Semester 2005A

Execution Summary:

*Interim Report (as of late July)**

(1 Feb - 31 Jul 2005)

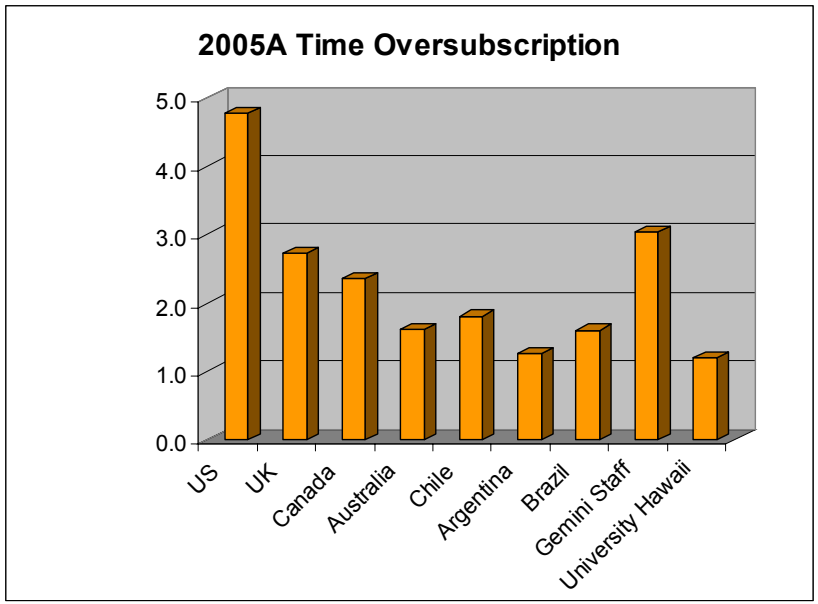
** Time accounting not complete for semester; will continue to be incomplete until queue band 1 "rollover" programs are concluded*

2005A Proposal Statistics - I

	# props	G-N requested proposals					G-S requested proposals					fraction of
		GMOS-N	NIRI	NIRI+Altair	Michelle	Keck/HIRES	GMOS-S	T-ReCS	Acq Cam	GNIRS	Phoenix	proposals
US	219	60	35	12	23		36	23	1	38	24	46.8%
UK	82	23	16	3	13	1	19	4		7	1	17.5%
Canada	50	13	7	6	1	2	14	3	1	1	2	10.7%
Australia	22	7	1	1		1	8	1		2	1	4.7%
Chile	12						8	1	1	1	1	2.6%
Argentina	8	3	1				3	1				1.7%
Brazil	22	7			1		8	2		3	1	4.7%
Gemini Staff	41	7	6	5	4		7	7		6	1	8.8%
University Hawaii	12	8	1	2	1							2.6%
totals	468	128	67	29	43	4	103	42	3	58	31	
instrument fraction		27.4%	14.3%	6.2%	9.2%	0.9%	22.0%	9.0%	0.6%	12.4%	6.6%	
fraction of GN or GS		47.2%	24.7%	10.7%	15.9%	1.5%	43.5%	17.7%	1.3%	24.5%	13.1%	

- Number of proposals and time requested up 15% over 2004B and 50% over 2004A
  - Increase at GN due to NIRI and NIRI+Altair, “taking off” at last, and Michelle
  - Increase at GS due to Phoenix and GNIRS
    - Interest in Phoenix continues to be largely from US; can cause asymmetry in completion statistics
  - GMOS-N demand holding steady; GMOS-S demand has been seasonal (GOODS/UDF etc) but now shows large increase over 2004A
- Average length of proposal time requested is unchanged over several years (~15hr)
  - Strong correlation between average time requested and partner share

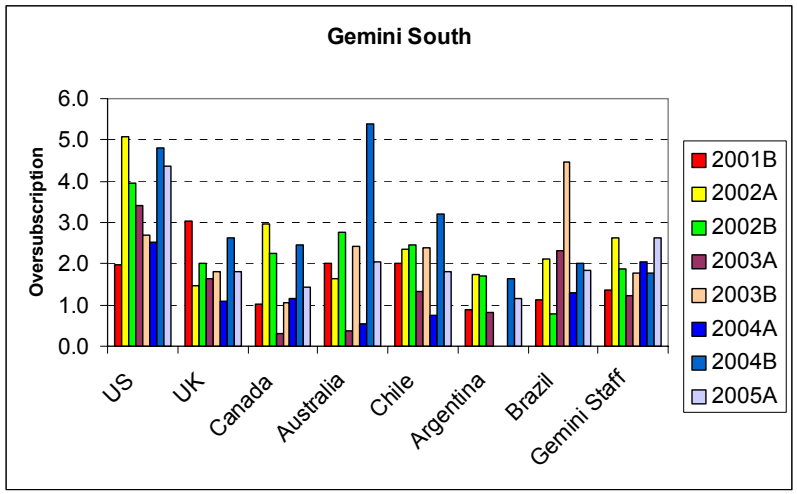
2005A Proposal Statistics - II

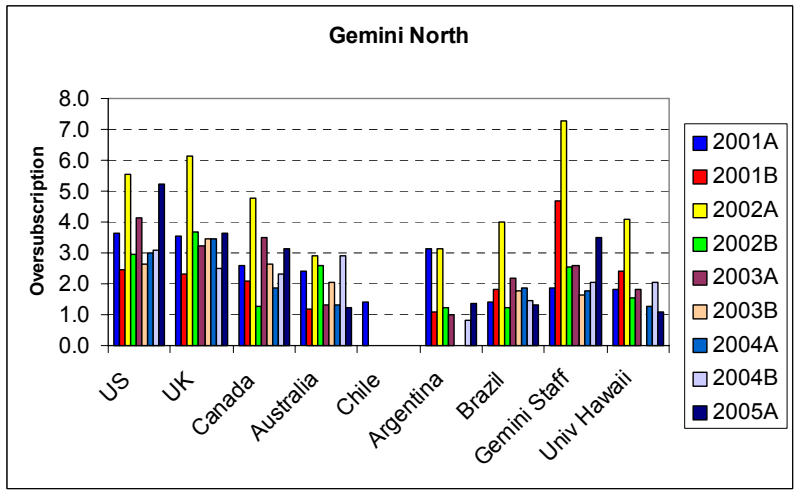


	oversub (wrt CfP)	GN tot time	GS tot time	GN oversub	GS oversub
US	4.8	2529	2366	5.2	4.4
UK	2.7	1101	532	3.6	1.8
Canada	2.4	511	248	3.2	1.4
Australia	1.6	77	116	1.2	2.0
Chile	1.8		255		1.8
Argentina	1.3	33	31	1.4	1.1
Brazil	1.6	33	52	1.3	1.9
Gemini Staff	3.0	299	256	3.5	2.6
Univ Hawaii	1.2	146		1.2	

- Average oversubscription on GS was 2.1, on GN was 2.6
  - Dominated by US; many partners have oversubscription >~2
  - Strong demand from Gemini staff
- Fraction of classical proposals was 16%
  - A record high, due largely to Phoenix being offered only in classical mode (10% ex. Phoenix)

Historical Proposal Stats





- Average oversubscriptions continue to trend upwards:
  - Gemini North = 2.5 *(weighted average is 3.1)*
  - Gemini South = 2.1 *(weighted average is 2.6)*

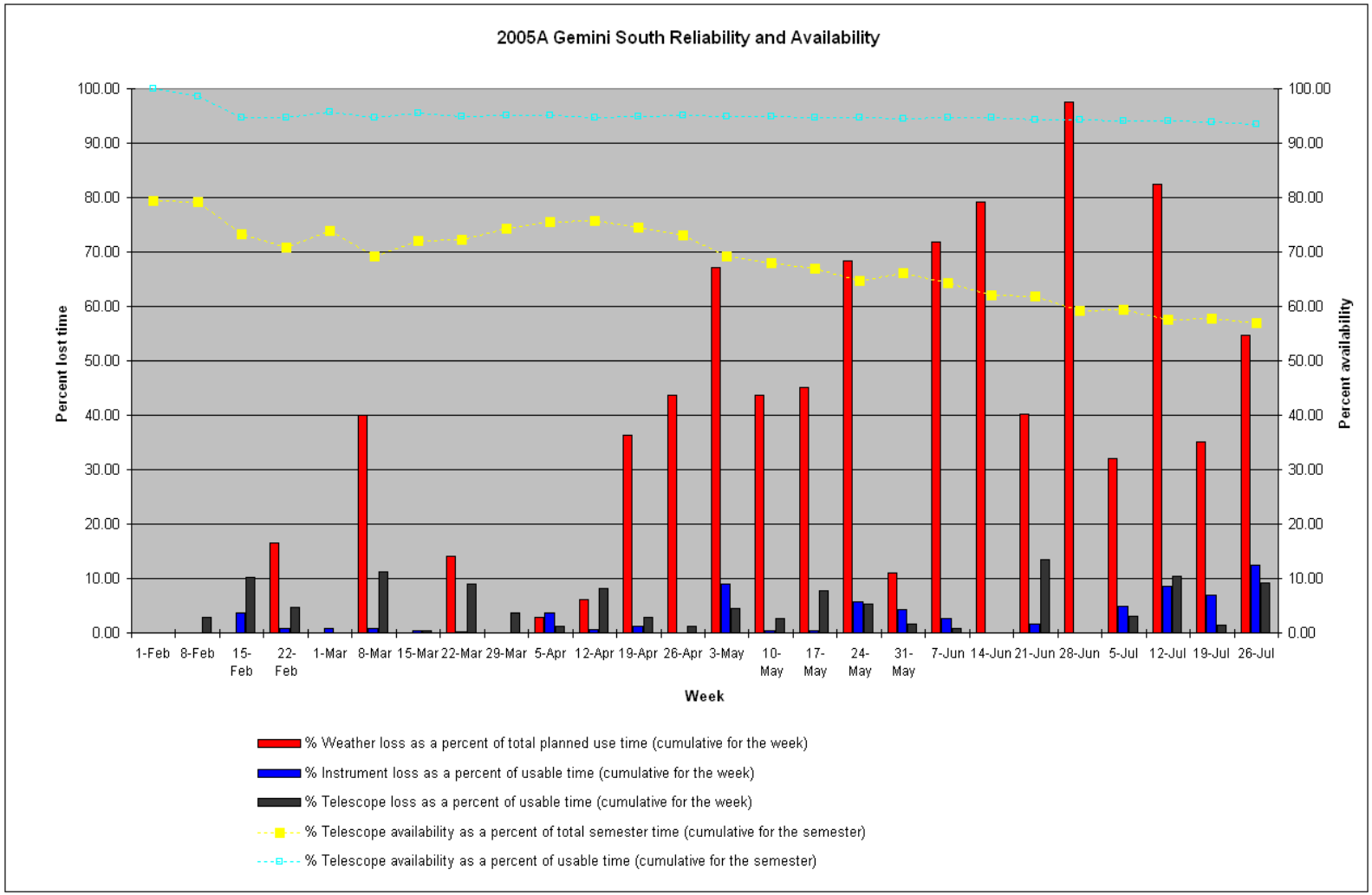
2005A Summary – Gemini South

- Science time planned for 141 nights (78% of period)
  - GMOS
    - Queue and classical modes for imaging and spectroscopy
    - Quick Response for GMOS long-slit and imaging
  - GNIRS
    - R=2000 - 18000 long slit 1-5um, 1-2.5um cross-dispersed and IFU spectroscopy, queue and classical modes until end April
  - T-ReCS
    - Imaging and spectroscopy, queue and classical
  - Phoenix
    - Classical mode only, with NOAO support
  - Acquisition Camera
    - High repetition rate only
  - Engineering and telescope shutdown (22% of period) for Hokupa'a-85 commissioning, bHROS commissioning, NICI commissioning, GMOS-S CCD commissioning

2005A Summary – Gemini South

- Science time planned for 141 nights (78% of period)
- Science time usage
  - Instruments scheduled on 164 nights (91% of semester)
  - Time accounting shows instrument usage:
    - GMOS used 372hr, GNIRS used 241hr, T-ReCS used 103hr, Phoenix used 221hr, AcqCam used 3hr
    - Total of 907hr of chargeable data (~91n), plus 34hrs of DD data
- Program execution status
  - 52 queue programs from 2005A with some data
    - 27 GMOS, 17 GNIRS, 7 T-ReCS, 1 AcqCam
    - 15 classical progs: 4 GMOS, 1 GNIRS, 10 Phoenix
  - 20hr of 04A rollover programs
  - 9hr of 04B rollover programs
  - MOS pre-imaging for 5 05A programs
  - Unexecuted Band 1 rollover into 05B totals a maximum of 39hr
    - GMOS-S (11hr), GNIRS (12hr), T-ReCS (15hr), none in ToO progs
    - Recall 04B carryover was 143hr

2005A Time Loss – Gemini South



- For semester: weather 36.1% (!!), telescope & instruments 6.6% (of usable time)

2005A Completion Statistics – Gemini South (interim report)

	Number of Queue Programs				
Band	done (100%)	>50%	10%-50%	<10%	out of
1	8	12	1	0	13
2	12	12	4	2	18
3	8	11	5	22	38

	Fraction of Queue Band			
Band	done (100%)	>50%	10%-50%	<10%
1	62%	92%	8%	0%
2	67%	67%	22%	11%
3	21%	29%	13%	58%

(see *timecharges2005A.pdf* for details)

2005A Operational Highlights - South

- Completed bHROS commissioning
  - Very lucky with clear/usable 7-night window in late July
- Introduction of electronic Obs Log for facility instruments and rapid response (< 10min achieved) for ToOs (GS and GN)
- Increasing use of mixed instrument nights in all combinations (T-ReCS/GNIRS/GMOS-S)
  - Engineering included in queue planning, including bHROS acquisition tests
- In-situ mirror wash maintains M1 Ag reflectivity/emissivity at fresh values
- Unused commissioning time (Hok-85, NICI, GMOS CCDs) returned to science
  - Hokupa'a-85 commissioning aborted - continuing issues with new DM technology
- Extremely poor weather in second half of semester
  - Weather loss 55% for last three months
  - Difficult to complete queue programs
  - Early classical runs very successful, later Phoenix and GNIRS runs virtually wiped out
  - Deep Impact event largely lost (but did get key high-rep rate observations of Charon stellar occultation with AcqCam)

2005A Summary – Gemini North

- Science time planned for 127 nights (70% of period)
  - NIRI and GMOS
    - Queue and classical modes for imaging and spectroscopy
    - Quick Response for GMOS and NIRI long-slit and imaging
  - Altair
    - NIRI 1-2.5um and L-band imaging and spectroscopy, queue and classical modes
  - Michelle
    - Imaging and R=100-3000 and echelle, queue and classical modes
  - HIRES on Keck
  - Engineering and telescope shutdown (30% of period) for NIFS commissioning, laser guide star installation, NICI acceptance

2005A Summary – Gemini North

- Science time planned for 127 nights (70% of period)
- Science time usage
  - Instruments scheduled on 161 nights (89% of semester).
  - (Interim, to 28 July) time accounting shows instrument usage:
    - GMOS used 495hr, NIRI/Altair used 368hr, Michelle used 104hr
    - Total of 891hr of chargeable data (~89n), plus 76hrs of DD data
- Program execution status
  - 52 queue programs from 2005A with some data
    - 25 GMOS, 15 NIRI, 6 NIRI+Altair, 5 Michelle, 1 mixed instrument
    - 10 classical progs: 6 GMOS, 4 Michelle (3 from Keck exchange), plus 3 HIRES on Keck
  - 68hr of 04A rollover programs
  - 46hr of 04B rollover programs
  - Unexecuted Band 1 rollover into 05B totals a maximum of 39hr
    - GMOS-N (0hr), NIRI (31hr), Michelle (8hr), none in ToO progs
    - Recall 04B carryover was ~200hr

2005A Time Loss – Gemini North

(chart not available)

- For semester: weather 22.1%; telescope & instruments 6.7% (of usable time)

2005A Completion Statistics – Gemini North (interim report)

Band	Number of Queue Programs				
	done (100%)	>50%	10%-50%	<10%	out of
1	12	14	2	0	16
2	9	14	3	6	23
3	10	12	2	19	33

Band	Fraction of Queue Band			
	done (100%)	>50%	10%-50%	<10%
1	75%	88%	13%	0%
2	39%	61%	13%	26%
3	30%	36%	6%	58%

(see *timecharges2005A.pdf* for details)

2005A Operational Highlights - North

- GMOS-N, NIRI and Altair queue executed as multi-instrument queue for entire semester.
  - Michelle added to multi-instrument queue roster mid-May
  - All science staff now cross-trained to operate all science instruments
- All queue nights planned by Queue Coordinator
- Laser guide star system installed and on-sky testing started
  - Flexible scheduling of LGS engineering nights mixed with science queue
- Telescope engineering tasks mixed with science queue from June 1 to make best use of telescope time
- Altair technical problems early in semester hampered completion rates for Band 2 Altair progs
- Unused instrument commissioning time returned to science (NIFS and NICI not ready)