

Beat/Provisional maturity for JPSS Risk Reduction Products

JPSS Risk Reduction: Uniform Multi-Sensor Clouds, Aerosols, and Cryosphere Algorithms for Consistent Products.

Beta ~ CDR; Provisional ~ ARR

CDR: Critical Design Review

ARR: Algorithm Readiness Review

Aerosol Products:

- Aerosol Detection
- Aerosol Optical Depth
- Aerosol Particle Size

Volcanic Ash Products:

- Volcanic Ash Mass Loading and Height

Cloud Products:

- Cloud Mask
- Cloud Phase/Type
- Cloud Height (Algorithm: ACHA. Products: Cloud Top Height/Temperature/Pressure)
(Cloud Base Height is intermediate data product of ACHA;
Cloud Cover Layer is the output product of ACHA)
- Daytime Cloud Optical and Microphysical properties
- Nighttime Cloud Optical and Microphysical properties

Cryosphere Products:

- Binary Snow Mask
- Fraction Snow Cover
- Ice Surface Temperature
- Ice Concentration & Cover
- Ice Age/Thickness

Algorithm Readiness/Validation sections (Provisional slides):

- VIIRS Clear Sky Mask: slide 318 - 329
- VIIRS Cloud Phase/Type: slide 330 - 352
- VIIRS Cloud Height (Cloud Top Height/Temperature/Pressure): slide 353 - 366
- VIIRS Daytime Cloud Optical and Microphysical Products: slide 367 - 395
- VIIRS Nighttime Cloud and Optical Properties: slide 396 - 409



Read-me for Data Users

- VIIRS Aerosol Optical Depth and Aerosol Particle Size: slide 410 - 421
- VIIRS Aerosol Detection: slide 422 - 433

- VIIRS Volcanic Ash: slide 434 - 445

- VIIRS Ice Concentration: slide 448 - 458
- VIIRS Ice Surface Temperature: slide 459 - 470
- VIIRS Ice Thickness and Age: slide 471 - 481
- VIIRS Binary Snow Cover: slide 482 - 497
- VIIRS Snow Fraction: slide 498 - 522