NASA/NPOESS NPP - 24 IORD EDRs

MISSION AREAS

- Atmosphere
- Land
- Space Env.
- Climate
- Ocean
- RDR/SDR Only

VIIRS

- Albedo (Surface)
- Cloud Base Height
- Cloud Cover/Layers
- Cloud Effective Part Size
- Cloud Optical Thickness
- Cloud Top Height
- Cloud Top Pressure
- Cloud Top Temperature
- Land Surface Temp 1
- Surface Type
- Ocean Color/Chlorophyll 2
- Suspended Matter
- Vegetation Index
- Aerosol Optical Thickness
- Aerosol Particle Size
- Ice Surface Temperature 3
- Imagery 3 ○
- Sea Ice Characterization 3
- Snow Cover/Depth 3
- Sea Surface Temperature 3 ○

CrIS/ATMS

- ATM Vert Moist Profile 4 ○
- ATM Vert Temp Profile 4 ○
- Pressure (Surface/Profile) 4

OMPS

- O_3 Total Column (also CrIS)
- O_3 Profile

CERES

- Down LW Radiance (Sfc)
- Down SW Radiance (Sfc)
- Net Solar Radiation (TOA)
- Outgoing LW Rad (TOA)

KEY

○ = NPOESS Key Performance Parameters

NOTES

1. Precision limited by emissivity knowlege
2. Uncertainty degraded due to sensor limitations
3. No “all weather” capability
4. HCS limitation in cloudy conditions