



# ***MODIS and VIIRS Product Status***

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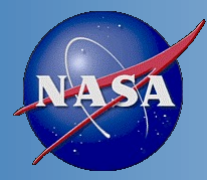
# Outline

- **MODIS (C61) forward processing Status**
- **MODIS C7 reprocessing plan**
- **VIIRS (C1 and C2) processing status**
- **Conclusion**



# MODIS C61 Forward processing

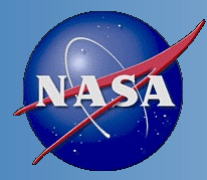
- **Leading edge of the MODIS C61 forward processing lags current day by a day or two except for maneuver days or satellite/instrument anomaly**
  - **Maneuver days are evaluated by LDOPE for geolocation error from LOPA**
  - **C61 MAIAC reprocessing yet to complete 2018 – 2021, and C62 reprocessing of DSR/PAR to start in May 2023.**
- **C6 L1 processing and land reprocessing discontinued in Feb 2023**
  - **Decommissioning of C6 products currently in planning**
- **NRT processing is all C61 and is completed typically 2 to 2.5 hours after acquisition of data for all L1 and L2 swath data products.**



# MODIS C7 Reprocessing Plan (Tentative)

- **C7 MODIS L1B (Jan 2024 – June 2024)**
  - MODIS L1B algorithm changes and LUT delivered by MCST
  - Integration of C7 L1 PGEs and downstream select set of C61 L2 atmosphere and land PGEs completed
  - Science test in progress for atmosphere, expected to complete in May 2023.
  - Science test for land expected to start in May 2023
  - Geolocation change delivery in June 2023
- **C7 Atmosphere reprocessing (early 2024 – fall 2024)**
  - Algorithm change delivery and integration in progress
- **C7 Land reprocessing (late 2024 – early 2026)**
  - Currently in planning
- **Factors driving the collection reprocessing schedule**
  - Science Team funding
  - Number of changes and change delivery
  - Science tests at SCF and MODAPS

**Details at Panel 4: MODIS Collection V7 and End of Mission processing**



# VIIRS (C1 and C2) Processing Status

- **SNPP VIIRS (C1 and C2)**
  - Leading edge lags current day by a day or two except for maneuver days
  - C2 reprocessing of L1 completed in Aug 2022
  - C2 land reprocessing completed recently for the mission period 2018 – current date. Reprocessing of early mission period in progress.
  - C1 processing to continue for at least six months after completion of C2 reprocessing (i.e. through at least end of 2023)
- **J1/NOAA-20 VIIRS (C2)**
  - Processing of L1 and land products in AS 3194 as experimental version, never released to public. To be decommissioned in May 2023.
  - C2 and C2.1 version of L1 available to public. C2 version of L1 to be decommissioned soon.
  - C2 land reprocessing completed recently – used C2.1 version of L1.
- **J2/NOAA-21 VIIRS (C2)**
  - Processing of L1 and land products in progress in AS 4014 of LAADS – products are experimental and use C2 algorithms and VCST delivered incremental versions of LUTs.
  - Operational C2 reprocessing of L1 and land products for public release is pending LDOPE and land science team's evaluation and approval of L1 and land product performance.



# Conclusion

- **MODIS (Terra, Aqua and Combined)**
  - C61 Forward processing is nominal.
  - C7 L1 reprocessing expected to start early 2024, followed by atmosphere and land.
- **VIIRS (SNPP)**
  - Forward processing includes C1 and C2.
  - C2 land reprocessing of 2018 – current completed, early mission period of SNPP in progress.
  - C1 processing to be decommissioned end of 2023 or early 2024.
- **VIIRS (J1/NOAA-20)**
  - C2.1 L1 is the latest version available to public.
  - Recently completed C2 land reprocessing used C2.1 L1 products.
- **VIIRS (J2/NOAA-21)**
  - Experimental version of L1 and land products in AS 4014
  - Reprocessing of operational C2 version of L1 and land product for public release is awaiting science teams review and approval of L1 and land product performance.