Symposium programme

Version 8 May 2019

Day 0	Sunday, 5 May 2019

18:00 – 20:00 **Registration**
- o Poster set-up
- o Booth set up

20:00 **End of day 0**

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** (45 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**	**Room B3** **Chair: Fraser Davidson**
	2.1:	**Observations in the subpolar and arctic oceans**	**Room 501** **Chairs: Greg Smith and Laurent Bertino**
	3.1:	**Forecasts and nowcasts from models of ocean, atmosphere, and ice I**	**Room 507** **Chair: Lars Hole**
	5.1:	**Ocean reanalysis and applications**	**Room 503** **Chairs: Chris Harris and Marie Drevillon**
	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)		
	6.1:	**OSC, Defence and OceanBestPractice (OBP)**	**Room 503** **Chair: Andreas Schiller**
	2.2:	**New Observation and data processing methods**	**Room B3** **Chairs: Marion Gehlen and Pierre-Yves Le Traon**

3.2:	Forecasts and nowcasts from models of ocean, atmosphere, and ice II	Room 507
		Chair: **Dmitry** Dukhovskoy
5.2:	Biogeochemical, waves and storm Surge	Room 501
		Chairs: Susan Allen and Susan Kay

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	Room B3 Chairs: Yosuke Fujii and Katy Hill
	3.3:	Biogeochemical and ecological Applications	Room 507 Chair: Youyu Lu
	4.1:	Variational, ensemble and hybrid methods in ocean data assimilation I	Room 501 Chairs: Pierre De Mey-Frémaux and Lars Nerger
	5.3:	Global and Regional prediction Systems I	Room 503 Chairs: Ana Aguiar and Greg Smith
	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)	Room B3 Chair: Elisabeth Remy
	3.4:	Applications and advances in simulating sea ice	Room 507 Chair: Moninya Roughan
	4.2:	Variational, ensemble and hybrid methods in ocean data assimilation II	Room 501 Chairs: Matt Martin and Hans Ngodock
	5.4:	Global and Regional prediction Systems II	Room 503 Chairs: Guimei Liu and Simona Masina

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**   **Room B3**
                                                  Chair: Matthieu Le Henaff

4.3:   **Coastal/regional data assimilation**   **Room 501**
       and observation impact   **Chairs: Andy Moore and Anna Teruzzi**

5.5:   **Global and Regional prediction**   **Room 507**
       Systems II   **Chairs: Laurent Bertino and Marina**
                                                  Tonani

6.1:   **Oil spill and drift modelling**   **Room 503**
                                                  Chairs: Andreas Schiller and Laurence
                                                  Crosnier

12 min science presentations + 3 min Q&A

17:00 – 18:30	**Poster/ Booth session + coffee/tea**

19:00   **Symposium Dinner at** Murphy's on the water
                    1751 Lower Water Street

21:30   **End of day 2**

Day 3

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 Béchard (DFO) and Shawn Allan (Wood Environment & Infrastructure Solutions)**

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 F (4 parallel sessions – 6 talks each)**

	3.6:	Other advances in numerical ocean modelling	**Room B3** **Chairs: Maarteen Buijsman**
	4.4:	Biogeochemical and coupled ocean-atmosphere data assimilation	**Room 501** **Chairs: Stefano Ciavatta and Dan Lea**
	5.6:	Verification	**Room 507** **Chairs: Fabrice Hernandez and Yvonnick LeClainche**
	6.2:	Other applications: navigation, acoustics, storm surges, ecosystems	**Room 503** **Chairs: Andreas Schiller and Laurence Crosnier**

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   **Wrap-up of the first three days of the symposium and short introduction of day 4 activities** (co-chairs)

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

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

Day 4

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*	
International Partnerships in Operational Oceanography *Room B3* *Chairs: Fraser Davidson and Andreas Schiller*	*CMEMS Training (Copernicus Marine Services)* *Room 501*	*Data Assimilation Training session* *Room 503*
9:00 – 10:30 *Contributors:* Albert Fisher (IOC), Pierre Pellerin (ECCC), Douglas Wallace (MEOPAR), Vinay (Ocean Predict), Katy Hill (WMO) *Desired Outcomes:* Ideas on how OceanPredict fits in or works within the existing or soon to be international frameworks /networks /activities such as IOC, GOOS, International Decade of Ocean Science, GEO, WMO	**9:10- 9:30** Introduction to the Copernicus Marine Service (L. Crosnier, Mercator Ocean) **9:30- 10:10** Which ocean parameters are available? (L. Crosnier, Mercator Ocean) **10:10-10:30** Example of use (L. Crosnier, Mercator Ocean):00	**09:00 – 09:30** Introduction to data assimilation methods [Laurent Bertino] **09:30 – 10:00** Observations used for assimilation. [Stéphanie Guinehut] **10:00 – 10:30** Global physical ocean data assimilation [Matt Martin]

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

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

Forum	*Training sessions*	
Collaborations / knowledge exchange mechanisms: Ocean Prediction and End user linkages/ service providers.. *Room B3* *Chairs: Gary Brassington and Corinne Bourgault-Brunelle*	*CMEMS Training (Copernicus Marine Services)* *Room 501*	*Data Assimilation Training session* *Room 503*

11:00 – 12:30 Contributors: Laurence Crosnier, Mike Smit, Shayla Fitzgibbons	11:00-11:30 How to register, download data and browse catalogue (D. Bazin, Mercator Ocean)	11:00 – 11:30 Coastal and shelf-seas physical data assimilation [Pierre De Mey-Frémaux]
	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)	11:30 – 12:00 Biogeochemical data assimilation [Stefano Ciavatta]
		12:00 – 12:30 Sea-ice data assimilation [Andrea Scott]
	12:15 -12:30 Free time	12:30 – 13:00 Coupled data assimilation [Dan Lea]

12:30 – 13:30   Lunch

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

Forum	*Training session*
Collaborations / knowledge exchange: Ocean Prediction and Ocean Obs *Room B3* *Chairs: Elisabeth Remy and Greg Smith*	*CMEMS Training (Copernicus Marine Services)* *Room 501*
13:30 – 15:00 Contributors: Shayla Fitzgibbons, Mike Smit, John Wilkins	13:30 – 15:00 Hands-on session1: Building ocean indicators from CMEMS products : **ocean heat content** (M. Drevillon, Mercator Ocean)

15:00 – 15:30   Break

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

Forum	*Training session*

Cross Cutting Theme Projects *Room B3* *Chairs: Eric Chassignet and PN Vinayachandran*	CMEMS (Copernicus Marine Services) *Training sessions*
15:30 – 17:00 Contributors: Fabrice Hernandez, Douglas Wallace, Pierre de Mey, Elisabeth Remy, Dany Dumont	**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

08:00 – 09:00   **Meeting room open**

Discussion, training and business meeting

9:00 – 12:30   **GOV internal meetings**
                      (Break at 10:30 – 11:00)

OceanPredict community meeting
GOVST meeting   ➔ *Cross-cutting project ideas*   ➔ *OceanPredict international collaborations*

10:30 – 11:00 Break

OceanPredict community meeting - ctd
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**