Flight Number: 94-002-02
Calendar/Julian Date: 22 January 1994 • 022
Sensor Package: Zeiss Camera
NS001 Multispectral Scanner
Area(s) Covered: Southern California Earthquake Assessment

C-130
FLIGHT SUMMARY REPORT

Aircraft Data Facility
NASA-Ames Research Center
Mail Stop 240-6
Moffett Field, California 94035-1000
(415) 604-6252 • FTS 464-6252
FLIGHT SUMMARY REPORT

Flight Number: 94-002-02
Calendar/Julian Date: 22 January 1994 • 022
Sensor Package: Zeiss Camera
NS001 Multispectral Scanner
Area(s) Covered: Southern California Earthquake Assessment

Investigator(s): FEMA
Aircraft #: 707

SENSOR DATA

Accession #: 04689
Sensor ID #: 075
Sensor Type: Zeiss
NS001
Focal Length: 6" 153.16 mm
Film Type: Double X
Aerographic 2405
Filtration: Clear
Spectral Band: 400-700 nm
f Stop: Unknown
Shutter Speed: Unknown
# of Frames: 967
% Overlap: Variable
Quality: Excellent
Remarks: Intermittent mis-metering throughout data
NASA C-130 Earth Resources Aircraft Program

The NASA Earth Resources Aircraft Program at Ames Research Center operates a C-130B aircraft to acquire data for earth science research. The aircraft provides a platform for a variety of sensors that collect data in support of scientific projects sponsored by NASA, as well as federal, state, university, and industry investigators. These data are applied to research in the areas of forestry, agriculture, land use and land cover analysis, hydrology, geology, photogrammetry, oceanography, meteorology, and other earth resource disciplines. Data from operational sensors and newly developed or prototype instruments are used in applications programs examining agricultural biospheres, ozone depletion, tropical rain forest destruction, wildlife habitats, tropical disease vectors, forest wildfires, and geologic remote sensing.

The C-130B is a low and medium altitude, moderate speed aircraft. It is capable of flying up to 25,000 feet above sea level at speeds between 150 and 300 knots. The aircraft and its complement of onboard sensors provide a readily deployable remote sensing platform for support of scientific research throughout the coterminous United States, Alaska, and Hawaii. Additionally, the aircraft has been deployed in support of research in Australia, Bermuda, Puerto Rico, France, Germany, Austria, and Italy.

Photographic and digital imaging sensors are flown aboard the C-130 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 on the C-130. The following provides a description of the digital multispectral sensors used for data collection during this flight.

NS001 Multispectral Scanner

The NS001 Multispectral Scanner (MS) used on the C-130B aircraft contains the seven Landsat-D Thematic Mapper bands plus a band from 1.13 to 1.35 micrometers. The specific bands are as follows:

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<tr>
<th>Band</th>
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<td>10.9 - 12.3</td>
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Sensor specifications are as follows:

- IFOV: 2.5 mrad
- Ground Resolution: 25 feet (7.6 meters) at 10,000 feet
- Total Scan Angle: 100°
- Swath Width: 3.9 nmi (7.2 km) at 10,000 feet
- Pixels/Scan Line: 699

The format of the flight data consists of 838 eight-bit words per frame (data for one wavelength band throughout a scan line). Of these, 699 are the video information and the remainder are information on Greenwich time, scan line number, calibration lamp voltage and current, blackbody temperatures, etc.
Computer compatible tapes (CCTs) are produced from the flight tapes, and consist of header information followed by scanner video data.

**Zeiss Cameras:**

The C-130 may accommodate two Zeiss mapping cameras during any data flight. A combination of films and focal lengths may be employed depending on an investigator's requirements. Six and twelve inch focal lenses are available and are selected by investigators based on their resolution and scale requirements. The film emulsions available include color infrared, natural color, and black and white.

Additional information on data tape format, logical record format, and scanner calibration data may be obtained from the NASA-Ames Aircraft Data Facility, M.S. 240-6, Moffett Field, CA 94035-1000, Telephone (415) 604-6252.
## CAMERA FLIGHT LINE DATA
### FLIGHT NO. 94-002-02

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<th>Frame #</th>
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## CAMERA FLIGHT LINE DATA
### FLIGHT NO. 94-002-02

**Accession #** 04689  
**Sensor #** 075

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**CAMERA FLIGHT LINE DATA**

**FLIGHT NO. 94-002-02**

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**NOTE 1:** MSL IS MGL (RADAR ALTITUDE NOT PRESSURE)

**NOTE 2:** NO IMAGES ACQUIRED FOR FRAMES 0577-0581
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**NS001 CALIBRATION VALUES**  
**FLIGHT NO. 94-002-02**

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* This value varied excessively over the flightline.

1. FARE value in digital counts.  
2. CALIB in (Microwatts/square cm/Micron/steradian) per count.  
3. Word 19 of each scanline is CALIB times 100.
Endangered Species) nesting in the area in flight between the Sissuque and Sespe mountain. Please maintain 3000 ft terrain clearance for near the sanctuaries.
NOTICE TO PILOTS

Endangered Species - Soaring throughout adjacent mountain, please maintain 3000 ft. terrain clearance for or near the sanctuaries.

FLIGHT 94-002-02  22 JANUARY 1994  A/C 707  NS001 / ZEISS  TPC 9-18
NOTICE TO PILOTS

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