Should we Recommend Public Release of the new JPL L2 Product?

- The new JPL V3 L2B QSCAT product
  - Much (very much) less noise
  - Works better in rain (offers corrected winds)
  - Closer to the coast
  - Component spectra show resolution of much higher wavenumbers

- IOVWST attendees recommended that JPL release the V3 L2B QSCAT product via the PO.DAAC

Commend ISRO on OCEANSAT-2 Scatterometer Data

- The calibration of the OCEANSAT-2 scatterometer has progressed very nicely, to the point where very good winds are produced. These winds have mitigated the loss of QuikSCAT for the operational community. We compliment ISRO on this development and on their policy that makes the data available in a timely way and also allows its reprocessing by other agencies.
- We encourage further collaboration to produce a climate quality data set by releasing a uniformly processed complete data set and continue to engage the international community to correct for potential drifts in the instrument and provide independent validation.

Express Enthusiasm for the GCOM-W2 mission AMSR3 + scatterometer

- The combination of an AMSR3 instrument and a QuikSCAT-like or improved scatterometer on a GCOM-W satellite would produce data of great interest for science and operational studies and applications. The combination of instruments provides unique opportunities for advances in multidisciplinary studies on wide range of topics. We strongly encourage a collaborative effort to make such a mission happen.

Discussion

- CEOS Questions
  - Should we develop working groups
    - Cal/Val
    - Data Products
    - Constellation
    - Air/Sea
    - Climate
    - There was limited enthusiasm during the meeting; however, afterwards there were sufficient volunteers for groups on Cal/Val and Data Products
  - Should we try to take STEWARDSHIP of the Virtual Constellation for Ocean Surface Vector Winds?
    - While it was clear that the IOVWST should have input, it seemed that CEOS should play some role in stewardship.
    - Further discussion is needed with CEOS

Action Items

- Post reports on FSU website (Bourassa)
  - NASA reports
  - White papers
  - Can we post reports from KNMI?
    - Bourassa will link to KNMI reports
- Working groups will self organize
  - Bourassa will put groups and members on website
    - Members will select chairperson(s) each group
    - We will try to organize more frequent interactions for each group
      - Telecons

Next Meeting

- Due we need a longer meeting next year?
  - No
- Do we need to have short breakouts for experts to discuss solutions?
  - Or for CEOS or other groups
  - We need to have breakouts, or larger poster sessions

First Results from OSCAT, HY2A and MetOp-B Action Items

- Agencies to make web pages with satellite mission background known
  - Bourassa will link web site to the information for past, ongoing, and approved future missions
- Agencies to develop common and shared cal/val standards and monitoring to ease application in the user community
  - Develop a working group(s) for calval including climate applications (anticipate participation from agencies)
- Can we match impacts of rain flags? Do we need that for climate applications.
- Can Ebuchi plots be made for each scatterometer product?
  - Part of the standard comparison techniques
  - Ebuchi is willing to provide the graphics

New Products – Action Items

- Follow GCOS principles for reprocessing
  - Develop common data set for evaluation (who?)
- Update user advice document by Milliff et al. discussed in 2011
  - Volunteers: Milliff et al.
  - Post the updated version (Bourassa)
- Develop wiki for OVWs
  - Starting at PO.DAAC and FSU
- Identify characteristics for ice detection
  - Post these in easy to find location(s)
- PO.DAAC help with development of hurricane data sets
  - David Moroni & colleagues

Surface Fluxes – Action Items

- Post assessments of buoyancy-related errors as seen in the differences between equivalent neutral winds and in situ winds
  - Edson will provide input
  - Bourassa will post Edson's results and older results
- Provide easier to find links to the use of remotely sensed winds to assess operational and climate models
  - Bourassa will update links on his site
  - People with examples will provide very short descriptions
  - Others are encouraged to link to the meeting presentations
- Ad will look into model errors related to a lack of small (scatterometer) scale convection

Oceanography – Action Items

- Test rotation and divergence characteristics of differently processed surface winds products
  - Paul Hughes and Heather Holbach
- Compare curl and divergence (or gradients) derived from difference sensors (e.g., altimetry vs. winds)
  - Dudley Chelton? Heather Holbach?
  - Need someone to commit to this
- Stress retrieval
  - Wentz, Rodriguez, Bourassa, Liu
- Do errors in ECCO SST & wind positions as well as surface currents & wind cause problems shown by Dimitris Menemenlis?
  - Dimitris Menemenlis

Climate Data Records and Calibration/Validation Action Items

- Post (and publish) the outstanding issues
  - Climate and Cal/Val WGs will contribute to a *short* meeting summary that includes this material
  - Bourassa will post on his website and elsewhere (wiki)
- Provide an easily understood description of how calibrations have changed with each publically released version of the wind products
  - Post in easy to find location(s)
  - All groups producing L2 data (KNMI, JPL, RSS, NOAA, ISRO, others)
- Determine the extent to which undetected rain plausibly influences small biases in ascending vs. descending passes
  - Who?
- Determine the extend to which diurnal changes in boundary-layer stability influences small biases in ascending vs. descending passes
  - Who?

Meteorology – Action Items

- How important are errors in divergence due to surface relative winds?
  - Who? (Bourassa, any others?)
- Test constellation configurations with a substantial number of realistic storms (tropical and high latitude)
  - Who?
- Look into curl as a product
  - Hughes and Bourassa
- Forcast error impacts
  - EUMETSAT (Bonekamp)