

LANCE Enhancements

Products Approved / Added to LANCE

Product	Instrument	Date added	Short name	Notes / DOI
SMAP	SMAP	October 2022	SPL1BTB_NRT SPL2SMP_NRT	https://www.earthdata.nasa.gov/learn/find-data/near-real-time/smap
ICESat-2 sea ice height, land and vegetation height, atmospheric layer characteristics, sea ice freeboard, and inland water surface heights	Advanced Topographic Altimeter System (ATLAS) ICESat-2	March 2022	ATL07QL ATL09QL ATL8QL ATL10QL ATL13QL	https://www.earthdata.nasa.gov/learn/find-data/near-real-time/icesat2-nrt
NRT Flood (1-3 day product)	MODIS (Aqua and Terra)	Expected Fall 2020	MODWD_L3_NRT	MCDWD_L3_NRT.061
Black Marble Additional Blue/Yellow Composite (Day/Night Band) added to GIBS at the request of NASA Disasters. The FCC uses the VIIRS at-sensor radiance and the brightness temperatures from the M15 band.	VIIRS (S-NPP)	January 2021	VNP46A1_NRT	DOI landing page for VNP46A1_NRT Earthdata article on Black Marble Nighttime Blue/Yellow Composite Product
Dark Target	VIIRS (S-NPP)	January 2021	AERDT_L2_VIIRS_SNPP_NRT	VIIRS/Suomi NPP Dark Target Aerosol L2 6-Min Swath 6km (NRT) doi:10.5067/VIIRS/AERDT_L2_VIIRS_SNPP_NRT.011
L2 Surf Temp	VIIRS	Expected Fall 2022		VIIRS 375m Land Surface Temperature (from ROSES 2000, A.33) is expected to be operational on NRT by end of this year.
Rain (Global Swath Surface Precipitation)	AMSR2	June 2020	AU_Rain_NRT_R01	
Global Swath Ocean	AMSR2	June 2020	AU_Ocean_NRT_R01	NRT AMSR2 Unified L2B Global Swath Ocean Products
Snow Water Equivalent	AMSR2	March 2019	AU_DySnow_NRT_R02	NRT AMSR2 Unified L3 Global Daily 25 km EASE-Grid Snow Water Equivalent
Deep Blue Aerosol	VIIRS (S-NPP)	February 2020	AERDB_L2_VIIRS_SNPP_NRT	ED Article - VIIRS Atmosphere
Cloud Mask	VIIRS (S-NPP) VIIRS (NOAA-20)	February 2020	CLDSK_L2_VIIRS_SNPP_NRT	VIIRS/Suomi NPP Cloud Mask L2 6-Min Swath 750m (NRT) doi:10.5067/VIIRS/CLDSK_L2_VIIRS_SNPP_NRT.001 VIIRS/NOAA-20 Cloud Mask L2 6-Min Swath 750m (NRT) doi:10.5067/VIIRS/CLDSK_L2_VIIRS_NOAA20_NRT.001
Active Fire	VIIRS (NOAA-20)	January 2020	VJ114IMG_TDL_NRT	C2 available in FIRMS
MAIAC	MODIS	June 2019	MCD19A1_I2/3N	ED Article - MAIAC
MODIS Volcano Alert	MODIS	April 2019	MODVOLC	https://modis-land.gsfc.nasa.gov/modvolc.html
L1 and Corrected Reflectance imagery	VIIRS (NOAA-20)	June 2019		NASA VIIRS L1B Product User Guide
Nadir Mapper Aerosol	OMPS	Fall 2019	NMMIEA-L2-NRT	OMPS/NPP Nadir Mapper Near UV Aerosol Index Product 1-Orbit L2 Swath 50x50km NRT
Sulfur Dioxide PCA**	OMPS	Fall 2019	NMSO2-PCA-L2-NRT	OMPS/NPP PCA SO2 Total Column 1-Orbit L2 Swath 50x50km NRT

PyroCmb	OMPS	Fall 2018	Imagery only	ED Article - extension of AI signal (usual range 0-5) this goes to 55 to capture PyroCb events
Sea Ice	AMRS2	July 2018	AU_SI12_NRT_R04 (12.5km) AU_SI25_NRT_R04 (25km)	AMSR2 standard Sea Ice algorithm integrated in to LANCE
LIS (ISS)	LIS	March 2018	isslis_v1_nrt isslisg_v1_nrt	LIS ISS Webinar