

COASTAL DYNAMICS 2021



Delft, Netherlands

28 June – 2 July 2021

CONFERENCE PROGRAM

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Conference Overview

Please note that all times are in Central European Summer Time (CEST, UTC+2). You can convert them to your own time zone [here](#).

	Monday 28 June	Tuesday 29 June	Wednesday 30 June	Thursday 1 July	Friday 2 July
Registration	08:30 - 09:30 Registration Short Courses + Pre-Registration Conference	08:30 - 18:00 Conference Registration Information Desk	08:30 - 18:00 Conference Registration Information Desk	08:30 - 18:00 Conference Registration Information Desk	08:30 - 14:00 Information Desk
Morning Programme	09:30 - 11:00 Short Courses	09:30 - 10:00 Conference Opening	08:40 - 10:00 Parallel Session 4	08:40 - 10:00 Parallel Session 8	08:40 - 10:00 Parallel Session 11
	11:00 - 11:30 Coffee Break	10:00 - 10:30 Keynote Dr. Giovanni Coco	10:00 - 10:30 Keynote Dr. Jennifer Irish	09:00 - 10:00 Registration/ Walk-in Sand Motor	10:00 - 10:30 Keynote Dr. Nadia Senechal
	11:30 - 12:30 Short Courses	10:30 - 11:00 Coffee Break & Poster Session 1	10:30 - 11:00 Coffee Break & Poster Session 5	10:00 - 11:00 Sand Motor Opening	10:30 - 11:00 Coffee Break
		11:00 - 12:40 Parallel Session 1	11:00 - 12:40 Parallel Session 5	11:00 - 11:30 Coffee Break & Poster Session 9	11:00 - 12:00 Parallel Session 12
				11:30 - 12:30 Sand Motor Congress (incl. Keynote Annemieke Nijhof)	12:00 - 12:40 Conference Closure Award Ceremony Introduction Coastal Sediments 2023
Lunch Break	12:30 - 13:30 Lunch	12:40 - 13:50 Lunch & Poster Session 2	12:40 - 13:50 Lunch & Poster Session 6	12:30 - 13:50 Lunch & Poster Session 10	12:40 - 14:00 Lunch
Afternoon Programme	13:30 - 15:00 Short Courses	13:50 - 15:10 Parallel Session 2	13:50 - 15:10 Parallel Session 6	13:50 - 15:10 Parallel Session 9	Fieldtrip Sand Motor
	15:00 - 15:30 Coffee Break	15:10 - 15:40 Coffee Break & Poster Session 3	15:10 - 15:40 Coffee Break & Poster Session 7	13:50 - 15:10 SM Parallel Session	14:30 - 15:30 Bus to Sand Motor
	15:30 - 16:30 Short Courses	15:40 - 17:00 Parallel Session 3	15:40 - 17:00 Parallel Session 7	15:10 - 15:40 Coffee Break & Poster Session 11	15:30 - 17:00 Sand Motor Fieldtrip
		17:00 - 18:00 Poster Session 4	17:00 - 18:00 Poster Session 8	15:40 - 17:00 Parallel Session 10	17:00 - 17:15 Walk to Beach Club
				17:00 - 18:00 Poster Session 12	
Evening Programme	16:30 - 18:00 Welcome Reception / Pre-Registration	TBA	19:00 - 22:00 COMEM Flashback Dinner	19:00 - 22:00 Conference Dinner incl. Best Poster Award	17:15 - 20:15 Fieldtrip: Beach BBQ 20:30 Return to Delft by bus

Legend:	
Plenary Session	Sand Motor Session
Posters & breaks	Short Course
Parallel Session	Other

Monday 28 June 2021 (Day 1) – Short courses

On the first day of the conference, four short courses are offered. For details and application: <https://www.coastaldynamics2021.nl/short-courses>



Course	Dredging for Sustainable Infrastructure	Dune dynamics	Coastal risk and adaptation	XBeach modelling
Institution	IADC and CEDA	NCK	IHE Delft	Deltares
Length	Full day 09:30 – 16:30	Full day 09:30 – 16:30	Half day 13:30 – 16:30	Half day 13:30 – 16:30
Instructors	Erik van Eekelen Thomas Vijverberg	Sierd de Vries Kathelijne Wijnberg Gerben Ruessink	Ali Dhastgheib Dano Roelvink William Verbeek	Robert McCall Ellen Quataert Floortje Roelvink
Price	€275,- (incl. VAT)	€100,- (incl. VAT) Free for MSc students	€275,- (incl. VAT)	€275,- (incl. VAT)
Minimum participants	20	20	20	20

Tuesday 29 June 2021 (Day 2)

09:30	Conference Opening		
10:00	Keynote: Dr. Giovanni Coco (University of Auckland) “Prediction” in coastal systems: a perspective from the antipodes		
10:30 – 11:00	Coffee break & Poster Session 1		
	ROOM A	ROOM B	ROOM C
11:00 – 12:40	Session 1a Infragravity Waves	Session 1b Steep Beaches and Barriers	Session 1c Large Scale Morphologic Development
11:00	FIRST CHARACTERISATION OF INFRAGRAVITY WAVES AT THE ARCACHON INLET DURING ENERGETIC EVENTS Bayle, Sénéchal, Bertin, Lerma, Sottolichio, Ganthy	RECOVERING STEEP BEACH PROFILES IN XBEACH Kombiadou, Costas, Roelvink	THE LONG-TERM MORPHOLOGICAL RESPONSE TO SEA LEVEL RISE AND DIFFERENT DREDGING STRATEGIES IN THE WESTERN SCHELDT ESTUARY (NETHERLANDS) Röbke, Elmlady, Van der Wegen, Taal
11:20	RELEVANCE OF INFRAGRAVITY WAVES AT TIDAL INLETS AND ESTUARY MOUTHS Bertin, Mendes, Mengual, Martins, Fortunato, Pezerat, Lavaud	2DH MODELLING OF MEASURED MORPHOLOGICAL DIFFUSIVITY Kakeh, Ribas, De Schipper, Hopkins, Calvete	HOW EROSION-RESISTANT SEDIMENTS STEER FUTURE COASTAL MORPHODYNAMICS Van der Vegt, Van Onselen, Hijma, Van der Vegt, Van der Spek
11:40	INFRAGRAVITY WAVES ON THE NORTH SEA Reniers, Naparowski, Tissier, De Schipper, Akrish, Rijnsdorp	MODELLING OF CROSS-SHORE CHENIER DYNAMICS IN DEMAK, INDONESIA Tas, Gijón Mancheño, Van Bijsterveldt, Helmi, Winterwerp, Van Maren, Reniers	COASTLINE EVOLUTION DUE TO INLET MIGRATION: FIELD VALIDATION AND APPLICATIONS OF THE SHORELINES MODEL Elghandour, Hinson, Roelvink, Reyns, Costas
12:00	PHASE AVERAGED MODELING OF INFRAGRAVITY WAVES Akrish, Smit, Zijlema, Reniers	BARRIER BREACHING OR WASHOVER DEPOSITION: A SIMPLE MODEL FOR THE MORPHOLOGIC IMPACT OF STORMS ON COASTAL BARRIERS Nienhuis, Heijkers, Ruessink	UNDERSTANDING COASTAL RESILIENCE OF THE BELGIAN WEST COAST Verwaest, Dujardin, Montreuil
12:20	MODELLING OF HIGH-ENERGY DEFLECTION RIP AGAINST A NATURAL HEADLAND Mouragues, Bonneton, Castelle, Marieu	HOW EFFICIENTLY CAN WE MODEL BARRIER ISLAND BREACHING? De Goede, Quataert, Van der Lugt, Van Dongeren	A POTENTIAL SOLUTION FOR PREDICTING BEACH MORPHOLOGICAL RESPONSE TO SEA LEVEL RISE Hunt, Davidson, Scott, Russell, Steele

12:40 – 13:50	Lunch & Poster Session 2		
13:50 – 15:10	Session 2a Rips and Intrawaves	Session 2b Shorelines	Session 2c Intra-granular flow
13:50	HYDRODYNAMICS IN A RIP CURRENT SETTING AND MORPHOLOGICAL CHANGES OF THE SURF ZONE, BEACH AND DUNE SYSTEM ON THE WEST COAST OF DENMARK PRIOR TO, DURING AND AFTER A STORM Sørensen, Skielboe, Sørensen, Karlsson, Søren	ARE ACCRETIVE BEACH CONDITIONS INTRINSICALLY (ALONGSHORE) UNSTABLE? Falques, Ribas, Mujal-Colilles, Puig-Polo	MODELING THE INITIATION OF UNDERWATER GRANULAR AVALANCHES: AN EULERIAN APPROACH Montellà, Chauchat, Chareyre, Bonamy, Hsu
14:10	TRIDIMENSIONAL NON-HYDROSTATIC TRANSIENT RIP CURRENTS IN A WAVE-RESOLVING MODEL Marchesiello, Auclair, Debreu, McWilliams, Almar, Benschila, Dumas	EXPLORING THE PARAMETERIZATION AND SENSITIVITY OF A SIMPLE HYBRID SHORELINE CHANGE MODEL Yates, Chataigner, Le Dantec, Harley, Splinter	INFLUENCE OF BED ROUGHNESS AND MEGATIDAL CURRENT (INERTIAL REGIME) ON SALTATION Minster, Floc'h, Valance, Le Dantec, Nicolle, Zerr
14:30	UBIQUITY OF LINEAR ASSUMPTIONS IN NEAR-SHORE WAVE ANALYSIS: THE NECESSITY TO GO BEYOND Bonneton, Lannes, Martins	COMPARING VARIANTS OF A MORPHOLOGICAL HYBRID MODEL FOR SHORELINE EVOLUTION Chataigner, Yates, Le Dantec	LABORATORY MEASUREMENTS AND MODELLING OF PORE PRESSURES IN THE SWASH ZONE Kranenborg, Pauli, Antonio, Jacobsen, Van der Werf, McCall, Campmans, Reniers, Wijnberg, Hulscher
14:50	MODELLING THE EVOLUTION OF WAVE SHAPE De Wit, Tissier, Reniers	FIELD OBSERVATIONS AND MODEL SIMULATIONS OF LONGSHORE TRANSPORT ON LOW-ENERGY, NON-TIDAL BEACHES Ton, Vuijk, Wilmink, Aarninkhof	SOIL WATER RETENTION VARIABILITY ON SANDY BEACHES – IMPLICATIONS FOR SOIL MOISTURE PREDICTIONS Homberger, Hallin, Van Overstraten Kruijsse, Van der Zee
15:10- 15:40	Coffee break & Poster Session 3		
15:40 – 17:00	Session 3a Intrawave Processes	Session 3b Foreshore	Session 3c Observations
15:40	A CONSISTENTLY-SCALED FREQUENCY DOMAIN NON-LINEAR MILD-SLOPE EQUATION MODEL FOR SURFACE WAVE PROPAGATION Kim, Kaihatu	BEACH MORPHODYNAMICS AND HISTORICAL COASTLINE EVOLUTION OF A SAND SPIT WITH GROIN FIELD EXPOSED TO WINTER SEA ICE (GULF OF ST. LAWRENCE, CANADA) <i>Schuhmacher, Neumeier</i>	FREE-SURFACE ESTIMATION FROM OPTICAL SATELLITES USING SENTINEL 2 Bergsma, Almar, Dodet, Chapron, Collard, Delphinat, Aouf

16:00	<p>PHASE-RESOLVING SIMULATION OF WAVES, CURRENTS AND SEDIMENT FLUXES IN A LARGE WAVE FLUME UNDER STORM WAVE SCENARIOS</p> <p>Rafati, Tsai, Hsu, Pontiki, Puleo, Lee, Wengrove, Cox</p>	<p>ALONGSHORE SUBTIDAL SANDBAR MIGRATION PATTERNS ON A HIGHLY DYNAMIC BEACH</p> <p>Kono-Martínez, Ruiz de Alegría-Arzaburu, Mariño-Tapia</p>	<p>TOWARDS AUTONOMOUS COINCIDENT MEASUREMENTS OF SEDIMENT LOAD, PARTICLE SIZE, SETTLING VELOCITY AND TURBULENCE</p> <p>Smerdon, Van der A, O'Donoghue</p>
16:20	<p>LARGE-EDDY SIMULATION OF CROSS-SHORE HYDRODYNAMICS UNDER RANDOM WAVES IN THE SURF AND SWASH ZONES</p> <p>Tsai, Rafati, Hsu, Pontiki, Puleo, Lee, Wengrove, Cox</p>	<p>ASSESSMENT OF DUNE VULNERABILITY TO EXTREME EVENTS IN NEW JERSEY, US USING STORM EROSION INDEX</p> <p>Lemke, Miller</p>	<p>QUANTIFYING SPATIAL COINCIDENCE BETWEEN AUTO-MATICALLY IDENTIFIED RIP CURRENT CHANNELS IN TIME EXPOSURE IMAGERY AND IN-SITU OBSERVATIONS OF BATHYMETRY</p> <p>Trimble, Penko, Maryan</p>
16:40	<p>FIELD OBSERVATIONS OF THE EVOLUTION OF BREAKING-WAVE SHAPES</p> <p>O'Dea, Brodie, Elgar</p>	<p>ACCURATE CELERITY EXTRACTION FROM REMOTE SENSED BATHYMETRIC-INVERSION ALGORITHM</p> <p>Oades, Mulligan, Palmsten</p>	<p>OBSERVATION OF SHORELINE AND UPPERBEACH VEGETATION EVOLUTION BY VIDEO: FIELD ASSESSEMENTS IN THE CARIBBEAN</p> <p>Laigre, Balouin, Villarroel-Lamb, Moisan</p>
17:00	Poster Session 4		
19:00	Evening programme TBD		

Wednesday 30 June 2021 (Day 3)

	ROOM A	ROOM B	ROOM C
08:40 – 10:00	Session 4a Typhoons & Tsunamis	Session 4b Long-term Shoreline Change	Session 4c Deltas & Estuaries
08:40	MODELLING FLOATING DEBRIS AND INDUCED BUILDING DAMAGE DURING A TSUNAMI EVENT Xiong, Zheng, Liang, Wang	SHORELINE CHANGES OF A SANDY BEACH WITH BREAKWATERS AFTER THE 2011 GREAT EAST JAPAN EARTHQUAKE Quang, Takewaka	LONG TERM MORPHODYNAMIC MODELLING OF THE BANGLADESH DELTA SYSTEM Roelvink, Rahman, Van der Wegen, Reyns, Mahamud, Arefin
09:00	ON THE INFLUENCE OF LARGE AND SLOW-MOVING TYPHOON IN GENERATING STORM SURGE AT TOKYO BAY Islam, Takagi	ENSO CONTROLS ON INTERANNUAL SHORELINE CHANGES AROUND THE PACIFIC RIM Vos, Splinter, Harley, Turner	ADAPTATION PATHWAYS FOR SANDY COASTS UNDER EXTREME ACCELERATED SEA LEVEL RISE De Winter, Haasnoot, Luijendijk
09:20	A NUMERICAL INVESTIGATION OF WAVE RUNUP DURING EXTREME TYPHOONS IN 2019 Matsuba, Shimozono, Tajima	UNCERTAINTIES IN SHORELINE PROJECTIONS TO 2100 AT TRUC VERT BEACH (FRANCE): THE INFLUENCE OF SEA-LEVEL RISE AND EQUILIBRIUM MODEL ASSUMPTIONS D'Anna, Castelle, Idier, Rohmer, Le Cozannet, Thieblemont, Bricheno	LONG-TERM MORPHODYNAMICS OF A LARGE ESTUARY SUBJECT TO DECREASING SEDIMENT SUPPLY AND SEA LEVEL RISE Yuan, Sun, Lin, Zhang
09:40	2020 CYCLONE AMPHAN: ITS CHARACTERISTICS AND COMPARISON WITH SIMILAR HISTORICAL EVENTS Meng, Liu, Hussain	SEASONAL TO INTERANNUAL VARIABILITY OF REEF-FRONTED SHORELINES ALONG THE WESTERN AUSTRALIAN COASTLINE Cuttler, Hansen, Lowe	SEA LEVEL RISE IMPACT ON THE MORPHOLOGICAL EVOLUTION OF INTERTIDAL SHOALS Elmilady, Van der Wegen, Roelvink, Van der Spek
10:00	Keynote: Dr. Jennifer Irish (Virginia Tech) Recent Advances and Future Challenges in Coastal Storm Inundation		
10:30	Coffee break & Poster Session 5		
11:00 – 12:40	Session 5a Coral Reefs	Session 5b Alongshore Variability	Session 5c Mangroves, Mud & Salt Marshes
11:00	CIRCULATION DYNAMICS ONSHORE OF SMALL COASTAL REEFS	QUICK REACTION FORCE EG-MOND AAN ZEE: CAPTURING THE ALONGSHORE VARIABILITY IN STORM EROSION	MODELLING SALT MARSH RETREAT AND EXPANSION IN DELFT3D - FLEXIBLE MESH

	Hansen, Da Silva, Segura, Lowe, Cuttler	Price, Grasmeijer, Quataert, Hoegen, Van der Veen, Van Maarseveen, De Zeeuw, Hoogland	Willemsen, Smits, Borsje, Herman, Dijkstra, Bouma, Hulscher
11:20	NONLINEAR SPECTRAL ANALYSIS OF WAVE TRAINS OVER FRINGING REEFS Brühl, Wahls, Tissier	ALONGSHORE SANDBAR AND SHORELINE RHYTHMICITY AT AN OPEN, MEDITERRANEAN BEACH De Swart, Ribas, Calvete, Simarro, Guillén	MULTI-TIME SCALE MANGROVE-MUDFLAT MODELING: EXPLORING GUYANA'S UNIQUE DATASET & NUMERICAL MODELLING Best, Van der Wegen, Dijkstra, Reyns, Roelvink
11:40	INFLUENCE OF WATER LEVEL ON WAVE TRANSFORMATION OVER LA SALINE FRINGING REEF (LA RÉUNION ISLAND, FRANCE) Floc'h, Bruch, Cordier	MODELLING THE OBSERVED EVOLUTION OF TIDAL SAND WAVES IN THE NORTH SEA Krabbendam, Nnafie, Perk, Borsje, De Swart	A NEW BIOPHYSICAL MODEL FOR SEEDLING ESTABLISHMENT AND FOREST DEVELOPMENT IN MANGROVES Gijsman, Horstman, Willemsen, Swales, Wijnberg
12:00	HYBRID METHODS TO DOWNSCALE SWELLS TO CORAL REEF-LINED COASTS Ricondo, Rueda, Ripoll, Cagigal, Méndez	IMPRINT OF OFFSHORE WIND IN THE MORPHODYNAMIC OF A MICROTIDAL MEDITERRANEAN COASTAL SYSTEM Feyssat, Certain, Robin, Raynal, Aleman, Hebert	RESTORING MUD-MANGROVE COASTLINES WITH BAMBOO STRUCTURES Gijón Mancheño, Reniers, Tas, Van Bijsterveldt, Winterwerp, Herman, Muskananfolo
12:20	RAPID PREDICTION OF WAVE RUNUP AND FLOODING ON REEF-LINED COASTS McCall, Pearson, Roelvink, Antolinez, Storlazzi, De Goede, Scott	MODELLING THE COUPLED TIDAL SAND RIDGES AND SHORELINE MORPHODYNAMICS: APPLICATION TO THE BELGIUM COAST Nnafie, De Swart, Falqués, Calvete	INTEGRATING UAV AND SATELLITE IMAGERY: MANGROVE-MUDFLAT EVOLUTION ON A PROGRADING DELTA Beselly, Van der Wegen, Roelvink, Grueters, Dijkstra, Reyns
12:40	Lunch break & Poster Session 6		
	Session 6a Sediment transport	Session 6b Dune erosion & overtopping	Session 6c Nourishments I
13:50	MEASURING SHOREFACE SEDIMENT TRANSPORT AT COSTINHA BEACH, AVEIRO Romão, Silva, Rato, Cascalho, Silva, Taborda, Baptista	DEVELOPMENT OF A NATIONAL COASTAL FLOOD RISK ASSESSMENT FRAMEWORK FOR THE DUTCH COAST USING XBEACH Wilmink, McCall, De Bakker, Steetzel, Van Santen	EXPERIMENTAL INVESTIGATION OF SHOREFACE NOURISHMENT SCENARIOS Larsen, Carstensen, Carstensen, Van der A, Fuhrman
14:10	THE EFFECT OF THE ORIENTATION AND SPACING OF BUILDINGS AT THE BEACH ON AEOLIAN DEPOSITION PATTERNS Poppema, Wijnberg, Mulder, Hulscher	PREDICTING DUNE RESPONSE TO STORMS USING TYPOLOGICAL COASTAL PROFILES Athanasίου, Van Dongeren, Giardino, Ranasinghe, Voudoukas	QUANTIFYING PARAMETER UNCERTAINTY IN COASTAL AREA PREDICTIONS Christiaanse, Kroon, Lujendijk, De Schipper

14:30	LIDAR MEASUREMENTS OF AEOLIAN SALTATION AND WIND FORCING ON AN INTERMEDIATE BEACH Cohn, Dickhudt, Brodie	ASSESSMENT OF WAVE OVERTOPPING BASED ON NUMERICAL MODELLING AND HISTORIC EVENTS FOR AN EARLY WARNING SYSTEM Ferreira, Garzon, Ferreira, Fortes, Reis	MODELLING THE EFFECT OF SEA-LEVEL VARIATIONS ON THE LONG-TERM EVOLUTION OF THE ZANDMOTOR MEGANOURISHMENT Ribas, Portos-Amill, Falqués, Ariaga, Marcos, Ruessink
14:50	SEDIMENT FLUX VARIABILITY IN THE PROXIMITY OF DUNES Pontiki, Puleo, Lee, Wengrove, Huff, Feagin, Rafati, Hsu	TESLA-KIT: AN OPEN-SOURCE PYTHON-BASED LIBRARY FOR COASTAL FLOODING HAZARD IN A CHANGING CLIMATE Cagigal, Mendez, Ripoll, Rueda, Cid, Ricondo, Ortega, Rubio, Ruggiero, Anderson, Leung, Marra	SAND REDISTRIBUTION MECHANISMS AT SHOREFACE NOURISHMENTS Huisman, Walstra, Radermacher, De Schipper, Ruessink
15:10	Coffee break & Poster Session 7		
15:40 – 17:00	Session 7a Subaqueous sediment	Session 7b Coastal Risk	Session 7c Nourishments II
15:40	MODELING THE PROBABILITY OF WAVE-GENERATED RIPPLE GEOMETRY AND EVOLUTION Penko, Kearney, Phillip	MODELING THE HYDRODYNAMICS OF A TIDAL INLET DURING STORMS Velasquez-Montoya, wargula, Torres, Sciaudone, Tomiczek, Smyre	OBSERVATIONS OF SHORELINE RESPONSE TO A SHALLOW NEARSHORE BERM NOURISHMENT De Schipper, Onnink, Bruder, Brodie, Hopkins, Voorendt, Aarninkhof
16:00	INVESTIGATING SHEET FLOW UNDER A NEAR-BREAKING TRANSIENT WAVE USING A TWO-PHASE EULERIAN SEDIMENT TRANSPORT MODEL Delisle, Kim, Mieras, Gallien	THE IMPACTS OF HURRICANES IRMA AND MARIA ON COASTAL HAZARD RISK Reguero, Storlazzi, Viehman, Martin, Cumming, Cole, Gaido, Beck	COASTAL EROSION MITIGATION BASED ON ARTIFICIAL NOURISHMENTS AND SAND BYPASSING SYSTEMS: BARRA VAGUEIRA, PORTUGAL Ferreira, Coelho, Silva
16:20	LARGE-SCALE LABORATORY OBSERVATIONS OF SANDBAR FORMATION, OFFSHORE MIGRATION, AND GROWTH DURING A DUNE SCARPING EVENT Lee, Wengrove, Cox, Pontiki, Puleo, Hsu, Rafati	FLOODING AND EROSION VULNERABILITY AND RISK IN A CHANGING CLIMATE: SHAKTOOLIK, AK Osborne, Elder, Kelly, Capstick, Breach, Murray, Garrigus, Pearson, Mitchells	THE EFFECT OF MEGANOURISHMENTS ON LONG-TERM BEHAVIOR OF EBB-TIDAL DELTAS Van der Vegt, Lenstra
16:40	BEACH DUNE SUBSURFACE HYDRODYNAMIS AND THE FORMATION OF DUNE SCARPS Wengrove, Bond, Pontiki, Puleo	COMBINING A STOCHASTIC CLIMATE EMULATOR WITH SURROGATE MODELS OF DYNAMIC COASTAL SIMULATORS TO DRIVE COASTAL FLOOD IMPACTS RESEARCH Ruggiero, Anderson, Anderson, Mendez, Rueda, Cagigal, Leung, Barnard, Merrifield, Marra	SIMULATING LONG-TERM CROSS-SHORE DYNAMICS UNDER VARIOUS NOURISHMENT TYPES AT THE DUTCH COAST Kettler, De Schipper, Luijendijk, Aarninkhof

17:00	Poster session 8
19:00	COMEM Flashback Dinner TBD

Thursday 1 July 2021 (Day 4)

	ROOM A	ROOM B	ROOM C
08:40 – 10:00	Session 8a Aeolian sediment Transport	Session 8b Coastal Warnings	Session 8c Nature-based Solutions
08:40	THE ERODIBILITY OF BEACH SEDIMENT BY AEOLIAN FORCING MEASURED IN-SITU WITH A MOBILE WIND TUNNEL De Vries, Van IJzendoorn, Bangen, Dijkstra, Hallin	IMPACTS OF PACIFIC AND SOUTHERN OCEAN CLIMATE MODES ON NEW SOUTH WALES TIDAL RESIDUALS, AUSTRALIA Viola, Verdon-Kidd, Power	WAVE ATTENUATION BY VEGETATION UNDER FOLLOWING AND OPPOSING CURRENTS: AN ENERGY BALANCE ANALYSIS Van Rooijen, Lowe, He, Tan, Ghisalberti
09:00	GRAIN SIZE DYNAMICS IN THE INTERTIDAL ZONE: VERTICAL VARIABILITY DUE TO MARINE AND AEOLIAN PROCESSES Van IJzendoorn, Hallin, Vos, De Vries	PROPOSAL AND VERIFICATION OF RIP CURRENT DETECTION USING AI Ishikawa, Shimada, Sawagashira, Komine	TURBULENCE IN LARGE-AMPLITUDE OSCILLATORY FLOW OVER CYLINDER ARRAYS Neshamar, Van der A, O'Donoghue
09:20	NUMERICAL MODELLING OF BLOWOUT FORMATION IN COASTAL DUNES Meijer, De Vries, Reniers, Van IJzendoorn, Van Westen	EVALUATION OF A PROTOTYPE EROSION 'HOT-SPOT' EARLY WARNING SYSTEM Matheen, Turner, Harley, Splinter, Thran	ENHANCING BEACH ACCRETION ON MACROTIDAL ENVIRONMENTS THROUGH NATURE-BASED SOLUTIONS Pellón, Aniel-Quiroga, González, Medina
09:40	SIMULATING AEOLIAN TRANSPORT DURING MOIST BEACH SURFACE CONDITIONS Hallin, Van IJzendoorn, Vos, De Vries	A THRESHOLD-BASED APPROACH TO PREDICTING STORM-DRIVEN BEACH EROSION HAZARDS Leaman, Splinter, Harley, Thran, Turner	MORPHODYNAMIC RESPONSE OF A PROTOTYPE DYNAMIC COBBLE BERM REVETMENT CONSTRUCTED USING ANGULAR, POORLY SORTED MATERIAL Foss, Blenkinsopp, Bayle, Martins, Almeida, Schimmels
10:00	Sand Motor Congress Opening by Rijkswaterstaat & Provincie Zuid-Holland Presentation of results by Carola van Gelder-Maas (Rijkswaterstaat)		
11:00-11:30	Coffee break & Poster Session 9		
11:30	Keynote: Annemieke Nijhof (Director of Deltares) Reflecting forward on the Sand Motor		
12:00	Sand Motor Concepts Abroad		

12:20	Impact of the Sand Motor on upscaling of Building with Nature Henk Ovink (Dutch Special Envoy for International Water Affairs)		
12:40 – 13:50	Lunch & Poster Session 10		
	Session 9a Wave climate & Forecasting	Session 9b Dunes	Session 9c Ships and Surfing
13:50	HYTCWAVES: A HYBRID METHODOLOGY FOR DOWNSCALING TROPICAL CYCLONE INDUCED WAVE CLIMATE Van Vloten, Ripoll, Mendez, Rueda, Cagigal	DUNE EVOLUTION DERIVED FROM 15 YEARS OF HIGH-RESOLUTION LIDAR MEASUREMENTS Karlsson, Sørensen	EFFECT OF DREDGING STRATEGIES ON SILT CONCENTRATIONS IN THE WADDEN SEA NEAR HOLWERD Grasmeijer, Van Weerdenburg, Van Kessel, Herman, Vroom, Lofvers, Mulder
14:10	REAL-TIME FORECAST MODELS FOR COASTAL PROCESSES NESTED IN A SUITE OF BASIN SCALE MODELS Zarillo, Habib	DUNE FOOT DYNAMICS ALONG THE BELGIAN COAST Strypsteen, Roest, Dan, Bonte, Rauwoens	SIMULATING SHIP WAVES IN SHELTERED WATERWAYS WITH XBEACH Almström, Roelvink, Larson
14:30	LINKS BETWEEN ATMOSPHERIC INDICES AND IN-SHORE DIRECTIONAL WAVES: IMPLICATIONS FOR THE COASTS OF UNITED KINGDOM & IRELAND Scott, McCarroll, Masselink, Castelle, Dodet	ANALYSIS OF DUNE DEVELOPMENT AND THE EFFECTS OF SAND TRAPPING FENCES ON THE EAST FRISIAN ISLANDS OF JUIST AND LANGEEOG Zander, Thorenz, Schüttrumpf	ALBANY ARTIFICIAL SURF REEF - SURF AMENITY AND COASTAL RESPONSE INVESTIGATION Gainza, Watterson, Loehr
14:50	MACHINE LEARNING IMPROVES NORTH SEA WAVE FORECASTS De Ridder, Den Bieman, Gautier, Van Nieuwkoop	MARINE AND AEOLIAN PROCESSES IN THE COASTAL ZONE DESCRIBED IN A COUPLED MODEL Van Westen, Leijnse, Ton, McCall, De Vries, Cohn, Meijer	WAVE DISSIPATION AND MEAN CIRCULATION OVER A ROCKY SHORE PLATFORM UNDER STORM CONDITIONS Lavaud, Bertin, Martins, Cou-lombier, Dausse, Pezerat
15:10	Coffee break & Poster Session 11		
15:40 – 17:00	Session 10a Nearshore Hydrodynamics	Session 10b Shorelines	Session 10c Reef-lined islands
15:40	MODELING OF PEAK STORM SURGES IN COASTAL VIRGINIA USING MACHINE LEARNING Lee, Irish, Bensi, Marcy	IMPROVED SATELLITE-DE-RIVED SHORELINE ESTIMATION AT THE HIGH-ENERGY MESO-MACRODTIDAL TRUC VERT BEACH Castelle, Masselink, Scott, Stokes, Konstantinou, Marieu, Bujan	ALONGSHORE VARIATION OF WIND-AND WAVE DRIVEN CONTRIBUTIONS TO TOTAL WATER LEVELS Quataert, Roelvink, Van Ormond, Van Dongeren

16:00	WIND AND WAVE-DRIVEN NEARSHORE CURRENTS Johnson, Cohn, Bak, Dickhudt	SATELLITE-BASED SHORELINE DETECTION FOR MACRO-TIDAL COASTS: IMPACTS OF MORPHOLOGICAL AND HYDRODYNAMIC SETTING Konstantinou, Scott, Masselink, Conley, Stokes, Castelle	IMPACT OF SEA-LEVEL RISE ON CORAL REEF ISLANDS: CASE STUDY OF FIYOARI, HUVADHOO, MALDIVES Masselink, Roelvink, Conley, Poate, Tim, Stokes
16:20	FLOW AND FRICTION IN THE SWASH ZONE: INSIGHTS FROM A LARGE-SCALE EXPERIMENTAL STUDY Pujara	THE EMERGING EARTH OBSERVATION POTENTIAL FOR THE COASTAL RESEARCH COMMUNITY Luijendijk, Kras, Moreno-Rodenas, Donchyts	HYDRODYNAMIC EVALUATION OF CLIMATE CHANGE ADAPTATION STRATEGIES FOR CORAL REEF ISLANDS: CASE STUDY OF FIYOARI, HUVADHOO, MALDIVES Roelvink, Masselink, Conley, McCall, Poate, Scott, Stokes
16:40	SHORT-CRESTED WAVE BREAKING, EDDIES, AND TRANSIENT RIP CURRENTS IN A LABORATORY WAVE BASIN Baker, Nuss, Brodie, Palmsten, Moulton	DOMINANCE OF SEASONAL SHORELINE VARIABILITY TO SHORT-TERM STORM-INDUCED BEACH EVOLUTIONS. CASE STUDY AT LE CARBET BEACH, MARTINIQUE Bouvier, Valentini, Lecacheux, Robinet	NEARSHORE DRIFT DYNAMICS OF SEAWEED AT A REEF-LINED COAST Rutten, Arriaga, Escalante, Appendini
17:00	Poster session 12		
19:00	Conference Dinner & Best Poster Award		

Sand Motor Congress parallel sessions - Thursday 1 July

	Session SM-A	Session SM-B	Session SM-C	Session SM-D
13:50 - 15:10	Sand, Sea, Life Ecology and Morphology	An attractive area Socioeconomic effects	Management and planning Effective management	Science, innovation and export Knowledge development, innovation and application abroad
15:40 - 17:00	Sand, Sea, Life Ecology and Morphology	An attractive area Socioeconomic effects	Management and planning Effective management	Science, innovation and export Knowledge development, innovation and application abroad

Friday 2 July 2021 (Day 5)

	ROOM A	ROOM B	ROOM C
08:40 – 10:00	Session 11a Nearshore Sediment Transport	Session 11b Beaches and Dunes	Session 11c Climate Change Effects
08:40	NEARBED ACCRETIVE SEDIMENT TRANSPORT IN LARGE-SCALE EXPERIMENTS WITH BICHROMATIC WAVE GROUPS Grossmann, Hurther, Van der Zanden, Cáceres, Alsina	UNDERSTANDING BEACHES IN ESTUARIES AND BAYS Vila-Concejo, Fellowes, Gallop, Largier, Winkler-Prins, Rahbani, Montes-Perez, Gonzalez-Villanueva, Pereira, Del Rio, Alejo	UNCERTAINTY IN REGIONAL SEA LEVEL RISE DUE TO CLIMATE CHANGE AROUND THE EAST ASIA Miyuchi, Mori, Shimura, Tatebe
09:00	TRANSPORT AND DYNAMICS OF SAND MIXTURES IN OSCILLATORY FLOW Boscia, Van der A, O'Donoghue	EVOLUTION OF BEACH-DUNE PROFILES ALONG URBANIZED SEA FRONTS: A COMPARISON BETWEEN SEAWALL BACKED AND UNPERTURBED ADJACENT BEACHES ON A HIGHLY ENERGETIC COAST Nicolae Lerma, Billy, Bulteau, Mallet	LONG-TERM PREDICTION OF STORM SURGE CHARACTERISTICS USING LARGE ENSEMBLE CLIMATE PROJECTION DATA IN SUO-NADA SEA, JAPAN Ide, Yamashiro, Hashimoto, Kodama, Sugimura
09:20	LARGE-SCALE LABORATORY EXPERIMENTS: THE EFFECT OF BED SLOPE ON CROSS-SHORE SWASH ZONE MORPHODYNAMICS Dionísio António, Van Der Werf, Horstman, Cáceres, Alsina, Hulscher	THE USE OF UAV LOW FLIGHTS TO MONITOR COASTAL DUNES Bon de Sousa, Costas, Ferreira	CLIMATOLOGICAL MODELING OF MAXIMUM STORM SURGE HEIGHTS INDUCED BY TROPICAL CYCLONES Mori, Ariyoshi, Shimrua, Miyashita, Ninomiya
09:40	TURBULENCE RESOLVING TWO-PHASE FLOW SIMULATIONS OF SHEET-FLOWS UNDER WAVES Mathieu, Cheng, Chauchat, Bonamy, Hsu	DUNE IN FRONT OF A DIKE: ON THE DESIGN AND INITIAL MONITORING OF A SPECIFIC STUDY SITE FOR EARLY-STAGE DUNE GROWTH IN BELGIUM Rauwoens, Bonte, Provoost, Verwaest, Muylaert, Strypsteen, Van Besien	PREDICTING SANDY SHORELINE CHANGES IN A CHANGING WAVE CLIMATE Ibaceta, Splinter, Harley, Turner
10:00	Keynote: Dr. Nadia Sénéchal (Bordeaux University) Mastering Complexity through Simplification: a challenge for coastal research		
10:30	Coffee break		

11:00 – 12:00	Session 12a Estuarine Sediment Transport	Session 12b Observations of Bathymetry	Session 12c Wind Farms
11:00	LAGRANGIAN SEDIMENT TRANSPORT MODELLING AS A TOOL FOR INVESTIGATING COASTAL CONNECTIVITY Pearson, Elias, Van Ormondt, Roelvink, Lambregts, Wang, Van Prooijen	COASTAL BATHYMETRY FROM SATELLITE VIDEO Almar, Bergsma, Brodie, Bak, Lemai-Chenevier, Delvit	ASSESSING THE INFLUENCE OF OFFSHORE DISTANCE OF WAVE FARMS: A COMPARISON OF PHASE-AVERAGED AND PHASE RESOLVING MODELS David, Rijnsdorp, Hansen, Lowe
11:20	ASYMMETRIC TIDAL DUNES IN EQUILIBRIUM AND DISEQUILIBRIUM WITH ESTUARINE HYDRODYNAMICS AND THE EFFECT ON SEDIMENT TRANSPORT Herring, Becker, Lefebvre, Zorndt, Winter	LONG-TERM MONITORING OF BEACH TOPOGRAPHY AND NEARSHORE BATHYMETRY AT PORSMILIN, FRANCE: CHALLENGES AND OPPORTUNITIES Bertin, Floc'h, Le Dantec, Jaud, Delacourt	A DATA-DRIVEN MORPHOLOGICAL APPROACH TO REDUCE RISKS FOR WIND FARMS IN DYNAMIC COASTAL REGIONS Scheel, Luijendijk, Waßmuth, Riezebos
11:40	MODELLING THE FORMATION OF ESTUARINE SAND DUNES: THE INFLUENCE OF THE GRAVITATIONAL CIRCULATION Van der Sande, Roos, Hulscher, Gerkema	MORPHOLOGIC EVOLUTION OF SPITS IN MICRO-TIDAL COASTAL ENVIRONMENTS Kroon, Rossel, Westh	FIRST ORDER IMPACT OF OFFSHORE WIND FARM UPSCALING ON THE WAVE CLIMATE AND THE DUTCH COASTLINE Ballas, Aarninkhof, Hoekstra, Moerman, Zijlema, Huisman
12:00	Conference Closure & Award Ceremony		
12:40	Lunch break		
14:00	Sand Motor Fieldtrip		
17:15	Beach BBQ		

Poster Sessions

Poster Session 1

Tuesday 29 June, 10:30-11:00

EFFECT OF THE SEAWARD BOUNDARY CONDITION ON THE SWASH HYDRODYNAMICS WITH BOTTOM FRICTION	Liu, Zeng
UNDERSTANDING THE IMPACTS OF SUBMERGED STRUCTURES ON NEARSHORE HYDRODYNAMICS THROUGH NON-HYDRO-STATIC MODELLING	Da Silva, Hansen, Rijnsdorp, Lowe, Buckley
PREDICTION OF MEAN WAVE OVERTOPPING AT RUBBLE MOUND SEAWALLS: COMPARISON OF EMPIRICAL FORMULAE	Koosheh, Etemad-Shahidi, Cartwright, Tomlinson, Van Gent
NEARSHORE WAVE PREDICTION AT JAPANESE COAST EMPLOYING GLOBAL WAVE DATA AND ARTIFICIAL NEURAL NETWORK FOR ONE WEEK	Tom, Takeda, Hara, Kim, Mase
ELUCIDATION OF THE STRONG WAVE-CURRENT INTERACTION IN A HIGHLY TURBID AND TIDALLY-DOMINATED COASTAL AREA IN THE BAY OF BENGAL	Bobiles, Sanuki, Sato, Nakayama, Takae
VULNERABILITY OF CORAL ISLANDS TO CLIMATE CHANGE	Fellowes, Vila-Concejo, Byrne, Bruce, Baker, Alcock
VARIABILITY OF LONG-TERM PATTERNS OF WAVE-DRIVEN LONGSHORE SEDIMENT TRANSPORT, ESTIMATION AND UNCERTAINTY ANALYSIS	Zarifsanayei, Antolínez, Etemad-Shahidi, Cartwright, Strauss
WHEN SHOULD WE MATTER ON NEARSHORE BAR EFFECTS ON RUNUP?	Bruyere, Sénéchal, Power, Nicolae Lerma, Gomes Da Silva

Poster Session 2

Tuesday 29 June, 12:30-13:50

BED SLOPE IMPACT ON WAVE NONLINEARITIES IN MACROTIDAL ENVIRONMENT	Hayoun, Floc'h, Delacourt, Filipot, Caulet
HYDRODYNAMIC MODELS ENSEMBLE TO FORECAST FUTURE ESTUARINE CIRCULATION PATTERNS	Iglesias, Pinho, Bio, Avilez-Valente, Melo, Vieira, Bastos, Veloso-Gomes
INCREASE ON COASTAL FLOOD FREQUENCY INDUCED BY SEA-LEVEL RISE AT FARO BEACH, SOUTH PORTUGAL	Ferreira
AUTOMATED PAN-EUROPEAN COASTAL BATHYMETRY FROM SATELLITES	Cesbron, Almar, Bergsma, Thoumyre
EXAMINING THE POTENTIAL OF MEDIUM RESOLUTION SATELLITE IMAGERY FOR HIGH FREQUENCY OBSERVATION OF NEARSHORE SANDBARS	Janušaitė, Jarmalavičius, Jukna

USE OF AN INDEX TO IDENTIFY, ASSESS, AND MONITOR DUNE VEGETATION DISTURBANCE	Talavera, Costas, Ferreira, Bon de Sousa, Ramires, Carrasco
QUANTITATIVE IMPACT OF WIND DIRECTION ON AIRFLOW PATTERNS AND BED MORPHOLOGY AROUND BUILDINGS AT THE BEACH	Pourteimouri, Campmans, Wijnberg, Hulscher
IMPACTS OF CLIMATE CHANGE ON THE MINHO ESTUARY MORPHODYNAMICS	Melo, Pinho, Iglesias, Bio, Avilez-Valente, Vieira, Bastos, Veloso-Gomes
CALIBRATING A LONG-TERM XBEACH MORPHOLOGY MODEL OF MAASVLAKTE 2, LESSONS LEARNED	Attema, Van Leeuwen, Roelvink
FACTORS REGULATING SEDIMENT FLUXES OVER AN ENGINEERED FOREDUNE AND ADJACENT DUNE SLACK	Oude Vrielink, Wijnberg, Galiforni-Silva, Eleveld, Van Westen

Poster Session 3

Tuesday 29 June, 15:10-15:40

PRELIMINARY REPORT ON THE APPLICATION OF EXISTING GRAVEL WAVE RUNUP EQUATIONS ON THE CROATIAN EASTERN ADRIATIC COAST	Bujak, Carević, Ilic, Lončar, Ružić
HOW TO INTERPRET NONLINEAR FOURIER SPECTRA OF DEEP WATER WAVES	Wahls, Chimmalgi
MODELING THE IMPACTS OF HARBOR DREDGING AND DISPOSAL ON COASTAL WATER-LEVELS AND RUN-UP WITH XBEACH	Nahon, Proença, Baptista, Fortunato, Oliveira, Oliveira, Lira Silva, Taborda, Abreu, Silva, Freire
SATELLITE-BASED TOPOGRAPHY EVOLUTION: AN APPLICATION TO MONITOR COASTAL CHANGES AT SAINT LOUIS REGION, LANGUE DE BARBARIE, SENEGAL	Taveneau, Almar, Bergsma
NUMERICAL MODELLING OF SHALLOW JET FLOWS	Steenman
FIRST INSIGHTS INTO RIP CURRENTS PROBLEMATICS ON THE ROMANIAN BLACK SEA COAST	Tatui, Zainescu, Constantin, Vespremeanu-Stroe, Vaidianu, Preoteasa
DUNE EROSION DURING STORM SURGES	Van Wiechen, Scheijmans, Wilmink, De Vries, Aarninkhof
SALT MARSH RESILIENCE TO SEA-LEVEL RISE AND INCREASED STORM INTENSITY	Pannozzo, Leonardi, Carnacina, Smedley

Poster Session 4

Tuesday 29 June, 17:00-17:30

MODELLING STORM-DRIVEN EROSION IN STEEP BEACHES	Garzon, Ferreira, Plomaritis
WIND-DRIVEN SURFACE WAVES AND COASTAL CIRCULATION OVER THE CONTINENTAL SLOPE AND SHELF DURING HURRICANE FLORENCE	Manchia, Mulligan
ASSESSMENT OF DESIGN WAVES IN THE GULF OF MEXICO	Appendini, Ruiz-Salcines, Duran
SPATIO-TEMPORAL RIP CURRENT VARIATIONS FROM UAV VIDEO IMAGERY	Gracia-Barrera, Ruiz de Alegría-Arzaburu, Arriaga, Kono-Martínez
MEASUREMENT AND MODELING OF INTRA-EVENT PROCESSES ON A STEEP BEACH	Amante, Mazur, Puleo, Smallegan, Webb
ALONGSHORE RUNUP VARIATIONS ON A BEACH WITH RIP-CURRENTS	Ruiz de Alegría-Arzaburu, Gracia-Barrera, Kono-Martínez
HYDRODYNAMIC MODELLING OF MANAGED DIKE REALIGNMENT FOR FLOOD MITIGATION IN A TIDAL RIVER ESTUARY AND FLOODPLAIN	Purcell, Van Proosdij, Graham, Mulligan

Poster Session 5

Wednesday 30 June, 10:30-11:00

SEA-LEVEL VARIABILITY FROM COAST TO ESTUARY	Palmer, Hart, Broadfoot, Hanslow, Power
THE INFLUENCE OF COMPLEX FORESHORE TOPOGRAPHY ON WAVE RUNUP IN ALBANY, WESTERN AUSTRALIA	Portch, Buckley, Cuttler, Lowe, Hansen
A MODIFIED STEADY KORTEWEG-DE VIRES-BURGERS EQUATION WITH A VARIABLE COEFFICIENT	Cheng, Liu
SPATIO-TEMPORAL VARIABILITY OF TIDAL ASYMMETRY IN A HIGHLY MODIFIED ESTUARY	Ji, Huang, Zhang
IMPACT OF SWELLS ON WAVE-CURRENT INTERACTION	Poulose, Mishra, Behera
NEARSHORE WAVE PREDICTION FROM REAL-TIME ONE-WEEK AHEAD GLOBAL WAVE FORECAST USING GROUP METHOD OF DATA HANDLING	Kim, Takeda, Hara, Tom, Mase
CHARACTERISTICS OF CHANNEL SEDIMENTATION IN THE HIGHLY TURBID AND TIDALLY-DOMINATED COASTAL AREA OF BANGLADESH	Sanuki, Bobiles, Sato, Nakayama, Takae
SIMULATING PLUNGING BREAKING WAVES WITH AN ANISOTROPIC REYNOLDS STRESS TURBULENCE MODEL	Li, Fredberg, Larsen, Fuhrman
ANALYSIS OF NONLINEAR SHIP-INDUCED 3D WAVE FIELDS USING NONLINEAR FOURIER TRANSFORMS	Zhang, Wahls, Brühl

Poster Session 6

Wednesday 30 June 12:30-13:50

EXPLORING RIVER JET AND LONGSHORE CURRENT INTERACTIONS AT WAVE-INFLUENCED RIVER MOUTHS	Zăinescu, Vespremeanu-Stroe, Tătui, Anthony
FLOOD PROTECTION VERSUS SAND NUISANCE; A CONFLICT OF INTEREST.	Roest, Strypsteen, Rauwoens
LARGE-SCALE MORPHOLOGICAL CHANGES ALONG A MESOTIDAL AND HIGHLY ENERGETIC COASTLINE USING SENTINEL-2 MSI DATA	Burvingt, Lubac, Nicolae-Lerma, Sénéchal
ENVIRONMENTAL STRAIN ON BEACH ENVIRONMENTS RETRIEVED AND MONITORED BY SPACE-BORNE SYNTHETIC APERTURE RADAR.	Hanssen, Di Biase
EROSION ASSESSMENT IN A MICROTIDAL SAND SPIT BY MEANS OF DUNE FOOT VARIATIONS	Montes, Benavente, Plomaritis, Del Río
INITIAL MIXED-SAND RESPONSE OF A BACK-BARRIER BEACH NOURISHMENT	Bosma, Price, Van der Lugt, Kleinhans, Van Maarseveen
MODELLING THE SALINITY RESPONSE TO FRESH WATER FLOW AND VARIABLE TIDAL AMPLITUDE IN AN IDEALIZED RIVER DELTA	Matsoukis, Amoudry, Bricheno, Leonardi
DOES VEGETATION MAKE COASTAL DUNES MORE RESISTANT TO STORM INDUCED EROSION?	Costas, Garzon, Ferreira

Poster Session 7

Wednesday 30 June, 15:10-15:40

NUMERICAL STUDY OF WAVE TRANSFORMATIONS AND RUNUP VARIABILITY ALONG AN EMBAYED BEACH - GRANDE PLAGÉ OF BIARRITZ, FRANCE	Pinault, Morichon, Roeber, Delpy
NONLINEAR FOURIER ANALYSIS OF ROGUE WAVE MEASUREMENTS	Lee, Brühl, Doong, Wahls
DISCRETE FREQUENCY DOWNSHIFTING IN WAVE SPECTRA ON SHALLOW WATER	Saprykina, Kuznetsov, Shtremel
BEACH WIDTH CHANGE AND VOLUME LOSS OBSERVATIONS AT A LARGE NOURISHED BEACH	Kroon, De Schipper, Pak, Spaans, De Vries, Aarninkhof
COASTAL BATHYMETRY ESTIMATION FROM SATELLITE IMAGERY USING DEEP CONVOLUTIONAL NEURAL NETWORKS	Al Najar, Thoumyre, Almar, Bergsma, Benschila, Wilson
MAPPING COASTAL BATHYMETRY BY LAYMEN USING DRONE VIDEO AND AN UNSUPERVISED DEPTH INVERSION ALGORITHM	Gawehn, De Vries, Aarninkhof
SENTINEL-2 DERIVED BATHYMETRY AS DATA SOURCE FOR COASTAL CLIMATE CHANGE ADAPTION STRATEGIES IN GALICIA, SPAIN. A CASE STUDY.	Costas, Cao, Peña, Sánchez, Varela, Eiris

LABORATORY MODELLING OF THE RAPID SWASH MORPHODYNAMICS AND EQUILIBRIUM OF A TERRACE BEACH	Mingo, Lacaze, Almar
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Poster Session 8

Wednesday 30 June, 17:00-17:30

FRACTIONAL TRANSPORT IN MIXED SIZE SEDIMENT BEDS	Ferreira, Silva, Bernabeu, Abreu
PRESSURE GRADIENTS UNDER DAM BREAK DRIVEN SWASH	Olney, Puleo, Torres-Freymuth
URBAN COASTAL FLOODING PATHWAYS DURING STORM EVENTS	Mazur, Amante, Puleo, Shi, Smallegan, Webb
BEACH PROFILE EVOLUTION AND WAVE RUNUP DETECTION USING A RAPID-DEPLOYABLE LINE-SCANNING LOW-COST (LLC) LIDAR SYSTEM	O'Connor, Mieras
AUTOMATIC CLASSIFICATION OF SPATIO-TEMPORAL BED CHARACTERISTICS FROM REMOTE IMAGERY ON A COASTAL BEACH	Rivera-Casillas, Cohn, Brodie
QUANTIFYING NON-LINEAR NEARSHORE WAVEFORMS FROM OBSERVATIONS	Kalra, Warner, Sherwood, Suttles
RECOVERY OF EROSIONAL FEATURES FOLLOWING HURRICANE DORIAN	Hegermiller, Warner, Sherwood, Aretxabaleta
MANAGING DYKE RETREAT: IMPORTANCE OF CHANNEL NETWORK EVOLUTION AND MAINLAND SLOPE ON STORM SURGE DISSIPATION OVER SALT MARSHES	Pinton, Xu, Canestrelli

Poster Session 9

Thursday 1 July, 10:30-11:00

EFFECTS OF DISCHARGE REGULATION AND SEA-LEVEL RISE ON TDAL CURRENT ASYMMETRY IN THE CHANGJIANG ESTUARY	Zhang
ANALYTICAL APPROACH TO CAPTURE SALT DYNAMICS IN HUMEN	Xu, Zhang, Hoitink, Zheng
STUDY OF CROSS-SHORE PROFILES AT SOUTHERN PARTS OF CASPIAN SEA UNDER THE RAPID CHANGES OF WATER LEVEL	Enayati, Soltanpour, Neshelli

Poster Session 10

Thursday 1 July 12:30-13:50

HYDRO-SEDIMENTARY DYNAMICS OF THE LOWER SHOREFACE UNDER STORM CONDITIONS	Pezerat, Bertin, Coulombier
CAN WE USE WAVE SHAPE PARAMETERIZATIONS ON LOW- AND MIXED-ENERGY SHELTERED BEACHES?	Van Der Lugt, Ton, De Schipper, Bosma, Aarninkhof
THE USE OF OPTICAL FLOW TO ESTIMATE NEARSHORE SURFACE CURRENTS FROM VIDEO IMAGERY	Rodríguez-Padilla, Castelle, Marieu, Bonneton, Mouragues, Martins, Morichon
SENSITIVITY OF NEAR-INFRARED PERMANENT LASER SCANNING INTENSITY TO RETRIEVE SOIL MOISTURE AND ELECTRICAL CONDUCTIVITY ON A COASTAL BEACH: CALIBRATION PROCEDURE USING IN SITU DATA	Di Biase, Hanssen, Vos
GRAIN SIZE AS AN INDICATOR FOR SEDIMENT TRANSPORT: AN INTENSIVE SPRING-NEAP-SPRING FIELD CAMPAIGN AT AN INTERTIDAL BARRED BEACH	Rauwoens, Strypsteen
WAVE CLIMATE VARIABILITY AND LONGSHORE SEDIMENT TRANSPORT ON THE DOCE RIVER DELTA COAST (BRAZIL)	Polizel, Burningham
INTERCOMPARISON OF MORPHODYNAMIC MODELS OF THE TRUC VERT BEACH ECORS' 2008 FIELD CAMPAIGN	Chauchat, Shafiei, Bonamy, Richard
SAND BANK MORPHOLOGIES AND SEAGRASS MEADOWS AS INDICATORS OF SEVEN DECADES COASTAL LAGOON ADAPTATION	Billy, Stepanian, Paquier, Gouguet, De la Torre, Muñoz

Poster Session 11

Thursday 1 July, 15:10-15:40

ASSESSING THE ROLE OF EXTREME MEDITERRANEAN STORM ON A COASTAL RIVER OUTLET DYNAMIC	Meslard, Balouin, Robin, Bourrin
STATISTICAL WAVE PROPERTIES IN SHALLOW WATER USING CNOIDAL THEORY	Cervantes, Kalisch, Lagona, Paulsen, Roeber
MODELLING THE 21ST-CENTURY COASTAL VULNERABILITY SCENARIOS FOR COASTAL SUSTAINABILITY: AN INTERDISCIPLINARY APPROACH	Dada, Almar, Morand, Menard
UAVS FOR STRUCTURE-FROM-MOTION GRAVEL POCKET BEACH MONITORING	Ružić, Ilic, Tadić, Krvavica, Carević, Benac
THE POSSIBLE CONTRIBUTION OF AUTONOMOUS AND INTELLIGENT SYSTEMS TO THE UNDERSTANDING OF LONG-TERM AND LARGE-SCALE COASTAL EVOLUTION	Capobianco, Stive
NEW DEVELOPMENTS IN DUTCH COASTAL MONITORING	Vos, Bosma, Gawehn, Goessen, Kuschnerus, Van der Lugt, Van Langen, Lindenbergh, Ton, De Vries, Aarninkhof

THE INVOLUNTARY COASTAL EROSION DEFENCE STRUCTURE: A NUMERICAL STUDY OF THE SECOND LIFE OF A WATER INLET	Scipione, Ruffini, Di Risio, Briganti, Castellino, De Girolamo
THE ZANDMOTOR USES THE FORCES OF THE WIND AND WAVES AS ACTIVE AGENCIES OF CHANGE, BUT CAN IT ALSO BE VALUED AS A DRIVING FORCE FOR HUMANITY TO CHANGE?	Heerema
RESPONSE OF DUNE SYSTEMS OF ALONGSHORE VARYING PERMEABILITY TO DIVERSE WAVE PROPERTIES AND SURGE LEVELS	Elsayed, Quiros Simon, Goseberg
ENHANCING THE FREE-FORM COASTLINE EVOLUTION MODEL, SHORELINES, PREDICTABILITY USING DATA ASSIMILATION	Saleh, El Serafy, Vitousek, Elghandour, Reyns, Roelvink, Corzo

Poster Session 12

Thursday 1 July, 17:00-17:30

MAKING WAVES IN THE CLASSROOM: ENGAGING HIGH SCHOOL STEM STUDENTS IN COASTAL DYNAMICS USING PORTABLE WAVE FLUMES	Puleo, Malladi, Rumaker, Noe
LONG-TERM DYNAMICS OF AN UPDRIFT FILLET	Dally
A NUMERICAL STUDY OF SAND RIPPLE DYNAMICS USING A EULERIAN TWO-PHASE MODEL	Salimi Tarazouj, Hsu, Traykovski, Cheng, Chauchat