

Flight Plan
P-3 ARCTAS Fairbanks-Barrow-Fairbanks Flight
5 Apr 2008

Goals: Sample Asian pollution along CALIPSO track in horizontal legs and 2 spirals. Fly radiometer legs high and low. Fly CAR circles over Elson Lagoon.



Point	Lat (+- 90)	Lon (+- 180)	Speed (m/s)	Delay T (h:m)	Altitude (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)	Altitude (kft)	Notes
1	64.814	-147.855	150	0:00	5,000	0	20:00	12:00	0	0	0	0	0	292	16.404	Fairbanks
2	67.461	-147.178	150	0:00	5,000	0:33	20:33	12:33	0:33	296	296	160	160	292	16.404	Arrive at CALIPSO track descend to 5000m
3	69.69	-149.935	150	0:00	3,000	1:04	21:04	13:04	0:31	272	567	147	306	292	9.8425	Descend to 3000m along CALIPSO track
4	71.656	-152.924	150	0:00	7,500	1:31	21:31	13:31	0:28	245	812	132	438	292	24.606	Ascend to 7500m at CALIPSO overflight marker
5	72.939	-155.263	150	0:00	7,500	1:49	21:49	13:49	0:19	163	975	88	526	292	24.606	10-minute along track radiometer run at 7500m
6	72.939	-155.263	150	0:20	150	2:09	22:09	14:09	0:20	0	975	0	526	292	0.4921	Spiral descent to 150m
7	71.656	-152.924	150	0:00	150	2:27	22:27	14:27	0:19	163	1,138	88	614	292	0.4921	10-minute along track radiometer run at 150m
8	71.656	-152.924	150	0:20	7,500	2:47	22:47	14:47	0:20	0	1,138	0	614	292	24.606	Spiral ascent under B200 at CALIPSO overflight marker
9	71.3	-156.3	150	0:00	5,000	3:01	23:01	15:01	0:14	126	1,263	68	682	292	16.404	Transit to Barrow at ~5000 (in aerosol layer)
10	71.3	-156.3	150	0:20	1,850	3:21	23:21	15:21	0:20	0	1,263	0	682	292	6.0696	6, 3-min CAR circles at 6000'
11	71.3	-156.3	150	0:20	625	3:41	23:41	15:41	0:20	0	1,263	0	682	292	2.0505	6, 3-min CAR circles at 2000'
12	71.3	-156.3	150	0:20	185	4:01	0:01	16:01	0:20	0	1,263	0	682	292	0.607	6, 3-min CAR circles at 600'
13	71.656	-152.924	150	0:00	185	4:15	0:15	16:15	0:14	126	1,389	68	750	292	0.607	600' BL run back to CALIPSO overflight marker
14	64.814	-147.855	160	0:00	7,500	5:42	1:42	17:42	1:28	788	2,177	425	1,175	311	24.606	Transit to Fairbanks at two different altitudes

