

SWOT regional validation
group
discussion

Questions to address

- Objectives

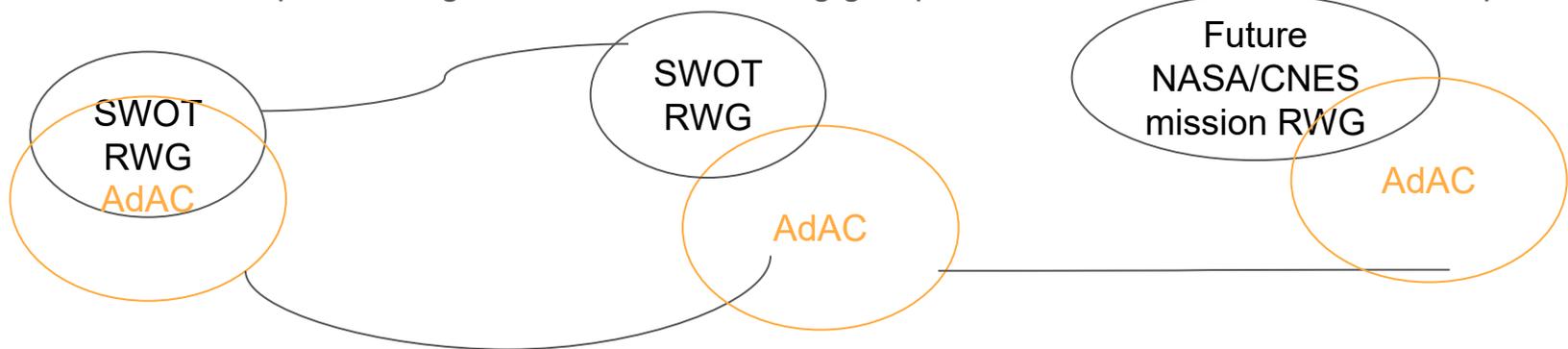
- Validate and understand the SWOT SSH at different spatial and temporal scales by comparing to the insitu data, steric height, GPS etc.
- Validate and evaluate the SWOT performance in higher-order statistics

- Actions

- Consolidate in-situ measurements, data inventory
- data/tools/software sharing
- Organization, monthly tag up, working group

AdAC and SWOT regional validation Working Group

- SWOT regional validation Working Group
 - Focus on validating SSH, especially at small scales
 - For different dynamical regimes and seasons
 - Level-2 product
- AdAC
 - Using in-situ campaign data, provide regional validation to the mission
 - Go beyond level-2 data validation, but more on science exploration
 - Will decouple with regional validation working group when the level-2 validation is complete



What questions would you like the SWOT project to address in the context of regional validation?

data will be publicly available from start even before the ship is back to port, some data will need the proper cycle of QC, validation and consolidation and anything in between.

no

physical-biological coupling, scale interactions

limitations of the data around land-sea boundary

Is the point-to-point error budget available?

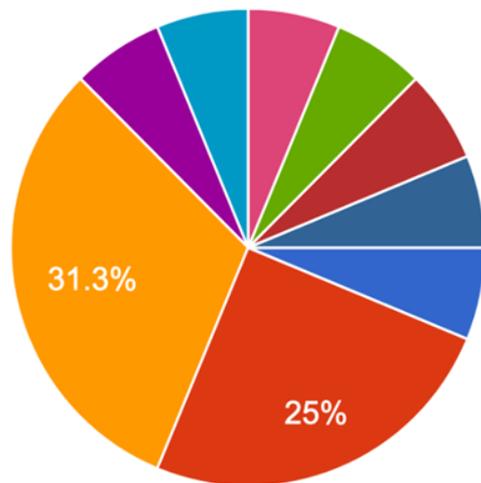
What is the contribution of submesoscale dynamics to the general overturn circulation of the Baltic?

Sharing results on validation against sea level and velocities, and methods (spectral analysis....)

- what is the spatio-temporal resolution that SWOT is able to see in large continental shelves like the Argentine Continental Shelf? - can we see internal-waves?

The timeline of sharing your campaign data

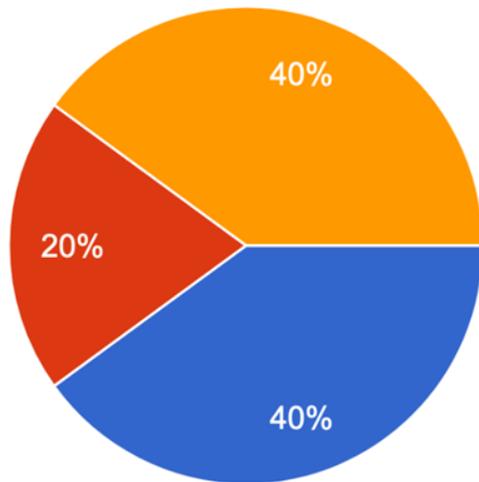
16 responses



- Immediately upon request
- Spring 2024 (around the calval meeting)
- Winter 2024 (after submit the first man...)
- Not sharing in a foreseeable future
- Moorings not recovered yet. Data will...
- Inside the SWOT community the data...
- probably end of 2024 since the campa...
- As soon as possible, spring 2024 is te...
- After we submit the first manuscript (date unknown)
- Data will be open once processed. Mooring data in spring 2025

Data sharing policy

15 responses



- Share data openly without constraints
- Share data privately, need to be coauthors on publications
- Share data privately first, need to be coauthors on the first several publications, then completely open

What questions would you like the SWOT project to address in the context of regional validation?

- what is the spatio-temporal resolution that SWOT is able to see in large continental shelves like the Argentine Continental Shelf? - can we see internal-waves?

What is the contribution of submesoscale dynamics to the general overturn circulation of the Baltic?

given the variety of data coming out of the campaigns, the data sharing is not going to be one for all. some data will be publicly available from start even before the ship is back to port, some data will need the proper cycle of QC, validation and consolidation and anything in between.

I write here a comment re. data sharing policy. We will assign a DOI to the dataset and the data will be public but PhD students and postdocs within the project will have priority - not sure how to set up the constrains yet

Sharing results on validation against sea level and velocities, and methods (spectral analysis....)

Is the point-to-point error budget available?

Is there an initiative to validate data using a similar method through the entire AdAC consortium?

General comments, such as what do you want to get out of this meeting, what should be the priority of AdAC and regional validation working group in the near future.

- I suggest to perform exactly the same in-situ sampling in the different regions during the science phase. The sampling to be performed should be discussed. Should be simple and possible for the large majority. For example the deployment of a dozen of surface drifters equipped with thermistor at the surface and at 12m depth within a submesoscale feature detected with satellite images.

The exchange of information can be very powerful. The return on experience on the science outcome, but also with what equipment we used, trialled, with operating modes, processing etc.. would be worth pursuing. for example I'm getting very keen

Aim for a joint paper in a top journal / We will send the presentation following the template a few days before the meeting.

Raise a first image of SWOT errors evidenced for each area

I want to know the most effective methods to extract regional SWOT data, with various choices of correction terms.

Is there a plan to gather all AdAC data into a single validation paper? Is there a need/opportunity to submit a