



AGAP-S

C-FSJB

December 2008/January 2009

OPERATOR FLIGHT LOG

Flight Number	F30
Date (ZULU)	01/07/09.
Pilot/Co-Pilot	LEXI / THE BOY
Operator(s)	BETH.
Line Numbers	1. T10210.4 + T10230.3

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	07:56.	Start recording. CF Card: Job name: CFSJB-B1-F30
		Battery charge: A: 100 % B: 100 % External: 75. %
		Available memory: 396282 KB.
	07:57	No Sat tracked: L1: 9 L2: 9
GPS SJB-2	07:58	Start recording. CF Card: Job name: AGAB-B2-F30
		Battery charge: A: 100 % B: 100 % External: 73. %
		Available memory: 354570 KB.
		No Sat tracked: L1: 8 L2: 8.

Operator Flight Log | F 30/2

AGIS on	08:30	Start recording. Project name: B9010708.P59(?) (may not be 1st file)
	8:27	Engines on
	8:30	Taxi (to fuel str)
	9:03	Takeoff
Laser on	08:29	Start recording. Project name: → stop recording @ 8:39
Radar on	09:06	Start recording. Filename(s):
→ Lost lock on both GPS's → left fuel pos. for temp parking spot to reacquire lock		
Event	GPS Time	Comments
	8:41	move from fuel pos. to temp parking pos. to wait for lock reacquisition
	8:42	park @ temp pos.
	08:45	engines off
	08:57	engines on
	08:53	GPS relocked
	08:54	laser resynched + restarted
	9:00	taxi
	9:03	takeoff
	09:06:50	radar Tx on
NOTE:	rt tip tank has always worked - left one has needed the work - appears to be working but Lexi thinks can still do both long flights w/ only 1 working tip tank	
10 satellites	09:24	scanner temp: -11.9°C / outside: -21.8°C / radio: 11°C
	9:20-9:28	large, rugged mtns (~2.5 km deep) to valleys → nice big valley b/t 2 mtns (~9:30) (photo)
	09:40	mtn just < 2 km deep → all mtns seem to have wide bed reflector (wide pulse)

Event	GPS Time	Comments
	9:50	swift -100 nT mag anomaly
	10:02:30	lake ~ 3.2 km deep - terraced (?) terraced lakes
	10:06:00	auto pilot on
	10:05	cool valley (photo)
	10:12	multiple reflectors - funny looking ice layers above mtn
	10:15:20	auto pilot off
	10:18	mtn just < 2 km deep
	10:30/11:59	O ₂ on/off
	10:20-30	large (± 100 nT) mag anomalies over rugged mtns (~2 km deep) (photo)
	10:33	still v. broad pulse (constructive interference from offline reflectors?)
11 satellites	10:33-143	several lakes c different depths (2.5-3.5 km deep)
	10:51:35	WP 3 - SOL T10210
	10:52:20	actually online
	10:55	scanner temp: -17.3°C / outside: -23.2°C / racks: 14.5°C
9 satellites	11:06	seeing frequent spikes (10-20 nT) on both mag sensors
11 satellites	11:10-11:17	3.5 km deep v. large lake! (or just sudden flattening of terrain? - bit of a slope - not flat (~10-12 km long)) ↳ another lake on other side of small mtn (several in this area) (photo) (mag spikes still frequent - mostly in sensor 1 (part))
radar File ~ .0160	~ 11:15	(photo) dip in the ice layers over lake (~3.5 km deep)
	11:19-11:23	strong offline reflectors (~3 km deep mtns) → large swags (slow) ± 200 nT in mag throughout this area
	11:36:42	WP 4 - EOL T10210

293 km/hr
~300 km/hr
5 km/min



Event	GPS Time	Comments
	~11:37:35	WP 5 - EOT & T10210
	11:53:	WP 6 - SOT T10230
	11:40-:43	large, flat surfaces (~3.5 km deep) → v. log lakes? (photo) → v. strong peak, sfc has down slope (bed s/c)
	11:45	scanner temp: -16.7°C / outside: -21.0°C / racks: 15.5°C
	11:55:05	WP 7 - SOL T10230 (just about online! ~40m off)
	11:57	both mag sensors with noisier - started on transit b/t 2 lines - pilots say nothing new on/off
	12:12	since start of line - relatively rounded mtns - less rugged (w/ side lakes)
	12:15-12:25	v. wide, flat valley w/ +20 dB spike along base (photos) (~3.5 km deep) → gradual + >200 nT swing
	12:33	~4 km long lake (~3.3 km deep)
	12:43	in mtn < 3 km deep (has been mtnous again since edge of huge valley)
	12:49:49	WP8 - EDL T10230 (more of a headwind) in this direction
	12:54:03	WP9 - EOT T10230 → turn toward ABAP N
	12:58	strong peaks in ice above mtn peak - fast +130 nT swing
	13:06	+200 nT mag swing over mtns (photo)
	13:08	- mtn < 2 km deep
	13:12-13:14	- strong off line reflectors (mag fields seem noisy)
	13:23:35	mtn ~ 1.2 km deep → continues to stay shallow
	13:43	flying over sfc crevasses (photos)
	13:47:30	from shallow mtns → deep (~2.8 km) valley (photo)
	13:50	3.5 km deep lake (small) + then almost no bed reflectivity
	13:53:38	3.8 km deep lake → no bed - just occasional deep lakes (low mag activity)
	13:57	large, crevassed bump on sfc to rt. of plane (photos)
	14:05	radar Tx off
	14:11	landing
	14:12	park @ fuel str
	14:14	AGIS, laser, radar stop record

244 km/hr
4 km/min
~40 km long!
- lake orig. just a
huge valley?

for rest of flight
still mtnous

To AGAP-N

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NR	LATITUDE (DM)	LONGITUDE (DM)	LINE	TYPE	X-LINE	DIST (nm)	COMMENT
C-FSJB				AGAP-N			MISSION PROFILE: AGAP_TieFR4
				FLIGHT 30			
1*	77° 18.21' S	76° 55.23' E		AGAP-N		169.9	TRANSIT TO NEXT WAYPT
2*	79° 56.05' S	71° 45.87' E	T10230.3	SOT		2.7	
3	79° 55.66' S	71° 30.64' E	T10230.3	SOL	L270	119.0	
4	79° 27.61' S	60° 46.88' E	T10230.3	EOL	OL	2.7	
5*	79° 26.73' S	60° 32.99' E	T10230.3	EOT		36.5	TRANSIT TO NEXT WAYPT
6*	80° 00.92' S	59° 24.24' E	T10210.4	SOT		2.7	
7	80° 01.85' S	59° 38.81' E	T10210.4	SOL	OL	119.0	
8	80° 31.57' S	70° 58.55' E	T10210.4	EOL	L270	2.7	
9*	80° 31.98' S	71° 14.71' E	T10210.4	EOT		243.1	TRANSIT TO NEXT WAYPT
10*	84° 29.40' S	77° 21.18' E		AGAP-S		0.0	
TOTAL DISTANCE (nm):						698.2	
TOTAL DISTANCE (km):						1293.0	

* = waypoint relevant for aircraft navigation.

Lead-in distance (km): 5

Flight plan created on 01/06/2009 21:32



