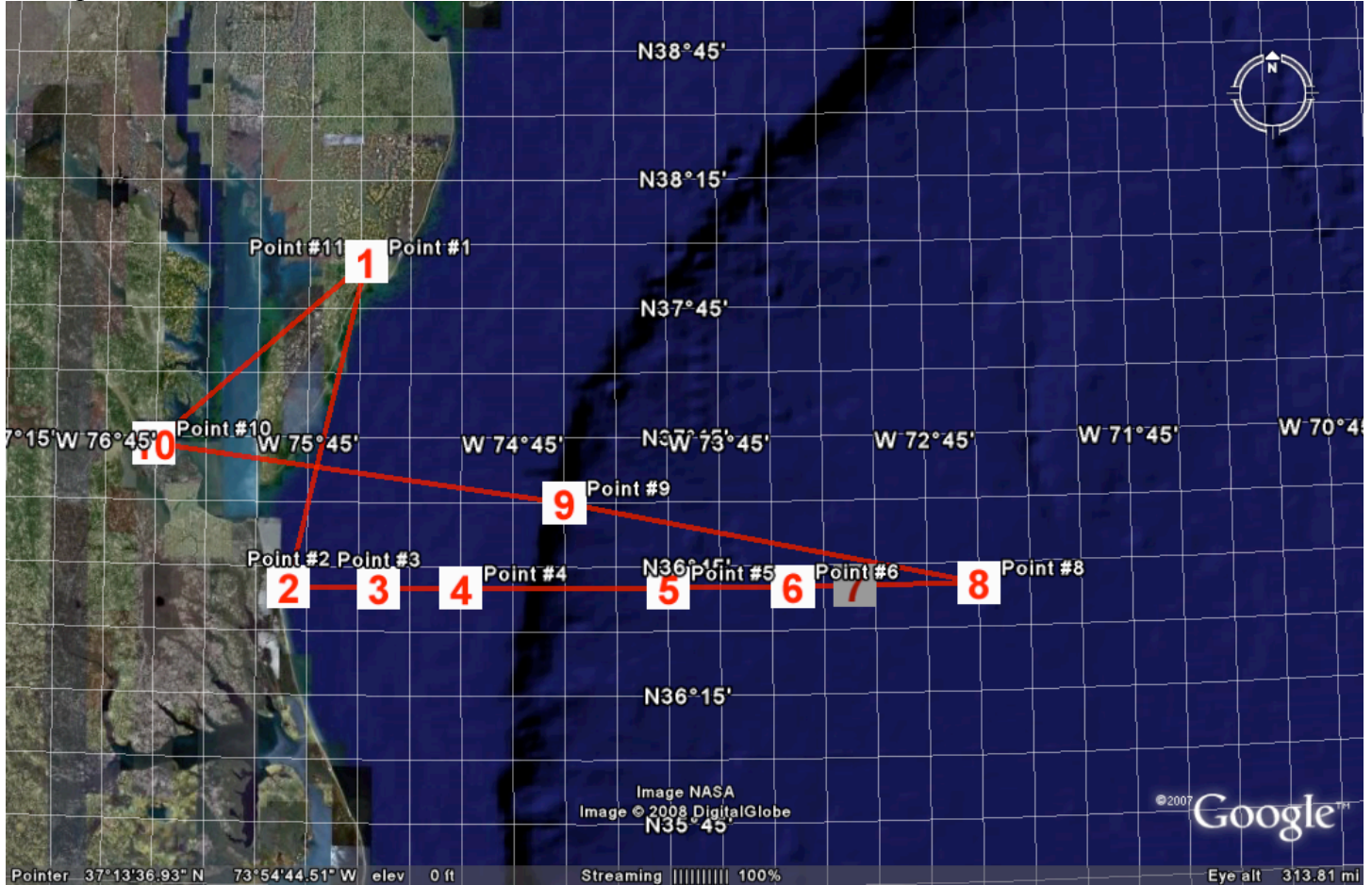


Draft Plan
P-3 ARCTAS PCF #2
27 Mar 2008

Goals: Climb above local low cloud, head for area with lowest probability of high cloud, with level legs of varying speed and altitude, then head to power plant to sample pollution, then head to base. Sample cloud at some point.



Takeoff: 12:00 local

Point	1	2	3	4	5	6	7	8	9	10	11
Latitude	37.93306	36.67	36.67	36.67	36.67	36.67	36.67	36.67	37	37.22	37.93306
Longitude	-75.4722	-75.84	-75.4	-75	-74	-73.4	-73.1	-72.5	-74.5	-76.51	-75.4722
Cum. Flt. Time	0:00	0:18	0:28	0:34	0:45	0:51	0:56	1:01	1:45	2:11	2:48
Leg Flt. Time		0:18	0:05	0:05	0:11	0:05	0:04	0:05	0:23	0:26	0:16
Local Time	12:00	12:18	12:28	12:34	12:45	12:51	12:56	13:01	13:45	14:11	14:48
UTC	16:00	16:18	16:28	16:34	16:45	16:51	16:56	17:01	17:45	18:11	18:48
Delay		0:05	0:00					0:20		0:20	
Leg Speed (m/s)		130	120	115	130	155	90	155	130	115	120
Leg Speed (kt)	0	253	233	224	253	301	175	301	253	224	233
UTC diff:	4										
Altitude (kft)		5	5	5		24	24	24	12	2	

Profile data:

<u>Cumulative Time</u>				Altitude, kft	Flight Level, 100s of ft	Notes
kt	m/s	Duration	Minutes hh:mm			
		0	0	0	0	
253	130	18	18	0:18	5	50 Climb ~1,000 fpm to above local low cloud
175	90	5	23	0:23	5	Straight & level, 90 m/s (175 kt)
233	120	5	28	0:28	5	Straight & level, 120 m/s (233 kt)
224	115	6	34	0:34	5	Straight & level, 115 m/s (224 kt)
253	130	11	45	0:45	24	240 Climb ~1,500 fpm to 24 kft (FL 240)
301	155	5	50	0:50	24	240 Straight & level, 155 m/s (301 kt)
175	90	5	55	0:55	24	240 Straight & level, 90 m/s (175 kt)
301	155	5	60	1:00	24	240 Straight & level, 115 m/s (224 kt)
253	130	20	80	1:20	24	240 AATS test circles
224	115	23	103	1:43	12	120 Descend to 12 kft, then level 15 min for CCN
224	115	26	129	2:09	2	20 Descend to 2 kft, then level 15 min for CCN
233	120	20	149	2:29	2	20 Search for strong pollution near power plant
		16	165	2:45	0	0 Sample cloud, Return to base

