

03/30/2011

Mission: 'CATS Ocean'



Weather: Clear

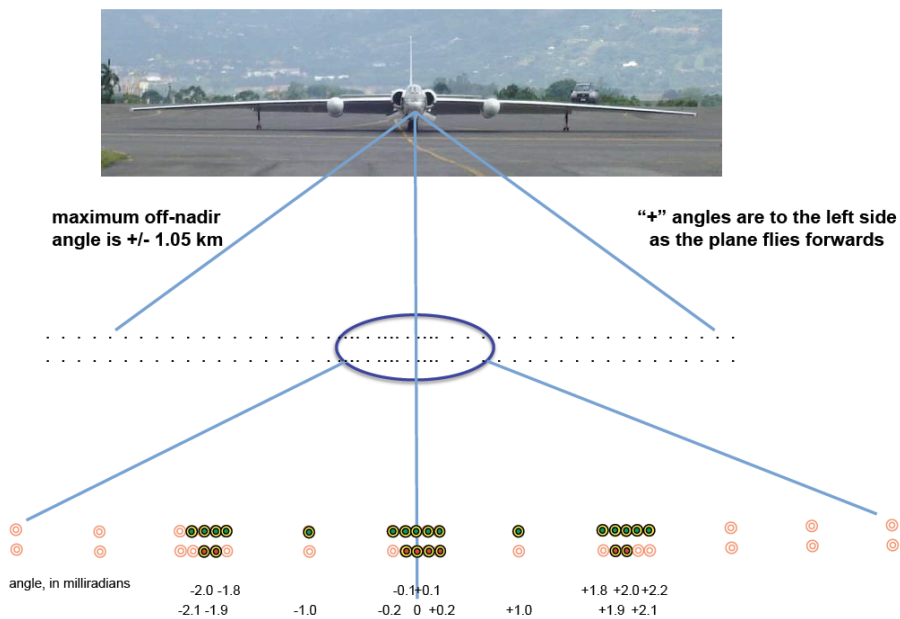
Comments: This was officially a CATS mission, which flew out over the ocean. Data stopped recording at a late point in the flight

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)

Footprint geometry for initial flights



Angle to Channel map:

Fiber	1	2	3	4	5	6	7	8												
Connector	6	5	2	1	0	-1	-5	-6												
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)	2	1.9	0.2	0.1	0	-0.1	-1.9	-2												
Approx offset on ground (m): 65k'	40	38	4	2	0	-2	-38	-40												
Fiber	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Connector	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8				
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	0.69	0.49	0.69	0.69	0.69	0.69	0.49	0.69	0.69	0.69	0.69	0.69	0.49	0.69	0.69				
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	5.24	3.16	4.94	2.59	3.41	3.81	2.62	3.38	4.31	4.17	3.97	3.80	2.70	4.31	4.33				
Path Lengths (Matt, mm)	27	43	59	75	92	108	124	140	156	172	188	204	221	237	253	269				
Angle (mrad)	-2.1	-2	-1.9	-1.8	-1	-0.2	-0.1	0	0.1	0.2	1	1.8	1.9	2	2.1	2.2				
Approx offset on ground (m): 65k'	-42	-40	-38	-36	-20	-4	-2	0	2	4	20	36	38	40	42	44				

Points of interest:

Time (UTC)	TOF File	Description
16:54:50	0	Laser status healthy
18:22:58	31	Laser off