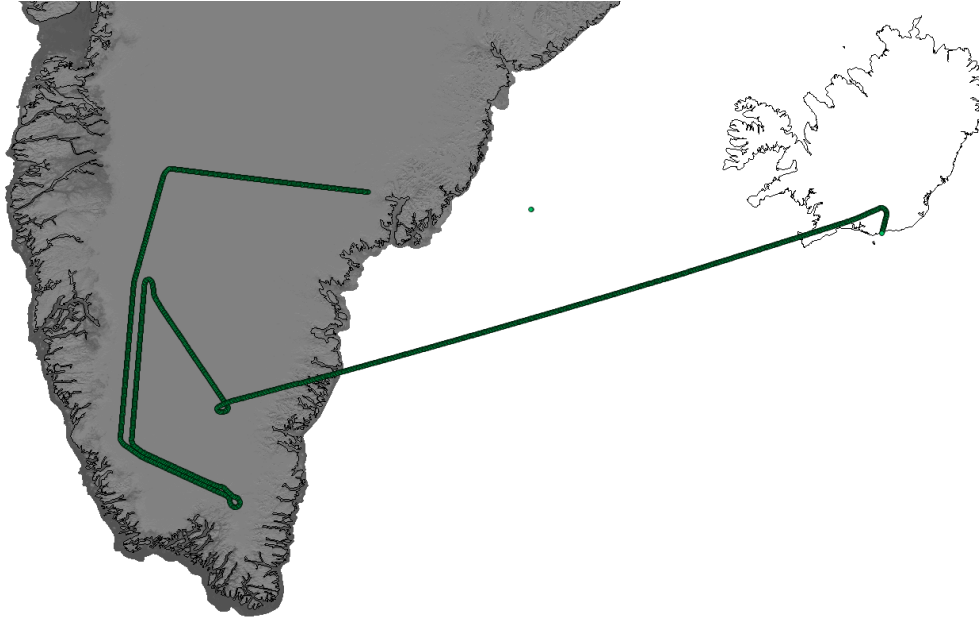


04/24/2012

Mission: 'SW Coast 2'



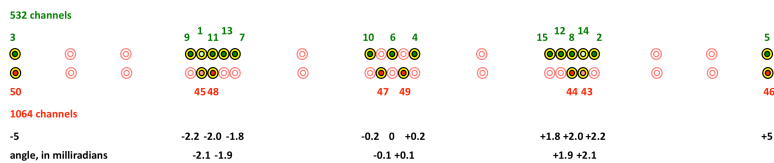
Weather: Generally clear; overcast over MacFerrin; broken on western ATM line
Comments: Also included: CPL, DCS.

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
10:10:45	Laser status healthy
10:42:0	Start ATM lines
12:23:19	End ATM lines
12:50:13	South Dome AWS
14:32:15	E15 (cloudy)
14:33:34	Laser off