



OceanPredict OS-Eval Task Team
The 11th web meeting

(Sep 28th, 2021, 13:00UTC)

★ Agenda

00:00-00:02: Introduction

00:02-00:30: Presentation: Current status and future plan of satellite missions related to ocean prediction in ESA ([Craig Donlon, ESA](#)) (including discussion)

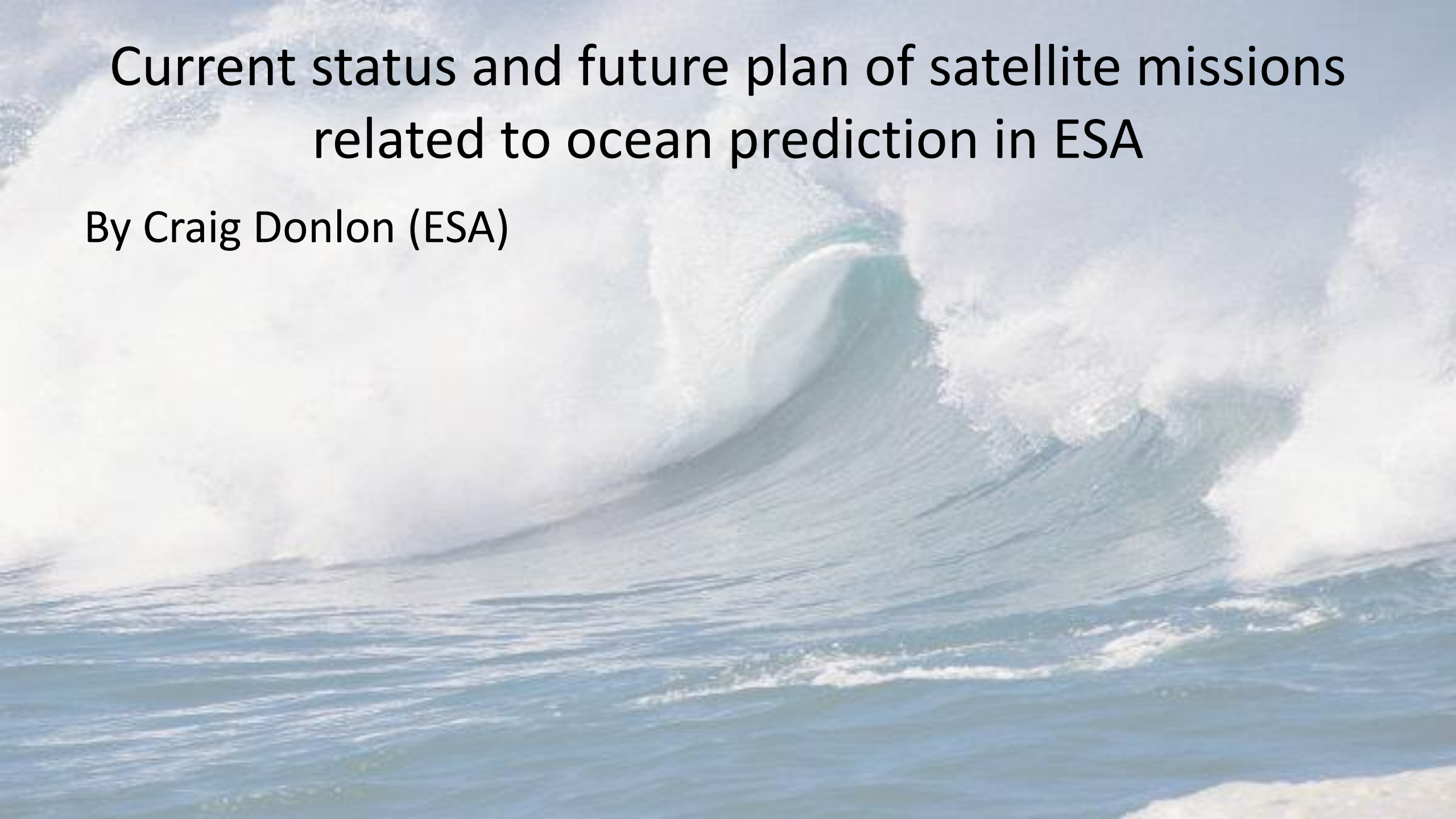
00:30-00:40: Report and discussion on **the launch of SynObs**

00:40-00:55: Discussion on the **OSE collaboration for the fast salinity drift of Argo floats.**

00:55-01:00: Communications, Wrap-up

Current status and future plan of satellite missions related to ocean prediction in ESA

By Craig Donlon (ESA)



★ Recent activities related to the launch of SynObs

◆ Ocean Observing Co-Design – Initial Planning Meeting (Sep. 3rd)

- ✓ Confirmed potential contributors to Ocean Observing Codesign
- ✓ The coordination will be discussed next few months

◆ Ocean Decade laboratory – A Predicted Ocean (Sep. 15-17th)

- ✓ Satellite Event hosted by ForeSea, CoastPredict, Ocean Observing Codesign, and SynObs
 - > Yosuke Fujii made a recorded introduction of SynObs.
 - > Elisabeth and Peter Oke participated in the panel discussion.
- ✓ David Legler addressed an expectation on SynObs in the Wrap-up discussion.
 - ⇒ SynObs is already accepted in the Decade community.

◆ Dialog for Decade Collaborative Center for ocean prediction (Sep. 27th)

- ✓ Mercator Ocean International (Moi) will apply.
- ✓ Support the activities of Decade Programmes/Projects related to ocean prediction
- ✓ Coordinate the collaboration among different Decade Programmes/Projects

★ Plan for the launch of SynObs

- ◆ OceanPredict TT co-chairs meeting for the launch of SynObs (in October)

- ◆ Organizing the Steering Team (After the meeting above?)
 1. Co-chairs (OS-Eval TT co-chairs double as the co-chairs of SynObs steering team? Or share the role with other TTs?)
 2. Coordinator(s) for each targeted combination? (The coordinator(s) mainly coordinate the activity for the targeted combination. We will select the coordinators near future.)
 3. Representative of observational communities?

- ◆ Regular web meeting for SynObs
 - ✓ Open the OS-Eval web meeting (this meeting) to the contributors of SynObs.
 - ✓ A meeting only for OS-Eval members will be held when we have agenda relevant only to the OS-Eval TT.

★ OSE collaboration on the fast salinity drift of Argo float

◆ Proposal and Protocol

https://docs.google.com/document/d/11a7Srmw8AcWNP_XyPq1Rgd3PtX0vklYdChWHvMik9T8/edit

Please add your comments to for modifications!

◆ What centers/Institutes join this activity?

◆ Do we need to decide a common data source for the real time and delayed mode Argo data? (Address of data source?)

◆ Does Each center make diagnostics for their own results?

◆ Due date: Before the Argo Science Team Meeting? (Next March?)

★ Communications

◆ Table on the use of observations in OceanPredict System

- It is now in public from the TT web page.

<https://oceanpredict.org/observations-use/#section-argo-profiling-floats>

- You can update the table using the following link.

<https://docs.google.com/spreadsheets/d/17pztRAwDztloyNn5gJbNFt5Ln6nq9F75kPlxAkQUvMQ/edit#gid=0>

⇒ Kirsten will regularly reflect the update

◆ We also support DA-TT online technical seminar.


Next time: Nov 29th, Lecturer: Matt Martin (UKMO)

<https://oceanpredict.org/science/task-team-activities/data-assimilation/#section-technical-seminar-series>

◆ Next Meeting

- November?

- It may be held as the kickoff meeting of SynObs (we will invite all SynObs participants.)

A large, powerful ocean wave is shown in the process of crashing. The wave's crest is curling over, creating a massive wall of white foam that is being thrown into the air. The water below the crest is a deep, dark blue-green color. The sky is a clear, pale blue. The overall scene is one of raw natural power and energy.

Back-up

★ Initiation and web page

◆ How do we declare the initiation of SynObs?

- ✓ Declare at the regular web meeting and the web page(?) (Inform IOC?)

◆ Web Page

- ✓ Most activities of OS-Eval TT will become a part of SynObs.
- ✓ So, it is efficient to transform the current OS-Eval TT web page to the common web page for SynObs and OS-Eval. (Is it appropriate?)
- ✓ We would like to ask the management of the web page to the OP project office (i.e. Kirsten) at least for the first several months.
- ✓ It is preferable to get SynObs's own fund to manage the web page (and coordination of the project). Are there any possibility?

◆ Symposium

- ✓ We plan to have a OS-Eval & CP TTs joint meeting at Nov. 15-18th, 2022 in Japan. We consider it is the fast (kick-off) symposium for SynObs. We will invite all contributors and supporters of SynObs.

★ Targeted Observation system combinations

◆ Targeted observing system combination proposed so far

- a) Satellite Altimetry, SKIM and Argo (and tropical buoy array?)
 - ⇒ including global and tropical oceans and WBC regions
- b) Satellite radiometers, in situ observations of the A-O interface
- c) Satellite SSS and near surface in situ observations
- d) Satellite Ocean color and in-situ observations (BGC Argo)
- e) Sea ice concentration and thickness
- f) Coastal observing platforms (ocean radars etc.), satellite remote sensing, and Argo.

◆ Possibility of additional targets

- g) NRT evaluation and emergency responses (i.e., those for Argo fast salinity drifts)
- f) Tropical Pacific Observing System ⇒ included in a)?
- h) Observation impacts on S2S predictions ⇒ included in a)?

◆ Maybe, a) can be separated into several categories, e.g.,

- a-1) Tropical oceans and S2S predictions
- a-2) Western boundary currents and meso-scale eddies (mainly for “pure” ocean predictions)

★ SynObs Activities

- ◆ Multi-System OSE, OSSE or evaluation is supported by most people.
 - ✓ How do we use the new metrics (such as DSOI, EFSOI and DFS) with OSE/OSSE?
- ◆ Nature Run
 - ✓ Not many people supported this idea. It is possible to collaborate for preparing a common Nature Run for global ocean and some common targeted oceans.
- ◆ Workshops or Seminars for DA scheme development of specific sensors.
 - ✓ We can invite the specialist of the sensor and discuss the design of the observation platform, the assimilation method, and error statistics.
- ◆ Observation Impact Report.
 - ✓ We aim to publish reports on ocean observation impacts (our achievement) regularly.
 - ✓ It is not clearly decided but we probably need to submit some report to UN Decade programmes we belong to (ForeSea, CoastPredict, ObsCode) and maybe to IOC.
 - ✓ We aim to contribute the authorized report of ocean observation requirement suggested in ObsCode.
- ◆ Need to keep OS-Eval TT activities if all of them do not fit into SynObs.
 - ⇒ Try to fit all OS-Eval TT's activities to SynObs if possible.



Symposium toward Synergistic Observation Networks for Ocean and Earth System Predictions

~~10-13 Nov, 2020, Tsukuba Japan~~



~~30 Nov – 3 Dec, 2021~~



15-18 Nov., 2022

- ◆ Planned as the regular face-to-face meeting of OS-Eval Task Team, and jointed with the coupled prediction task team.
- ◆ But now, we consider to transform it as the fast SynObs Symposium
- ◆ Open for all researchers who are contributing to SynObs
- ◆ Having a presentation about the evaluation/design of ocean observation networks, DA development for effective use of observations, and earth system predictions.