

National Aeronautics and Space Administration

Jet Propulsion Laboratory California Institute of Technology Pasadena, California







Surface Water and Ocean Topography (SWOT) Mission Science Team Meeting September 22, 2023

SWOT Algorithms and Products: Plans for ongoing operational data processing

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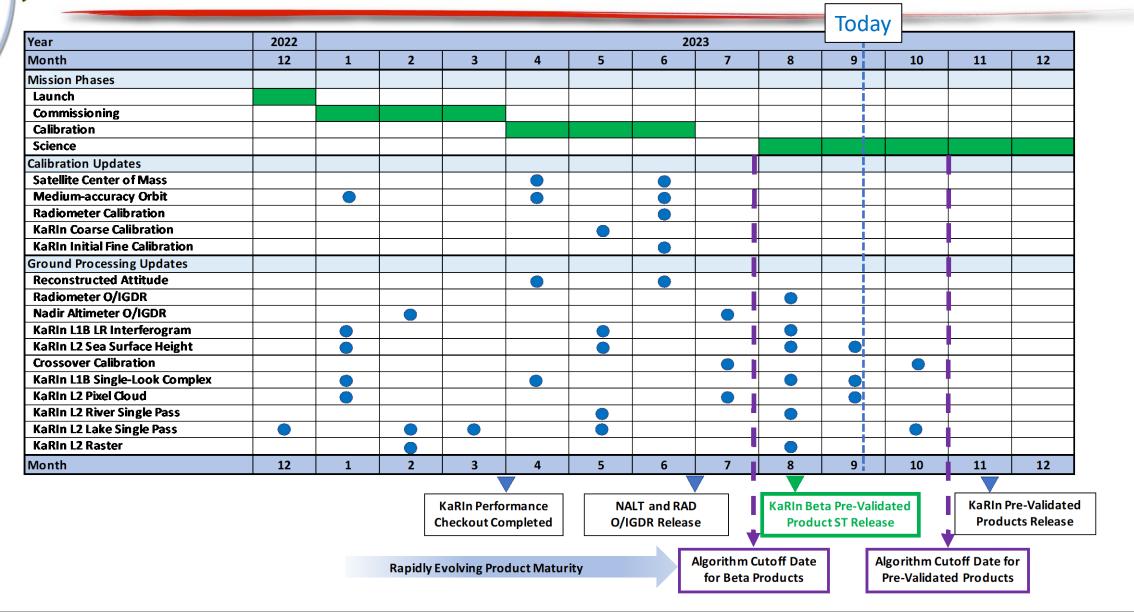
on behalf of JPL/CNES Algorithm Development Team

(1) Jet Propulsion Laboratory, California Institute of Technology

(2) Centre National d'Etudes Spatiales



Science Algorithm Software (SAS) Status



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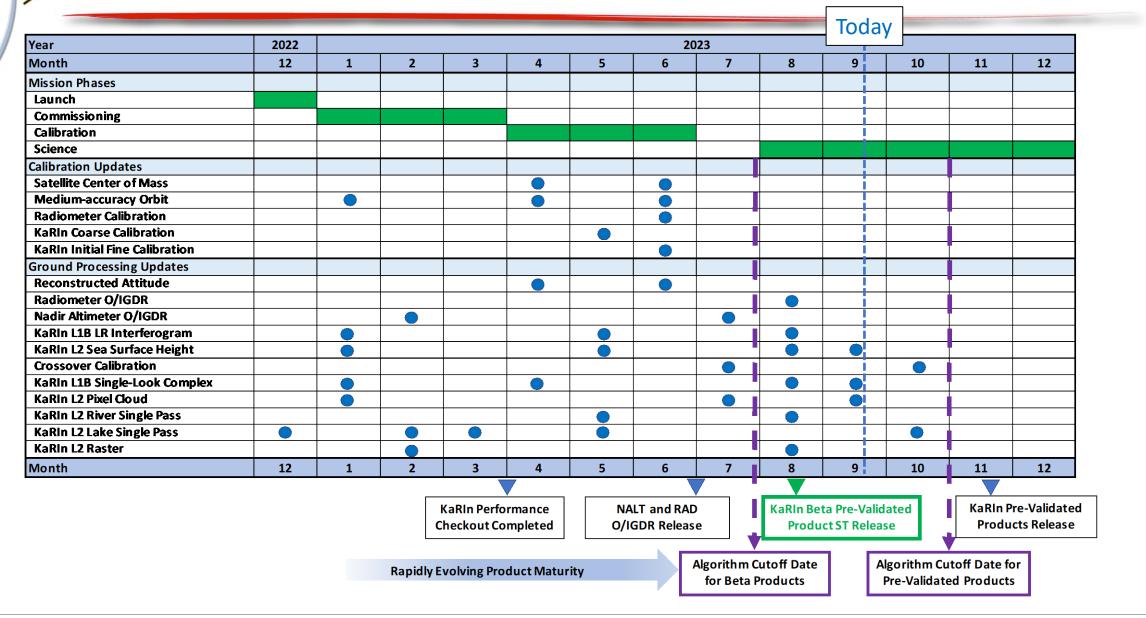
Beta Pre-Validated Science Data Products

- "Beta Pre-Validated" KaRIn science data products.
 - Added to plans due to better than expected maturity of KaRIn products (especially ocean).
 - Aimed towards familiarizing users with novel KaRIn science data products.
 - Circulated to SWOT ST, ADAC and Early Adopters teams mid September
 - Includes data from calibration phase only :
 - Entire calibration phase of KaRIn ocean products released
 - 2 weeks of ~6 passes of KaRIn hydro products

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Science Data Products: pre-validated products schedule

- New software versions likely to be in operations on CNES side by end-October – November
 - Will use most recently released versions of science algorithm software from August/September 2023.
 - Will use best available in-flight instrument calibrations for KaRIn, radiometer, and nadir altimeter.
 - Will apply various lessons learned from August 2023 reprocessing.
 - Project teams will conduct some quality assessment before releasing the products
 - Forward processing products release planned a few weeks (~4) after processing start, products will be made publicly available.
 - Full global reprocessing of all products from March 29th phase up to date when forward processing uses same algorithms
 - Products are aimed towards the SWOT validation meeting.

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Backup

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