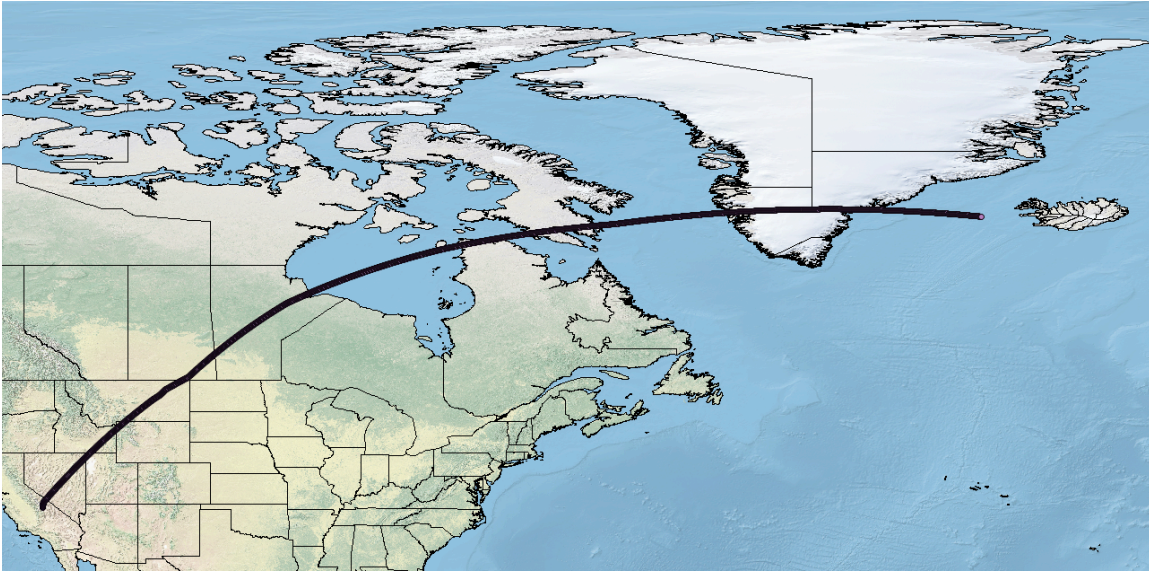


04/02/2012

Mission: 'Transit to Iceland'



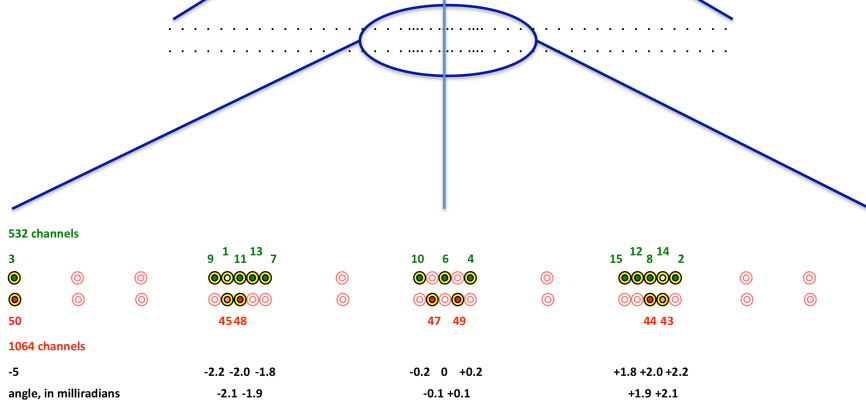
Weather: Clear over Montana, Hudson Bay, and S Greenland  
Comments: Also included: CPL

Etalon; but night transit

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
2:34:23	Laser status healthy
4:33:12	Start Fort Peck reservoir
4:36:20	End Fort Peck reservoir
6:24:2	Start Hudson Bay
7:40:53	End Hudson Bay
9:22:19	Start Greenland
10:11:34	End Greenland
10:52:37	Laser off