FLIGHT SUMMARY REPORT

Flight Number: 04-941

Calendar/Julian Date: 21 July 2004 (203)

Sensor Package: Wild-Heerbrugg RC-30
MODIS / ASTER Airborne Simulator (MASTER)
MODIS Airborne Simulator (MAS)

Area(s) Covered: Klamath / Mendocino Coast

Investigator(s): Penberth; California Dept of Conservation **Aircraft Number:** 809

SENSOR DATA

Accession #:	05804	___	___	05818
Sensor ID #:	126	108	124	154
Sensor Type:	RC-30	MAS	MASTER	DCS
Focal Length:	153.21 mm 6”	___	___	50mm
Film Type:	Aerochrome IR SO-734	___	___	___
Filtration:	Wratten 12 +2.2AV	___	___	___
Spectral Band:	510-900 nm	___	___	___
f-Stop:	8	___	___	___
Shutter Speed:	1/325	___	___	___
# of Frames:	145	___	___	___
% Overlap:	60	___	___	___
Quality:	Excellent	___	___	Fair
Remarks:	Subtract 1 minute for correct UTC			

CAMERA FLIGHT LINE DATA
FLIGHT NO. 04-941

Accession # 05804

Sensor # 126

Check Points	Frame Numbers	Time (GMT-hr, min, sec) START	Time (GMT-hr, min, sec) END	Altitude, MSL feet/meters	Cloud Cover/Remarks
A - B	0912-0936	18:21:01	17:51:32	65200/19880	minor cumulus frames 0919-0920
C - D	0937-0959	18:47:29	18:06:21	65100/19850	minor - 10% cumulus frames 0939-0940,0958-0959, minor - 20% cumulus frames 0947-0953.
E - F	0960-0984	19:12:30	19:02:39	65500/19970	minor - 10% cumulus frames 0960-0961,0981-0984, minor - 20% cumulus frames 0967-0973.
G - H	0985-1007	19:38:46	19:59:27	65400/19940	minor - 10% cumulus frames 0985-0992, 0998-1001 and 1005-1007.
I - J	1008-1013	20:17:55	20:22:36	65200/19880	minor - 20% cumulus frames 1008-1009
K - L	1014-1018	20:27:34	20:31:19	65500/19970	clear
M - N	1019-1029	20:34:57	20:44:20	65500/19970	clear
O - P	1030-1041	20:49:42	21:00:02	65300/19910	minor - 50% coastal stratus frames 1030-1038
Q - R	1042-1052	21:03:28	21:12:51	65100/19850	10 - 100% coastal stratus frames 1045-1052
S - T	1053-1056	21:31:58	21:34:47	65300/19910	clear

CAMERA FLIGHT LINE DATA
FLIGHT NO. 04-941

Accession # 05818

Sensor # 154

Check Points	Frame Numbers	Time (GMT-hr, min, sec) START	Time (GMT-hr, min, sec) END	Altitude, GPS feet/meters	Flight Direction / Heading
1 - 2	1436-1484	17:32:18	17:55:56	66300/20210	326° ; northwest
2 - B	1485-1526	17:56:25	18:16:39	66400/20240	334° ; northwest
B	1527-1530	18:17:08	18:18:37	66300/20210	Oblique frames
B - A	1531-1579	18:19:07	18:42:50	66600/20300	89° ; east
A - D	1580-1585	18:43:20	18:45:48	66100/20150	Oblique frames
D - C	1586-1630	18:46:18	19:08:04	66600/20300	270° ; west
C - F	1631-1636	19:08:33	19:11:02	66900/20400	Oblique frames
F - E	1637-1683	19:11:31	19:34:17	66900/20400	91° ; east
E - H	1684-1689	19:34:46	19:37:15	67000/20430	Oblique frames
H - G	1690-1732	19:37:44	19:58:31	66800/20370	269° ; west
G	1733-1736	19:59:01	20:00:30	66600/20300	Oblique frames

MODIS/ASTER AIRBORNE SIMULATOR (MASTER) FLIGHT LINE INFORMATION FOR 21 Jul 2004
NASA FLIGHT NUMBER 04-941-00

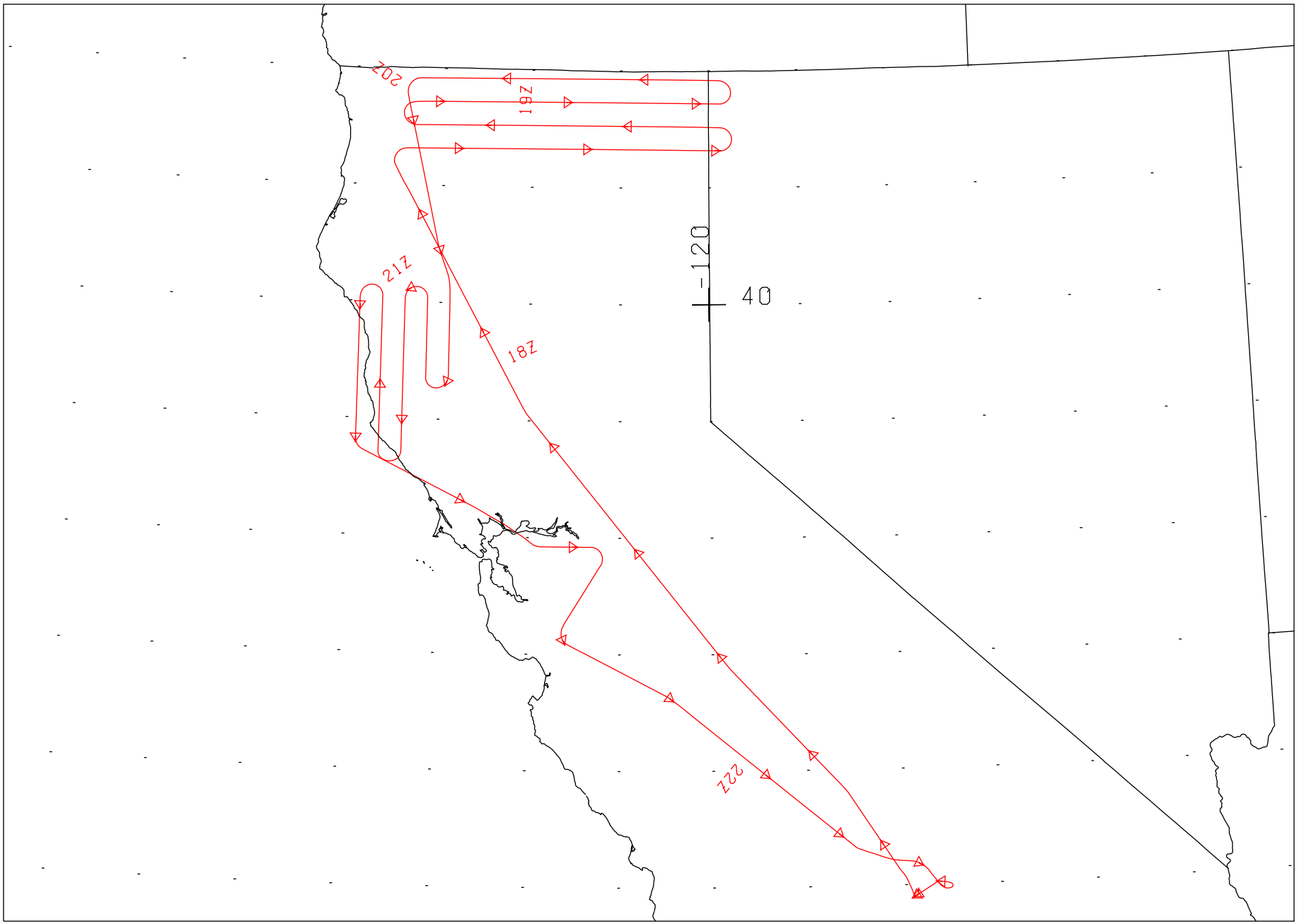
				START OF FLIGHT LINE			END OF FLIGHT LINE			FLIGHT DATA				
FLTL	SITE	LINE	RUN	TIME HH:MM:SS	LAT DEG	LON DEG	TIME HH:MM:SS	LAT DEG	LON DEG	SCAN LINES	SOLAR ZEN	SOLAR AZIM	HEAD DEG	ALT M (MSL)
1	CVP	49	1	17:31:38	36.858	-119.783	17:55:56	39.046	-121.999	9064	36.2	108.9	319.79	19387
2	CVP	50	1	17:56:06	39.061	-122.014	18:17:04	41.163	-123.532	7821	34.3	115.7	330.61	19867
3	CVP	51	1	18:19:02	41.314	-123.397	18:43:15	41.316	-119.865	9031	30.2	127.0	90.03	19755
4	CVP	52	1	18:46:12	41.514	-119.886	19:08:10	41.516	-123.297	8189	26.6	137.3	270.20	19800
5	CVP	53	1	19:11:14	41.713	-123.292	19:34:38	41.716	-119.868	8723	24.1	150.6	89.93	19992
6	CVP	54	1	19:37:28	41.915	-119.884	19:58:58	41.917	-123.260	8018	22.3	164.7	269.01	19921
7	CVP	55	1	20:00:41	41.786	-123.413	20:14:41	40.242	-122.913	5221	20.9	172.7	164.35	19781
8	CVP	56	1	20:16:03	40.088	-122.885	20:22:16	39.377	-122.883	2318	19.5	180.9	178.06	19863
9	CVP	57	1	20:24:58	39.361	-123.134	20:30:57	40.036	-123.133	2235	19.5	186.3	3.83	19925
10	CVP	58	1	20:33:37	40.028	-123.383	20:45:04	38.726	-123.384	4271	19.6	193.8	178.12	19912
11	CVP	59	1	20:47:40	38.724	-123.634	20:59:22	40.044	-123.633	4364	20.4	202.3	3.95	19864
12	CVP	60	1	21:02:05	40.032	-123.884	21:12:41	38.828	-123.884	3951	21.5	210.2	178.36	19816
13	CVP	61	1	21:13:45	38.731	-123.811	21:26:34	38.113	-122.246	4778	22.6	220.4	118.27	19935
14	CVP	62	1	21:26:40	38.107	-122.234	21:28:23	38.007	-122.038	642	23.7	226.5	123.21	19927
15	CVP	63	1	21:30:10	37.922	-121.828	21:34:02	37.921	-121.300	1438	24.6	229.8	92.01	19902
16	CVP	64	1	21:36:05	37.758	-121.196	21:41:23	37.249	-121.588	1971	25.5	233.5	207.86	19804
17	CVP	65	1	21:43:04	37.088	-121.549	21:52:12	36.646	-120.489	3401	26.9	238.5	118.94	19813
18	CVP	66	1	21:52:24	36.634	-120.466	21:56:17	36.383	-120.073	1449	28.4	242.4	127.14	19811

NUMBER OF FILES FOR THIS FLIGHT = 18
TOTAL NUMBER OF SCAN LINES = 86885
DATE THESE FILES WERE PROCESSED = 08-Dec-2004
DATE THIS LIST WAS CREATED = Wed Dec 8 12:19:42 PST 2004
GRANULE VERSION = 1

MODIS AIRBORNE SIMULATOR (MAS) FLIGHT LINE INFORMATION FOR 21 Jul 2004
NASA FLIGHT NUMBER 04-941

	START OF FLIGHT LINE					END OF FLIGHT LINE					FLIGHT DATA		
FLTL	TIME HH:MM:SS	LAT DEG	LON DEG	SOLAR ZEN	SOLAR AZIM	TIME HH:MM:SS	LAT DEG	LON DEG	SOLAR ZEN	SOLAR AZIM	SCAN LINES	HEAD DEG	ALT M (MSL)
1	17:31:43	36.865	-119.791	37.3	105.6	17:55:56	39.046	-121.999	35.1	112.1	9042	320.2	19406
2	17:56:06	39.062	-122.014	35.1	112.2	18:17:04	41.163	-123.532	33.5	119.2	7831	330.6	19867
3	18:19:02	41.314	-123.397	33.1	120.1	18:43:15	41.316	-119.866	27.4	133.9	9041	90.1	19755
4	18:46:12	41.514	-119.886	27.1	135.4	19:08:10	41.516	-123.298	26.1	139.1	8201	270.2	19800
5	19:11:14	41.713	-123.292	25.8	140.8	19:34:38	41.716	-119.868	22.4	160.4	8736	89.9	19992
6	19:37:28	41.915	-119.884	22.5	162.3	19:58:58	41.917	-123.260	22.1	167.1	8029	269.0	19921
7	20:00:41	41.785	-123.413	21.9	167.7	20:14:41	40.242	-122.913	20.0	177.7	5229	164.3	19781
8	20:16:03	40.088	-122.885	19.8	178.7	20:22:16	39.377	-122.883	19.1	183.1	2321	178.1	19863
9	20:24:57	39.361	-123.134	19.1	184.3	20:30:57	40.036	-123.133	19.9	188.3	2239	3.8	19925
10	20:33:37	40.028	-123.383	20.0	189.4	20:45:04	38.726	-123.384	19.2	198.1	4278	178.1	19912
11	20:47:40	38.724	-123.634	19.3	199.2	20:59:22	40.044	-123.633	21.4	205.4	4372	3.9	19864
12	21:02:05	40.033	-123.884	21.5	206.4	21:12:41	38.828	-123.884	21.5	214.1	3958	178.4	19816
13	21:13:45	38.731	-123.811	21.6	215.0	21:26:34	38.113	-122.246	23.6	225.8	4786	118.2	19935
14	21:26:40	38.107	-122.234	23.6	225.9	21:28:23	38.006	-122.038	23.9	227.2	643	123.3	19926
15	21:30:10	37.922	-121.828	24.2	228.5	21:34:02	37.921	-121.300	25.1	231.1	1440	92.0	19902
16	21:36:05	37.758	-121.196	25.4	232.4	21:41:23	37.249	-121.588	25.7	234.7	1975	207.8	19804
17	21:43:04	37.088	-121.549	25.9	235.7	21:52:12	36.645	-120.489	27.9	241.2	3407	118.9	19813
18	21:52:24	36.634	-120.466	28.0	241.3	21:56:20	36.380	-120.067	28.8	243.5	1473	127.2	19811

NUMBER OF FILES FOR THIS FLIGHT = 18
TOTAL NUMBER OF SCAN LINES = 87001
DATE THESE FILES WERE PROCESSED = 22-Nov-2004
DATE THIS LIST WAS CREATED = Tue Nov 23 12:01:43 PST 2004
GRANULE VERSION = 1



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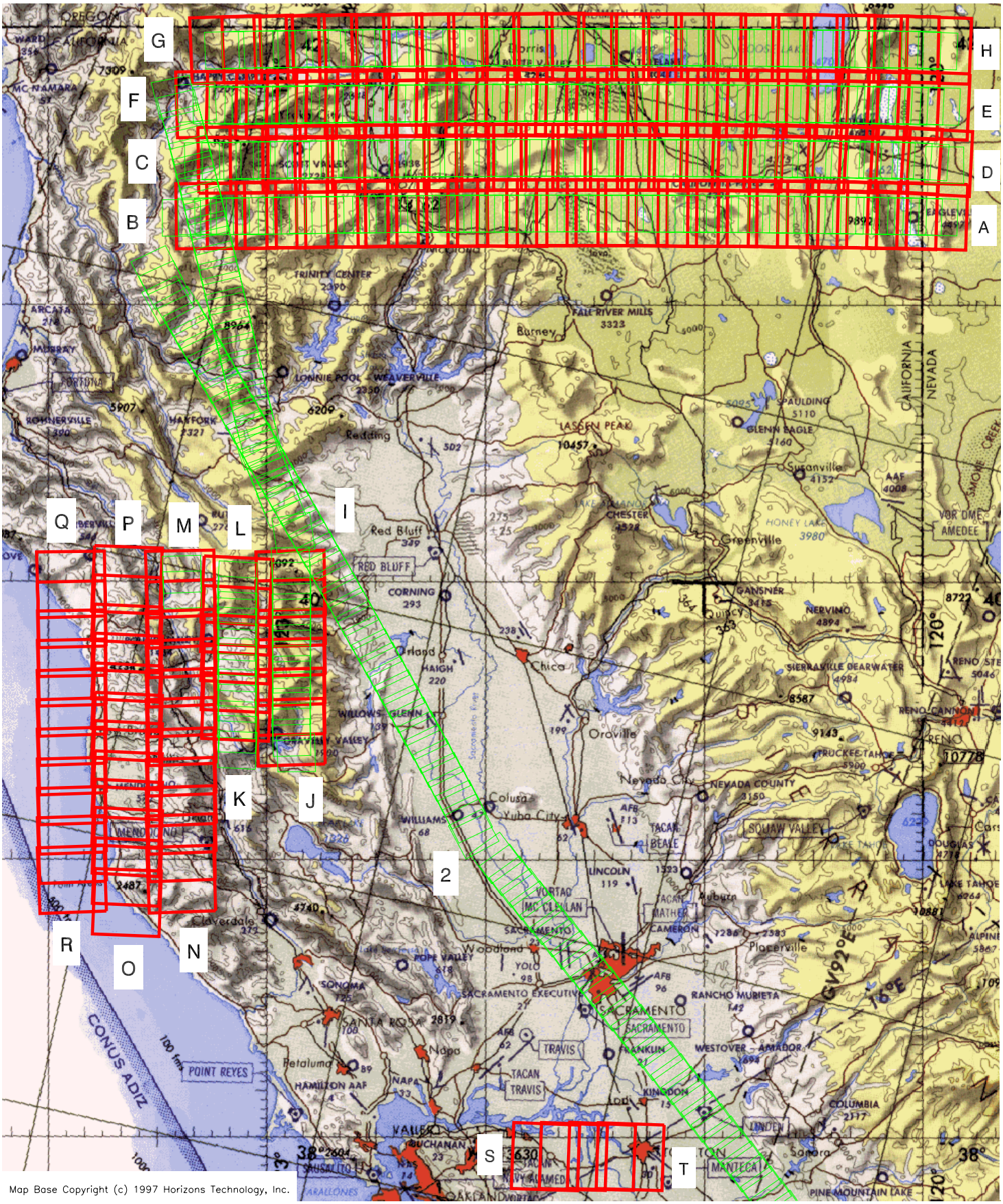

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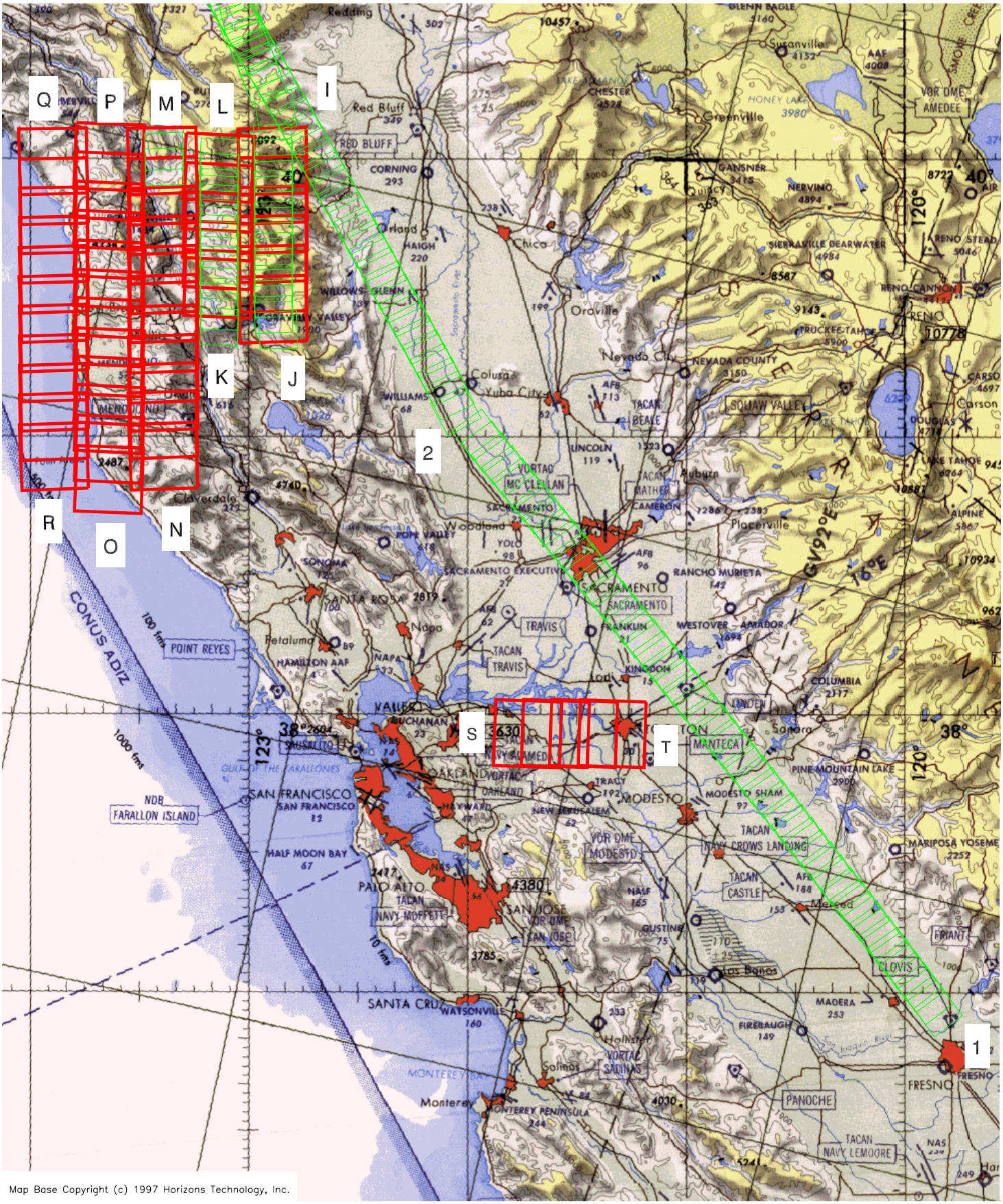

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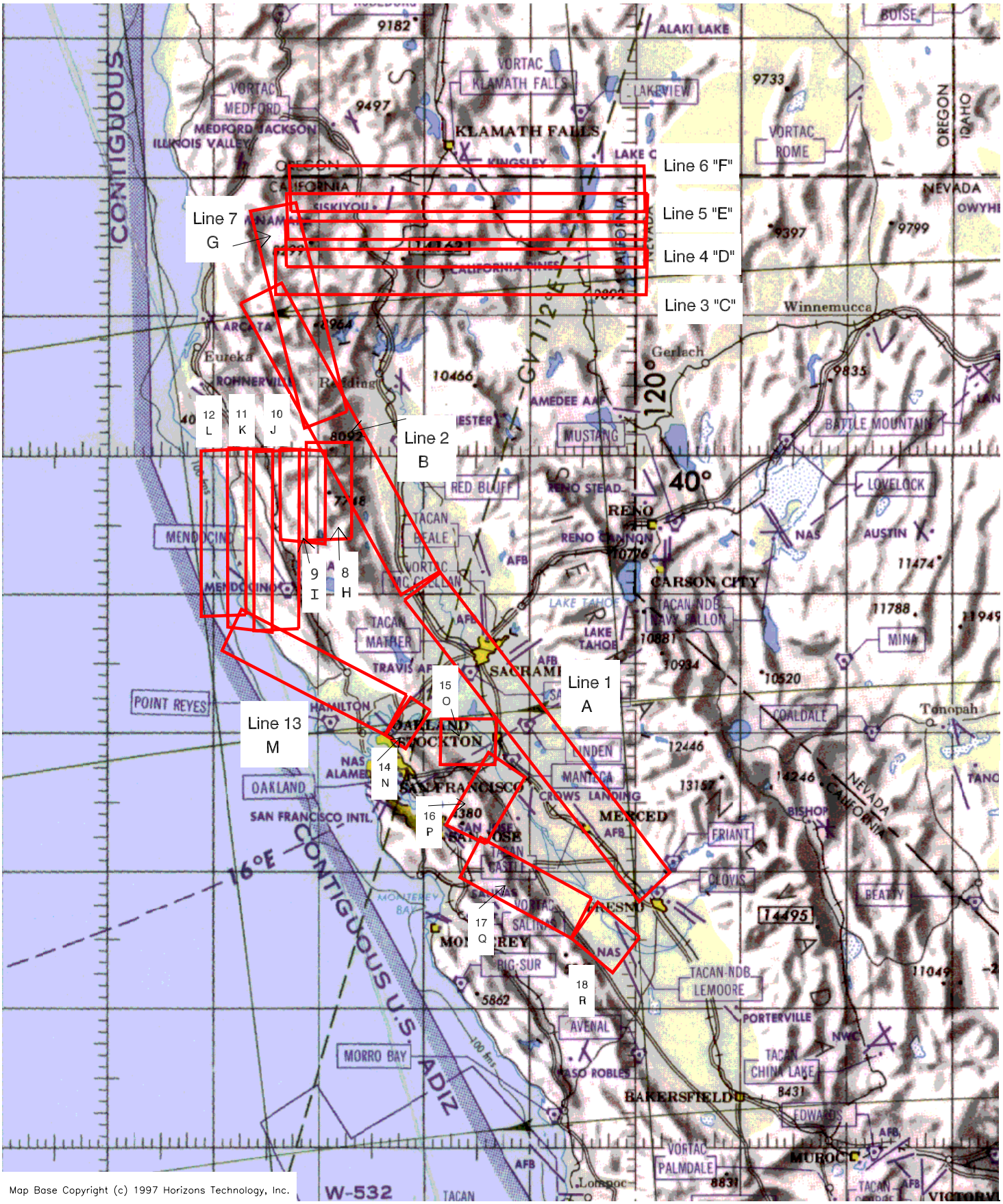
Flight 04-941 21 July 2004 A/C 809 RC-30 DCS



MAS50 / MASTER

A/C 809

21 July 2004

Flight 04-941