



# **VORTEX-2 FIELD CATALOG AND DATA ARCHIVE**

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**NCAR Earth Observing Laboratory**

**Boulder, Colorado**

**VORTEX-2 Planning Meeting**

**Boulder, CO**

**23-24 February 2009**



NCAR



# EOL DATA SERVICES

- Data Questionnaire
- Data Management Plans
- Real-time Data Ingest
- **Field Operations Catalog** and Mapserver
- Data Processing
- **Interactive Data Archive and Distribution (EMDAC)**
- Web Services and Mailing Lists
- Special Media Products and Services





# EOL FIELD CATALOG TOOL

<http://catalog.eol.ucar.edu/>

*In-field tool to ingest and display operational and preliminary research products and project documentation for making real-time decisions and evaluating project progress*

## Features:

- Daily Mission Reports
- Operations Summary
- Facility Status Reports
- Data Analysis Products
- Authoring Tools
- Web-based access

Megacity Initiative: Local and Global Research Observations  
**MILAGRO Field Catalog**  
 Mexico City, DF March 2006

[Catalog Home](#) | [Daily Reports](#) | [Operational Products](#) | [Model/Forecast Products](#) | [Research Products](#) | [Missions](#) | [Tools & Links](#)

(The following listing is auto generated. Click reload/refresh often to see new products.)

Available Model Products for 2006/03/15 UTC

[Previous Date\(UTC\)](#) | [Choose Date\(UTC\)](#) | [Next Date\(UTC\)](#)

FLEXPART Forecast Products

Forecast Times(UTC)	15 Mar 2006				16 Mar 2006				17 Mar 2006				18 Mar 2006				19 Mar 2006				20 Mar 2006																							
	03	06	09	12	15	18	21	00	03	06	09	12	15	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06												
FLEXPART - Analysis and Forecast from 2006/03/15 12:00 UTC																																												
300_MC_CO2_Height					003r	006r	009r	012r	015r	018r	021r	024r	027r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP
500_MC_CO2_Height					003r	006r	009r	012r	015r	018r	021r	024r	027r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP
700_MC_CO2_Height					003r	006r	009r	012r	015r	018r	021r	024r	027r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP
Total_Column_CO					003r	006r	009r	012r	015r	018r	021r	024r	027r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP
FLEXPART - Analysis and Forecast from 2006/03/15 06:00 UTC																																												
300_MC_CO2_Height					003r	006r	009r	012r	015r	018r	021r	024r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP	
500_MC_CO2_Height					003r	006r	009r	012r	015r	018r	021r	024r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP	
700_MC_CO2_Height					003r	006r	009r	012r	015r	018r	021r	024r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP	
Total_Column_CO					003r	006r	009r	012r	015r	018r	021r	024r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP	
FLEXPART - Analysis and Forecast from 2006/03/15 00:00 UTC																																												
300_MC_CO2_Height	003r	006r	009r	012r	015r	018r	021r	024r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP					
500_MC_CO2_Height	003r	006r	009r	012r	015r	018r	021r	024r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP					
700_MC_CO2_Height	003r	006r	009r	012r	015r	018r	021r	024r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP					
Total_Column_CO	003r	006r	009r	012r	015r	018r	021r	024r	030r	033r	036r	040r	043r	046r	049r	052r	055r	058r	061r	065r	068r	072r	075r	078r	081r	084r	087r	090r	093r	096r	099r	102r	105r	108r	111r	114r	117r	120r	SP					

GFS Forecast Products

Forecast Times(UTC)	15 Mar 2006				16 Mar 2006				17 Mar 2006				18 Mar 2006					
	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18		
GFS - Analysis and Forecast from 2006/03/15 12:00 UTC																		
000_MSLP_500_Heights					000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP
000_MSLP_Winds					000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP
000_Precip_6h					000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP
000_Precipitable_Water					000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP
000_Temperature					000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP
500_Heights_Winds					000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP
700_Heights_Winds					000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP
850_Heights_Winds					000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP
GFS - Analysis and Forecast from 2006/03/15 00:00 UTC																		
000_MSLP_500_Heights	000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP				
000_MSLP_Winds	000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP				
000_Precip_6h	000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP				
000_Precipitable_Water	000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP				
000_Temperature	000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP				
500_Heights_Winds	000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP				
700_Heights_Winds	000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP				
850_Heights_Winds	000r	006r	012r	018r	024r	030r	036r	042r	048r	054r	060r	066r	072r	SP				
Forecast Times(UTC)	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18		
	15 Mar 2006	15 Mar 2006	16 Mar 2006	16 Mar 2006	17 Mar 2006	17 Mar 2006	18 Mar 2006	18 Mar 2006										



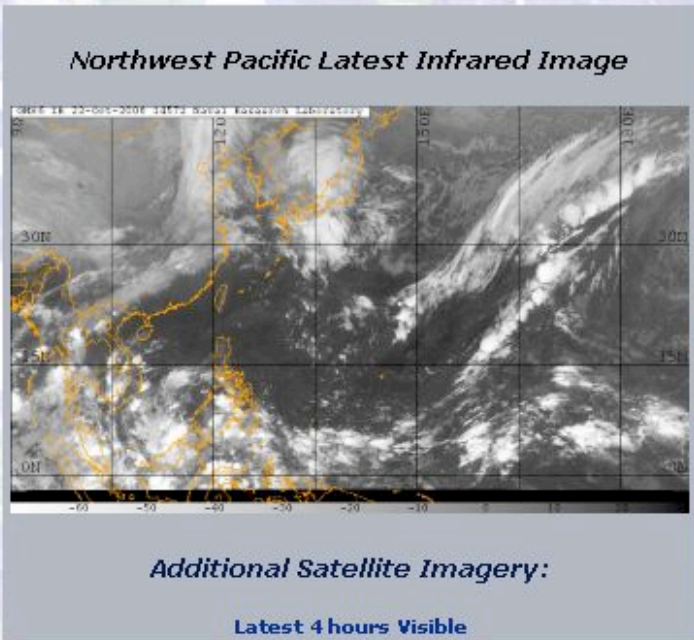
# TPARC/TCS-08 Field Catalog

2008 Field Season

- Catalog Home
- Daily Reports
- Operational Products
- Model/Forecast Products
- Research Products
- Missions
- Tools & Links

UTC: Tues, Feb 24, 5:13 Z	Guam: Tues, Feb 24, 3:13 PM	Tokyo: Tues, Feb 24, 2:13 PM
Boulder: Mon, Feb 23, 11:13 PM	Monterey: Mon, Feb 23, 10:13 PM	Taipei: Tues, Feb 24, 1:13 PM
	Hawaii: Mon, Feb 23, 7:13 PM	

- Quick Links:**
- Facilities Status
  - Operations Plan of the Day
  - TPARC Weather Discussion
  - Real-Time P3 Flight Track (kml)
  - Real-Time C-130 Flight Track (kml)
  - Real-Time MTSAT Vis/IR Imagery (kml)
  - Real-Time Driftsonde Track (kml)
  - (Download kmIs first then open in GoogleEarth)
  - NPS Weather Briefing Website
  - Elluminate Meetings



- Information Links:**
- JTWC Website
  - Honolulu Weather
  - Guam Weather
  - Okinawa Weather
  - Monterey Operations Center (831) 656-3569
  - Guam Aircraft Coordination Center (671) 653-0235
  - Comments

# BAMEX Field Catalog



## Field Documentation

*Operations Summary*

*Instrument / Facility Status*

*Forecast Briefing*

*Mission Summary*

*Scientist Summary*

Date(UTC)	CSU Forecast Discussion	GBOS Mission Summary	MIPS summary	NOAA P-3 mission summary	NRL P-3 mission summary	SPC Forecast Discussion	WRF Forecast Discussion	aircraft alert	facilities status summary	learjet mission summary	ops plan of the day	science director summary	weather NOWCAST	weather summary
2003/06/30	<a href="#">13:00</a>			<a href="#">00:47</a>		<a href="#">15:28</a>			<a href="#">18:09</a>		<a href="#">20:07</a>		<a href="#">00:42 02:05</a> <a href="#">03:15 20:45</a>	<a href="#">21:06</a>
2003/06/29	<a href="#">13:00</a>			<a href="#">01:48</a>	<a href="#">00:15</a>		<a href="#">17:06</a>		<a href="#">21:36</a>	<a href="#">18:37</a>	<a href="#">21:25</a>	<a href="#">00:30</a> <a href="#">18:00</a>	<a href="#">00:21 01:22</a> <a href="#">03:45 04:55</a> <a href="#">06:12 07:50</a> <a href="#">08:07 15:17</a> <a href="#">20:17 23:25</a>	<a href="#">21:33</a>
2003/06/28	<a href="#">13:00</a>	<a href="#">18:00</a>					<a href="#">17:12</a>	<a href="#">21:37</a>			<a href="#">20:18</a>		<a href="#">21:06</a>	<a href="#">21:53</a>
2003/06/27	<a href="#">13:00</a>					<a href="#">16:57</a>		<a href="#">21:02</a>	<a href="#">18:25</a>		<a href="#">18:34</a>			<a href="#">19:55</a>
2003/06/26	<a href="#">13:00</a>					<a href="#">16:13</a>			<a href="#">19:18</a>		<a href="#">17:54</a>		<a href="#">00:33 01:05</a> <a href="#">01:54 03:15</a> <a href="#">03:24</a>	<a href="#">21:06</a>
2003/06/25	<a href="#">13:00</a>	<a href="#">13:00</a>		<a href="#">21:45</a>	<a href="#">21:12</a>	<a href="#">15:19</a>	<a href="#">20:43</a>		<a href="#">20:28</a>	<a href="#">23:06</a>	<a href="#">18:12</a>	<a href="#">21:00</a>	<a href="#">00:47 20:01</a> <a href="#">22:04</a>	<a href="#">18:47</a>
2003/06/24	<a href="#">13:00</a>			<a href="#">02:41</a>	<a href="#">02:49</a>	<a href="#">15:46</a>	<a href="#">22:53</a>	<a href="#">18:53</a>	<a href="#">19:10</a>	<a href="#">02:29</a>	<a href="#">21:14</a>	<a href="#">00:00</a>	<a href="#">00:57 02:14</a> <a href="#">03:38 04:53</a> <a href="#">06:20 07:44</a> <a href="#">21:02 21:58</a> <a href="#">23:05</a>	<a href="#">22:25</a>
2003/06/23	<a href="#">13:00</a>	<a href="#">16:30</a>	<a href="#">23:59</a>	<a href="#">01:19</a>	<a href="#">00:21</a>	<a href="#">16:54</a>	<a href="#">22:18</a>		<a href="#">20:44</a>	<a href="#">01:00</a>	<a href="#">20:10</a>	<a href="#">00:25</a>	<a href="#">00:43 02:40</a> <a href="#">03:19 05:14</a> <a href="#">06:24 23:02</a>	<a href="#">21:56</a>
2003/06/22	<a href="#">13:00</a>	<a href="#">23:00</a>	<a href="#">23:59</a>	<a href="#">00:45</a>	<a href="#">00:15</a>		<a href="#">22:19</a>	<a href="#">20:25</a>	<a href="#">16:20</a>	<a href="#">00:55</a>	<a href="#">19:48</a>	<a href="#">00:30</a>	<a href="#">00:45 02:05</a> <a href="#">03:48 05:12</a> <a href="#">20:54 22:58</a>	<a href="#">22:06</a>



# BAMEX Facilities Status Summary Report

Date of report(UTC): 2003/05/27 16:00

Author of report: Brigitte Baeuerle

Submitted at(UTC): 2003/05/27 16:01

## OVERVIEW:

## FACILITY/PROJECT STATUS

■ = up; ■ = provisional; ■ = down ; ■ = no report

<span style="color: green;">1</span>	<b>NRL P-3</b> (Remaining flight hrs: 130.6)	<b>Comment:</b> APU broken
<span style="color: green;">a</span>	ELDORA Radar	<b>Comment:</b>
<span style="color: green;">b</span>	Radar Mosaic Display	<b>Comment:</b>
<span style="color: green;">c</span>	Navigation, State Parameters	<b>Comment:</b>
<span style="color: green;">d</span>	Data System	<b>Comment:</b>
<span style="color: yellow;">e</span>	Sat. Communications	<b>Comment:</b> WSI/Iridium interference
<span style="color: green;">2</span>	<b>NOAA P-3</b> (Remaining flight hrs: 131.7)	<b>Comment:</b>
<span style="color: green;">a</span>	Lower Fuselage Radar	<b>Comment:</b>
<span style="color: green;">b</span>	Doppler Radar	<b>Comment:</b>
<span style="color: green;">c</span>	Navigation, State Parameters	<b>Comment:</b>
<span style="color: green;">d</span>	Data System	<b>Comment:</b>
<span style="color: green;">e</span>	Sat. Communications	<b>Comment:</b>
<span style="color: green;">3</span>	<b>WMI Learjet</b> (Remaining flight hrs: 88.7)	<b>Comment:</b>
<span style="color: green;">a</span>	Drosondes	<b>Comment:</b>
<span style="color: green;">b</span>	Data System	<b>Comment:</b>
<span style="color: green;">c</span>	Sat. Communications	<b>Comment:</b>
<span style="color: green;">4</span>	<b>GBOS</b>	<b>Comment:</b>
<span style="color: green;">a</span>	Mobile Probe	<b>Comment:</b>
<span style="color: green;">b</span>	NCAR MGLASS	<b>Comment:</b>
<span style="color: green;">c</span>	UAH MIPS	<b>Comment:</b>



## Mission Scientist Report, RICO, RF15 January 16th, 2005

C130Q Flight Scientist/Observer: Stevens/Ochs



Figure 1: Images showing cloud field during flight.

**General cloud characteristics:** The clouds sampled during the line segment of the flight were initially thought to be in the outflow of a region of more organized, deeper convection. Our targets consisted of several convective cells which grew substantially during the period of flight operations, eventually reaching depths of 15000'. Based on the radar imagery (Fig. 3), the "line" might be better interpreted as the stronger, eastern, flank of meso-cell of approximately 60 km in diameter. Later we sampled another ring, or rings of growing convection with tops nearer 6000 ft, sampling many rainshafts, and convective cells at a variety of levels, these were more apparently annular while flying. Both the deeper cells sampled early and the later cells sampled late were not unlike other forms of convection encountered during RICO. Cloud droplet concentrations during the flight were low, typically around  $100 \text{ cm}^{-3}$  or a bit less. The latter cells provided many opportunities to work rainshafts near the radar, thus providing calibration for  $Z - R$  relationships during RICO.



# RICO Operations Plan of the Day Form

For use by authorized users only please.

Date of report(UTC): year: 2005 month: 02 day: 05 hour: 22 min: 03

Author of report: Jim Moore Password:

Preserve the format of the text being entered below?: no

## OPERATIONS SUMMARY:

## SCIENTIFIC OBJECTIVE(S):

## MISSION PLANS:

### PRIMARY MISSION:





# BAMEX Field Catalog



## Browse by Date:

UTC  CDT

May 2003							June 2003							July 2003						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3		1	2	3	4	5	6	7		1	2	3	4	5	
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30						27	28	29	30	31		

## Browse by Operational Products:

### Satellite Products

- GOES  Latest
- goes-12  Latest
- noaa-12  Latest
- noaa-14  Latest
- noaa-15  Latest
- noaa-16  Latest
- noaa-17  Latest

### Surface Products

- ARM\_SMOS  Latest
- Inwa\_mesonet  Latest

# BAMEX Field Catalog



## Operational Products Display

*Satellite*

*Surface*

*Profilers*

*Upper-Air Soundings*

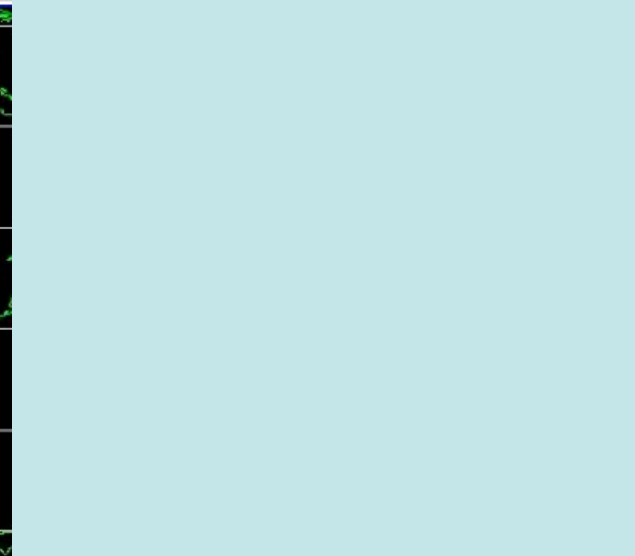
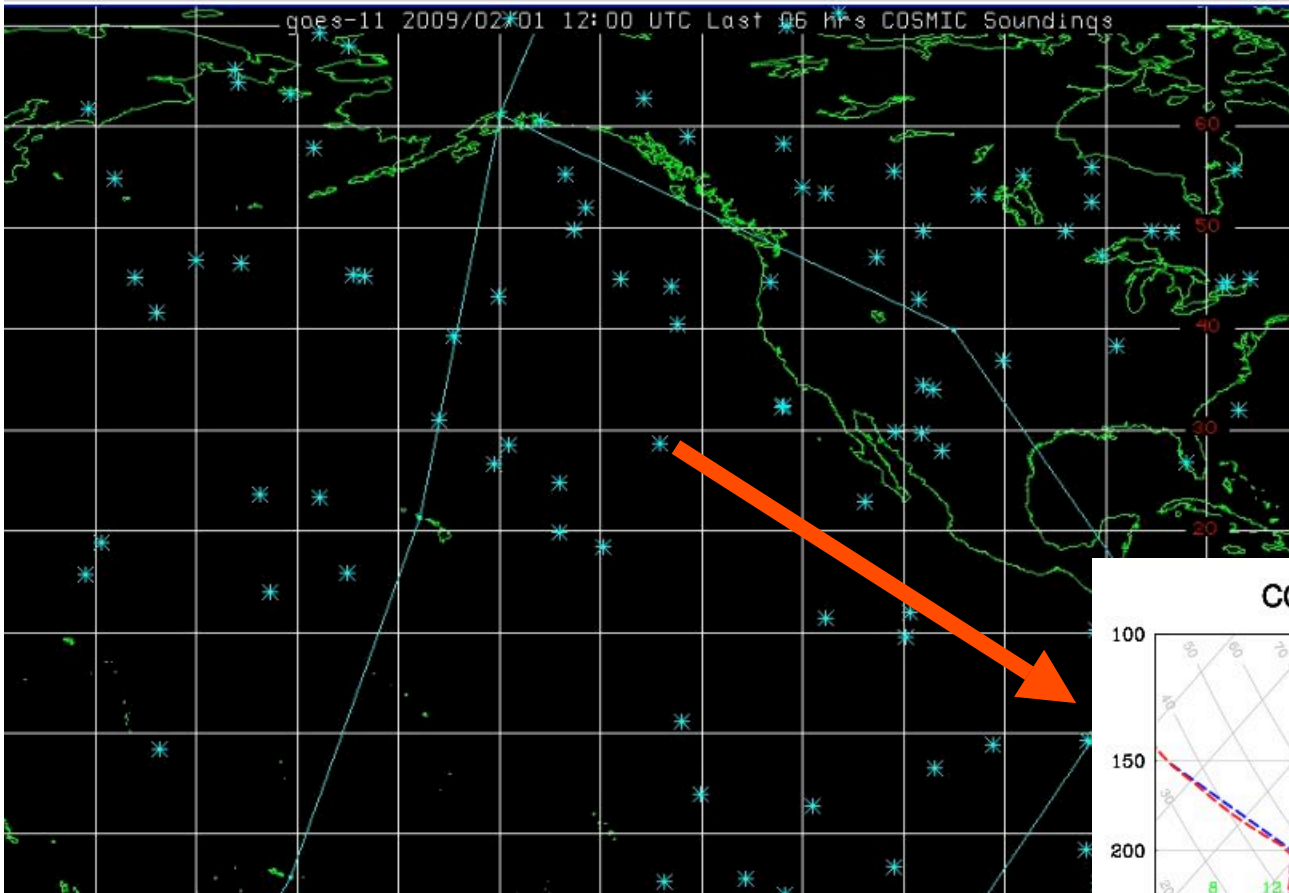
*Radar Products*

*Composite Products*

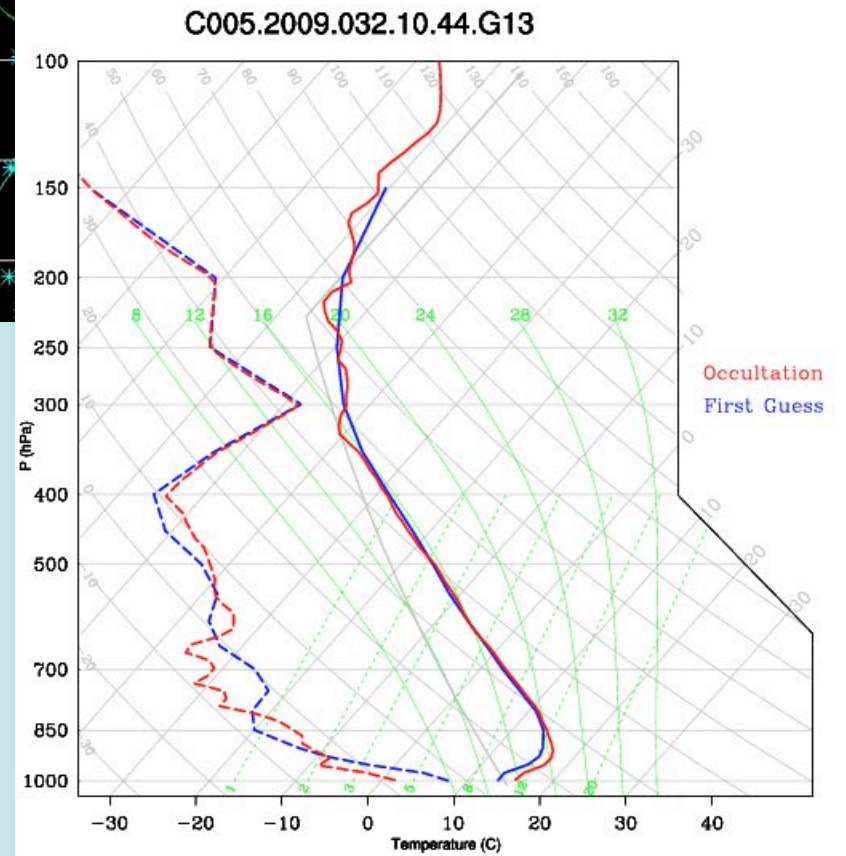
*Interactive Maps*

		Satellite Products																											
		18 Jun 2003																											
Product Times(UTC)		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
GOES (CIMSS Derived Product Imagery, NESDIS Derived Product Imagery)																													
CAPE		0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200		☼			
LI		0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	☼			
PWV		0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	☼			
goes-12 (NESDIS GOES Soundings)																													
2km_ch1_vis		0008 0039 0055	0109 0125 0155	0209 0225 0239	0309							0909 0955	1009 1025 1055	1109 1125 1155	1209 1239 1253	1309 1325 1355	1409 1425 1439	1509 1525 1555	1609 1625 1655	1709 1725 1739	1809 1839 1855	1909 1925 1955	2009 2025 2039	2109 2125 2155	2209 2225 2255	2309 2325 2339	☼		
conus_4km_ch1_vis		0008 0039 0055	0109 0125 0139	0209 0225 0239	0309 0325 0339	0409 0425 0439	0509					0909 0955	1009 1025 1055	1109 1125 1139	1209 1239 1253	1309 1325 1339	1409 1425 1439	1509 1525 1539	1609 1625 1639	1709 1725 1739	1809 1839 1855	1909 1925 1939	2009 2025 2039	2109 2125 2155	2209 2225 2255	2309 2325 2339	☼		
conus_4km_ch2_near-IR		0008 0039 0055	0109 0125 0139	0209 0225 0239	0309 0325 0339	0409 0425 0439	0509 0525 0539	0609 0625 0639	0709 0725 0739	0809 0825 0839	0909 0925 0939	1009 1025 1039	1109 1125 1139	1209 1239 1253	1309 1325 1339	1409 1425 1439	1509 1525 1539	1609 1625 1639	1709 1725 1739	1809 1839 1855	1909 1925 1939	2009 2025 2039	2109 2125 2155	2209 2225 2255	2309 2325 2339	☼			
conus_4km_ch3_water_vapor		0008 0039 0055	0109 0125 0139	0209 0225 0239	0309 0325 0339	0409 0425 0439	0509 0525 0539	0609 0625 0639	0709 0725 0739	0809 0825 0839	0909 0925 0939	1009 1025 1039	1109 1125 1139	1209 1239 1253	1309 1325 1339	1409 1425 1439	1509 1525 1539	1609 1625 1639	1709 1725 1739	1809 1839 1855	1909 1925 1939	2009 2025 2039	2109 2125 2155	2209 2225 2255	2309 2325 2339	☼			
conus_4km_ch4_thermal-IR		0008 0039 0055	0109 0125 0139	0209 0225 0239	0309 0325 0339	0409 0425 0439	0509 0525 0539	0609 0625 0639	0709 0725 0739	0809 0825 0839	0909 0925 0939	1009 1025 1039	1109 1125 1139	1209 1239 1253	1309 1325 1339	1409 1425 1439	1509 1525 1539	1609 1625 1639	1709 1725 1739	1809 1839 1855	1909 1925 1939	2009 2025 2039	2109 2125 2155	2209 2225 2255	2309 2325 2339	☼			
conus_4km_ch6_thermal-IR		0008 0039 0055	0109 0125 0139	0209 0225 0239	0309 0325 0339	0409 0425 0439	0509 0525 0539	0609 0625 0639	0709 0725 0739	0809 0825 0839	0909 0925 0939	1009 1025 1039	1109 1125 1139	1209 1239 1253	1309 1325 1339	1409 1425 1439	1509 1525 1539	1609 1625 1639	1709 1725 1739	1809 1839 1855	1909 1925 1939	2009 2025 2039	2109 2125 2155	2209 2225 2255	2309 2325 2339	☼			
noaa-12																													
01km_ch1_vis													1013	1154												2132	2313	☼	
01km_ch2_near-IR													1013	1154												2132	2313	☼	
01km_ch3_near-IR													1013	1154												2132	2313	☼	
01km_ch4_thermal-IR													1013	1154												2132	2313	☼	
noaa-14																													
01km_ch1_vis														1153														2317	☼
01km_ch2_near-IR														1153														2317	☼
01km_ch3_near-IR														1153														2317	☼
01km_ch4_thermal-IR														1153														2317	☼
noaa-15																													
01km_ch1_vis		0050												1122	1300	1441												2241	☼
01km_ch2_near-IR		0050												1122	1300	1441												2241	☼





# FIELD CATALOG SOUNDING INTERACTIVE MAP FEATURE



# BAMEX Field Catalog



## WRF Forecast Products

Forecast	18 Jun 2003																							19 Jun 2003											20 Jun 2003							
Times(UTC)	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	00	01	02	03	04	05	06	07	08	09	10	11	12	15	18	21	00	
<b>WRF_10km - Analysis and Forecast from 2003/06/18 00:00 UTC (NCAR/MMM Real-time MM5)</b>																																										
0-3km_shear	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
300mb	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
500mb	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
700mb	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
850mb	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
CAPE	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
CIN	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
precip	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
reflectivity	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
sfc_dew	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
sfc_temp	00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr			27hr			30hr			33hr			36hr			☺		
<b>WRF_10km - Analysis and Forecast from 2003/06/18 12:00 UTC (NCAR/MMM Real-time MM5)</b>																																										
0-3km_shear													00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺
300mb												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
500mb												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
700mb												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
850mb												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
CAPE												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
CIN												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
precip												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
reflectivity												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
sfc_dew												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
sfc_temp												00hr			03hr			06hr			09hr			12hr			15hr			18hr			21hr			24hr	27hr	30hr	33hr	36hr	☺	
<b>WRF_4km - Analysis and Forecast from 2003/06/18 00:00 UTC (NCAR/MMM Real-time MM5)</b>																																										
0-3km_shear	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr			☺		
300mb	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr			☺		
500mb	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr			☺		
700mb	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr			☺		
850mb	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr			☺		
CAPE	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr			☺		
CIN	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr			☺		
precip	00hr	01hr	02hr	03hr	04hr	05hr	06hr	07hr	08hr	09hr	10hr	11hr	12hr	13hr	14hr	15hr	16hr	17hr	18hr	19hr	20hr	21hr	22hr	23hr	24hr	25hr	26hr	27hr	28hr	29hr	30hr	31hr	32hr	33hr	34hr	35hr	36hr			☺		

# BAMEX Field Catalog



## Browse by Research Products:

### Aircraft Products

Aircraft chat\_log\_P3 Latest Start Date End Date Get Data

NOAA\_P-3 Chief\_Sci\_Event-Radar\_Log Latest Start Date End Date Get Data

NRL\_P-3 ALT\_ATX\_DPXC Latest Start Date End Date Get Data

WMI\_Lear\_Jet QC\_SkewT Latest Start Date End Date Get Data

### MIPS Products

MIPS 915snr Latest Start Date End Date Get Data

### Surface Products

none found

### Upper Air Products

mobile\_GLASS1 SkewT Latest Start Date End Date Get Data

mobile\_GLASS2 SkewT Latest Start Date End Date Get Data

mobile\_GLASS3 SkewT Latest Start Date End Date Get Data

# BAMEx Field Catalog



## BAMEx Mission Table

Date	Mission	Begin (UTC)	End (UTC)	Location/Mission Map	Catalog Products	Facilities	Notes
20 May	<a href="#">Sounding Intercomparison</a>	1950	2152	Carlyle Lake, IL	<a href="#">Operational Research Model</a>	WMI Learjet GBOS	A comparison between MIPS, dropsondes and MGLASS in essentially clear air. Two GLASS soundings were launched. The Lear did 3 drops
22 May	<a href="#">Aircraft Intercomparison</a>	2000	2200	<a href="#">Southern Illinois</a>	<a href="#">Operational Research Model</a>	NOAA P-3 NRL P-3 WMI Learjet	The intercomparison involved a set of pre-determined maneuvers roughly 15 min. northeast of MAA. These lasted for about 1 hour. The planes then broke formation to do testing of individual components of each aircraft. No clouds were available to test microphysical probes.
23 May	<b>GBOS 1 MCS</b>	1600	2200	Enid, OK	<a href="#">Operational Research Model</a>	<a href="#">GBOS</a>	Forecast was for MCS to develop in western KS and move through western OK. Later observations indicated conditions were less favorable for an MCS in the region until much later that night. The mission was called off.
24-25 May	<a href="#">IOP 1 Mature MCV</a>	1300	0130	<a href="#">Northern Arkansas</a>	<a href="#">Operational Research Model</a>	<a href="#">NOAA P-3</a> <a href="#">NRL P-3</a> <a href="#">WMI Learjet</a> <a href="#">GBOS</a>	Rationale for mission plan: early t/o based on expectation that nocturnal system would form and persist into daytime, retriggering severe convection in the early afternoon. Convection did not develop on the Red River until early evening, and never organized into a well-defined MCS within the BAMEx domain. The target remained the MCV throughout the mission. The MCV grew out of nocturnal convection in Nebraska and Kansas, forming from a series of line end vortices that "pooled" into a broader MCV over northeastern Oklahoma.
28-29 May	<a href="#">IOP 2 Bow Echo/MCS</a>	1400	0130	<a href="#">Central Illinois</a>	<a href="#">Operational Research Model</a>	<a href="#">NOAA P-3</a> <a href="#">NRL P-3</a> <a href="#">WMI Learjet</a> <a href="#">GBOS</a>	There were two modes of organized convection. The first was a bow-shaped MCS forming in southern Wisconsin on the cyclonic shear side of a strong jet at 500 mb. This system moved south-southeastward and produced damaging winds near Chicago. A second system over Illinois began as a supercell storm around 1900 UTC, produced a tornado and some large hail. The system was embedded within much stronger vertical shear than the Chicago MCS. Precipitation fell on the downshear side, leading to a perception of a "leading stratiform" region. The system organized further but did not become a bow echo.
30-31 May	<a href="#">IOP 3 Supercell MCS</a>	2300	0700	<a href="#">Eastern Illinois/Indiana</a>	<a href="#">Operational Research Model</a>	<a href="#">NOAA P-3</a> <a href="#">NRL P-3</a> <a href="#">WMI Learjet</a> <a href="#">GBOS</a>	Line of supercells developed ahead of strong cold front in southern Wisconsin and moved into northern/central Illinois and Indiana in an environment of strong shear and marginal CAPE. The line never developed a trailing stratiform region, rather there was a stratiform region ahead of the line of supercells.
2-3 June	<a href="#">IOP 4 MCV/MCS mini-bow</a>	1320	0130	<a href="#">Northwest MO (MCV)</a> <a href="#">Eastern AR and Northern MS (MCS)</a>	<a href="#">Operational Research Model</a>	<a href="#">WMI Learjet (MCV)</a> <a href="#">NOAA P-3 (MCS)</a> <a href="#">NRL P-3 (MCS)</a> <a href="#">WMI Learjet (MCS)</a> <a href="#">GBOS (MCS)</a>	The first part of IOP4 focused on the dynamics of a remnant MCV over northwest MO. The second part of the IOP focused on the upscale growth process of an MCS over AR and the rapid appearance of small-scale (30 km) bowed segments within the line.
5-6 June	<a href="#">IOP 5 MCV</a>	1700	0400	<a href="#">Northeast TX</a>	<a href="#">Operational Research Model</a>	<a href="#">NOAA P-3</a> <a href="#">WMI Learjet</a> <a href="#">GBOS</a>	IOP5 was centered around an apparent remnant MCV from an overnight convective system in Texas, and the possibility of retriggering by that MCV during the afternoon and evening hours.
7-8 June	<a href="#">IOP 6</a>				<a href="#">Operational</a>		MGLASS1 northeast of Seymour, TX; MIPS east of Haskell, TX; and MGLASS2 in Anson, TX. Data collection by the MIPS ended at approximately 0800 UTC. An MCS was beginning to form in the GBOS



## Catalog Tools

[Report Generation Forms](#)

*(password needed to submit)*

- [Upload documents and images](#)

*(password needed to submit)*

## Project Information

- [Arica LAN information](#)
- [Group Photo](#)
- [VOCALS educational short talks \(page 3\)](#)
- [VOCALS All-Hands Science Meeting](#)

## Contact Information

- [Arica Operations Center Staff](#)
- [VOCALS \(Arica\) Participants Listing](#)
- [VOCALS-Field \(Arica\) Mail List](#)

## Catalog Information

- [Catalog User Guide](#)

## Chat Information

- [X-Chat instant access](#)
- [Chat Room Guidelines](#)
- [Chat Client Configuration Instructions](#)
- [Primer-Everything you need to know about CHAT](#)

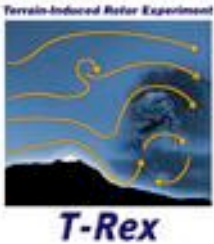
## Additional Data Sources

- [VOCALS Data Archive Master List](#)
- [FLEXPART Interactive Model from NOAA ESRL](#)
- [Oregon State VOCALS Satellite Products](#)
- [PMEL website for Ron Brown Underway data](#)
- [VOCALS-Rex Peru Website with Jose Olaya information](#)
- [MODIS subset for VOCALS](#)
- [HRDL Lidar Data from VOCALS](#)
- [DoE-G1 Data](#)
- [Unisys Weather](#)
- [Ron Brown Data Perusal \(NCSU\)](#)

## Geospatial data

Download (*Save As...*) KML first then open in e.g. GoogleEarth

- [Real-Time VOCALS kml](#)
- [Ops center kml](#)- use this from the VOCALS operations center network
- GOES-10 georeferences:  
1km images (ch1\_vis, ch2\_irs, ch3\_water\_vapor, ch4\_2\_diff, ch4\_thermal-IR):  
Northern: -9.245, Southern: -30.791,  
Western: -101.187, Eastern: -68.777  
4km image (ch1\_vis\_big)  
Northern: -14.036, Southern: -26.631,  
Western: -85.577, Eastern: -67.586
- [RV Ron Brown kml for last 12 hours](#)



<http://catalog.eol.ucar.edu/trex/>

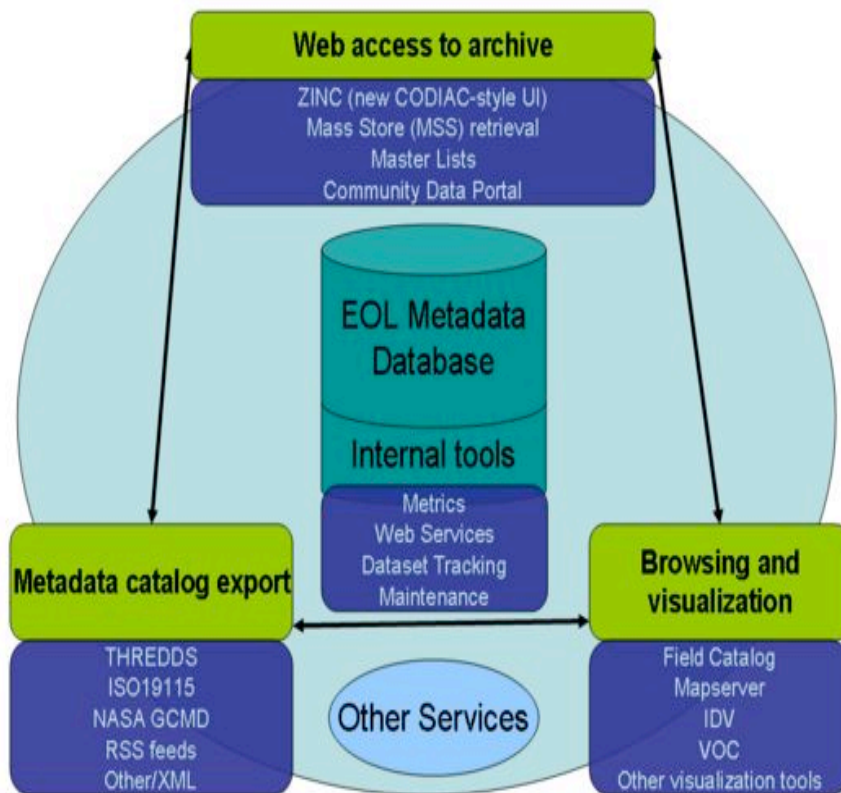
- **Reports/Summaries (Status, Mission, and Operations)**  
**340 documents and 1555 image files (0.26 GB)**
- **Research Platform Products (Aircraft, Surface, Lidar, Upper Air)**  
**124,150 image files (8.01 GB)**
- **Operational Products (Satellite, Surface, Radar, Upper Air)**  
**85,357 image files (7.81 GB)**
- **Model Output Imagery (Analysis and Forecast Fields)**  
**143,252 image files (10.22 GB)**
  
- **TOTALS: 354,654 Files (26.30 GB)**





# EOL DATA MANAGEMENT

EOL Metadata Database and Cyberinfrastructure (EMDAC)



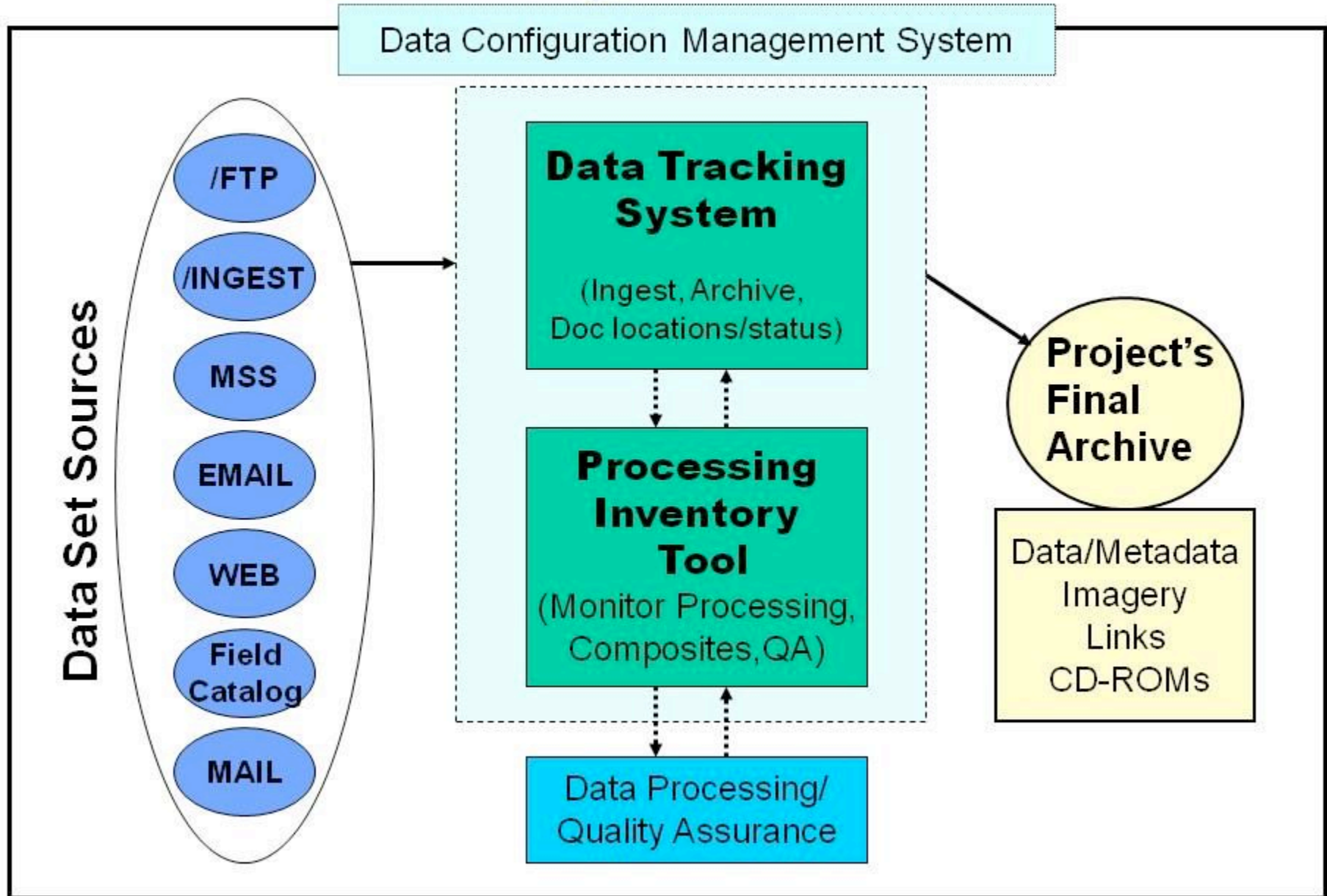
## EOL Data System (EMDAC)

*Primary means for all project scientists and researchers to browse and retrieve data from any EOL-supported projects*

### Features:

- Long-term field project data archival and distribution
- Interactive data browsing, subsetting, and format translation
- Web-based access
- Value-added datasets
- Data documentation

# Data Flow – Ingest to Final Archive



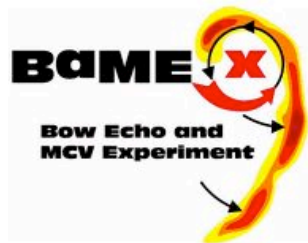
# “Composite” Data Sets at NCAR/EOL

A **composite dataset** is a collection (over some time period and region) of similar data (e.g. surface meteorological) from a variety of sources, put into a common format, and passed through a uniform quality control.

Why does NCAR/EOL develop composites?

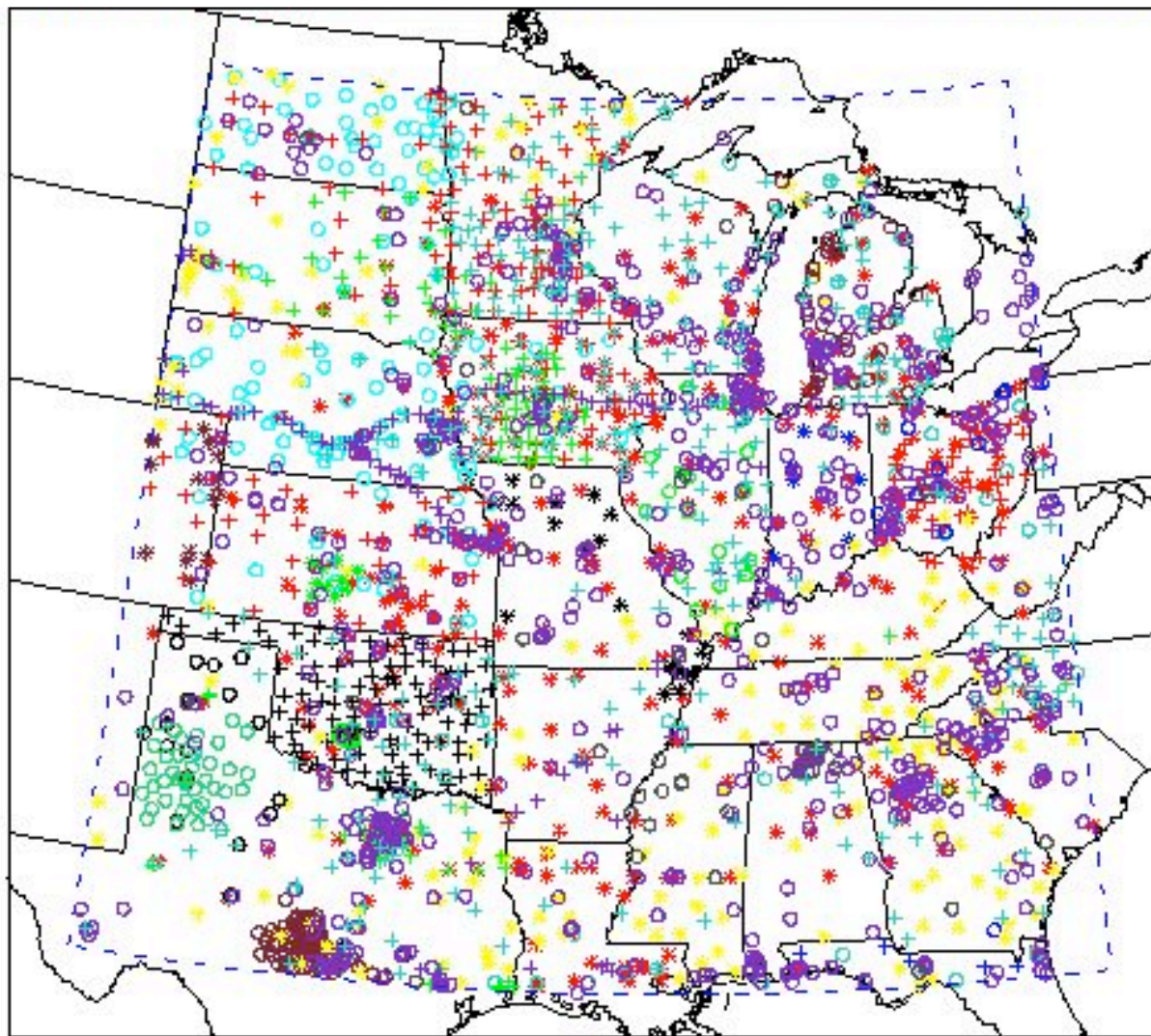
- Provides data in a uniform format with QC.
- Allows determination of network/site problems.
- Useful for model applications.
- Prevents duplication of effort.





# Hourly Surface Meteorological Data Composite (2991 stations)

- 1-min sites (\* 385)
- AWOS (+ 335)
- RAWS (\* 220)
- MesoWest (+ 94)
- HPCN (o 138)
- RWIS (+ 279)
- GPSMET (o 153)
- CO CoAgMet (\* 17)
- FL FAWN (+ 5)
- IA IEM (+ 88)
- IL ICN (o 19)
- IN PAAWS (\* 7)
- KS GWMD5 (\* 10)
- MI MAWN (o 33)
- MO CAWS (\* 21)
- OH OARDC (o 11)
- OK ARS Micro (o 42)
- OK Mesonet (+ 119)
- TX LCRA (o 102)
- TX TNRCC (+ 47)
- West TX Meso (o 39)
- Texas ET (o 23)
- 15 Other Networks (o 804)

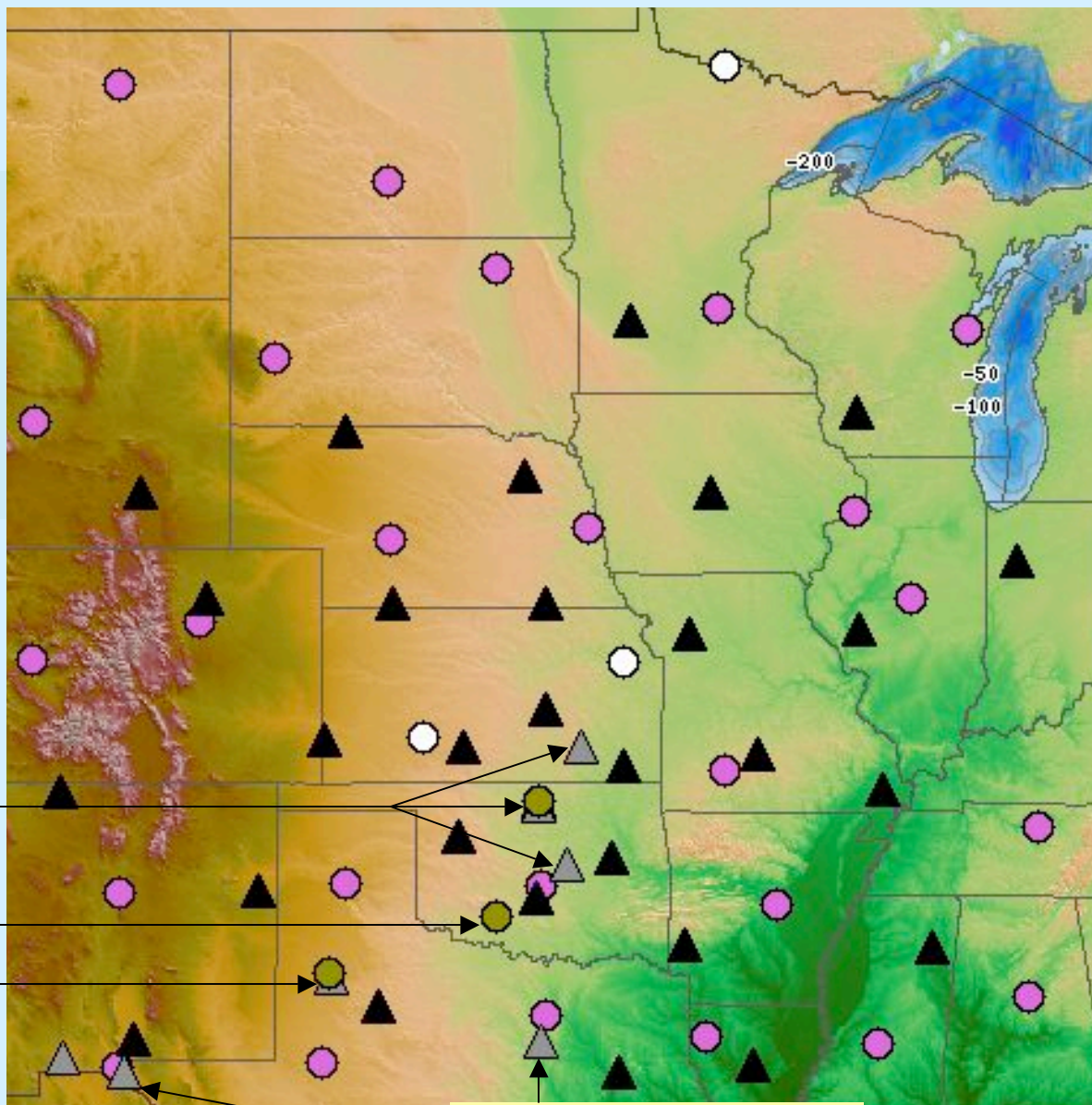


# Radiosonde/Profiler Sites

- Other Radiosonde Sites
- ▲ Other Profiler Sites
- ▲ NOAA Profiler Network Sites
- NMS MicroART Radiosonde Sites
- NMS RRS Radiosonde Sites

**RRS** Sippican MarkIIA GPS sondes  
 1-sec vertical resolution  
 TOP changeover in early Apr

**MicroART** VIZ B2 sonde with  
 Radiotheodolite winds  
 6-sec vertical resolution  
 DDC only by field phase



ARM (915MHz)

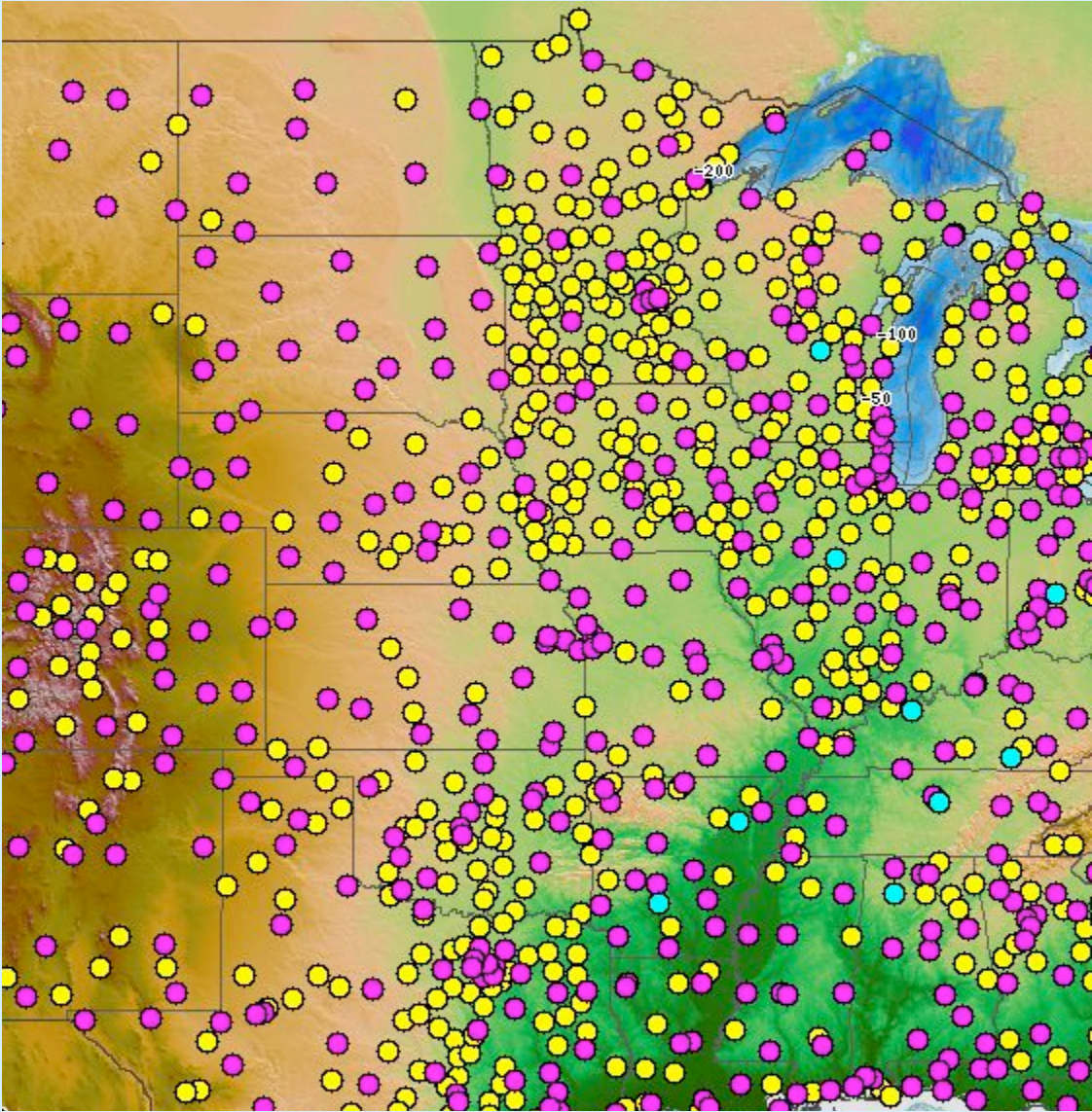
Fort Sill

West TX Mesonet  
 (915 MHz)

TNRCC (915MHz)

# ASOS/AWOS Networks

- AWSS
- ASOS
- AWOS



# MADIS Networks

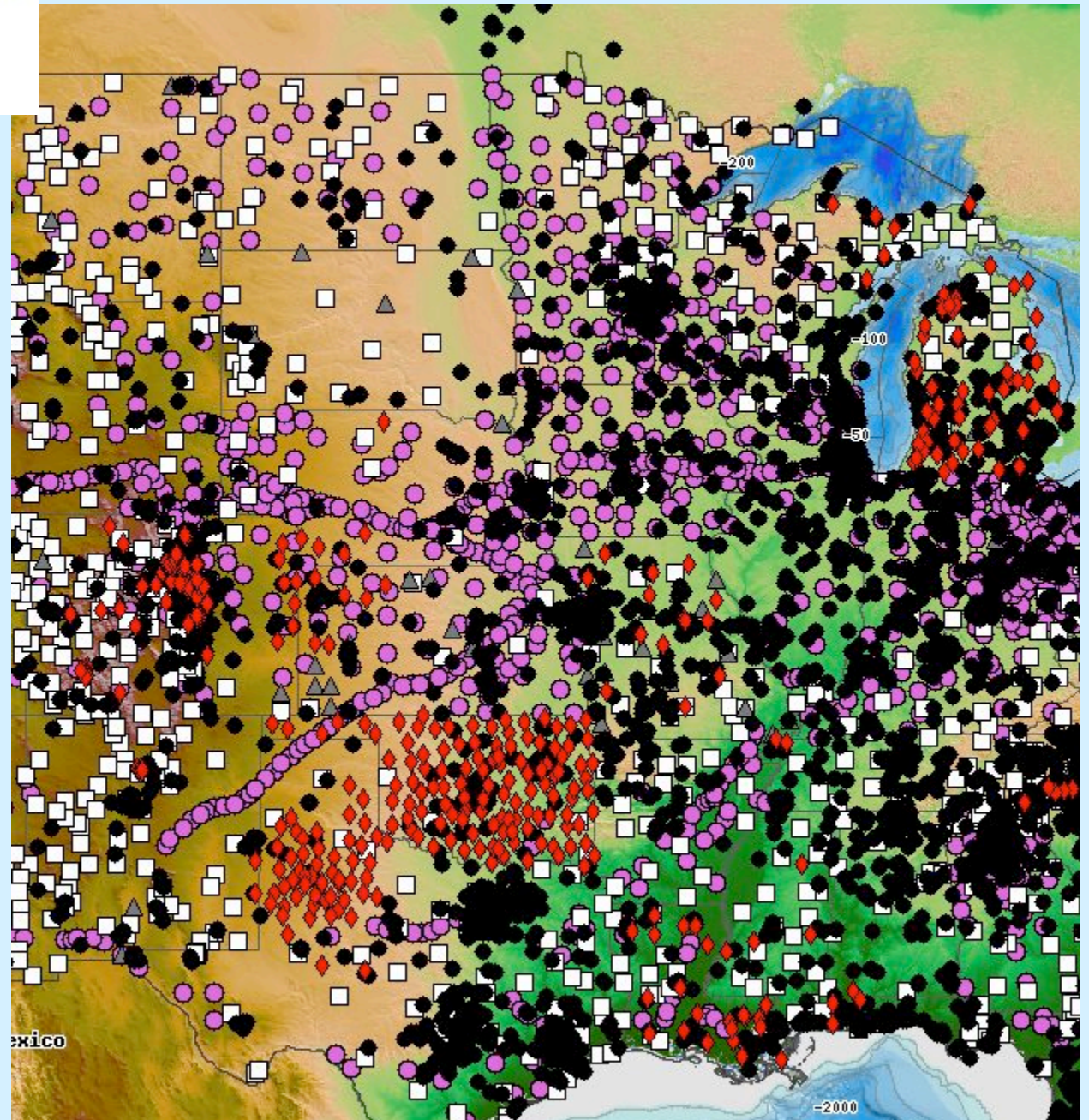
- ◆ MADIS - Various Mesonets
- MADIS - Personal Weather Station Networks
- ▲ MADIS - Non-Federal AWOS Network
- MADIS - RAWS Network
- MADIS - DOT Networks

Air Force Academy  
CAIC  
GLDNWS  
IEM  
LAIS (5 min)  
LANL  
MAWN  
MOCComAgNet  
MQT-Meso  
OKMeso (15 min)  
UDFCD  
West TX Mesonet

APRSWXNET  
AnythingWX.com  
WXforyou.com

CODOT  
CO E470  
IADOT  
INDOT  
KSDOT  
KYDOT  
MNDOT  
NDDOT  
NEDOR  
WIDOT  
WYDOT  
UPR

GLOBE  
GPSMET  
HADS  
SCAN  
CRN  
Non-Fed AWOS  
RAWS



## **Some Networks not in MADIS that may be of interest**

High Plains Climate Network

State Air Quality Networks

South Dakota DOT RWIS

Water Management District Networks (KS/CO)

Additional ALERT networks (e.g. Overland Park, KS)

ARS Micronet (SW OK)

OKC Micronet

Texas ET Networks

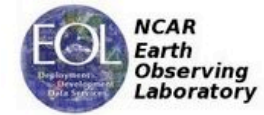
COAgMet

IA AgClimate Network



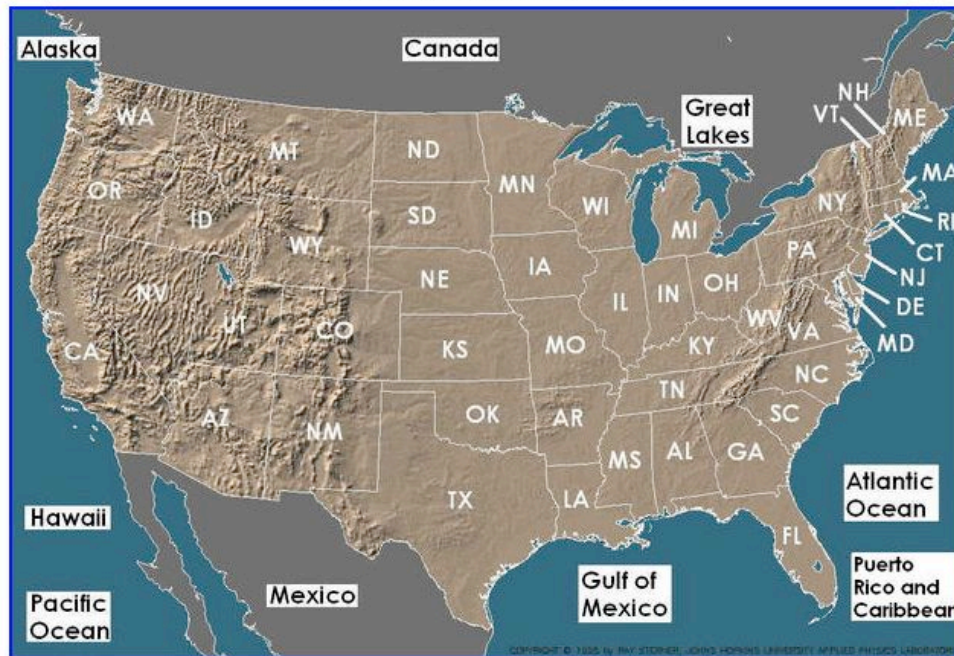


# Hydrometeorological Networks in the United States



If you have updates or know of other networks please pass them along to [loehrer at ucar dot edu](mailto:loehrer@ucar.edu)

Click on state of interest



[Back to GAPP Data Management Home Page.](#)

[Back to SGP/SMEX Data Management Home Page.](#)

<http://www.eol.ucar.edu/projects/hydrometnet/>

# PROJECT MASTER LISTS

VOCALS Data Access - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://data.eol.ucar.edu/master\_list/?project: Google

CNN.com Weather and Climate F... UCAR/NCAR E-mail and... NOAA Locator (Public) AT&T: Directory: Direc... Systems Support Online

Mail :: Inbox

VOCALS Data Access



## DATA BY CATEGORY

- [Aircraft](#)
- [Hydrology](#)
- [Land Based](#)
- [Model](#)
- [Oceanography](#)
- [Radar](#)
- [Radiation](#)
- [Satellite](#)
- [Ship Based](#)
- [Upper Air](#)

[Back to VOCALS](#)

Email comments & questions to [vebmaster@eol.ucar.edu](mailto:vebmaster@eol.ucar.edu)

### Land Based: Precipitation

<a href="#">GPCP Global Daily 1-Degree Combination Data [NASA]</a>	2003-06-03	<a href="#">Document</a>
<a href="#">GPCP Global Daily Merged Precipitation Analyses Imagery [NASA]</a>	2003-06-03	<a href="#">Document</a>
<a href="#">GPCP Global Monthly 1-Degree Combination Data [NASA]</a>	2003-06-03	<a href="#">Document</a>
<a href="#">GPCP Global Monthly Merged Precipitation Analyses Climatology Data [NASA]</a>	2003-06-03	<a href="#">Document</a>
<a href="#">GPCP Global Monthly Merged Precipitation Analyses Imagery [NASA]</a>	2003-06-03	<a href="#">Document</a>
<a href="#">GPCP Global Pentad (5-Day) Precipitation Analysis [NASA]</a>	2003-06-03	<a href="#">Document</a>
<a href="#">NCEP/CPC Global CMAP Precipitation Analyses</a>	2003-06-03	<a href="#">Document</a>
<a href="#">NCEP/CPC Global CMORPH Precipitation Analyses</a>	2003-06-03	<a href="#">Document</a>
<a href="#">PERSIANN 1°x1° Tropical Rainfall Data [NASA]</a>	2003-06-03	<a href="#">Document</a>
<a href="#">TRMM Real-time Rainfall Analyses (3-h) [NASA]</a>	2003-06-03	

### Model

<a href="#">ECMWF Global Grids [NCAR/SCD]</a>	2003-05-29	
<a href="#">EDC 30 Arc-Second Elevation Data [EDC]</a>	2003-06-05	<a href="#">Document</a>

# ISSUES FOR DISCUSSION

- Need “buy-in” from all participants (e.g. adhere to data policy, populate field catalog, provide data/metadata to archive....)
- Agree on Radar data formats
- Identify Integrated Products
- Need for other Data Services (e.g. Mailing Lists, Web pages..... )
- Other items or needs?



<http://survey.ucar.edu/opinio/s?s=3634>

## INFORMATION COLLECTED ON:

### VOCALS Data Questionnaire



The VOCALS Data Questionnaire is intended to collect information from the VOCALS PIs on their data requirements. This includes the requirements for real-time image products for the VOCALS Field Catalog and the data sets required for the Long-Term Data Archive to support your research. Please fill out the form as completely as possible.

The **Field Catalog** will be the repository for products and documentation during the field phase. All data and documentation coming from VOCALS will reside in the **Long-Term Data Archive**.

#### CONTACT INFORMATION

1. Name:

2. Affiliation:

3. Mailing Address:

4. E-mail:

5. Telephone:

6. Fax:

Next

Powered by [Opinio](#)

- Imagery and products needed for the field catalog (real-time ingest)
- Supporting Datasets needed for research
- PI Data to be submitted to the field catalog/archive
- Product transfer to aircraft
- Special products/reports/datasets needed

## DATA CATEGORIES

Aircraft

Upper Air

Satellite

Oceanographic

Land-based

Model Output

Radar/Lidar

Other

# IHOP\_2002 DATA MANAGEMENT PLAN OUTLINE

## 1.0 Introduction/Background

- 1.1 Scientific Objectives
- 1.2 Data Management Philosophy

## 2.0 Data Management Policy

- 2.1 Data Protocol
- 2.2 Data Processing/Quality Control
- 2.3 Data Availability
- 2.4 Data Attribution
- 2.5 Community Access to Data

## 3.0 Data Management Functional Strategy/Description

- 3.1 Data Archive and Analysis Centers
- 3.2 Investigator Requirements
  - 3.2.1 Data Format Conventions
  - 3.2.2 Data Submission Requirements
- 3.3 Data Collection Schedule
  - 3.3.1 On-line Field Catalog
- 3.4 Data Processing following the Field Phase
- 3.5 Data Integration
- 3.6 Data Archival and Long-term Access

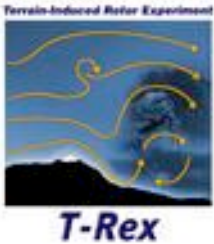
## 4.0 IHOP\_2002 Data Sets

- 4.1 Data Collection/Processing
- 4.2 Status Update Procedures
- 4.3 In-field Data Display and Analysis Requirements
- 4.4 Coordination with other Programs
- 4.5 Advanced Water Vapor Sensor Intercomparison Data Set

## APPENDICES

- A. Research Data Sets
- B. Operational Data Sets
- C. List of Acronyms (LOA)





# T-REX Map Server

<http://mapserver.eol.ucar.edu/trex/>

**Background Layers** – DEM, orthophoto quads (aerial photo), USGS topo quads, roads, hydrography, federal lands, cities.

**Points** – All T-REX instruments are included using the lat/lon information provided in the documentation files.

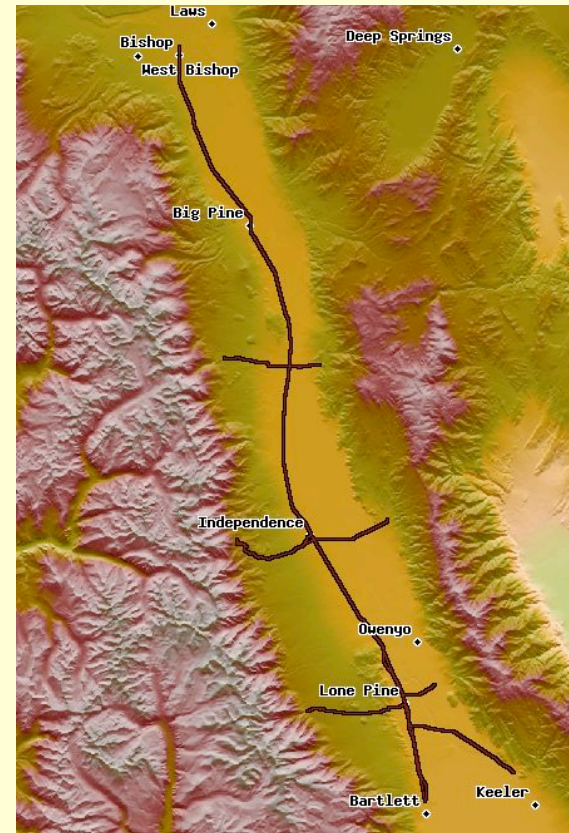
**Dropsondes** – All T-REX dropsonde final reported locations are included.

**Tracks** – All aircraft flights and WOW excursions.

**IOP/EOP Maps** – Can generate maps specific to a particular IOP or EOP with the locations of all mobile platforms, aircraft/vehicle tracks, and dropsonde locations specific to that IOP or EOP.

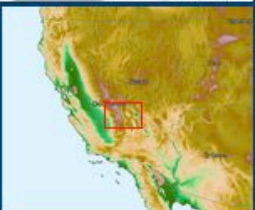
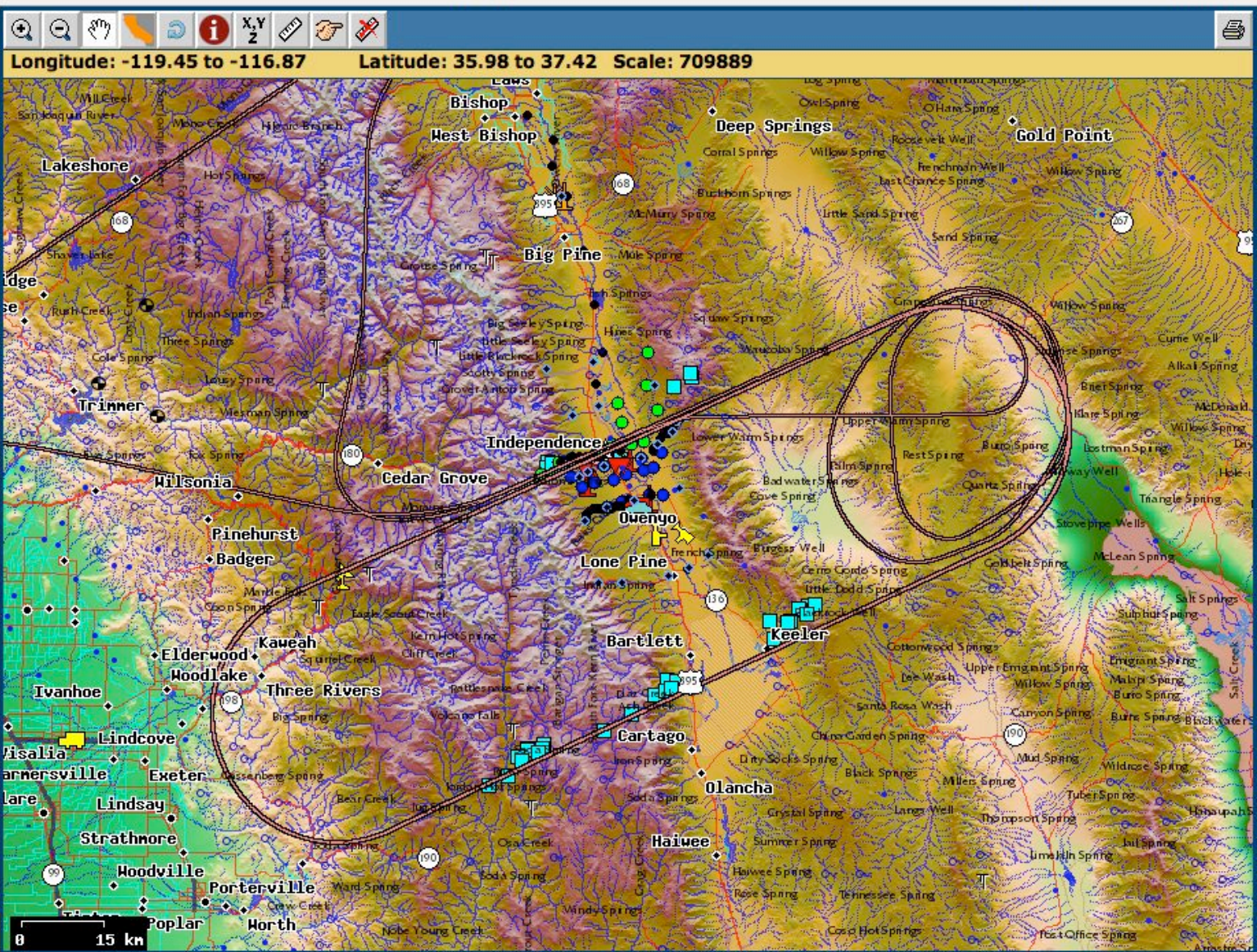
**Surface Meteorological Composites** – Can generate maps of locations that were included within a particular composite data set including the operational data sources.

**Station Information** – Can click on a station to get additional information (station name, lat, lon, elev, etc).



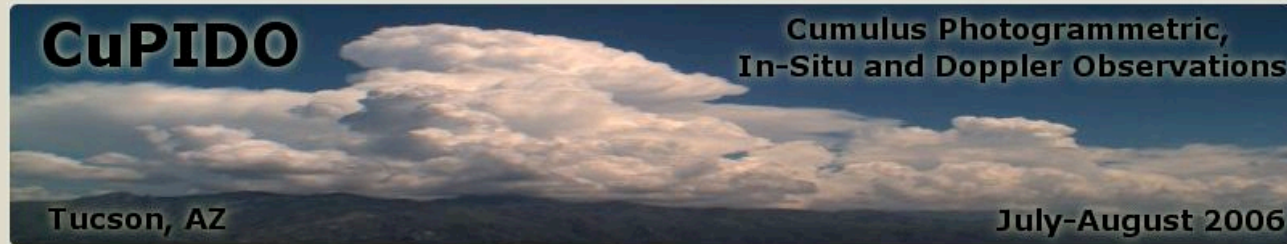


- Vector
  - LatLon Grid
  - Countries
  - US States
  - US Cities
  - Roads(BTS)
  - Hydrography(NH)
  - Federal Lands
- T-REX Sensors
  - Other Surface Netw
  - Other Upper Air Ne
  - Other Precipitation
- GV Dropsondes
  - IOP-1
  - IOP-2
  - IOP-3
  - IOP-4
  - IOP-6
  - IOP-9
  - IOP-10
  - IOP-13 15 April
  - IOP-13 16 April
  - IOP-14 21 April
  - IOP-15 26 April
  - IOP-1 Found
  - IOP-2 Found
  - IOP-3 Found
  - IOP-4 Found
  - IOP-6 Found
  - IOP-9 Found
  - IOP-13 16 April F
  - IOP-15 Found
- BAe Dropsondes
- GV Flight Tracks
  - HIAPER realtime
  - IOP-1
  - IOP-2
  - IOP-3
  - IOP-4
  - IOP-6
  - IOP-9





# PROJECT WEB PAGES



## Project Description

**Cumulus Photogrammetric, In-Situ and Doppler Observations (CuPIDO)** is an observational program designed to examine the onset and development of orographic thunderstorms associated with the North American Monsoon. The CuPIDO field program used digital visible spectrum cameras, surface mesonet stations, high temporal resolution soundings and aircraft data.



## Data Access

### [Master List of All CuPIDO Data Sets](#)

[CuPIDO Field Catalog](#)

### [Data Policy](#)

[Dataset Documentation Guidelines](#)

[Data Submission Instructions](#)

## Publications

[Publications](#)

## Documents

[Project Summary \(PDF\)](#)

[Non-Technical Summary \(PDF\)](#)

[Scientific Overview Document](#)

[ISFF Site Survey \(PDF\)](#)

[ISFF Site Survey \(slideshow\)](#)

## Meetings

[CuPIDO Preparation Meeting \(12 April 2006\)](#)

[CuPIDO Planning Workshop \(11 April 2005\)](#)

## People

[CuPIDO Participants](#)

## CuPIDO Research Web Pages

[Arizona State \(Joe Zehnder\)](#)

[Wyoming \(Bart Geerts\)](#)

[NCAR/EOL ISFF](#)

[Wyoming King Air](#)

## CuPIDO Media and Animations

[KSAZ-TV Monsoon Story \(21 July 2006; 100Mb Quicktime\)](#)

[26 July 2005 Thunderstorm \(340Mb Quicktime\)](#)

[26 July 2005 Microburst \(350Mb Quicktime\)](#)

[10 July 2004 \(60Mb Quicktime\)](#)

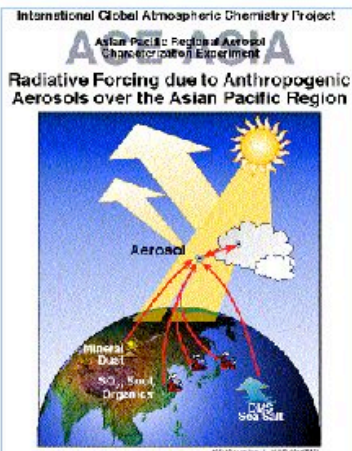
[13 July 2004 \(33Mb Quicktime\)](#)

[14 July 2004 \(23Mb Quicktime\)](#)

[16 July 2004 \(27Mb Quicktime\)](#)

# PROJECT AND WORKING GROUP MAILING LISTS

ACE-Asia Mailing Lists at UCAR/JOSS



Welcome!

Below is a listing of all the ACE-Asia mailing lists at UCAR/JOSS. Click on a list name to get more information about the list, view its archives (must be list member) or to subscribe, unsubscribe, and change the preferences on your subscription (requires password). (Send questions or comments to [mailman-owren@joss.ucar.edu](mailto:mailman-owren@joss.ucar.edu).)

## List

[aa-adnet](#)  
[aa-airmass-info](#)  
[aa-airmass-working](#)  
[aa-c130-inlet](#)  
[aa-casestudies](#)  
[aa-chemistry-carb](#)  
[aa-chemistry-inorganic](#)  
[aa-chemistry-mineral](#)  
[aa-collaboration](#)  
[aa-dust-comp](#)  
[aa-hygro-growth](#)  
[aa-kosan-all](#)  
[aa-kosan-pi](#)  
[aa-kosan-size](#)  
[aa-model](#)  
[aa-model-reg](#)

## Description

ADNet (LIDAR)  
Results of the Working Group on Air Mass Characterization  
Internal discussions of Working Group on Air Mass Characterization  
C-130 and Inlet/Plumbing Discussion  
Case Studies: Possibly the Perfect Dust Storm?  
Carbonaceous Aerosols  
Inorganic Aerosols, Impactors and Intercomparison  
Mineral Aerosol and Trace Metals  
Future Collaboration among the Asian Participants  
Dust Composition and Radiative Effects  
Hygroscopic Growth  
Kosan and Surface Sites  
Kosan - PI List  
Kosan Size Distribution  
Modeling Working Group  
Regional Model Comparisons

# **RICO DATA POLICY SUMMARY**

- **All investigators must agree to promptly submit their data to the RICO archive**
- **All data shall be provided to other RICO Investigators upon request**
- **During the initial 1-year data analysis period, data may be provided to a third party only with the permission of the investigator(s) who collected the data**
- **All data will be considered public domain not more than 1-year following the end of the RICO field phase**
- **Any use of the data will, at a minimum, include acknowledgment. Co-authorship TBD with the investigator(s) who collected the data**

# RICO DATASET METADATA

**TITLE:** This should match the data set name AUTHOR(S):

Name(s) of PI and all co-PIs

Complete mailing address, telephone/facsimile Nos.,

E-mail address of PIs, and WWW address (if applicable)

Similar contact information for data questions (if different than above)

## **1.0 DATA SET OVERVIEW:**

Introduction or abstract

Time period covered by the data

Physical location (including lat/lon/elev) of the measurement or platform

Data source if applicable (e.g. for operational data include agency)

Any World Wide Web address references (i.e. additional documentation such as Project WWW site)

## **2.0 INSTRUMENT DESCRIPTION:**

Brief text (i.e. 1-2 paragraphs) describing the instrument with references

Figures (or links), if applicable

Table of specifications (i.e. accuracy, precision, frequency, resolution, etc.)

## **3.0 DATA COLLECTION AND PROCESSING:**

Description of data collection

Description of derived parameters and processing techniques used

Description of quality control procedures

Data intercomparisons, if applicable

## **4.0 DATA FORMAT:**

Data file structure and file naming conventions (e.g. column delimited ASCII, NetCDF, GIF, JPEG, etc.)

Data format and layout (i.e. description of header/data records, sample records)

List of parameters with units, sampling intervals, frequency, range

Data version number and date

Description of flags, codes used in the data, and definitions (i.e. good, questionable, missing, estimated, etc.)

## **5.0 DATA REMARKS:**

PI's assessment of the data (i.e. disclaimers, instrument problems, quality issues, etc.)

Missing data periods

Software compatibility (i.e. list of existing software to view/manipulate the data)

## **6.0 REFERENCES:**

List of documents cited in this data set description