TC4 Flight Plan
TEST FLIGHT #3
July 1, 2007

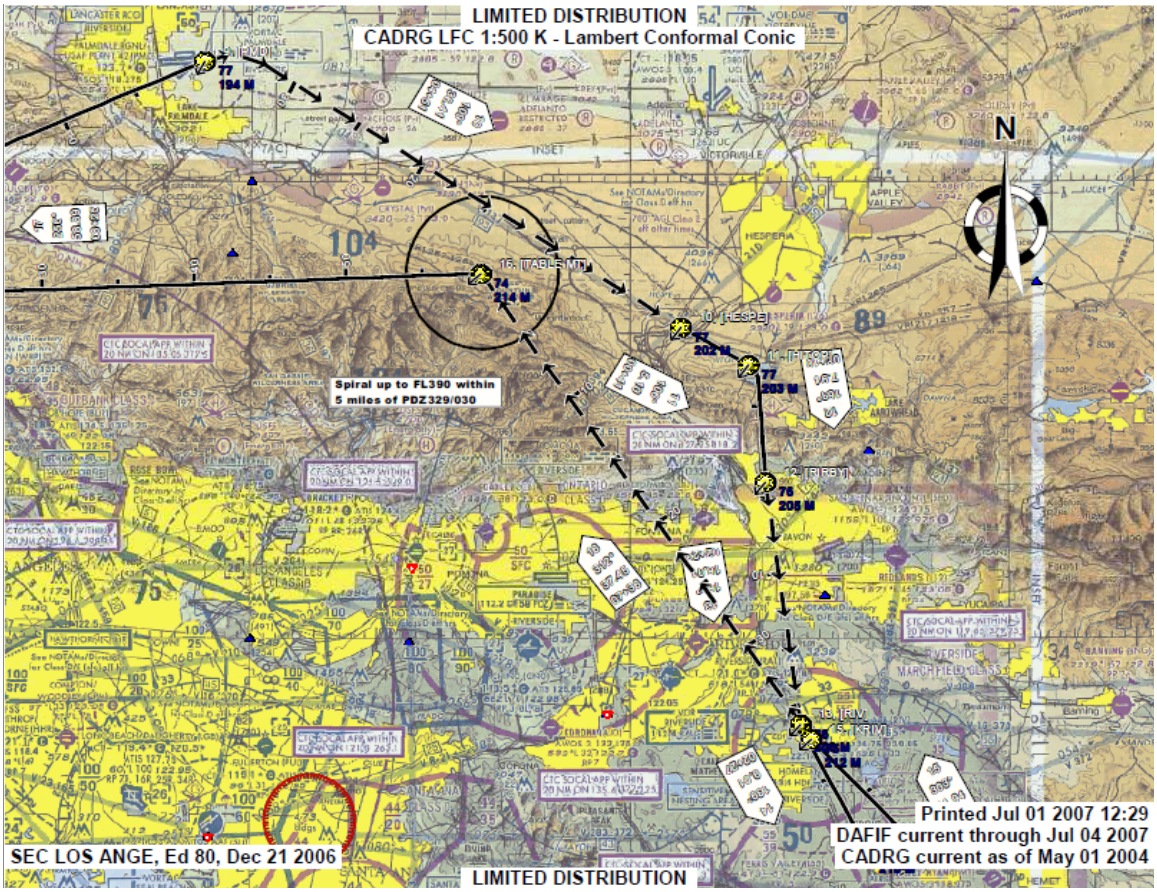
NOTES
1. No Dropsondes.

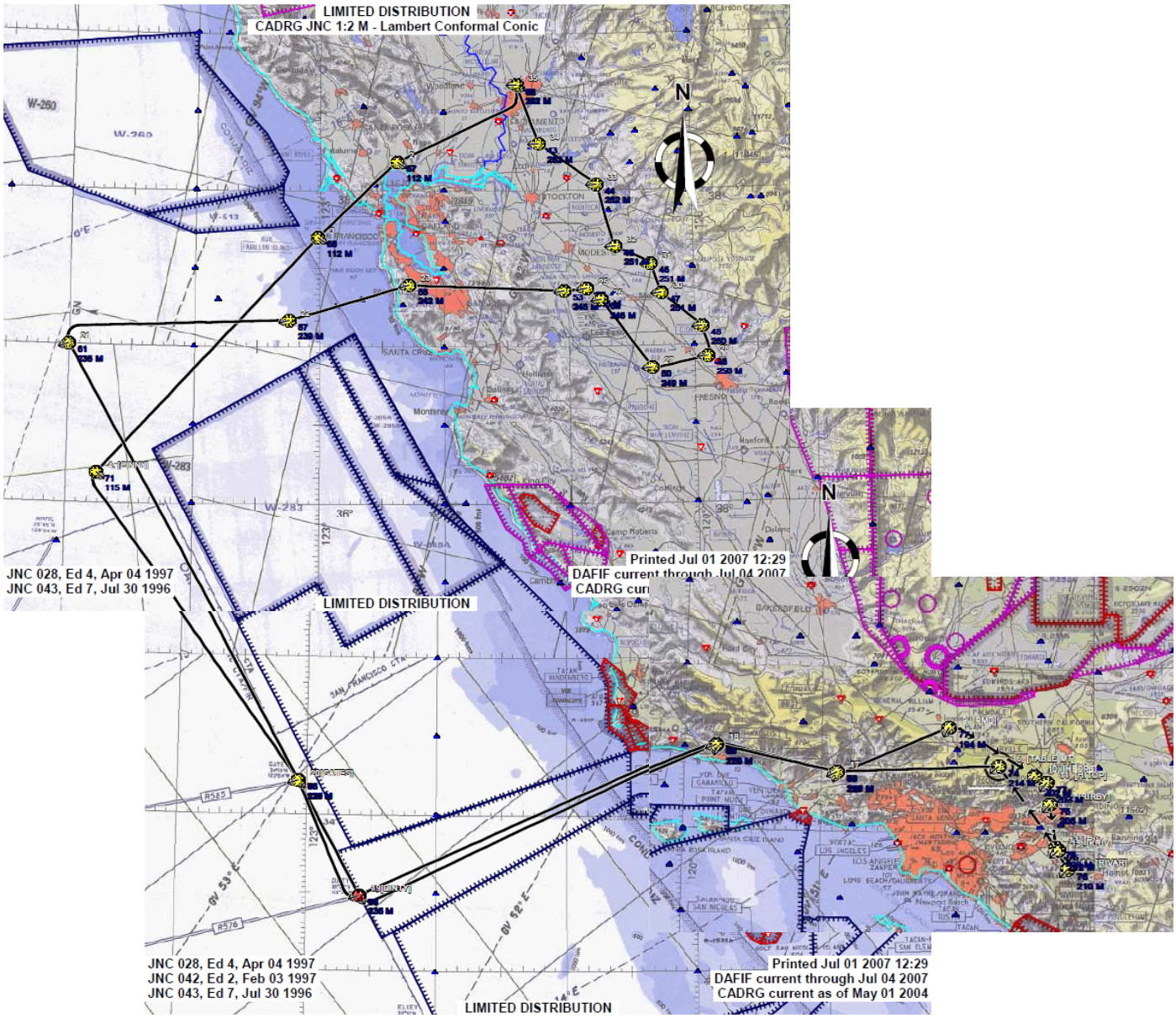
Filed Flight Plan:

T.O. 11:30; 5.5 Hour duration.

Objectives:

Instrument tests
LA smog sample
Table Mountain Profile for NO_2 OMI validation; CO_2 OCO validation tests
Level flight over Pacific for RADAR/LIDAR tests; sample cirrus.
Central Valley low altitude for aerosol and turbulence tests.




LIMITED DISTRIBUTION
CADRG JNC 1:2 M - Lambert Conformal Conic
JNC 028, Ed 4, Apr 04 1997
JNC 043, Ed 7, Jul 30 1996
LIMITED DISTRIBUTION
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DAFIF current through Jul 04 2007
CADRG current as of May 01 2004
JNC 028, Ed 4, Apr 04 1997
JNC 042, Ed 2, Feb 03 1997
JNC 043, Ed 7, Jul 30 1996
LIMITED DISTRIBUTION
Printed Jul 01 2007 12:29
DAFIF current through Jul 04 2007
CADRG current as of May 01 2004

MISSION ID	DATE OF TAKEOFF	ORGANIZATION	SECTION	ACFT TYPE	SERIAL NUMBER
PCF#3	2 JULY 07	**NASA/UND**	**NSERC**	**DC-8**	**NA436**

PILOT	COPILOT	NAVIGATOR	FLIGHT ENGINEER	MISSION DIRECTOR	LEAD SCIENTIST
FULLER	LEWIS	MAGNUSSON	BAKER	MULAK	WENNBERG

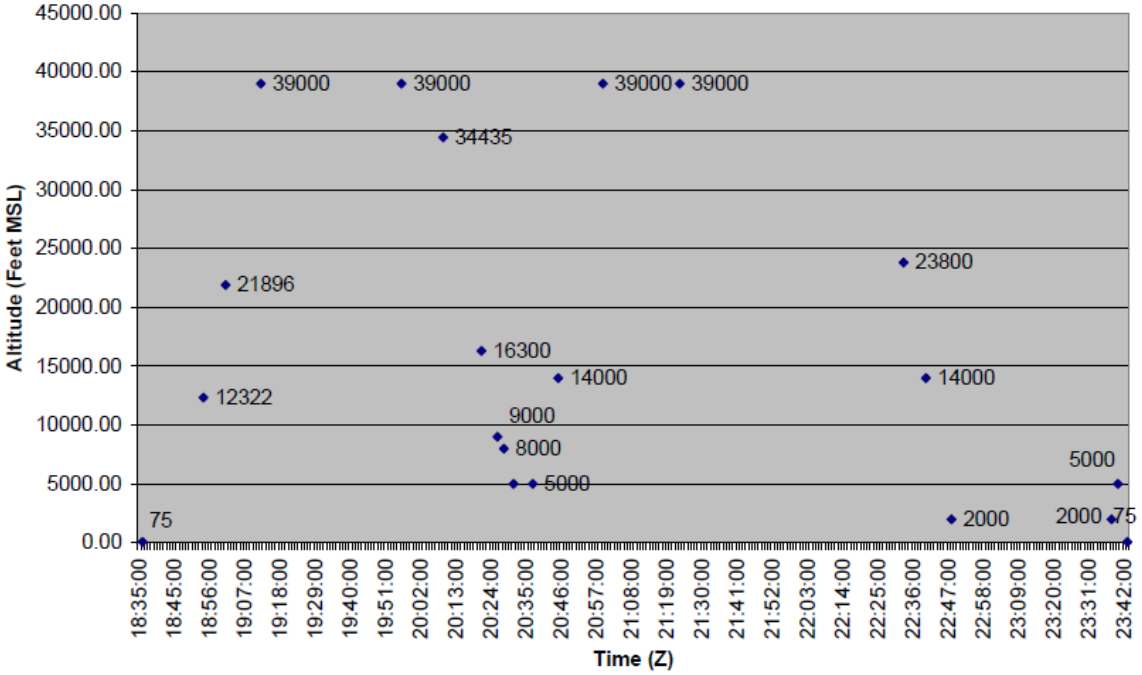
Takeoff Time (Z) : 18:36:35 Fuel Load : 65000 Fuel On Board : N/C

Land Time (Z) : Fuel Used : 24639 Acft Gross Wt : 245000

Sched Duration : 05+06+32 Remarks:

WP#	FIX REMARKS	TAC VOR	LATITUDE LONGITUDE	TC MC	W/V DC	TH MH	TEMP ALT	CAS MACH	TAS	GS	DIST ACDIST	TIME ACTIME	ETA ATA	GROSS WIEGHT
1	KMCC/A		N 38 40.06	180		180	+15C				5	+10.0	18:36.6	
	MC CLELLAN AF		W121 24.04	165	0	165	75M				5	**+10.0**		243500
2	SGD/R	058X	N 38 10.76	245		248	-9C	N/A	N/A	N/A	53	+08.2	18:54.8	
	SCAGGS ISLAND	**112.10**	W122 22.39	230	3	234	12322M	N/A			58	**+18.2**		241323
3	FARRA/W		N 37 41.77	226		230	-28C	N/A	N/A	N/A	42	+06.4	19:01.1	
	FARRA		W123 00.92	211	4	216	21896M	N/A			100	**+24.6**		239621
	.level off		N 36 46.50	223		227	-57C	N/A	N/A	N/A	75	+11.4	19:12.5	
			W124 05.30	208	4	212	39000M	N/A			175	**+36.0**		236580
4	CINNY/W		N 36 10.90	222		222	-57C	225	420	420	48	+06.9	19:19.4	
	CINNY		W124 45.60	208	0	208	39000M	.73			223	**+42.8**		236465
5	GATES/W	071X	N 34 12.68	143		143	-57C	225	420	420	146	+20.9	19:40.3	
	GATES	**112.40**	W123 03.90	129	0	129	39000M	.73			370	**01+03.7**		236117
6	DINTY/W	096X	N 33 28.97	151		151	-57C	225	420	420	50	+07.1	19:47.4	
	DINTY	**114.90**	W122 35.04	137	0	137	39000M	.73			420	**01+10.9**		235998
	.descent pt		N 34 21.35	065		065	-57C	225	420	420	133	+19.1	20:06.5	
			W120 10.61	051	0	051	39000M	.73			553	**01+29.9**		235681
7	RZS/R	096X	N 34 30.57	065		062	-53C	N/A	N/A	N/A	22	+03.1	20:09.5	
	SAN MARCUS	**114.90**	W119 46.26	052	-3	049	34435M	N/A			575	**01+33.0**		235301
8	FIM/R	072X	N 34 21.40	103		102	-35C	N/A	N/A	N/A	45	+06.1	20:15.6	
	FILLMORE	**112.50**	W118 52.88	090	-1	088	25349M	N/A			620	**01+39.0**		234544
9	PMD/R	092X	N 34 37.88	067		064	-17C	N/A	N/A	N/A	44	+06.0	20:21.6	
	PALMDALE	**114.50**	W118 03.83	054	-3	050	16308M	N/A			664	**01+45.0**		233791
10	HESPE/W		N 34 20.47	122		122	-3C	N/A	N/A	N/A	36	+04.9	20:26.5	
	HESPE		W117 25.92	109	0	109	9024M	N/A			701	**01+49.9**		233184
11	HITOP/W		N 34 17.98	119		119	-1C	N/A	N/A	N/A	5	+00.7	20:27.2	
	HITOP		W117 20.55	106	0	106	8000M	N/A			706	**01+50.6**		233099
12	RIRBY/W		N 34 10.27	176		176	-1C	196	220	220	8	+02.2	20:29.3	
	(RIRBY)		W117 19.21	163	0	163	8000M	.34			714	**01+52.7**		233063
	.descent pt		N 34 08.86	172		172	-1C	196	220	220	1	+00.4	20:29.7	
			W117 18.97	159	0	159	8000M	.34			715	**01+53.1**		233057
13	RIV/T	077X	N 33 54.39	172		175	+5C	N/A	N/A	N/A	15	+02.0	20:31.7	
	MARCH		W117 16.50	159	3	162	5000M	N/A			730	**01+55.1**		232807
14	RIVAR/W		N 33 46.42	152		152	+5C	205	220	220	9	+02.5	20:34.2	
	RIVAR		W117 11.43	139	0	139	5000M	.34			739	**01+57.6**		232766
15	KRIV 12/RW		N 33 53.41	315		315	+5C	205	220	220	12	+03.3	20:37.4	
	MARCH ARB		W117 15.63	303	0	303	5000M	.34			751	**02+00.8**		232712
	.level off		N 34 19.19	325		322	-13C	N/A	N/A	N/A	32	+06.0	20:43.4	
			W117 37.66	312	-2	310	14000M	N/A			782	**02+06.8**		231112

WP#	FIX REMARKS	TAC VOR	LATITUDE LONGITUDE	TC MC	W/V DC	TH MH	TEMP ALT	CAS MACH	TAS	GS	DIST ACDIST	TIME ACTIME	ETA ATA	GROSS WIEGHT
16	PDZ/R329030	059X	N 34 23.98	324		324	-13C	178	220	220	6	+01.6	20:45.0	
		112.20	W117 41.79	312	0	312	14000M	.35			788	**02+08.4**		231085
17	FIM/R	072X	N 34 21.40	267		270	-38C	N/A	N/A	N/A	59	+33.4	21:18.4	
	FILLMORE	**112.50**	W118 52.88	254	2	256	26634M	N/A			847	**02+41.8**		228422
18	RZS/R	096X	N 34 30.57	282		283	-57C	N/A	N/A	N/A	45	+06.5	21:24.9	
	SAN MARCUS	**114.90**	W119 46.26	268	1	270	36378M	N/A			892	**02+48.3**		226690
	.level off		N 34 26.50	246		249	-57C	N/A	N/A	N/A	12	+01.8	21:26.7	
			W120 00.44	233	3	236	39000M	N/A			905	**02+50.1**		226224
19	DINTY/W	096X	N 33 28.97	246		246	-57C	225	420	420	141	+20.1	21:46.8	
	RZS/R233153	**114.90**	W122 35.04	232	0	232	39000M	.73			1045	**03+10.2**		225889
20	GATES/W	071X	N 34 12.68	336		336	-57C	225	420	420	52	+07.5	21:54.2	
	MQO/R226130	**112.40**	W123 03.90	323	0	323	39000M	.73			1098	**03+17.7**		225765
21	BEBOP/W	109X	N 37 00.00	330		330	-57C	225	420	420	192	+27.4	22:21.7	
	SAU/R230129	**116.20**	W125 00.07	316	0	316	39000M	.73			1290	**03+45.1**		225308
	.descent pt		N 37 06.95	088		088	-57C	225	420	420	15	+02.2	22:23.8	
			W124 48.10	073	0	073	39000M	.73			1305	**03+47.2**		225272
22	RAINS/W		N 37 10.07	088		085	-32C	N/A	N/A	N/A	75	+10.1	22:33.9	
	RAINS		W123 14.60	073	-2	071	23868M	N/A			1379	**03+57.3**		224011
23	OSI/R	086X	N 37 23.55	074		071	-13C	N/A	N/A	N/A	48	+06.6	22:40.5	
	WOODSIDE	**113.90**	W122 16.88	059	-3	056	14051M	N/A			1427	**04+03.9**		223193
24	MOD/E175017	093X	N 37 21.04	092		091	+11C	N/A	N/A	N/A	60	+08.0	22:48.5	
	MOD17	**114.60**	W121 01.97	078	-2	076	2000M	N/A			1487	**04+11.9**		222189
25	MOD/E145017	093X	N 37 21.90	084		084	+11C	214	220	220	9	+02.4	22:50.9	
	MOD14	**114.60**	W120 51.05	070	0	070	2000M	.33			1496	**04+14.3**		222149
26	MOD/E135023	093X	N 37 17.56	132		132	+11C	214	220	220	7	+01.9	22:52.8	
	MOD13	**114.60**	W120 44.21	117	0	117	2000M	.33			1503	**04+16.2**		222117
27	HYP/E157022	089X	N 36 51.40	144		144	+11C	214	220	220	32	+08.8	23:01.6	
	HYP157	**114.20**	W120 20.30	130	0	130	2000M	.33			1535	**04+25.1**		221970
28	HYP/E111030	089X	N 36 55.33	078		078	+11C	214	220	220	22	+06.1	23:07.7	
	HYP11	**114.20**	W119 53.42	064	0	064	2000M	.33			1558	**04+31.1**		221869
29	CZQ/R323015	076X	N 37 06.90	344		344	+11C	214	220	220	12	+03.4	23:11.1	
	CZQ32	**112.90**	W119 55.95	330	0	330	2000M	.33			1570	**04+34.5**		221812
30	CZQ/R307034	076X	N 37 19.82	310		310	+11C	214	220	220	20	+05.5	23:16.6	
	CZQ30	**112.90**	W120 15.11	295	0	295	2000M	.33			1590	**04+40.0**		221721
31	CZQ/R312046	076X	N 37 31.62	341		341	+11C	214	220	220	13	+03.4	23:20.0	
	CZQ31	**112.90**	W120 20.40	327	0	327	2000M	.33			1603	**04+43.4**		221664
32	LIN/R128032	095X	N 37 38.19	295		295	+11C	214	220	220	15	+04.1	23:24.0	
	LIN12	**114.80**	W120 37.12	281	0	281	2000M	.33			1618	**04+47.5**		221596
33	LIN/R087012	095X	N 38 01.72	345		345	+11C	214	220	220	25	+06.7	23:30.8	
	LIN08	**114.80**	W120 45.80	330	0	330	2000M	.33			1642	**04+54.2**		221484
34	LIN/R304017	095X	N 38 17.48	305		305	+11C	214	220	220	27	+07.4	23:38.1	
	LIN30	**114.80**	W121 13.57	291	0	291	2000M	.33			1669	**05+01.5**		221361
35	KMCC/A		N 38 40.06	340		340	+15C				24	+05.0	23:43.1	
	MC CLELLAN AF		W121 24.04	325	0	325	75M				1693	**05+06.5**		220361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