


MODIS AIRBORNE SIMULATOR

Field Experiment Data
SUCCESS Campaign

Flight #96-107

Sample Image

Click on image to load full resolution version

23 April 1996
Track #05



Flight Direction



"Wave cloud over Colorado"

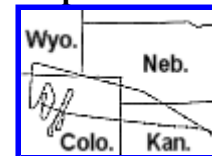
Click on image to load full resolution version

23 April 1996
Track #09

Summary Information

Date: April 23, 1996
 ER-2 Flight Number: 96-107
 Location: Oklahoma CART Site, Kansas
 Principle Investigator: Dr. Brian Toon (NASA Ames)
 Additional Sensors: B&W_6" _RC-10, MIR, CLS, RAMS, HIS, EOC

Flight Track Map



Click on map to load more detailed version

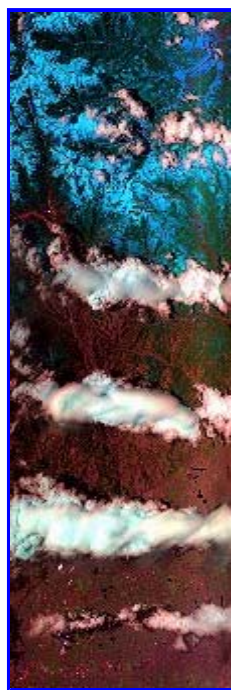
Level-1B Processing Information

Level-1B Data Version: #10
 Calibration Type: Final
 Calibration Version: SUCCESS_Ames 1.0
 Temperature Adjustment: No
 Status: Final Calibration Done

Level-1B Browse Imagery

Straight Line Flight Tracks: 12
 Scanlines Processed: 31575
[Solar Azimuth and Zenith Angles](#)

Browse Images							
<i>Click on the Flight Track number to load images.</i>							
<i>Lat/Lon ranges are for the BEG-END scanline nadir pixels.</i>							
Flight Track	Standard Image	Cirrus Image	Time Span (GMT)	Heading (Deg)	Lat Range (Deg_N)	Lon Range (Deg_W)	Length (Scanlines)
01	STD	CIR	18:27-18:42	282	41.06-41.45	104.03-106.37	5914
02	STD	CIR	18:45-18:58	180	41.31-39.85	106.58-106.60	4838
03	STD	CIR	19:00-19:02	37	39.79-40.00	106.39-106.20	817
04	STD	CIR	19:03-19:08	21	40.07-40.63	106.16-105.87	1968
05	STD	CIR	19:10-19:14	157	40.64-40.20	105.61-105.36	1595
06	STD	CIR	19:15-19:22	204	40.11-39.45	105.36-105.75	2428
07	STD	CIR	19:26-19:31	14	39.65-40.23	106.00-105.81	1911
08	STD	CIR	19:34-19:36	183	40.24-40.01	106.02-106.03	767
09	STD	CIR	19:37-19:44	109	39.91-39.68	105.94-104.97	2528
10	STD	CIR	19:45-19:49	194	39.55-39.07	104.88-105.03	1676
11	STD	CIR	19:52-20:04	26	39.14-40.36	105.25-104.46	4434



Flight Direction



"Roll clouds over Colorado"

R: 2.15 microns
G: 0.94 microns
B: 0.65 microns

12	STD	CIR	20:08- 20:15	203	40.41- 39.64	104.71- 105.11	2699
Standard Browse Images 01 through 12 in sequence							
Cirrus Detection Browse Images 01 through 12 in sequence							

Level-1B HDF Data Distribution Point

[NASA GSFC Earth Sciences \(GES\) Data Center](#)

[NASA DAAC's](#)

Additional Information

The objective of this mission was to observe wave clouds over the front range and contrails during overpass of the NOAA-14 satellite.

Take-off time was 1730 UTC and landing 2130 UTC. ER-2 flew to approximately 41:22N 106:19W and arrived at approximately 1839 UTC. Mission was to overfly mountain wave clouds and contrails in and out of the principal plane of the sun. Pilot was to visually locate the clouds. Coordinate flight track with ground track of the NOAA-14 satellite between 2031 and 2033 UTC. Track of satellite was approximately 40:36:20N 107:18:00W; 41:19.5N 107:34.8N; 41:59:51 107:48:00W; 42:39:09 108:00:00. The ER-2 aircraft flew parallel to NOAA-14 track while south of Denver.

The pilot reported the ER-2 flew over a long cirrus cloud that extended for about 100 miles downwind of Larimer. This cirrus appeared to be rolling and turbulent. Commercial aircraft reported wave clouds. Could visually see roll clouds out side cockpit window, but could not see them when over the clouds due to cirrus above of the wave clouds. No persistent contrails, ER-2 overflew some non persistent contrails. Flew south of Denver to get contrails and roll clouds. Flew satellite overpass while south of Denver.

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Another SUCCESS Flight?

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[#96-106](#) [#96-107](#) [#96-108](#) [#96-109](#) [#96-110](#) [#96-111](#)

[#96-112](#) [#96-113](#) [#96-114](#) [#96-115](#) [#96-116](#) [#96-117](#)