

DEEPWAVE Field Catalog

Steve Williams and Greg Stossmeister
EOL/Computing Data and Software Facility

*DEEPWAVE Science
and Planning
Meeting
21-22 January, 2014*

EOL FIELD CATALOG TOOL

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

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

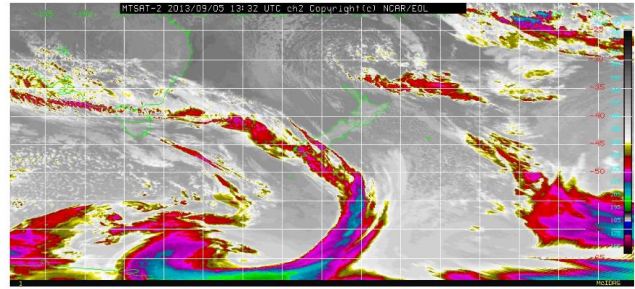
**Long term product & report archive*

Home Reports Ops Products Model Products Research Products Tools & Links Help

DEEPWAVE_2013 Field Catalog

DEEPWAVE 2013 Dry Run

MTSAT-2 IR Imagery



Current Reports

- Chief Scientist Summary
- Weather Discussion
- Predictability and Targeting Discussion

Tools

- Catalog Maps (GIS Tool)
- Way Point Calculator

Chatrooms

- IRC Chat Access
- Help Documentation
- Get a Password: catalog@eol.ucar.edu

Project Time

UTC	Mon, Jan 20, 17:05 Z	Boulder, CO	Mon, Jan 20, 11:05 AM
Hobart, TAS	Tues, Jan 21, 3:05 AM	Christchurch, NZ	Tues, Jan 21, 5:05 AM
Oberpfaffenhofen, DLR	Mon, Jan 20, 7:05 PM	Honolulu, HI	Mon, Jan 20, 7:05 AM

Phone Numbers

Operations Center: XXX-XXX-XXXX
Operations Status Message: XXX-XXX-XXXX
Teleconference: XXX-XXX-XXXX
Teleconference: XXX-XXX-XXXX (Denver Local)
Access Code: XXXXXXX

External Webpages

- EOL
- EOLCDS
- EOLFPS

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FIELD CATALOG SAMPLE PRODUCTS

TPARC_2008 Operations Plan of the Day

Date of report(UTC): 2008/09/23 23:50
Author of report: Dick Dina
Submitted at: 2008/09/24 00:37
Revised at(UTC): 2008/09/24 19:33

Operations Summary:

The P-3, C-130 and Falcon are all down today.
The C-130 is scheduled to fly tomorrow, 24 September (Sun, Japan 17).
The P-3 is scheduled to fly tomorrow, 25 September.
The Falcon is not scheduled to fly tomorrow.
Flight schedules for C-130 and P-3 shown below.
Schedule for C-130 in the next 24 hours:
Event UTC Guam LT MST LT
P3 Plan 120000 24 Sep 2200 25 Sep 0500 24 Sep
Ordnance 120000 24 Sep 2200 25 Sep 0600 24 Sep
Briance Ref
Crew alert 130000 24 Sep 2300 25 Sep 0600 24 Sep
Crew alert 140000 24 Sep 2300 25 Sep 0700 24 Sep
C-130 1700 170000 24 Sep 0300 25 Sep 1000 24 Sep
C-130 Land 080000 25 Sep 1200 25 Sep 1700 24 Sep
Debrief 010000 25 Sep 1100 25 Sep 1800 24 Sep
Schedule for the WDC P-3 in the next 24 hours:
Event UTC Guam LT MST LT
Release Ref 170000 24 Sep 0300 25 Sep 1000 24 Sep
Crew alert 170000 24 Sep 0300 25 Sep 1000 24 Sep
WDC P-3 170000 24 Sep 0300 25 Sep 1000 24 Sep
p-3 Land 040000 25 Sep 1400 25 Sep 2100 24 Sep
Debrief 050000 25 Sep 1500 25 Sep 2200 24 Sep
C-130 required flight tracks 5 or more hours before take off as a pre-op decision 3 hours before launch. Pre-flight science briefing will be 1 hour in advance of each aircraft departure. Pre-flight operational brief will be two hours in advance of departure of each aircraft.
Drifts/operations continue: Flight #13 is operational and is located at 16.8N, 163.5E, at 25.0k altitude. Flight #14 is operational and is located at 16.5N, 171.0E, at 21.0k altitude. Flight #15 is operational and is located at 16.8N, 170.0E, at 27.0k altitude. Flight #16 was launched at 151700Z, 23 Sept.
The Daily Planning Meeting will be at the regular time:
DPM 230000 24 Sept 0800 25 Sept 1400 24 Sept

SCIENTIFIC OBJECTIVES:

Structure change in TOS-647 southeast of Guam

MISSION PLANS:

PRIMARY MISSION:



MLS v02.23 Ozone Data, Ascending Orbits
May 15, 2008 (20080136)

TPARC_2008 Facilities Status Report

Date of report(UTC): 2008/10/03 22:20
Author of report: Dick Dina
Submitted at(UTC): 2008/10/03 22:22

OVERVIEW:

P-3 is operational. Wind lidar down, possibly up 5.0m.
Falcon flight operations were completed yesterday.
C-130 flight operations have been completed.
Drifts/operations have been completed.

FACILITY STATUS

Legend: ■ = up, ■ = provisional, ■ = down, ■ = no report	
1. NRL P-3 (Remaining flight hrs: ~20)	Comment: last flight day 5 Oct.
ELDORA Radar	Comment: power supply problem, repairs underway
OW Wind Lidar	Comment: power supply problem, repairs underway
Dropsense System	Comment: power supply problem, repairs underway
Data System	Comment: power supply problem, repairs underway
Communications	Comment: power supply problem, repairs underway
2. USAF C-130 (Remaining flight hrs: ~)	Comment: Flight operations completed
Dropsense System	Comment: Flight operations completed
Data System	Comment: Flight operations completed
Communications	Comment: Flight operations completed
Radar Recording	Comment: Flight operations completed
ARBT System	Comment: Flight operations completed
3. DRUID-CMET Falcon (Remaining flight hrs: ~)	Comment: Flight operations completed
Water Vapor Lidar	Comment: Flight operations completed
Doppler Wind Lidar	Comment: Flight operations completed
Dropsense System	Comment: Flight operations completed
Data System	Comment: Flight operations completed
Communications	Comment: Flight operations completed
4. DOTSTAR (Remaining flight hrs: ~4)	Comment: Flight operations completed
Dropsense System	Comment: Flight operations completed
5. Drifts/Operations	Comment: All operations have been completed.
Dropsense System	Comment: All operations have been completed.
Gondole	Comment: All operations have been completed.
Launch Site	Comment: All operations have been completed.
Science Center	Comment: All operations have been completed.
Monterey	Comment: All operations have been completed.

Mission Scientist Report, RICO, King Air Flight January 21st, 2005 UW King Air Flight Scientist: Stevens

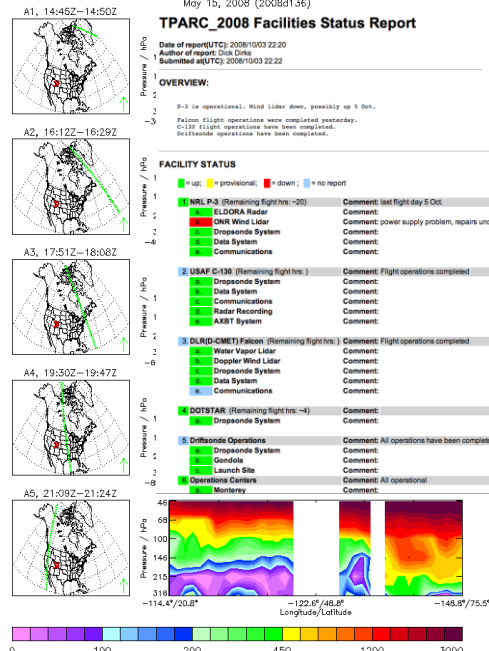
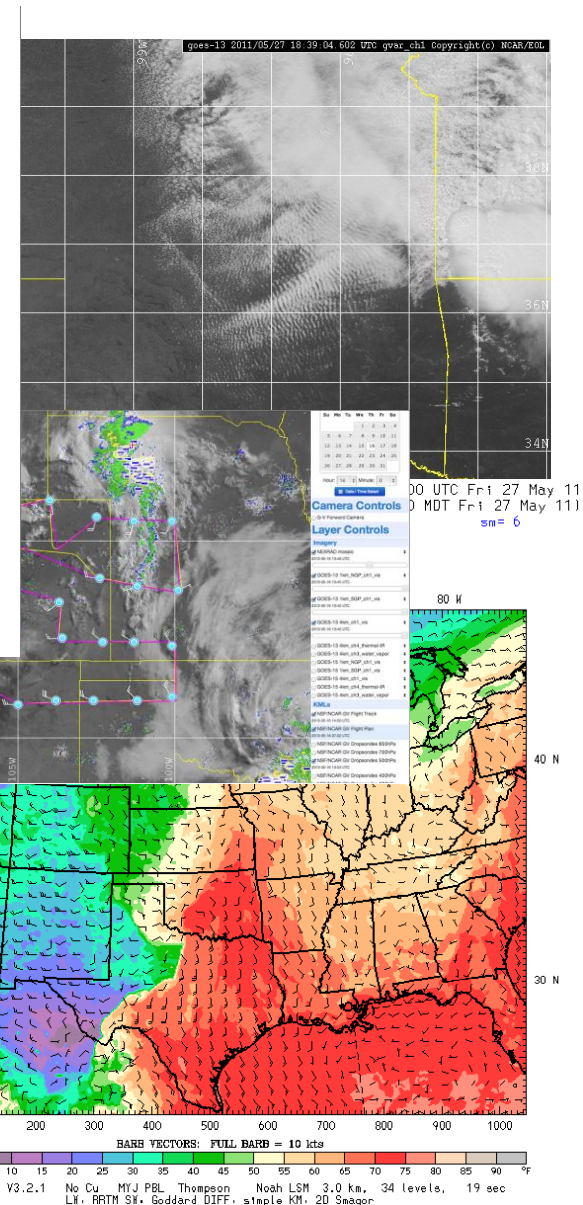
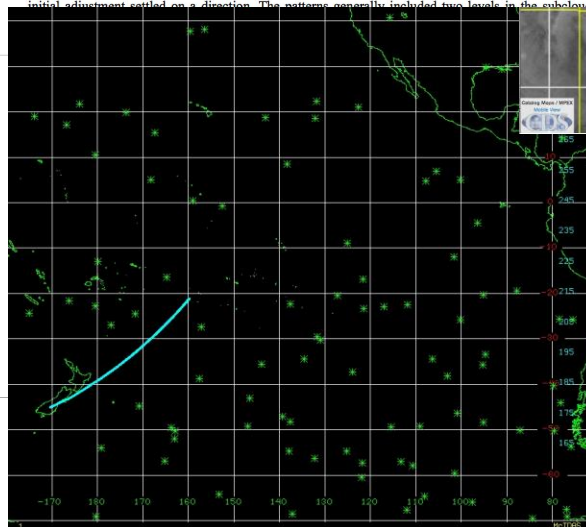


Figure 1: Images showing cloud field during flight.

General cloud characteristics: The cloud field was rather suppressed with patches of humulus and patches of clear, with tops rarely developing above 4000'. During the day a magnificent tail developed west of Barbuda. This tail had a tremendous radar projection, but faded by the time we worked it, only to redevelop somewhat after we left. Drop concentrations were generally light, near 50 or 75 cm⁻³.

General Comments: The King Air was the only aircraft in the area as the BAE flew well to the north on this day in search of deeper clouds. The initial plan was to fly along and cross wind segments near the ship for estimating momentum fluxes by fields of shallow cumulus, following a line suggested by Peggy LeMone. Winds proved rather light, as did the shear and cloud field. Indeed echoes were so little in evidence we often turned off the radar, and did not fly legs over the top of the cloud field for which the dual Doppler was desired. Later in the flight we flew a tail pattern which sampled a dissipating tail west of Barbuda, and the period before its subsequent redevelopment.

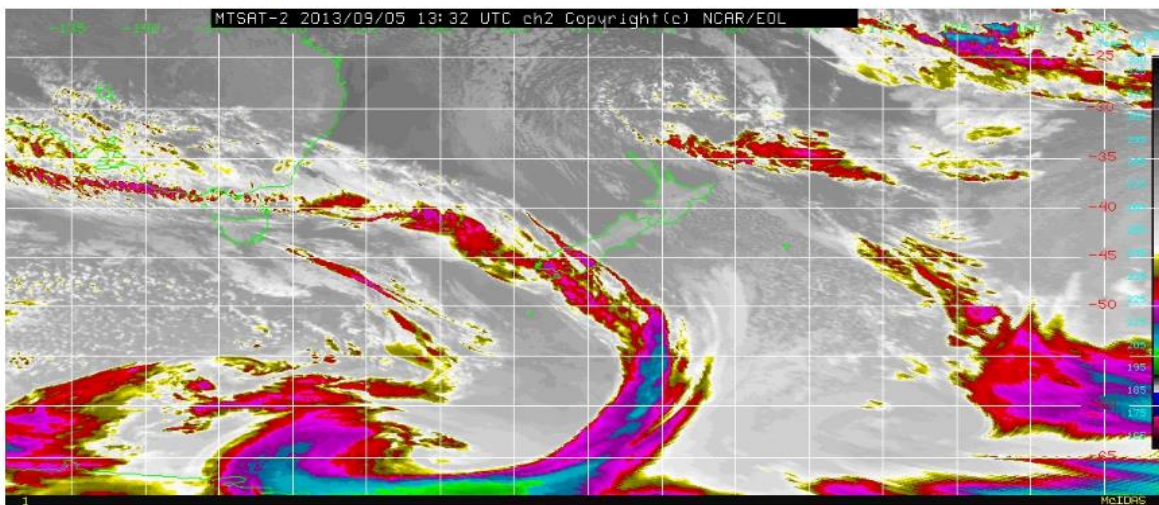
Overview of Flight Pattern: The momentum patterns were to consist of stacks of four to five legs, along and across the shear. We attempted to coordinate these with the ships heading, and after some initial adjustment settled on a direction. The pattern generally included two levels in the subcloud



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Home	Reports	Ops Products	Model Products	Research Products	Missions	Tools & Links	Data Access	Help	274 ms 4 queries
« 2013/07/15 (UTC)			Date Select					2013/07/17 (UTC) »	
<div>Choose Product Group: </div>									
Satellite Products 2013/07/16									
Satellite, GOES-13									
1km Channel 1 (Visible) Northern Great Plains			2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
1km Channel 1 (Visible) Southern Great Plains			2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
4km Channel 1 (Visible)			2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
4km Channel 3 (Water Vapor)			2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
4km Channel 4 (Thermal IR)			2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
Satellite, GOES-14									
1km Channel 1 (Visible) Northern Great Plains			2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
1km Channel 1 (Visible) Southern Great Plains			2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
4km Channel 1 (Visible)			2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
4km Channel 3 (Water Vapor)			2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
4km Channel 4 (Thermal IR)			2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
Satellite, GOES-15									
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4km Channel 1 (Visible)			2013/07/16 16:45 UTC	2013/07/16	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
4km Channel 3 (Water Vapor)			2013/07/16 16:45 UTC	2013/07/16	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
4km Channel 4 (Thermal IR)			2013/07/16 16:45 UTC	2013/07/16	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
Surface Products 2013/06/16									
NCEP Precipitation Analysis									
Daily Accumulation			2013/06/15 12:00 UTC	2013/06/15	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
Hourly Accumulation			2013/06/16 02:00 UTC	2013/06/16	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		
Six Hourly Accumulation			2013/06/16	2013/06/16	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images		

« 2013/06/03 (UTC)

Date Select

2013/06/05 (UTC) »

Choose Other Product Group ▾

Satellite

Product Times (UTC)		2013-06-04																									
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Satellite, GOES-15																											
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		0111	0211									1011	1111	1200	1311	1411	1500	1611	1711	1800	1911	2011	2100	2211	2311		
		0115	0215									1030	1115	1230	1315	1415	1530	1615	1715	1830	1915	2011	2130	2215	2315		
		0130	0230									1041	1130	1241	1330	1430	1541	1630	1730	1841	1930	2015	2141	2230	2330		
1km Channel 1 (Visible) Southern Great Plains	0000 0030	0100											1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	☰
		0115	0200									1015	1130	1230	1315	1415	1530	1615	1715	1830	1915	2015	2130	2215	2315		
		0130	0215									1045	1130	1245	1330	1430	1545	1630	1730	1845	1930	2030	2145	2230	2330		
		0145										1045	1145	1245	1345	1445	1545	1645	1745	1845	1945	2045	2145	2245	2345		
4km Channel 1 (Visible)	0000 0030	0100	0200									1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	☰	
		0111	0211	0300								1011	1111	1200	1311	1411	1500	1611	1711	1800	1911	2011	2100	2211	2311		
		0115	0215	0330	0400							1015	1115	1230	1315	1415	1530	1615	1715	1830	1915	2011	2130	2215	2315		
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4km Channel 3 (Water Vapor)	0000 0030	0100	0200		0400	0500		0700	0800			1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	☰	
		0111	0211	0300	0411	0511	0600	0711	0811	0900	1011	1111	1200	1311	1411	1500	1611	1711	1800	1911	2000	2100	2211	2311			
		0115	0215	0330	0415	0515	0630	0715	0815	0930	1015	1115	1230	1315	1415	1530	1615	1715	1830	1915	2011	2130	2215	2315			
		0130	0230	0341	0430	0530	0641	0730	0830	0941	1030	1130	1241	1330	1430	1541	1630	1730	1841	1930	2015	2141	2230	2330			
4km Channel 4 (Thermal IR)	0000 0030	0100	0200		0400	0500		0700	0800			1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	☰	
		0111	0211	0300	0411	0511	0600	0711	0811	0900	1011	1111	1200	1311	1411	1500	1611	1711	1800	1911	2011	2100	2211	2311			
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		0130	0230	0341	0430	0530	0641	0730	0830	0941	1030	1130	1241	1330	1430	1541	1630	1730	1841	1930	2015	2141	2230	2330			
Satellite, GOES-14																											
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		0115	0215									1032	1115	1232	1315	1415	1532	1615	1715	1832	1932	2015	2132	2215	2315		
		0145	0232									1045	1132	1245	1332	1432	1545	1632	1732	1845	1945	2032	2145	2232	2332		
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1km Channel 1 (Visible) Southern Great Plains	0015 0032 0045	0102											1102	1215	1302	1402	1515	1602	1702	1815	1915	2002	2115	2202	2302	☰	
		0115	0202									1045	1115	1232	1315	1415	1532	1615	1715	1832	1932	2015	2132	2215	2315		
		0145	0215										1132	1245	1332	1432	1545	1632	1732	1845	1945	2032	2145	2232	2332		
													1145	1245	1345	1445	1545	1645	1745	1845	1945	2045	2145	2245	2345		
4km Channel 1 (Visible)	0015 0032 0045	0102	0202	0315								1002	1102	1215	1302	1402	1515	1602	1702	1815	1915	2002	2115	2202	2302	☰	
		0115	0215	0332	0402							1015	1115	1232	1315	1415	1532	1615	1715	1832	1932	2015	2132	2215	2315		
		0145	0232	0345								1032	1132	1245	1332	1432	1545	1632	1732	1845	1945	2032	2145	2232	2332		
			0245									1045	1145	1245	1345	1445	1545	1645	1745	1845	1945	2045	2145	2245	2345		
4km Channel 3 (Water Vapor)	0015 0032 0045	0102	0202	0315	0402	0502	0615	0702	0802	0915	1002	1102	1215	1302	1402	1515	1602	1702	1815	1915	2002	2115	2202	2302	☰		
		0115	0215	0332	0415	0515	0632	0715	0815	0932	1015	1115	1232	1315	1415	1532	1615	1715	1832	1932	2015	2132	2215	2315			
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4km Channel 4 (Thermal IR)	0015 0032 0045	0102	0202	0315	0402	0502	0615	0702	0802	0915	1002	1102	1215	1302	1402	1515	1602	1702	1815	1915	2002	2115	2202	2302	☰		
		0115	0215	0332	0415	0515	0632	0715	0815	0932	1015	1115	1232	1315	1415	1532	1615	1715	1832	1932	2015	2132	2215	2315			
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			0245		0432	0532		0745	0845		1045	1145	1245	1345	1445	1545	1645	1745	1845	1945	2045	2145	2245	2345			

« 2013/06/03 (UTC)

Date Select

2013/06/05 (UTC) »

Frame No:

18



playback: stop

Scale: 100

Loop Mode:



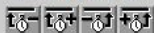
normal

Adjust Speed:



2 fps

Dwell First/Last:



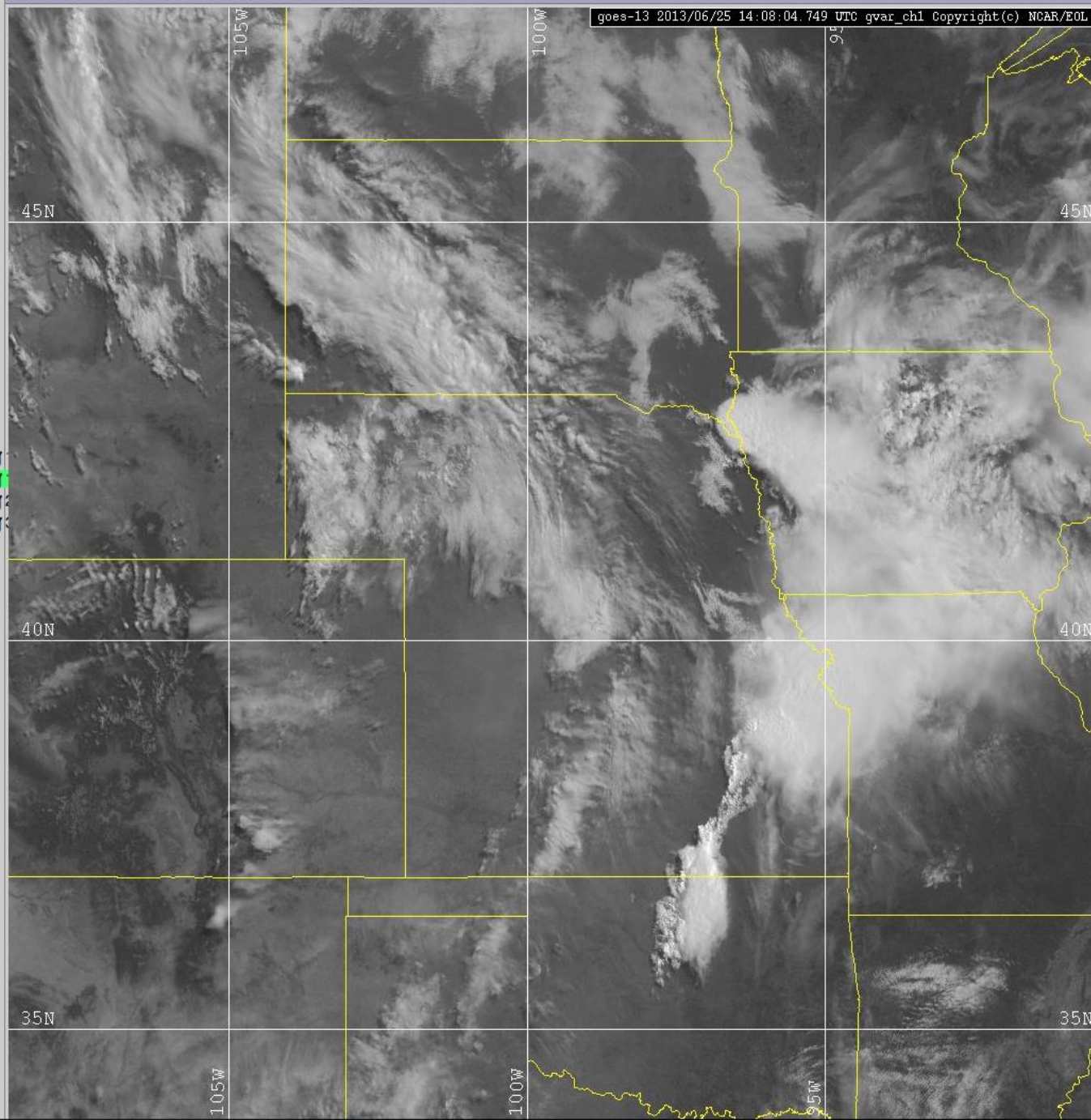
1.5s 1.5s

Selected Frames:

- ☒ 1 ☒ 2 ☒ 3 ☒ 4 ☒ 5 ☒ 6 ☒ 7 ☒ 8 ☒ 9 ☒ 10
- ☒ 11 ☒ 12 ☒ 13 ☒ 14 ☒ 15 ☒ 16 ☒ 17 ☒ 18
- ☒ 19 ☒ 20 ☒ 21 ☒ 22 ☒ 23 ☒ 24 ☒ 25 ☒ 26
- ☒ 27 ☒ 28 ☒ 29 ☒ 30 ☒ 31 ☒ 32 ☒ 33 ☒ 34
- ☒ 35 ☒ 36 ☒ 37

ops.GOES-13.201306251415.1km_NGP_ch1_vis.jpg

goes-13 2013/06/25 14:08:04.749 UTC gvar_ch1 Copyright(c) NCAR/EOL



« 2013/06/03 (UTC)

Date Select

2013/06/05 (UTC)

1

June 2013

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

Choose Product Group:

Satellite Products 2013/07/16

Satellite, GOES-13

1km Channel 1 (Visible) Northern Great Plains	2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
1km Channel 1 (Visible) Southern Great Plains	2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
4km Channel 1 (Visible)	2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
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4km Channel 4 (Thermal IR)	2013/07/08 22:02 UTC	2013/07/08	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images

Satellite, GOES-14

1km Channel 1 (Visible) Northern Great Plains	2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
1km Channel 1 (Visible) Southern Great Plains	2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
4km Channel 1 (Visible)	2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
4km Channel 3 (Water Vapor)	2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
4km Channel 4 (Thermal IR)	2013/06/10 20:45 UTC	2013/06/10	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images

Satellite, GOES-15

1km Channel 1 (Visible) Northern Great Plains	2013/07/16 16:45 UTC	2013/07/16	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
1km Channel 1 (Visible) Southern Great Plains	2013/07/16 16:45 UTC	2013/07/16	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images
4km Channel 1 (Visible)	2013/07/16 16:45 UTC	2013/07/16	Loop Last 6 Images	Loop Last 12 Images	Loop Last 24 Images

« 2013/07/07 (UTC)

Date Select

2013/07/09 (UTC) »

Choose Product Group:

CSU WRF Forecast Products 2013/07/08

500avo 4km

Run Time: 00:00:00 UTC

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

ESRL HRRR Dev Forecast Products 2013/06/15

0-1km shear

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

ESRL HRRR Forecast Products 2013/06/15

0-1km shear

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

ESRL RAP Dev Forecast Products 2013/06/15

1hr accum precip

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

ESRL RAP Forecast Products 2013/06/15

1hr accum precip

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCAR WRF ARW Forecast Products 2013/06/14

0-3km shear

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCAR WRF Ensemble Forecast Products 2013/06/14

Ensemble Abs Vor

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCAR WRF GFS Forecast Products 2013/06/14

0-3km shear

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCEP GFS Forecast Products 2013/06/15

200 heights wind

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCEP NAM Forecast Products 2013/06/15

200 heights wind

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCEP RAP Forecast Products 2013/06/16

1 hr total precipita

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

« 2013/07/07 (UTC)

Date Select

2013/07/09 (UTC) »

Choose Product Group:

































« 2013/06/14 (UTC)

Date Select

2013/06/16 (UTC) »

Choose Other Product Group ▾

NCEP GFS Forecast

	2013-06-15								2013-06-16								2013-06-17								
Product Times (UTC)	0	3	6	9	12	15	18	21	0	3	6	9	12	15	18	21	0	3	6	9	12	15	18		
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
NCEP Global Forecast System Model (GFS) from 2013-06-15 00:00:00 UTC																									
200 heights wind	000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr								
250 heights wind	000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr								
300 heights wind	000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr								
3 hr total precipitation		003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr								
500 heights vort	000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr								
700 heights rh	000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr								
850 heights temp	000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr								
mslp wind temp	000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr								
NCEP Global Forecast System Model (GFS) from 2013-06-15 06:00:00 UTC																									
200 heights wind			000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr						
250 heights wind			000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr						
300 heights wind			000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr						
3 hr total precipitation				003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr						
500 heights vort			000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr						
700 heights rh			000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr						
850 heights temp			000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr						
mslp wind temp			000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr						
NCEP Global Forecast System Model (GFS) from 2013-06-15 12:00:00 UTC																									
200 heights wind					000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr				
250 heights wind					000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr				
300 heights wind					000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr				
3 hr total precipitation						003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr				
500 heights vort					000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr				
700 heights rh					000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr				
850 heights temp					000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr				
mslp wind temp					000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr				
NCEP Global Forecast System Model (GFS) from 2013-06-15 18:00:00 UTC																									
200 heights wind							000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr		
250 heights wind							000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr		
300 heights wind							000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr		
3 hr total precipitation								003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr		
500 heights vort							000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr		
700 heights rh							000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr		
850 heights temp							000hr	003hr	006hr	009hr	012hr	015hr	018hr	021hr	024hr	027hr	030hr	033hr	036hr	039hr	042hr	045hr	048hr		

« 2013/07/07 (UTC)

Date Select

2013/07/09 (UTC) »

Choose Product Group:

CSU WRF Forecast Products 2013/07/08

500avo 4km

Run Time: 00:00:00 UTC

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

ESRL HRRR Dev Forecast Products 2013/06/15

0-1km shear

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

ESRL HRRR Forecast Products 2013/06/15

0-1km shear

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

ESRL RAP Dev Forecast Products 2013/06/15

1 hr accum precip

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

ESRL RAP Forecast Products 2013/06/15

1 hr accum precip

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCAR WRF ARW Forecast Products 2013/06/14

0-3km shear

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCAR WRF Ensemble Forecast Products 2013/06/14

Ensemble Abs Vor

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCAR WRF GFS Forecast Products 2013/06/14

0-3km shear

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCEP GFS Forecast Products 2013/06/15

- ✓ 200 heights wind
- 250 heights wind
- 3 hr total precipitation
- 300 heights wind
- 500 heights vort
- 6 hr total precipitation
- 700 heights rh
- 850 heights temp
- mslp wind temp

NCEP N 06/15

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

NCEP R 06/16

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

Run Time:

Analysis

Loop last 6 Analyses

Loop All Forecast
Periods

TODO: d(prog)/dt

« 2013/07/07 (UTC)

Date Select

2013/07/09 (UTC) »

Choose Product Group:



MPEX Field Catalog

Mesoscale Predictability Experiment

[Reports](#) » 2013-10-18

[« Previous Day \(UTC\)](#)

[No Next Day](#)

Report name	Latest report date
MPEX : report : chief_scientist : summary	No reports.
MPEX : report : ensemble : summary	2013-06-12 12:00:00 UTC
MPEX : report : facilities : status	2013-06-13 22:01:00 UTC
MPEX : report : mission_scientist : summary	2013-06-14 09:00:00 UTC
MPEX : report : mobile_sounding : plan_of_the_day	2013-06-12 19:00:00 UTC
MPEX : report : mobile_sounding : summary	2013-06-14 15:00:00 UTC
MPEX : report : ops : plan_of_the_day	2013-06-13 23:03:00 UTC
MPEX : report : weather : nowcast	2013-06-08 06:00:00 UTC
MPEX : report : weather : summary	2013-06-14 20:40:00 UTC



Phone Numbers

Operations Center: 303-497-2019
 Operations Status Message: 303-497-1040
 Teleconference: 1-866-740-1260
 Teleconference: 303-248-0285 (Denver Local)
 Access Code: 4978635

External Webpages

[MPEX](#)
[EOL](#)
[EOL/CDS](#)
[EOL/FPS](#)

Catalog Resources

[Field Catalogs](#)
[Catalog User Guide](#)
[Upload Documents](#)
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[EOL Facebook](#)
[IRC Chat Access](#)
 Request IRC Password:
catalog@eol.ucar.edu



All report products

Product Times (UTC)	20	21	22	23
summary				
2013-05-10		2146		
2013-05-13			2227	
2013-05-14			2213	
2013-05-15			2230	
2013-05-16	2046			
2013-05-17		2146		
2013-05-18		2149		
2013-05-20			2210	
2013-05-21		2148		
2013-05-22		2156	2244	
2013-05-23		2154		
2013-05-25				2308
2013-05-26			2200	
2013-05-27			2200	
2013-05-28		2136		
2013-05-29		2137		
2013-05-30			2208	
2013-05-31		2138		
2013-06-02			2241	
2013-06-03			2206	
2013-06-04			2221	
2013-06-06			2222	
2013-06-07			2213	
2013-06-08			2210	
2013-06-10	2040			
2013-06-11	2040			
2013-06-12	2040			
2013-06-13	2040			
2013-06-14	2040			

Search Parameters:

- project: [Mesoscale Predictability Experiment](#)
- dataset: **MPEX : report : weather : summary**
- No date parameters specified, delivering product **MPEX : report : weather : summary** for time period: **ALL**.

MPEX Weather Discussion

Date(UTC): 2013/06/14 20:40

Author: Clark Evans

Submitted at(UTC): 2013/06/14 20:24

Current Conditions/Review of Yesterday's Forecast:

Yesterday's forecast focused upon the development of deep, moist convection from Nebraska southwestward to northwest Kansas, eastern Colorado, and the southern High Plains. This forecast is on track, with convection initiation occurring between 1800-2000 UTC across the entire corridor. The most robust convection is occurring from southeast Colorado northeastward into south-central Nebraska, where the best overlap between instability and vertical wind shear are found, along a cold front. Otherwise, the large-scale pattern throughout the depth of the tropospheric is similar to that seen yesterday, albeit with some eastward progression of all salient atmospheric phenomena.

Elsewhere, elevated convection persists over eastern Nebraska and western Iowa and is making slow eastward progress at this time. Per an analysis of 1200 UTC sounding data, this convection appears to be driven primarily by strong warm air advection in the 850-700 hPa layer in an environment characterized by strong elevated instability (MUCAPE of 3500 J kg⁻¹ at 810 hPa at 1200 UTC 13 June at Omaha).

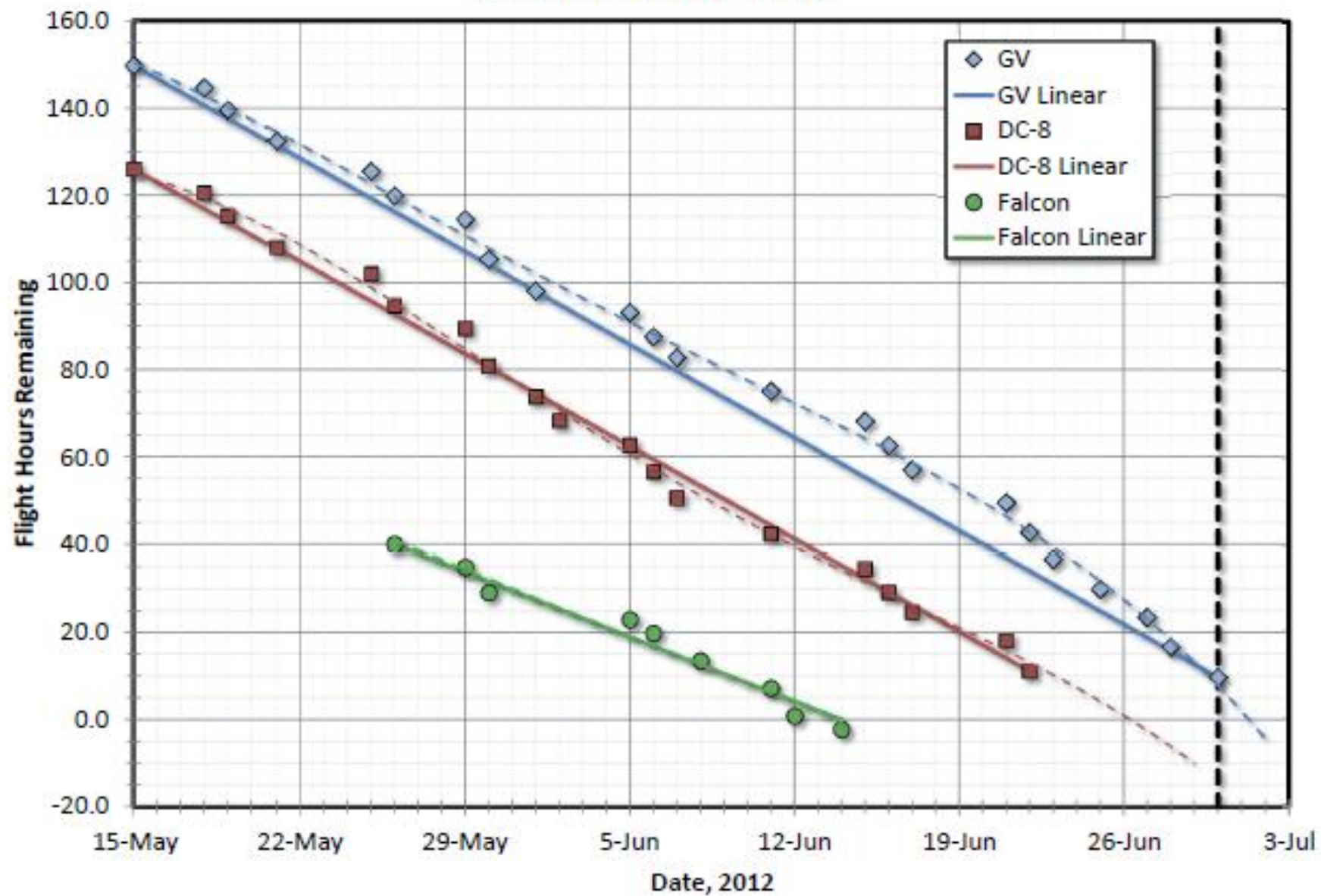
DAY 2 (Tomorrow) Update:

MPEX forecast operations have concluded. However, isolated severe convection is expected across northeastern Colorado tomorrow in response to east-northeasterly upslope flow, ~2000 J/kg of surface-based CAPE, and ~40 kt 0-6 km vertical wind shear to the south of the departing shortwave trough near the Montana/North Dakota/Canada border. Convection will most likely initiate along the higher terrain or, perhaps, in areas of localized convergence over the High Plains (e.g., northeast of the Denver cyclone).

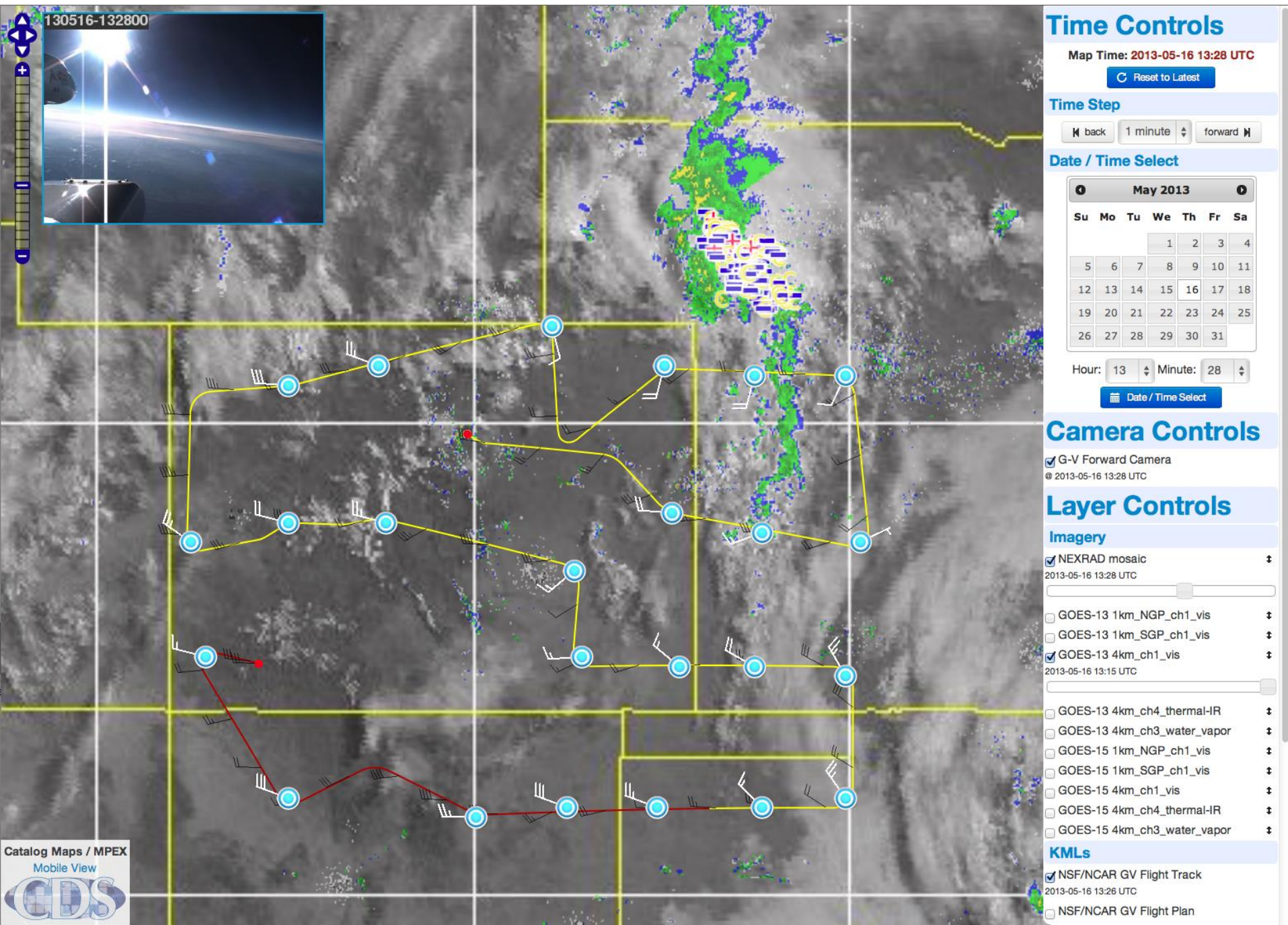
Longterm Outlook:

MPEX forecast operations have concluded, although thunderstorm chances will likely continue along the High Plains for the foreseeable future, particularly later in the long-term, for any rogue thunderstorm chasers or enthusiasts...

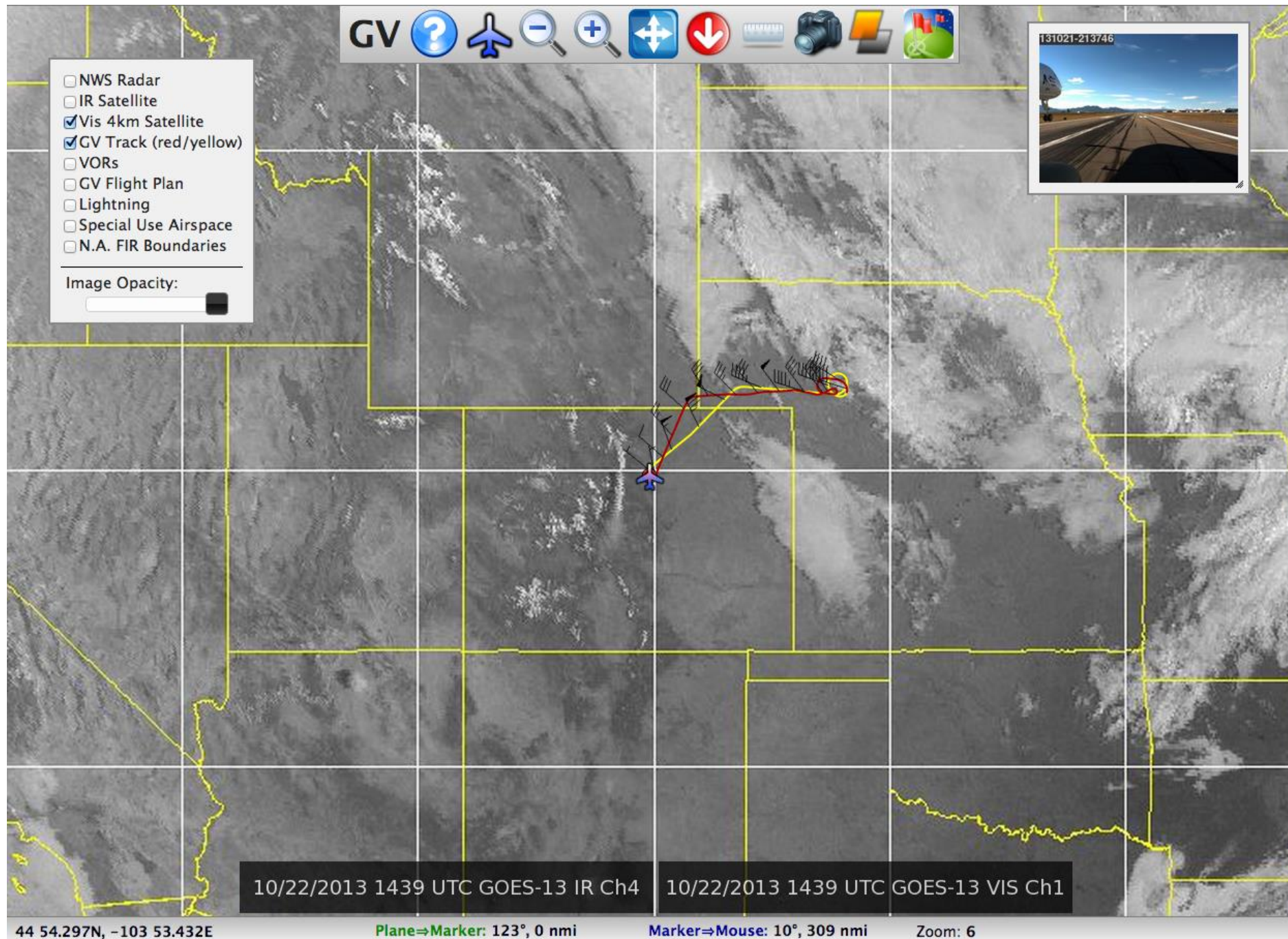
DC3 Flight Hour Usage



Catalog Maps



Mission Coordinator Display



IOP	Start Date/Time	End Date/Time	Instruments	Catalog Products	Flight Track Plots	Flight Track KMLs	Summaries	Notes
01	2013-05-15 09:00	2013-05-15 13:30	NCAR GV (RF01)	Satellite Radar Research - Aircraft Research - Dropsonde	GV Flight Track Plot	GV Flight Track GV Dropsonde Points GV Dropsonde 850 hPa Winds GV Dropsonde 700 hPa Winds GV Dropsonde 500 hPa Winds GV Dropsonde 400 hPa Winds GV Dropsonde 300 hPa Winds GV Dropsonde 250 hPa Winds	Mission Summary	The GV investigated atmospheric regions that were deemed sensitive to the development of heavy rainfall in north Central Texas later this evening (16 May). The flight path southward through New Mexico passed through what appeared to be an upper-level mesoscale vortex, later confirmed by the ABQ sounding
02	2013-05-16 09:00	2013-05-16 14:00	NCAR GV (RF02)	Satellite Radar Research - Aircraft Research - Dropsonde	GV Flight Track Plot	GV Flight Track GV Dropsonde Points GV Dropsonde 850 hPa Winds GV Dropsonde 700 hPa Winds GV Dropsonde 500 hPa Winds GV Dropsonde 400 hPa Winds GV Dropsonde 300 hPa Winds GV Dropsonde 250 hPa Winds	Mission Summary	This morning's GV mission centered on an upper-tropospheric mesoscale vortex over Colorado and consequences for deep convection downstream over Kansas (and possibly Nebraska as it turns out).
03	2013-05-18 09:00	2013-05-18 12:00	NCAR GV (RF03)	Satellite Radar Research - Aircraft Research - Dropsonde	GV Flight Track Plot	GV Flight Track GV Dropsonde Points GV Dropsonde 850 hPa Winds GV Dropsonde 700 hPa Winds GV Dropsonde 500 hPa Winds GV Dropsonde 400 hPa Winds GV Dropsonde 300 hPa Winds GV Dropsonde 250 hPa Winds	Mission Summary	This was a disappointing day for MPEX. The dropsonde system failed at way point 103 due to a stuck sonde that could not be cleared during flight.
04	2013-05-19 09:00	2013-05-19 14:00	NCAR GV (RF04) CSU Mobile Soundings Purdue Mobile Soundings NSSL Mobile Soundings	Satellite Radar Research - Aircraft Research - Dropsonde	GV Flight Track Plot	GV Flight Track GV Dropsonde Points GV Dropsonde 850 hPa Winds GV Dropsonde 700 hPa Winds GV Dropsonde 500 hPa Winds GV Dropsonde 400 hPa Winds GV Dropsonde 300 hPa Winds GV Dropsonde 250 hPa Winds	Mission Summary Mobile Sounding Summary	The GV mission this morning was focused on uncertainties that should affect the development of severe convection over eastern OK and KS late this afternoon.
05	2013-05-21 09:00	2013-05-21 14:15	NCAR GV (RF05)	Satellite Radar Research - Aircraft Research - Dropsonde	GV Flight Track Plot	GV Flight Track GV Dropsonde Points GV Dropsonde 850 hPa Winds GV Dropsonde 700 hPa Winds GV Dropsonde 500 hPa Winds GV Dropsonde 400 hPa Winds GV Dropsonde 300 hPa Winds GV Dropsonde 250 hPa Winds	Mission Summary	This mission for the GV this morning was to observe the atmosphere over western Texas and New Mexico in association with an upper-tropospheric trough that was progressing eastward and projected to encounter very unstable air over central Texas.
06	2013-05-23 09:00	2013-05-23 14:25	NCAR GV (RF06) CSU Mobile Soundings Purdue Mobile Soundings NSSL Mobile	Satellite Radar Research - Aircraft	GV Flight Track Plot	GV Flight Track GV Dropsonde Points GV Dropsonde 850 hPa Winds GV Dropsonde 700 hPa Winds GV Dropsonde 500 hPa Winds	Mission Summary Mobile	The focus of today's mission was the potential for organized (possibly severe) convection in Western TX and

Tools & Links

[Home](#) [Reports](#) [Ops Products](#) [Model Products](#) [Research Products](#) [Missions](#) [Tools & Links](#) [Data Access](#) [Help](#)



MPEX Field Catalog

Mesoscale Predictability Experiment

Catalog Information

- [Catalog User Guide](#)
- [Mission Coordinator](#)

Catalog Tools

- [Report forms](#)
- [Upload documents and single images](#)
- [Upload photo album](#)

Chat Information

- [IRC Chat Access](#)
- [Help Documentation](#)
- Chat Client Configuration Instructions
 - [XChat Client for Linux and Windows](#)
 - [Colloquy Client for iOS](#)
 - [Androirc Client for Android](#)

Project Information

- [Introduction to RAF software \(PPT\)](#)
- [List of Variables](#)
- [Configuration File for Aeros](#)
- [Forecast map template](#)
- [Ops Center Staffing Schedule](#)

Project Related links

- [WRF Ensembles](#)
- [Ensemble Sensitivities](#)



Phone Numbers

Operations Center: 303-497-2019
Operations Status Message: 303-497-1040
Teleconference: 1-866-740-1260
Teleconference: 303-248-0285 (Denver Local)
Access Code: 4978635

External Webpages

[MPEX](#)
[EOL](#)
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Catalog Resources

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Request IRC Password:
catalog@eol.ucar.edu



NCAR
UCAR

IRC Chat

#GV (28) #TORERO (22) x groundbot

Happy chatting.

09:07 -
09:07 +++ gstoss-Boulder set to mode +iwsz
09:13 <bruce-gv>: volkamer-CR bl observed only 5 of 20 downward pointing minutes - clouds - bl 300m ext 10-5/m no resid aerosols no bl clouds 15 min of clouds from 4-11km
09:18 <volkamer_CR>: !replay 10
09:18 <groundbot>: incorrect usage, ask for help using 'groundbot: help replay'
09:18 <volkamer_CR>: !replay10
09:21 <schanot_GV>: interesting. Wind speed increase and shifting to the North
09:33 <JimBresch-mroc>: schanot_GV, at least the forecast was right about the winds... Presumably the airmass chemical comopostions should be different (northerlies 'cleaner' than easterlies).
09:36 <schanot_GV>: JimBresch-mroc, nothing obvious in CO so far
09:37 <schanot_GV>: wind shift occurred pretty much at the equator
09:39 <volkamer_CR>: schanot_GV: we climbed out of the terrestrial plume with our ascend to FL400
09:39 <volkamer_CR>: There was a drop in CO of about 40ppb
09:39 <JimBresch-mroc>: When you descend you will enter easterlies again.
09:46 <schanot_GV>: roger
09:48 <schanot_GV>: light chop
09:50 <JimBresch-mroc>: As the stratiform clouds to your south dissipate, low-topped convection is developing. WP3 is mostly clear, but south of there is developing convection.
09:54 <schanot_GV>: JimBresch-mroc, roger. all still looks like small low stuff in target area. Three MBL legs all below cloud base
09:55 <JimBresch-mroc>: OK, the area north and east of the ship is mostly clear.
09:56 <schanot_GV>: roger, any ship reports on the sfc winds?
09:57 <JimBresch-mroc>: The Ka'i is reporting 150 @ 7 kts
09:58 <schanot_GV>: roger
10:00 <JimBresch-mroc>: A pleasant 82 F with SST of 81 F.
10:08 <JimBresch-mroc>: schanot_GV, unfortunatley, it looks like all the stratiform cloud will be gone by the time you get to WP4. I'd like to know more about it such as altitude, depth - on satellite it looks like a liquid cloud.
10:09 <schanot_GV>: started descent to FL280 as part of Module 1
10:09 <schanot_GV>: will be descending thru some stratus
10:10 <schanot_GV>: stratus
10:11 <JimBresch-mroc>: A jump in CO with the wind shift in the descent...
10:11 <schanot_GV>: tops of stratus 2.0 km
10:11 <schanot_GV>: right here
10:12 <schanot_GV>: you're right we may be past it prior to the next descent below 280
10:12 <JimBresch-mroc>: Actually, the current stratus is a different type of cloud than the one I was talking about.
10:13 <JimBresch-mroc>: The latest MC vis shows the light gray stratus right around WP4.
10:13 <schanot_GV>: good call on wind shift. CO in a cal at start of descent. not real data yet
10:14 <schanot_GV>: my bad. wasn't watching for that. I will cancel all CO calcs during the MBL legs

Chatting

JimBresch-mroc
schanot_GV

Idlers

annav
ATMOS-Speclab
Becky_Bldr
Bill_adsGV
bruce-gv
bruning_CR
campos_cr
DaveR-RAF
dd_montzka-bldr
ffl-Bldr
groundbot
gstoss-Boulder
Hills_G-V
hsrl
hsrl_
Jose_OpsCenter
JScannell-FL
SamHall_Denver
TomBaltzer-RAF
volkamer_CR

Smilies | Colours | Translation | PasteBin | Minify URL

Menu

FTP site for “preliminary” or “field data”

- Active during the field campaign
- passwd-protected to limit access to participants only
- self-organized (planning required)
- Data removed after campaign ends
- Site deactivated after the campaign

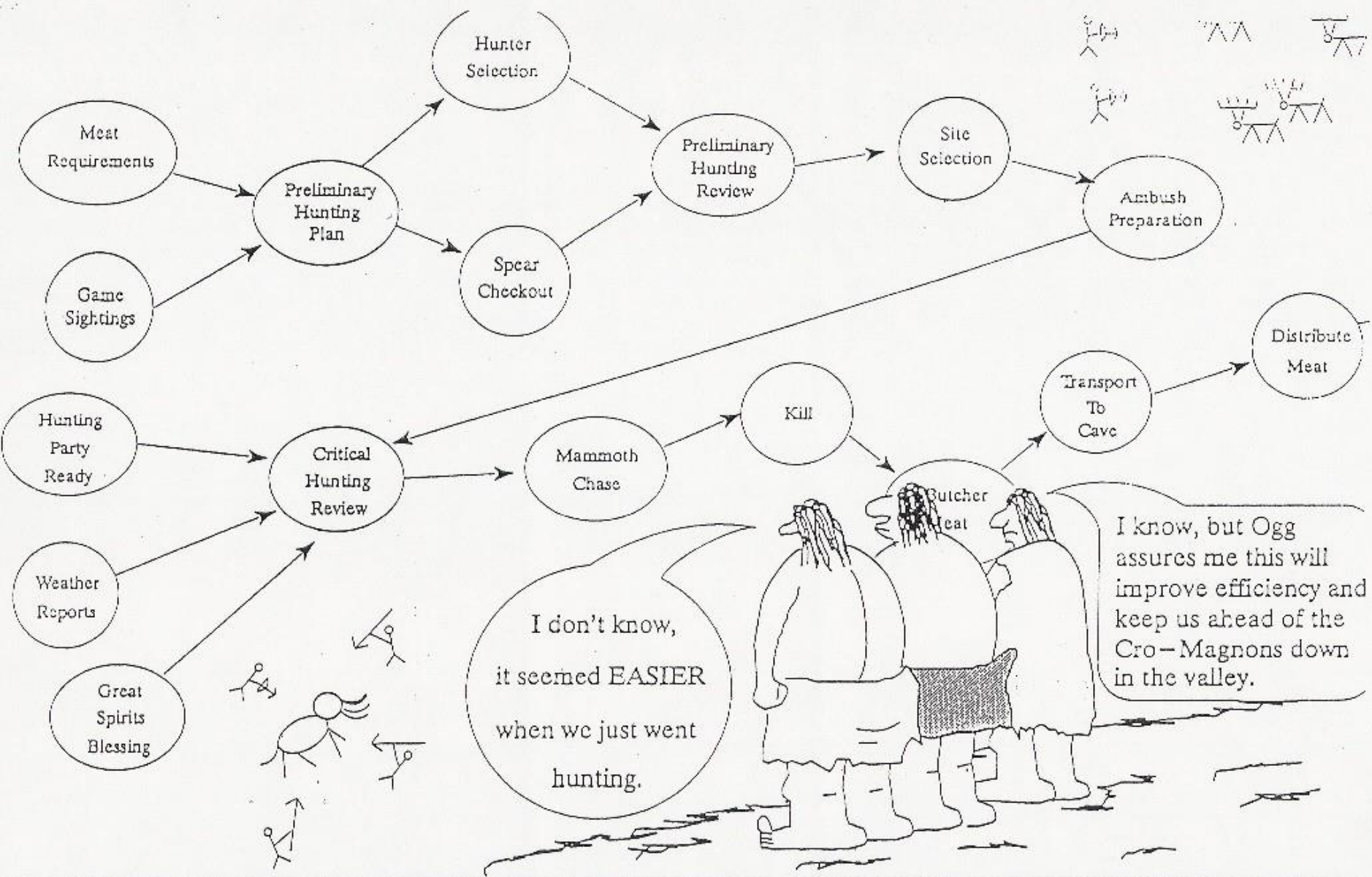
Final archive at EOL

- After the campaign, this link is redirected to the archive pages for DEEPWAVE
- Datasets to be uploaded after the campaign ends do not use field FTP site
- See instructions for Dataset submission at <http://www.eol.ucar.edu/projects/deepwave>

DEEPWAVE Field Catalog Schedule

- 2013 Dry Run Catalog will remain active
- Product List should be mostly finalized by March Meeting
- 2014 Field Catalog expected to be on-line by early May 2014
- New Products will continue to be added to the Catalog following availability in May (e.g. Research products as they come on-line)
- Several training sessions will be scheduled (including in-field)





WHY NEANDERTHAL MAN BECAME EXTINCT.