

AGAP-S

C-FSJB

December 2008/January 2009

OPERATOR FLIGHT LOG

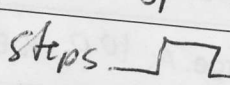
Flight Number	F32
Date (ZULU)	Jan 7, 2009
Pilot/Co-Pilot	Brian, Rebecca
Operator(s)	Michael
Line Numbers	Recovery Locus,

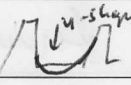
Start GPS and magnetic base stations at least 30 mins before takeoff.
with aircraft GPS receivers at least 30 mins before takeoff.

Event	GPS Time	Comments
GPS SJB-1	20:27	Start recording. CF Card: SJB1 Job name: C-FSJB1-F32
		Battery charge: A: 100 % B: 100 % External: 75 %
		Available memory: 975802 KB.
		No Sat tracked: 7 L1: 7 L2: 7
GPS SJB-2	20:29	Start recording. CF Card: SJB2 Job name: C-FSJB2-F32
		Battery charge: A: 100 % B: 100 % External: 73 %
		Available memory: 975882 KB.
		No Sat tracked: L1: L2:

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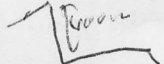
AGIS on	21:08	Start recording. Project name: AGAP-F32
	21:12	Engines on
	21:16	Taxi from parking position
	21:19	Takeoff
Laser on	21:08	Start recording. Project name: AGAP-F32
Radar on	21:09	Start recording. Filename(s):

Event	GPS Time	Comments
	21:25	radar tx on
	21:37	tip tanks on / grav bubbling left on
	21:50	UPS, became one of prime data sets on today's mission
2580	21:51	-26°C aircraft outside temp, scanner -12.5°C
		auto pilot on, flux gate channels are
		more quiet now (less aircraft movements)
		more spikes on mag 1, occasional
		steps  in flux gates.
	22:03	lots of spikes on mag 1, probably from
		auto pilot.
	22:31	tip tanks off
		very weak bed reflection
	22:39	spikes on mag 1 get much stronger
	22:54	shadows and bright spots on ice surface
		get more pronounced → anecho domes?
		mugger bed reflection is back

Event	GPS Time	Comments
	22:55-23:00	picture of ice surface change, rugged into ^{underneath}
	23:12	flat bed, same structures in ice surface
	23:17	auto pilot off $\Rightarrow$ spillover mostly gone, but in ice
		megadunes $\Rightarrow$ lots of pictures
	23:31	 into like we've seen on the 1962 radar + seismic data
	23:36	bed disappears
	23:38	file 11 laser $\rightarrow$ should have lake structure if there's _{one}
		looking ahead it seems the megadunes disappear - is this the lake?
	23:41	radar looks strange:  sudden end of internal layer $\rightarrow$ no bed or lake
	23:42	layers dip down $\Rightarrow$ no megadunes
	23:45	weak "lake like" reflector shows up 
		and some megadunes are back.
	23:48	looks like bedrock ridge.
		11 US-Nv traverse and vehicles
	23:51	can see US-Nv trans on the right as well
	52-53	flying on trans tracks; layer moving up no bed or lake reflection
	23:54	15 miles to WP 6

23:55 looks like water, big big tracks from traverse

Event	GPS Time	Comments
	23:57	
	23:58	still an "lake"; flat ice surface no dunes
	:59	3 miles from WP 6 noting
	00:00	over WP 6 turn.
	00:02	think we missed second shore line
	00:04	strange reflector continues } at 3km below
	00:08	Surface
	00:18	extremely flat bed / or lake continues.
	00:20	woops, the edge of it all (500m)
	00:20	10 miles from WP 11 / flat on top as well
	00:25	at WP 11 turn towards AGAP-S
	00:27	flat plateau still continues.., Rebecca is on half
	00:28	plateau gets lower, nicely followed by ice flow.
		see also "quiet zone" above bed extremely clear.
	00:30	
	00:32	frame visible, lots of drifted snow
	00:34	over the hump.., no lakes for sure
		→ now the flat flat, deep bed (or lake)
		is back

Event	GPS Time	Comments
	00:36	bed disappears.
	00:39	lose file 15; no crests so far -
		flying back towards mega dunes
	00:40	at the transition towards mega dunes
		this should be the "take shot line".
	00:42	very weak into deep bed bed reflection back
	01:09	rugged bed top ex, clear reflection
	01:14	auto pilot on?
	01:25	 in bedrock
	01:31	no bed reflection
	01:33	nothing is back
	01:38	auto pilot on
	???	short use of tip tanks on/off
	02:39	radio tx off landing in 4 mins.
	02:40	radio shutdown - 4
	02:45	land down
	02:46	Brian in control
	02:47	at fuel position
	02:48	AGIS off; lose alt
	03:12	leaving fuel position for F33

C-FSJB				AGAP-S				MISSION PROFILE: AGAP_TrendRS2			
FLIGHT 32											
NR	LATITUDE (DM)		LONGITUDE (DM)		LINE	TYPE	X-LINE	DIST (nm)	COMMENT		
1*	84°	29.40' S	77°	21.18' E		AGAP-S		2.7	TRANSIT TO NEXT WAYPT		
2*	84°	28.25' S	77°	46.34' E	RR04.1	SOT		2.7			
3	84°	29.40' S	77°	21.18' E	RR04.1	SOL	""	344.1			
4	84°	01.56' S	17°	51.52' E	RR04.1	EOL	""	2.7			
5*	84°	00.08' S	17°	30.09' E	RR04.1	EOT		2.6	TRANSIT TO NEXT WAYPT		
6*	83°	58.88' S	17°	52.28' E	RR05.1	SOT		2.7			
7	84°	01.56' S	17°	51.52' E	RR05.1	SOL	""	57.9			
8	84°	59.19' S	17°	31.99' E	RR05.1	EOL	""	2.7			
9*	85°	01.86' S	17°	30.90' E	RR05.1	EOT		4.5	TRANSIT TO NEXT WAYPT		
10*	84°	58.06' S	17°	04.27' E	RR06.1	SOT		2.7			
11	84°	59.19' S	17°	31.99' E	RR06.1	SOL	""	317.2			
12	84°	29.40' S	77°	21.18' E	RR06.1	EOL	""	2.7			
13*	84°	27.89' S	77°	44.17' E	RR06.1	EOT		2.7	TRANSIT TO NEXT WAYPT		
14*	84°	29.40' S	77°	21.18' E		AGAP-S		0.0			
TOTAL DISTANCE (nm):								747.9			
TOTAL DISTANCE (km):								1385.0			

* = waypoint relevant for aircraft navigation.
in distance (km): 5

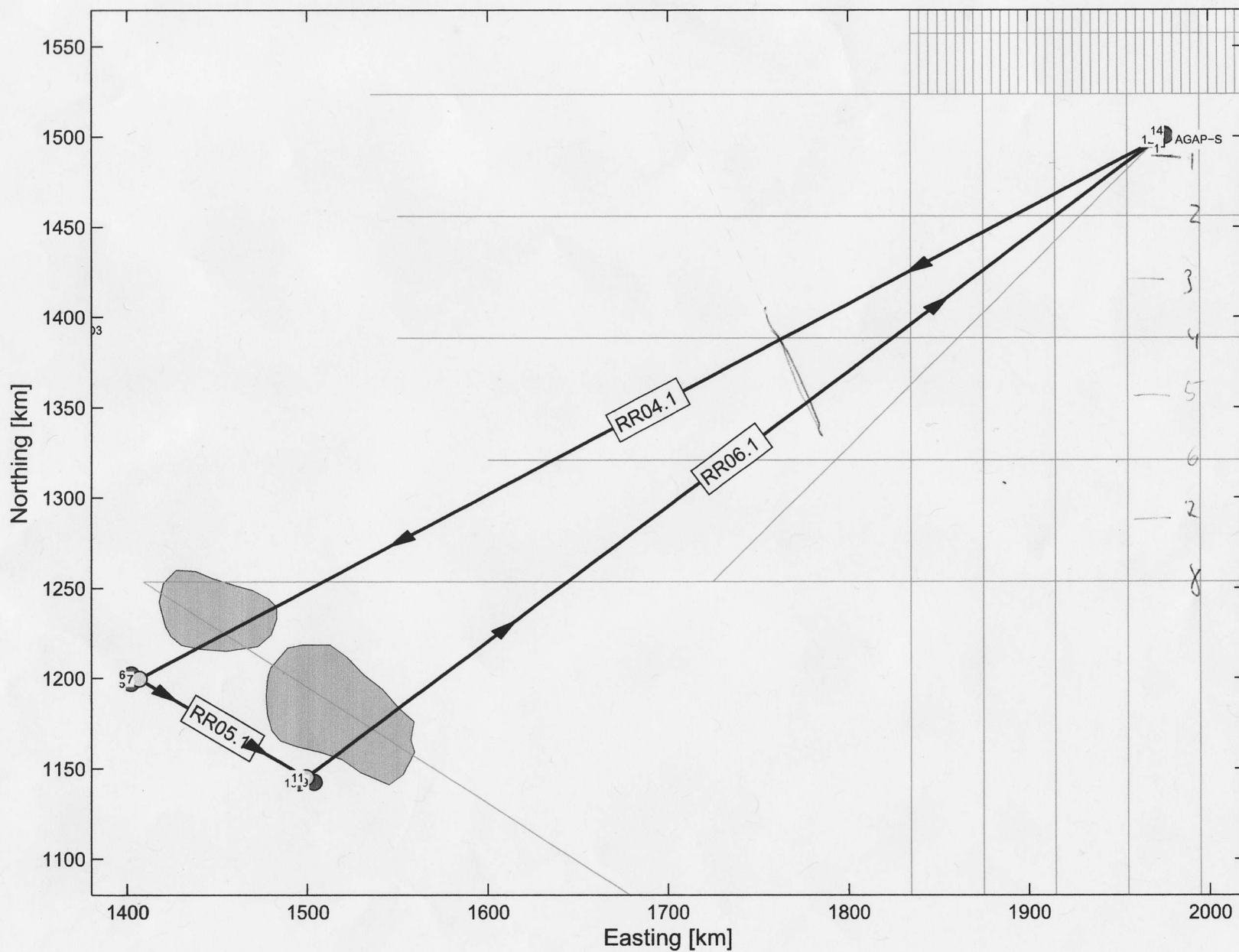
Lead-

Flight plan created on 01/07/2009 14:56

FLIGHT 32

TOTAL DISTANCE: 747.9 nm

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FLIGHT 32

MAX ALT: 12860 ft

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