GDAAC Notes for MODIS Technical Team Meeting (1/22/98)

ECS

- V2 Drop 2 currently installed at DAAC
- Early SSIT elements are up and running (SSIT workstations, science processors)

--> Drop 3 installation nearly complete.
--> Scheduled availability for DAAC testing: 1/22/98
--> Phase II Integration can not be completed until Drop 3 installation is complete and system is stable

- Drop 3 is our target for full SSIT as this will include a database schema change and include updated ESDTs. The ESDTs and related files (MCFs) associated with these PGEs integrated into Drop 3 should not change from integration through launch.

PGE07

SSIT Status: Yellow
Problem: without error list documentation DAAC staff cannot take appropriate action during PGE operations, lien pending; resolution schedule pending SDST communication with algorithm developers

- Delivered (12/5/97)
- Inspection completed (12/8/97)
- Phase I Integration completed (12/13/97)
- Phase II Integration further progress pending PGE patch (12/17/97)
- Patch delivered and installed (1/20/98); regression testing underway

--> Five Category 1 fixes completed
--> Five Category 3 fixes completed
--> Three Category 3 fixes pending (Severity 2 - urgent, testing can continue)

PGE11

SSIT Status: Red
Problem: Error discovered in testing at TLCF; DAAC has no insight into nature of the problem; problem analysis underway by developer at TLCF; No schedule for redelivery

- Delivered (1/7/98)
- Inspection suspended (1/15/98)

--> Six Category 1 fixes completed
--> Two Category 3 fixes complete
--> Two Category 3 fixes pending (Severity 2)

PGE08

SSIT Status: Yellow
Problem: without error list documentation DAAC staff cannot take appropriate action during PGE operations, lien pending; resolution schedule pending SDST communication with algorithm developers

- Delivered (1/13/98)
- Inspection completed (1/15/98)
- Integration I completed 1/21/98

--> Three Category 1 fixes completed
--> One category 2 fix completed
--> Two Category 3 fixes pending (Severity 2)

V2 SSIT AGREEMENT

- In progress since 9/97
- Baseline agreement pending SDST feedback of 1/9/98
- PGEs delivered prior to mutually baselined agreement or non-compliant with agreement may require remedial work at the DAAC

CONCERN:

- PGE01 (V2.1) scheduled for delivery to DAAC late for availability at launch (4/30/98). This schedule allows for minimal testing at DAAC and little allowance for perturbations normally encountered in testing. Risk is little time for critical operability testing of PGE01 V2.1 prior to launch. System certification tests includes DAAC operability testing.
  Recommended mitigation: Prioritize resources to address known problem with geolocation algorithm, deliver PGE01 V2.1 to DAAC in time for inclusion in system certification tests (3/15/98).

BACKGROUND

SSIT status	Note
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).

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.