FLIGHT SUMMARY REPORT

Flight Number: 04-921

Calendar/Julian Date: 13 April 2004 (104)

Sensor Package: Wild-Heerbrugg RC-10
MODIS Airborne Simulator (MAS)
MODIS/ASTER Airborne Simulator (MASTER)
Scanning High-Resolution Interferometer Sounder (S-HIS)

Area(s) Covered: Colorado, Lake Crowley (Sierra Nevada)

Investigator(s): Dozier, UCSB; **Aircraft Number:** 809
Painter, National Snow & Ice Data Center

SENSOR DATA

Accession #:	05798	___	___	___
Sensor ID #:	026	108	124	083
Sensor Type:	RC-10	MAS	MASTER	SHIS
Focal Length:	304.97 mm 12”	___	___	___
Film Type:	Aerochrome IR SO-134	___	___	___
Filtration:	Wratten 12	___	___	___
Spectral Band:	510-900 nm	___	___	___
f-Stop:	16	___	___	___
Shutter Speed:	1/350	___	___	___
# of Frames:	82	___	___	___
% Overlap:	60	___	___	___
Quality:	Good	___	___	___
Remarks:	Exposure set for snow; subtract 3 seconds for correct UTC			

MODIS/ASTER AIRBORNE SIMULATOR (MASTER) FLIGHT LINE INFORMATION FOR 13 Apr 2004
NASA FLIGHT NUMBER 04-921-00

				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	AZ1	01	1	16:26:38	35.181	-115.057	16:53:25	36.556	-111.582	9999	47.6	113.3	65.31	19244
2	AZ2	01	1	16:53:25	36.556	-111.581	17:16:04	37.560	-108.516	8462	41.4	123.7	69.17	19865
3	CO1	01	1	17:16:15	37.566	-108.491	17:19:24	37.646	-108.040	1177	38.4	129.9	79.49	19806
4	CO2	01	1	17:21:41	37.723	-107.748	17:24:31	38.039	-107.737	1054	37.5	132.5	3.07	19861
5	CO2	02	1	17:27:27	38.149	-107.612	17:30:35	37.793	-107.612	1167	36.6	134.7	180.94	19672
6	CO3	01	1	17:32:34	37.737	-107.419	17:49:31	39.329	-105.948	6330	35.1	141.0	35.01	19815
7	CO4	01	1	17:49:46	39.350	-105.922	17:52:33	39.556	-105.590	1040	34.1	147.0	50.79	19907
8	CO5	01	1	17:54:39	39.746	-105.397	18:02:26	40.645	-105.399	2911	33.9	151.1	359.42	19903
9	CO6	01	1	18:06:11	40.720	-105.798	18:13:34	39.893	-105.801	2755	33.1	155.3	185.25	19908
10	CO7	01	1	18:14:54	39.818	-105.921	18:18:15	39.980	-106.350	1251	32.3	157.3	295.77	19843
11	CO8	01	1	18:21:30	40.229	-106.668	18:28:24	41.022	-106.665	2581	32.6	160.5	358.34	19875
12	CO9	01	1	18:30:02	41.111	-106.823	18:56:49	40.071	-110.413	9999	32.0	165.3	248.81	19832
13	UT1	01	1	18:56:49	40.071	-110.413	19:23:36	39.066	-113.998	9999	30.5	170.8	251.85	19853
14	NV1	01	1	19:23:36	39.066	-113.999	19:50:23	38.083	-117.536	9999	29.2	176.8	250.00	19833
15	NV2	01	1	19:52:09	38.006	-117.760	19:55:58	37.843	-118.243	1422	28.5	180.9	245.73	19799
16	SN1	01	1	19:58:56	37.710	-118.604	20:03:08	37.285	-118.836	1565	28.1	183.1	204.03	19772

NUMBER OF FILES FOR THIS FLIGHT = 16
TOTAL NUMBER OF SCAN LINES = 71711
DATE THESE FILES WERE PROCESSED = 26-May-2004
DATE THIS LIST WAS CREATED = Wed May 26 14:54:43 PDT 2004
GRANULE VERSION = 1

MODIS AIRBORNE SIMULATOR (MAS) FLIGHT LINE INFORMATION FOR 13 Apr 2004
NASA FLIGHT NUMBER 04-921

	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	16:26:38	35.182	-115.057	51.1	108.3	16:53:24	36.555	-111.584	44.0	118.4	9999	65.3	19244
2	16:53:24	36.555	-111.583	44.0	118.4	17:16:05	37.561	-108.516	38.8	129.0	8472	69.2	19866
3	17:16:15	37.566	-108.491	38.7	129.1	17:19:24	37.646	-108.040	38.0	130.7	1177	79.5	19806
4	17:21:42	37.723	-107.748	37.6	131.9	17:24:31	38.039	-107.737	37.4	133.1	1054	3.0	19861
5	17:27:27	38.149	-107.612	37.0	134.4	17:30:34	37.793	-107.612	36.3	135.1	1167	180.9	19672
6	17:32:34	37.737	-107.419	35.8	136.0	17:49:31	39.329	-105.947	34.3	145.9	6334	35.0	19814
7	17:49:46	39.350	-105.922	34.2	146.1	17:52:33	39.556	-105.590	34.0	147.9	1040	50.8	19907
8	17:54:39	39.746	-105.397	33.9	149.2	18:02:26	40.645	-105.399	33.9	153.0	2912	359.4	19903
9	18:06:11	40.721	-105.798	33.8	154.0	18:13:34	39.893	-105.801	32.5	156.6	2757	185.3	19908
10	18:14:54	39.818	-105.921	32.3	156.9	18:18:15	39.980	-106.350	32.4	157.7	1252	295.8	19843
11	18:21:30	40.229	-106.668	32.4	158.8	18:28:24	41.022	-106.665	32.8	162.2	2582	358.3	19875
12	18:30:02	41.111	-106.824	32.8	162.7	18:56:48	40.072	-110.410	31.2	168.0	9999	248.8	19833
13	18:56:48	40.072	-110.411	31.2	168.0	19:23:34	39.067	-113.994	29.8	173.7	9999	251.9	19856
14	19:23:35	39.067	-113.995	29.8	173.7	19:52:07	38.007	-117.755	28.6	180.4	10663	248.4	19850
15	19:52:09	38.006	-117.760	28.6	180.4	19:55:58	37.843	-118.243	28.4	181.4	1422	245.7	19799
16	19:58:56	37.710	-118.604	28.3	182.2	20:03:08	37.285	-118.836	27.9	184.0	1567	204.1	19772

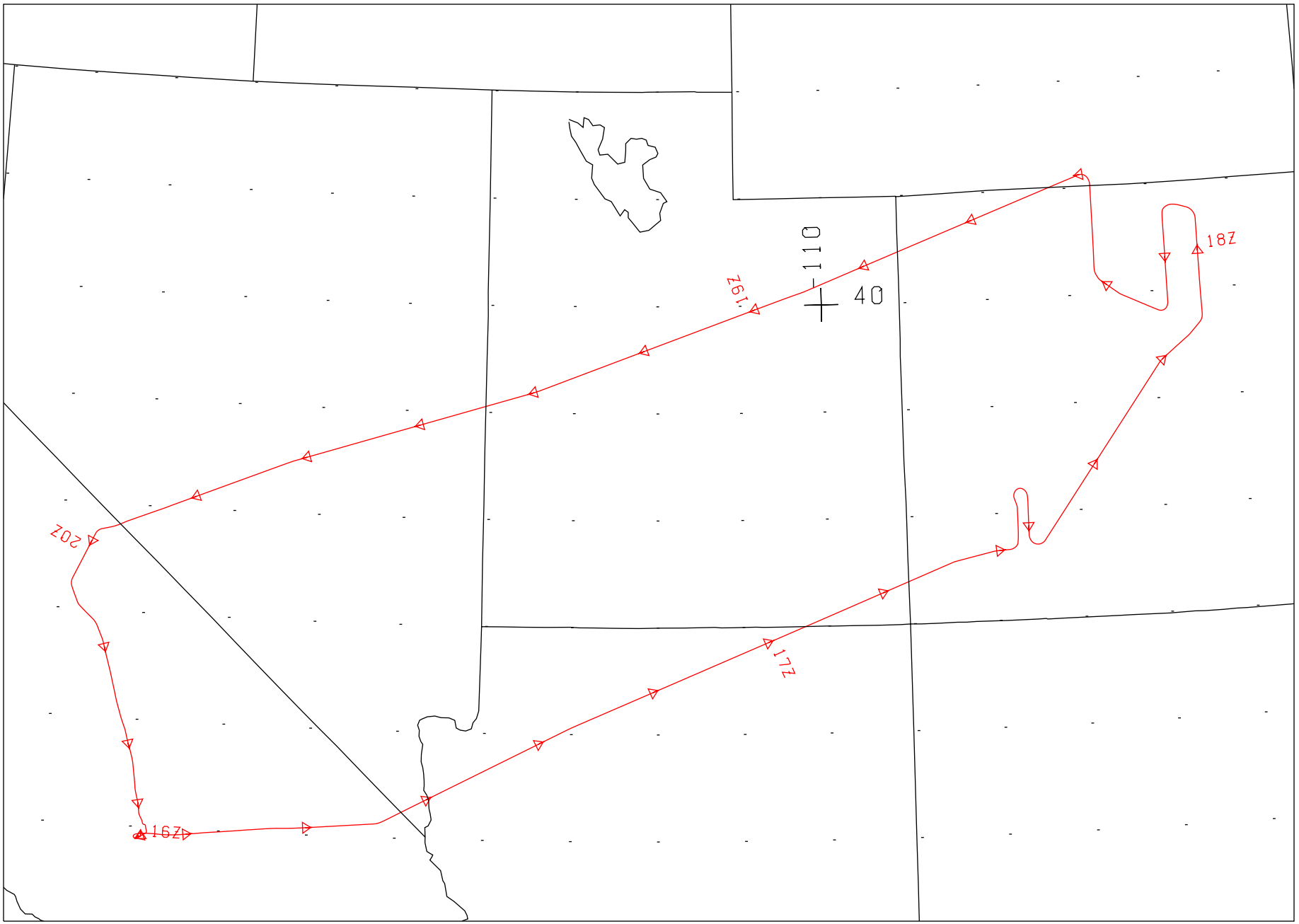
NUMBER OF FILES FOR THIS FLIGHT = 16
TOTAL NUMBER OF SCAN LINES = 72396
DATE THESE FILES WERE PROCESSED = 07-May-2004
DATE THIS LIST WAS CREATED = Fri May 7 13:20:43 PDT 2004
GRANULE VERSION = 1

CAMERA FLIGHT LINE DATA
FLIGHT NO. 04-921

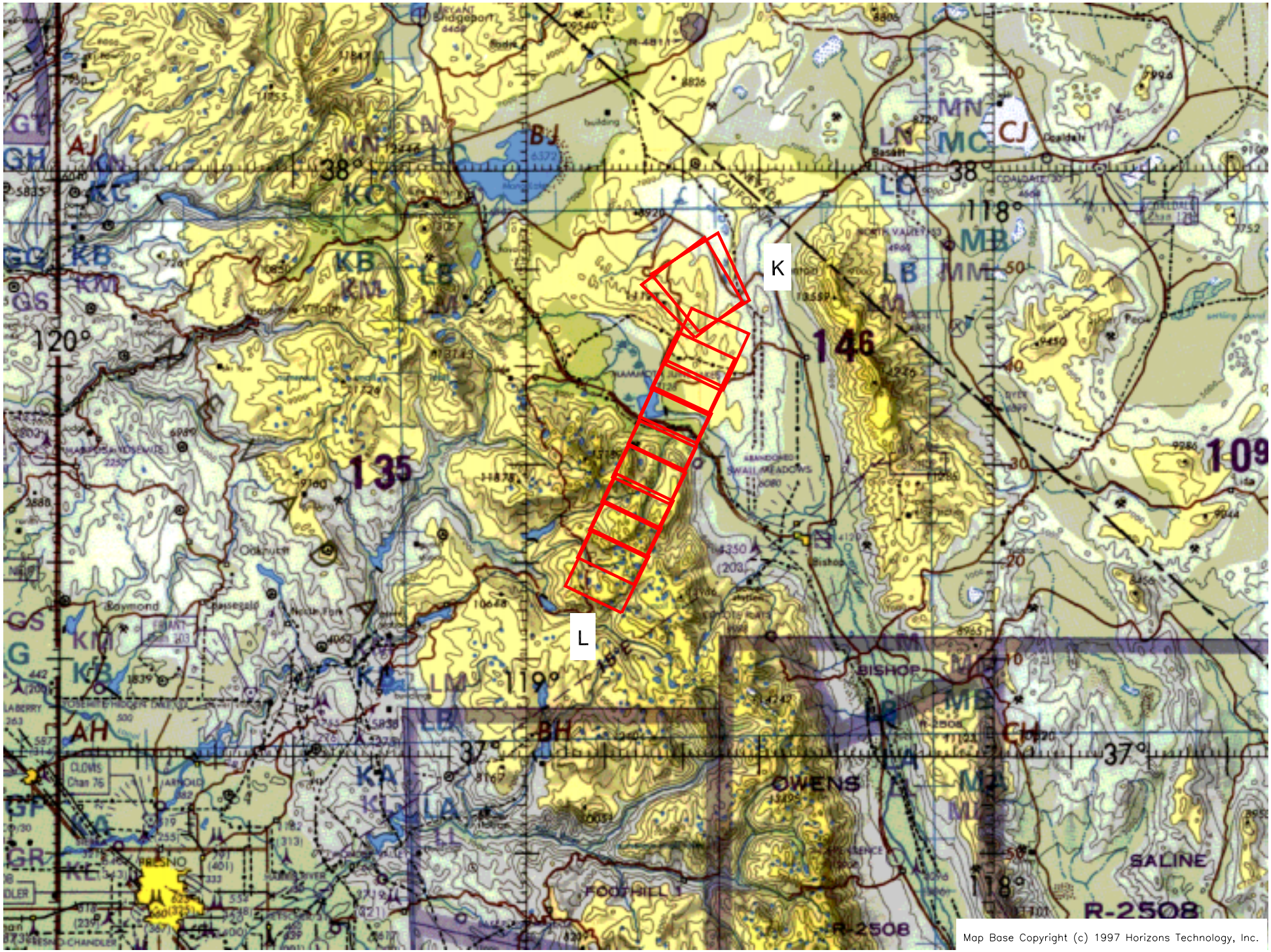
Accession # 05798

Sensor # 026

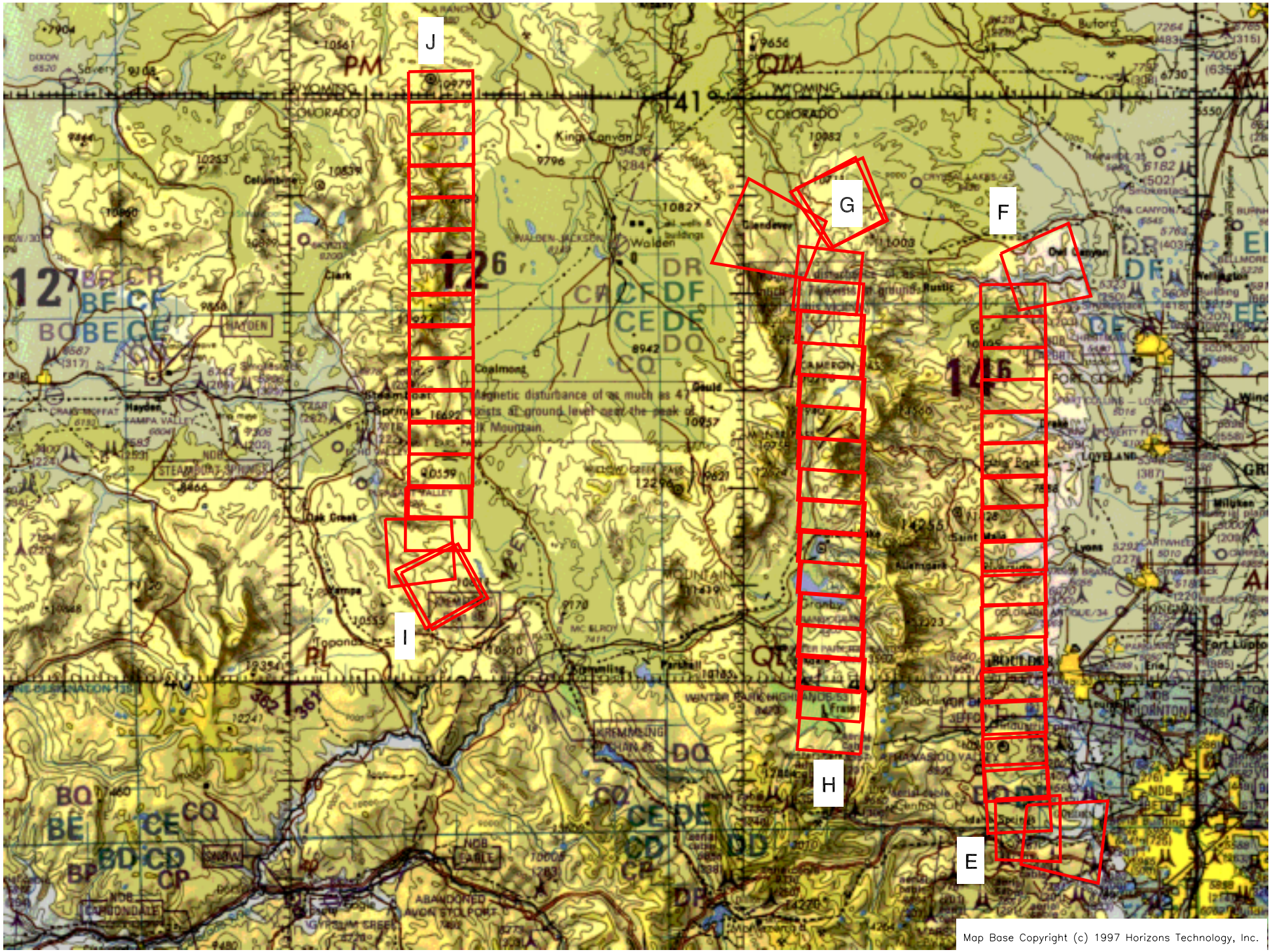
Check Points	Frame Numbers	Time (GMT-hr, min, sec) START	Time (GMT-hr, min, sec) END	Altitude, MSL feet/meters	Cloud Cover/Remarks
A - B	1483-1490	17:21:20	17:24:16	65500/19970	Clear, frames 1483-1484 oblique
C - D	1491-1499	17:27:07	17:30:33	64600/19700	Clear, frames 1491-1492 oblique
E - F	1500-1518	17:54:37	18:02:49	65300/19910	10% cumukus, frames 1501-1504 and 1506-1512; 20-40% cumulus, frames 1513-1518; frame 1500 oblique; static discharge, frame 1518 and is oblique
G - H	1519-1536	18:05:31	18:13:14	65300/19910	10-40% cumulus, frames 1519-1521 oblique; static discharge, frame 1536
I - J	1537-1553	18:20:58	18:28:12	65300/19910	10-30% cumulus, frames 1537-1539 oblique
K - L	1554-1564	19:58:32	20:02:54	65000/19820	20-80% cumulus; frames 1554-1585 oblique



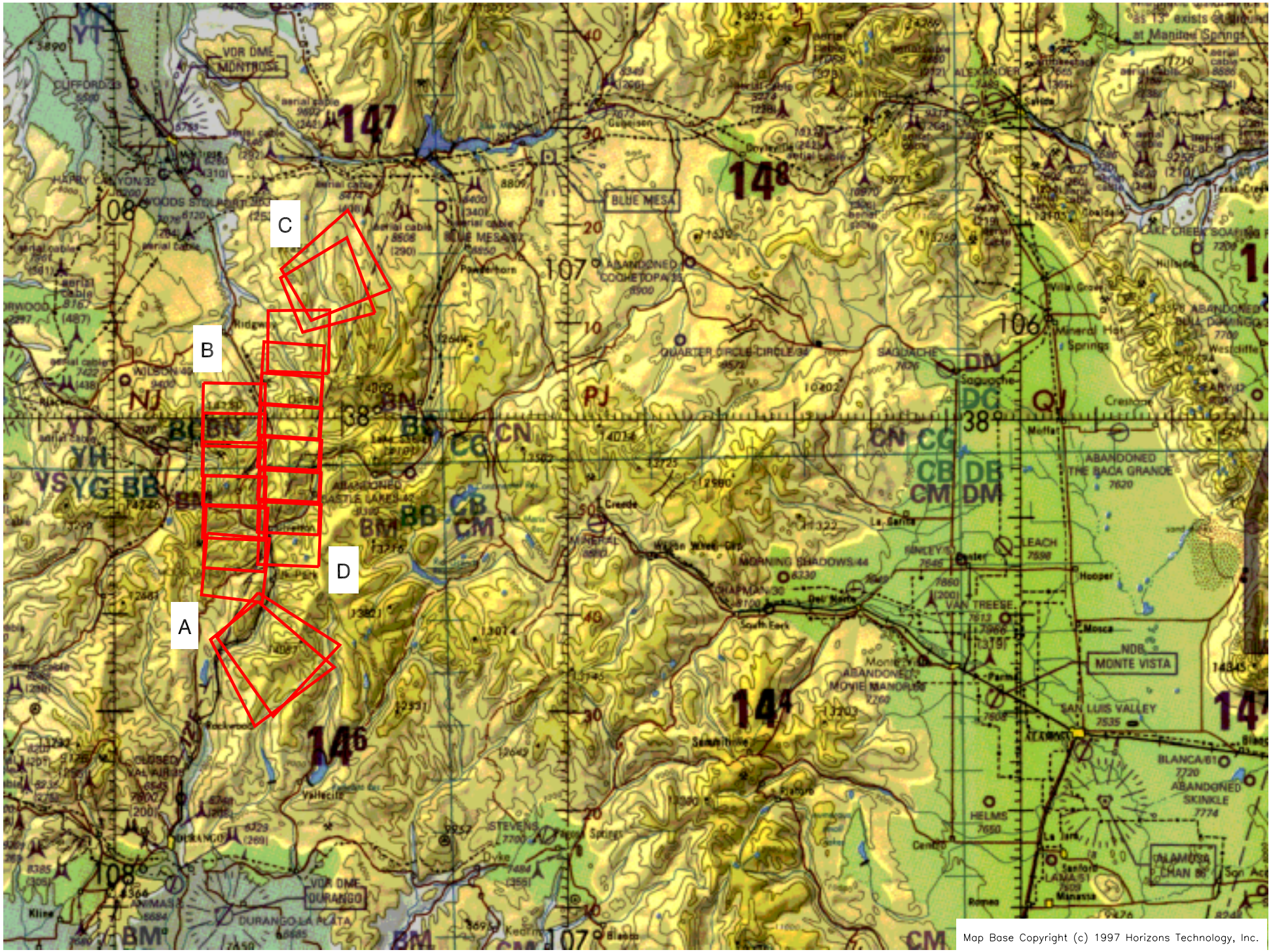
FLIGHT 04-9021 / 04-921 13 APRIL 2004 A/C 809 MAS / MASTER / S-HIS / RC-10



Flight 04-921 13 April 2004 A/C 809 RC-10



Flight 04-921 13 April 2004 A/C 809 RC-10



Flight 04-921 13 April 2004 A/C 809 RC-10