Test Number: AS3298_SNPP_C2_HighAerosolTest

Test Date: 12/5/19

Last Revised:

Last Rev changes:

Discipline: Land

Test Title: SNPP C2 High Aerosol Test

Test Objective: To generate L2 LSR with improvements to high aerosol flagging and use it in downstream processing to assess if improvements carry forward. Note that PGE523 in test is the version currently in forward processing in AS5000.

Test Time Interval(s):

For PGE523, in VNP_L22m7 Recipe
PGE535, in VNP_L20m7 Recipe
PGE575, in VNP_L21m7 Recipe
PGE521 & PGE534 in VNP_L10m7 Recipe
PGE525 in VNP_L12m7 Recipe
process the periods:
2018/001 – 2018/032
2018/177 – 2018/208

For all other Recipes/PGEs, process the periods:
2017/358 – 2018/039
2018/169 – 2018/215

NOTE: See special processing instructions under the table for Recipe/PGE versions for additional information.

Related Test:

Input DataSet:
Inputs from LAADS AS1 needed for 2017/357 – 2018/040 and 2018/168 – 2018/216:
VIIRSNP00T000
VIIRSNP00T008
VIIRSNP00T011
VIIRSNP00TSCI
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
USNOPW_VGD

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)

VIIRS_DNB_DB currently in AS5000 for processing on ops4, but also located on mtvs4n1 in /MODAPSops4/archive/f201/EDG/pge535_sindb_Feb2019 for use by PGE535.

From LAADS AS5000:
VNP43MDB start times of: 12/26/17 and 6/17/19
VNP43IDB start times of: 12/26/17 and 6/17/19

SNPP Recipes/PGEs to be processed:

Recipe	Start/End Profile	Version	PGE	PGE Version	PGE Name
VNP_S1m7***	1/1	2.0.0	596	2.0.0	Snow Ice Seed Generator
VNP_S2m7***	1/1	2.0.0	597	2.0.0	VI Seed Initiator
VNP_S3m7***	1/1	2.0.0	598	2.0.0	VI Seed Generator
VNP_00KFm7	1/1	1.0.1	599	1.0.1	Kalman Filter
VNP_00Fm7	1/1	2.0.4	595	2.0.4	L0 Merger/Splitter
VNP_0m7	1/1	3.0.5	500	3.0.7	L1A
VNP_1Vam7	1/1	3.0.17	501	3.0.23	Geolocation
VNP_1bm7	1/1	3.0.20	502	3.0.21	L1B
			502B	3.0.21	L1B Browse
			560	2.0.1	ControlPoint
			592	2.0.0	CERES subsetter
			591	2.0.0	Geolocation Light
VNP_AWm7	1/1	2.0.0	506	2.0.0	Area Weight
VNP_GGNm7	1/1	2.0.0	550	2.0.0	NCEP granulation
VNP_GGMm7	1/5	2.0.0	553	2.0.0	Grid-to-Gran
VNP_L2m7	1/1	2.0.11	503	2.0.0	Cloud Mask
			505	2.0.0	IST

			507	2.0.3	Snow Cover
			508	2.0.1	Sea Ice
			620L2	2.0.2	GIBS
VNP_L3m7	1/1	2.0.7	504	2.0.0	AOT
			511	2.0.3	L2 LSR
			590	2.0.1	Aeronet Subsetter
			509	2.0.0	L2 DNB SR
			620L3	2.0.2	GIBS
VNP_L21m7	1/1	2.0.1	575	2.0.1	L3 Daily LSR CMG
VNP_L5m7	1 / 1	2.0.5	512	2.0.0	L2G
			512D	2.0.0	L2G DNB/CM
			513	2.0.0	L2G LSR
			517	2.0.0	L2G Light
			518	2.0.1	L2G Light DNB Refl
			533	2.0.0	L3 Daily LAI/FPAR
VNP_L10m7	1/1		521	2.0.0	L3 8-Day LSR
		2.0.0	534	2.0.0	L3 8-Day LAI/FPAR
VNP_L12m7	1/1	2.0.0	525	2.0.0	L3 16-Day Gridded VI
VNP_L22m7	1/1	1.0.12	523	1.0.12	L3 Gridded BRDF
VNP_L20m7	1/1	1.0.7	535	1.0.7	L3 Gridded DNB BRDF

Processing NOTES:

- S1m7 will need to be processed for:
  - 2017/358 through 2018/038
  - 2018/169 through 2018/215
- S2m7 will need to be run for 1/1/17 and 1/1/18.
- S3m7 will need to be run for:

StartTime	EndTime
2017-12-11	2017-12-27
2017-12-27	2018-01-09
2018-01-09	2018-01-25
2018-01-25	2018-02-10
2018-06-02	2018-06-18
2018-06-18	2018-07-04
2018-07-04	2018-07-20

2018-07-20	2018-08-05

- VNP_00KFm7 should be run for:
  - 2017/357 22:00 through 2018/040 02:00
  - 2018/168 22:00 through 2018/216 02:00
- VNP_0KFm7 should be run for:
  - 2017/357 23:30 through 2018/040 00:30
  - 2018/168 23:30 through 2018/216 00:30
- VNP_0m7 should be run for:
  - 2017/357 23:48 through 2018/040 00:12
  - 2018/168 23:48 through 2018/216 00:12
- VNP_1Vam7 and VNP_1bm7 should be run for:
  - 2017/357 23:54 through 2018/040 00:06
  - 2018/168 23:54 through 2018/216 00:06
- VNP_AWm7, VNP_GGNm7, VNP_GGMm7, VNP_L2m7, VNP_L3m7, and VNP_L5m7 need to be run daily for:
  - 2017/358 – 2018/040
  - 2018/169 – 2018/216
- VNP_L20m7, VNP_L21m7, and VNP_L22m7 need to be run daily for:
  - 2018/001 – 2018/032
  - 2018/177 – 2018/208
- VNP_L10m7 and VNP_L12m7 run on 8-day periods with start/end times of:

StartTime	EndTime
2018-01-01	2018-01-09
2018-01-09	2018-01-17
2018-01-17	2018-01-25
2018-01-25	2018-02-02
2018-06-26	2018-07-04
2018-07-04	2018-07-12
2018-07-12	2018-07-20
2018-07-20	2018-07-28

Outputs to go to LAADS:

VNPT11K
VNP02MOD
VNP02DNB
VNP02IMG
VNP02GDC
VNP02OBC
VNP02MODC
VNP02DNBC
VNP02IMGC
VNP03MOD
VNP03DNB

VNP03IMG
VNP35_L2C
VNPLM_QA
VNP35_L2
VNP04E_L2
VNP04_L2
VNP04_L2C
VNPAMI_L2
VNPAMI_L2C
VNPSUM_L2
VNPSUM_L2C
B_VNP30
VBN30
VNP30
VNP30C
VNPAW
B_VNP10
VBN10
VNP10
VNP10C
B_VNP29
VBN29
VNP29
VNP29C
VNPGCP
VNP0203IMD_SS
VNP03IMGLL
VNP03MODLL
VNP_DSNICS_L3D
VNP_SNDVI_L3D
VNP_D16SNDVI_L3D
VNP_AIRTIP_L2
VNP_COZIP_L2
VNP_PRESIP_L2
VNP_PRWIP_L2
VNP_SHASIP_L2
VNP_TERRHTIP_L2
VNP_WDIRIP_L2
VNP_WSPDIP_L2
VNP_QMMVIIP_L2
VNP_QSIP_L2
VNP_QSLWMIP_L2
VNP_VNDVIIP_L2
VNP_VSNICIP_L2
VNR10_LHD_NSC
VNR10_NHD_NSC

VNR10_SHD_NSC
VNR29_L1D_SIR
VNR29_N1D_SIR
VNR29_S1D_SIR
VNR30_L1D_IST
VNR30_L1N_IST
VNR30_N1D_IST
VNR30_N1N_IST
VNR30_S1D_IST
VNR30_S1N_IST
VBN09
VNP09
VNP09C
VNP09SS
VNP39
VNP39C
VNR09_LHD_LSR
VNR09_LQD_LSR
B_VNP09CMG
VBN09CMG
VNP09CMA
VNP09CMG
VNPMGGAD1I
VNPMGGAD1M
VNPMGGADHI
VNPMGGADHM
VNPPT1KDI
VNPPT1KDM
VNPPTHKDI
VNPPTHKDM
VNP39L2G
VNPDNBL2GD
VNPMGADNBD
VNPPTDNBD
VNP09G1KI
VNP09G1KIC
VNP09G1KM
VNP09G1KMC
VNP09GHKI
VNP09GHKIC
VNP09GHKM
VNP09GHKMC
VBN09GA
VNP09GA
VNP09GAC
VNP39GA

VNP39GAC
B_VNP09A1
B_VNP09H1
B_VNP13A1
B_VNP13A2
B_VNP15A2H
B_VNP43DNBA1
B_VNP43DNBA3
B_VNP43DNBA4
B_VNP43IA1
B_VNP43IA3
B_VNP43IA4
B_VNP43MA1
B_VNP43MA3
B_VNP43MA4
VBN09A1
VBN09H1
VBN13A1E
VBN13A1N
VBN13A2E
VBN13A2N
VBN15A2HCF
VBN15A2HCL
VBN43DNBA1
VBN43DNBA3
VBN43DNBA4
VBN43IA1
VBN43IA3
VBN43IA4
VBN43MA1
VBN43MA3
VBN43MA4
VNP09A1
VNP09A1C
VNP09H1
VNP09H1C
VNP13A1
VNP13A1C
VNP13A2
VNP13A2C
VNP15A1H
VNP15A1HC
VNP15A2H
VNP15A2HC
VNP15IP
VNP43DNBA1

VNP43DNBA1C
VNP43DNBA2
VNP43DNBA2C
VNP43DNBA3
VNP43DNBA3C
VNP43DNBA4
VNP43DNBA4C
VNP43DNB_DB
VNP43IA1
VNP43IA1C
VNP43IA2
VNP43IA2C
VNP43IA3
VNP43IA3C
VNP43IA4
VNP43IA4C
VNP43IDB
VNP43MA1
VNP43MA1C
VNP43MA2
VNP43MA2C
VNP43MA3
VNP43MA3C
VNP43MA4
VNP43MA4C
VNP43MDB