



**8<sup>th</sup> International Coordination Meeting  
of the Coastal and Shelf Seas Task Team (COSS-TT)**

**12 & 13 April 2022**

MS Teams (virtual meeting)

**AGENDA**

**Lates draft (11 April 2022)**

## NOTES:

- Meeting uses Microsoft Teams
- Schedule uses Paris times (start of meeting each day: 1400)
- Presenters must be ready to share their screen (please practice beforehand)
- The Team session will be open 10 min prior to the meeting start
- Each talk slot is 10', strictly enforced so as not to induce drift
  - Presentation: 7'
  - Questions: 2'
  - Changeover: 1'

## Background material for UN Ocean Decade discussions:

- 2021 meeting report <https://oceanpredict.org/docs/Documents/Task%20Teams/COSS-TT/Meetings/June-2021/Report/1st-online-COSS-TT-meeting-report-June2021-v3.pdf>

## DAY 1: Tuesday, 12 April 2022

	<i>Topics and presentations</i>	<i>Presenter</i>
14:00 – 14:10	<b>Welcome:</b> Announcements, practical information, location, local hosts, posters, meals, social events, etc.	Pierre De Mey and Villy Kourafalou
<b>Session 1 – Science in support of coastal ocean forecasting</b>		<b>Chaired by the COSS-TT co-chairs</b>
14:10 – 14:20	Toward an Australian National Coastal Model	Mike Herzfeld (CSIRO)
14:20 – 14:30	The impact of observing the East Australian Current from the coherent jet to the eddy field	Colette Kerry (UNSW Australia)
14:30 – 14:40	Using the operational regional US West Coast model setup for process studies: along-slope anomalies during the 2014-16 heat wave period	Alexander Kurapov (NOAA)
14:40 – 14:50	An intercomparison of global reanalysis products for southern Africa's major oceanographic features	Jennifer Veitch (SAEON)
14:50 – 15:00	Variability of the Red River plume in the Gulf of Tonkin from a numerical approach	Tung Nguyen-Duy (LEGOS, University of Toulouse, CNES, CNRS, IRD, UPS, Toulouse, France)
15:00 – 15:10	Empirical consistency of regional and coastal ocean model uncertainties using stochastic methods and a global atmospheric ensemble	Vassilios Vervatis (University of Athens)
15:10 – 15:20	Framework for improving land boundary conditions in ocean regional products	Francesco Campuzano (+Atlantic CoLAB)
15:20 – 15:30	Effects of grid spacing on high-frequency precipitation variance in coupled high-resolution global ocean-	Brian Arbic (University of Michigan)

	atmosphere models	
<b>Session 2 – Coastal and Regional (pre-)operational ocean forecasting systems and applications</b>		<b>Chaired by the COSS-TT co-chairs</b>
15:30 – 15:40	A regional higher resolution model of Caribbean Arc – Application to the Sargassum algae drift and beaching forecasting	Sylvain Cailleau (MOi)
15:40 – 15:50	Development of a pre-operational ocean forecast system for Mississippi Sound and Bight in the northern Gulf of Mexico	Kemal Cambazoglu (University of Southern Mississippi)
15:50 – 16:00	Tracking the drifting of pelagic Sargassum rafts in the East China Sea and Yellow Sea using a coastal ocean modeling system	Byoung-Ju Choi (Chonnam National University)
16:00 – 16:10	Real-time forecasting in support of fine-scale field experiments in the Western Mediterranean Sea	Baptiste Mourre (SOCIB)
16:10 – 16:20	Uncertainty in Drift Prediction in the St. Lawrence Estuary	Graig Southerland (ECCC)
16:20 – 16:30	Development of Six Port-Scale Ocean Forecast Models in Canadian Waters	Stephane Taylor (DFO)
16:30 – 16:40	Land to Sea: operational high-resolution coupled model of the German Bight and its estuaries	Joanna Staneva (HZG)
16:40 – 16:50	Biophysical dynamics, prediction and mitigation of aggravating hypoxia over an estuary-shelf transition zone	Jianping Gan (Hong Kong University)
16:50 – 17:00	<b>Day 1: Closing comments</b>	

## DAY 2: Wednesday, 13 April 2022

	<i>Topics and presentations</i>	<i>Presenter</i>
<b>Session 3 – Seamless integration between Coastal and Regional systems and Large scale systems</b>		<b>Chaired by the COSS-TT co-chairs</b>
14:00 – 14:10	Storm surge modelling and forecasting of Mediterranean tropical-like cyclone	Ivan Federico (CMCC)
14:20 – 14:20	A two-way nested forecasting system to resolve microplastic pathways from inland waters to open sea	Jun She (DMI)
14:20 – 14:30	Combining Observations and Numerical Models for Ocean State Estimation and Forecasting: CONCEPTS Coupled Environmental Prediction Systems	Greg Smith (ECCC)
<b>Session 4 – Synergy between altimetry and modelling in coastal regions</b>		<b>Chaired by the COSS-TT co-chairs</b>
14:30 – 14:40	Design of multi-platform sampling strategies for reconstruction of fine-scale ocean currents	Bàrbara Barceló-Llull (IMEDEA)
14:40 – 14:50	Toward Higher resolution Level-3 altimeter products	Marie-Isabelle Pujol (CLS)
14:50 – 15:30	<b>Discussion about all Themes:</b> Where do we go from here? What are the major science challenges and international collaboration opportunities?	
<b>TT participation in the UN Ocean Decade: participation status and questions</b>		
15:30 – 15:50	CoastPredict programme	Villy Kourafalou (Univ of Miami/RSMAS)
15:50 – 16:00	ForeSea programme	Kirsten Wilmer-Becker (Met Office)
16:00 – 16:20	SynObs project	Pierre De Mey-Frémaux (LEGOS)
16:20 – 16:30	<b>Day 2: Closing comments</b>	

16:30 – 17:00	<b>COSS Task Team meeting</b>	<b>Task Team members only</b>
17:00	<i>End of day 3</i>	