

AGAP-S

C-FSJB

December 2008/January 2009

OPERATOR FLIGHT LOG

Flight Number	20
Date (ZULU)	Jan. 3, 2009
Pilot/Co-Pilot	Lexi/Rory
Operator(s)	Beth
Line Numbers	T 10130.3, T 10150.3

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		Start recording. CF Card: Job name:
left on from flight 19		Battery charge: A: % B: % External: %
		Available memory: 456458 KB.
		No Sat tracked: L1: L2:
GPS SJB-2		Start recording. CF Card: Job name:
		Battery charge: A: % B: % External: %
		Available memory: 455930 KB.
		No Sat tracked: L1: L2:

Operator Flight Log | F20

AGIS on	12:46:30	Start recording. Project name: B9 010312. P46
left on from F19		Engines on (c fueling str) (continuously on aircraft power)
	12:57	Taxi
	13:00:30	Takeoff
Laser on	12:47:21	Start recording. Project name:
Radar on	12:49:15	Start recording. Filename(s):
Event	GPS Time	Comments
	13:02	radar Tx on + grow batt to 'charge' → inverter was off
	13:04	inverter reset + Tx on (radar)
	13:09	~800 ft AGL (b/d cloud base)
	13:13	past clouds - c 1000 ft AGL
* out of order	~13:52	WP 2 - SOL T 10130
NOTE: both mag sensors appear to be more identical (same noise levels)		
	13:24	nice, tall mtn (fairly shallow - ~1.5km) (photo)
	13:41	dropping to 500 ft AGL to go under clouds
	13:45	small lake ~3km deep
	13:46	going thru clouds - can still ground
	13:47	scanner temp: ~5.5°C / outside: ~22.1°C / radars: 18°C
	13:53	WP 3 - SOL T 10130 (way better turn onto line)
	14:03	going back up to 1000 ft AGL

Operator Flight Log | F 20

Event	GPS Time	Comments
	14:07/14:55	O ₂ on/off
	~14:13	mtus Δing in character - becoming less rugged, deeper (>3 km), shorter, more valleys
	14:22-14:27	ground fog - can't fly under - will fly over / remain @ 1000 ft AGL laser - F20006 (all)
	14:22 14:27	in deep, small lake (>4 km!) (photo)
	14:40-14:47	becoming much flatter (>3.5 km deep)
	14:47-14:55	gradual increase in elev of mtus
	14:58:05	WP 4 - EOL T 10130
	14:59:20	WP 5 - EOL T 10130
	15:01-15:04	strong offline reflector (en route to T 10150) (photo)
	~15:16 15:17	WP 6 - SOL T 10150
	15:17	WP 7 - SOL T 10150 (laser F20010) (just about online & thru pt)
	15:30-15:35	back into some thin clouds
* new laser directory (F20a)	15:38	noticed F2001 is 0 bytes (missed ~6 mins of data) → restarted req. software (Log File Dir: F20a)
	15:40	mtus generally similar in character to end of T 10130 since start of T 10150 → now beginning to get a bit higher
	15:48	+200 mT over ~8 mins. + more rugged (not really... only briefly)
	16:00:50	Comms interference on radar?
	16:03	scanner temp: -6.0°C / outside: -20.7°C / racks: 21°C
	16:00-16:09	rel. level mtus @ ~3 km deep
* →	~16:20-16:26	over low ground fog (laser F20a002 - end) WP 8 EOL T 10150 → F20a005 - 1st 1/4
	16:27:20	WP 9 EOL T 10150 → turn toward AGAP-S

Event	GPS Time	Comments
	16:31	ascended to 1300 ft AGL due to icing (still over clouds)
	~16:45	ascended to ~1600 ft AGL
	16:57	scanner temp: -11.2°C / outside: -21.0°C / racks: 23°C
	16:53	large, rugged mtn (2 km deep) (photo) (several peaks just < 2 km)
	16:59	@ 1300 ft AGL descending to 1000 ft AGL now that past, low ground clouds
	17:00-17:03	strong oscillating mag signal (± 100 nT) as large, shallow mtns dissipate / shallow to ~3 km deep
	17:11-17:12	strong offline reflector (strong double peak) → looks like a plume from a volcano!
	17:22	grab batt to 'backup'
	17:22:45	radar Tx off
	17:23	buzzed AGAP-S → yeehaw!
	17:27	landing
	17:30	park c fueling str
	17:31:15	radar off
	17:31:45	laser off
	17:32:30	ABIS off
	17:48	GPS off → taxi to parking pos.
	17:51	park '

TOTAL DISTANCE: 625.4 nm

C-FSJB

C-FSJB		AGAP-S					MISSION PROFILE: AGAP_TieFR2	
		FLIGHT 20						
NR		LATITUDE (DM)	LONGITUDE (DM)	LINE	TYPE	X-LINE	DIST (nm)	COMMENT
1*		84° 29.40' S	77° 21.18' E		AGAP-S		111.9	TRANSIT TO NEXT WAYPT
2*		82° 54.99' S	68° 18.20' E	T10130.3	SOT		2.7	
3		82° 54.44' S	67° 56.89' E	T10130.3	SOL	L270	162.1	
4		81° 55.17' S	48° 53.53' E	T10130.3	EOL	OL	2.7	
5*		81° 53.79' S	48° 37.12' E	T10130.3	EOT		36.5	TRANSIT TO NEXT WAYPT
6*		81° 22.31' S	50° 41.49' E	T10150.3	SOT		2.7	
7		81° 23.61' S	50° 57.23' E	T10150.3	SOL	OL	162.1	
8		82° 18.88' S	68° 52.72' E	T10150.3	EOL	L270	2.7	
9*		82° 19.38' S	69° 12.47' E	T10150.3	EOT		142.0	TRANSIT TO NEXT WAYPT
10*		84° 29.40' S	77° 21.18' E		AGAP-S		0.0	
					TOTAL DISTANCE (nm):		625.4	
					TOTAL DISTANCE (km):		1158.2	

* = waypoint relevant for aircraft navigation.

Lead-in distance (km): 5

Flight plan created on 01/02/2009 20:23

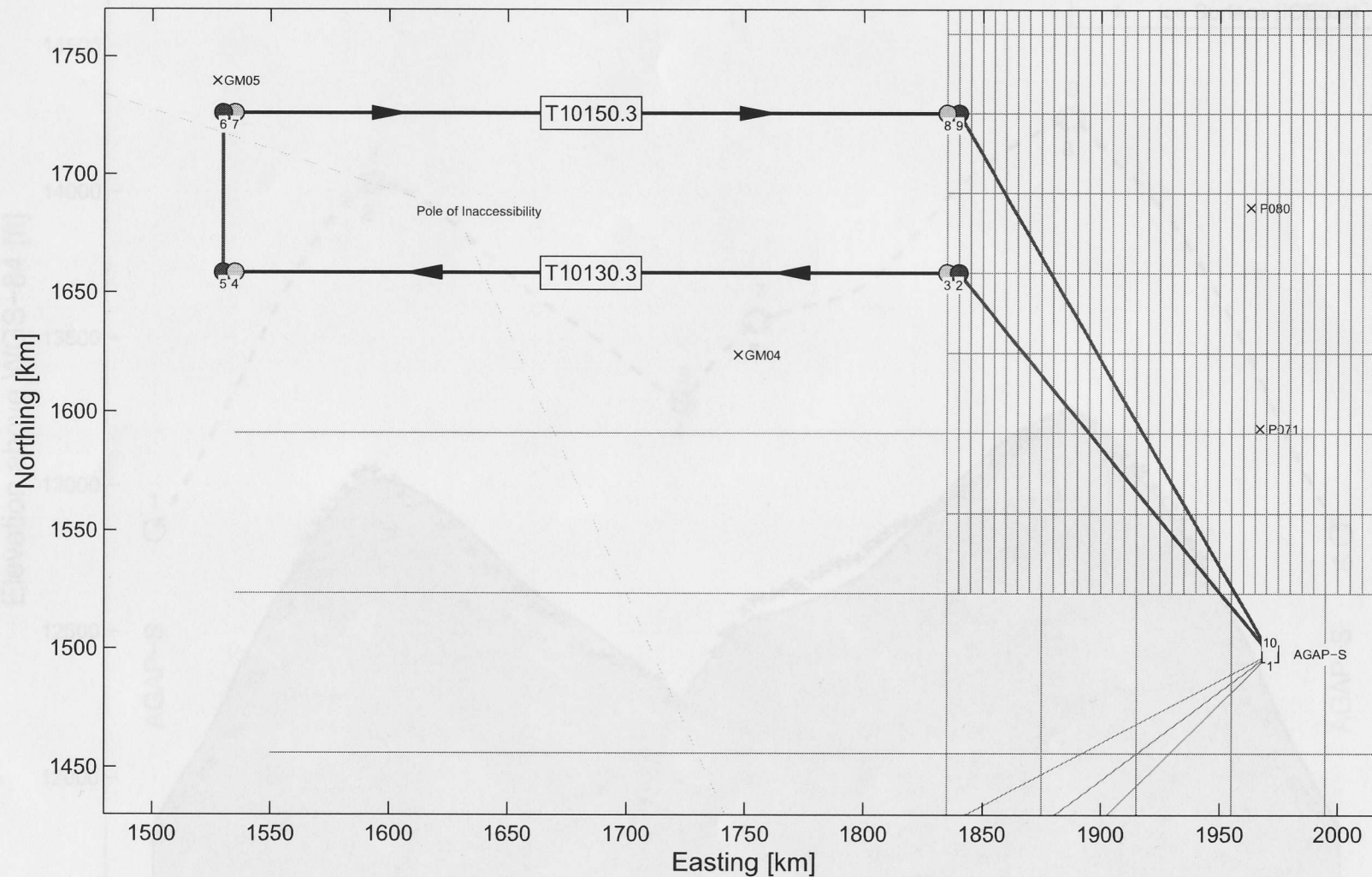
Easting (km)

MISSION PROFILE AGAP_TieFR2

FLIGHT 20

TOTAL DISTANCE: 625.4 nm

C-FSJB



FLIGHT 20

MAX ALT: 14260 ft

C-FSJB

