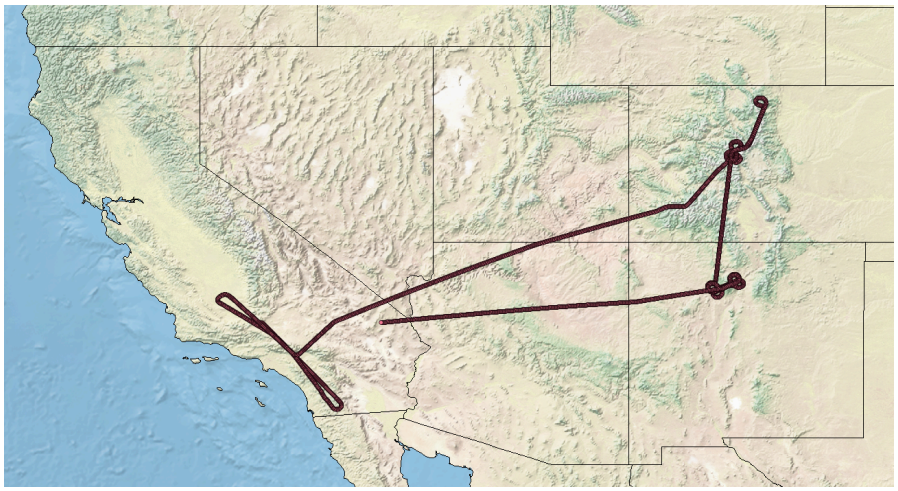
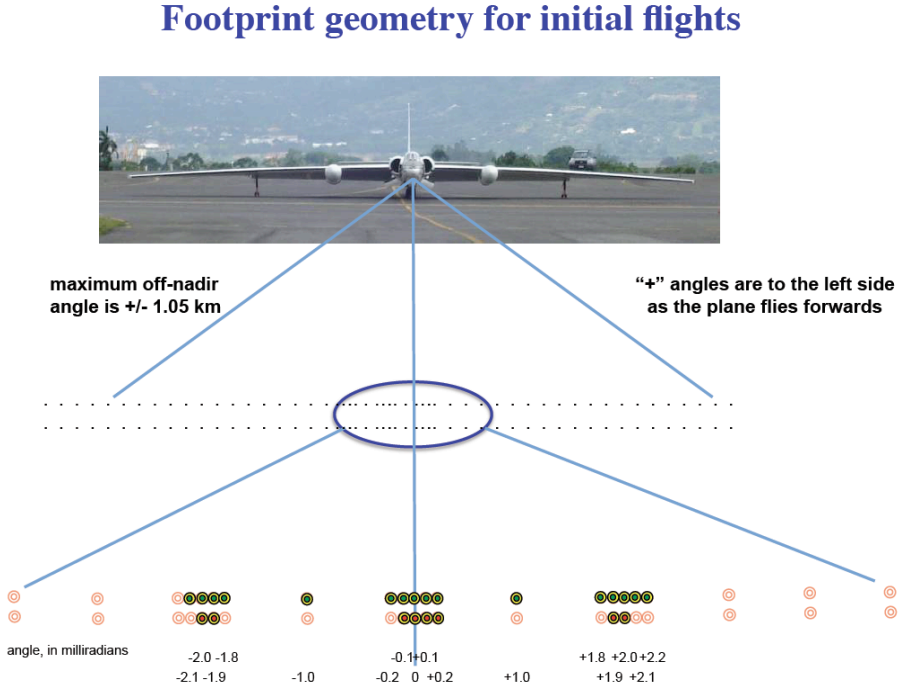
02/22/2012

Mission: 'New Mexico and Colorado'



Weather: 'Good' throughout most of the flight
Comments: Also included: CPL, DCS;
John Anderson's targets at RAMPW (2x).

NO etalon filter; Twilight 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	-6	-5	-1	0	1	2	5	6
Channel	43	44	45	46	47	48	49	50
Power (Matt, mW)	0	0	0	0	0	0	0	0
Filter	0.25	0.25	0.25	0.69	0.69	0.69	0.69	0.69
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)	0	16	32	48	65	81	97	113
Angle (mrad)	-2	-1.9	-0.1	0	0.1	0.2	1.9	2
Approx offset on ground (m): 65k'	-40	-38	-2	0	2	4	38	40
Elevaton (mrad)	1.5	2.0	1.0	1.5	2.0	2.5	1.0	1.5
Approx offset on ground (m): 65k'	30	40	20	30	40	50	20	30

Fiber	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Connector	**-7**	**5**	**2**	**3**	**6**	**-2**	**99**	**4**	**-5**	**7**	**1**	**-4**	**-6**	**0**	**-3**	**8**
Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Power (Matt, mW)	3.48	12.03	13.48	13.04	11.01	13.77	11.30	12.61	9.86	10.43	16.52	12.17	10.87	16.96	13.01	0.00
Filter	0.69	0.69	0.69	0.69	0.25	0.69	0.37	0.69	0.37	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Raw Energy (Matt, uJ)	0.7	2.41	2.7	2.61	2.2	2.75	2.26	2.52	1.97	2.09	3.3	2.43	2.17	3.39	2.61	0
Filtered Energy (uJ)	0.48	1.66	1.86	1.80	0.55	1.90	0.84	1.74	0.73	1.44	2.28	1.68	1.50	2.34	1.80	0.00
Relative path difference (Matt, mm)	27	43	59	75	92	108	124	140	156	172	188	204	221	237	253	269
Angle (mrad)	-2.1	1.9	0.2	1	2	-0.2	0	1.8	-1.9	2.1	0.1	-1.8	-2	0	-1	2.2
Approx offset on ground (m): 65k'	-42	38	4	20	40	-4	0	36	-38	42	2	-36	-40	0	-20	44
Elevaton (mrad)	-2.0	-2.0	-0.5	-1.5	-1.5	-2.5	0.0	-2.5	-1.0	-1.0	-1.0	-0.5	-1.5	-1.5	-1.5	-0.5
Approx offset on ground (m): 65k'	-40	-40	-10	-30	-30	-50	0	-50	-20	-20	-20	-10	-30	-30	-30	-10

Points of interest:

Time (UTC)	Description
1:4:1	Laser status healthy
1:51:45	RAMPW 1
2:22:17	RAMPW 2
3:47:32	Senator Beck area
4:2:36	Start of CO run
5:4:53	End of CO run
5:30:4	Start NM run
7:5:7	End NM run
8:7:1	Laser off