

03/27/2012

Mission: 'Dryden Checkout Flight'



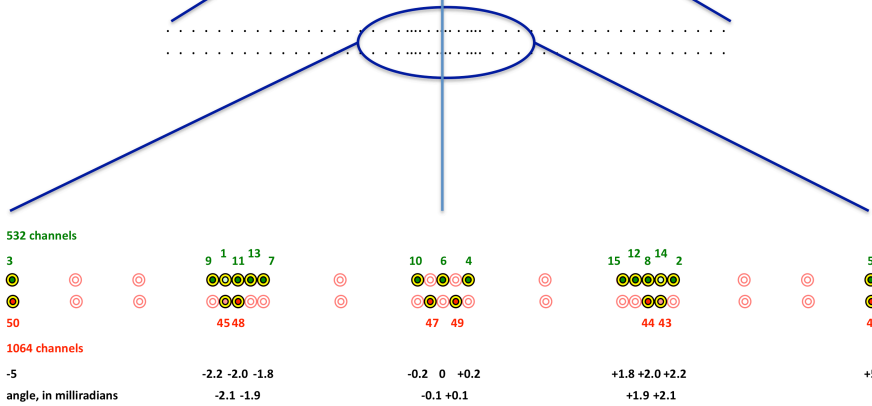
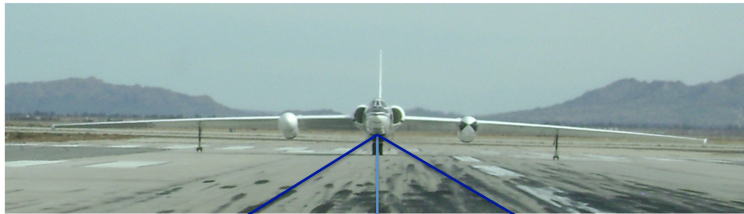
Weather: High dense clouds throughout; very high data rates
Comments: Also included: CPL

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
18:22:37	Laser status healthy
20:43:49	Laser off