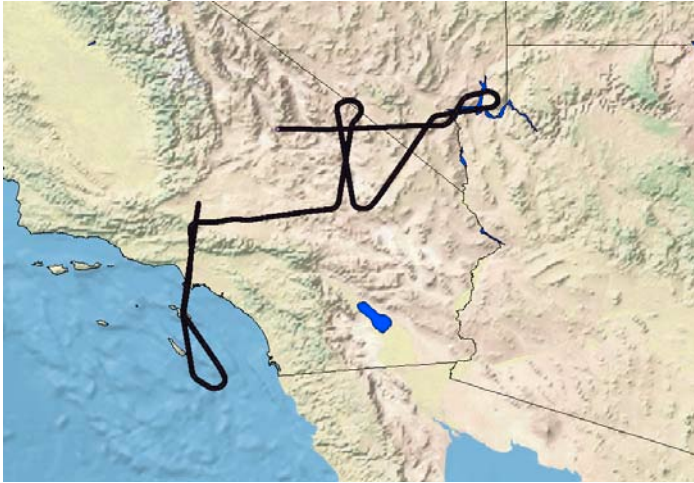


03/24/2011

Mission: 'Dryden'



Weather: Clear

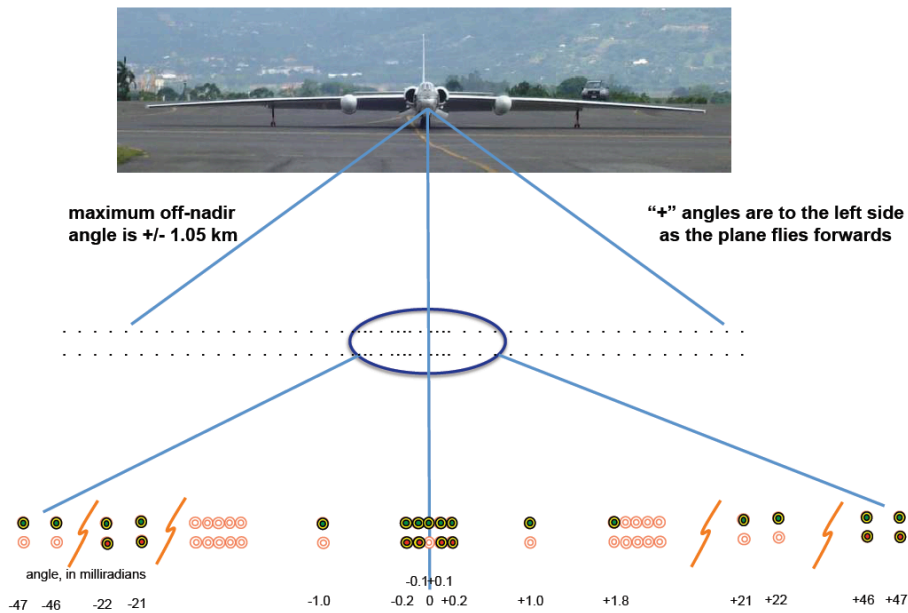
Comments: This is the same as the flight on 3/22, however, in reverse. Note 'variable energy' settings (see comment below). This flight path is intended to mimic the initialization flight path of IceBridge.

Sample rate: 5 kHz

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

FOV: 'Wide FOV' (see image below)

### Footprint geometry for initial flights



### Angle to Channel map:

Fiber	1	2	3	4	5	6	7	8											
Connector	53	52	2	1	-1	-2	-27	-28											
Channel	47	48	49	50	46	45	44	43											
Power (Matt, mW)	32	33.6	25	17.2	25.2	25	20	23.8											
Filter	0.49	0.15	0.49	0.15	0.49	0.15	0.49	0.15											
Raw Energy (Matt, uJ)	6.4	6.72	5	3.44	5.1	5	4	4.76											
Filtered Energy (uJ)	3.14	1.01	2.45	0.52	2.50	0.75	1.96	0.71											
Path Lengths (Matt, mm)	0	16	32	48	65	81	97	113											
Angle (mrad)	47	46	0.2	0.1	-0.1	-0.2	-21	-22											
Approx offset on ground (m): 65k'	932	912	4	2	-2	-4	-416	-436											
Fiber	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
Connector	-53	-52	-28	-27	-3	-2	-1	0	1	2	3	4	27	28	52	53			
Channel	2	3	1	4	16	5	15	6	14	7	13	8	12	9	11	10			
Power (Matt, mW)	34.4	38	32.2	35.8	18.8	24.7	27.6	26.7	24.5	31.2	30.2	28.8	27.5	27.6	31.2	31.4			
Filter	0.69	0.49	0.69	0.49	0.69	0.49	0.69	0.49	0.69	0.49	0.69	0.49	0.69	0.49	0.69	0.49			
Raw Energy (Matt, uJ)	6.88	7.6	6.44	7.16	3.76	4.94	5.52	5.34	4.9	6.24	6.04	5.76	5.5	5.52	6.24	6.28			
Filtered Energy (uJ)	4.75	3.72	4.44	3.51	2.59	2.42	3.81	2.62	3.38	3.06	4.17	2.82	3.80	2.70	4.31	3.08			
Path Lengths (Matt, mm)	27	43	59	75	92	108	124	140	156	172	188	204	221	237	253	269			
Angle (mrad)	-47	-46	-22	-21	-1	-0.2	-0.1	0	0.1	0.2	1	1.8	21	22	46	47			
Approx offset on ground (m): 65k'	-932	-912	-436	-416	-20	-4	-2	0	2	4	20	36	416	436	912	932			

### Points of interest:

Time (UTC)	TOF File	Description
14:18:05	1	Laser status healthy
14:27:27	14	stat leg over ocean
14:54:54	43	end leg over ocean
15:59:14	264	start first leg over Lk Meade
16:03:07	272	end first leg over Lk Meade
16:06:30	286	start second leg over Lk Meade
16:11:18	305	end second leg over Lk Meade
16:29:19	391	Laser off