



National Aeronautics and Space
Administration
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QuikSCAT Full-Mission Reprocessing Plan

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QuikSCAT Reprocessing Plan

OUTLINE

- Processing system readiness
- Order of processing and data delivery --
Handling new (incoming) data vs. old data
- Documentation
- Nominal schedule

QuikSCAT Reprocessing Plan

Ready...Set...Go!

- Processing system consists of a 10-CPU Sun Enterprise 5500 (the original SeaWinds machine) and 3 dual-CPU Sun Blades (1.6 GHz), with ~6 TB of attached shared storage.
- PODAAC will stage previously delivered Level 1A files for retrieval as inputs to the reprocessing.
- Processing of data from L1B to 12.5km L2B and L30 will be largely automated by database-driven process management system.
- Output data products will be delivered back to PODAAC on tape, about 500 revs per batch.
- This processing scheme has been practiced in February 2006 to process the Beta release of CY2003 data for validation.

QuikSCAT Reprocessing Plan

The Order of Battle

- The first QSCAT data to be reprocessed will be for CY 2003, to coincide with the release of the SeaWinds (full mission) data.
- Subsequently we will start “growing” the data set backward & forward from June 2006.
 - Jan-June 2006, 2005, 2004, 2002, 2001, 2000, July-Dec 1999
- Incoming QSCAT telemetry data will be accumulated and periodically processed and delivered in “bursts” of approximately 1 data-week/week (~100 revs per batch).
- Data deliveries of reprocessed data to PODAAC will occur about once every two days (~500 revs per batch).

QuikSCAT Reprocessing Plan

Documentation

- QuikSCAT Science Data Product User Manual
 - Mission, instrument, algorithm, and data information
- Software Interface Specifications (SIS) for L1B, L2A, and L2B data.
 - Detailed definitions of the data product contents.
- Read software in Fortran, C, and IDL.
- Validation of the SeaWinds on QuikSCAT and SeaWinds on ADEOS-II 2006 New Data Products
 - Report on the new products from the OVWST assessment team.
- All documentation will be available online at PODAAC.

QuikSCAT Reprocessing Plan

You Want It *When??*

Nominal schedule

- ~July 10: System testing completed, start of reprocessing
- July 10: *Last delivery of current data processed with old algorithms.*
- ~July 17: First data should start appearing on PODAAC
Minimal/draft documentation available.
- ~July 31: CY 2003 QSCAT data available, along with most of July 2006 (July 1-10 will be included).
SeaWinds (full-mission) data public release
Final documentation online at PODAAC.
- Aug-Dec?: Reprocessing continues backward (Jan-June 2006, 2005, 2004, ..., 1999) & forward (August onward)
- Jan 2007: Routine processing and data delivery of incoming QuikSCAT data resumes