

## FLIGHT SUMMARY REPORT

**Flight Number:** 01-053  
**Calendar/Julian Date:** 22 March 2001 • 081  
**Sensor Package:** Dual Hycon HR-732  
 Modis Airborne Simulator (MAS)  
 Video Imaging System (VIS)  
 Scanning High-Resolution Interferometer Sounder (S-HIS)  
**Area(s) Covered:** Southern Louisiana/Gulf of Mexico  
**Investigator(s):** Moeller, CIMSS; **Aircraft #:** 806  
 Handley, USBS National Wetlands Center

### SENSOR DATA

|                       |                                    |   |       |      |       |
|-----------------------|------------------------------------|---|-------|------|-------|
| <b>Accession #:</b>   | 05591                              | 05592                                   | ----  | ---- | ----  |
| <b>Sensor ID #:</b>   | 039                                | 020                                     | 108   | 118  | 083   |
| <b>Sensor Type:</b>   | HR732                              | HR732                                   | MAS50 | VIS  | S-HIS |
| <b>Focal Length:</b>  | 24"<br>609 mm                      | 24"<br>609 mm                           | ----  | ---- | ----  |
| <b>Film Type:</b>     | Aerochrome IR<br>SO-134            | Aerochrome IR<br>SO-134                 | ----  | ---- | ----  |
| <b>Filtration:</b>    | Wratten 12                         | Wratten 12                              | ----  | ---- | ----  |
| <b>Spectral Band:</b> | 510-900nm                          | 510-900nm                               | ----  | ---- | ----  |
| <b>f Stop:</b>        | 11                                 | 12.7                                    | ----  | ---- | ----  |
| <b>Shutter Speed:</b> | 1/250                              | 1/250                                   | ----  | ---- | ----  |
| <b># of Frames:</b>   | 365                                | 151                                     | ----  | ---- | ----  |
| <b>% Overlap:</b>     | 60                                 | 60                                      | ----  | ---- | ----  |
| <b>Quality:</b>       | Good                               | Excellent                               | ----  | ---- | ----  |
| <b>Remarks:</b>       | Add 16 seconds<br>for correct time | Subtract 10 seconds<br>for correct time |       |      |       |

**CAMERA FLIGHT LINE DATA**  
**FLIGHT NO. 01-053**

Accession # 05591

Sensor # 039

| Check Points  | Frame Numbers | Time (GMT-hr, min, sec) |          | Altitude, MSL<br>feet/meters | Cloud Cover/Remarks           |
|---|---------------|-------------------------|----------|------------------------------|-------------------------------|
|   |               | START                   | END      |                              |                               |
| A - B   | 2290-2365     | 18:14:02                | 18:31:59 | 60600/18480                  | Clear                         |
| C - D   | 2366-2461     | 18:38:35                | 19:01:18 | 60600/18480                  | 10% cumulus, frames 2377-2384 |
| E - F   | 2462-2552     | 19:10:54                | 19:32:23 | 60700/18510                  | 10% cumulus, frames 2547-2548 |
| G - H   | 2553-2654     | 19:38:59                | 20:03:06 | 60700/18510                  | Clear                         |
| Intermittent static discharges throughout roll. Light leak center of every frame. |               |                         |          |                              |                               |

**CAMERA FLIGHT LINE DATA**  
**FLIGHT NO. 01-053**

Accession # 05592

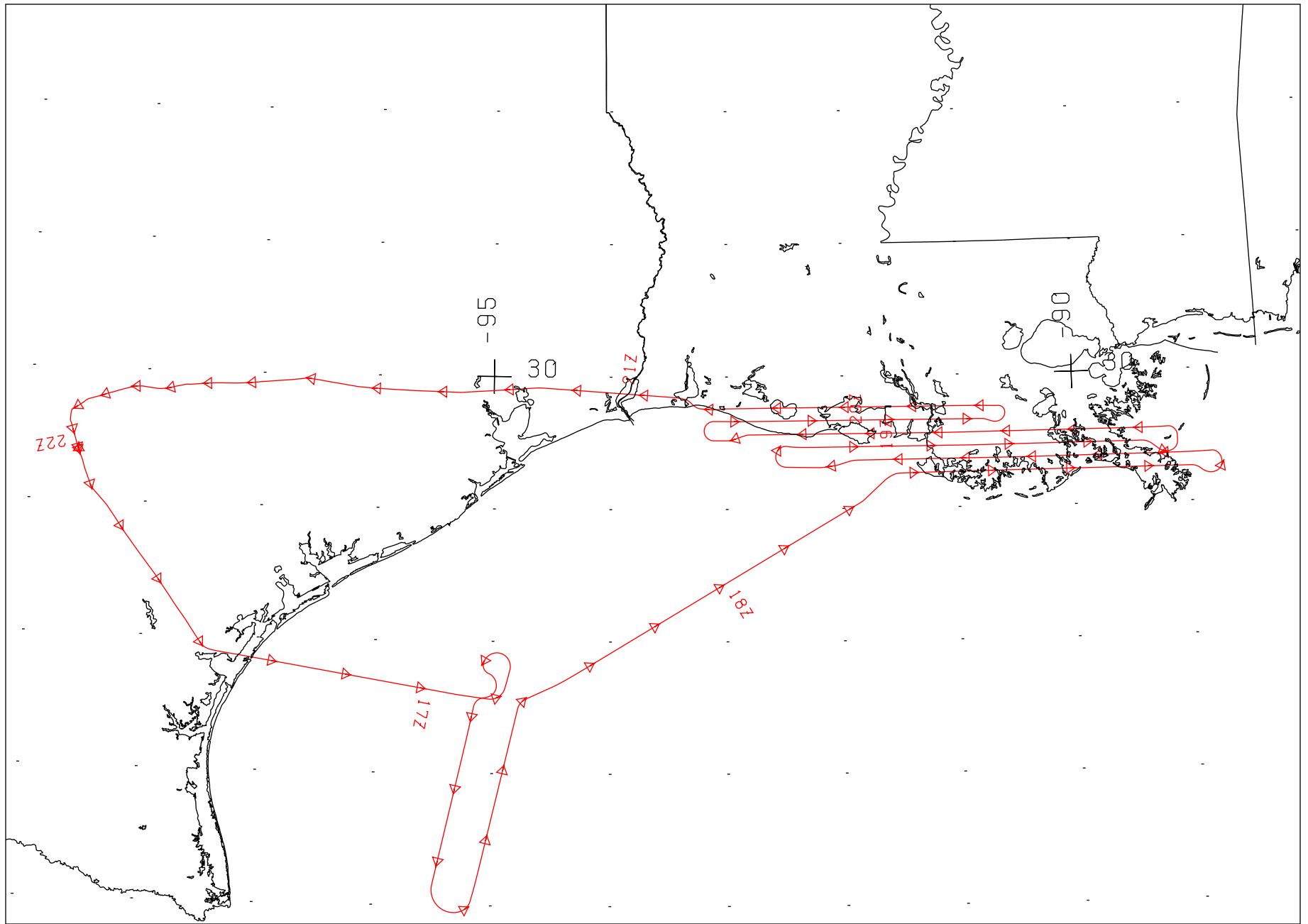
Sensor # 020

| Check Points | Frame Numbers | Time (GMT-hr, min, sec) |          | Altitude, MSL<br>feet/meters | Cloud Cover/Remarks   |
|--------------|---------------|-------------------------|----------|------------------------------|---|
|              |               | START                   | END      |                              |   |
| I - J        | 2130-2199     | 20:13:49                | 20:30:17 | 60700/18510                  | Clear   |
| K - L        | 2200-2280     | 20:34:09                | 20:53:16 | 60700/18510                  | Clear; small static discharges, frames 2205, 2214, 2217, 2223, 2225, 2226, 2230, 2233, 2235 and 2237; frames 2280 oblique |

MODIS AIRBORNE SIMULATOR (MAS) FLIGHT LINE INFORMATION FOR 22 Mar 2001  
 NASA FLIGHT NUMBER 01-053

| START OF FLIGHT LINE |                  |            |            |       |       |                  | END OF FLIGHT LINE |            |            |       |       |               |
|----------------------|------------------|------------|------------|-------|-------|------------------|--------------------|------------|------------|-------|-------|---------------|
| LINE                 | TIME<br>HH:MM:SS | LAT<br>DEG | LON<br>DEG | SOLAR |       | START<br>HEADING | TIME<br>HH:MM:SS   | LAT<br>DEG | LON<br>DEG | SOLAR |       | SCAN<br>LINES |
|                      |                  |            |            | ZEN   | AZIM  |                  |                    |            |            | ZEN   | AZIM  |               |
| 1                    | 16:49:09         | 27.839     | -96.972    | 74.1  | 262.1 | 98.90            | 17:04:22           | 27.837     | -96.956    | 74.1  | 262.1 | 5682          |
| 2                    | 17:14:09         | 27.504     | -95.147    | 79.6  | 265.2 | 193.58           | 17:26:27           | 27.490     | -95.150    | 79.6  | 265.2 | 4593          |
| 3                    | 17:30:30         | 26.031     | -95.158    | 83.1  | 267.3 | 12.81            | 17:44:09           | 26.045     | -95.153    | 83.1  | 267.3 | 5098          |
| 4                    | 17:45:15         | 27.576     | -94.679    | 86.4  | 268.9 | 65.56            | 18:10:35           | 27.583     | -94.663    | 86.5  | 268.9 | 9455          |
| 5                    | 18:10:44         | 29.055     | -91.822    | 92.0  | 271.8 | 50.99            | 18:12:44           | 29.065     | -91.808    | 92.1  | 271.9 | 753           |
| 6                    | 18:13:47         | 29.260     | -91.501    | 92.7  | 272.2 | 85.39            | 18:32:21           | 29.261     | -91.484    | 92.7  | 272.2 | 6932          |
| 7                    | 18:36:03         | 29.367     | -88.806    | 97.5  | 275.0 | 267.50           | 19:02:49           | 29.366     | -88.821    | 97.6  | 275.0 | 10000         |
| 8                    | 19:02:50         | 29.361     | -91.894    | 103.1 | 278.8 | 263.05           | 19:07:51           | 29.359     | -91.909    | 103.1 | 278.8 | 1878          |
| 9                    | 19:10:11         | 29.472     | -92.469    | 104.7 | 279.7 | 98.35            | 19:32:52           | 29.470     | -92.452    | 104.7 | 279.8 | 8475          |
| 10                   | 19:37:12         | 29.563     | -89.179    | 110.4 | 283.6 | 267.54           | 20:03:58           | 29.563     | -89.194    | 110.4 | 283.6 | 10000         |
| 11                   | 20:03:58         | 29.563     | -92.293    | 116.0 | 287.5 | 270.18           | 20:08:15           | 29.563     | -92.309    | 116.0 | 287.6 | 1600          |
| 12                   | 20:08:30         | 29.556     | -92.828    | 116.9 | 288.3 | 253.41           | 20:10:53           | 29.552     | -92.842    | 117.0 | 288.3 | 889           |
| 13                   | 20:12:58         | 29.663     | -93.100    | 117.9 | 288.9 | 90.47            | 20:30:12           | 29.663     | -93.083    | 117.9 | 288.9 | 6440          |
| 14                   | 20:32:52         | 29.756     | -90.645    | 121.8 | 292.4 | 269.69           | 20:53:07           | 29.756     | -90.660    | 121.8 | 292.5 | 7565          |
| 15                   | 20:56:05         | 29.831     | -93.345    | 126.4 | 296.8 | 287.20           | 21:19:35           | 29.835     | -93.360    | 126.4 | 296.8 | 8778          |

NUMBER OF FILES FOR THIS FLIGHT = 15  
 TOTAL NUMBER OF SCAN LINES = 88138  
 DATE THESE FILES WERE PROCESSED = 01-Nov-2001  
 DATE THIS LIST WAS CREATED = Tue Nov 6 13:08:55 PST 2001  
 GRANULE VERSION = 1



FLIGHT 01-053

22 MARCH 2001

A/C 806

MAS50 / HR732 / VIS / SCANNING HIS

