



# Symposium programme

Version 26 April 2019

## Day 0 Sunday, 5 May 2019

- 18:00 – 20:00**    **Registration**
- Poster set-up
  - Booth set up
  - Potential small mixer

**21:00**    **End of day 0**

### Comments:

Registration should be opened on Sunday night for 2 hours, for people to get familiar with the location and meet colleagues.

## Day 1 **Monday, 6 May 2019**

Session chairs: Fraser Davidson and Eric Chassignet

- 8:00 – 9:00 Registration and poster set-up  
9:00 – 9:10 Welcome and overview  
9:10 – 9:15 **Sponsor introductions – CMEMS & Mercator Ocean International**

### Plenary talks (40 min slots; includes talk(s) and Q&A)

9:15 – 10:00 **GODAE OceanView achievements and future outlook → OceanPredict**  
(40 min: Talk + Q&A) – **Pierre Bahurel, Mercator Ocean International**

10:00 – 10:30 **Break**

10:30 – 11:15 **Operational Oceanography and GOV: Past, present, and future**  
(45min: Talk + Q&A) – **Michel Jean (WMO) and Nadia Pinardi (UniBo)**

11:15 – 12:00 **Observations for Ocean Prediction**  
(45 min: Talk + Q&A) – **Pierre-Yves Le Traon (Mercator Ocean International) and Katy Hill (GCOS-GOOS, WMO)**

12:00 – 12:15 **Group Photo**

12:15 – 13:15 **Lunch**

### Splinter sessions DAY 1: Two blocks: A, B of 4 parallel sessions @ 1.75 hours each

13:15 – 15:00 **Splinter session A (4 parallel sessions – 7 talks each)**  
1.1: Operational Oceanography: Past, Present and Future  
2.1: Observations in the subpolar and arctic oceans  
3.1: Forecasts and nowcasts from models of ocean, atmosphere, and ice I  
5.1: Ocean reanalysis and applications  
**12 min science presentations + 3 min Q&A**

15:00 – 15:30 **Break**

15:30 – 17:15 **Splinter session B (4 parallel sessions – 7 talks each)**  
6.3 (special): TBC  
2.2: New Observation and data processing methods  
3.2: Forecasts and nowcasts from models of ocean, atmosphere, and ice II  
5.2: Biogeochemical, waves and storm surge  
**12 min science presentations + 3 min Q&A**

17:15 – 19:00 **Poster/ Booth session – **Late afternoon icebreaker:** drink and heavy hors d'oeuvres**

19:00 **End of day 1**

## Day 2

Session chairs: Fraser Davidson and PN Vinayachandran

8:30 – 8:55 Late registration and poster set-up

8:55 – 9:00 Sponsor introductions - MEOPAR

### Plenary talks (45 min slots; includes talk(s) and Q&A)

9:00 – 9:45 **Numerical Modelling**  
(45min: Talk + Q&A) – **Katja Fennel (DAL)** and **Eric Chassignet (FSU)**

9:45 – 10:30 **Data Assimilation**  
(45 min: Talk + Q&A) – **Andy Moore (UCSC)** and **Stefano Ciavatta (PML)**

10:30 – 11:00 Break

### Splinter sessions DAY 2: Three blocks C, D, E of 4 parallel sessions @ 1.5 hours each

11:00 – 12:30 **Splinter session C (4 parallel sessions – 6 talks each)**  
2.3: Capturing global/basin scale ocean variations through observation and data assimilation  
3.3: Biogeochemical and ecological applications  
4.1: Variational, ensemble and hybrid methods in ocean data assimilation I  
5.3: Global and Regional prediction Systems I

12 min science presentations + 3 min Q&A

12:30 – 13:30 Lunch

13:30 – 15:00 **Splinter session D (4 parallel sessions – 6 talks each)**  
2.4: To enhance collaboration between observational communities and OceanPredict (Contribution to OceanObs'19)  
3.4: Applications and advances in simulating sea ice  
4.2: Variational, ensemble and hybrid methods in ocean data assimilation II  
5.4: Global and Regional prediction Systems II

12 min science presentations + 3 min Q&A

15:00 – 15:30 Break

15:30 – 17:00 **Splinter session E (4 parallel sessions – 6 talks each)**  
3.5: Small scales  
4.3: Coastal/regional data assimilation and observation impact (7 talks)  
5.5: Global and Regional prediction Systems II  
6.1: Oil spill and drift modelling

12 min science presentations + 3 min Q&A

**17:00 – 19:00**    **Poster/ Booth session + drinks**

**19:30**            **Evening Function at Murphy's on the water**  
**Buffet Dinner & Entertainment**

**22:00**            **End of day 2**

## Day 3

Applications/users/systems/stakeholders

**Session chair:** Eric Chassignet and Andreas Schiller

**08:00 – 08:55** Meeting room open

**08:55 – 09:00** Sponsor introductions – DFO/ ECCC

**Plenary talks (45 min slots; includes talk(s) and Q&A)**

**9:00 – 9:45** **Ocean Prediction Systems and Services**  
(45 min: Talk + Q&A) – **Byoung-Ju Choi (Chonnam University) and Gregg Jacobs (NRL)**

**9:45 – 10:30** **User applications and Societal Benefit**  
(45 min: Talk + Q&A) – **Genevieve Bechard (DFO)**

**10:30 – 11:00** **Break**

**Splinter sessions DAY 3: One blocks (F) of 4 parallel sessions @ 1.5 hours each**

**11:00 – 12:30** **Splinter session D (4 parallel sessions – 6 talks each)**  
3.6: Other advances in numerical ocean modelling  
4.4: Biogeochemical and coupled ocean-atmosphere data assimilation  
5.6: Verification  
6.2: Other applications: navigation, acoustics, storm surges, ecosystems

12 min science presentations + 3 min Q&A

**12:30 – 13:30** **Lunch**

**Panel / Town hall discussions**

**13:30 – 14:30** **Plenary discussion panel 1 (5 panel members) – “Enablement and evolution of Ocean/Environmental Prediction and End use”**  
– chaired by Andreas Schiller  
Topic 1.1 **Operational Oceanography and end users** (13:30 – 14:00)  
Topic 1.2 **International Research, Development, Operations coordination: standards** (14:00 – 14:30)

**14:30 – 15:30** **Plenary discussion panel 2 (5 panel members) – “Evolution of Ocean Prediction in the next decade – needs and opportunities”** – chaired by Eric Chassignet  
Topic 2.1 **Ocean observations and Operational Oceanography** (14:30 – 15:00)  
Topic 2.2 **How best to support oceanographically evolution towards seamless prediction** (15:00 – 15:30)

**15:30 – 15:40**     **Short introduction of day 4 activities (co-chairs)**

**15:40 – 17:00**     **Poster/ Booth session & coffee break**

Small side meetings planned during the poster/booth session – further info to be provided.

**17:00**             **End of Symposium Part 1**

## Day 4

### Forum / training / outreach

**08:00 – 09:00**      **Meeting room open**  
Hosts / greeters will be around to ensure people go to right session

### Discussion and training sessions

**9:00 – 10:30**      **Parallel events:** Forum/ discussion/ training

Forum	Training sessions	
Room numbers tbc	Room numbers tbc	
<b>International Partnerships in Operational Oceanography</b>	<b>CMEMS (Copernicus Marine Services) Training</b>	<b>Data Assimilation Training session</b>
<p><b>Discussion</b> on how best to frame OceanPredict in OO context. How to ensure good collaboration / knowledge exchange between GOOS/ETOOFs/ Ocean Predict/ Blue Planet</p> <p><i>Implications of Seamless approach by WMO and JCOMM evolution</i></p> <p><i>Expected Attendees: Members of WMO, IOC, JCOMM, GOVST, observation groups.</i></p>	<p><b>9:10- 9:30</b> Introduction to the Copernicus Marine Service (L. Crosnier, Mercator Ocean)</p> <p><b>9:30- 10:10</b> Which ocean parameters are available? (L. Crosnier, Mercator Ocean)</p> <p><b>10:10-10:30</b> Example of use (L. Crosnier, Mercator Ocean)</p>	<p><b>09:00 – 09:30</b> Introduction to data assimilation methods [Laurent Bertino]</p> <p><b>09:30 – 10:00</b> Observations used for assimilation. [Stéphanie Guinehut]</p> <p><b>10:00 – 10:30</b> Global physical ocean data assimilation [Matt Martin]</p>

**10:20/10:30 - 11:00** Break

**11:00-12:30**      **Parallel events:** Forum/ discussion/ training

Forum	Training sessions	
Room numbers tbc	Room numbers tbc	

<b>Improving Linkages between Operational Oceanography and Industry</b>	<b>CMEMS (Copernicus Marine Services) Training</b>	<b>Data Assimilation Training session</b>
<p><i>General overview Industry and Ocean Prediction Perspectives.</i></p> <p><b>Discussion</b> on how to improve linkages</p>	<p><b>11:00-11:30</b> How to register, download data and browse catalogue (D. Bazin, Mercator Ocean)</p> <p><b>11:30-12:15</b> Hands-on session: ask your question : around a computer, browse the catalogue, view data, register, and start downloading data (D. Bazin, Mercator Ocean)</p> <p><b>12:15 -12:30</b> Free time</p>	<p><b>11:00 – 11:30</b> Coastal and shelf-seas physical data assimilation [Pierre De Mey-Frémaux]</p> <p><b>11:30 – 12:00</b> Biogeochemical data assimilation [Stefano Ciavatta]</p> <p><b>12:00 – 12:30</b> Sea-ice data assimilation [Andrea Scott]</p> <p><b>12:30 – 13:00</b> Coupled data assimilation [Dan Lea]</p>

**12:30 – 13:30 Lunch**

**13:30 – 15:00 Parallel events:** Forum/ discussion/ training

<b>Forum</b>	<b>Training session</b>
<i>Room numbers tbc</i>	<i>Room numbers tbc</i>
<b>Challenges and Exploitation of Ocean Products</b>	<b>CMEMS (Copernicus Marine Services) Training sessions</b>
<p><b>Discussion</b> on specific challenges faced by users to which OO can fill gaps.</p> <p><i>Transformation of OO into decision tools</i></p>	<p><b>13:30 – 15:00 Hands-on session1:</b> Building ocean indicators from CMEMS products : <b>ocean heat content</b> (M. Drevillon, Mercator Ocean)</p>

**15:00 – 15:30 Break**



**15:30 – 17:00**    **Parallel events:** Forum/ discussion/ training

<i>Forum</i>		<i>Training session</i>
<i>Room numbers tbc</i>		<i>Room numbers tbc</i>
<b>Operational Oceanography and End-user needs/demands</b>		<i>CMEMS (Copernicus Marine Services)</i> <i>Training sessions</i>
<b><i>Cross Cutting Theme Project Discussion</i></b>	<b><i>Increasing Ocean Prediction Accessibility</i></b>	<b>15:30 – 17:00 Hands-on session2:</b> Building ocean indicators from CMEMS products : <b>mean sea level</b> (M. Drevillon, Mercator Ocean)

**17:00**    **End of day 4**

## Day 5

Science Team / Review / Task teams

08:00 – 09:00 Meeting room open

Discussion, training and business meeting

9:00 -12:30 Parallel events – **MEOPAR and GOV internal meetings**  
(Break at 10:30 – 11:00)

<i>MEOPAR meetings or training</i>	<i>OceanPredict community meeting</i>
TBC	GOVST meeting → Cross-cutting project ideas → OceanPredict international collaborations

10:30 – 11:00 Break

<i>MEOPAR meetings or training</i>	<i>OceanPredict community meeting - ctd</i>
TBC	GOVST meeting → Cross-cutting project ideas → OceanPredict international collaborations

12:30 – 13:30 Lunch

Plenary (90 min)

13:30 – 15:00 GOVST Symposium wrap up – Symposium co-chairs

15:00 End of day 5