

P-3B Transit/Science Flight Plan F
To be flown Thur 26 Jun 2008

Objectives

- 1) Transit Ames-Edmonton
- 2) Lake Tahoe smoke radiation study in DC-8 curtain
- 3) Central Valley smoke radiation gradient study
- 4) Lake Tahoe smoke radiation study under Terra overpass

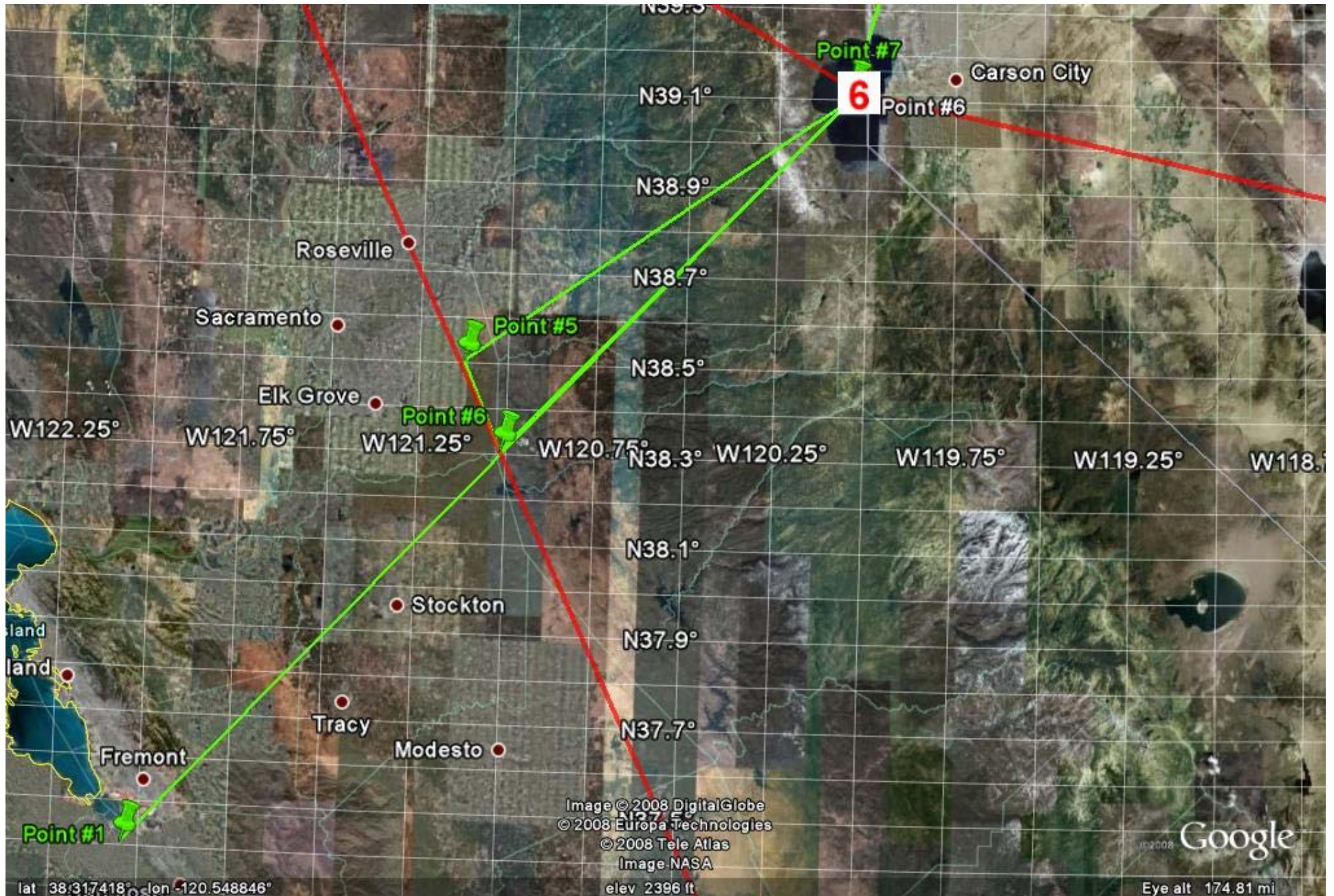
Note: Altitudes may change but general areas and objectives are as indicated.

W P#	Lat (+-90)	Lon (+-180)	Speed (m/s)	De- lay T (min)	Alti- tude (m)	Cum Leg T (h:m)	UTC (h:m)	Local T (h:m)	Leg T (h:m)	Dist (km)	Cum Dist (km)	Dist (nm)	Cum Dist (nm)	Speed (kt)	Alti- tude (kft)	Comments
1	37.409	-122.050	150	0	0	0:00	15:15	8:15	0	0	0	0	0	292	0	Takeoff Ames
2	39.100	-120.050	150	0	7000	0:29	15:44	8:44	0:29	256	256	138.5	138.48	292	23	Lake Tahoe
3	39.100	-120.050	150	25	1960	0:54	16:09	9:09	0:25	0	256	0	138.48	292	6.43	Spiral down Lake Tahoe
4	39.100	-120.050	150	30	5000	1:24	16:39	9:39	0:30	0	256	0	138.48	292	16.4	Parking garage Lake Tahoe (DC8 overpass 9:26)
5	38.505	-121.125	140	0	1000	1:37	16:52	9:52	0:13	114	371	61.66	200.13	272	3.28	Central Valley
6	38.308	-121.016	140	20	1000	0:083	17:15	10:15	0:23	23.9	395	12.88	213.02	272	3.28	Gradient search Central Valley
7	39.100	-120.050	150	0	7000	2:14	17:29	10:29	0:15	122	516	65.61	278.62	292	23	Lake Tahoe
8	39.100	-120.050	150	25	1960	2:39	17:54	10:54	0:25	0	516	0	278.62	292	6.43	Spiral down Lake Tahoe
9	39.100	-120.050	150	30	5000	3:09	18:24	11:24	0:30	0	516	0	278.62	292	16.4	Parking garage Lake Tahoe (Terra OP 11:33)
10	53.310	-113.580	150	0	668	6:13	21:28	14:28	3:04	1654	2170	893.1	1171.7	292	2.19	Land Edmonton
11	53.310	-113.580	150	60	668	7:13	22:28	15:28	1:00	0	2170	0	1171.7	292	2.19	Depart Edmonton after Customs
12	54.404	-110.279	150	0	541	7:40	22:55	15:55	0:28	248	2418	134	1305.7	292	1.78	Cold Lake

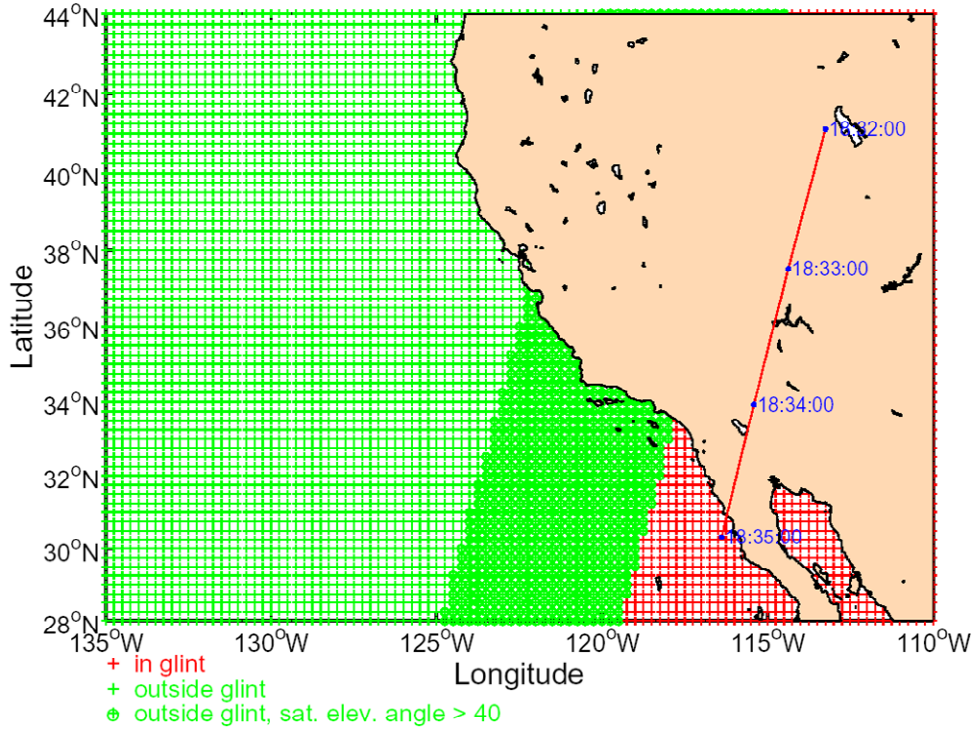


Orange track thru Calif: Terra Track 8, passing Tahoe 1833 UT, SZA 19.814..

Blue track near Cold Lake: CALIPSO Track 10, passing Cold Lake 2017 UT, SZA 32.2.



Terra Orbital Predict and glint mask Plot,2008/06/26



Aqua Orbital Predict and glint mask Plot,2008/06/26

