

FIRE II Cirrus

Mission Summary



Date: November 16, 1991
Julian Day: 320
Experiment Day: 4

[Summary](#) | [Active Sensors](#) | [Passive Sensors](#) | [Sonde and Sfc Met](#)

Mission Scientist: None
 Deputy Mission Scientist: None

Mission Objective:

No operations

Mission Description:

No operations

Weather Synopsis:

Saturday helped alleviate the drought conditions in southeastern Kansas. Coffeyville received almost 2 inches of rain over the course of the day. Moderate to heavy rain fell all day. Lightning and thunder reported during the evening. Winds were light and northeasterly. Temperatures reached the upper 50's by late afternoon.

Synoptic Situation:

The upper level cut-off low moved from Arizona to the western Kansas border during the day. Eastern Kansas, Oklahoma and Texas were very moist and unstable. Squall lines developed over Texas and Oklahoma during the day with a tornado reported near Houston Saturday night. Low and middle clouds dominated with high clouds from anvils skirting the southeastern Kansas at times. The upper level ridge moved over the Great Lakes region with strong westerly flow into the northern California coast.

Aircraft	Depart	Land	Notes
All Aircraft			No flights

Satellite	Hub Overpass Time	Zenith Angle	Azimuth Angle	RAOB
NOAA-11	21:26:18	48.37	261.06	yes
	09:50:47	8.15	282.42	yes
NOAA-12	15:08:48	56.72	290.94	yes
	00:48:53	51.64	69.50	yes

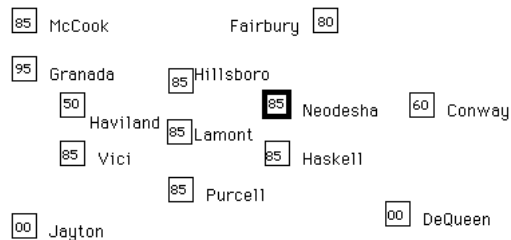
Rawinsonde Operations:

- Inner NWS stations (Type A): Routine @ 12 and 00 UTC
- Outer NWS stations (Type B): Routine @ 12 and 00 UTC
- Hub CLASS station: Satellite overpasses @ 15, 21, 01, 10 UTC
- Remote CLASS stations: None
- Hub GSFC/WFF station: None
- CSU Parsons station: None

FIRE Profiler Status:

- CSU 405 MHz @ Parsons Continuous operation (no RASS)
- PSU 50 MHz @ Coffeyville Continuous operation, very noisy
- NOAA 405 MHz @ Coffeyville Not operating (RASS only capability)

NWS Wind Profiler Status:



SPECTRE Operations:

None

Instrument Logs

Active Sensors

Active Sensor	UTC Hour																								Notes	
	12	13	14	15	16	17	18	19	20	21	22	23	00	01	02	03	04	05	06	07	08	09	10	11		
Utah Lidar H																										NOT OPERATIONAL
LaRC Laser Ceilometer H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Wisc HSR Lidar H																										TESTING
Wisc Vol Image Lidar																										NO OBSERVATIONS
GSFC RAMAN Lidar H																										NO OBSERVATIONS
NOAA CO2 Lidar H																										NO OBSERVATIONS
NOAA Radar H																										NO OBSERVATIONS
PSU Radar H																										NO OBSERVATIONS
PSU Laser Ceilometer H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PSU 50 MHZ Wind Prof H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PSU/NOAA 50 MHz RASS H																										NOT OPERATIONAL
NOAA 405 MHz RASS H																										NO OPERATIONAL
LaRC Lidar P																										NO OBSERVATIONS
CSU Wind Prof/RASS P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CSU Laser Ceilometer P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	WIND PROFILER ONLY

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Passive Sensors

Passive Sensor	UTC Hour																								Notes	
	12	13	14	15	16	17	18	19	20	21	22	23	00	01	02	03	04	05	06	07	08	09	10	11		
NOAA μ -wave Radiometer H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
NOAA Sun Photometer H																										NO OBSERVATIONS
NOAA H2O Photometer																										NOT OPERATIONAL
NOAA IR Flux Radiom. H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NO OBSERVATIONS
NOAA Dobson Ozone H																										NO OBSERVATIONS
NOAA Surface Ozone H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T= TOTAL OZONE
NOAA Trace Gas H																										NO OBSERVATIONS
PSU μ -wave Radiometer H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PSU Sun Photometer H																										NO OBSERVATIONS
PSU Solar Flux Radiom. H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PSU IR Flux Radiometers H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PSU Sky Video H																										NO OBSERVATIONS
Utah IR-Window Radiom. H																										NOT OPERATIONAL
Utah Sky Vvideo H																										NOT OPERATIONAL
LaRC Video H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
AFGL Sky Imager H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Ames Radiometer H																										TESTING MODE
Denver Solar Radiom. H																										NO OBSERVATIONS
Denver IR-Spectrometers H																										NO OBSERVATIONS
GSFC IR-Spectrometer H																										NO OBSERVATIONS
Wisc. IR-Spectrometer H																										NO OBSERVATIONS
MRI Sun Photometer H																										NO OBSERVATIONS
MRI IR Radiometer H									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MRI Spectro-Radiom. H																										NO OBSERVATIONS
MRI Solar Flux Radiom. H									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
GSFC Photometer H																										NOT OPERATIONAL
CSU Sun Photometer P																										NOT OPERATIONAL
CSU IR-Window Radiom. P																										NO OBSERVATIONS
CSU Solar Flux Radiom. P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CSU IR Flux Radiometers P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CSU IR-Spectrometer P																										NO OBSERVATIONS
CSU Sky Video P																										NO OBSERVATIONS

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Sondes and Surface Meteorology

Sondes + Sfc Met Sensor	UTC Hour																								Notes	
	12	13	14	15	16	17	18	19	20	21	22	23	00	01	02	03	04	05	06	07	08	09	10	11		

