

GDAAC Notes for MODIS Technical Team Meeting (5/14/98)

Weekly Highlights:

- 1) Promotion of Drop 4 to SSIT Mode (TS1) complete; checkout in progress
- 2) Integration II complete for PGE01 V2.1 (Drop 4)
- 3) PGE01-02 chain test in progress

Weekly Plan:

- 1) Integrate PGEs 1,2,3 into Drop 4 for chain testing
- 2) SDST to supply production rules information to DAAC for PGE04, 05
- 3) Continue Integration for PGEs 4, 5 into Drop 4
- 4) SDST to provide LUN-ESDT mapping for PGE11 integration
- 5) Complete Integration of PGE11 (V2.2)

GSFC DAAC Launch Readiness

PGE Name	Delivered	Integrated	Chained	Duty Cycle	Ops Readiness	Launch Readiness*	Notes
PGE01 (2.1)	4/15/98	5/8/98	in progress	100%		expected	SDST to provide error list needed for L1A launch readiness
PGE02 (2.0)	1/29/98	3/18/98	in progress	100%		expected	
PGE02 (2.1)							
PGE03	2/18/98	4/27/98		100%		expected	SDST to provide error list needed for launch readiness
PGE04	3/20/98	in progress				expected	SDST to provide error list needed for launch readiness
PGE05	3/16/98	in progress				expected	SDST to provide error list needed for launch readiness
PGE11 (2.2)	1/7/98	in progress				expected	
PGE17	4/17/98	in progress				expected	SDST to provide error list needed for launch readiness
PGE19	4/17/98	in progress				expected	SDST to provide error list needed for launch readiness
PGE09	5/7/98	in progress				expected	SDST to provide error list needed for launch readiness
PGE12	3/4/98					contingent	ECS to provide Land Tiling; SDST to provide error list needed for launch readiness
PGE13	3/2/98					contingent	ECS to provide Land Tiling; SDST to provide error list needed for launch readiness
PGE14	2/27/98					contingent	ECS to provide Land Tiling; SDST to provide error list needed for launch readiness
PGE06						expected	ECS to provide compiler upgrade
PGE20							
PGE10							
PGE49							
PGE50							
PGE53							
PGE54							
PGE69							
PGE56							
PGE16							
PGE15	2/24/98					contingent	ECS to provide Land Tiling; SDST to provide error list needed for launch readiness
PGE08	1/13/98					expected	SDST to provide error list needed for launch readiness
* 1/99 Launch		<i>contingent</i>	available if known high risk problems are addressed				
		<i>expected</i>	no known high risk obstacles for launch readiness				
		<i>demonstrated</i>	demonstrated through Ops Readiness Exercises (OREs)				

ECS-SYSTEM

STATUS: YELLOW

Problem: System installation, checkout and test procedures are maturing; documentation is being brought up to date. (Yellow).

- Drop 4.x in Test mode (TS2) and in SSIT mode (TS1).

SSIT

SSIT STATUS: YELLOW

•Problem: Intermittent problems experienced when attempting repeated runs of integrated PGEs, system stability is being addressed with GDAAC M&O and ECS/Landover. (Yellow).

- To minimize impact on MODIS science software developers and SDST regarding updates to PGEs, the DAAC and SDST have refined CM process/procedures for PGEs to expedite redeliveries from Science Team members and the TLCF in an attempt to make it easier to conform to CM without sacrificing stability.
- All PGEs received to date have been run successfully from the command line with the SDP Toolkit at the DAAC.

MAPI / SDST TK

SSIT STATUS: GREEN

- MAPI 2.3.1 upgrade received (4/6/98). Inspection, installation complete (4/13/98).
- Lien established for Error List, work-off by 7/31/98.

OCEAN_LIB

SSIT STATUS: YELLOW

Problem: DAAC cannot promote PGE to operations without error list documentation, lien pending; resolution schedule pending SDST communication with algorithm developers.(Yellow)

- Delivered 4/15/98; Inspection complete; Build complete.

PGE01

SSIT STATUS: GREEN

- > Integration II complete (5/8/98).
- Lien established for Error List, work-off by 7/31/98.

PGE02

SSIT STATUS: GREEN

- Integration II complete (3/18/98); Initial Error Testing complete (3/30/98); Additional error testing to be performed in chain testing.
- Lien established for Error List, work-off by 7/31/98.

PGE03

SSIT STATUS: GREEN

- Integration II complete (4/27/98)
- Lien established for Error List, work-off by 7/31/98.

PGE04

SSIT STATUS: YELLOW

- Delivered (3/20/98); Inspection complete (3/30/98); Integration I complete (4/6/98).
- > Integration II pending receipt of production rules information from SDST.
- Lien established for Error List, work-off by 8/31/98.

PGE05

SSIT STATUS: YELLOW

- Delivered (3/16/98); Inspection completed (3/20/98); Integration I complete (4/7/98).
- > Integration II pending receipt of production rules information from SDST.
- Lien established for Error List, work-off by 8/31/98.

PGE07

SSIT STATUS: GREEN

- Production rules information received from SDST, Integration II pending successful integration of PGE01 (4/2/98).
- Lien established for Error List, work-off by 8/31/98.

PGE08**SSIT STATUS: GREEN**

- Production rules information received from SDST, Integration II in progress (4/14/98).
- Lien established for Error List, work-off by 9/30/98.

PGE09**SSIT STATUS: GREEN**

- > Delivered 5/7/98; Inspection in progress.

PGE10

- Initial DAP delivered 5/1/98; DAP can not be accepted due to inclusion of Ocean Library software with PGE software. By mutual agreement between SDST and DAAC, these are to be delivered as separate items.

PGE11**SSIT STATUS: YELLOW**

- Integration II pending successful integration of higher priority PGEs. (1,2,3)
- Patch delivered, regression testing from command line completed, integration in progress.
- > Mapping of LUN-ESDT from SDST needed to complete integration.

PGE12**SSIT STATUS: GREEN**

- Integration I completed (4/17/98). Integration II pending availability of tiling production rules.
- Lien established for Error List, work-off by 9/30/98.

PGE13**SSIT STATUS: GREEN**

- Integration I completed (3/31/98); Integration II pending availability of tiling production rules.
- Lien established for Error List, work-off by 9/30/98.

PGE14**SSIT STATUS: GREEN**

- Integration I complete (3/9/98); Integration II pending availability of tiling production rules.
- Lien established for Error List, work-off by 10/31/98.

PGE15**SSIT STATUS: GREEN**

- Integration I complete (3/10/98); Integration II pending availability of tiling production rules.
- Lien established for Error List, work-off by 10/31/98.

PGE17**SSIT STATUS: YELLOW**

Problem: DAAC cannot promote PGE to operations without error list documentation, lien pending; resolution schedule pending SDST communication with algorithm developers.(Yellow)

- Delivered 4/17/98; Inspection pending work-off of higher priority PGEs.

PGE19**SSIT STATUS: YELLOW**

Problem: Error List (see PGE17 description).(Yellow)

- Delivered 4/15/98; Inspection pending work-off of higher priority PGEs.

V2 SSIT AGREEMENT

- Document formally baselined (3/9/98)
- Modifications resulting from ongoing V2 SSIT being worked through CCR process.

GDAAC/MODIS SCIENCE AGREEMENT

- Need for this document was identified within the GDAAC while drafting the GDAAC/MODIS OA; this document will detail the working agreements between the GDAAC MODIS Data Support Team and the MODIS Science Team, including SDST. These interactions include QA metadata updates and interactions regarding fixes for failed PGEs, among others. Circulated for comment to MODIS & GDAAC 2/23/98.

PRODUCTION READINESS

Work days for SSIT	Best Case	Nominal Case	Actual
Inspection	1	3	3 (n=11)
Integration I	2	5	6 (n=10)
Integration II	4 (est)	8-15 (est)	18 (n=3)
Patch	1-4	3-8	4 (n=12)
Error Testing	4	8	4 (n=2)
Chain Testing	10	15	
Total	25	54	

Best Case: Little or no problems with ECS or PGE

Nominal Case: Minor problems encountered and resolved; no major blunders

Actual: Averages to date

SSIT Status Codes:

- Complete** PGE is ready to process data at launch in validation mode or ops mode
- Green** No problems or Category 1 fixes only; either no liens on PGE or liens worked post-launch
- Yellow** Problems in test; Category 2 or 3 fix pending; liens placed on PGE with workoff schedule; liens worked off by launch
- Red** SSIT has stopped; PGE will not run in its current form; fix required before testing can continue

Categories of PGE fixes at the DAAC:

- Category 1:** GDAAC SSIT staff fix the problem in the DAAC baseline, report action to SDST and continue testing.
- Category 2:** SDST directs GDAAC SSIT staff, possibly based upon GDAAC recommendation, to fix the problem in the DAAC baseline and continue testing.
- Category 3:** GDAAC SSIT staff provides Baselined Algorithm Package to SDST to port back to TLCF for bug fixes and possible retesting. SDST then makes redelivery to DAAC.

Phases of SSI&T:

- Inspection:** Delivered Algorithm Package is inspected for contents and completeness. PGE is inspected for documentation, formats, file structures, and standards compliance.
- Integration-I:** PGE is built and run from the command line. Generated data product(s) are verified with SDST supplied comparison file(s). (DAACbuild for a library)
- Integration-II:** PGE is registered into ECS, including population of PDPS database. Test data is inserted into the Data Server for staging into production. PGE execution is planned and scheduled through ECS PDPS utilizing Autosys scheduler. Generated product(s) inserted into Data Server. Generated data product is retrieved from Data Server for verification.