

### Flight Projections - 19 Jan 2005 - 0000Z Soundings

ARCTIC FLIGHT										
Time	MET (Hrs)	Altitude Ft	Latitude	Longitude	Miles from launch	KM Launch	Miles from last point	KM from last point	Σ Miles	Σ KM
0:00	0.00	95	58.73	-93.81	0.00	0.00	0.00	0.00	0.00	0.00
0:10	0.17	10000	58.60	-93.81	8.79	14.15	8.79	14.15	8.79	14.15
0:21	0.35	20000	58.37	-93.71	25.18	40.53	16.58	26.68	25.37	40.83
0:26	0.43	25000	58.24	-93.56	35.12	56.52	10.53	16.95	35.90	43.64
0:32	0.53	30000	58.09	-93.34	47.15	75.88	12.74	20.51	48.65	37.46
0:43	0.72	40000	57.82	-92.88	71.10	114.43	25.14	40.47	73.79	60.97
0:53	0.88	50000	57.70	-92.60	83.83	134.90	13.49	21.70	87.28	62.17
1:04	1.07	60000	57.51	-92.20	102.73	165.33	19.69	31.69	106.97	53.40
1:15	1.25	70000	57.32	-91.75	122.83	197.67	21.05	33.87	128.02	65.57
1:25	1.42	80000	57.18	-91.23	142.64	229.56	21.85	35.17	149.87	69.04
1:36	1.60	90000	57.12	-90.69	159.57	256.80	20.65	33.24	170.52	68.40
1:47	1.78	100000	57.07	-90.05	179.31	288.58	24.11	38.79	194.63	72.03
1:58	1.97	110000	57.18	-89.31	196.34	315.99	28.85	46.43	223.48	85.22
2:08	2.13	120000	57.34	-88.53	215.44	346.71	31.35	50.46	254.83	96.88
4:00	4.00	120000	59.33	-78.55	542.62	873.27	386.38	621.81	641.21	672.27
6:00	6.00	120000	61.64	-65.14	995.82	1602.63	481.95	775.62	1123.16	1397.43
8:00	8.00	120000	60.48	-56.66	1285.76	2069.23	293.98	473.11	1417.14	1248.73
10:00	10.00	120000	61.58	-40.69	1784.29	2871.55	537.97	865.77	1955.10	1338.87
12:00	12.00	120000	60.75	-24.59	2299.77	3701.13	537.97	865.77	2493.07	1731.54
14:00	14.00	120000	58.52	-9.72	2817.88	4534.95	539.95	868.95	3033.02	1734.73
16:00	16.00	120000	55.96	0.68	3225.56	5191.05	425.96	685.51	3458.98	1554.46
18:00	18.00	120000	52.65	9.61	3636.56	5852.50	425.96	685.51	3884.94	1371.02
20:00	20.00	120000	47.53	15.76	4082.50	6570.17	445.96	717.70	4330.90	1403.21

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ARCTIC FLIGHT			Geographic Conjugate			Dipole Conjugate		Corr. Geomag. Conj.	
Lat	Longitude	Longitude	Lat	Conv. Long	Long	Lat	Long	Lat	Long
58.73	266.19	-93.81	-75.14	-144.51	215.49	-69.66	315.21	-68.72	334.39
58.60	266.19	-93.81	-75.06	-144.14	215.86	-69.53	315.33	-68.59	334.38
58.37	266.29	-93.71	-75.09	-146.3	213.7	-69.84	313.98	-69.04	333.38
58.24	266.44	-93.56	-75.04	-144.95	215.05	-69.62	314.78	-68.74	333.93
58.09	266.66	-93.34	-75.11	-145.75	214.25	-69.78	314.36	-68.94	333.68
57.82	267.12	-92.88	-75.03	-144	216	-69.5	315.39	-68.55	334.37
57.70	267.40	-92.60	-74.99	-140.1	219.9	-68.98	317.84	-67.79	336.2
57.51	267.80	-92.20	-75.18	-141.21	218.79	-69.28	317.38	-68.12	336.02
57.32	268.25	-91.75	-75.33	-141.35	218.65	-69.43	317.49	-68.25	336.24
57.18	268.77	-91.23	-75.41	-139.14	220.86	-69.24	318.99	-67.9	337.45
57.12	269.31	-90.69	-75.63	-138.57	221.43	-69.37	319.64	-67.95	338.15
57.07	269.95	-90.05	-75.9	-137.83	222.17	-69.53	320.46	-68.01	339.02
57.18	270.69	-89.31	-76.26	-136.3	223.7	-69.67	321.87	-67.99	340.42
57.34	271.47	-88.53	-76.75	-136.33	223.67	-70.11	322.51	-68.33	341.37
59.33	281.45	-78.55	-81.86	-117.79	242.21	-73.07	339.52	-69.35	358
61.64	294.86	-65.14	-85.92	-56.92	303.08	-75.77	4.24	-70.1	17.65
60.48	303.34	-56.66	-82	-19.39	340.61	-73.6	22.98	-67.46	28.85
61.58	319.31	-40.69	-76.6	12.87	12.87	-72.43	49.86	-66.57	47.11
60.75	335.41	-24.59	-67.16	20.29	20.29	-65.42	68.79	-61.89	62.04
58.52	350.28	-9.72	-58.31	24.72	24.72	-57.98	79.86	-57.33	73.17
55.96	0.68	-359.32	-50.96	26.72	26.72	-51.34	85.68	-53.23	80.37
52.65	9.61	-350.39	-43.61	28.13	28.13	-44.5	89.94	-48.83	86.52
47.53	15.76	-344.24	-34.69	26.84	26.84	-35.58	91.36	-42.75	90.41