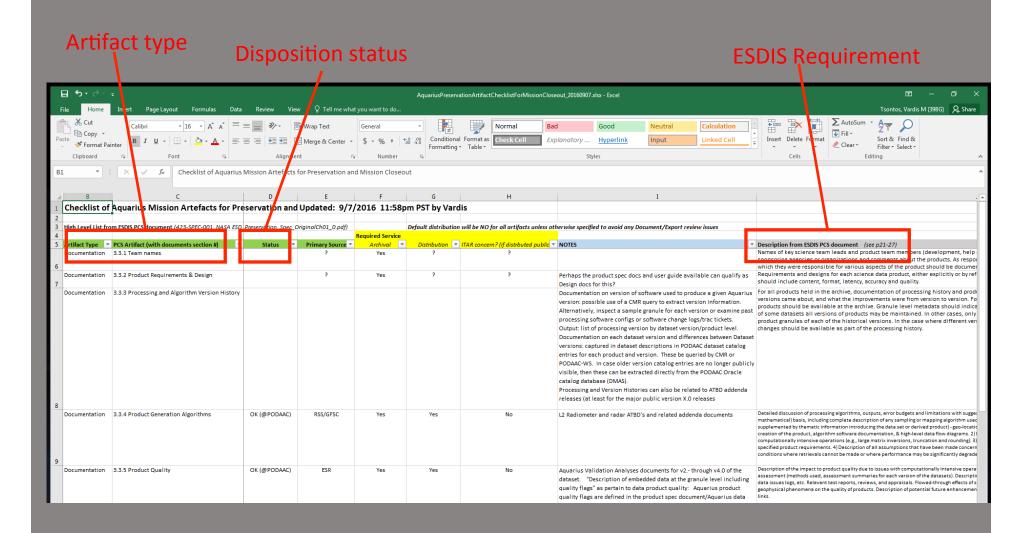
Overview & Status of the Aquarius Phase-F Preservation Task for Mission Closeout

- Reviewed NASA/EOSDIS mission preservation guidelines & recent mission decommissioning approach (TRMM)
 Artifacts beyond the science data & documentation already at PO.DAAC include a range of items:
 ancillary datasets, processing software/documentation, calibration data/documentation, etc.
- Developed a checklist spreadsheet of mission artifacts from Aquarius Phases **E-F** for preservation at the PO.DAAC (materials from phases A-D are already archived separately at JPL and not part of this)
- PO.DAAC and GSFC teams have developed a joint inventory of artifact holdings:
 - worked together to compile outstanding materials to be physically preserved at the PO.DAAC
 - or in lieu of this provide pointers to select high volume materials to be archived in place at GSFC/OB-DAAC (eg. ancillary data).
- Transfer & archive all identified outstanding artifacts to be hosted at the PO.DAAC
- Distribute any artifacts per project request
- Timelines / Milestones:
 - Mission Operations Closeout (Dec.2016.) GSFC Ops Closeout Workshop (Oct.2016)
 Artifacts: packaged downlink data from CONAE, instrument performance reports, TRAC Event logs, lessons learned, ...
 - Science Activities & Final Closeout (by Dec.2017) Artifacts: All science data & finalized documentation (ATBDs, Validation reports), cal/val meeting presentations, key publications, etc. through V5.0

Preservation Inventory Checklist mapped against NASA/ESDIS Mission Artifact Closeout Requirements



Inventory of Science Artifact Holdings: Phase E

Archived at PO.DAAC

• Documentation:

Aguarius Brochure and Mission Overview Document

Product Specification Documents: L2 & L3 Aquarius Salinity Validation Analysis document (for v2-v4 of Aquarius dataset)

Aquarius Flagging & Masks document (for v3-v4 of Aquarius dataset)

ATBDs:

- Aquarius L2 ATBD and addenda (for v2-v4 of Aquarius dataset)
- Aguarius Radar ATBD and Radar RFI algorithm document
- L3 smoothing algorithm description document

Radiometer calibration methodology with RFI algorithm description

Radar calibration report

Antenna Pattern Correction (APC) updated memo (for v3.0-v4.0 of Aquarius dataset)

Pointing correction analysis document

Aquarius Salinity Uncertainty estimation document (for v4.0 of Aquarius dataset)

Aquarius-Derived Sea Surface Density estimation document (for v4.0 of Aquarius dataset)

Aquarius Datasets & Metadata:

CalVal/Evaluation/Restricted Versions [21]: Simulated , 3.6 (61), 3.5 (67), 3.4 (67), 3.3 (67), 3.1 (67), 2.10.1 (67), 2.9.1 (49), 2.8.1 (49), 2.7.1 (28), 2.6.1 (1), 2.5.1 (28), 2.3.1 (25), 2.3 (25), 2.2 (25), 1.3.9 (9), 1.3.7 (13), 1.3.6 (13), 1.3.5 (13), 1.3.4 (13), 1.3.2 (13), 1.3.1 (15)

Public/Validated/Open Versions [3]: 4.0 (98), 3.0 (67), 2.0 (34); L0 (1), L1A (2)

Public/Validated/Registration Versions [7]: 1.0 (19), 1.1 (1), 1.2 (17), 1.2DR (13), 1.2.2 (13), 1.2.3 (15), 1.3 (15) Miscellaneous CalVal datasets/versions [8]: MWR L1 (5), MWR L2C (2), RIM (1), HYCOM (1)

Dataset and granule metadata catalogued and searchable for each of the aforementioned datasets and types

- Ancillary Datasets and Descriptions (@ADPS)
- Aquarius Processing Software and Documentation: SeaDAS (@ADPS)
-

Aquarius <u>Mission Operations</u> Artifacts for Preservation: Phase E

- Raw downlink telemetry data during Science Operations (from CONAE All at GSFC)
- Mission operations Event logs
- Instrument Performance Reports
- Lessons Learned Science Mission Operations
- Other?

Disposition of Inventory Items

- The PODAAC will physically store operations-related documentation.
- OBPG will provide <u>documents</u> to be added to PODAAC's repository of items.
- OBPG will provide <u>links</u> to software, tools, and web interfaces that will remain active.
- The final, password protected repository resides on samoa and can be accessed via Aquarius Mission website. http://aquarius.umaine.edu/cgi/sci links.htm