

AGAP-S

C-FSJB

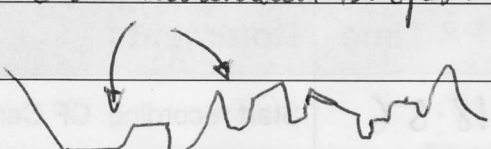
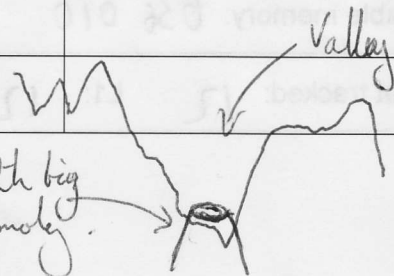
December 2008/January 2009

# OPERATOR FLIGHT LOG

Flight Number	F24
Date (ZULU)	0510112009
Pilot/Co-Pilot	
Operator(s)	
Line Numbers	

**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	18:56	Start recording. CF Card: 1 Job name: C-FSJB1-F24
		Battery charge: A: 100 % B: 100 % External: 73 %
		Available memory: 633674 KB.
		No Sat tracked: 11 L1: 11 L2: 4
GPS SJB-2	19:00	Start recording. CF Card: 2 Job name: C-FSJB2-F24
		Battery charge: A: 100 % B: 100 % External: 73 %
		Available memory: 636 010 KB.
		No Sat tracked: 12 L1: 12 L2: 12

AGIS on	19:37	Start recording. Project name: B9010519 - P37.
	19:47	Engines on Note: Port + Starboard MAG SENSORS APPEAR TO HAVE LOWER NOISE AFTER EARTH BONDING STRAP REROUTING.
	19:49	Taxi
	19:52 <sup>1517</sup>	Takeoff
Laser on	19:20.	Start recording. Project name: AGAP-F24.
Radar on FILE:011	19:59	Start recording. Filename(s): FLIGHT 24.
RADAR FILE 013	20:01	RADAR Tx ON.
<b>Event</b>	<b>GPS Time</b>	<b>Comments</b>
	20:03	FORWARD INVERTER 28.8.2V 18A (RADAR Tx) REAR INVERTER 28.1V 50A (GRAV RACK)
	20:07	CABIN TEMP 6.9°C OUTSIDE TEMP = -27°C SCANNER TEMP -10.1°C
RADAR FILE 026.	20:11	WP2/WP3
Radar File 080	20:54	Negative mag anomaly > 200nT. Odd mountain shapes. Ice depth ~ 3km
		
	21:04	FORWARD INVERTER 27.7V 16A. REAR INVERTER (GRAV RACK) 27.7V 45A.
RADAR FILES 090-095	21:05.	PEAKY CRUMP OF MOUNTAINS,
	21:21	CABIN Temp 20.6C Scanner temp 0.1°C Outside temp -29°C.
Radar files 145-150	21:48	Top of the dome - ice depth down to 3km in places. Low range of mountains in the valley.
Radar Files 164-165.	22:02.	Large positive mag anomaly over a valley (+400nT) Small cone shaped mountain in bottom of the valley.
		

Cone with big  
+ mag anomaly.

Event	GPS Time	Comments
	22:07	Forward Inverter 27.7v 16A Rear Inverter 27.6v 44A.
		Cabin temp = 23.2°C Scanner temp = -4.2°C Outside temp = -30°C.
Radar Files 180-190	22:19	Mountains ~ 1000m below surface occur suddenly after hazy file 012 along period of small mountains at ~ 3km down. Surface features evident. Swirling patterns + discontinuity lines in the ice. We are on the slope down to AGAP-N.
	22:38	Small mountains @ 3km down but almost no mag activity
Radar File 212-213	22:41	Some small pieces of internal layers have very bright reflectors. Water in the ice? near the surface??
Radar file 216	22:43	Two small dips in the radar bed are mimicked by a negative + a positive anomaly in the mag ( $\pm 50$ nT)
Radar file 218 →	23:45	Interference patterns are occurring in the ice causing waves of $\approx 10\lambda$ of the ice depth which is 3.5km. ice surface is rough + modulated with 10m waves. that we are flying orthogonally to.
	22:58	WP4/5.
Radar files 234-236	22:57	Large hole in ground. Couldn't see the bed. Internal layers drop right into it. Surface features as above
Lazer file 014	23:05	From a long period of small mag anomalies ( $\pm 50$ nT) + after the hole described above the mag is linearly trending upwards. The radar shows small features at ~ 3km depth.
	23:16	Cabin temp = 23.8°C Scanner temp = -1.3°C. outside air temp -22°C.
File 263	23:20	Radar off.
	23:27	Landed at AGAP-N.
	23:28	AGIS off @ AGAP-N
	23:28	Lazer off @ AGAP-N.

to AGAP-N

NR	LATITUDE (DM)	LONGITUDE (DM)	LINE	TYPE	X-LINE	DIST (nm)	COMMENT
1*	84° 29.40' S	77° 21.18' E		AGAP-S		35.9	TRANSIT TO NEXT WAYPT
2*	84° 18.30' S	83° 09.23' E	L670.1	SOT		2.7	
3	84° 15.62' S	83° 07.78' E	L670.1	SOL	T10090	401.2	
4	77° 36.67' S	81° 27.70' E	L670.1	EOL	T10310	2.7	
5*	77° 33.98' S	81° 27.38' E	L670.1	EOT		61.6	TRANSIT TO NEXT WAYPT
6*	77° 18.21' S	76° 55.23' E		AGAP-N		0.0	
TOTAL DISTANCE (nm):						504.1	
TOTAL DISTANCE (km):						933.5	

\* = waypoint relevant for aircraft navigation.

Lead-in distance (km): 5

Flight plan created on 01/05/2009 13:13

AGAP-N number

00-8816 414 96698

