



SSTG Plans

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SSTG Current Drivers



- **Now**
 - **Finish current versions of PGEs**
 - **Debugging PGEs (SSTG tests, I&T tests, Production tests)**
 - **Production Rules (MODAPS scripts and loaders)**
 - **Insert problems at DAACs**
 - **Test Data Driver**
 - **Oceans SSTGer helping with Simulator/L1 issues**
 - **Backlogged PGEs**
 - **Integration of PGEs into MODAPS**
- **Later**
 - **PGE Optimization**
 - **New PGEs**



Current (at-launch) PGE Status



- **PGEs running or ready (MODAPS, GDAAC):**
30 = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 20, 21, 22, 25, 29, 43, 45, 49, 56, 57, 69, 70, 71
- **PGEs needing minor work:**
11 = 2, 6, 11, 16, 21, 23, 29, 33, 50, 53, 54
- **PGEs needing major work (mostly backlog):**
10 = 26, 31, 34, 35, 40, 41, 44, 46, 55, 60
- **PGEs for post-launch**
– (not addressed now)



Plan: L1 software



PGE 01	v2.1.2 at-launch version	6 / 99	do re
	v2.2. _ post-launch GE Onipr o vme nts	12 / 99	planned
PGE 02	v2.1.5 metadata	5 / 99	do re
	v2.2.0 MOD 02 ciscnce	6 / 99	do re
	v2.1.6 Reflectiv DL o kup T a le	6 / 2/99	do re
	v2.2.1 Rename Output() in Perl script	7 / 99	do re
	v2.2. _ at-launch version	8 / 3/99	planned
PGE 60	v2.0.1 initialization (LCP done 3//99, CP and integration planned)	8 / 1/99	planned
PGE 71	v2.0.2 initialization	6 / 99	do re



Plan: Oceans



PGE 09	v2.2.6	Miami's 5//99 delivery	6/99	done
PGE 10	v2.2.7	"error" and "write" bugs	6/2/99	done
	v2.2.8	ECS-validated MCFs	7/99	done
PGE 17	v2.1.1	proprietary water (p_water)	5/2/99	done
PGE 18	v2.0.	Reynolds SST, could not receive yet.	post-launch	planned
PGE 19	v2.1.1	Current version	5/2/99	done
PGE 20	v2.2.7	5/9 delivery from Miami	5/2/99	done
	v2.2.	SS TG detail and follow-up needed	7/1/99	planned
PGE 49	v2.2.6	5/9 delivery from Miami	6/99	done
		SS TG detail and follow-up needed	7/2/99	planned
PGE 50	v2.2.6	5/9 delivery from Miami	6/99	done
		mfll patch (5/17/99) needs to be integrated	7/3/99	planned



Plan: Oceans



PGE 5 1)	v2.1 . 7	Current version (not functional in MODAPS)	6 / 1/99	no
PGE 5 2)	v2.1 . _	MODAPS integration support, new ESD Ts	post-launch	planned
PGE 5 3	v2.2 . 6	5 / 9 deliver from Miami SS TG detail and follow-up needed	6 / 99 8 / 3/99	done planned
PGE 5 4	v2.2 . 6	5 / 9 deliver from Miami SS TG detail and follow-up needed	6 / 99 8 / 3/99	done planned
PGE 7 2	v2.0._	Monthly, do not receive yet.	post-launch	planned
PGE 7 3	v2.0._	Yearly, do not receive yet.	post-launch	planned



Plan: Oceans (Summary)



- **Now (7/99 - 8/99)**
 - **Debug failures in MODAPS (PGE20, PGE49, ...)**
 - **Perform SSTG follow-up on PGEs 20, 49, 50, 53, 54**
 - **Integrate ECS-validated MCFs and test**
 - (L2 done, L3 in progress, L4 planned)
 - **Integrate mfill patch (5/17/99) into PGE50**
 - **Sort out ESDTs, create mapping list**
- **Later (9/99 ...)**
 - **Integrate PGE18**
 - **Modify PGEs to use output of PGE18**
 - **Receive and integrate Monthly and Yearly PGEs (72 and 73)**
 - **Add 13 new ESDTs to PGEs 51 and 52**
 - **New versions of PGEs from Miami**



Plan: Atmosphere



PGE 03	v2.4.0	Metadata, ancillary inputs optimization, science	5/2/99	done
	v2.4.1	optimized kmec system reader (50% speedup)	6/1/99	done
	v2.4.2	correct MODCSR_G ESDT descriptor at ECS	7/99	planned
	v2.4.3	full implementation of CSR (with PGE 55)	9/99	planned
PGE 04	v2.3.0	Aerosol, Water Vapor MCFs	6/99	done
	v2.3.1	science code changes	8/99	planned
PGE 05	v2.0.2	Metadata	5/1/99	done
	v2.3.0	extra continental (vs. corrected) aerosol fraction L2	6/2/99	done
PGE 06	v2.3.1	L1 Br eader, bug fixes (still uses DAO inputs)	5/1/99	done
	v2.3.2	replace DAO with NCEP inputs, metadata, MCFs, science changes, bugs	7/1/99	planned
	v2.3.3	reduce CPU usage by 50%	7/3/99	planned
	v2.3.4	convert to a 4-part PGE	8/99	planned
	v2.3.5	add CSR support	9/99	planned
	v2.3.6	add NISE data inputs	post-launch	planned



Plan: Atmosphere



PGE 5 5	n/ a	desi gn (do cumentati on distributed)	6 / 2/99	do ne
	v2.0 . _	implementati on	9 / 9 9	pl anned
PGE 5 6	v2.0 . 2	metadata	4 / 3/99	do ne
	v2.0 . 3	pr oducti on rules	7 / 799	do ne
	v2._ . _	remo v pr oduct initi ali z ati on step	7 / 3/99	pl anned
PGE 5 7	v2.0 . 3	ECS-validated MCFs	6 / 999	do ne
	v2.0 . 4	pr oducti on rules (not tested in MODAPS)	7 / 799	do ne
	v2._ . _	remo v pr oduct initi ali z ati on step	8 / 999	pl anned
PGE 6 9	v2.3 . 0	ECS-validated MCFs, bu gs	6 / 899	do ne
	v2._ . _	remo v pr oduct initi ali z ati on step	8 / 3/99	pl anned
PGE 7 0	v2.3 . 3	SS TG pr ocess (tested in MODAPS: 2d a y o ut of 8)	6 / 2/99	do ne
	v2._ . _	remo v pr oduct initi ali z ati on step	9 / 9 9	pl anned



Plan: Atmosphere (Summary)



- **Now (7/99)**
 - **Finish PGE06**
 - **Fix bugs**
 - **Fix metadata for DAAC inserts**
- **Later (7/99 - 8/99 ...)**
 - **Science (PGE04)**
 - **Optimize (PGE06)**
 - **Remove product initialization step (PGEs 56, 57, 69, 70)**
 - **Redesign PGE06**
 - **Implement Clear Sky Radiance (PGE55)**



Plan: Land



PGE 07	v2.2.4	L1 Br e ale rw/ sc ales/ dffset patch, QA l o g patch	5 / 2 / 99	do ne
PGE 08	v2.2.4	L1 Br e ale r	5 / 2 / 99	do ne
	v2.2.5	patch fo rni ght mode pro blem	6 / 7 / 99	do ne
PGE 11	v2.2.13	L1 Br e ale r; bugs	5 / 2 / 99	do ne
	v2.2.14	PGE Per l cr pt, MCF na me, aded PR0 2 CRS	6 / 2 / 99	do ne
	v2.2._	Integ r ae with PR02CRS into MODAPS	7 / 3 / 99	pl anned
PGE 12	v2.1.3	Per l cr pts fo rMODAPS integ r ai on	7 / 8 / 99	do ne
PGE 13	v2.1.4	TIL E D to T leID	7 / 8 / 99	do ne
PGE 14	v2.1._	test with E CS-v aid ated MCFs	7 / 1 / 99	pl anned
PGE 15				
PGE 16	v2.1.5 ...	L1 Br e ale r	5 / 2 / 99	do ne
	v2.1.17	chang ed order of zone pro c ssing	7 / 9 / 99	do ne
		ne eds fo mal SST Gw akth r ough	7 / 1 / 99	pl anned



Plan: Land



PGE 2 1	v2.2 . 5	PGE Per l cr ipts fo rMODAPS integ r ai on	6 / 8 99	do ne
	...			
	v2.2 . 9	ECS-validated MCFs	6 / 1/ 9 9	do ne
PGE 2 2	v2.1 . 1	ECS-validated MCFs, PGE Per l cr ipts	6 / 1/ 9 9	do ne
PGE 2 3	v2.1 . 0	From ST M	4 / 8 99	do ne
	v2.1 . 1	ECS-validated MCFs, L o ck G r aul dD, p atches Ne eds fo mal SST Gw akthr ough	7 / 9 99 7 / 3/ 0 9	do ne pl anned
PGE 2 5	v2.0 . 4	Da yni ght fla g L o ck G r aul dD, pro ductio nrules	4 / 3/ 0 9	do ne
	v2.0 . 5	PGE Per l cr ipt	7 / 8 99	do ne
PGE 2 6	v2.1 . 0	From ST M	4 / 2/ 9 9	do ne
	v2. . .	Ne eds to g othr ough SS TG pr ocess	T B D	pl anned
PGE 2 9	v2.1 . 5	PGE Per l cr ipt	6 / 8 99	do ne
	v2.1 . 6	PGE Per l cr ipt	6 / 9 99	do ne
	v2.1 . 7	MCF fi le names	6 / 1/ 9 9	do ne



Plan: Land



PGE 3 1	v2.0 . 1	L o c k r a u l d D	2 / 1/99	do re
	v2.0 . 2	b u g f i x e d	2 / 2/99	do re
	v2. _ . _	N e e d s t o g o t h r o u g h S S T G p r o c e s s	T B D	pl anned
PGE 3 3	v2.1 . 4	P G E P e r l s c r i p t	6 / 99	do re
	v2.1 . 5	L o c k r a u l d D	6 / 1/99	do re
	v2.1 . 6	R e n a m e O u t p u t ()	7 / 99	do re
PGE 3 4	v2.0 . 1	F r o m S T M	1 1 // 98	do re
	v2. _ . _	N o w r e s o l v i n g p r o d u c t i o n r u l e i s s u e s	8 / 3/99	pl anned
PGE 3 5	v2.0 . 1	O l d v e r s i o n	6 / 98	do re
	v2. _ . _	N e e d s t o b e i n t e g r a t e d i n t o M O D A P S	T B D	pl anned
PGE 3 6	v2.0 . 1	P o s t - l a n c h	T B D	pl anned
PGE 3 7				
PGE 3 8				



Plan: Land



PGE 40	v2.0.3	From ST M	3 / 99	do re
	v2._._	Needs to go through SS TG process	TBD	planned
PGE 41	v2.0.0	From ST M	12 / 28	do re
	v2._._	Needs to go through SS TG process	TBD	planned
PGE 43	v2.1.2	ECS-validated MCFs	6 / 199	do re
	v2.1.3	Rename Output()	7 / 99	do re
PGE 44	v2.1.0	From ST M	10 / 28	do re
	v2._._	Needs to go through SS TG process	TBD	planned
PGE 45	v2.1.1	PGE Perl scripts	4 / 199	do re
	v2.1.3	Director path name un-hard-coded	6 / 99	do re
	v2.1.4	MCF file name	6 / 199	do re
PGE 46	v2.0.0	From ST M	4 / 299	do re
	v2._._	Needs to go through SS TG process	TBD	planned
MOD_PRSS		Resolution issue of hard-coded LUNs	7 / 309	planned
		- Integrating subsetter into PGE 21	8 / 199	planned
		- Integrating subsetter into PGE 22	8 / 309	planned
		- Integrating subsetter into PGE 25		



Plan: Land (Summary)



- **Now (7/99 - 8/99)**
 - **Get L2 and L2G running reliably in MODAPS**
 - **Integrate PGE16 into MODAPS, finish SSTG formalities**
 - **Integrate PRSS into PGEs 21, 29**
 - **Integrate PR02CRS into PGE11**
 - **PGEs 23, 34 through the SSTG process**
 - **Integrate ECS-validated MCFs and test**
- **Later (8/99 - 9/99 ...)**
 - **PGE backlog**



Current Issues



- **All**
 - Working out kinks in the revised CM and Integration processes
- **Atmosphere**
 - Production rules are in place, but need to be reviewed
- **Land**
 - Urgent emergencies interrupt progress
- **Oceans**
 - Half of Oceans team dealing with L1 issues