

Programme

Sunday, 3 April

- 17:00 20:00 **Registration**
- 18:30 20:00 **Ice Breaker Reception**

Monday, 4 April

- 8:00 9:30 **Registration**
- 9:30 10:00 **Opening**
- 10:00 10:50 **Keynote Address**
"Large Scale Coastal Change During Extreme Storms"
Dr. Asbury H. Sallenger
- 10:50 11:30 **Coffee**
- 11:30 13:10 **01A Tidal inlets**
- 11:30 13:10 **01B Dune erosion**
- 11:30 12:45 **01C Bed forms**
- 13:10 15:00 **Lunch**
- 15:00 16:15 **02A Morphodynamics and coastal structures**
- 15:00 16:40 **02B Sand bars**
- 15:00 16:40 **02C Sediment transport**
- 16:00 16:30 **Optional visit to the CIEM Wave Flume at LIM/UPC**
- 16:40 17:00 **Coffee**
- 17:00 17:50 **03A Macrotidal morphodynamics**
- 17:00 17:50 **03B Measurements**

Tuesday, 5 April

- 9:00 11:05 **04A Storm events**
- 9:00 11:05 **04B Hydrodynamics**
- 9:00 11:05 **04C Suspended sediment**
- 11:05 11:30 **Coffee**
- 11:30 13:10 **05A Remote sensing**
- 11:30 13:10 **05B Rythmic features**
- 11:30 13:10 **05C Bed-load transport**
- 13:10 15:00 **Lunch**
- 15:00 16:40 **06A Long-term morphodynamics**
- 15:00 16:40 **06B Breaching and overwash**
- 15:00 16:40 **06C Swash**
- 16:00 16:30 **Optional visit to the CIEM Wave Flume at LIM/UPC**
- 16:40 17:00 **Coffee**
- 17:00 17:50 **07A Trenchs and pits**
- 17:00 18:15 **07B Sediment transport modelling**
- 17:00 17:50 **07C Wave modelling**

Wednesday, 6 April

9:00 10:15	08A	Morphodynamics and coastal structures
9:00 10:40	08B	Tidal inlets
9:00 11:05	08C	Sediment transport
10:30 11:00		Optional visit to the CIEM Wave Flume at LIM/UPC
11:05 11:30		<i>Coffee</i>
11:30 13:10	09A	Overwash and breaching
11:30 13:10	09B	Sediment transport
11:30 13:10	09C	Coarse/mixed sediments
13:10 15:00		<i>Lunch</i>
15:00 16:40	10A	Storm events
15:00 16:40	10B	Wave-structures interaction
15:00 16:15	10C	Estuaries
16:40 17:00		<i>Coffee</i>
17:00 18:15	11A	Remote sensing
17:00 18:15	11B	Sediment transport and bedforms
17:00 17:50	11C	Estuaries and silt

Thursday, 7 April

9:00 10:15	12A	Nourishment
9:00 10:40	12B	Morphodynamic modelling
9:00 10:15	12C	Swash
10:30 11:00		Optional visit to the CIEM Wave Flume at LIM/UPC
11:05 11:30		<i>Coffee</i>
11:30 13:10	13A	Beach profiles
11:30 12:20	13B	Human/climatic induced morphodynamic changes
11:30 12:45	13C	Boundary layers
13:10 15:00		<i>Lunch</i>
15:00 16:40	14A	Protection/nourishment
15:00 16:15	14B	Large scale morphodynamics
15:00 16:40	14C	Morphodynamics (various)
16:40 17:00		<i>Coffee</i>
17:00 18:15	15A	Sand waves - sand banks
17:00 18:15	15B	Hydrodynamic measurements
17:00 18:15	15C	Sediment transport and grain size
20:00 23:00		Banquet

Friday, 8 April

8:00 21:00	Technical visit to the Ebro Delta
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CD05 - COASTAL DYNAMICS 2005

UPC, Barcelona, Spain

4-8 April, 2005

	Sunday, 3 April 2005	Monday, 4 April 2005	Tuesday, 5 April 2005	Wednesday, 6 April 2005	Thursday, 7 April 2005	Friday, 8 April 2005
08h00-08h30 08h00		Registration				Technical Tour
08h30-09h00						
09h00-09h30 9h00		9h30 Opening				
09h30-10h00		10h00 Keynote Address	Session 04A/04B/04C	Session 08A/08B/08C	Session 12A/12B/12C	
10h00-10h30						
10h30-11h05		Coffee	Coffee	Coffee	Coffee	
11h05-11h30 11h05		Session 01A/01B/01C	Session 05A/05B/05C	Session 09A/09B/09C	Session 13A/13B/13C	
11h30-12h00 11h30						
12h00-12h30		Lunch	Lunch	Lunch	Lunch	
12h30-13h00						
13h10-15h00 13h10		Session 02A/02B/02C	Session 06A/06B/06C	Session 10A/10B/10C	Session 14A/14B/14C	
15h00-15h30 15h00		Coffee	Coffee	Coffee	Coffee	
15h30-16h00						
16h00-16h40		Session 03A/03B/03C	Session 07A/07B/07C	Session 11A/11B/11C	Session 15A/15B/15C	
16h40-17h00 16h40	Registration					
17h00-17h30 17h00						
17h30-18h00						
18h00-18h15						
18h15-18h30	Ice Breaker Reception					Banquet
18h30-19h00 18h30						
19h00-19h30						
19h30-20h00						
20h00-20h30 20h00						Banquet
20h30-21h00						
21h00-21h30						
21h30-22h00						
22h00-22h30						
22h30-23h00 23h00						

Key Address (60 minutes duration) 10h00-11h00

Registration (Sunday from 17h00 till 20h00 and Monday from 8h00 till 18h30) & Secretariat (during technical sessions and coffee breaks)

Papers (25 minutes duration; 20 minutes presentation + 5 minutes discussion)

Technical programme

Each paper 25 minutes: 20 min. presentation + 5 min.

Monday, 4 April

11:30 13:10 01A Tidal inlets

Chairman: *E. Mauricio Gonzalez Rodriguez*

- 235** Coastal inlet functional design: Anticipating morphologic response
Kraus, N.C.
- 221** The balance between wave and river forces on inlet morphodynamics
Siegle, E., Schettini, C.A., Klein, A.H.F.
- 157** Application of a morphodynamic modelling system to an idealized inlet
Zózimo, A.C., Oliveira, A., Fortes, C.J.E.M., Fortunato, A.B.
- 226** Interactions of large-scale groyne and tidal inlet migration
Ladage, F., Stephan, H.-J., Niemeyer, H.-D.

11:30 13:10 01B Dune erosion

Chairman: *Troels Aagaard*

- 072** The effect of the wave period on dune erosion
de Vroeg, H., den Heijer, K., van de Graaff, J., Coeveld, M., Steetzel, H.
- 017** Effects of wave groupiness on dune erosion
van Thiel de Vries, J.S.M., van de Graaff, J., Reniers, A.J.H.M., Stive, M.J.F.
- 090** Analytical modeling of dune response due to wave impact and overwash
Larson, M., Donnelly, C., Hanson, H.
- 107** Rip-currents, cusped shorelines and eroding dunes
Thornton, E.B., Sallenger Jr., A.H., MacMahan, J., Reniers, A., Symonds, G.

11:30 12:45 01C Bed forms

Chairman: *Andy Bradbury (pending confirmation)*

- 091** Small-scale bedforms and hydraulic roughness on a sandy shoreface
Kleinhans, M.G., Grasmeijer, B.T., Dolphin, T.
- 155** Separating bedforms of different scales in MBES data
Lindenbergh, R.
- 161** Bed form dimension and equivalent roughness sizes in tidal channels along the German North Sea coast
Pramono, G., Mayerle, R.

15:00 16:15 02A Morphodynamics and coastal structures

Chairman: *Yung-Fang Chiu*

- 027** Scour of mixed beaches near a sea wall: cross shore morphodynamic modelling and measurements
Lawrence, J., Chadwick, A.
- 086** Bathymetric survey around a seawall on a barred profile (Rhône delta, Mediterranean Sea, France)
Samat, O., Sabatier, F., Lambert, A.
- 025** A stochastic model for shoreline evolution near structures
Reeve, D.E., Spivack, M.

15:00 16:40 02B Sand bars

Chairman: *Nick Dodd*

- 095** Nearshore bar response to time varying conditions
Smit, M.W.J., Reniers, A.J.H.M., Stive, M.J.F.
- 186** Interannual variability of nearshore morphology along a high-energy dissipative coast
Ruggiero, P., Plant, N.G., Gelfenbaum, G., Kaminsky, G.M.
- 037** The role of longshore currents in intertidal bar mobility on a macrotidal beach under high-energy wave conditions, Dune d'Amont, Wissant Bay, Northern
Sedrat, M., Anthony, E.J.
- 097** Sediment availability and conceptual models of sand bars morphodynamics for a microtidal beach (Sète, France)
Certain, R., Barusseau, J.-P.

Each paper 25 minutes: 20 min. presentation + 5 min.

15:00 16:40 **02C Sediment transport**

Chairman: *Paolo Ciavola (pending confirmation)*

- 180** Morphologic prediction from coupled grain-scale and equilibrium-scale models
Plant, N.G., Calantoni, J.
- 164** An evolutionary computation approach to sediment transport modelling
Kizhisseri, A.S., Simmonds, D., Rafiq, Y., Borthwick, M.
- 173** Modelling of sand transport with graded sands under oscillatory sheet-flows
Hassan, W.N., Ribberink, J.S.
- 189** The effect of wave action on gravity currents
Robinson, T.O., Simons, R.R., Eames, I.

17:00 17:50 **03A Macrotidal morphodynamics**

Chairman: *Hans Hanson*

- 033** Morphodynamic mobility of intertidal bars on macrotidal "ridge and runnel" beach, Dunkerque-Est, Côte d'Opale, Northern France
Reichmüth, B., Anthony, E.J.
- 257** Summertime morphodynamics of two beaches presenting different wave exposure. Faial island, Azores, Portugal
Lafon, V., Jose, F., Tempera, F., Macedo, L., Martins, A.

17:00 17:50 **03B Measurements**

Chairman: *Manuel Espino*

- 105** Nonlinear phase speeds and depth inversion
Catalán, P.A., Haller, M.C.
- 146** Turbulence in the surf zone using two Acoustic Doppler Velocimeters
Raynaud, O., Dupuis, H., Hurther, D., Bonneton, P., Sénéchal, N., Chapalain,

Each paper 25 minutes: 20 min. presentation + 5 min.

Tuesday, 5 April

9:00 11:05 04A Storm events

Chairman: *Stefan Aarninkhof*

- 031** Field observation of shoreline erosion during a storm
Mizuguchi, M.
- 254** A storm classification based on the beach erosion potential in the Catalanian
Mendoza, E.T., Jiménez, J.A.
- 149** Bar changes due to storm events using ARGUS: Lido di Dante, Italy
Armaroli, C., Balouin, Y., Ciavola, P., Zanella, M.
- 057** Morphodynamic modelling of a storm event in the Dithmarschen Bight,
Wilkins, J., Escobar A., Riethmüller, R., Mayerle, R.
- 264** Morphodynamic control on extreme coastal drivers
Sánchez-Arcilla, A., Jiménez, J.A.

9:00 11:05 04B Hydrodynamics

Chairman: *Joan Pau Sierra*

- 206** Overtopping, swash, bores, breakers and waves
Peregrine, D.H.
- 098** Measurements of shallow water breaking wave rollers
Haller, M.C., Catalán, P.
- 106** Vertical profile of radiation stresses for 3D nearshore currents model
Nobuoka, H., Roelvink, J.A., Reniers, A.J.H.M., Mimura, N.
- 041** Computation of setup and longshore currents by directional spectral waves
Goda, Y.
- 055** Determination and impact of the characteristic wave period in wave energy
dissipation in the surf zone
Sénéchal, N., Bonneton, P., Dupuis, H., Rey, V.

9:00 11:05 04C Suspended sediment

Chairman: *Vicente Gracia*

- 175** The identify of suspended particles in the coastal water: A multidisciplinary
approach
Huang, Y.-W., Liu, J.T.
- 156** Suspended matter and particle size in the high turbidity zone of the Belgian
coastal area during a gale
Francken, F., Fettweis, M., Van den Eynde, D.
- 152** Effects of different wave conditions on SPM distribution patterns in highly
variable tidal environments
Moghim, S., Gayer, G., Guenther, H., Shafieefar, M.
- 261** Effect of assuming a logarithmic velocity profile near the bottom on computing
tide-residual sediment transport
Zitman, T.J.
- 143** Modeling turbulent mixing in the sea wave bottom boundary layer
Absi, R.

11:30 13:10 05A Remote sensing

Chairman: *James Kaihatu*

- 121** Seasonal effects and the impact of beach morphology on the variability of
water line positions
Kroon, A., Spanhoff, R., Aarninkhof, S.
- 150** Sediment transport pattern and coastal evolution at Lido di Dante beach,
Adriatic Sea
Balouin, Y., Ciavola, P., Armaroli, C.
- 222** Shoreline variability of Barcelona city beaches in response to storms and
artificial nourishment (2001-2003)
Ojeda, E., Guillén, J.
- 233** Video derived observations of estuarine sand bank migration, Teignmouth, UK
Kingston, K.S., Davidson, M.A., Holman, R.A.

Each paper 25 minutes: 20 min. presentation + 5 min.

11:30 13:10 **05B Rythmic features**

Chairman: *Gerben Ruessink*

272 Evolution of beach cusps

Stoker, A., Dodd, N.

184 Generation and nonlinear evolution of nearshore oblique sand bars

Garnier, R., Calvete, D., Caballera, M., Falqués, A.

266 Disymetric behaviour of nearshore crescentic bars on an open coast: Aquitanian coast, France

Castelle, B., Bonneton, P., Butel, R.

127 Large scale coastline dynamics and sand waves

Falqués, A., Calvete, D.

11:30 13:10 **05C Bed-load transport**

Chairman: *Jan Ribberink (pending confirmation)*

128 Hydrodynamics and bedload transport during a tidal cycle on the Kwinte bank (southern North Sea) from coupled ADCP and side-scan sonar measurements

Garel, E., Manso, F., Collins, M.B.

084 Modeling sediment transport in oscillatory boundary layers using a mixture approach

Burdick, G.M., Slinn, D.N.

145 A simple model of oscillatory sheet-flow for graded sands

Malarkey, J., Davies, A.G.

040 Bed-load transport under steady and oscillatory flow

Camenen, B., Larson, M.

15:00 16:40 **06A Long-term morphodynamics**

Chairman: *Steve Pearson (pending confirmation)*

171 Modeling of long-term morphodynamic behavior of sandbanks

van Rijn, L., Walstra, D.-J., Tonnon, P.-K., Boers, M.

026 Long-term evolution of offshore sandbank morphology. Case study: Great Yarmouth sandbanks, U.K.

Horrillo-Caraballo, J.M., Reeve, D.E.

005 Prediction of long term morphological changes in response to a tideland reclamation

Sterlini, P., Chesher, T., Eo, Daesu

198 Factors controlling tidal flat response to sea level rise

Shaw, A.L., Houser, C., Hill, P.R., Lintern, D.G., Costa, M.

15:00 16:40 **06B Breaching and overwash**

Chairman: *Aart Kroon (pending confirmation)*

124 Predicting overwashing and breaching on U.K. coarse-clastic barrier beaches

Cope, S.N.

259 Evolution of Waisanding barrier

Chen, W.J.

104 Berm development and lagoon closure on a gently sloping beach

Weir, F.M., Baldock, T.E., Hughes, M.G.

202 Barrier and delta simulations using a one-line model coupled with overwash

Ashton, A., Murray, A.B.

Each paper 25 minutes: 20 min. presentation + 5 min.

15:00 16:40 **06C Swash**

Chairman: *Rob Holman (pending confirmation)*

- 109** Statistical description of swash motion on a beach during cusp formation
Gorman, R.M., Coco, G.
- 036** Breaker turbulence and sediment resuspension in the swash zone of gently sloping beaches
Aagaard, T., Hughes, M.
- 069** Measurement of groundwater and swash interactions on a sandy beach
Robinson, C., Baldock, T.E., Horn, D.P., Gibbes, B., Hughes, M.G., Nielsen, P., Li, L.
- 042** Infiltration and exfiltration in the swash zone of a steep gravel beach. Implications for morphological change
Austin, M., Masselink, G.

17:00 17:50 **07A Trenches and pits**

Chairman: *Piet Hoekstra*

- 038** Morphodynamics of trenches and pits under the influence of currents and waves: analytical and numerical modelling
Ribberink, J.S., Roos, P.C., Hulscher, S.J.M.H.
- 140** The physical recovery of a former dumping site of dredged material in a dynamic coastal environment
Du Four, I., Van Lancker, V., Deleu, S., Darras, I.

17:00 18:15 **07B Sediment transport modelling**

Chairman: *Yoshimi Goda*

- 018** Field measurements on sediment transport near the shoreline under developed long period waves during a storm
Kuriyama, Y., Shin, S.H., Ueoka, S.
- 009** Significance of low frequency waves in shoreline motion driven by a partially saturated surf zone
Karunaratna, H., Chadwick, A.J.
- 032** Comprehensive comparisons of a two-phase flow model with a wide range of conditions
Liu, H., Sato, S.

17:00 17:50 **07C Wave modelling**

Chairman: *Magnus Larson*

- 230** Spectral model based on Boussinesq equations
Veeramony, J., Kaihatu, J.M.
- 215** Simulation of wave transformation on muddy coasts
Oveysy, A., Soltanpour, M.

Each paper 25 minutes: 20 min. presentation + 5 min.

Wednesday, 6 April

9:00 10:15 **08A Morphodynamics and coastal structures**

Chairman: *Jose A. Jimenez*

- 162** Coastal dynamics around a submerged barrier
Cáceres, I., Alsina, J.M., González, D., Sánchez-Arcilla, A., Sierra, J.P.
- 059** 2D experimental modeling of hydrodynamic effects of submerged breakwaters
Cox, R.J., Tajziehchi, M.
- 110** Breakwater morphological modelling: predicting equilibrium morphologies using entropy based techniques
Nield, J.M., Walker, D.J., Lambert, M.F.

9:00 10:40 **08B Tidal inlets**

Chairman: *Leo van Rijn (pending confirmation)*

- 154** The effect of stratification on the near-field flow and transports in a mixed-energy tide-dominated inlet
Elias, E.P.L., Stive, M.J.F.
- 113** Modeling shoreline erosion and channel migration in a highly dynamic bay entrance: Willapa Bay, WA
Gelfenbaum, G., Lesser, G., Kaminsky, G., Landerman, L.
- 265** A contribution to the understanding of the Óbidos lagoon dynamics
Silva, A., Santos, M., Leitão, P., Neves, R.
- 029** General Methodology with inlet reservoir model analysis for sand management near tidal inlets
Dabees, M.A., Kraus, N.C.

9:00 11:05 **08C Sediment transport**

Chairman: *Jørgen Fredsøe (pending confirmation)*

- 187** Effects of wave shape on cross-shore transport and beach profile change
Hanes, D.M., Haas, K., Elfrink, B., Ruggiero, P.
- 163** Observed suspended sediment profiles under the effect of single and double peaked wave spectra
Delgado Blanco, M.R., Olabarrieta Lizaso, M., Giardino, A., Banasiak, R., Monbaliu, J.
- 196** The role of sediment stratification in cross-shore sediment transport under waves
Conley, D.C.
- 176** Spring and neap controls on the relationship between nearshore current and suspended particles. Implication on the benthic boundary dynamics
Li, C.-N., Liu, J.T.
- 014** Sediment re-suspension and cross-shore cycling in nearshore environments
Kularatne, S.R., Pattiaratchi, C.B.

11:30 13:10 **09A Overwash and breaching**

Chairman: *Abby Sallenger*

- 212** Process-based morphological modeling of a restored barrier island: Whiskey Island, Louisiana, USA
Alfageme, S., Cañizares, R.
- 258** Modeling of storm induced island breaching at the Baltic sea coast
Witting, M., Mewis, P., Zanke, U.
- 053** Numerical modeling of beach profile change caused by overwash
Donnelly, C., Ranasinghe, R., Larson, M.
- 159** A model for breach erosion in clay-dikes
Zhu, Y.-H., Visser, P.J., Vrijling, J.K.

Each paper 25 minutes: 20 min. presentation + 5 min.

11:30 13:10 **09B Sediment transport**

Chairman: *Gerhard Masselink (pending confirmation)*

- 133** Waves and grain-size effects on the morphodynamic evolution of the Teign estuary (UK)
Bernardes, M.E.C., Davidson, M.A., Huntley, D.A., Dyer, K.R., George, K.J.
- 102** Investigating shoreface-lithology effects in a process-based model of coastline change
Valvo, L.M., Murray, A.B., Ashton, A.
- 051** Longshore transport on the Maresme coast (Barcelona)
Guanche, R., González, M., Medina, R.
- 122** Morphodynamic evolution and sediment distribution pattern of a near-coastal dumping site in Belgium
Deleu, S., Van Lancker, V., Francken, F.

11:30 13:10 **09C Coarse/mixed sediments**

Chairman: *Yoshiaki Kuriyama (pending confirmation)*

- 065** Intertidal sand waves on a mixed sediment beach: are they effective wave energy dissipators?
Adams, P., Ruggiero, P.
- 019** A numerical study of coarse-grained beach dynamics
Pedrozo-Acuña, A., Simmonds, D.J., Otta, A.K., Chadwick, A.J.
- 056** The role of flow acceleration on the threshold of motion of coarse particles
Stive, M.J.F., Reniers, A.J.H.M., Verhagen, H.J.
- 050** Measuring cross-shore sediment transport on mixed shingle beaches using GPS survey techniques
Watt, T., Dornbusch, U., Moses, C., Robinson, D.

15:00 16:40 **10A Storm events**

Chairman: *Zbigniew Pruszk*

- 237** Morphological impacts of closely spaced hurricanes Frances and Jeanne (September 2004) on nourishment beaches along the Florida Southeast Coast, USA
Benedet, L., Stive, M., Finkl, C.W., Campbell, T.
- 144** Predicting the response of gravel barrier beaches under extreme wave and water level conditions in Southern England
Bradbury, A.P., Cope, S.N., Prouty, D.
- 200** Integrating field research, modeling and remote sensing to quantify morphodynamics in a high-energy coastal setting, Ocean Beach, San Francisco, California
Barnard, P.L., Hanes, D.M.
- 218** Observed storm surge morphodynamics and implications to numerical modelling schemes
Winter, C., Noormets, R., Ernsten, V., Riethmüller, R.

15:00 16:40 **10B Wave-structures interaction**

Chairman: *Agustin Sanchez-Arcilla*

- 020** Reflection of obliquely incident waves at low-crested structures
Wang, B., van der Meer, J.W., Otta, A.K., Chadwick, A.J.
- 269** Wave reflection effects on wave climate and littoral dynamics in the Algeiras
Carci, E., Rivero, F.
- 049** Simulation of wave overtopping seawall by SPH model
Shao, S., Reeve, D., Chadwick, A., James, P., Graham, D.
- 070** 2D-V hydrodynamics of double floating breakwater
Koftis, Th., Prinos, P.

Each paper 25 minutes: 20 min. presentation + 5 min.

15:00 16:15 **10C Estuaries**

Chairman: *Robert Nicholls (pending confirmation)*

194 The Columbia River Estuary: sediment source or sediment sink? Process-based modeling of sand transport and morphological change at a dynamic river mouth

Lesser, G., Gelfenbaum, G., Moritz, R., Kaminsky, G.

060 Morphodynamics of bars on the ebb delta of a megatidal estuary (Normandy, France)

Robin, N., Levoy, F.

047 Hydrodynamic and morphological evolution in the estuary of river Ulla (Galicia, Spain)

Peña, E., López, F., Puertas, J.

17:00 18:15 **11A Remote sensing**

Chairman: *Jorge Guillen (pending confirmation)*

249 2DH mapping of surf zone bathymetry from video

Aarninkhof, S., Wijnberg, K., Roelvink, D., Reniers, A.

248 Intertidal morphology and wave run-up observations during a storm event with X-band nautical radar

Takewaka, S.

228 An optical system for monitoring seabed evolutions at a coastal structure

Michallet, H., Barbier-Neyret, J.-P., Mory, M., Piedra-Cueva, I.

17:00 18:15 **11B Sediment transport and bedforms**

Chairman: *Masaru Mizuguchi*

151 Suspended sediment dynamics over full-scale ripples in oscillatory flow

van der Werf, J.J., Ribberink, J.S., Doucette, J.S., O'Donoghue, T., Vincent,

160 Measured and predicted suspended sand transport and the effect of bedforms on a sandy shoreface

Grasmeijer, B., Kleinhans, M., Dolphin, T., Vincent, C.

181 Sand transport by waves above rippled beds: Comparison of a 2DHV sand transport model with experiments

Magar, V., Davies, A.G., Malarkey, J.

17:00 17:50 **11C Estuaries and silt**

Chairman: *François Sabatier*

213 Tidal asymmetry influence on sediment dynamics: The Solent Region, UK

Teles, A.P.

073 The dynamics of tidal flat geo-environments in an estuary

Sassa, S., Watabe, Y.

Each paper 25 minutes: 20 min. presentation + 5 min.

Thursday, 7 April

9:00 10:15 **12A Nourishment**

Chairman: *Juan J. Muñoz-Perez*

- 205** Shoreface nourishments: Humps or bars?
Roelvink, D., Reniers, A., Walstra, D.-J., van Ormondt, M.
- 229** Morphodynamic evolution analysis of beaches adjacent to L'Hospitalet marina after a nourishment project
Galofré, J., Medina, R., González, M.
- 262** Nourishment of the slope of a tidal channel. From experiment to practice
Nederbragt, G., Koomans, R.L.

9:00 10:40 **12B Morphodynamic modelling**

Chairman: *Nathaniel Plant*

- 170** Modeling nearshore morphological evolution at seasonal scale
Walstra, D.-J., Ruggiero, P., Lesser, G., Hanes, D., Gelfenbaum, G.
- 252** A hybrid approach for modelling coastal morphology
Zijl, F., van Kessel, T., Roelvink, J.A., Walstra, D.J.R., Aarninkhof, S.G.J., van Koningsveld, M.
- 260** A data-based mechanistic approach to modelling the beach morphological changes at Duck, North Carolina, USA
Gunawardena, Y., Ilic, S., Young, P., Pinkerton, H.
- 058** The quantification of parameter-induced predictive uncertainty in nearshore process models
Ruessink, B.G.

9:00 10:15 **12C Swash**

Chairman: *Howell Peregrine*

- 022** Field observations of instantaneous water slopes in the swash zone
Baldock, T., Hughes, M.
- 044** Velocity skewness in the swash zone of a reflective and dissipative beach. Implications for sediment transport
Masselink, G., Russell, P.
- 076** Sediment transport numerical modelling at the swash zone
Alsina, J.M., Baldock, T.E., Hughes, M.G., Weir, F., Sierra, J.P.

11:30 13:10 **13A Beach profiles**

Chairman: *Dirk-Jan Walstra*

- 182** Laboratory equilibrium beach profiles
Kamalinezhad, M., Michallet, H., Barthélemy, E.
- 002** Investigation of beach profile variability at different scales using a wavelet technique
Li, Y., Lark, M., Reeve, D.E.
- 136** Short term variability of reef protected beach profiles: an analysis using EOF
Muñoz-Pérez, J.J., Medina, R.
- 074** Equilibrium beach profile for refraction-diffraction areas
Requejo, S., Medina, R., González, E.M.

11:30 12:20 **13B Human/climatic induced morphodynamic changes**

Chairman: *Jordi Galofre*

- 165** Evolution of climatic forcing and potentially eroding events on the coast of Northern France
Chaverot, S., Héquette, A., Cohen, O.
- 064** An hydrodynamic field experiment in the Iroise Sea, Porsmilin and Blancs Sablons study beaches
Dehouck, A., Dupuis, H., Amis, G.

Each paper 25 minutes: 20 min. presentation + 5 min.

11:30 12:45 **13C Boundary layers**

Chairman: *Marcel J.F. Stive*

- 123** Effect of wave superposition on flow and sediment transport in a tidal flat region
Escobar, C.A., Mayerle, R.
- 004** A simple numerical model of the coastal wave and current boundary layer
Shi, Z., Lu, L.F., Wu, Y.S.
- 195** Lattice Boltzmann numerical simulation of wave-current interaction inside the wave boundary layer
Cappiotti, L.

15:00 16:40 **14A Protection/nourishment**

Chairman: *Nicholas C. Kraus*

- 010** An assessment of coastal protection measures
Tsanis, I.K., Saied, U.M.
- 137** Shoreface nourishment as a natural laboratory
Spanhoff, R., Kroon, A., de Keijzer, S.
- 239** Optimizing and understanding shoreface nourishments
van Ormondt, M., Walstra, D.-J., van Rijn, L., Roelvink, D., Spanhoff, R.
- 268** Uncertainties in the engineering use of headland-bay beach design guidance
Martino, E., Moreno, L., Kraus, N.C.

15:00 16:15 **14B Large scale morphodynamics**

Chairman: *Dominic Reeve (pending confirmation)*

- 130** Broad-scale analysis of morphological and climate impacts on coastal flood risk
Hall, J., Dawson, R., Walkden, M., Nicholls, R., Brown, I., Watkinson, A.
- 141** A GIS tool for analysis and interpretation of coastal erosion model outputs
Koukoulas, S., Nicholls, R.J., Dickson, M.E., Walkden, M.J., Hall, J.W., Pearson, S.G.
- 066** Numerical modelling of potential climate-change impacts on rates of soft-cliff recession, northeast Norfolk, UK
Dickson, M., Walkden, M., Hall, J., Pearson, S., Rees, J.

15:00 16:40 **14C Morphodynamics (various)**

Chairman: *Merrick Haller*

- 203** Effects of high-energy events on rocky shorelines: history of megaclast emplacement and transport on a shore platform, Oahu, Hawaii
Noormets, R., Crook, K.A.W., Felton, E.A.
- 185** Morphodynamics of beachrock infected beaches: Vatera Beach, Northeastern Mediterranean
Vousdoukas, M., Velegrakis, A.F., Karambas, Th., Valais, G., Zarkoyiannis, S.
- 035** Depth of sand activation on protected and non-protected nourishment beaches: a laboratory study in a large-scale wave flume
Ciavola, P., Nadalini, F., Ardone, V.
- 142** Influence of high water levels on the evolution of an upper beach/dune system, Wissant Bay, Northern France
Ruz, M.-H.

17:00 18:15 **15A Sand waves - sand banks**

Chairman: *Albert Falques (pending confirmation)*

- 243** Modelling sand wave evolution using various sediment transport mechanisms
van der Meer, F.M., Németh, A.A., Hulscher, S.J.M.H.
- 167** The influence of coastal slopes on sandbank morphodynamics
Jones, O.P., Simons, R.R., Harris, J.M.
- 172** Sensitivity of nearshore oblique bar modelling to the description of waves and sediment transport
Ribas, F., de Swart, H.E., Calvete, D., Falqués, A.

Each paper 25 minutes: 20 min. presentation + 5 min.

17:00 18:15 **15B Hydrodynamic measurements**

Chairman: *Dano Roelvink (pending confirmation)*

- 006** PIV analysis of filtered radar images to derive nearshore wave properties and bathymetry at Hazaki, Japan

Ahmed, A.S.M., Takewaka, S.

- 148** PIV measurements of velocities over full-scale ripples in oscillatory flow

O'Donoghue, T., Doucette, J.S., van der Werf, J.J., Ribberink, J.S.

- 197** Laboratory comparison of the Nortek Vectrino and SonTek MicroADV

Lohrmann, A., Maddux, T.B., Cox, D.T., Malzone, C.

17:00 18:15 **15C Sediment transport and grain size**

Chairman: *Howard Southgate (pending confirmation)*

- 236** Towards predicting nearshore grain size

Soltau, C.

- 132** Large-scale correlation of the surficial sediments, morphology, hydrodynamic regime and sediment transport patterns on the Kwinte Bank, a tidal sandbank on the Belgian shelf

Bellec, V., Van Lancker, V., Van den Eynde, D., Fettweis, M., Degrendele, K., Roche, M., Schotte, P.

- 092** Determination of sediment transport paths on a macrotidal shoreface: comparison of the "Gao and Collins" method with near-bed current

Héquette, A., Hemdane, Y., Anthony, E.J.