

# Sea Level Futures Conference

2 – 4 July 2018  
Liverpool, UK



# Sea Level Futures Conference

## 2 – 4 July 2018 Liverpool

### Monday 2 July 2018

|       |  |                            |   |
|-------|--|----------------------------|---|
| 09:00 | <b>EURO-GOOS</b>                             | Doodson Room NOC Liverpool |   |
| 16:00 | <b>ECRA meeting</b>                          | Library Room NOC Liverpool |   |
| 18:00 | <b>Registration and Icebreaker Reception</b> | Foresight Centre           | Including Time and Tide exhibition at NOC Liverpool |

### Tuesday 3 July 2018

|       |                                      |  |   |
|-------|--------------------------------------|--|---|
| 08:00 | <b>Registration and Refreshments</b> | <b>Atrium &amp; Foyer Central Teaching HUB</b> |   |
| 08:30 | <b>Housekeeping</b>                  | <b>Chadwick Lecture, Central Teaching HUB</b>  |   |
| 08:35 | <b>Welcome</b>                       | Doug Mair                                      |   |
| 08:45 | <b>Introduction from PSMSL</b>       | Lesley Rickards                                |   |
| 09:00 | <b>Keynote</b>                       | Begoña Pérez Gómez                             | Challenges of present day tide gauge observing systems  |
| 09:30 | <b>Talk</b>                          | Mike Osborne                                   | Reasons to combine operational and long-term measurements of sea level  |
| 09:50 | <b>Talk</b>                          | Nigel Penna                                    | Measuring sea surface height with a GNSS Wave Glider  |
| 10:10 | <b>Talk</b>                          | Chris Banks                                    | Out of the Freezer: Scientific Altimetry Studies using CryoSat-2 in the Global Ocean                                    |
| 10:30 | <b>Posters A and Refreshments</b>    | <b>Atrium &amp; G Flex Space Teaching HUB</b>  |   |
| 11:30 | <b>Keynote</b>                       | Richard Greatbatch                             | Interannual sea level variability in the tropical Pacific from 1961-2014 derived using a multi-mode linear model system |
| 12:00 | <b>Talk</b>                          | Anthony Wise                                   | Connecting the open ocean and coastal sea level along western boundaries, why bathymetry matters.                       |
| 12:20 | <b>Talk</b>                          | Jorge Zavala-Hidalgo                           | Reviewing the seasonal sea level variability of the Gulf of Mexico  |
| 12:40 | <b>Talk</b>                          | Chris Hughes                                   | The global coastal mean dynamic topography from tide gauges   |
| 13:00 | <b>Lunch</b>                         | <b>Atrium &amp; Foyer Central Teaching HUB</b> |   |
| 14:00 | <b>Keynote</b>                       | Benoit Meyssignac                              | Climate model simulations of the 20th century sea-level changes compared to observations.                               |

|       |                             |   |   |
|-------|-----------------------------|---|---|
| 14:30 | Talk                        | Mohammad Hadi Bordbar                         | Contribution of internal variability to the dynamic sea level changes in the tropical Pacific during the recent decades |
| 14:50 | Talk                        | Miguel Esteban                                | How to adapt to sea level rise: Lessons from cities and islands experiencing land subsidence                            |
| 15:10 | Posters B with Refreshments | <b>Atrium &amp; G Flex Space Teaching HUB</b> |   |
| 16:00 | Talk                        | Sam Royston                                   | Steric sea-level trends in the Argo epoch: First results from an integrated, spatial sea-level budget assessment        |
| 16:20 | Talk                        | Jennifer Hornsby                              | Coastal Flood Boundary update 2018  |
| 16:40 | Talk                        | Jeremy Rohmer                                 | Addressing ambiguity in probabilistic assessments of future marine flooding using possibility distributions             |
| 17:00 | Keynote                     | Jérôme Benveniste                             | ESA's Earth Observation in Support of the Marine Environment  |
| 17:30 | Finish                      |   |   |
| 19:00 | Conference dinner           | <b>Mercure Atlantic Tower</b>                 |   |

## Wednesday 4 July 2018

|       |                             |   |   |
|-------|-----------------------------|---|---|
| 08:55 | Housekeeping                | <b>Chadwick Lecture, Central Teaching HUB</b> |   |
| 09:00 | Keynote                     | Anny Cazenave                                 | The 25-yr-long sea level record from satellite altimetry: Lessons learned, remaining gaps, new scientific questions |
| 09:30 | Talk                        | Jonathan Bamber                               | The land ice contribution to sea level during the satellite era   |
| 09:50 | Talk                        | Gary Mitchum                                  | Coastal versus Open Ocean Sea Level Trends – A Revisit  |
| 10:10 | Talk                        | Francisco Calafat                             | Coherent modulation of the sea-level annual cycle in the United States by Atlantic Rossby waves                     |
| 10:30 | Posters C with Refreshments | <b>Atrium &amp; G Flex Space Teaching HUB</b> |   |
| 11:30 | Keynote                     | Sönke Dangendorf                              | Progress in reconstructing global and regional sea level changes  |
| 12:00 | Talk                        | Maialen Irazoqui Apecechea                    | Global modelling of future extreme sea-levels using a high-resolution Global Tide and Surge Model                   |
| 12:20 | Talk                        | Gerard McCarthy                               | Vulnerability of Dublin Bay to Extreme High Water Levels  |
| 12:40 | Talk                        | Thomas Prime                                  | Relocatable storm surge forecasting for predicting extreme sea levels in coastal areas                              |

13:00 Lunch

Atrium & Foyer Central  
Teaching HUB

14:00 Keynote

Stefano Vignudelli

Coastal Sea level monitoring using satellite radar altimetry: a decade of progress and beyond

14:30 Discussion

Chair Kevin Horsburgh

15:10 Posters D with Refreshments

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Teaching HUB

16:00 Talk

Ivan Haigh

Projecting sea-level rise changes out to 2300 for Paris Agreement commitments

16:20 Talk

Ma. Laurice Preciado Jamero

In-situ adaptation can enable relocation

16:40 Talk

Alexandra Toimil

A probabilistic framework for the assessment of coastal impacts

17:00 Keynote

Mark Merrifield

Subseasonal to seasonal forecasts of coastal sea level

17:30 Closing remarks

Sveta Jevrejeva

18:00 Finish

**Thursday 5 – Friday**

**6 July**

Tidal analysis training course

Doodson Room NOC Liverpool