



Symposium programme

Version 9 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 – 9:20 Sponsor introductions

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

9:20 – 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 **Assessment of present and future in-situ and satellite observing system**
(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 – 9:00 **Late registration and poster set-up**

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

9:00 – 9:45 **Modelling capacity status and future outlook**
(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 – 09:00 Meeting room open

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

9:00 – 9:45 Ocean data/products access / visualisation tools, dissemination approaches
(45 min: Talk + Q&A) – **Byoung-Ju Choi (Chonnam University) and Gregg Jacobs (NRL)**

9:45 – 10:30 User applications, societal benefits, future trends and outlook
(45 min: Talk + Q&A) – **Genevieve Bechard (DFO) and TBC**

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	
<i>Room numbers tbc</i>	<i>Room numbers tbc</i>	
International Partnerships in Operational Oceanography	CMEMS (Copernicus Marine Services) Training	Data Assimilation Training session
<p><i>Discussion on how best to frame OceanPredict in OO context. How to ensure good collaboration / knowledge exchange between GOOS/ETOOFs/ Ocean Predict/ Blue Planet</i></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>9:10- 9:30 Introduction to the Copernicus Marine Service (L. Crosnier, Mercator Ocean)</p> <p>9:30- 10:10 Which ocean parameters are available? (L. Crosnier, Mercator Ocean)</p> <p>10:10-10:30 Example of use (L. Crosnier, Mercator Ocean)</p>	<p>09:00 – 09:30 Introduction to data assimilation methods. [TBC]</p> <p>09:30 – 10:00 Observations used for assimilation. [Stéphanie Guinehut]</p> <p>10:00 – 10:30 Global ocean physical data assimilation. [Matt Martin/Greg Smith]</p>

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

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

Forum	Training sessions	
<i>Room numbers tbc</i>	<i>Room numbers tbc</i>	

Improving Linkages between Operational Oceanography and Industry	CMEMS (Copernicus Marine Services) Training	Data Assimilation Training session
<p><i>General overview Industry and Ocean Prediction Perspectives.</i></p> <p>Discussion on how to improve linkages</p>	<p>11:00-11:30 How to register, download data and browse catalogue (D. Bazin, Mercator Ocean)</p> <p>11:30-12:15 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>12:15 -12:30 Free time</p>	<p>11:30 – 12:00 Biogeochemical data assimilation. [Stefano Ciavatta]</p> <p>12:00 – 12:30 Sea-ice data assimilation. [Andrea Scott]</p> <p>12:30 – 13:00 Coupled data assimilation. [Dan Lea]</p>

12:30 – 13:30 Lunch

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

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

15:00 – 15:30 Break

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

Forum	Training session
<i>Room numbers tbc</i>	<i>Room numbers tbc</i>

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