



AGAP-S

C-FSJB

December 2008/January 2009

OPERATOR FLIGHT LOG

Flight Number	41
Date (ZULU)	Jan 10, 2009
Pilot/Co-Pilot	Lexi/Rory
Operator(s)	Beth
Line Numbers	L660 + L680

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		Start recording. CF Card: Job name:
<i>left on from previous flight</i>		Battery charge: A: 100 % B: 100 % External: 75 %
		Available memory: 456810 KB.
		No Sat tracked: 10 L1: 10 L2: 10
GPS SJB-2		Start recording. CF Card: Job name:
		Battery charge: A: 100 % B: 100 % External: 73 %
		Available memory: 456154 KB.
		No Sat tracked: 10 L1: 10 L2: 10

T10200, T10210, L470 (39)
L350, L400 (40)

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			1st TAKEOFF	2nd TAKEOFF
AGIS on	14:05:30	Start recording. Project name: B9011014.P05		15:09
left on from	previous flight	Engines on (hot refuel)	15:10	B9011015.P09
	14:09	Taxi	15:12	
	14:12	Takeoff	15:15	
Laser on	14:04	Start recording. Project name:	15:08	
Radar on	14:05:10	Start recording. Filename(s):	15:04	
Event	GPS Time	Comments		
*	14:15	radar Tx on		
	14:22	"buffer overflow" errors on radar - turned Tx off, stopped recording, r turned back toward camp		
		"gpsMain: No space left on device"		
	14:31	landing		
	14:33	park		
	14:35	laser + AGIS off		
~~~~~				
*	15:18	radar Tx on		
SEE BELOW	15:21	scanner temp: -12.5°C / outside: -23.2°C / radar: 13°C		
	15:23	"datamain_cpp: 509: Changed dog state (0)" → don't think turned off by accident but turned back on + started recording again		
	15:31	3.5 km deep bed - low bed reflectivity		
		2 SOL L660		
	15:33:27	WP 3 SOL L660 (just got online - no rerun)		
	15:40	mag is slowly oscillating ±100 nT, mtrs (low) 3-3.5 km deep (not v. rugged)		

* deleted AGIS, laser, + radar datasets from first takeoff

1st takeoff



2nd takeoff

df -h

Mounted on

1dev/1md

1db

Event	GPS Time	Comments
NOTE: Flight #		(radar) not entered in filename - I forgot to $\Delta$ it
	16:30:50	v. strong lake reflectors - huge sidelobes on peak (photo)
	16:33:	→ both mag sensors look noisy - log. wide valley w/ large lake (~4km long?) (photo)
	16:35	another lake ~3.4km deep (topo slowly deepening)
	16:43/~18:55	O ₂ on/off
	16:45	scanner temp: -8.5°C / outside: -26.9°C / racks: 17°C
	17:26	mnts becoming shallower (2-2.5km deep) ... but not for long ...
	17:30	v. wide V-shaped valley
	17:33:55	WP4 EDL L660
	17:35:02	WP5 EDT L660
		WP6 SOT L680
	17:39:05	WP7 SOL L680 (just got online)
	18:27	single, tall mtn (~2.5km deep) w/ no mag signal ↳ mtns seem to be getting more rugged (w/ $\pm 100$ nT swings)
	18:39-18:41- 18:49	strong off profile reflectors
	18:50	scanner temp: -14.6°C / outside: -26.8°C / racks: 17.5°C
	~18:57-19:05	2.5km deep consistently level mtn range
	19:30:50	WP8 EDL L680
	19:31:20	WP9 EOT L680 → turn toward AGAP-
	19:36	since thin, low bed reflectivity → flatter-topped, lower mtns (~3.4km deep)
	19:45	radar TX off
	19:49	landing (purposely wobbly approach)
	19:51	park & fueling str
	19:52	radar, AGIS, laser off





C-FSJB		AGAP-S				MISSION PROFILE: AGAP_LineDS21		
FLIGHT 41								
NR	LATITUDE (DM)	LONGITUDE (DM)	LINE	TYPE	X-LINE	DIST (nm)	COMMENT	
1*	84° 29.40' S	77° 21.18' E		AGAP-S		33.4	TRANSIT TO NEXT WAYPT	
2*	84° 18.44' S	82° 42.24' E	L660.1	SOT		2.7		
3	84° 15.76' S	82° 40.99' E	L660.1	SOL	T10090	273.5		
4	79° 43.78' S	81° 30.53' E	L660.1	EOL	T10240	2.7		
5*	79° 41.09' S	81° 30.14' E	L660.1	EOT		5.4	TRANSIT TO NEXT WAYPT	
6*	79° 40.93' S	82° 00.17' E	L680.1	SOT		2.7		
7	79° 43.62' S	82° 00.69' E	L680.1	SOL	T10240	273.5		
8	84° 15.47' S	83° 34.54' E	L680.1	EOL	T10090	2.7		
9*	84° 18.15' S	83° 36.20' E	L680.1	EOT		38.5	TRANSIT TO NEXT WAYPT	
10*	84° 29.40' S	77° 21.18' E		AGAP-S		0.0		
TOTAL DISTANCE (nm):						635.0		
TOTAL DISTANCE (km):						1176.1		

* = waypoint relevant for aircraft navigation.

Lead-in distance (km): 5

Flight plan created on 01/09/2009 17:48





