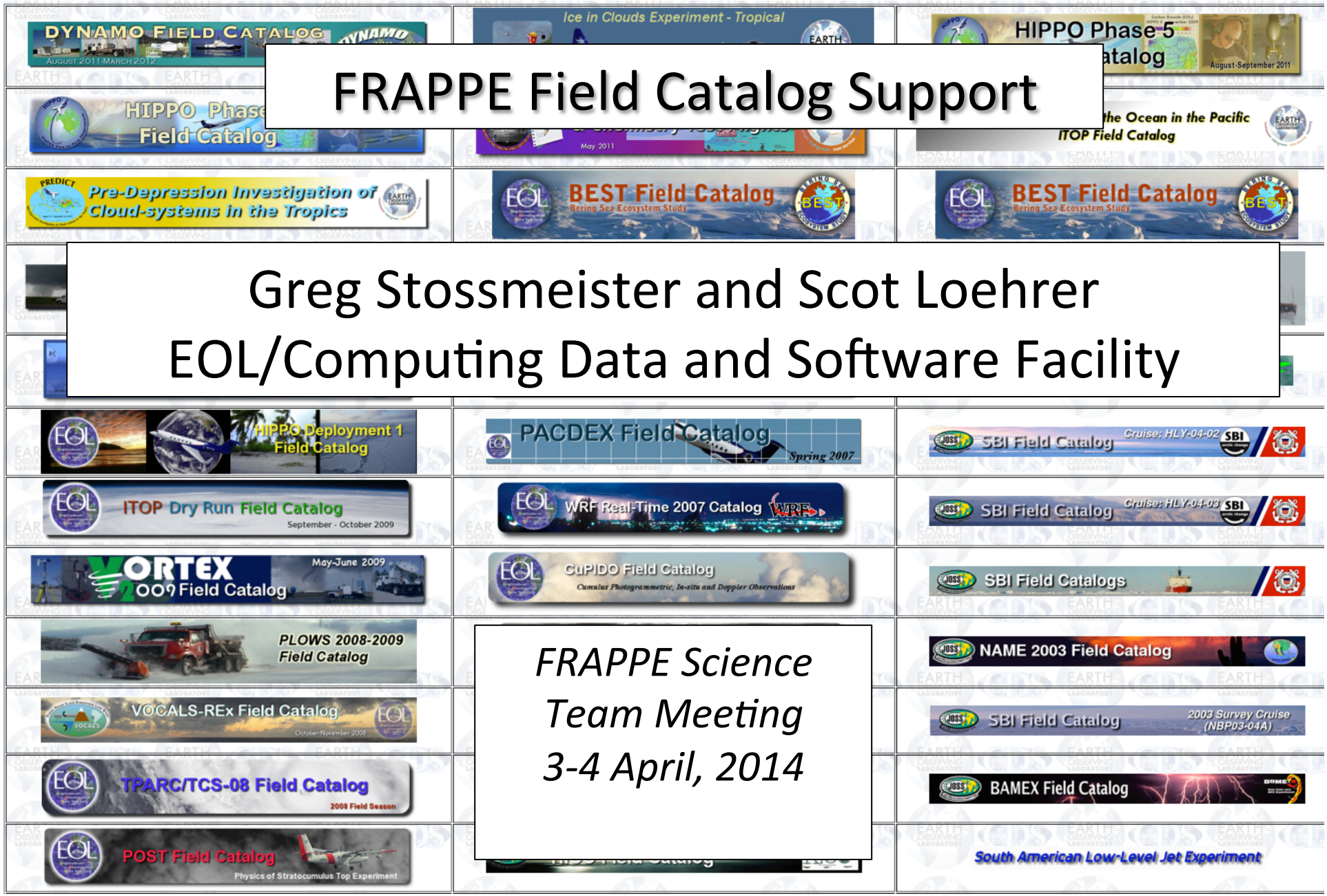


FRAPPE Field Catalog Support

Greg Stossmeister and Scot Loehrer
EOL/Computing Data and Software Facility

FRAPPE Science Team Meeting
3-4 April, 2014

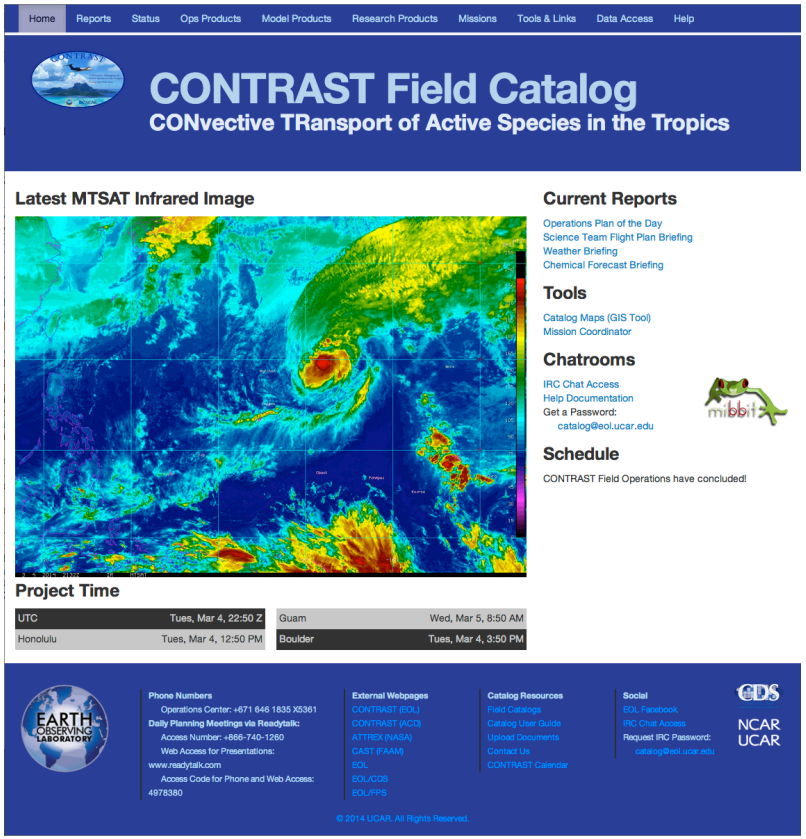
NCAR Earth Observing Laboratory

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 Planning Reports**
- **Facility Status Reports**
- **Data Analysis Products (Research)**
- **GIS-based display**
- **Operational and Forecast products**
- **Authoring Tools**
- **Web-based access**

***Long term product & report archive**



FIELD CATALOG SAMPLE PRODUCTS

NCAR Earth Observing Laboratory

Deployment, Development, Data Services

TPARC_2008 Operations Plan of the Day

Date of report(UTC): 2008/09/23 23:50
Author of report: Dick Dirks
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, 25 September(Guam,Japan LT).
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	MDY LT
Fit Plan	1200UTC 24 Sep	2200 25 Sep	0500 24 Sep
Go/no go	1300UTC 24 Sep	2300 25 Sep	0600 24 Sep
Science Brf/			
Crew alert	1300UTC 24 Sep	2300 25 Sep	0600 24 Sep
Crew brief	1400UTC 24 Sep	0000 25 Sep	0700 24 Sep
C-130 T/O	1700UTC 24 Sep	0300 25 Sep	1000 24 Sep
C130 land	0000UTC 25 Sep	1000 25 Sep	1700 24 Sep
Debrief	0100UTC 25 Sep	1100 25 Sep	1800 24 Sep

Schedule for the NRL P-3 in the next 24 hours;

Event	UTC	Guam LT	MDY LT
Science Brf	1700UTC 24 Sep	0300 25 Sep	1000 24 Sep
Crew Brief	1700UTC 24 Sep	0300 25 Sep	1000 24 Sep
NRL P-3 T/O	2000UTC 24 Sep	0600 25 Sep	1300 24 Sep
P-3 Land	0400UTC 25 Sep	1400 25 Sep	2100 24 Sep
Debrief	0500UTC 25 Sep	1500 25 Sep	2200 24 Sep

C-130 requires flight tracks 5 or more hours before take off an a go/no go decision 3.5 hours before launch. Preflight science briefing will be 3 hours in advance of each aircraft departure. Preflight operational brief will be two hours in advance of departure of each aircraft.

Driftsonde operations continue. Flight #13 is operational and i located at,16.0N, 163.5E, at 19.5km altitude, Flight #14 is operational and is located at 20.5N, 171.0E, at 21.6km altitude Flight #15 is operational and is located at 18.9N, 170.4W, at 27.1km altitude. Flight #16 was launched at 1557UTC, 23 Sept.

The Daily Planning Meeting will be at the regular time:

DPM	2300UTC 24 Sept	0900 25 Sept	1400 24 Sept

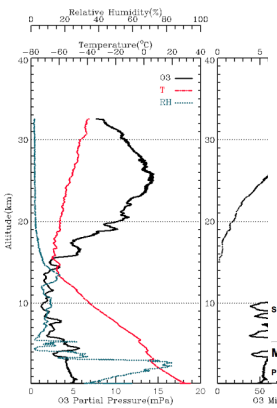
SCIENTIFIC OBJECTIVE(S):

Structure change in TCS-047 southwest of Guam

MISSION PLANS:

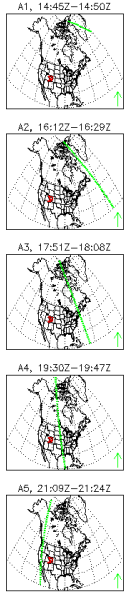
PRIMARY MISSION:

Huntsville Ozonesond



6/29/2013, 18:36:48
hu793
Surface T=32.9(°C); Surface O3=46.9(ppbv)

MLS v02.23 Ozone Data, Ascending Orbits
May 15, 2008 (2008d136)



TPARC_2008 Facilities Status Report

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

OVERVIEW:

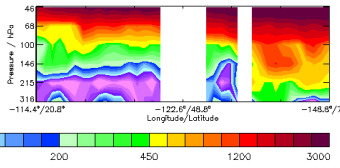
P-3 is operational. Wind lidar down, possibly up 5 Oct.

Falcon flight operations were completed yesterday.
C-130 flight operations have been completed.
Driftsonde operations have been completed.

FACILITY STATUS

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

1 NRL P-3 (Remaining flight hrs: ~20)		Comment: last flight day 5 Oct.
a.	ELDORA Radar	Comment:
b.	ONR Wind Lidar	Comment: power supply problem, repairs underway
c.	Dropsonde System	Comment:
d.	Data System	Comment:
e.	Communications	Comment:
2 USAF C-130 (Remaining flight hrs:)		Comment: Flight operations completed
a.	Dropsonde System	Comment:
b.	Data System	Comment:
c.	Communications	Comment:
d.	Radar Recording	Comment:
e.	AXBT System	Comment:
3 DLR(D-CMET) Falcon (Remaining flight hrs:)		Comment: Flight operations completed
a.	Water Vapor Lidar	Comment:
b.	Doppler Wind Lidar	Comment:
c.	Dropsonde System	Comment:
d.	Data System	Comment:
e.	Communications	Comment:
4 DOTSTAR (Remaining flight hrs: ~4)		Comment:
a.	Dropsonde System	Comment:
5. Driftsonde Operations		Comment: All operations have been completed.
a.	Dropsonde System	Comment:
b.	Gondola	Comment:
c.	Launch Site	Comment:
6 Operations Centers		Comment: All operational
a.	Monterey	Comment:



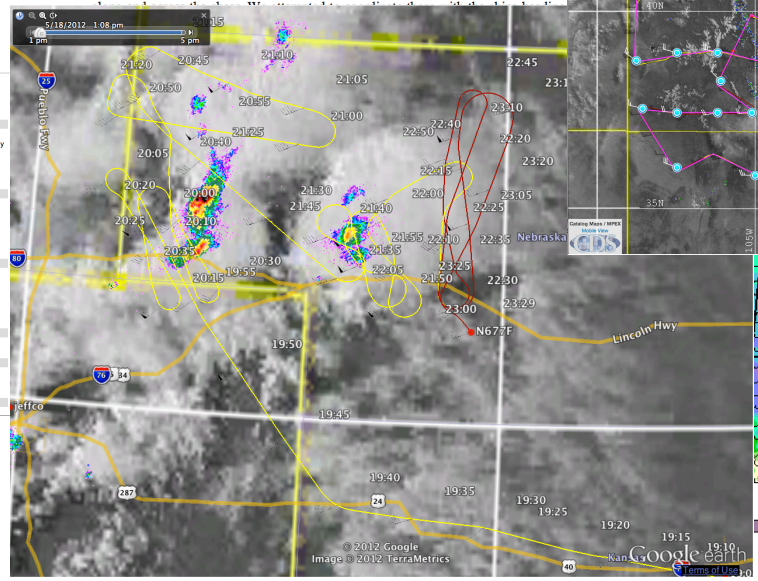
Mission Scientist Report, RICO, King Air Flight January 21st, 2005 UW King Air Flight Scientist: Stevens

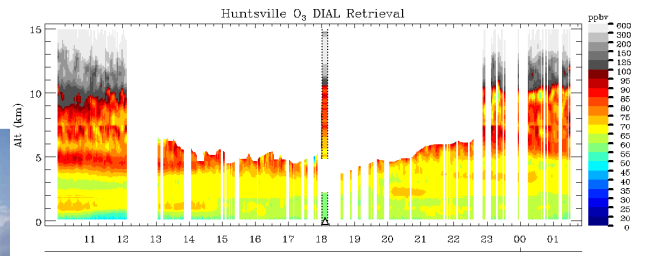
Figure 1: Images showing cloud field during flight.

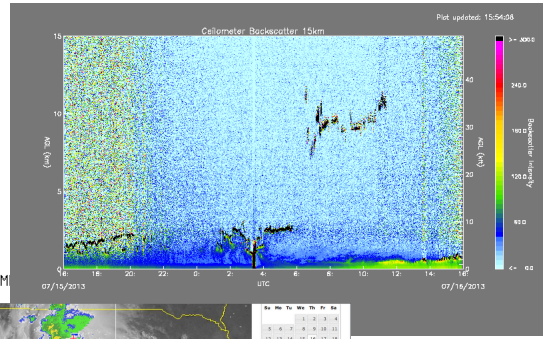
General cloud characteristics: The cloud field was rather suppressed with patches of humulus and patches of clear, with tops rarely developing above 4000'. During the day a magnificent tail developed west of Barbuda. This tail had a tremendous radar projection, but faded by the time we worked it, only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

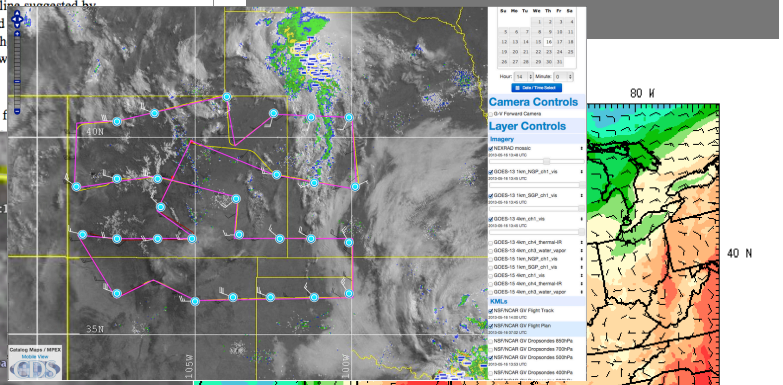
General Comments: The King Air was the only aircraft in the area as the BAE flew well to the north on this day in search of deeper clouds. The intial plan was to fly along and cross wind segments near the ship for estimating momentum fluxes by fields of shallow cumulus, following a line suggested by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

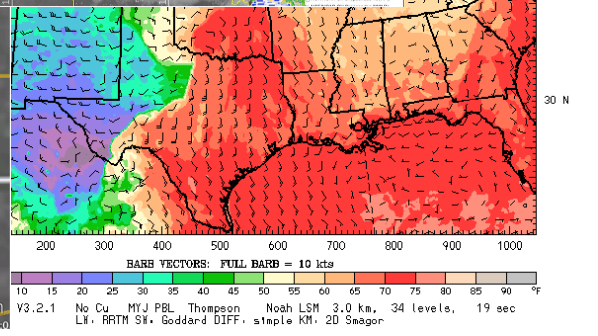
Overview of Flight Pattern: The momentum patterns were to consist of stacks of f







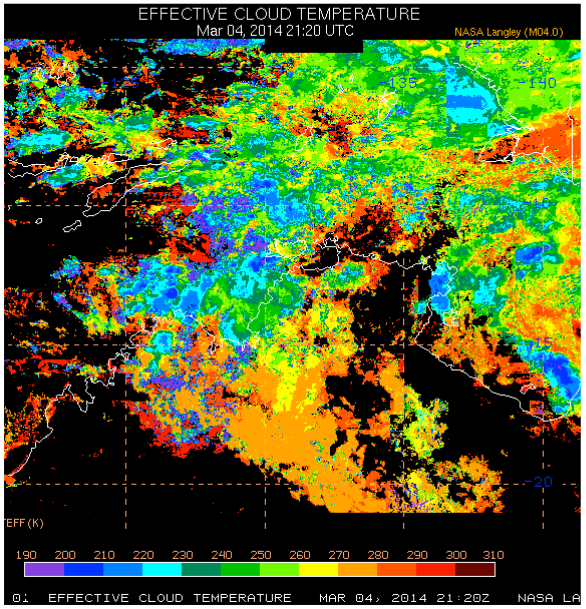




HAIC-HIWC Field Catalog

High Altitude Ice Crystals - High Ice Water Content Project

Latest Cloud Temperature



Project Time

UTC	Tues, Mar 4, 22:18 Z	Boulder	Tues, Mar 4, 3:18 PM
Darwin	Wed, Mar 5, 7:48 AM	Melbourne	Wed, Mar 5, 9:18 AM
Paris	Tues, Mar 4, 11:18 PM	Tokyo	Wed, Mar 5, 7:18 AM

Current Reports

Operations Plan of the Day
Weather Discussion

Tools

Catalog Maps (GIS Tool)

Announcements/Schedule

Communications Coordinator: Tom Ratvasky Phone: 0469 329 163

Updated at 01:30 UTC 02-Mar-2014

Announcement:

- **No flights 02-March or 04-March** - the fuel control valve is expected to be in Darwin on Monday. However, a PC board for the fuel control is also required. This board has been ordered, but the delivery date is unknown at the moment. Current best guess is the test flight on 05-March.
- The forecast for the top end has dry air persisting through Wednesday. A tropical cyclone is anticipated to develop in the Coral Sea and move west toward Cairns. Planning is being initiated to deploy the Falcon 20 towards the east coast later this week after functional flight checks are completed.
- Decision on extension will be made on 05-March after gathering terms and conditions of extending lease at Pearl hangar and understanding the status of the aircraft

Plan for 02-Mar-2014

- no more meetings - enjoy the good weather!

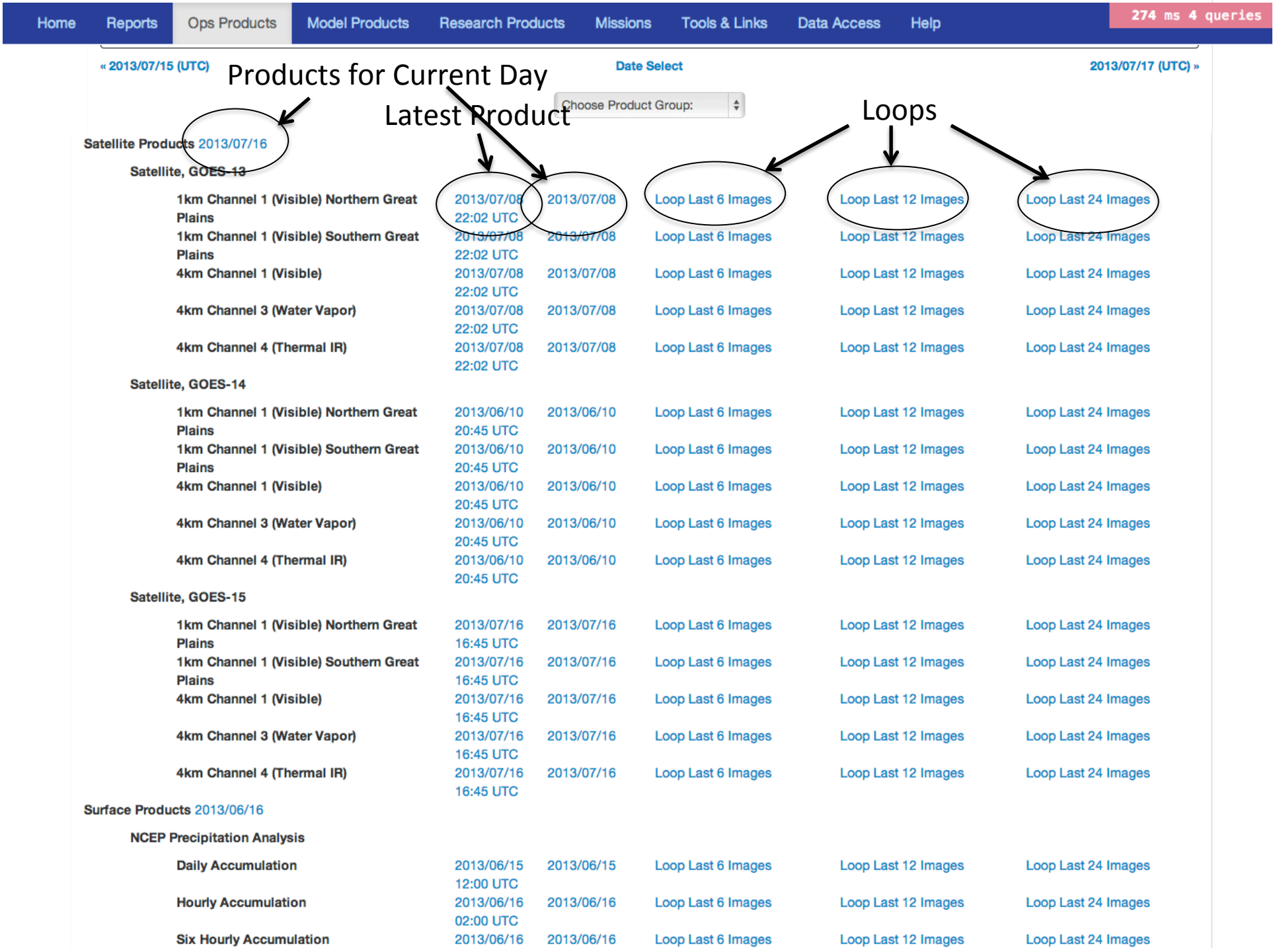
Plan for 03-Mar-2014

- 09:00 Wx brief
- 09:30 FOG meeting
- 14:00 McBride presentation, "Australian Monsoon and the MJO (Madden-Julian Oscillation)", NTRO 2nd Floor conference room

Plan for 04-Mar-2014

- 09:00 Wx brief
- 09:30 FOG meeting
- Replace fuel valve after receipt

Times posted are local Darwin time, unless otherwise noted.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Date Select
2013/07/17 (UTC) »
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Latest Product
Choose Product Group:
Loops
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
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
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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

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« 2013/06/03 (UTC) | Date Select | 2013/06/05 (UTC) »

Choose Other Product Group

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Platform →

Product Titles →

Product Times (UTC)	2013-06-04																							
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4km Channel 3 (Water Vapor)	0000 0030	0100 0111 0115 0130 0141 0145	0200 0211 0215 0230 0241 0245	0300 0330 0341 0345	0400 0411 0415 0430 0441 0445	0500 0511 0515 0530 0541 0545	0600 0630 0641 0645	0700 0711 0715 0730 0741 0745	0800 0811 0815 0830 0841 0845	0900 0930 0941 0945	1000 1011 1015 1030 1041 1045	1100 1111 1115 1130 1141 1145	1200 1230 1241 1245	1300 1311 1315 1330 1341 1345	1400 1411 1415 1430 1441 1445	1500 1530 1541 1545	1600 1611 1615 1630 1641 1645	1700 1711 1715 1730 1741 1745	1800 1830 1841 1845	1900 1911 1915 1930 1941 1945	2000 2011 2015 2030	2100 2130 2141 2145	2200 2211 2215 2230 2241 2245	2300 2311 2315 2330 2341 2345
4km Channel 4 (Thermal IR)	0000 0030	0100 0111 0115 0130 0141 0145	0200 0211 0215 0230 0241 0245	0300 0330 0341 0345	0400 0411 0415 0430 0441 0445	0500 0511 0515 0530 0541 0545	0600 0630 0641 0645	0700 0711 0715 0730 0741 0745	0800 0811 0815 0830 0841 0845	0900 0930 0941 0945	1000 1011 1015 1030 1041 1045	1100 1111 1115 1130 1141 1145	1200 1230 1241 1245	1300 1311 1315 1330 1341 1345	1400 1411 1415 1430 1441 1445	1500 1530 1541 1545	1600 1611 1615 1630 1641 1645	1700 1711 1715 1730 1741 1745	1800 1830 1841 1845	1900 1911 1915 1930 1941 1945	2000 2011 2015 2030	2100 2130 2141 2145	2200 2211 2215 2230 2241 2245	2300 2311 2315 2330 2341 2345
Satellite, GOES-14																								
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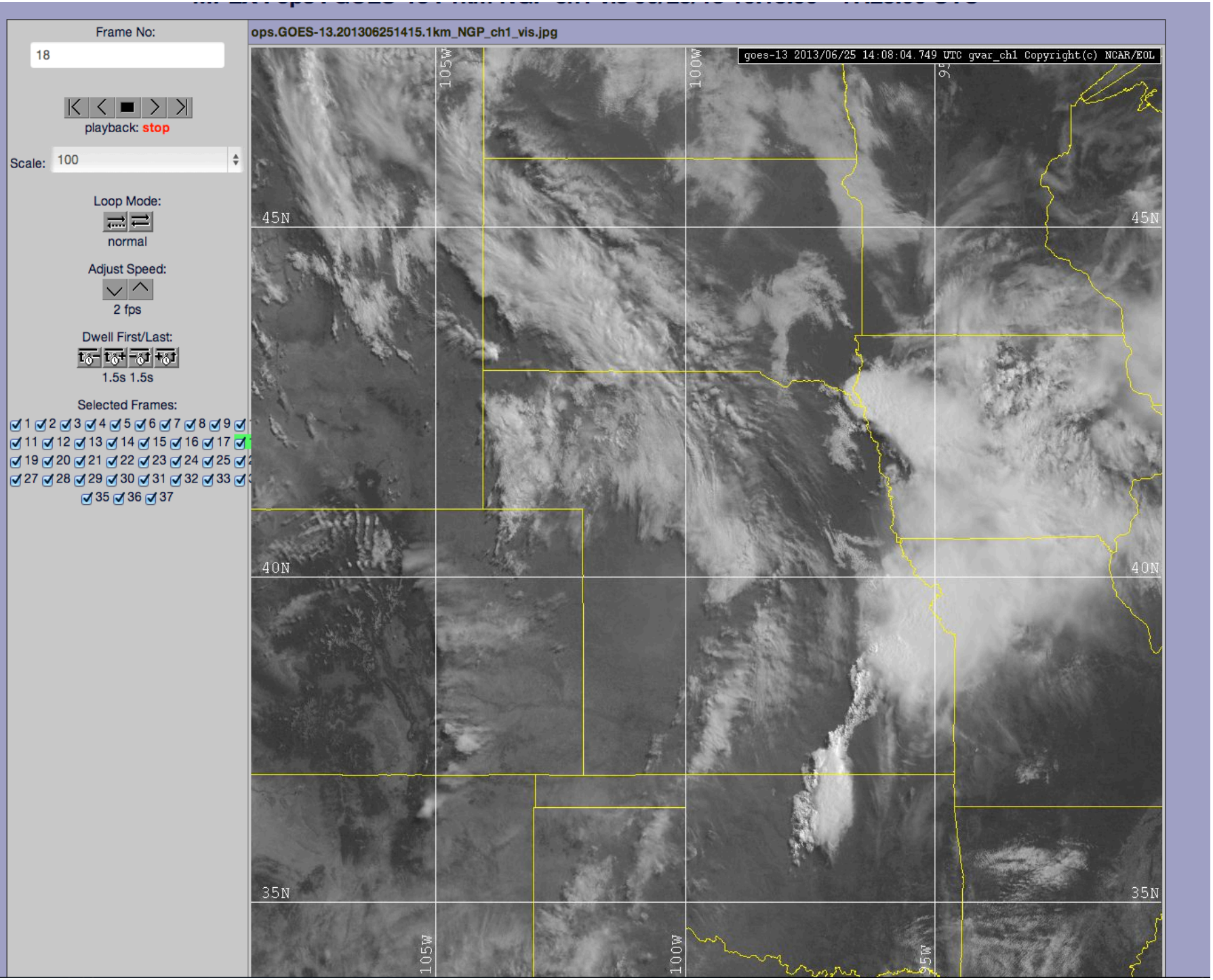
4km Channel 3 (Water Vapor)	0015 0032 0045	0102 0115 0145	0202 0215 0232 0245	0315 0332 0345	0402 0415 0432 0445	0502 0515 0532 0545	0615 0632 0645	0702 0715 0732 0745	0802 0815 0832 0845	0915 0932 0945	1002 1015 1032 1045	1102 1115 1132 1145	1215 1232 1245	1302 1315 1332 1345	1402 1415 1432 1445	1515 1532 1545	1602 1615 1632 1645	1702 1715 1732 1745	1815 1832 1845	1915 1932 1945	2002 2015 2032 2045	2115 2132 2145	2202 2215 2232 2245	2302 2315 2332 2345
4km Channel 4 (Thermal IR)	0015 0032 0045	0102 0115 0145	0202 0215 0232 0245	0315 0332 0345	0402 0415 0432 0445	0502 0515 0532 0545	0615 0632 0645	0702 0715 0732 0745	0802 0815 0832 0845	0915 0932 0945	1002 1015 1032 1045	1102 1115 1132 1145	1215 1232 1245	1302 1315 1332 1345	1402 1415 1432 1445	1515 1532 1545	1602 1615 1632 1645	1702 1715 1732 1745	1815 1832 1845	1915 1932 1945	2002 2015 2032 2045	2115 2132 2145	2202 2215 2232 2245	2302 2315 2332 2345

« 2013/06/03 (UTC) | Date Select | 2013/06/05 (UTC) »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goes-13 2013/06/25 14:08:04.749 UTC gvar_ch1 Copyright(c) NCAR/EOL
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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
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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
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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
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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

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 precipitat	Run Time:	Analysis	Loop last 6 Analyses	Loop All Forecast Periods	TODO: d(prog)/dt

NCEP GFS Forecast

Product Times (UTC)	2013-06-15								2013-06-16								2013-06-17							
	0	3	6	9	12	15	18	21	0	3	6	9	12	15	18	21	0	3	6	9	12	15	18	
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	

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

Run Time: | Analysis | Loop last 6 Analyses | Loop All Forecast Periods | TODO: d(prog)/dt

NCEP N …06/15

Run Time: | Analysis | Loop last 6 Analyses | Loop All Forecast Periods | TODO: d(prog)/dt

NCEP R …6/16

Run Time: | Analysis | Loop last 6 Analyses | Loop All Forecast Periods | TODO: d(prog)/dt

MPEX Field Catalog

Mesoscale Predictability Experiment

Reports » 2013-10-18

« Previous Day (UTC) Choose Date (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

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).

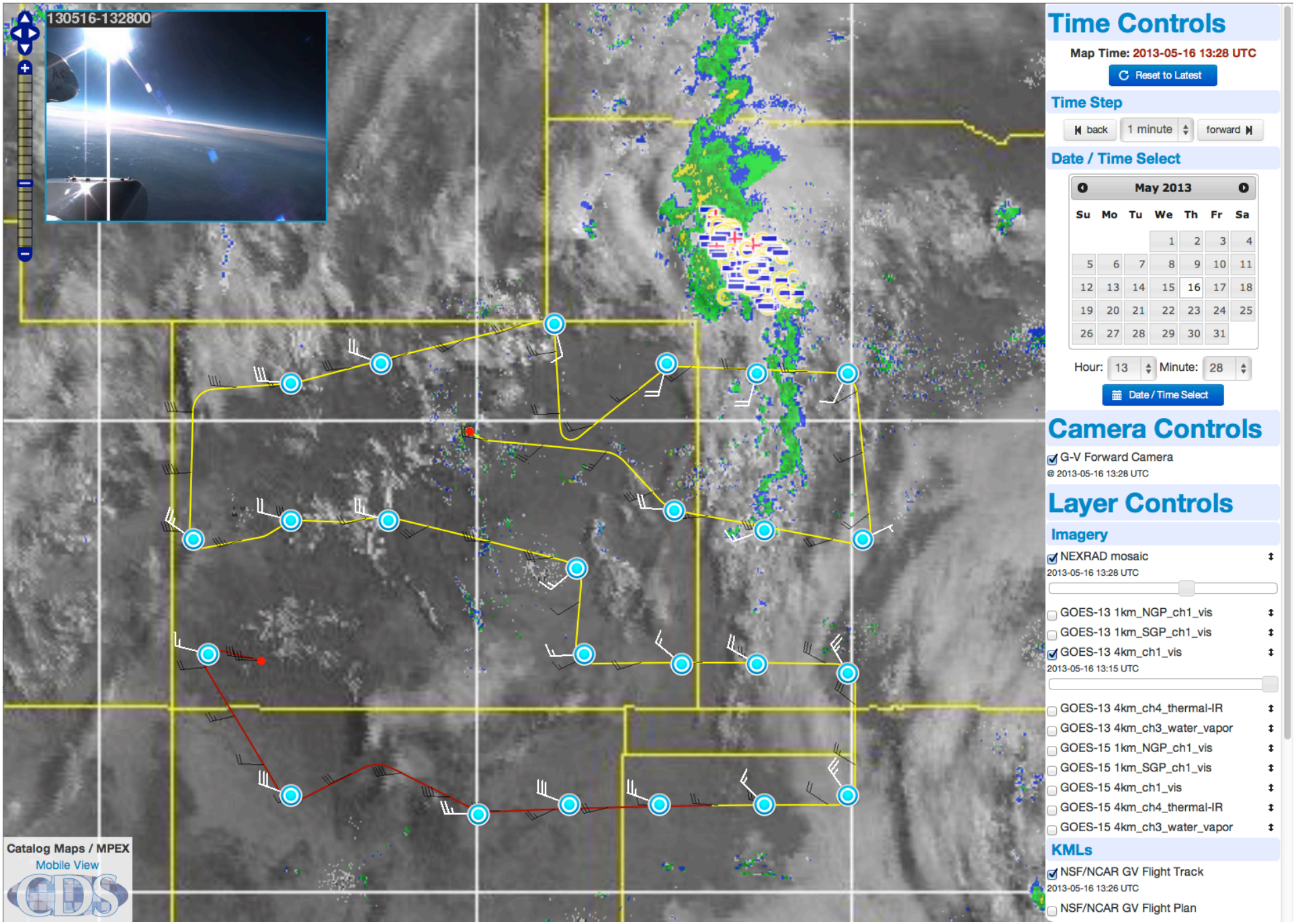
DAY 2 (Tomorrow) Update:

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).

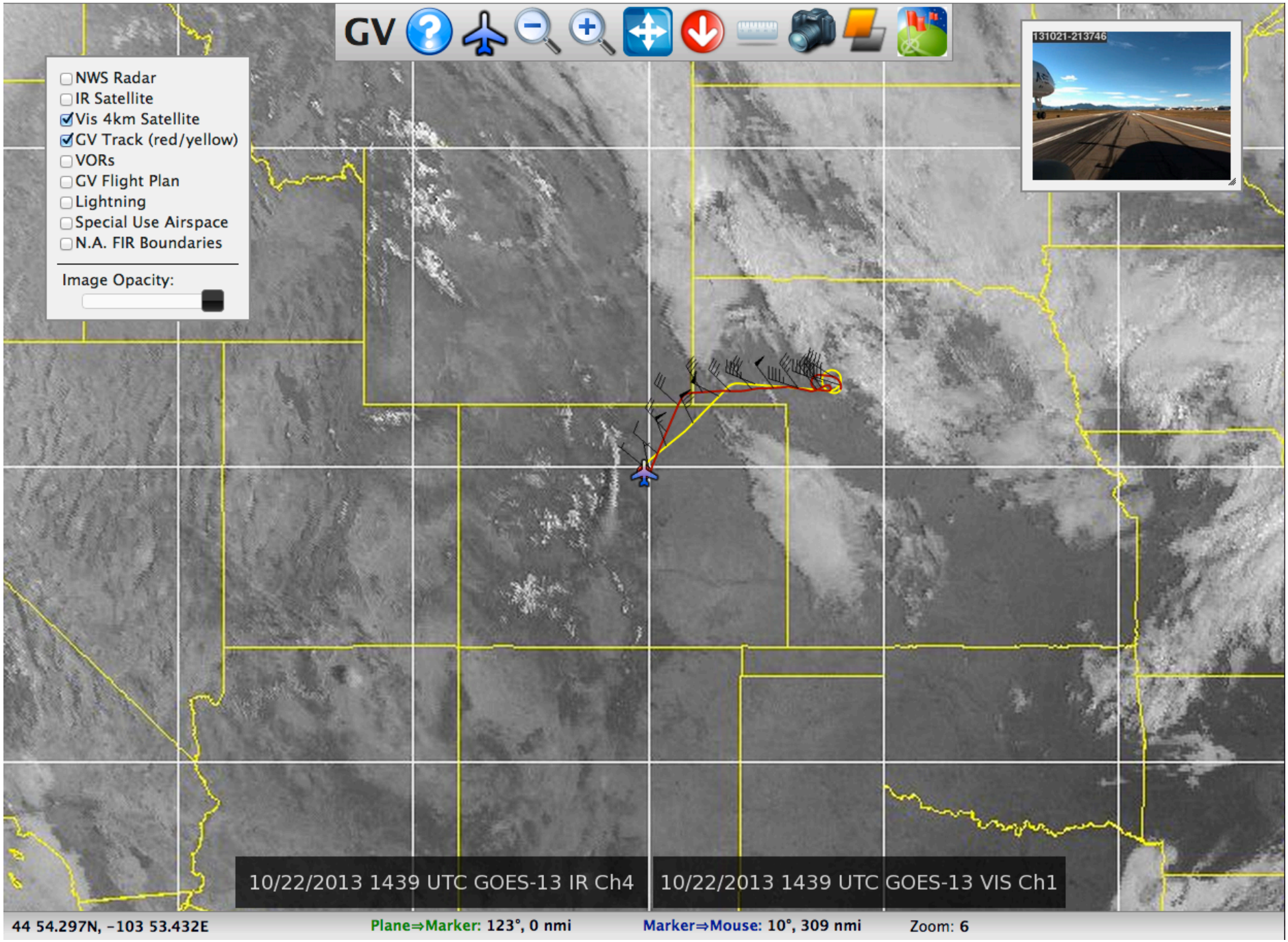
Longterm Outlook:

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...

Catalog Maps

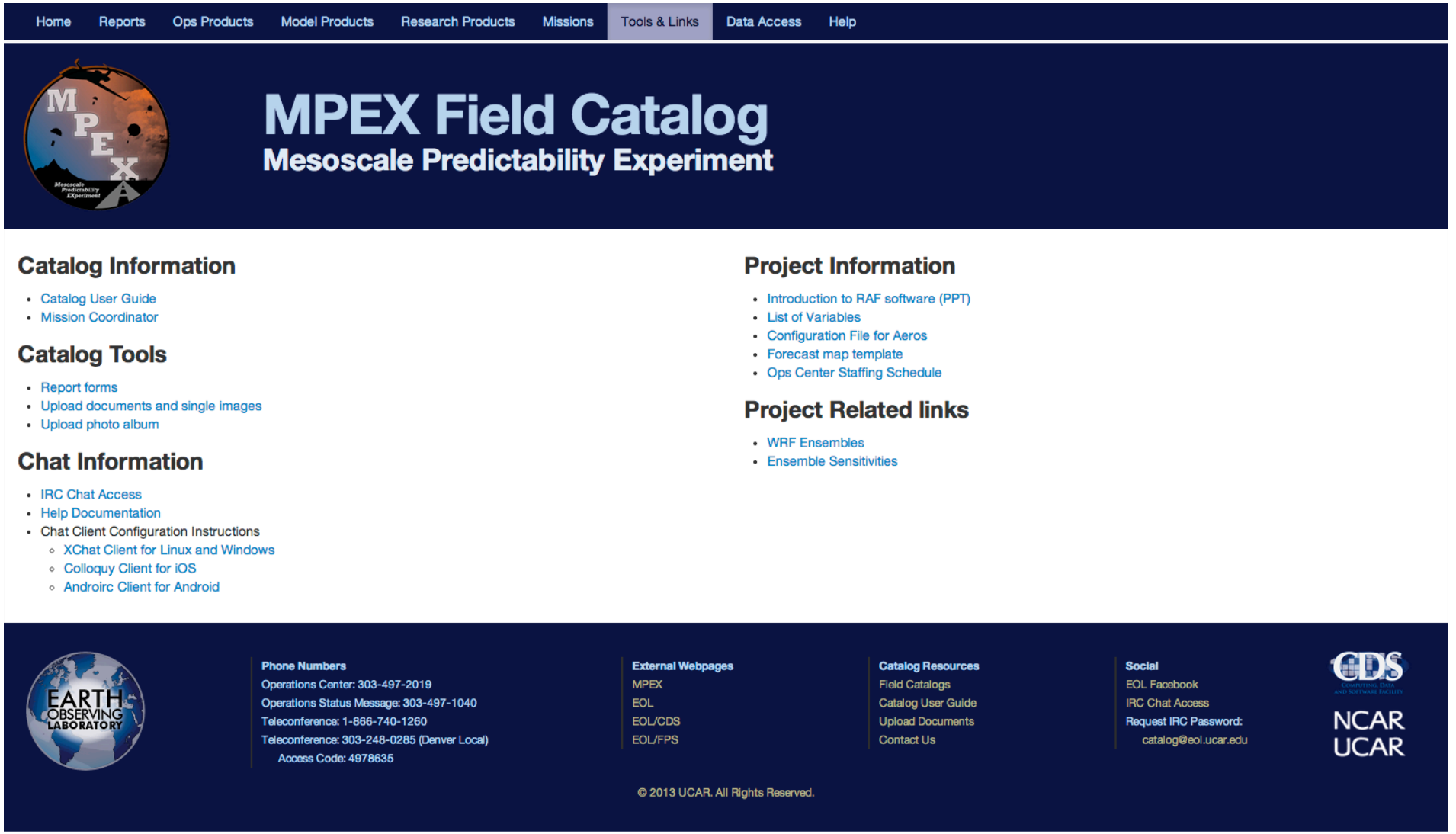


Mission Coordinator Display



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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List of Variables
Configuration File for Aeros
Forecast map template
Ops Center Staffing Schedule
Project Related links
WRF Ensembles
Ensemble Sensitivities
EARTH OBSERVING LABORATORY
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
Contact Us
Social
EOL Facebook
IRC Chat Access
Request IRC Password:
catalog@eol.ucar.edu
CDS
NCAR
UCAR
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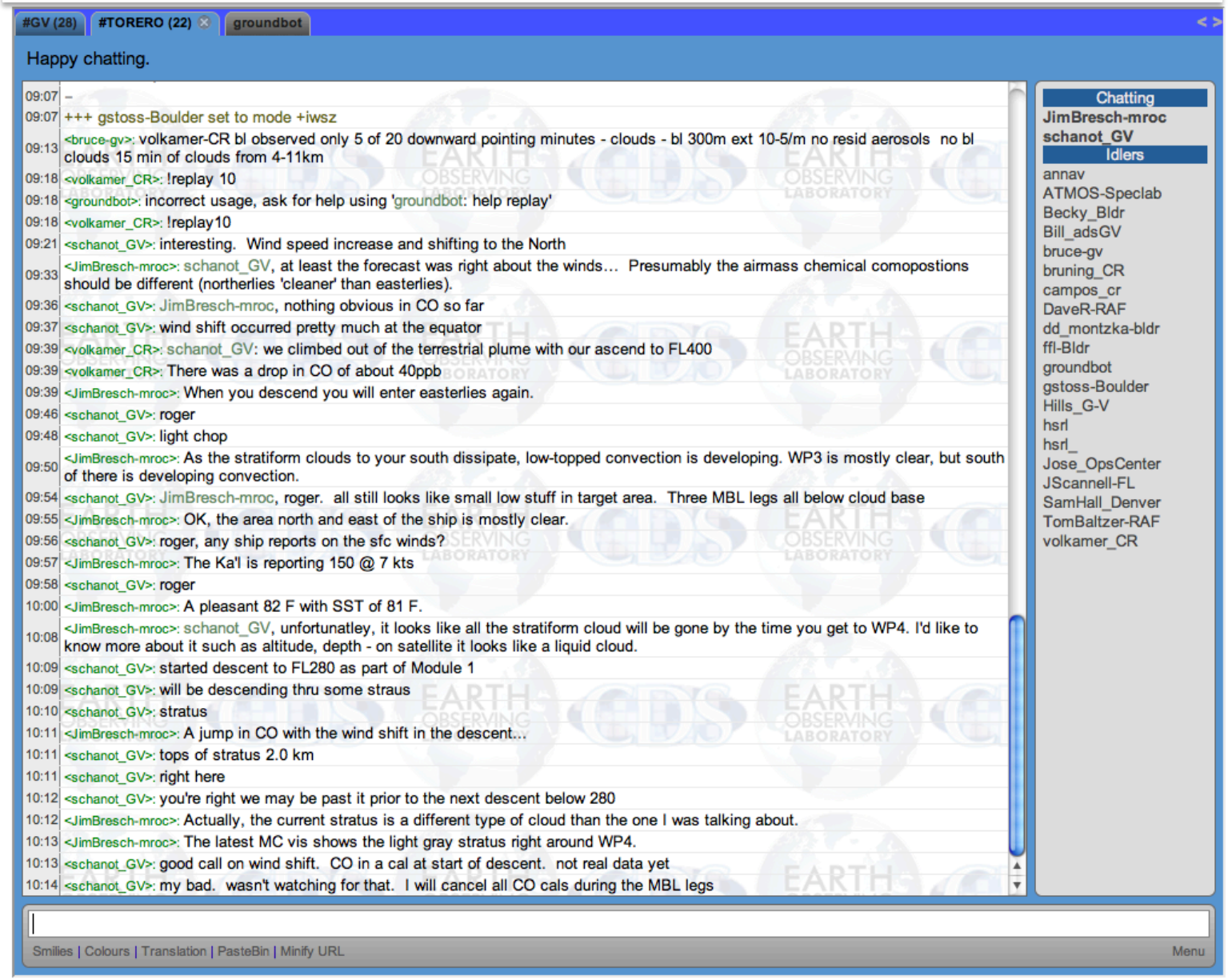
IRC Chat


#GV (28)
#TORERO (22)
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'l 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 straus
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 cals 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

FRAPPE Field Catalog Schedule

- Need to get a product list together (Google Docs)
- Field Catalog expected to be on-line by June 20
  http://catalog.eol.ucar.edu/frappe
- New Products will continue to be added to the Catalog following availability in June (e.g. Research products as they come on-line)
- Several training sessions will be scheduled late June/early July

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