

## Minutes of OS-Eval TT Web Meeting 15

23 June 2022, 21 UTC

- Presentation on the evaluation of OSNAP(?) using adjoint sensitivities by Patrick Heimbach
  - Combine the Hessian information and QoI.
  - Synergy and redundancy among different buoys(?) are detected.

Comments:

P. DeMey: How the Hessian is calculated? > Using Lanczos vectors.

Y. Fujii: Is it possible to evaluate the synergy between in-situ and satellite observation?

> Principally, yes. Large number of observations is an obstacle.

- SynObs endorsement and the joint OS-Eval TT & CP-TT workshop
  - SynObs was endorsed as an UN Ocean Decade Project on June 8<sup>th</sup>.
  - Registration and abstract submission is now open (Dead line: Jul 15<sup>th</sup>)

Comments:

T. Lee: He is currently dealing with the proposal on the collaboration for the satellite surface current observations (and other elements?) with France, and he will present the information in the joint workshop.

- Collaborative OSE and OSSE
  - Flagship (Core) OSEs and some extensions are planned.
  - Provision of Nature Runs and OSSEs may be conducted under the collaboration with DITTO and the Ocean Prediction DCC.

Comments

K. Wilmer-Becke: According to the discussion in OPST-6, a meeting with DITTO and DCC for the collaboration will be set soon.

P. DeMey: What will be conducted for the coastal extension of the OSEs.

Answer: Yosuke assumes downscaling of core OSE to the coastal model.

Pierre indicated that the impacts of the same observation can be different between the global and coastal system.

We would like to have a discussion on the protocol of the coastal OSE in the joint workshop.

M. Le Henaff informs that NOAA is discussing the possibility of providing a nature run.

T. Lee suggested summarizing the requirements for the Nature Runs.

C. Tanajura: What kind of resources will DITTO and DCC provide?

In Japan, JAMSTEC may provide some data servers for providing Nature runs. (They have experience in managing a large data server.)

In European countries (and US?), they are likely to investigate to DITTO. And I think the Decade Collaboration Center will also provide something. We need to have a meeting.