

FLIGHT SUMMARY REPORT

Flight #: 92-072
Date: 19 March 1992
Sensor Package: Hycon HR-732
Wild-Heerbrug RC-10
Area(s) Covered: East Texas Coastline

Investigator(s): Handley, USFWS

Aircraft #: 706

Flight Request: 92R22037

Julian Date: 079

SENSOR DATA

Accession #:	04391	04392
Sensor ID #:	018	036
Sensor Type:	HR-732	RC-10
Focal Length:	24" 609.6 mm	6" 153.19 mm
Film Type:	High Definition Aerochrome IR SO-131	Panatomic-X Aerographic II 2412
Filtration:	20B	Wratten 12 + 2.2 AV
Spectral Band:	510-900 nm	510-700 nm
f Stop:	8	5.6
Shutter Speed:	1/75	1/300
# of Frames:	152	39
% Overlap:	60	60
Quality:	Excellent	Excellent
Remarks:		

Airborne Science and Applications Program

The Airborne Science and Applications Program (ASAP) is supported by three ER-2 high altitude Earth Resources Survey aircraft. These aircraft are operated by the High Altitude Missions Branch at NASA-Ames Research Center, Moffett Field, California. The ER-2s are used as readily deployable high altitude sensor platforms to collect remote sensing and *in situ* data on earth resources, celestial phenomena, atmospheric dynamics, and oceanic processes. Additionally, these aircraft are used for electronic sensor research and development and satellite investigative support.

The ER-2s are flown from various deployment sites in support of scientific research sponsored by NASA and other federal, state, university, and industry investigators. Data are collected from deployment sites in Kansas, Texas, Virginia, Florida, and Alaska. Cooperative international scientific projects have deployed the aircraft to sites in Great Britain, Australia, Chile, and Norway.

Photographic and digital imaging sensors are flown aboard the ER-2s in support of research objectives defined by the sponsoring investigators. High resolution mapping cameras and digital multispectral imaging sensors are utilized in a variety of configurations in the ER-2s' four pressurized experiment compartments. The following provides a description of the camera system(s) used for data collection during this flight.

Camera Systems

Various camera systems and films are used for photographic data collection. Film types include high definition color infrared, natural color, and black and white emulsions. Available photographic systems are as follows:

- Wild-Heerbrug RC-10 metric mapping camera
 - 9 x 9 inch film format
 - 6 inch focal length lens provides area coverage of 16 x 16 nautical miles from 65,000 feet
 - 12 inch focal length lens provides area coverage of 8 x 8 nautical miles from 65,000 feet
- Hycon HR-732 large scale mapping camera
 - 9 x 18 inch film format
 - 24 inch focal length lens provides area coverage of 4 x 8 nautical miles from 65,000 feet
- IRIS II Panoramic camera
 - 4.5 x 34.7 inch film format
 - 24 inch focal length lens
 - 90 degree field of view provides area coverage of 2 x 21.4 nautical miles from 65,000 feet

The U.S. Geological Survey's EROS Data Center at Sioux Falls, South Dakota serves as the archive and product distribution facility for NASA-Ames aircraft acquired photographic and digital imagery. For information regarding photography and digital data (including areas of coverage, products, and product costs) contact EROS Data Center, Customer Services, Sioux Falls, South Dakota 57198 (Telephone: (605) 594-6151).

Additional information regarding ER-2 acquired photographic and digital data is available through the Aircraft Data Facility at Ames Research Center. For specific information regarding flight documentation, sensor parameters, and areas of coverage contact the Aircraft Data Facility, NASA-Ames Research Center, Mail Stop 240-6, Moffett Field, California 94035-1000 (Telephone: (415) 604-6252).

CAMERA FLIGHT LINE DATA
FLIGHT NO. 92-072

Accession # 04391

Sensor # 018

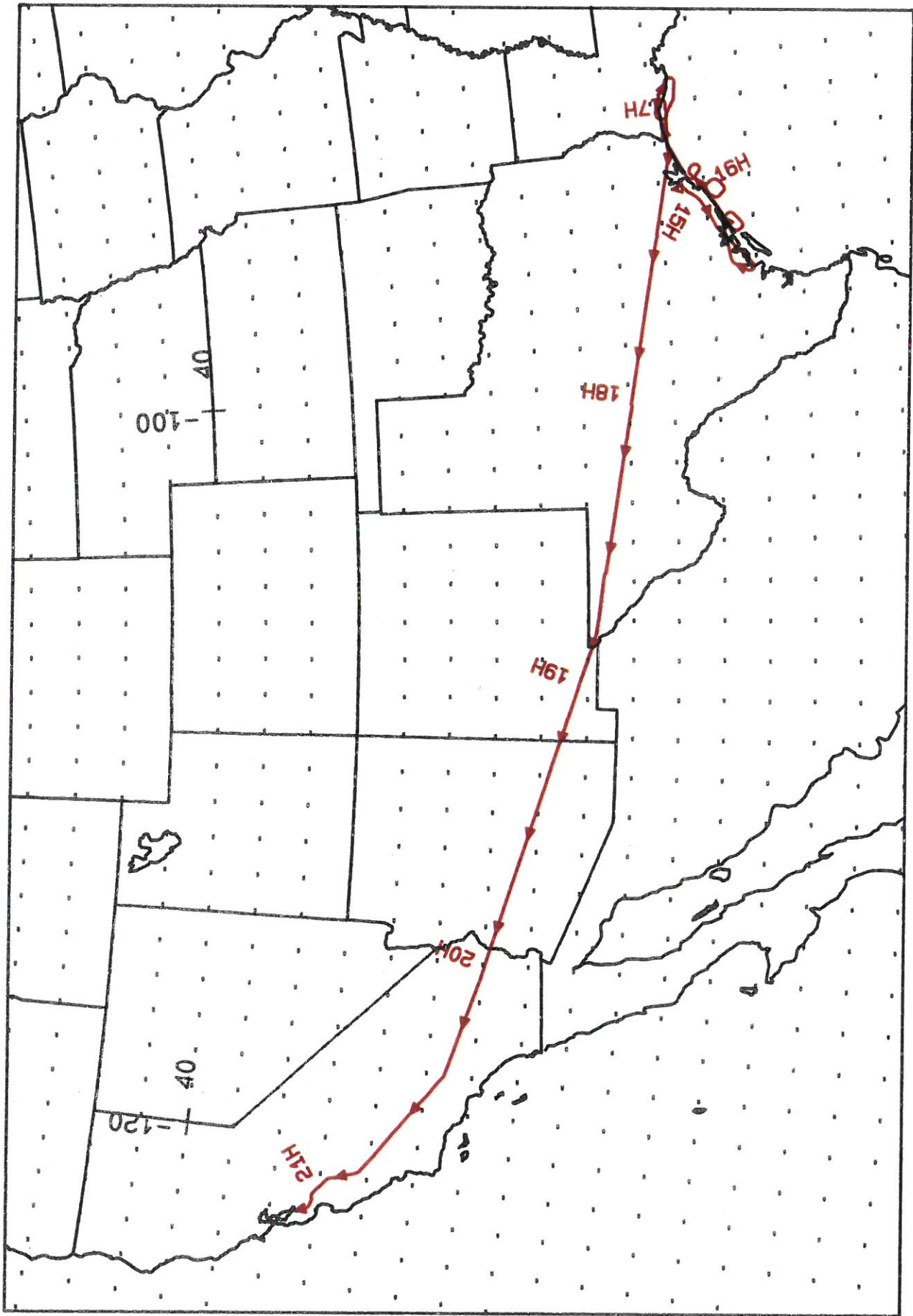
Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
		START	END		
A - B	0001-0014	15:36:05	15:39:15	65000/19800	Clear
C - D	0015-0047	15:49:04	15:56:50	"	Clear
E - F	0048-0064	16:08:12	16:12:04	"	Clear
G - H	0065-0095	16:20:29	16:27:43	"	Clear
I - J	0096-0119	16:29:27	16:35:01	"	Clear
K - L	0120-0143	16:45:42	16:51:15	"	Clear
M - N	0144-0152	17:05:25	17:07:20	"	Clear

**CAMERA FLIGHT LINE DATA
FLIGHT NO. 92-072**

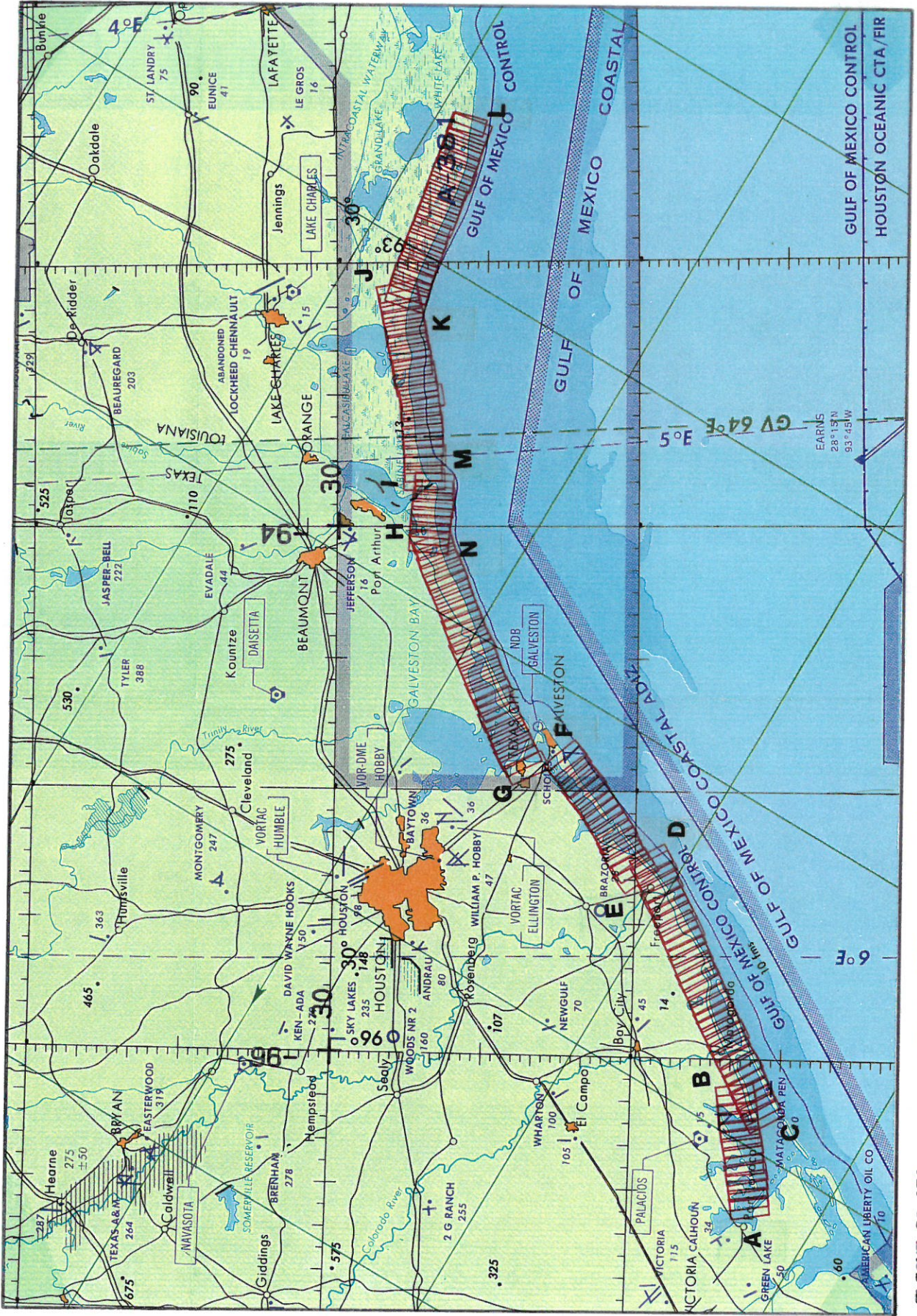
Accession # 04392

Sensor # 036

Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
		START	END		
C - D	1001-1009	15:52:02	15:59:32	65000/19800	Clear
E - F	1010-1014	16:11:10	16:14:53	"	Clear
G - H	1015-1022	16:23:26	16:29:57	"	Clear
I - J	1023-1029	16:32:24	16:38:00	"	Clear
K - L	1030-1036	16:48:40	16:54:14	"	Clear
M - N	1037-1039	17:08:22	17:10:13	"	Clear



FLIGHT 92-072 19 March 1992 A/C 706 HR-732 / RC-10 Ferry to Moffett Field, CA



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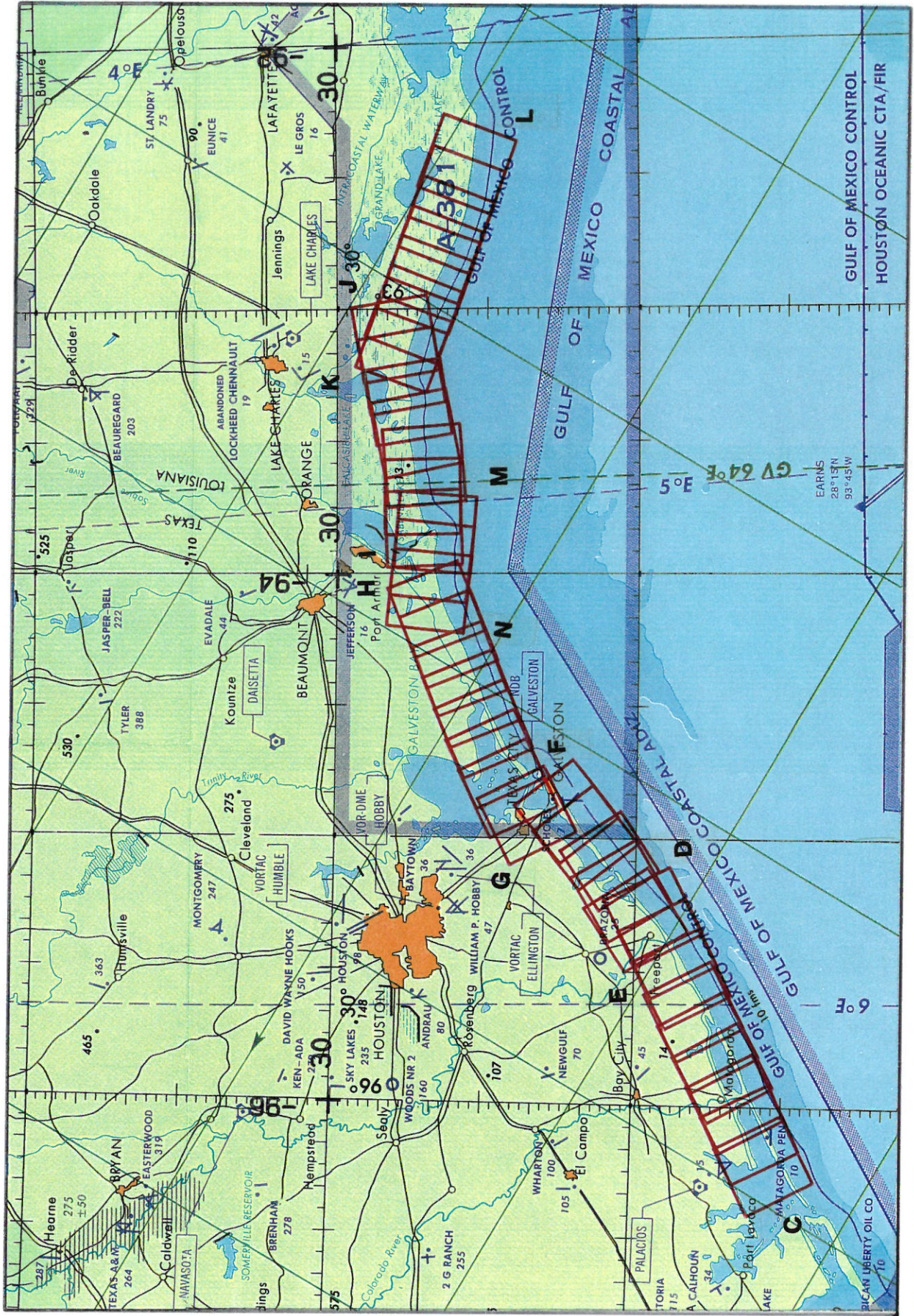
19 March 1992

A/C 706

HR-732

Accession # 04991

JNC 44



FLIGHT 92-072

19 March 1992

A/C 705

RC-10 (2412)

Accession # 04392

JNC 44