. Lee: 'Generation of nonlinear random waves with bottom wave maker using extended Boussinesq equations: efficient method to absorb reflected wave energy'	1042. Kirca: 'Scour around and sinking of subsea structures exposed to current and waves'	840. Musumeci: 'Spatial assessment of the failure probability of rubble-mound breakwaters'	1017. Kaji: 'Climate change impacts on coastal hazards in Newfoundland and Labrador, Canada'	816. Fuentes: 'Urban-integrated strategies for Climate Change adaptation at coastal communities'	345. Lo Re: 'Investigation of erosion management alternatives by area-based analysis method'
FRIDAY - September 13th						
08:15 - 09:30	**16.1 - Data assimilation and field meas. (3) Room A: AULA MAGNA Chair: Stefan Schimmels**	**16.2 - Estuarine morphodynamics Room B: AULA PACIFICUS Chair: Fengyan Shi**	**16.3 - Wave overtopping (2) Room C: AULA ATLANTICUS Chair: Peter Troch**	**16.4 - Typhoons (2) Room D: AULA ANTARCTICUS Chair: Rodrigo Cienfuegos**	**16.5 - Tsunamis structures interaction (2) Room E: AULA INDIANUS Chair: Patricio Winckler**	**16.6 - Wave energy converters Room F: AULA MEDITERRANEUM Chair: Diego Vicinanza**
08:15 - 08:30	125. Oosterlo: 'Wave, wave run-up and overtopping measurements in the field using laser scanners'	337. Gönnert: 'Development of freshwater mudflat zones and tidal creeks following an initial design supported by morphodynamic modelling'	612. Schürenkamp: 'Hydraulic performance and stability of combined recurved walls'	681. Araki: 'Impact of atmospheric spatial-temporal resolution on storm surge simulation and related damage change - case study on 2018 typhoon Jebi -'	119. Hiraishi: 'Analysis of impulsive tsunami force acting on tidal barrier behind coastal dune'	222. Chávez: 'Ocean energy harvesting in Mexico: lessons learned'
08:30 - 08:45	210. Almar: 'Wave characteristics from sparse data with implications to derive coastal bathymetry from remote sensing'	346. Takewaka: 'Flood and coastal sediment supply of the River Tenryu, Japan, analyzed by X-band radar observation and XBeach computation'	931. Di Leo: 'Vertical seawalls protected by rubble mound structures: prediction tools and physical insight'	872. Jeong: 'Effects of wind waves on coastal currents: A case study of Typhoon Jebi, 2018'	206. Toriyama: 'Study on parameters to evaluate impact probability of tsunami ship debris on seawalls'	724. Gazaloglu: 'Hydrodynamic efficiency of U-OWC wec through geometric investigation: A design formulation approach'
08:45 - 09:00	290. Fritsch: 'On a methodology to measure wave boundary layer parameters under in situ surface waves.'	715. Aragón: 'Climate change effects in estuarine morphodynamics: efficient long-term modeling'	711. Xu: 'Assessing the performance of eco-retrofitted seawalls in mitigating wave overtopping discharge – a numerical modelling study'	243. Iida: 'Impact of ocean cooling and wave effects on typhoon modeling for 2018 Typhoon Jebi'	257. Yamamoto: 'A numerical study of armour block performance against tsunami flows by dualsphysics'	505. Malara: 'Variable bathymetry effects on the response of U-OWC wave energy converters'
09:00 - 09:15	400. Vargas-Magana: 'Particle acceleration as a diagnostic for wave breaking in the surf zone'	720. Bamunawala: 'A holistic model to simulate long-term evolution of catchment-estuary-coastal systems'	914. Van Doorslaer: 'Physical modelling for the princess elisabeth island, overtopping design for a caisson with a double wave wall geometry'	1023. Arikawa: 'Simulation experiment of tropical cyclone Mocha(2023) and associated storm surge using different physics options of WRF'	1051. Reis: 'SPH modelling of horizontal and vertical tsunami effects on decks'	684. Cohen: 'Wave basin modelling of wave energy converter arrays to explore impacts on nearshore processes and shoreline realignment'
09:15 - 09:30	862. Stresser: 'Mapping waves, currents and bathymetry with shore-based coherent marine radar: Nearshore validation'	896. Alonso: 'Comprehensive study of a coastal inlet evolution and its driving factors'	1091. Bijl: 'Stability assessment of Rock Bags and Rock Armour to stabilize cables arriving at an offshore Energy Island'	#N/D	155. Li: 'The role of seepage response in tsunami scour'	818. Romolo: 'The new installation of the U-oscillating water column breakwater in the port of Salerno for the wave energy exploitation'
09:45 - 10:45	**17.1 - Wave modelling (groundwater) Room A: AULA MAGNA Chair: Michele Mossa**	**17.2 - Saltmarsh Room B: AULA PACIFICUS Chair: Ali Abdolali**	**17.3 - Floating breakwaters Room C: AULA ATLANTICUS Chair: Lorenzo Cappietti**	**17.4 - Coastal flooding and storm surge (3) Room D: AULA ANTARCTICUS Chair: Rafael Aranguiz**	**17.5 - Wave structure interaction (3) Room E: AULA INDIANUS Chair: Corrado Altomare**	**17.6 - Experimental wave modelling (2) Room F: AULA MEDITERRANEUM Chair: Sandro Longo**
09:45 - 10:00	238. Hendrickx: 'Engineering guidelines for nature-based solutions to mitigate salt intrusion'	405. Bagg: 'Overtopping hazard mitigation: experimental investigation of live saltmarsh grass exposed to bore flow'	408. Baldock: 'Measurement and CFD modelling of a floating parabolic beach shaped breakwater'	864. Cotrim: 'European assessment of coastal flood hazards'	291. Dimakopoulos: 'A new formula for pressure transmission inside rubble mound breakwaters protecting land reclamations'	409. Chu: 'Experimental study of internal solitary wave interaction with surface solitary waves'
10:00 - 10:15	432. Jimenez Tobio: 'Hybrid approaches for predicting salt wedge intrusion in estuarine environments'	667. Markov: 'Modeling cold climate saltmarsh evolution: Tools for restoration & prediction'	819. Martinelli: 'Floating Breakwaters combined with Sheet Piles. An application for the defense of San Marco Square (Venice, IT)'	385. Hallin: 'ROAD-RAT - Regional risk assessment tool for flooding, erosion, and overtopping of coastal roads'	176. Baker: 'Physical modelling studies for the Scarborough Waterfront Project'	786. Wu: 'Development of a wave roller area measurement method in the laboratory surf zone'
10:15 - 10:30	547. Maple: 'Modeling beach groundwater superelevation due to wave runup and overtopping at a reflective beach'	737. Antonini: 'Salt marsh and extreme conditions: a large scale experiment'	942. Russo: 'Innovative draft-varying floating breakwater-wave energy converter: an experimental study'	966. van Ormondt: 'Applying a compound flood model on ocean basin scales'	383. Schlurmann: 'From GWK to GWK+: Extension of the Large Wave Flume to a unique experimental facility for Offshore and Coastal Engineering Research'	912. Porcile: 'Impact of sand dune morphology on macro-tidal current dynamics: insights from PIV measurements'

10:30 - 10:45	897. Zhao: 'Experimental study of the wave-induced groundwater dynamics under different periods'	915. van Veelen: 'The conditions for sediment accretion on salt marshes'	1094. Armenio: 'Numerical Analysis of Performance of Wavebreakers Exposed to Regular Waves in Static and Floating Configuration'	1065. Zanuttigh: 'Modelling the May 2023 floods along the Emilia Romagna littoral with the COASTS Decision Support system'	718. Demir: 'Effects of different armour units and placement methods on wave loads acting on crown walls'	1062. Chiapponi: 'Laboratory study of swell propagating in a windy domain'
11:15 - 12:30	**18.1 - Data assimilation and field meas. (4) Room A: AULA MAGNA Chair: Michel Benoit**	**18.2 - Morphological patterns Room B: AULA PACIFICUS Chair: Giovanna Vittori**	**18.3 - Wave overtopping (3) Room C: AULA ATLANTICUS Chair: Vera van Bergeijk**	**18.4 - Coastal flooding and storm surge (4) Room D: AULA ANTARCTICUS Chair: Tomohiro Yasuda**	**18.5 - Rubble mound breakwaters (4) Room E: AULA INDIANUS Chair: Paolo De Girolamo**	**18.6 - Sediment transport (5) Room F: AULA MEDITERRANEUM Chair: Jack Puleo**
11:15 - 11:30	200. Dooley: 'Impacts of incident wave conditions and nearshore bathymetry on surfzone vorticity'	576. Glover: 'Using distributed fiber-optic sensing to record sandbar migration under calm and energetic conditions'	132. van Gent: 'Wind effects on wave overtopping at dikes with crest elements'	642. Leone: 'Assessing coastal hazards with SLR and predicting long-term shoreline changes along beach barrier systems of the New England coastline, USA'	138. Eskafi: 'Icelandic-type berm breakwater: coastal structure with a low construction carbon footprint'	108. Damgaard: 'The elusiveness of sediment transport predictions'
11:30 - 11:45	353. Bondehagen: 'Wave-driven vortex patterns at an open beach'	287. Damveld: 'Form roughness induced by tidal sand waves: A modelling study'	163. Vanneste: 'Wave overtopping over a sea dike with stilling wave basin and shallow foreshore'	845. Corvaro: 'Extreme storm surge and wave height in the Adriatic Sea'	745. Sevindik: 'Numerical and experimental investigation of wave loads on mound breakwater heads'	364. Bischoff: 'Sediment distribution in an unmaintained coastal brushwood groyne field'
11:45 - 12:00	538. Mccormack: 'Predicting instantaneous subsurface velocity using surface velocity'	376. Durand: 'Modelling marine dunes interacting with a wind farm offshore Dunkirk'	401. van der Meer: 'Improving transitions at grass covered dike slopes using the Wave Overtopping Simulator'	360. Dastgheib: 'Risk attribution study for flooding in coastal urban area, case of Pekalongan, central java, Indonesia'	354. Medina: 'Repair and rehabilitation of cube-armored mound breakwaters'	406. Farhadzadeh: 'Recession by random waves: Insights from physical modeling of consolidated sandy bluff'
12:00 - 12:15	1015. Shimada: 'Proposal of image processing for rip current verification'	825. Doré: 'Prediction of equilibrium subaqueous dune characteristics using genetic algorithms'	748. Troch: 'Wave overtopping performance analysis of the research dike Raversijde, Belgium'	673. Makris: 'Coastal Flooding due to Episodic Sea Level Elevation and Impact Assessment of inundated Urban Areas in Miami (South Florida, USA)'	396. Smith: 'Evaluation of repair methods for damaged rock armoured slopes'	901. Oliveira: 'Application of a dredged trench to influence shoreline longshore sediment transport'
12:15 - 12:30	994. Herbst: 'High-resolution ADCP measurements of turbulent flows near a large stream groyne'	860. Overes: 'Predicting 3D interactions between offshore activities and sand wave recovery'	664. Franco: 'Wave overtopping at vertical walls with large freeboards and variable water depth'	792. Toimil: 'Assessing the benefits of beaches in flood risk reduction'	519. Brown: 'Raising the alarm: how do you ensure the seawall that is built is the one that was tested?'	1078. Neshamar: 'Transport of alien particles in sand beds mobilised by waves'
12:30 - 13:15	**P4.1 - Wave mechanics Room A: AULA MAGNA Chair: Luca Chiapponi**	**P4.2 - Beaches and dunes Room B: AULA PACIFICUS Chair: Caroline Hallin**	**P4.3 - Nature based solutions Room C: AULA ATLANTICUS Chair: Sara Mizar Formentin**	**P4.4 - Tsunami and extreme events Room D: AULA ANTARCTICUS Chair: Gioele Ruffini**	**P4.5 - Numerical wave modelling Room E: AULA INDIANUS Chair: Peter Lo**	**#N/D**
12:30 - 12:35	197. Sous: 'Wave friction over rough seabeds'	114. Zhang: 'A numerical model to simulate cross-shore beach profile evolution'	941. Beckman: 'Understanding the wave attenuation capacity of a vegetated floating canopy'	349. Ishiki: 'Numerical modelling of fluid-structure interaction involving tsunami bore and debris impact'	161. Draycott: 'Smoothed particle hydrodynamics modelling of waves, sheared currents and loads'	#N/D
12:35 - 12:40	387. Lei: 'Blade dynamics in orthogonal wave-current conditions'	608. Karambas: 'Modelling 2DH coastal morphodynamics including the sediment supply from rivers and natural streams'	403. Cox: 'Breakwater overtopping and transmission characteristics associated with living shoreline functional atributes'	468. Kimpton: 'The large-scale application of a new rapid tsunami inundation model to New Zealand's coast'	363. Chen: 'Numerical investigation of wave attenuation in mangrove forests using the immersed boundary method'	#N/D
12:40 - 12:45	1012. Baysal: 'Laminar-to-turbulent transition in oscillatory wave boundary layers'	417. Yoo: 'A Study on the Long-term Shoreline Changes in East Coast of Korea using Satellite Images'	601. Koo: 'Experimental and numerical study on wave reduction by two permeable submerged breakwaters'	618. Chen: 'Numerical modelling of tsunami propagation in idealised converging channels'	678. Zhang: 'A self-developed algorithm based on the Moving Particle Semi-implicit method for investigating dam break'	#N/D
12:45 - 12:50	255. Kuznetsov: 'Nonlinear aspects obtaining of orbital velocities from waves records'	447. Hou: 'Tidal and sediment dynamics response to tidal flat reclamation in the Jiaojiang Estuary, China'	852. Whitton: 'Parameterisation of coral stressors impacting reef eco-morphodynamics'	643. Cao: 'Long-term trends of extreme waves based on 55 years of observation data from the coastal sea area of China'	692. Abdollahpour: 'Assessing the Limitations and Qualification Criteria of CFD-Based Numerical Wave Tanks using High-Performance Computing (HPC)'	#N/D

12:50 - 12:55	254. Saprykina: 'Cascade frequency downshifting in the wave spectra in the coastal zone'	955. Miller: 'Dune performance in 2050 and 2100 subjected to extreme and nuisance erosion events'	889. Sirigu: 'Life on water: a comparative analysis of environmental impacts between floating solutions and dredging'	820. Garcia: 'Extreme value analysis of coastal inundation for the design of coastal protection in Camarines Sur, Philippines'	970. Carvalho: 'Expanding MIKE MS hybrid wave downscaling: overcoming stationary assumptions for climate studies'	#N/D
12:55 - 13:00	341. Mossa: 'Plunging waves in the inner surf zone and Burgers-like turbulence'	435. Nishida: 'Comparing Beach morphological changes between Gravel and Sandy coasts'	184. Różyński: 'Preliminary reflections of 1st biodiversity restoration project in Poland'	555. Molteni Pérez: 'Analysis historical extreme coastal water level, and contributors along South American Pacific coast'	1076. Somphong: 'The study of the effect of vegetation on storm wave based on numerical modeling approach: Pabuk Storm Surge case study'	#N/D
13:00 - 13:05	943. Pezzutto: 'Expected wave energy flux of predicted sea states'	967. Heminway: 'Decadal scale predictions of coastal dune evolution at Long Beach, WA, USA'	171. Nakayama: 'Patch size effect on sedimentation by submerged aquatic vegetation'	992. Mohammadzadeh: 'Analysis of Extreme Waves in the Gulf of Oman'	919. Hwang: 'A GPU-accelerated numerical model for coastal flooding'	#N/D
13:05 - 13:10	647. Xie: 'Nonlinear wave group interaction in the long time wave evolution process'	554. Moritz: 'Anatomy of morphology change within a confined tidal inlet'	551. King: 'Working with nature along open coasts - past, present and future'	721. Wopereis: 'A spatial analysis of the dependence between wave heights and water levels using copulas in the Dutch delta'	649. Saisset: 'Quantifying the Hydrodynamic Resilience of a Simplified Atoll System'	#N/D
13:10 - 13:15	#N/D	#N/D	#N/D	#N/D	#N/D	#N/D
14:15 - 15:30	**19.1 - Data assimilation and field meas. (5) Room A: AULA MAGNA Chair: Ryan Lowe**	**19.2 - Munitions and debris Room B: AULA PACIFICUS Chair: Niels Goseberg**	**19.3 - Wave overtopping (4) Room C: AULA ATLANTICUS Chair: Claudia Cecioni**	**19.4 - Coastal hazards (2) Room D: AULA ANTARCTICUS Chair: Paula Camus**	**19.5 - Port design and operability (1) Room E: AULA INDIANUS Chair: Felice Arena**	**19.6 - Typhoons (3) Room F: AULA MEDITERRANEUM Chair: Ignacio Sepulveda**
14:15 - 14:30	476. Mansur: 'Field observation and numerical modeling of swash transformation in the presence of an artificial vegetation patch'	696. Saputra: 'Sediment transport simulation applicable to a wide concentration range'	248. Formentin: 'Calculating wave overtopping volumes through image clustering analysis'	913. Hodgens: 'Multivariate coastal hazard responses with stochastic simulation'	644. Guler: 'A case study on the major damage at a port: Damage assessment and upgrade of the breakwater'	984. Son: 'Examining the role of tropical cyclone rainfall motion in coastal compound flooding'
14:30 - 14:45	599. Chen: 'Video-based Flood and Swash Mapping – an Application of Deep Learning to Nearshore Research'	136. Puleo: 'Mobility and burial of variable density munitions in the surf zone'	304. Coulaud: 'Numerical modeling of wave overtopping of coastal breakwaters for bimodal sea states with depth-averaged models'	590. Athanasiou: 'A global database of geophysical, hydrodynamic and socioeconomic indicators at the coast'	179. Samaras: 'Harbour Layout Design in a Changing Climate based on Advanced Numerical Models and Machine Learning: A case study'	607. Shibayama: 'Coastal flooding processes caused by slow-moving tropical cyclones'
14:45 - 15:00	653. Geindre: 'Bottom roughness definition in coral reef context (La Reunion island, France)'	190. Baldoni: 'Munitions mobility and burial in a micro-tidal estuary'	482. Yasuda: 'Effect of water level change on wave overtopping volume based on experiment simultaneous occurrence of storm surges and waves'	506. Bender: 'Development and testing of a modern cloud-based workflow for coastal hazard modeling'	891. Papadimitriou: 'Modelling wave reflection by implementing Artificial Neural Networks in port areas'	909. van der Spek: 'Improving hurricane-induced compound flood risk assessment in Long Island, Bahamas: the role of local Digital Terrain Models'
15:00 - 15:15	759. Martins: 'Nearshore depth-inversion from lidar scanners: current progress, limitations and future perspectives'	441. Kaida: 'Numerical simulation of the debris behavior affected by wave breaking'	747. Korkmaz: 'Effects of different units and placement methods on wave overtopping on mound breakwaters'	905. Garcia-Moreno: 'StormSim: a modular approach to probabilistic coastal hazards analysis'	455. Koppe: 'German seaports and climate change - Recommendations for climate change adaptation measures'	244. van Dongeren: 'Forecasting hurricane impacts on US coasts'
15:15 - 15:30	1021. Seemann: 'Comprehensive Measurements and analysis of ship waves in the Elbe estuary, Germany'	563. Murphy: 'Buoyant driftwood dynamics in the surf zone'	#N/D	926. Stehno: 'Multivariate coastal hazard response stochastic simulation'	#N/D	#N/D

16:15 - 17:00	**20.1 - Experimental wave modelling (3) Room A: AULA MAGNA Chair: Alessandro Antonini**	**#N/D**	**20.3 - Wave structure interaction (4) Room C: AULA ATLANTICUS Chair: Alessandro Romano**	**#N/D**	**#N/D**	**#N/D**
16:15 - 16:30	811. Hsu: 'An experimental study of unstable wave group shoaling'	#N/D	265. Kashima: 'Wave-induced impact on monopile-type offshore wind turbine response'	#N/D	#N/D	#N/D
16:30 - 16:45	1038. Bellos: 'Experimental investigation of extreme crest heights over sloping beds'	#N/D	545. Casella: 'Field experiments on wave forces acting on a horizontal cylinder covered by barnacles'	#N/D	#N/D	#N/D
16:45 - 17:00	348. Cusati: 'Analysis and modelling of issues related to wave agitation caused by long-period waves in a touristic marina'	#N/D	708. Kanehira: 'Numerical modelling of extreme wave interactions with a vertical cylinder using a particle-based method'	#N/D	#N/D	#N/D