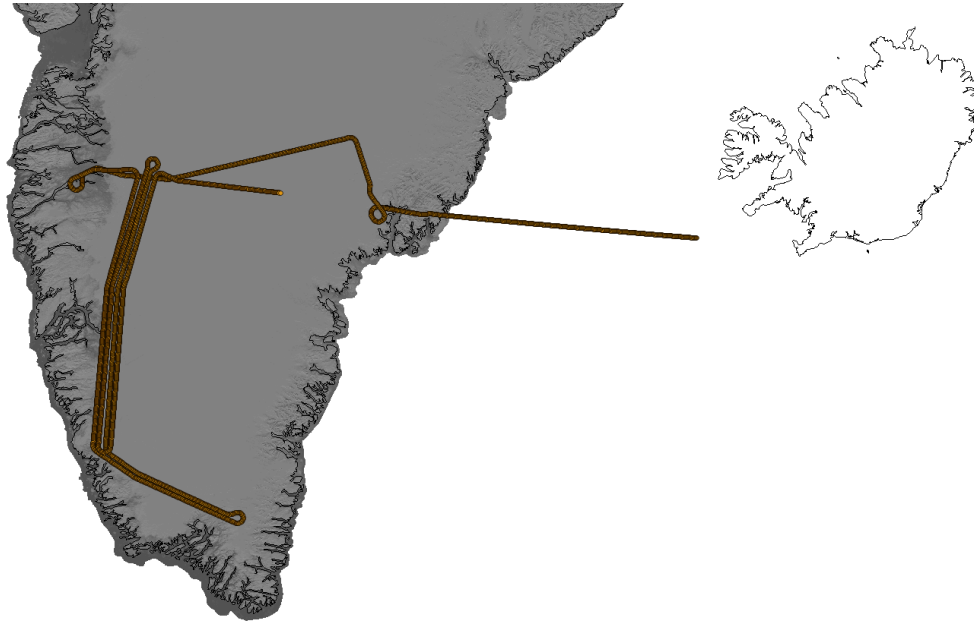


04/20/2012

Mission: 'SW Coast 1'



Weather: Generally clear

Comments: Also included: CPL, DCS. Mike MacFerrin on ground (4/28-5/5).

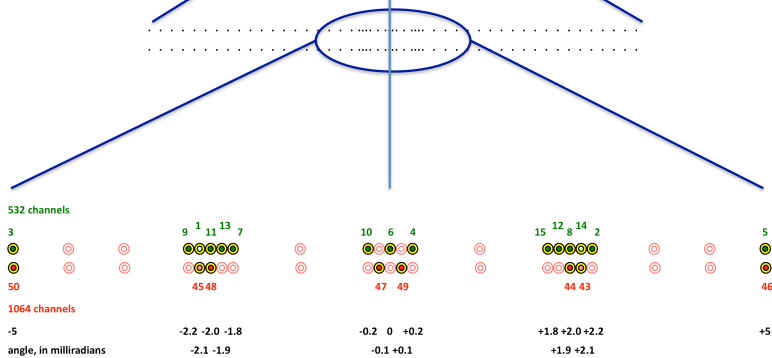
- Matches ATM 4/20/12

Etalon; daytime flights

Sample rate: 5 kHz

Energy levels throughout channels: variable: some beams were filtered to simulate ICESat-2 'weak' beams (see **colored** channels below).

FOV: 'Cluster FOV' (see image below)



Angle to Channel map:

Fiber	1	2	3	4	5	6	7	8												
Connector	7	6	-7	11	-1	-6	1	-11												
Channel	43	44	45	46	47	48	49	50												
Transmitter Power (mW)	6.17	7.12	4.7	7.67	8.26	7.06	8.73	7.67												
Filter	0.25	0.25	0.25	0.49	0.49	0.25	0.49	0.49												
Receiver Power (mW) MEASURED	2.49	4.45	2.07	7.43	7.53	4.33	9.27	5.68												
Raw Energy (Matt, uJ)	0	0	0	0	0	0	0	0												
Filtered Energy (uJ)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Relative path difference (Matt, mm)	48	0	97	32	16	81	113	65												
Angle (mrad)	2.1	2	-2.1	5	-0.1	-2	0.1	-5												
Approx offset on ground (m): 65k'	42	40	-42	99	-2	-40	2	-99												
Elevaton (mrad)	2.0	1.5	1.0	1.5	1.0	1.5	2.0	1.5												
Approx offset on ground (m): 65k'	40	30	20	30	20	30	40	30												
Fiber	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Connector	-7	8	-11	2	11	0	-4	6	-8	-2	-6	5	-5	7	4	10				
Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Transmitter Power (mW)	1.08	3.22	7.35	2.92	6.92	9.86	3.19	3.41	2.99	1.33	3.09	3.55	0.01	1.36	3.08	0.01				
Filter	0.25	0.37	0.69	0.69	0.69	0.69	0.49	0.37	0.37	0.69	0.37	0.69	0.69	0.25	0.37	0.69				
Receiver Power (mW) MEASURED	1.59	2.41	3.01	1.91	2.89	3.21	2.26	2.61	1.98	1.76	2.23	2.67	1.09	1.89	2.21	1.05				
Raw Energy (Matt, uJ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Filtered Energy (uJ)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Relative path difference (Matt, mm)	172	237	253	75	188	140	59	221	43	27	108	204	269	156	124	92				
Angle (mrad)	-2.1	2.2	-5	0.2	5	0	-1.8	2	-2.2	-0.2	-2	1.9	-1.9	2.1	1.8	4				
Approx offset on ground (m): 65k'	-42	44	-99	4	99	0	-36	40	-44	-4	-40	38	-38	42	36	79				
Elevaton (mrad)	-2.0	-0.5	-1.5	-0.5	-1.5	-1.5	-0.5	-1.5	-2.5	-2.5	-1.5	-2.0	-1.0	-1.0	-2.5	-1.5				
Approx offset on ground (m): 65k'	-40	-10	-30	-10	-30	-30	-10	-30	-50	-50	-30	-40	-20	-20	-50	-30				

Points of interest:

Time (UTC)	Description
9:22:26	Laser status healthy
10:6:7	Start Helheim run
10:29:10	End Helheim run
10:55:58	MacFerrin 1
11:9:13	Kanger DEM 1
11:17:13	Kanger DEM 2
11:25:48	Start of ATM lines
12:7:40	Start OIB S
12:52:16	End OIB N
13:40:24	Start OIB NW
14:20:33	End OIB NW
14:23:29	Start OIB NE
15:2:12	End OIB NE
15:2:12	End ATM lines
15:6:3	MacFerrin 2
15:21:43	Laser off