

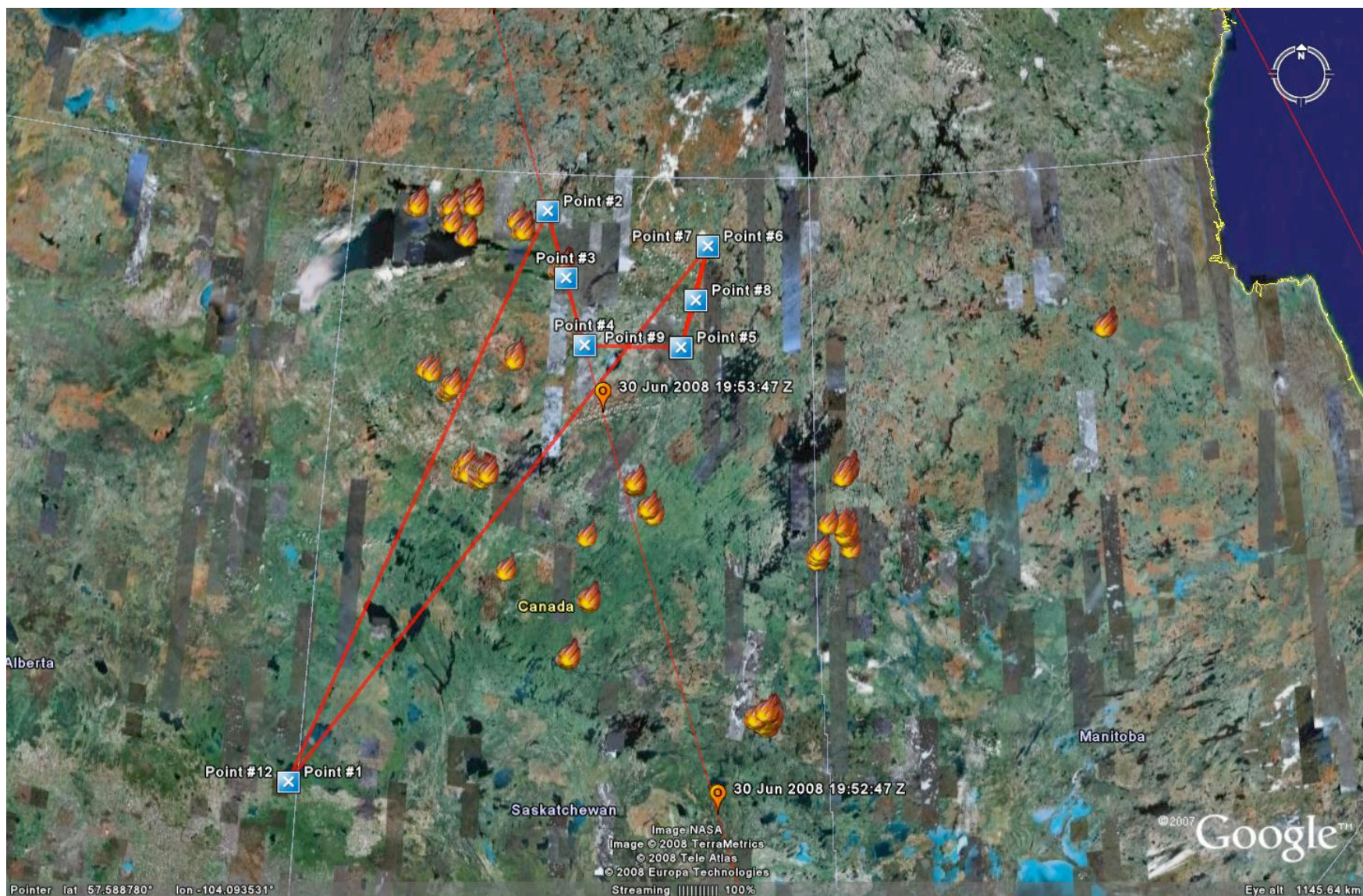
P-3B Science Flight Plan A
To be flown Mon 30 Jun 2008

Objectives

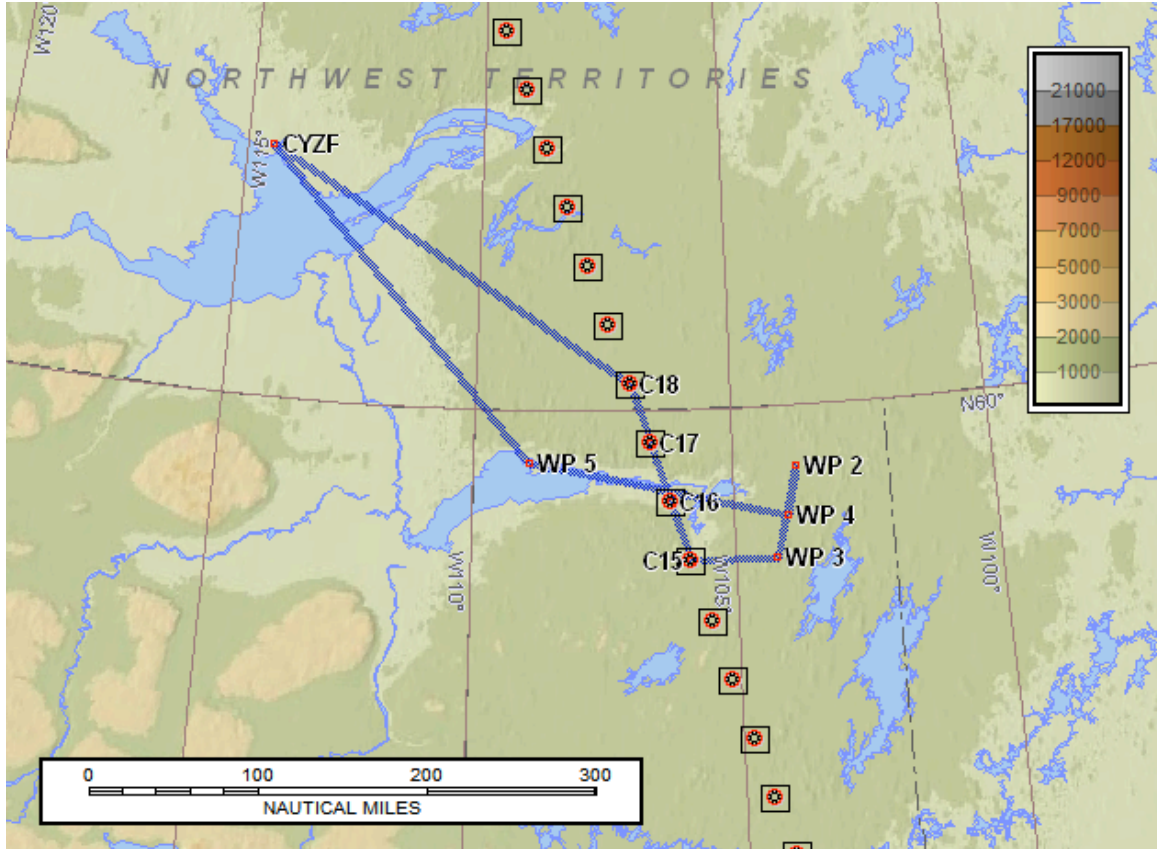
- 1) Radiation plus in situ study of plume from Fire North of Lake Athabasca
- 2) CALIPSO overpass (19:54 UT)
- 3) Coordination with B-200 along CALIPSO track and later during stacked radiation legs
- 4) Stacks of radiation legs in cross-plume direction, above and below plume (between WP 5 and WP 6), followed by leg at plume-altitude for in situ measurements

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

WP #	Lat (+- 90)	Lon (+- 180)	Speed (m/s)	De-lay T (min)	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)	Comments
1	54.460	-	140	0	0	0:00	18:30	12:30	0	0	0	0	0	272	0	Take-off
2	59.669	-	140	0	5000	1:14	19:44	13:44	1:14	618	618	333.5	333.49	272	16.4	Meet CALIPSO track (overpass @ 19:54UT)
3	59.087	-	130	0	150	1:22	19:52	13:52	0:09	68	686	36.74	370.23	253	0.49	Low-run under CALIPSO and B-200
4	58.504	-	130	0	150	1:31	20:01	14:01	0:09	68.1	754	36.78	407	253	0.49	End CALIPSO run
5	58.505	-	130	0	150	1:43	20:13	14:13	0:13	93.9	848	50.68	457.69	253	0.49	End of Eastward low-run
6	59.396	-	130	0	150	1:56	20:26	14:26	0:14	102	950	55.15	512.84	253	0.49	End cross-plume low-run leg North
7	59.396	-	130	12	3500	2:08	20:38	14:38	0:12	0	950	0	512.84	253	11.5	End of spiral ascent
8	58.920	-	140	0	3500	2:15	20:45	14:45	0:07	54.1	1004	29.2	542.04	272	11.5	B-200 breaks away
9	58.505	-	140	0	3500	2:21	20:51	14:51	0:06	48.2	1052	26	568.04	272	11.5	End of cross-plume high-run South
10	58.505	-	140	8	1000	2:29	20:59	14:59	0:08	0	1052	0	568.04	272	3.28	End of spiral descent to plume-level
11	59.396	-	140	0	3500	2:41	21:11	15:11	0:13	102	1154	55.15	623.2	272	11.5	End of plume-level run
12	54.460	-	140	0	0	4:01	22:31	16:31	1:20	670	1824	361.9	985.1	272	0	RTB



Red track: CALIPSO Track, passing WP 6 ~1954 UT.



B-200 flight track, coordinated with P-3 along C18, C17, C16, C15, WP3, WP2, WP4