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**National Aeronautics and Space Administration**

**Airborne Instrumentation Research Project**

**Flight Summary Report**

**Flight No.** 75-144

**Date** 14 August 1975

**FSR- 719**



**Data Research and Management Branch**

**Applications Division**

**Ames Research Center, Moffett Field, California**

**NASA / ARC**  
**Airborne Instrumentation Research Project**  
**FLIGHT SUMMARY REPORT**

**FSR: 719**

**Flight No:** 75-144

**Date:** 14 August 1975

**Aircraft No:** 5

**Julian Date:** 236

**Sensor Package:** A-4 Configuration

**Purpose of Flight:** #0432 Support  
Requestor: Bowden

**Area(s) Covered:** Southern California

**SENSOR DATA**

|                           |                                 |                                |
|---------------------------|---------------------------------|--------------------------------|
| <b>Accession No:</b>      | 02183                           | 02184                          |
| <b>Sensor ID No:</b>      | 009                             | 031                            |
| <b>Sensor Type:</b>       | HR-732                          | RC-10                          |
| <b>Lens Focal Length:</b> | 24"                             | 6"                             |
| <b>Film Type:</b>         | Aerochrome Infrared,<br>2443    | Aerochrome Infrared,<br>2443   |
| <b>Filtration:</b>        | WRATTEN 12 + CC .20B            | WRATTEN 12 + CC .10B<br>+ .10C |
| <b>Spectral Band:</b>     | 510-900nm                       | 510-900nm                      |
| <b>f Stop:</b>            | 9.0                             | 5.6                            |
| <b>Shutter Speed:</b>     | 1/250                           | 1/300                          |
| <b>No. of Frames:</b>     | 155                             | 46                             |
| <b>% Overlap:</b>         | 60                              | 60                             |
| <b>Quality:</b>           | Excellent                       | Excellent                      |
| <b>Remarks:</b>           | Soft focus around<br>frame edge |                                |

## **FLIGHT SUMMARY**

75-144

This flight was flown in support of Flight Request #0432 (Bowden, University of California, Riverside) under the CY 1975 Earth Observations Aircraft Program (EOAP) plan. Coverage was obtained over the southern California coastline between Santa Barbara and San Diego (see Track Map).

The majority of the test area was cloud-free except for some moderate cumulus between Point Mugu and Point Conception. The imagery has excellent color balance and exposure; however, the HR-732 (24" FL) has a soft focus around the frame edge due to a filter problem. Additionally, the clock within the data annotation chamber was set to GMT minus two hours. To obtain the correct GMT time, add two hours to the times listed (see Flight Line Data). No other camera or processing malfunctions were noted.

# FLIGHT LINE DATA

FLIGHT NO. 75-144

HR-732

| Check Points                            | Frame Numbers | **Time (GMT— hr, min, sec) |          | Altitude, MSL (feet) | Cloud Cover/Remarks                                  |
|---|---------------|----------------------------|----------|----------------------|--|
|   |               | START                      | END      |                      |  |
| a-b                                     | 0001-0036     | 17:46:42                   | 17:56:15 | 65,000               | Clear  |
| b-c                                     | 0037-0054     | 17:56:30                   | 18:00:46 | "                    | "  |
| c-d                                     | 0055-0081     | 18:01:01                   | 18:07:02 | "                    | "  |
| e-f                                     | 0082-0099     | 18:20:05                   | 18:25:06 | "                    | Very light cumulus, frs. 0096-0099                   |
| g-h                                     | 0100-0115     | 18:29:29                   | 18:33:01 | "                    | Very light cumulus, frs. 0101-0105                   |
| i-j                                     | 0116-0127     | 18:38:14                   | 18:40:47 | "                    | Heavy cumulus, frs. 0125-0127                        |
| k-l                                     | 0128-0135     | 18:43:54                   | 18:45:37 | "                    | Moderate to heavy cumulus along coastline            |
| l-m                                     | 0136-0155     | 18:46:17                   | 18:50:51 | "                    | Light to moderate cumulus, frs. 0136-0141, 0151-0155 |
| **ADD TWO HOURS TO OBTAIN CORRECT GMT** |               |                            |          |                      |  |
| a-b                                     | 6229-6238     | 19:47:26                   | 19:56:11 | 65,000               | Clear  |
| b-c                                     | 6239-6242     | 19:57:08                   | 20:00:05 | "                    | "  |
| c-d                                     | 6243-6251     | 20:01:03                   | 20:06:54 | "                    | "  |
| e-f                                     | 6252-6256     | 20:20:01                   | 20:23:52 | "                    | Very light cumulus, frs. 6255-6256                   |
| g-h                                     | 6257-6261     | 20:29:26                   | 20:32:57 | "                    | Very light cumulus, frs. 6257-6258                   |
| i-j                                     | 6262-6265     | 20:38:10                   | 20:40:42 | "                    | Heavy cumulus, frs. 6264-6265                        |
| k-l                                     | 6266-6268     | 20:43:50                   | 20:45:33 | "                    | Heavy cumulus along coastline                        |
| l-m                                     | 6269-6274     | 20:46:13                   | 20:50:44 | "                    | Light to heavy cumulus along coastline               |

RC-10

**JNC-43N**



**FLIGHT 75-144**

**14 AUGUST 1975**

**DATA RUN**

**A-4 CONFIGURATION**