Application Development for Operations

Current products and systems

- What are the requirements (accuracy, precision, coverage, …)
- What are the product levels mostly used for operational applications (L2, L2P, L3)?
- What is the preferred access point and protocol for retrieving your data?
- Are the flags currently provided in the NRT products adequate for your use, or do they flag out too much or too little?
- The importance of timeliness is a recurrent topic addressed, currently the nominal 3h timeliness for NRT products is considered appropriate, would a faster delivery be of any advantage for operational application?

Future products and systems

- Is your operational product is capable of utilizing, in its present state, SAR altimetry? Or are you just planning to use (pseudo) LRM data from these missions? Or are you planning major overhauls to operational products in order to capitalise on the new types of data (or future data such as wide-swath altimetry)?
- Based on R&D studies performed in the frame of Copernicus Services, various research-grade products and new algorithms show some potential for improvement (e.g. 5 Hz L3, noise-reduced SLA and SWH, coastal enhanced…). What is the interest of the user community in operating innovative or research-grade algorithms and products compared to historical 1Hz products?
- HY-2B (altimeter) and CFOSAT (nadir beam) data will be released very soon and HY-2C and 2D will be launched in 2020. Are these “collaborative” missions of interest for the operational community in addition to operational US/EU missions?

Additional Qs from program scientists

- Comment on possible impacts of 5G interference (23.8 GHz).
  - Are there additional studies needed to determine the risk to altimetry? What would we recommend?
- A stability issue identified in the S3A altimeter. What cal/val and instrument processing studies should be conducted in advance so S6/J-CS? (mostly for cal/val splinter)
- Roughly annual reprocessing planned for JCS. J1 – J3 may be ”left behind” if not reprocessed. Should these be done regularly as well?
  - (Because many are instrument-specific, might not be as many reprocessings required.)
- What orbit do we recommend for J3 after JCS tandem phase is over?
  - Interleaved? Geodetic?
- How should we best advance ALL of radar altimetry (coastal, hydrology, cryosphere)? Should we try to meet jointly with Argo? SWOT?
- How can we lower the carbon footprint of the OSTST?