

Production Number: JPSS1_C2_NASA_L1_Production_Plan

Date Initiated: 05/23/19

Date Updated: 05/29/19 – updates highlighted

Discipline: NASA L1s

Production Title: JPSS1 NASA VIIRS L1 C2 Production

Objective: This production run will execute the JPSS1 NASA VIIRS L1 codes: PGE500/L1A, PGE501/Geolocation, and PGE502/L1B using LUTs provided by the GEO team and VCST.

Geolocation LUT to be used for January 2018 – March 18, 2019 is:
VIIRS_J1_GEO_LUT_v3.0.0.3-RPY6_vcst.nc

Geolocation LUT to be used for March 19, 2019 – May 13, 2019 is:

VIIRS_J1_GEO_LUT_v3.0.0.3_20190319_vcst.nc

NOTE that PGE501 v3.0.18 PGE501.pl script is configured to determine appropriate LUT to stage for use based on the granule start time versus the YYYYMMDD in the filename and will switch to the second GEO LUT when processing data for 3/19/19 or later.

Calibration LUTs provided by VCST for start of reprocessing:

VIIRS_J1_CAL_DNB_DYNAMIC_LUT_20180106_20190622_v3.0.0.5_20190429_vcst.nc

VIIRS_J1_CAL_RSB_DYNAMIC_LUT_20171213_20190629_v3.0.0.5_20190429_vcst.nc

VIIRS_J1_CAL_STATIC_LUT_v3.0.0.5_20190429_vcst.nc

VIIRS_J1_CAL_STRAYLIGHT_DYNAMIC_LUT_20180117_20190404_v3.0.0.5_20190429_vcst.nc

VIIRS_J1_CMN_LUT_v3.0.0.5_20190429_vcst.nc

Once past 2019-04-29 in data processing, if newer Calibration LUTs exist, they will automatically be staged, if appropriate. For example, the next set of Calibration LUTs provided are named:

VIIRS_J1_CAL_DNB_DYNAMIC_LUT_20180106_20190831_v3.0.0.6_20190523_vcst.nc

VIIRS_J1_CAL_RSB_DYNAMIC_LUT_20171213_20190817_v3.0.0.6_20190523_vcst.nc

VIIRS_J1_CAL_STATIC_LUT_v3.0.0.6_20190523_vcst.nc

VIIRS_J1_CAL_STRAYLIGHT_DYNAMIC_LUT_20180117_20190602_v3.0.0.6_20190523_vcst.nc

VIIRS_J1_CMN_LUT_v3.0.0.6_20190523_vcst.nc

The start use date for the 2nd set of LUTs is 2019-05-23, so data for day 5/23/19 and beyond, these newer LUTs would be staged for use.

Production Period - Initial:

Initial period with above GEO LUTs is from 2018005 – 2019133

Production Period – Follow on:

Once new GEO LUT(s) are received from Geolocation team, if those LUTs were not used in forward processing stream, then the data period from 2019060 to the leading edge should be reprocessed with supplied LUTs. Add on reprocessing will be coordinated with LSIPS Integration Lead and LSIPS Data Analyst as GEO LUTs become available.

Machine/Archive Set: ArchiveSet 5200 on ops4

Input DataSet: Will need L0 and Ancillary data, as defined below

Actions: (special notes or processes)

Establish a clone of the following data from AS5000 into the production archive:

VIIRSJ100TSCI
VIIRSJ100T000
VIIRSJ100T008
VIIRSJ100T011
USNOPW_VGD

Recipes/PGEs for use in Processing:

Recipe	Start/End Profile	Version	PGE	PGE Version	PGE Name
VJ1_00m7	1/1	2.0.1	595	2.0.1	L0 Merger/Splitter
VJ1_0m7	1/1	2.0.1	500	3.0.6	L1A
VJ1_1Vam7	1/1	2.0.3	501	3.0.18	Geolocation
VJ1_1bm7	1/1	2.0.4	502	3.0.18	L1B
			502B	3.0.18	L1B Browse
			560	1.0.9	Control Point
			592	2.0.0	CERES Subsetter

NOTE:

All Recipes use start/end profiles of 1.

Output products to be sent to LAADS Permanent Archive:

VJ102DNB
VJ102DNBC
VJ102GDC
VJ102IMG
VJ102IMGC
VJ102MOD
VJ102MODC
VJ102OBC
VJ103DNB
VJ103IMG
VJ103MOD
VJ1GCP
VB102IMGT
VB102MODT
VB102IMGR
VB102MODR

To do before starting:

Setup Standing Order for the CERES subsetter output to go to CERES team. ESDT is VJ10203IMD_SS.

Setup Standing Order for coarse products to go to LDOPE to receive coarse products: VJ102DNBC, VJ102IMGC, & VJ102MODC

Setup Standing Order for control point, VJ1GCP, to go to Gary Lin

NPP Test Group Notes

Changes to Test Plan:

Final Plan Approved by:

Date:

Test Started:

Test Completed:

Verified in LAADS

Production Notes:

***Additional Processing Notes:

Test Results:

Data Set Removal Information

Date:

Approved by: