

## ★ Activities of OS-Eval TT (June to December, 2020)

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- ◆ Monthly Web Meetings (6 times)
- ◆ Change of TT Acronym (OSEval-TT to OS-Eval TT)
  - ✓ In order to prevent people from thinking the TT deals with OSE alone.
- ◆ Compiling the table of observation use in each OceanPredict system
  - ✓ We plan to put it on the OceanPredict web page and the ocean impacts reports.
- ◆ Observation Impact Symposium at Tsukuba, Japan
  - ✓ postponed to Nov. 30<sup>th</sup> – Dec. 3<sup>rd</sup>, 2021.
  - ✓ Good for the kick-off of UN Decade project
- ◆ Drafting the proposal of OS-Eval study for UN Decade and the OP Cross Cutting Project
- ◆ We aim to publish the ocean observation impact report regularly.

# ★ Table of Observation Use in Each OceanPredict System

Platform:	Profiling Floats (Argo Floats)								
Level 0	Not used at all								
Level 1	Used for validation (The system is constructed independently from the data)								
Level 2	Not assimilated but used for input data (The system depends on the data), or assimilation scheme is currently being developed								
Level 3	Assimilated on the research basis								
Level 4	Assimilated indirectly in operation (as the ingredient of objective analysis or forcing data)								
Level 5	Assimilated directly in operation (The data are assimilated without combining with other data)								
Center/Institute	System Name	Trajectory	Temperature	Salinity	Oxygen	Chlorophyl	Notes		
BoM (CSIRO)	OceanMAPS	Level 1	Level 5	Level 5					
CHM-REMO	RODAS		Level 5	Level 5					
ECCC	GIOPS (global 1/4°)	Level 1	Level 5	Level 5					
	RIOPS (Pac-Arctic-NAtl 1/12°)	Level 1	Level 5	Level 5					
ECMWF	OCEAN5 Global 1/4	Level 1	Level 5	Level 5					
	ECWAM								
INCOIS	RAIN (1/12 degree)		Level 5	Level 5			TS profiles are collected from GTS		
	INCOIS-GODAS (1/2X1/4 global)		Level 5	Level 5			TS profiles are collected from GTS		
	HYCOM (1/12 degree)		Level 5	Level 5			TS profiles are collected from GTS		
	SWAN								
	WAVEWATCH III (1 degree)								
JMA	MOVE (Global)	Level 1	Level 5	Level 5			TS profles are collected from GTS for the		
	MOVE (Regional)	Level 1	Level 5	Level 5					
	Wave DA Systems								

## ★ OS-Eval Proposal: The main purpose

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- ◆ The temporal title: **Synergistic Ocean Observations for Ocean and Coupled Predictions**
- ◆ Mainly we seek the way to extract the **maximum benefit from the combination among various observation platforms**, typically **between satellite and in situ observation data**, and **between open ocean and coastal sea observing systems**, in monitoring and predictions of the ocean state using numerical ocean (and coupled) prediction systems.
- ◆ We aim to **identify the optimal combination** of different ocean observation platforms, and **develop assimilation methods** with which we can draw synergistic effects from the combination. We may also plan a **collocated satellite-in situ observation campaign**.
- ◆ Include studies for various scales and various areas, such as coastal and open ocean studies, studies of polar regions, weather and climate coupled prediction studies.

## ★ Positioning of the OS-Eval project

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- ◆ We would like to submit it as a **Decade project belonging to both the OceanPredict UN Decade program, “A predictable ocean with impacts”, and the CoastPredict (which is also a UN Decade Programme).** That is, the project will have the two umbrella.
- ◆ The essence of the OS-Eval project proposal will be **merged to the OceanPredict UN Decade proposal** as an essential part of the UN Decade Programme.
- ◆ **We would like to co-organize the project with DA-TT** (DA-TT co-chairs are positive). We would like to collaborate also with COSS-TT and other task teams.
- ◆ We also need to **collaborate with observational communities**, such as GOOS, OOPC, Argo ST, TPOS2020, Satellite Agencies, and so on.
- ◆ We have few financial resources. It would be nice if we can find some funding.