

1st International Workshop on Waves, Storm Surges and Coastal Hazards

Hilton Hotel Liverpool

Sunday September 10

6:00 - 8:00 p.m. Workshop Registration Desk Open at Hilton Hotel

Monday September 11

7:30 - 8:30 a.m. Workshop Registration Desk Open

8:30 a.m. Welcome and Introduction

Session A: Wave Measurement -1

Chair: Val Swail

A1 *Quantifying Wave Measurement Differences in Historical and Present Wave Buoy Systems*

8:50 a.m. R.E. Jensen, V. Swail, R.H. Bouchard, B. Bradshaw and T.J. Hesser
Presenter: Jensen

A2 *Field Evaluation of the Wave Module for NDBC's New Self-Contained Ocean Observing Payload (SCOOP)*

9:10 a.m. Richard Bouchard
Presenter: Bouchard

A3 *Correcting for Changes in the NDBC Wave Records of the United States*

9:30 a.m. Elizabeth Livermont
Presenter: Livermont

9:50 a.m. Break

Session B: Wave Measurement - 2

Chair: Robert Jensen

B1 *Spectral shape parameters in storm events from different data sources*

10:30 a.m. Anne Karin Magnusson
Presenter: Magnusson

B2 *Open Ocean Storm Waves in the Arctic*

10:50 a.m. Takuji Waseda
Presenter: Waseda

B3 *A project of concrete stabilized spar buoy for monitoring near-shore environment*

11:10 a.m. Sergei I. Badulin, Vladislav V. Vershinin, Andrey G. Zatsepin, Dmitry V. Ivonin, Dmitry G. Levchenko and Alexander G. Ostrovskii
Presenter: Badulin

B4 *Measuring the 'First Five' with HF radar*

11:30 a.m. Lucy R Wyatt
Presenter: Wyatt

B5 ***The use and limitations of satellite remote sensing for the measurement of wind speed and wave height***

11:50 a.m. Ian Young
Presenter: Young

12:10 p.m. Lunch

Session C: Wave Design Criteria

Chair: Oyvind Breivik

C1 ***Wave height and Crest distribution in the North Sea***

1:30 p.m. Børge Kvingedal
Presenter: Kvingedal

C2 ***Estimating the directional spreading within surface water waves***

1:50 p.m. Yannis Karpadakis
Presenter: Karpadakis

C3 ***Derivation of extreme wave and water level extremes using covariate extreme value analysis***

2:10 p.m. Graham Feld
Presenter: Feld

C4 ***Evaluation of design waves considering climate change***

2:30 p.m. P Satyavath, E Roshin, Prerna Bansal, Shreyas Bhat, Pooja Jain and M C Deo
Presenter: Deo

2:50 p.m. Break and Poster Session

Session D: Observations and analysis of wave impacts

Chair: Nadao Kohno

D1 ***Wind Wave Footprint of Tropical Cyclones based on satellite and buoy data***

3:50 p.m. F.J. Méndez, L. Cagigal, A. Rueda and J.A.A. Antolínez
Presenter: Mendez

D2 ***Spatial-Temporal Changes of Ocean Waves Generated by Explosive Cyclones***

4:10 p.m. Yuki Kita
Presenter: Kita

D3 ***Wave predictions from Remotely Sensed Bathymetry in the FRF Coastal Model Test Bed***

4:30 p.m. Spicer Bak
Presenter: Bak

D4 ***Impact of wind waves on the air-sea momentum fluxes for different wind and sea state conditions***

4:50 p.m. Joanna Staneva
Presenter: Staneva

D5 ***Numerical study of the wind waves effect on air-sea fluxes in the Yellow Sea during the cold wave events***

5:10 p.m. Jianhong Wang, Jialin Shi, Chunsheng Miao, Mo Peng and Jianmin Sheng
Presenter: Wang

5:30 p.m. Sessions end for day

6:30 - 10:00 p.m. Icebreaker At The Mersey Maritime Museum

Tuesday September 12

Session E: Storm Surge Modelling

Chair: Joannes Westerink

E1 *Sensitivity of tropical cyclone extremes to surge simulation storm parameter resolution*

8:30 a.m. Jennifer L. Irish, Donald T. Resio and Taylor Asher

Presenter: Irish

E2 *The effect of high resolution modelling on storm surge forecasts*

8:50 a.m. Hans de Vries

Presenter: de Vries

E3 *The effect of global atmospheric model spatial resolution on tropical cyclone storm surge representation*

9:10 a.m. N. Bloemendaal, S. Muis, R. Haarsma, M. Verlaan, H. de Moel, P.Ward and J.C.J.H. Aerts

Presenter: Bloemendaal

E4 *A global prediction system for tides and surges*

9:30 a.m. Tsubasa Kodaira

Presenter: Kodaira

9:50 a.m. Break and Poster Session

Session F: Advances in storm surge forecasting

Chair: Hans de Vries

F1 *Storm surge under varying ice coverages along Alaska's Bering and Chukchi coasts*

10:50 a.m. Joannes J. Westerink, Brian Joyce, Robert Grumbine, Andre van der Westhuysen, Jesse Feyen, William Pringle and Dam Wirasaet

Presenter: Westerink

F2 *The importance of vertical structure to open-coast surges and its incorporation into depth averaged models*

11:10 a.m. Amanda Tritinger

Presenter: Tritinger

F3 *Improving North Sea Storm Surge Forecasting Using Data Assimilation*

11:30 a.m. David Byrne

Presenter: Byrne

F4 *Development and evaluation of storm surge warning system in Taiwan*

11:50 a.m. Mei-Ying Lin

Presenter: Lin

12:10 p.m. Lunch

Session G: Storm Surge Operational Forecasting

Chair: Diana Greenslade

G1 *The UK's next generation operational storm surge forecast*

1:30 p.m. Clare O'Neill

Presenter: O'Neill

G2 *The Next Generation's Storm Surge Prediction System in Japan Meteorological Agency*

1:50 p.m. Hiroshi Hasegawa

Presenter: Hasegawa

G3 *Modeling storm surges with HYCOM (2D) to improve the French warning system*

2:10 p.m. Audrey Pasquet

Presenter: Pasquet

G4 *Forecasting exceedance probabilities of extreme sea level events based on ensemble forecasts*

2:30 p.m. Jani Särkkä, Laura Tuomi and Antti Kangas

Presenter: Särkkä

2:50 p.m. Break and Poster Session

Session H: Coastal hazard forecasting

Chair: Jane Smith

H1 *Combining a process based runup model and meta-models to build a coastal inundation operational forecast for Coral Coast of Fiji*

3:50 p.m. Cyprien Bosserelle, Herve Damlamian, Ana Rueda, Fernando Mendez and Jens Kruger

Presenter: Bosserelle

H2 *Coupling of Wave and Hydrodynamic Models for Predicting Coastal Inundation: A Case study in Jakarta and Semarang*

4:10 p.m. Andri Ramdhani, Andi Eka Sakya, Nelly Florida Riama, Bayu Edo Pratama and Dava Amrina

Presenter: Riama

H3 *Unite in the First Mile to Reach the Last Mile- Coastal Inundation Forecasting Demonstration Project in Bangladesh*

4:30 p.m. SMH Fakhruddin

Presenter: Fakhruddin

H4 *An operational coastal sea level forecasting system*

4:50 p.m. Diana Greenslade

Presenter: Greenslade

H5 *Application of the Coastal Storm Modeling System to the Texas Coast*

5:10 p.m. Chris Massey

Presenter: Massey

5:30 p.m. Sessions end for day

Wednesday September 13

Session I: Wave models and forecasting

Chair: Andrew Saulter

I1 *Applications of the spherical multiple-cell grid in ocean surface wave models*

8:30 a.m. Jian-Guo Li and Andrew Saulter

Presenter: Li

I2 *Evaluation of Unstructured WAVEWATCH III for Nearshore Application*

8:50 a.m. Jane McKee Smith
Presenter: Smith

I3 *Wave forecasting for the Marginal Ice Zone*

9:10 a.m. Erick Rogers

Presenter: Rogers

I4 *On the development of an operational wave forecast system for the Korean East Coast*

9:30 a.m. Sofia Caires, Jinah Kim, Jacco Groeneweg and Jeseon Yoo

Presenter: Caires

I5 *Integrating WaveWatch3 (WW3) into the Oceanweather (OWI) operational forecast system*

9:50 a.m. Alex Crosby

Presenter: Crosby

10:10 a.m. Break

Session J: Wave Forecast 1

Chair: Jean Bidlot

J1 *Development of an ensemble wave forecast system*

10:40 a.m. Stefan Zieger and Diana Greenslade

Presenter: Greenslade

J2 *Long-Range Deterministic and Ensemble Global Wave Prediction Systems*

11:00 a.m. N.B. Bernier, B. Pouliot, S. Peel, P. Pellerin, H. Alves and A. Chawla

Presenter: Bernier

J3 *The upgraded french operational coastal wave model with sea level and surface currents forcings*

11:20 a.m. Alice Dalphinnet

Presenter: Dalphinnet

J4 *Development and Validation of the Regional Wave Prediction System (RWPS)*

11:40 a.m. Roberto Padilla-Hernandez, Arun Chawla, Andre van der Westhuysen, Jeffrey Lewitsky, Craig Mattoks, Mark DeMaria, Hugh Cobb and Douglas Gaer

Presenter: Padilla

J5 *Development and application of the operational marine prediction system at KMA*

12:00 p.m. Hyunmin Eom

Presenter: Eom

12:20 p.m. Lunch

Session K: Wave Forecast 2

Chair: Andrew Cox

K1 *Process and resolution impacts on UK coastal wave predictions from operational global-regional wave models*

1:30 p.m. Andy Saulter

Presenter: Saulter

K2 *New information on crossing waves of JMA*

1:50 p.m. Nadao Kohno

Presenter: Kohno

K3 *The impact of combined assimilation of altimeters data and wave spectra from S-1A and S-1B in the operational model MFWAM*

2:10 p.m. Lotfi Aouf

Presenter: Aouf

K4 *Modelling the Impact of Squall on Wind Waves*

2:30 p.m. Victor Shrira and Sergei Annenkov

Presenter: Shrira

2:50 p.m. Break and Poster Session

Session L: Wave Theory

Chair: Chris Bender

L1 *Evolution of Wave Spectra in Shallow Water*

3:50 p.m. Donald Resio

Presenter: Resio

L2 *Highly Nonlinear Extreme Waves in Currituck Sound: Interpretation in Terms of Highly Dense Breather Turbulence in a Random Wave*

4:10 p.m. Alfred R. Osborne, Donald T. Resio, Andrea Costa, Sonia Ponce de León and Elisabetta Chirivi

Presenter: Osborne

L3 *The Role of Nonlinear Interactions in the Evolution of Wind Wave Spectra at Different Scales*

4:30 p.m. Dorukhan Ardag

Presenter: Ardag

L4 *Quantification of the role of quadruplet interactions on wave model performance*

4:50 p.m. Gerbrant Van Vledder

Presenter: Van Vledder

5:10 p.m. Sessions end for day

7:00 p.m. Banquet at the Royal Liver Building

Thursday September 14

Session M: Storm Surge Climate

Chair: Kevin Horsburgh

M1 *Estimating past and recent extreme wave and surge conditions in the southwestern Baltic Sea.*

8:30 a.m. Nikolaus Groll, Lidia Gaslikova and Ralf Weisse

Presenter: Groll

N2 *Contribution of external surges to the water levels in South-Eastern North Sea.*

8:50 a.m. L. Gaslikova, I. Grabemann and R. Weisse

Presenter: Gaslikova

N3 *Assessing extreme sea levels due to tropical cyclones in the Atlantic basin*

9:10 a.m. Sanne Muis, Ning Lin, Martin Verlaan, Hessel C. Winsemius, Philip J.Ward and Jeroen C.J.H.

Aerts

Presenter: Muis

N4 *Assessing Storm Tide Hazard for the North-West Coast of Australia using an Integrated High-Resolution Model System*

9:30 a.m. Jim Churchill

Presenter: Churchill

N5 ***Ocean-atmosphere coupled modelling for storm surge risk assessment in Bangladesh***

9:50 a.m. Nabir Mamnun

Presenter: Mamnun

10:10 a.m. Break

Session N: Storm surge case studies in a changing climate

Chair: Don Resio

N1 ***Simulations of Hurricane Matthew Water Levels and Waves; Comparisons to Measurements and Examination of Shifted Tracks***

10:40 a.m. Christopher Bender

Presenter: Bender

N2 ***An integrated multiscale model system for coastal flooding forecasts at Northeastern United States***

11:00 a.m. Dongmei Xie, Qingping Zou, Anthony Mignone and John Cannon

Presenter: Zou

N3 ***Storm surge hindcasting using a fully coupled model of surge and wave - Case study of Typhoon Haiyan storm surge***

11:20 a.m. Sooyoul Kim

Presenter: Kim

N4 ***Long-Term Impact Assessment of Storm Surge based on Japanese Mega-Ensemble Projection (d4PDF) using 60 km AGCM***

11:40 a.m. Nobuhito Mori

Presenter: Mori

N5 ***Future Change Storm Surge based on Multi-Scenario and Multi-Regional Climate Model Ensemble Experiments***

12:00 p.m. Junichi Ninomiya

Presenter: Ninomiya

12:20 p.m. Lunch

Session O: Climate change and coastal flood risk

Chair: Nobuhito Mori

O1 ***Science-based tools for coastal adaptation to rising sea level***

1:30 p.m. Jenny Brown

Presenter: Brown

O2 ***Predicting present and future coastal flood risk: north east Wales case study***

1:50 p.m. Fay Fishford

Presenter: Fishford

O3 ***Statistical approaches to assess climate change coastal impacts***

2:10 p.m. P. Camus, C. Izaguirre, A. Tomás, I. Losada, M. Menéndez and J. Pérez

Presenter: Camus

O4 ***A Coastal Storm Modeling System (CoSMoS) for determination of flood hazards along a high energy coast in response to sea level rise***

2:30 p.m. Li Erikson

Presenter: Erikson

O5 *Extreme coastal wave energy fluxes: projected global changes*

2:50 p.m. Lorenzo Mentaschi

Presenter: Mentaschi

3:10 p.m. Break

Session Q: Extreme water levels at the coast

Chair: Jennifer Irish

Q1 *Lessons learnt from examining 100 years of coastal flood events around the UK*

3:30 p.m. Ivan Haigh

Presenter: Haigh

Q2 *A multivariate statistical retrospective of a number of high-impact coastal storm events in the southern hemisphere*

3:50 p.m. Ron Hoeke

Presenter: Hoeke

Q3 *Sensitivity of dynamically coupled wave-tide modelling to spatial resolution*

4:10 p.m. Matt Lewis

Presenter: Lewis

Q4 *Spatial variability in extreme water levels in a hypertidal estuary*

4:30 p.m. Charlotte Lyddon

Presenter: Lyddon

Q5 *Meteotsunami solibores and lone solitons on Atchafalaya shelf, Louisiana*

4:50 p.m. Alex Sheremet

Presenter: Sheremet

Q6 *Towards understanding and operational early warning of the Adriatic meteotsunamis: Project MESSI*

5:10 p.m. Ivica Vilibic

Presenter: Vilibic

5:30 p.m. Sessions end for day

Friday September 15

Session R: Wave Hindcast

Chair: Fernando Mendez

R1 *A consistent Climate Forecast System Reanalysis wave hindcast*

8:30 a.m. Justin Stopa

Presenter: Stopa

R2 *NORA10EI: Toward a very high-resolution atmospheric and wave hindcast archive for the Nordic Seas*

8:50 a.m. Oyvind Breivik

Presenter: Breivik

R3 *The GOW2 global wave dataset for coastal applications*

9:10 a.m. Melisa Menendez

Presenter: Menendez

R4 *Model optimisation with the cylc workflow engine: application to wave hindcast calibration*

9:30 p.m. Richard Gorman

Presenter: Gorman

R5 *Comparison of directional wave spectrum hindcast to the buoy data measured near the typhoon path*

9:50 a.m. Taerim Kim

Presenter: Kim

10:10 a.m. Break

Session S: Wave Climate

Chair: Xiaolan Wang

S1 *Global Ocean Wave Statistics from VOS data: a new dynamical dataset and associated atlas*

10:40 a.m. Victoria Grigorieva

Presenter: Grigorieva

S2 *New Zealand wave climate variability based on weather patterns*

11:00 a.m. Ana Rueda, Laura Cagigal, Jose A. A. Antolínez, Giovanni Coco, Joao Albuquerque and Fernando Méndez

Presenter: Rueda

S3 *Storm clustering in the Mediterranean Sea*

11:20 a.m. Giovanni Besio

Presenter: Besio

S4 *Spatial characterization of wave storms at the NW Mediterranean Sea*

11:40 a.m. Agustín Sánchez-Arcilla

Presenter: Sánchez-Arcilla

S5 *The Status of COWCLIP – Achievements to date and what's still required*

12:00 p.m. Mark Hemer, Xiaolan Wang and The COWCLIP group

Presenter: Hemer

12:20 p.m. Lunch

Session T: Wave Climate Change

Chair: Mark Hemer

T1 *Possible future regional wave climate in the Arctic Ocean*

1:30 p.m. Mercè Casas-Prat, Xiaolan L. Wang and Neil Swart

Presenter: Wang

T2 *Identifying the most extreme storms for wave impact on the UK coast*

1:50 p.m. Judith Wolf

Presenter: Wolf

T3 *Changes in extreme wave conditions of North West Europe, in response to high-end climate scenarios*

2:10 p.m. Lucy Bricheno and Judith Wolf

Presenter: Bricheno

T4 *Mid Twenty-First Century Wave Climate Changes in the North Atlantic*

2:30 p.m. Gil Lemos, Alvaro Semedo, Mikhail Dobrynin, Arno Behrens, Joanna Staneva and Pedro Miranda

Presenter: Lemos

T5 *Evaluation of a CMIP5 Derived Single-Model, Single-Forcing and Single-Scenario Dynamical Global Wave Climate Model Ensemble*

2:50 p.m. Alvaro Semedo, Gil Lemos, Mikhail Dobrynin, Justin Stopa, Arno Behrens, Hylke de Vries, Joanna

Staneva, Andreas Sterl, Mark Hemer, Jean-Raymond Bidlot, Øyvind Breivik and Pedro Miranda
Presenter: Semedo

T6 *Long term impacts of ocean wave-dependent roughness on climate systems by coupled atmospheric global climate-wave model*

3:10 p.m. Tomoya Shimura
Presenter: Shimura

3:30 p.m. Closing Remarks

3:50 p.m. Workshop Ends

Session P: Posters - sessions Monday, Tuesday, Wednesday

P1 *An assessment of wave climate variability based on ERA20-CM and an EC-Earth (CMIP5) forced WAM ensemble*

Ole Johan Aarnes
Presenter: Aarnes

P2 *The waves at the Mulberry Harbours in the Second World War*

Thomas Adcock
Presenter: Adcock

P3 *Multiscale climate-based hybrid modelling of integrated beach erosion and flooding events*

J. A. A. Antolínez, A. Rueda, D. Anderson, N. Cohn, F. J. Méndez and P. Ruggiero
Presenter: Antolinez

P4 *Wave height variability at scales under 100 km: the dominance of wave-current interactions*

Fabrice Ardhuin
Presenter: Ardhuin

P5 *Wave and Storm Surge Forecasting System for Indian Ocean Region*

T M Balakrishnan Nair, P. G. Remya, PLN Murty, K. G. Sandhya, R. Harikumar and P. Sirisha
Presenter: Balakrishnan Nair

P7 *CDIP Wave Observations During Hurricane Matthew*

James Behrens
Presenter: Behrens

P8 *ECMWF ERA-5 wave data*

Jean Bidlot
Presenter: Bidlot

P9 *Case of violent Central Adriatic windstorms: Southerly winds vs. famous Bora*

Kata Botica
Presenter: Botica

P10 *Comparison of present-climate global Stokes drift and projected changes*

Ana Carrasco, Alvaro Semedo, Arno Behrens, Ralf Weisse, Øyvind Breivik, Øyvind Saetra and Kai Håkon Christensen
Presenter: Carrasco

P11 *The Adriatic meteotsunami early warning system: modelling component*

Clea Denamiel
Presenter: Denamiel

P12 *On Magnitude and Frequency: The Winter 2013/14 and 2015/16 Short-Term Wave Climate and Beach Response along the English Channel*

Travis Mason and Thomas Dhoop
Presenter: Dhoop

P13 *Waves and currents in the Southern Ocean*

Tom Durrant, Peter McComb, Henrique Rapizo and Rafael Guedes

Presenter: Durrant

P14 *On the prediction of rogue waves during the extreme seas of Hurricane Joaquin*

Francesco Fedele

Presenter: Fedele

P15 *Application of ensemble 4DVAR data assimilation for wave field reconstruction from time series data*

Wataru Fujimoto

Presenter: Fujimoto

P16 *Observing and simulating the wave conditions in Sulafjord for the E39 project of the Norwegian Public Roads Administration*

Birgitte Rugaard Furevik, Ole Johan Aarnes, Lasse Lønseth, Hálf dán Ágústsson, Øyvind Byrkjedal and Kjeller Vindteknikk

Presenter: Furevik

P17 *Coastal flooding in Rovinj: the case of February 10th 2016*

Lidija Fustar

Presenter: Fustar

P18 *Calibration WAVEWATCH III source term parameters in Bohai Sea*

Zhiyi Gao

Presenter: Gao

P19 *A step forward in the implementation of natural solutions for coastal protection in the Chesapeake Bay*

Juan Luis Garzon Hervas

Presenter: Garzon Hervas

P20 *Swell forecasting in the southern North Sea*

Caroline Gautier, Gerbrant van Vledder, Marcel Zijlema and Jacco Groeneweg

Presenter: Gautier

P21 *Wind waves parameters of the Black Sea based on various modelling experiments*

Fedor Gippius

Presenter: Gippius

P22 *Optimising the Australian Wave Observation Network*

Diana Greenslade

Presenter: Greenslade

P23 *A global skill assessment of spectral reconstructions from partitioned parameters*

Mark Hemer

Presenter: Hemer

P24 *Future climate projections for coastal stressors in Australia: sea-level, storm-surge and waves*

Mark Hemer

Presenter: Hemer

P25 *Wave Information Study Evaluation of Atlantic Hurricanes*

Tyler Hesser

Presenter: Hesser

P26 *Multimodal sea state partitioning into groups of common meteorological genesis*

Sander Hulst, Gerbrant van Vledder and Peter Groenewoud

Presenter: Hulst

P27 *Coastal currents modeling using coupled ocean-wave model considering wave-current interaction on random waves*

Yuki Imai

Presenter: Imai

P28 *Effect of regional-scale coastal resolution on global estimates of tidal energy dissipation*

- Maialen Irazoqui Apecechea and Martin Verlaan
Presenter: Irazoqui Apecechea
- P29** *Wave energy extraction in the Northeast Atlantic: Future wave climate availability*
Jelena Janjic
Presenter: Janjic
- P30** *The North Sea 1200 Year Wave Study (NS1200): A Climate Modelling Approach to Setting Offshore Design Criteria*
Oliver Jones
Presenter: Jones
- P31** *Spatio-temporal wave climate using nested numerical wave modeling in the northern Indian Ocean*
Bahareh Kamranzad
Presenter: Kamranzad
- P32** *DAMS (Disaster Adaptation to Mitigate Storm Surge) – an economic and social analysis to resilient framework development*
Anitha Karthik
Presenter: Karthik
- P33** *The Vulnerability of Indonesia’s Indian Ocean Territory to Storm Swell and Sea-Level Rise*
Jaya Kelvin
Presenter: Kelvin
- P34** *Effects of the wave-induced forcing on a circulation model of the North and Baltic Sea*
Oliver Krueger
Presenter: Krueger
- P35** *The US COASTAL Act*
Nicole P. Kurkowski and Hendrik L. Tolman
Presenter: Kurkowski
- P36** *Illustration of wave-related effects on the ocean from local to global scales*
Stephane Law Chune
Presenter: Law Chune
- P37** *Storm surge modelling with adaptive mesh refinement (AMR): A case study of Typhoon Haiyan*
Han Soo Lee
Presenter: Lee
- P38** *Storm surge forecast and mitigation in China*
Liu Qiuxing and Dong Jianxi
Presenter: Liu
- P39** *The CMEMS IBI-MFC Wave Forecasting system: a new operational Copernicus-Marine Environment Monitoring Service in the IBI area*
C. Toledano, E. Barrera, R. Rainaud, A. Dalphinnet, L. Aouf, A. Amo-Baladrón, P. Lorente, P. Rey, M. Alfonso, J.M. García Valdecasas, M.G. Sotillo and E. Álvarez Fanjul
Presenter: Lozano
- P40** *U.S. Army Corps of Engineer’s Operational Nearshore Wave Modeling: Bridging the Gap between Deep-Water and High-Fidelity Numerical Models*
Matt Malej
Presenter: Malej
- P41** *Effects of spectral nudging in WRF on wind wave simulations in WAVEWATCH III*
Margarita Markina
Presenter: Markina
- P42** *Longshore currents: from shear to hydrodynamic formulation*
Angel Martinez Ferrer
Presenter: Martinez Ferrer

- P43** *Evaluation of the MMD-JMA-MRI-III wave model using multiple model wind forcings*
Mat Kamaruzaman
Presenter: Mat Kamaruzaman
- P44** *Climate variability of sea surface dynamics in Santa Catarina, Brazil*
M. Menéndez, P. Camus, A. Acevedo, A. Espejo, A. Cid, A. Toimil and I. J. Losada
Presenter: Menendez
- P45** *Estimating extreme water level events in the South-western Baltic Sea by means of statistical downscaling*
Elke Meyer
Presenter: Meyer
- P46** *Mud effects on wave propagation over the French Guiana coast*
Héloïse Michaud, Céline Jacq, Olivier Morio, Erwan Gensac, Caroline Bru, Sophie Casitas and Audrey Pasquet
Presenter: Michaud
- P47** *Variability in the wave energy resource and potential power production on Australia's southeast coast*
Joao Morim do Nascimento
Presenter: Morim do Nascimento
- P48** *The wave-current interaction in the Gulf of Mexico: an assessment of the coupled system COAWST*
Aimie Moulin
Presenter: Moulin
- P49** *Canadian Coastal Flood Risk Assessment Guidelines for Improved Climate Resilience*
Enda Murphy
Presenter: Murphy
- P50** *Effects of the wave-current interaction on the dynamics of the upper ocean layer under strong wind conditions*
Pedro Osuna
Presenter: Osuna
- P51** *Long wave runoff on the coasts of narrow bays*
Efim Pelinovsky
Presenter: Pelinovsky
- P52** *On another concept of Hasselmann equation source terms*
Vladimir Zakharov, Don Resio and Andrei Pushkarev
Presenter: Pushkarev
- P53** *Quantifying the Role of Natural and Nature-Based Features in Coastal Resilience with Sea Level Rise and Marsh Migration*
Ali Mohammad Rezaie
Presenter: Rezaie
- P54** *Assessment of the Mexican coastal wave energy distribution*
Jose-Antonio Salinas
Presenter: Salinas
- P55** *Errors and limits for high resolution simulations in coastal areas*
Agustín Sánchez-Arcilla, Elena Pallarés, Andrew Saulter, Jian-Guo Li and Manuel Espino
Presenter: Sanchez-Arcilla
- P56** *Performance appraisal of high resolution regional model*
Mutiat Sholademi
Presenter: Sholademi
- P57** *Intense soliton-like groups in laboratory experiments and numerical simulations*
Alexey Slunyaev
Presenter: Slunyaev

- P58** *CIMP5 derived dynamical global wave climate simulations versus altimeter observation*
Justin Stopa
Presenter: Stopa
- P59** *Wave data available in the Copernicus Service In Situ TAC*
Stéphane Tarot
Presenter: Tarot
- P60** *Rogue waves in the southern North Sea*
Ina Teutsch
Presenter: Teutsch
- P61** *The US NWS Strategic Modeling Plans*
Hendrik L. Tolman
Presenter: Tolman
- P62** *Multivariate extreme value modelling of waves, winds and sea levels*
Nigel Tozer
Presenter: Tozer
- P63** *Forecasting high and extreme sea states in the Baltic Sea*
Laura Tuomi
Presenter: Tuomi
- P64** *The set-down and set-up of directionally spread surface gravity wave groups*
Ton S. van den Bremer
Presenter: van den Bremer
- P65** *Operational Storm Surge Forecast Systems Development at the United States National Ocean Service*
Sergey Vinogradov, Edward Myers, Yuji Funakoshi, Jaime Calzada-Marrero and Saeed Moghimi
Presenter: Vinogradov
- P66** *Characterising extreme sea state severity using absolute spatial dependence*
Ryota Wada
Presenter: Wada
- P67** *Prediction of Beach Recovery Processes at the USACE Field Research Facility Duck, NC*
Nikole Ward
Presenter: Ward
- P68** *Modelling storm surges with multi-scale finite element methods*
Simon Warder
Presenter: Warder
- P69** *Ocean wave forecasting system for the Northern Sea Route*
Adrean Webb
Presenter: Webb
- P70** *Storm surges in the western Baltic Sea*
Ralf Weisse
Presenter: Weisse
- P71** *Current Impacts on Wave Climate along the Sheltered Coasts of Barbados*
Derek Williamson
Presenter: Williamson
- P72** *North Sea response to the impact of large-scale tidal dynamics*
Xing Yi, Elke Meyer and Ralf Weisse
Presenter: Yi
- P73** *A case study of using the multi-model ensemble of wave forecasts*
A. Zhong, Lixin Qi, Robert Greenwood and Neal Moodie
Presenter: Zhong