

AGAP-S

C-FSJB

December 2008/January 2009

# OPERATOR FLIGHT LOG

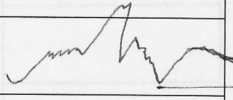
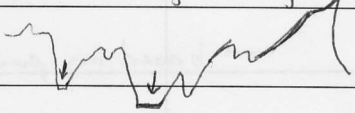
Flight Number	17
Date (ZULU)	Jan. 2, 2009
Pilot/Co-Pilot	Lexi/Rory
Operator(s)	Beth
Line Numbers	L600 (to AGAP-N)

**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	09:08	Start recording. CF Card: SJB1 Job name: C-FSJB1-F17
		Battery charge: A: 100 % B: 100 % External: 73 %
		Available memory: 521834 KB.
		No Sat tracked: 9 L1: 8 L2: 8
GPS SJB-2	09:09	Start recording. CF Card: SJB2 Job name: C-FSJB2-F17
		Battery charge: A: 100 % B: 100 % External: 73 %
		Available memory: 521930 KB.
		No Sat tracked: 9 L1: 8 L2: 8

# Operator Flight Log | F 17

AGIS on	09:29:20 <del>09:20</del>	Start recording. Project name: <del>B9010209.P29</del> B9010209.P29
	09:20	Engines on
	9:32	Taxi (rough skiway)
	9:35	Takeoff
Laser on	09:20	Start recording. Project name:
Radar on	09:27	Start recording. Filename(s): <i>(started after J. Kuff)</i>
Event	GPS Time	Comments
	9:37	radar Tx on
	9:40	reset PGU - not correct / corresponding w/ GPS waypoints
	9:45	WP 2 - SOL L600 (not online)
	9:46	WP 3 - SOL L600 (still not quite online)
	9:49	low bed reflectivity - looks to be rel. flat (ice ~ 3km thick)
	9:51	grav batt to 'charge'
	9:54	in clouds - dropping to 500 ft AGL
	9:57	better bed reflectivity (~2.5 km thick ice) prob. b/c flying lower - off-line reflections? (multiple peaks)
	10:00	~ 100 nT anomaly over funny-looking radar anomaly (from above)
	10:03	getting into more rugged mtns (still fairly wide bed pulse) (~2.5 km deep) - some clouds still b/l/o us - laser may be crappy
	10:14/10:47 11:02/12:07	O <sub>2</sub> on/off
	~10:11	small lake (> ~3.5 km deep)
	10:16	scanner temp: 0.4°C / outside: -18.6°C / racks: 20°C

Event	GPS Time	Comments
	~10:20	more rugged mtns in radar data + slow swings in mag data (mtns $\leq 2.5$ km deep)
	10:25	radar - offline reflector? (v. strong (~0.5 km apart)) (photo)
	10:29	mtn $\approx 1.7$ km deep
	10:32	large table mtn (~2 mins' worth) (photo) 
	10:37-10:42	back into some clouds
	10:47	small lake ~3 km deep
	~10:57	steep, wide valley w/ lo reflectivity (photo)
	~11:03-11:06	low radar bed reflectivity (another large valley - several lakes?) (~3.5 km deep)
	11:12	several small, deep lakes (deepest ~3.7 km deep) in valley → steep mtn on far side of valley (~50 nT mag anomaly as approach mtns)
	11:21	larger lake → 3 km deep (photo) 
	~11:27-11:35	~200 nT drop
	11:47	scanner temp: $-14.7^{\circ}\text{C}$ / outside: $-21.9^{\circ}\text{C}$ / racks: $28^{\circ}\text{C}$
	<del>11:48</del> 11:50 - ~11:58	mtns $\approx 1.5$ km deep (v. rugged) (photo) (rougher ice sfc) (1.2 km) (all mtns v. rugged + $\leq 2$ km depth)
	~12:04	large lake + flat valley (lake in entire valley?) just b/4 v. lrg mtn (L590?)
	~12:16	passing by crevasse field ~1.5 km (?) to left of L600 (on radar - 2.5-3 km deep valley + ~2 km deep mtn)
		NOTE: dunes / undulations on sfc $\perp$ to survey line
	~12:24	WP 4 - EOL L600
	~12:28	WP 5 - EOT L600 - turn toward AGAP-N
	12:31	grab batt to 'backup'
NOTE: back	$\approx 1000$ ft	AGL for past 2 hrs



TO AGAP-N

C-FSJB

AGAP-N

MISSION PROFILE: AGAP\_LineDA2

FLIGHT 17 NOTE ENTER WAYPOINTS IN REVERSE ORDER!!!!

2.5hr.  
6  
5  
4  
9.46 3  
2  
1

NR	LATITUDE (DM)	LONGITUDE (DM)	LINE	TYPE	X-LINE	DIST (nm)	COMMENT
<del>1*</del>	77° 18.21' S	76° 55.23' E		AGAP-N		43.5	TRANSIT TO NEXT WAYPT
<del>2*</del>	77° 34.22' S	80° 00.00' E	L600.1	SOT		2.7	
<del>3</del>	77° 36.90' S	80° 00.00' E	L600.1	SOL	T10310	401.2	
<del>4</del>	84° 16.13' S	80° 00.00' E	L600.1	EOL	T10090	2.7	
<del>5*</del>	84° 18.81' S	80° 00.00' E	L600.1	EOT		18.9	TRANSIT TO NEXT WAYPT
<del>6*</del>	84° 29.40' S	77° 21.18' E		AGAP-S		0.0	
TOTAL DISTANCE (nm):						468.9	
TOTAL DISTANCE (km):						868.4	

\* = waypoint relevant for aircraft navigation.

Lead-in distance (km): 5

Flight plan created on 01/01/2009 23:36

