



AGAP-S

C-FSJB

December 2008/January 2009

OPERATOR FLIGHT LOG

Flight Number	23	
Date (ZULU)	Jan. 5, 2009	
Pilot/Co-Pilot	Lexi/Rory	
Operator(s)	Beth	
Line Numbers	T10170.2 + T10190.2	
Start GPS and magnetic base stations at least 30 mins before takeoff. Start recording with aircraft GPS receivers at least 30 mins before takeoff.		
Event	GPS Time	Comments
GPS SJB-1	10:31	Start recording. CF Card: SJB-1 Job name: C-FSJB1-F23
		Battery charge: A: 100 % B: 100 % External: 73 %
		Available memory: 558810 KB.
		No Sat tracked: 10 L1: 10 L2: 10
GPS SJB-2	10:33	Start recording. CF Card: SJB-2 Job name: C-FSJB2-F23
		Battery charge: A: 100 % B: 100 % External: 73 %
		Available memory: 560026 KB.
		No Sat tracked: 10 L1: 10 L2: 10

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AGIS on	10:41:45	Start recording. Project name: B9010510.p41
	10:50	Engines on
	10:56	Taxi
	11:00	Takeoff
Laser on	10:45:30	Start recording. Project name: F23000.211
Radar on	10:44:	Start recording. Filename(s): F123.2009.0104234325.0000.raw ↳ can ignore other Flight 23 data before above file (from default file)
Event	GPS Time	Comments
	11:02	radar Tx on + grav batt to 'charge'
NOTE:	wires in wing tips reconfigured/wrapped before this flight to see if affected mag sensors - e start of flight, both sensors look identical + rel. noise free	
	11:10	scanner temp: -4.9°C / outside: -20.7°C / racks: 8°C
	11:20-11:21	strong offline reflectors in radar
	11:40	large mtn - start of more rugged mtns
	11:48/15:12	O2 on/off
	11:50	v. tall mtn - ~1.6 km deep & peak (photo) ↳ ~100 mT downswing over mtn
	12:01	mtns seem to be magnetic lows
	12:07:42	WP 2 - 50T T10170.2
NOTE:	after hp tanks timed off (~12:04), mag data became more hi freq.	
	12:09	WP 3 - 50L T10170.2 (~2000 ft N of line)
	12:14:20	actually got on line - smooth transition

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Event	GPS Time	Comments
	12:15	ugged mtns since turned onto line
	12:17-12:27 12:25	consistently shaped mtns + incised valley depths (photo) - some interesting ice structure layer above mtn peaks
	~12:29-12:35	slow +200 NT swing - not much correlation w/ topo
	~12:40 → EDL	much less rugged terrain - mtns / foothills ^{3-3.5} 2-3 km deep w/ lower radar reflectivity - mag still seems to be doing broad swings (e 12:52 - currently instr.) → many offline radar reflections?
	13:04:26	WP 4 EDL T10170.2
	13:05:26	WP 5 EDT T10170.2
	—	WP 6 SOT T10190.2
	13:18	v. lo bed reflectivity - > 4 km deep! (in transit to 2nd line)
	13:19:02	begin turning 1/4 WP 6 toward WP 7 to try to get onto line faster
	13:20:48	WP 7 SOL T10190.2 10190.2
	13:21:30	actually on line (Laser-F23010 radar - ~ 0196) (mag - B 90105/3, P11)
	13:24	still > 4 km deep ice! (rel. flat) (low reflectivity) ↳ gradual Δ's
	13:32	start of more rugged terrain
*	13:35	restarted laser acq. software (~5 mins. lost) (F23011.2dd → 0 kb)
	13:30-13:38	-200 NT swing (going from fairly big mtns to wide valley)
	13:51	start of large mtn (~2.5 km deep) (mag low = topo high)
	14:00-14:10	rel. level mtns - fairly rugged + squat (2.5-3 km deep deep) (photo)
	14:17/14:20	fairly large lake? (~3.5 km deep) (photo) (~2-3 km long) - second lake? (v. flat but bit hazy reflector) (~4 km long) (2 photos)
	14:27:38	WP 8 EDL T10190.2

245 km
hr
km/hr

245 km
60
4.12 km/min

Event	GPS Time	Comments
	14:28:51	WP9 EDT T10190.2 → turn toward AGAP-S
	14:30	on level course to AGAP-S
	14:36	scanner temp: -16.8°C / outside: -22.3°C / racks: 19.5°C
	14:38-14:46	steady rise in mtn elev (→ 3-2km) (photo) ↳ steady dec. in mag (1-80nT)
	14:52-14:58 14:59-15:04	rel. strong off-line reflector (centered @ 3km depth) (photo)
	15:16	scanner temp: -17.5°C / outside: -22.2°C / racks: 17°C
	15:59	radar Tx off + grow batt to 'backup'
	16:03	landing
	16:06	park & fueling str.
	16:08	AGIS off
	16:08	laser off
	16:08	radar record off
	16:27	GPS off