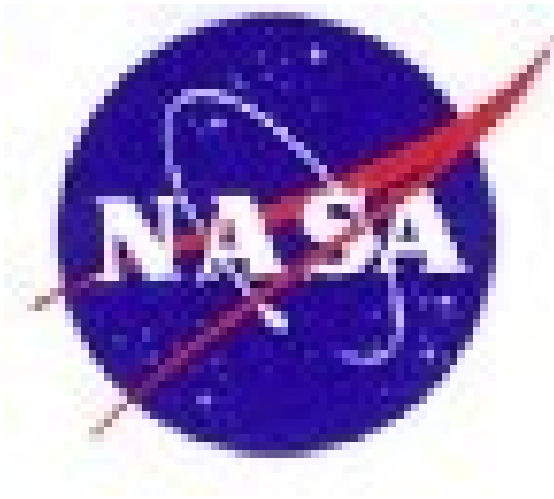


IOVWST 2025

Discussion of Goals from Yesterday

**Input from Mark, Session Chairs, and the
IOVWST organizing Committee**



Suggested Action: Surface Currents

- Summary of the situation:
 - In the oceanography community, there is a strong interest in surface currents
 - May oceanographers in this group are working on surface current modeling, with a wide variety of approaches
 - Luc Lenain's approach looks very interesting (in a good sense of this phrase)
 - SMODE provided invaluable data
 - However, the community is limited by a lack of open ocean surface truth
- What can we do to get more surface truth?
 - How useful are currents from high frequency radar data?
 - How useful are single vector component SAR data?



Suggested Action: Suggestions for better linking efforts on modeling processes with Remotely Sensed Data

- We've seen some exciting progress in modeling processes related to wind/wave/ocean coupling.
- We're seeing progress in remote sensing that might be informative regarding these processes
- Can we help each other move forward?



Suggested Action: Winds Validation

- Statement:
 - We can intercalibrate wind most remotely sensed wind to a truly remarkable degree of accuracy!
 - However, there are some sensors (or processed datasets) that are noticeably dissimilar to other data sets
 - CYGNSS due to calibration to neutral winds rather than Equivalent neutral winds.
 - CFOSat's scatterometer's dependence on wind speed
 - While these differences are very minor for many applications, we'd prefer consistence
 - Differences in spatial scale, noise and consequently variability are going to be important for the interpretation of extremes and sampling requirements of calibration for extremes
- How to do move forward with 'truth' for extremes?
 - IWRAP seems good, but there are sampling issues impacting 10m winds
 - How does sampling impact links between mean winds and 1-minute maximum winds?
 - Note: it shouldn't – otherwise interpretation is impractical.



Suggested Action: How can surface wind data be more useful for Tropical Cyclone forecasts?

- I suspect that we are under utilizing the measurements.
- However, we also need better modeling of the extreme winds
- There seems to be progress on both these topics.
 - How can remotely sensed winds, and other data, help modelers?



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