

1st COSS-TT online meeting

Chat

Day 3

9 June 2021

14-16 BST (time)

Meeting chat information

[11/06 14:18] Paolo Oddo

I like Alan's definition. 15km in one direction and 15 km in the other. That's it

[11/06 14:20] Mauro Cirano (UFRJ)

Yes

[11/06 14:26] Lu, Youyu

To Alan: For low-lying coastal cities, the drainage system may also be a significant element. Should this element also need to be included in modelling?

[11/06 14:28] Mauro Cirano (UFRJ)

To Alan: I am glad that we could watch your presentation

[11/06 14:31] Mauro Cirano (UFRJ)

Neural network is a good way to go in coastal regions

[11/06 14:38] Paolo Oddo

At least we need the definitions of coast in the two "groups" have an overlapping area

[11/06 15:05] Joanna Staneva

In the context of the Coastal Predictions and Climate, COSS-TT needs to be more active in implementing a Coastal Earth System Modelling (CESM). It will integrate land, estuaries and coastal models. The CESM challenge is to deal with diversity of model components (N-S, Spectral, Lagr.), as well as to be integrated in DA/AI framework.

[11/06 15:09] Paolo Oddo

My only concern with ML is that while the Machine is learning the human is not.

[11/06 15:11] Nadia Pinardi

Dear Villy and Pierre, all COS-TT team I have to leave now, thanks for carrying the coastal ideas along, now we have also CoastPredict to help in looking at the Global coastal ocean! See you soon.

[11/06 15:11] Marcos García Sotillo

Complementing what said on the importance of the in-situ and the use of other satellite (coastal altimetry, observation from ocean colour) it is important to go further from the T/S sea level. We need to measure other less observed variables. In the physical side the currents (HF radar, drifters, etc.)..

[11/06 15:17] Villy Kourafalou

To Nadia: Thanks for joining, so important to have you!

[11/06 15:19] Jeffrey Polton (NOC)

High frequency (sub daily) freshwater fluxes will be increasingly important for the estuarine and near coastal zone. Obviously closer integration with land surface models is required (as mentioned). Perhaps we could offer a minimum spec for these land use models so that they could be suitable for COSS models?

[11/06 15:26] Paolo Oddo

There is also the need to ensure consistency between air-sea fluxes in urban ocean / coast / open ocean.

[11/06 15:26] Mauro Cirano (UFRJ)

Not only that but also the identification of rivers that have some sort of damming

[11/06 15:26] Joanna Staneva

There is a need to focus on end-users/society demands - as for example for Nature Based Solutions and restorations:

1. restored river-coast connectivity
2. restore coastal habitats - seagrass, lagoon, dunes
3. demonstrate scale-dependent risk reduction

[11/06 15:27] Youyu Lu

In Canada we have surface hydrological models linked to Great Lakes system and are working on for St Lawrence River system and other rivers.

[11/06 15:29] Youyu Lu

We are developing a system from global all the way to port scales (30 -100 m resolution) in one-way nesting.

[11/06 15:30] Enda O'Dea

Saline intrusion into ground water is a huge issue in low lying sinking cities where land modellers can "take" from ocean modellers instead of give.

[11/06 15:33] Mauro Cirano (UFRJ)

To Youyu: In your example do you use NEMO all the way?

[11/06 15:40] Youyu Lu

To Mauro: Yes, we have NEMO from global to ports. There are others in Canada using ROMS & FVCOM. We can include all these within a project under CoastPredict.

[11/06 15:41] Mauro Cirano (UFRJ)

Thank you, Youyu

[11/06 15:46] Youyu Lu

For climate projection in coastal, the coarse resolution atmospheric forcing is an issue. In Canada we have short-term weather prediction down to 2 km resolution, but regional climate atmospheric models are at best 30-50 km resolution. What is the solution for this? statistical down-scaling? ML/DL useful?

[11/06 15:47] Youyu Lu

Yes, adding fisheries is important

[11/06 15:51] Jeffrey Polton (NOC)

There might be societal value in improving systems for nerd reasons: it keeps scientists off the streets.

Edited

[11/06 15:51] Mauro Cirano (UFRJ)

What are the chances that our meeting in Canada will be face to face?

[11/06 15:57] Wilmer-Becker, Kirsten

<https://oceanpredict.org/science/task-team-activities/coastal-ocean-and-shelf-seas/#section-introduction>

Coastal Ocean and Shelf Seas (COSS-TT) - Ocean Predict

International collaboration to advance science and expertise in support of regional/coastal ocean forecasting

oceanpredict.org

[11/06 15:58] Mauro Cirano (UFRJ)

Villy, Pierre and Kirsten, thank you for all the effort for organizing this workshop

[11/06 15:58] Christopher Edwards

Thank you all for the excellent 3 days. I enjoyed the talks and discussion very much.

[11/06 16:07] Fabien Lefevre

Thanks all for your talks & presentations. Your community is a bit new for me. I learned a lot. Keep in touch.

[11/06 16:09] Paolo Oddo

I have to go, I, as usually enjoyed a lot. Thanks Villy, Kirsten and Pierre, thanks all!

[11/06 16:09] Paolo Oddo

Ciaooooo

[11/06 16:10] Byoung Choi

I have been well informed a lot on programs and projects for UN Ocean Decade. Thanks to all presenters and participants.

[11/06 16:10] Jennifer Veitch

Thanks Mauro - I agree!

[11/06 16:12] Mauro Cirano (UFRJ)

I believe the next BRICS meeting will be in July. I can send the exact dates later, just send me an email mauro.cirano@igeo.ufrj.br

[11/06 16:12] Jennifer Veitch

Thanks, Mauro, will do. Hopefully the cut-off dates are properly synched this time...!

[11/06 16:15] Rafael Schiller

Thank you all for the workshop, it was great. Look forward to working with yourselves on the next steps. Cheers, Rafael.