Test Number: AS3333_SNPP_C2_Checkout

Test Definition Date: 08/12/20

Test Revision Date:

Discipline: Calibration

Test Title: Calibration SNPP LUT checkout

Test Objective: This test will process the SNPP data using the C2 calibration and GEO LUTs and a PolarWander file for start date of 7/31/20, with L1A, GEO and L1B code containing latest code revisions from L1WG, over 2 16-day periods plus one maneuver data day to evaluate changes and their impact to downstream PGEs.

Data Time Intervals:

2013-346
2019-001 to 2019-016
2019-193 to 2019-208

Machine/Archive Set: ops5, AS3333

Related Test(s): ops5, AS3314

Baseline DataSet(s):

Input DataSet:

From AS1 in LAADs for both test archives
Will need the following for above test periods plus 2 hours on either side.
VIIRSNP00T000
VIIRSNP00T008
VIIRSNP00T011
VIIRSNP00TSCI

USNOPW_VGD PGE_StartTime of 7/31/20 only

NCEP_GFS03_VGD
NCEP_GFS06_VGD
NCEP_GFS09_VGD
NCEP_GFS12_VGD
NCEP_GFS15_VGD
NCEP_GFS18_VGD
NCEP_GFS21_VGD
NCEP_GFS24_VGD
NISE

MYD13A2 (same set as used on ops4 AS5000 for 2017/2018 processing)
NPP_QMMVIIPS_L3 (start time is 1/1/15)

NPP_QSTIPS_L3 (start time is 1/1/15)
NPP_QSTLWMIPS_L3 (start time is 1/1/15)

Recipes/PGEs to be used for Processing:

Note: the VNP_00m7 should be run starting at 23:48 the day before each test period through 00:12 the day after each test period.
The VNP_0m7 should be run starting at 23:54 the day before each test period through 00:06 the day after each test period.
Stage both VNP_L1bm7 and VNP_L1dm7 for each data day. The first day of each period, plus the single maneuver day, the VNP_L1bm7 will need to be forced due to now daily persistent fire file from prior data day.

Recipe	Start/End Profile	Version	PGE	PGE Version	Description
VNP_00KFm7	1/1	1.0.6	PGE599	1.06	Kalman Filter
VNP_00Fm7	1/1	2.0.5	PGE595	2.0.5	L0 Splitter
VNP_0m7	1/1	3.0.8	PGE500	3.0.10	L1A
VNP_1Vam7	1/1	3.0.22	PGE501	3.0.28	Geolocation
VNP_1bm7	1/1	3.0.28	PGE502	3.0.26	L1B
			PGE502B	3.0.26	L1B Browse
			PGE560	2.0.3	Control Point
			PGE592	2.0.1	CERES subsetter
			PGE591	2.0.1	Geolocation Light
VNP_S1m7***	1/1	2.0.1	596	2.0.1	Snow Ice Seed Generator
VNP_S2m7***	1/1	2.0.1	597	2.0.1	VI Seed Initiator
VNP_S3m7***	1/1	2.0.2	598	2.0.2	VI Seed Generator
VNP_AWm7	1/1	2.0.1	506	2.0.1	Area Weight
VNP_GGNm7	1/1	2.0.1	550	2.0.1	NCEP granulation
VNP_GGMm7	1/5	2.0.3	553	2.0.3	Grid-to-Gran
VNP_L1m7	1/1	2.0.3	530	2.0.3	750m Fire
VNP_L1bm7	1/1	2.0.12	510	2.0.4	375m Fire
VNP_L1dm7	1/1	2.0.12	510D	2.0.4	375m Fire Daily Perst Fire
VNP_L2m7	1/1	2.0.31	503	2.0.6	Cloud Mask
			505	2.0.1	Ice Surface Temp
			507	2.0.4	Snow Cover
			508	2.0.3	Sea Ice
			620L2	2.0.5	GIBS
VNP_L3m7	1/1	2.0.26	504	2.0.4	AOT
			511	2.0.8	L2 LSR
			590	2.0.1	Aeronet/Belmanip Subset
			509	2.0.4	L2 DNB Refl
VNP_L4m7	1/1	2.0.7	616	2.0.1	L2 LST
			620L4	2.0.5	GIBS
VNP_L5m7	1 / 2	2.0.27	512	2.0.8	L2G
			512D	2.0.8	L2G DNB
			512M	2.0.8	L2G 500m

			513	2.0.4	L2G LSR
			513M	2.0.4	L2G LSR 500m
			517	2.0.2	L2G Light
			518	2.0.2	L2G Light DNB Refl
			580	2.0.0	L3 BA Intermediate
			533	2.0.1	L3 Daily LAI/FPAR
VNP_L5Em7	1 / 2	2.0.3	630	2.0.2	L2G LST
			631	2.0.1	L3 LST
VNP_L5Sm7	1/1	2.0.3	514	2.0.3	L2G Snow
			539	2.0.3	L2G Light Snow
			543	2.0.2	L3 Daily Snow
VNP_L5SFm7	1/1	2.0.1	656	2.0.1	L3 Daily CF Snow
VNP_L5lm7	1/1	2.0.16	512	2.0.8	L2G
			512D	2.0.8	L2G DNB
			513	2.0.4	L2G LSR
			517	2.0.2	L2G Light
			518	2.0.2	L2G Light DNB Refl
VNP_L5dm7	2/2	2.0.3	554	2.0.2	L3 Daily DNB
VNP_L21m7	1/1	2.0.4	575	2.0.4	LSR CMG

VCST has provided 3 sets of Calibration LUTs for use in C2 reprocessing but only the earliest set will be used as input for this test. LUT names are:
VIIRS_NPP_CAL_DNB_DYNAMIC_LUT_20120121_20200725_v3.0.1.1_20200513_vcst.nc
VIIRS_NPP_CAL_RSB_DYNAMIC_LUT_20111122_20200725_v3.0.1.1_20200513_vcst.nc
VIIRS_NPP_CAL_STATIC_LUT_v3.0.1.1_20200513_vcst.nc
VIIRS_NPP_CAL_STRAYLIGHT_DYNAMIC_LUT_20120123_20200720_v3.0.1.1_20200513_vcst.nc
VIIRS_NPP_CMN_LUT_v3.0.1.1_20200513_vcst.nc

GEO LUT:
VIIRS_NPP_GEO_LUT_v3.0.0.1_20200625_vcst.nc

NPP Production Group Notes

Changes to Production Plan:

Final Plan Approved by:
Date:

Reprocessing Started:
Reprocessing Completed:
Verified in LAADS

Production Notes:

***Additional Processing Notes:

Outputs to be synched to LAADS:
VNP03MOD
VNP03IMG
VNP03DNB
VNP02MOD
VNP02IMG
VNP02DNB
VNP02OBC
VNP02DNBC
VNP02IMGC
VNP02MODC

B_VNP09CMG
B_VNP09GA
B_VNP10
B_VNP10A1
B_VNP14
B_VNP21
B_VNP21A1D
B_VNP21A1N
B_VNP29
B_VNP30
B_VNPLG09GA
VBN02IMGR
VBN02IMGT
VBN02MODR
VBN02MODT
VBN09
VBN09CMG
VBN09GA
VBN10
VBN10A1
VBN14
VBN21
VBN21A1D
VBN21A1N
VBN29
VBN30
VBNLG09GA
VNP0203IMD_SS
VNP02DNB
VNP02DNBC
VNP02GDC
VNP02IMG
VNP02IMGC
VNP02MOD
VNP02MODC
VNP02OBC
VNP03DNB

VNP03IMG
VNP03IMGLL
VNP03MOD
VNP03MODLL
VNP04_L2
VNP04_L2C
VNP09
VNP09C
VNP09GA
VNP09GAC
VNP09CMA
VNP09CMG
VNP09G1KI
VNP09G1KIC
VNP09GHKM
VNP09GHKMC
VNP09SS
VNP10
VNP10A1
VNP10A1C
VNP10C
VNP10GA
VNP10GAC
VNP10L2G
VNP10L2GC
VNP14
VNP14C
VNP15A1H
VNP15A1HC
VNP21
VNP21A1D
VNP21A1DC
VNP21A1N
VNP21A1NC
VNP21C
VNP21GD
VNP21GDC
VNP21GN
VNP21GNC
VNP29
VNP29C
VNP30
VNP30C
VNP35_L2
VNP35_L2C
VNP39
VNP39C
VNP39GA
VNP39GAC

VNP39L2G
VNP39LG
VNP46A1
VNP46A1C
VNPAMI_L2
VNPAMI_L2C
VNPARNSS
VNPBMNSS
VNPCMLGD
VNPCMLGN
VNPDNBL2GD
VNPDNBLGD
VNPHDFSR
VNPHDFSRC
VNPLG09G1KI
VNPLG09G1KIC
VNPLG09G1KM
VNPLG09G1KMC
VNPLG09GA
VNPLG09GAC
VNPLG09GHKI
VNPLG09GHKIC
VNPLG09GMHKI
VNPLG09GMQKI
VNPLG39GA
VNPLG39GAC
VNPLGGAD1I
VNPLGGAD1M
VNPLGGADHI
VNPLGGADMHI
VNPLGGADNBD
VNPLGGAN1M
VNPLGPT1KDI
VNPLGPT1KDM
VNPLGPT1KNM
VNPLGPTDNBD
VNPLGPTHKDI
VNPLGPTMHKDI
VNPLGPTMHKNI
VNPLGPTQKDI
VNPLGPTQKNI
VNPMGADNBD
VNPMGGAD1I
VNPMGGAD1M
VNPMGGADHI
VNPMGGADHM
VNPMGGADII
VNPMGGAN1M
VNPPT1KDI

VNPPT1KDM
VNPPT1KNM
VNPPTDNBD
VNPPTHKDI
VNPPTHKDM
VNPPTIDI
VNPLGGADMHI
VNPLGGADNBD
VNPLGGAN1M
VNPLGPT1KDI
VNPLGPT1KDM
VNPLGPT1KNM
VNPLGPTDNBD
VNPLGPTHKDI
VNPLGPTMHKDI
VNPLGPTMHKNI
VNPLGPTQKDI
VNPLGPTQKNI
VNPMGADNBD
VNPMGGAD1I
VNPMGGAD1M
VNPMGGADHI
VNPMGGADHM
VNPMGGADII
VNPMGGAN1M
VNPPT1KDI
VNPPT1KDM
VNPPT1KNM
VNPPTDNBD
VNPPTHKDI
VNPPTHKDM
VNPPTIDI
VNPPTMDI
VNPSUM_L2
VNPSUM_L2C

VNP14IMG
VNP14IMGP
VNP14IMGC
B_VNP14IMG
VNP14IMGD

Production Results:

<u>Data Set Removal Information</u>
Date:
Approved by: