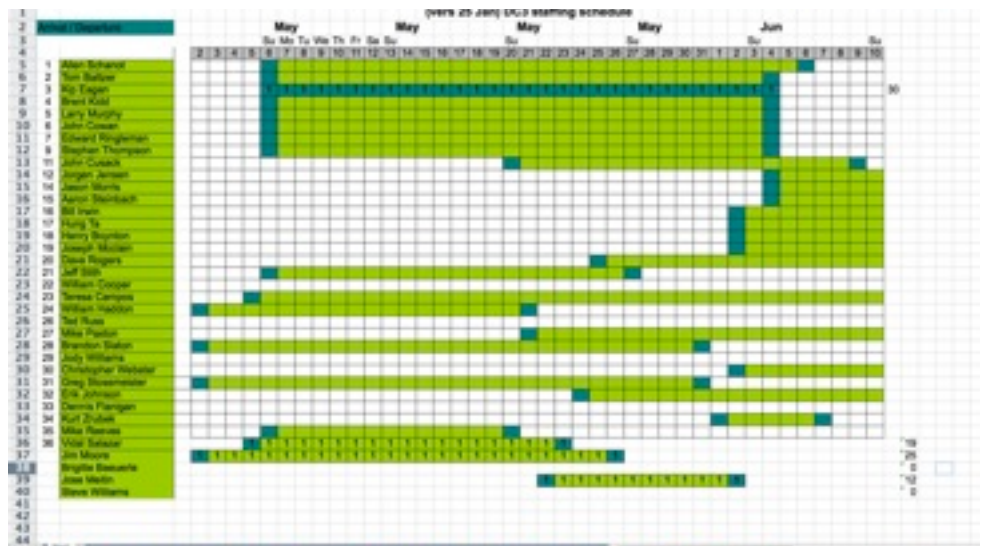




DC3 Calendars



DC8 Schedule



GV Schedule

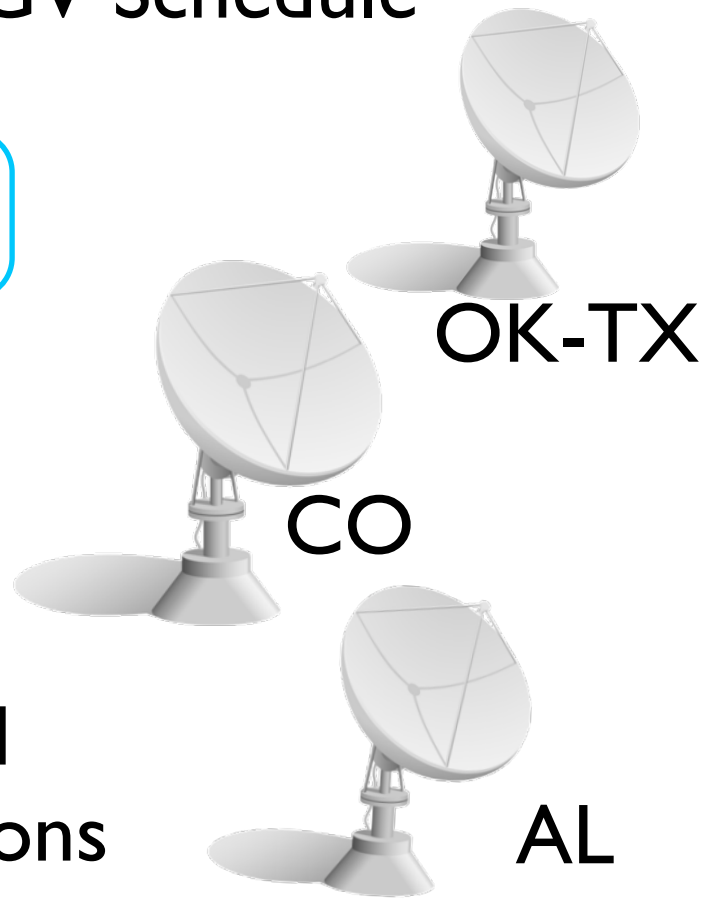
Falcon Schedule

Date	Thu 24 May	Fri 25 May	Sat 26 May	Sun 27 May	Mon 28 May	Tue 29 May	Wed 30 May	Thu 31 May	Fri 1 Jun	Sat 2 Jun	Sun 3 Jun	Mon 4 Jun	Tue 5 Jun	Wed 6 Jun	Thu 7 Jun	Fri 8 Jun	Sat 9 Jun	Sun 10 Jun	Mon 11 Jun	Tue 12 Jun	Wed 13 Jun	Thu 14 Jun	Fri 15 Jun	Sat 16 Jun	Sun 17 Jun
Name					lights begin																			lights end	
Aufhof (WS)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Transfer																									X
Hennel (Aerosol)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Humbler (PS)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Lichtenstern (Transponder)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Transfer back																									
Minkin (Aerosol, PS)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Transfer																									
Pro Minkin (Aerosol)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Raifer (WS, track, GPS)											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rolger (WS, track, GPS)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Scheibe (Trace gases)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Schleger (PS)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Winstler (Aerosol)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Transfer back																									
Zierke (Trace gases)						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
N.N. (Transponder)			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
(Raz) (GPS)?			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total	2	4	12	12	12	13	13	13	13	13	13	14	14	13	13	13	12	12	12	11	11	10	9	9	4

LMA's



Ground Observations



May 2012



May 2012

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	RF01: Climb to 45kft and back 1	RF02: G-V test flight 2	3	RF03: G-V test flight 4	5
6	RF04: Ferry to SLN 7	8	9	RF05: Shakedown to OK or CO 10	11	RF06: Shakedown to AL 12
13	Flight to CO storm 14	15	Flight to CO storm 16	Downwind Flight 17	Status and brief science meeting 18	19
Flight to OK storm 20	Downwind Flight 21	22	23	Flight to OK storm 24	Status and brief science meeting 25	26
27	Flight to AL storm 28	29	Flight to AL storm 30	Downwind Flight 31	Status and brief science meeting 1	2

May 2012

May 7

GV Ferry to Salina
 Link to flight [path](#)
[Weather](#)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	RF01: Climb to 45kft and back	RF02: G-V test flight	3	RF03: G-V test flight	5
6	RF04: Ferry to SLN	8	9	RF05: Shakedown to OK or CO	11	RF06: Shakedown to AL
13	Flight to CO storm	15	Flight to CO storm	Downwind Flight	Status and brief science meeting	19
Flight to OK storm	Downwind Flight	22	23	Flight to OK storm	Status and brief science meeting	26
27	Flight to AL storm	29	Flight to AL storm	Downwind Flight	Status and brief science meeting	2

May 2012

May 7

GV Ferry to Salina
Link to flight [path](#)
[Weather](#)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	RF01: Climb to 45kft and back	RF02: G-V test flight	3	RF03: G-V test flight	5
6	RF04: Ferry to SLN	8	9	RF05: Shakedown to OK or CO	11	RF06: Shakedown to AL
13	Flight to CO storm	15	Flight to CO storm	Downwind Flight	Status and brief science meeting	19
Flight to OK storm	Downwind Flight	22	23	Flight to OK storm	Status and brief science meeting	26
27	Flight to AL storm	29	Flight to AL storm	Downwind Flight	Status and brief science meeting	2

Planning Tool (pre-campaign)

Post-campaign analysis tool (together with the data catalog)

Source of information

Requires the contribution of all participants

DC3 Logistics Website



DC3 – Deep Convective Clouds & Chemistry Experiment

What's New?

- **DC3 - SEAC4RS Science Team Meeting - Feb. 21-23, 2012 - Boulder, Colorado**

Project Description

The Deep Convective Clouds and Chemistry Project (DC3) field campaign investigates the impact of deep, midlatitude continental convective clouds, including their dynamical, physical, and lightning processes, on upper tropospheric (UT) composition and chemistry. The DC3 field campaign makes use of extensively instrumented aircraft platforms and ground-based observations. The NSF/NCAR Gulfstream-V (GV) aircraft is the primary platform to study the high altitude outflow of the storms, and is instrumented to measure a variety of gas-phase species, radiation, and cloud particle characteristics. The GV is also documenting the downwind chemical evolution of the convective plume.

The NASA DC-8 aircraft

Logistics



Salina, Kansas Municipal Airport
(Click Image for Full Resolution)

Dry Run / Instrument Test - Aircraft logistics website (*not recently updated*)

DC3 Investigators Logistics Survey

Site Survey: Aerial View of SLN

DC3 Site Survey Report

Hotel Information for Salina Kansas
- **Updated 9 Jan 2012**

XChat Guidelines

DC3 Operations Twitter



Meetings

<http://www.eol.ucar.edu/projects/dc3/>

DC3 Logistics Website



What's New?

- **DC3 - SEAC4RS Science Team Meeting - Feb. 21-23, 2012 - Boulder, Colorado**

Project Description

The Deep Convective Clouds and Chemistry Project (DC3) field campaign investigates the impact of deep, midlatitude continental convective clouds, including their dynamical, physical, and lightning processes, on upper tropospheric (UT) composition and chemistry. The DC3 field campaign makes use of extensively instrumented aircraft platforms and ground-based observations. The NSF/NCAR Gulfstream-V (GV) aircraft is the primary platform to study the high altitude outflow of the storms, and is instrumented to measure a variety of gas-phase species, radiation, and cloud particle characteristics. The GV is also documenting the downwind chemical evolution of the convective plume.

The NASA DC-8 aircraft

Logistics



Salina, Kansas Municipal Airport
(Click Image for Full Resolution)

Dry Run / Instrument Test - Aircraft logistics website (*not recently updated*)

DC3 Investigators Logistics Survey

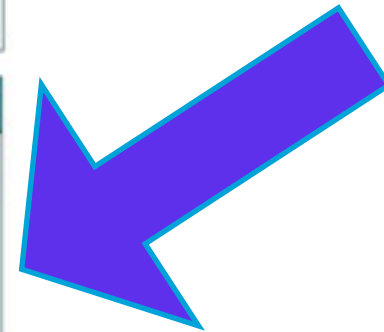
Site Survey: Aerial View of SLN
DC3 Site Survey Report
Hotel Information for Salina Kansas
- **Updated 9 Jan 2012**

XChat Guidelines

DC3 Operations Twitter



Meetings



<http://www.eol.ucar.edu/projects/dc3/>

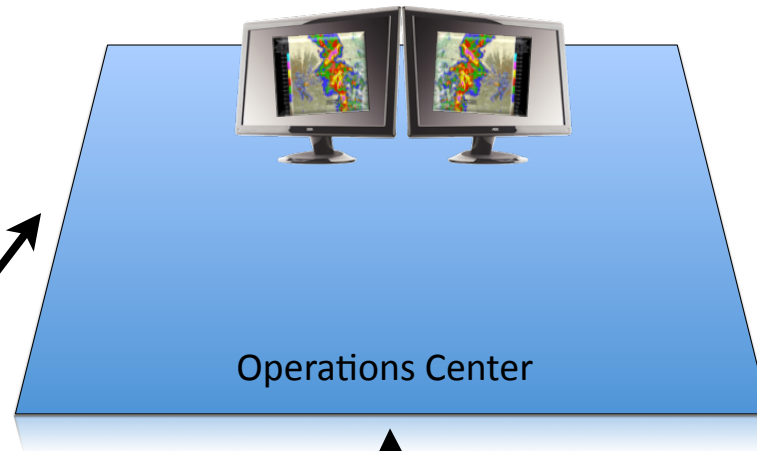
Communications between groups

DC3 Participating observational facilities



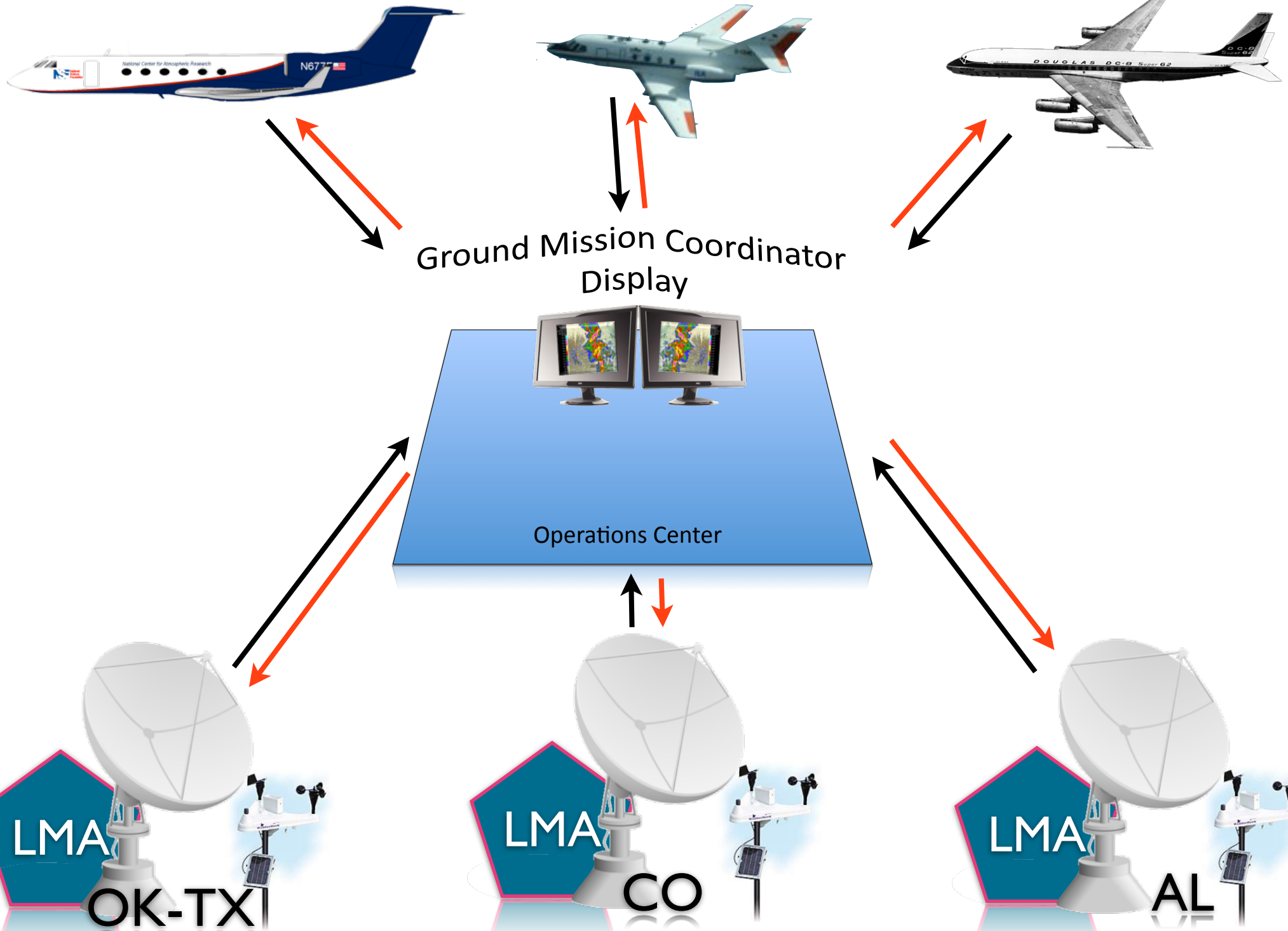


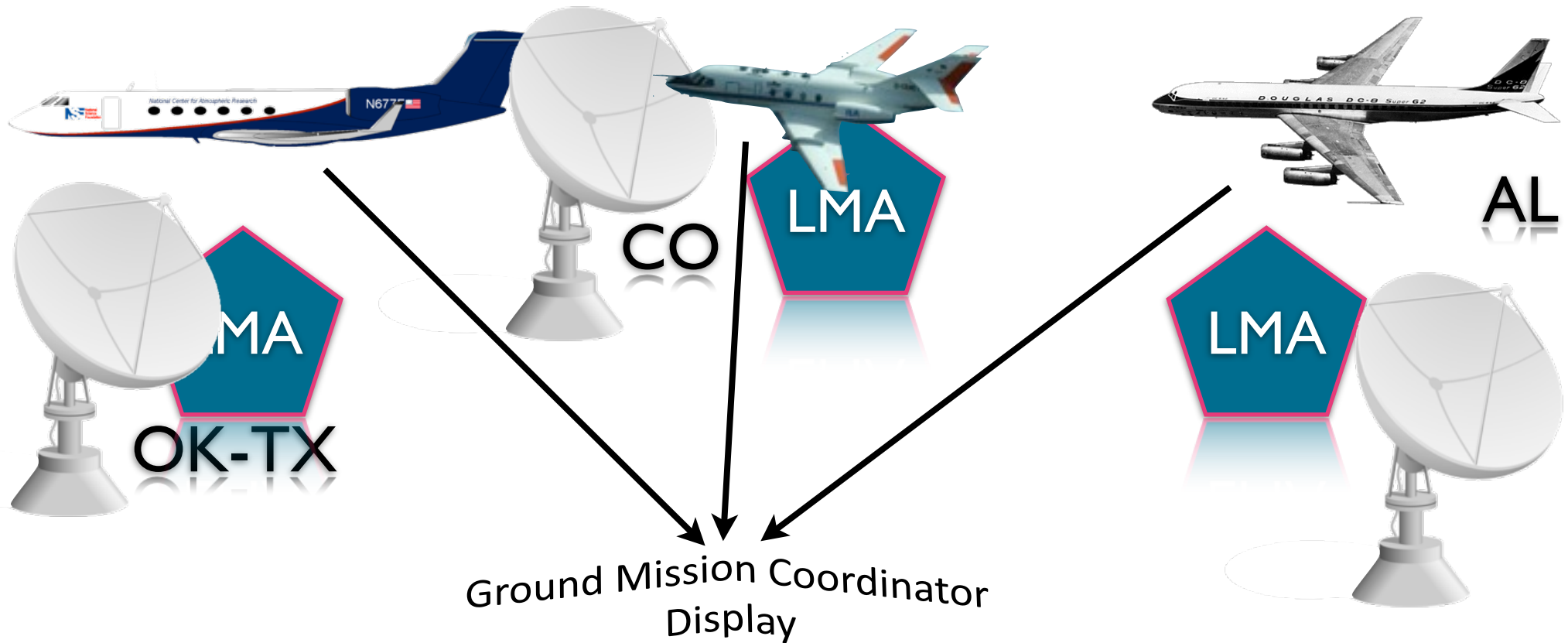
Ground Mission Coordinator Display

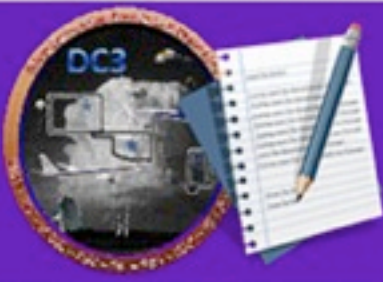


Operations Center









Deep Convective Clouds & Chemistry Test Flights

May 2011



Catalog Home

Daily Reports

Operational Products

Radar Products

Model/Forecast Products

Research Products

Missions

Tools & Links

Data Access

Help ?

Boulder, CO: Mon, Feb 20, 1:05 PM

Norman, OK: Mon, Feb 20, 2:05 PM

Huntsville, AL: Mon, Feb 20, 2:05 PM

UTC: Mon, Feb 20, 7:05 PM

Current Reports:

Operations Plan of the Day

GV Status

Weather Discussion



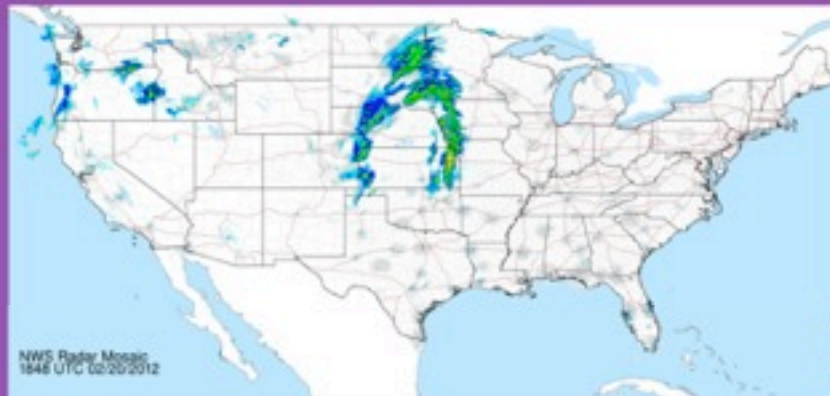
Catalog Earth Tool



Mission Coordinator Display

Way Point Calculator

Latest Radar



Latest CHILL radar

Additional Imagery

Latest 4 hours GOES-13 Visible

Latest 4 hours G-13 IR

Latest 2 hours G-13 Ch3 Water Vapor

DC-3 flight tests have concluded

General Information:

DC3 Times Home Page

DC3 Data Management

Teleconference Access Number:

1-866-740-1260 (US toll free)

Access Code: 4978380

RAF Status Message

(303) 497-1040

Colorado Domain





Catalog Earth Tool



Mission Coordinator Display

Way Point Calculator

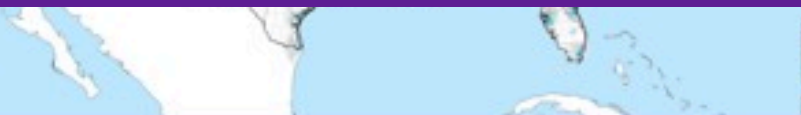
IRC Chat instant access



Help Documentation

need password? :
gstoss at ucar.edu

NWS Radar Mosaic
1846 UTC 02/20/2012



Latest CHILL radar

Additional Imagery

Latest 4 hours GOES-13 Visible
Latest 4 hours G-13 IR
Latest 2 hours G-13 Ch3 Water Vapor

**DC-3 flight tests
have concluded**

1-800-740-1200 (US toll free)
Access Code: 4978380

RAF Status Message
(303) 497-1040

Colorado Domain



Comments



Catalog Earth Tool



Mission Coordinator Display

Way Point Calculator

IRC Chat instant access



Help Documentation

need password? :
gstoss at ucar.edu

NWS Radar Mosaic
1846 UTC 02/20/2012



1-800-740-1200 (US toll free)
Access Code: 4978380

RAF Status Message

TORERO Google Earth Display

http://catalog.eol.ucar.edu/torero_catalog_sarah

TORERO Available Layers

Go Products

Research

- N677F_flight_track Top

Kaimimoana

- ship_track Top

Hakuromaru

- ship_track Top

Open Products

Goes-13

- ch1_vis_galapagos Top
- ch1_vis_zoom Top
- ch2_shortwave-ir_galapagos Top
- ch3_water_vapor_galapagos Top
- ch4_2_diff_galapagos Top
- ch4_thermal-IR_galapagos Top

Goes-12

- ch1_vis_chile Top
- ch1_vis_galapagos Top
- ch2_shortwave-ir_chile Top
- ch2_shortwave-ir_galapagos Top
- ch3_water_vapor_chile Top
- ch3_water_vapor_galapagos Top
- ch4_2_diff_chile Top
- ch4_thermal-IR_chile Top
- ch4_thermal-IR_galapagos Top

Grid Status Bar Overview Map Road Labels Border Labels

May-15, 2012 13:55 UTC

DC8 Falcon GV

LMA CO

OPS Center

Google

The selected data/time display is 2012-02-20 19:05 UTC
Showing the latest data from selected datasets. The latest visible file ends at 2012-02-20 19:05:59 UTC

Date/Time Select

FEBRUARY 2012

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	

Hour: 19 Min: 05

Submit Display Latest Data

Create Loop:
02 hrs
 forward
 Back
Create Loop Exit Loop

HELP

Time Step Controls

Back 30 min Forward



Catalog Earth Tool



Mission Coordinator Display

Way Point Calculator

IRC Chat instant access



Help Documentation

need password? :
gstoss at ucar.edu

NWS Radar Mosaic
1846 UTC 02/20/2012



Latest CHILL radar

Additional Imagery

Latest 4 hours GOES-13 Visible
Latest 4 hours G-13 IR
Latest 2 hours G-13 Ch3 Water Vapor

**DC-3 flight tests
have concluded**

1-800-740-1200 (US toll free)
Access Code: 4978380

RAF Status Message
(303) 497-1040

Colorado Domain



Comments



Catalog Earth Tool



Mission Coordinator Display

Way Point Calculator

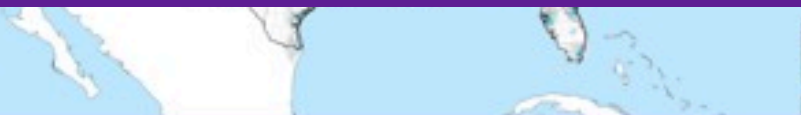
IRC Chat instant access



Help Documentation

*need password? :
gstoss at ucar.edu*

NWS Radar Mosaic
1846 UTC 02/20/2012



Latest CHILL radar

Additional Imagery

Latest 4 hours GOES-13 Visible
Latest 4 hours G-13 IR
Latest 2 hours G-13 Ch3 Water Vapor

**DC-3 flight tests
have concluded**

1-800-740-1200 (US toll free)
Access Code: 4978380

RAF Status Message
(303) 497-1040

Colorado Domain



Comments



Catalog Earth Tool



Mission Coordinator Display

Way Point Calculator

IRC Chat instant access



Help Documentation

*need password? :
gstoss at ucar.edu*

Safari File Edit View History Bookmarks Window Help

EOL Flight Data

http://www.eol.ucar.edu/flight_data/

EOL/TORERO FIELD CATALOG - 1... DC3 Home Page EOL Flight Data

Liberia Pamira

GV ? [Airplane] [Zoom Out] [Zoom In] [Pan] [Download] [Screenshot] [Camera] [Layers]

120219-225916

La Fortuna Muelle de San Carlos Pital Puerto Viejo de Sarapiquí La Virgen

La Tigra Florencia Zarcerro

San Ramón Naranjo Grecia

San Isidro

Heredia

San José San Antonio San Diego San Miguel Cart

Desmonte La Ganta

Pedales

San Ignacio Acosta

Paraso Oroqui

Jicaral Lepanto Puntarenas Boca de Barmanca

Chomes Puntarenas

Punta de Plancha de Montes de Oro

Esparza

Santiago

San Pedro

Santiago

Tarcoles

Herradura Jacó

Paqueta

Playa del Carmen

San Marcos de Tarrazú

Ouepos

Paraso Oroqui

NWS Radar
 IR Satellite (Costa Rica)
 Vis Satellite (Costa Rica)
 Rain Forecast Model
 N.A. FIR Boundaries
 Pacific FIR Boundaries
 Track
 Flight Plan

Image Opacity: [Slider]

10 29.089N, -84 45.55E **Plane⇒Marker: 332°, 2141 nmi** **Marker⇒Mouse: 143°, 209**

1-800-740-1200 (US Toll Free)
Access Code: 4079380

Safari File Edit View History Bookmarks Window Help

Mibbit


http://embed.mibbit.com/?server=rdoc.guest.ucar.edu/K3AK286668&channel=K2JCV_K2JDC3-AL_K2JDC3-CO_K2JDC3-OK_K2JDC3&settings=18792462e67540a56073e6354a93e272&forcePromo=

Chat by Mibbit.com #DC3 (2) #DC3-AL (1) #DC3-CO (1) #DC3-OK (1) #GV (5)

12:07 - FirstnameLastname-location
12:07 -
12:07 - e.g. "JohnDoe-C130" so that your identity and location is clear to everyone.
12:07 - You can use the /nick command to change your nickname, e.g.
12:07 -
12:07 - /nick JohnDoe-C130
12:07 -
12:07 - Administered by
12:07 -
12:07 - Computing, Data and Software Facility
12:07 - Earth Observing Laboratory
12:07 - National Center for Atmospheric Research
12:07 - Boulder, Colorado
12:07 -
12:07 +++ Vidal set to mode +iwsz
12:07 *** Vidal joined #GV
Aircraft Operations
Topic set by ChrisWebster-Jeffco on Fri Oct 21 2011 10:36:59 GMT-0600 (MDT)

Chatting
Vidal
mib_1a59f5
Idlers
groundbot
orendorff_UK
TomBaltzer-RAF

Smilies | Colours | Translation | PasteBin | Minify URL Menu



Safari File Edit View History Bookmarks Window Help

Mibbit

http://embed.mibbit.com/?server=rdcc.guest.ucar.edu/K3AK286668&channel=K2JGV,K2JDC3-AL,K2JDC3-CO,K2JDC3-OK,K2JDC3M&settings=18792462e67540a56073e6354a93e272&forcePromo=

Chat by Mibbit.com #DC3 (2) #DC3-AL (1) #DC3-CO (1) #DC3-OK (1) #GV (5)

12:07 - FirstnameLastname-location

12:07 -

12:07 - e.g. "JohnDoe-C130" so that your identity and location is clear to everyone.

12:07 - You can use the /nick command to change your nickname, e.g.

12:07 -

12:07 /nick JohnDoe-C130

12:07 -

12:07 - Administered by

12:07 -

12:07 - Computing, Data and Software Facility

12:07 - Earth Observing Laboratory

12:07 - National Center for Atmospheric Research

12:07 - Boulder, Colorado

12:07 -

12:07 +++ Vidal set to mode +iwsz

12:07 *** Vidal joined #GV

Aircraft Operations

Topic set by ChrisWebster-Jeffco on Fri Oct 21 2011 10:36:59 GMT-0600 (MDT)

Chatting

- Vidal
- mib_1a59f5

Idlers

- groundbot
- orendorff_UK
- TomBaltzer-RAF

Smilies | Colours | Translation | PasteBin | Minify URL

Menu



WEB based!

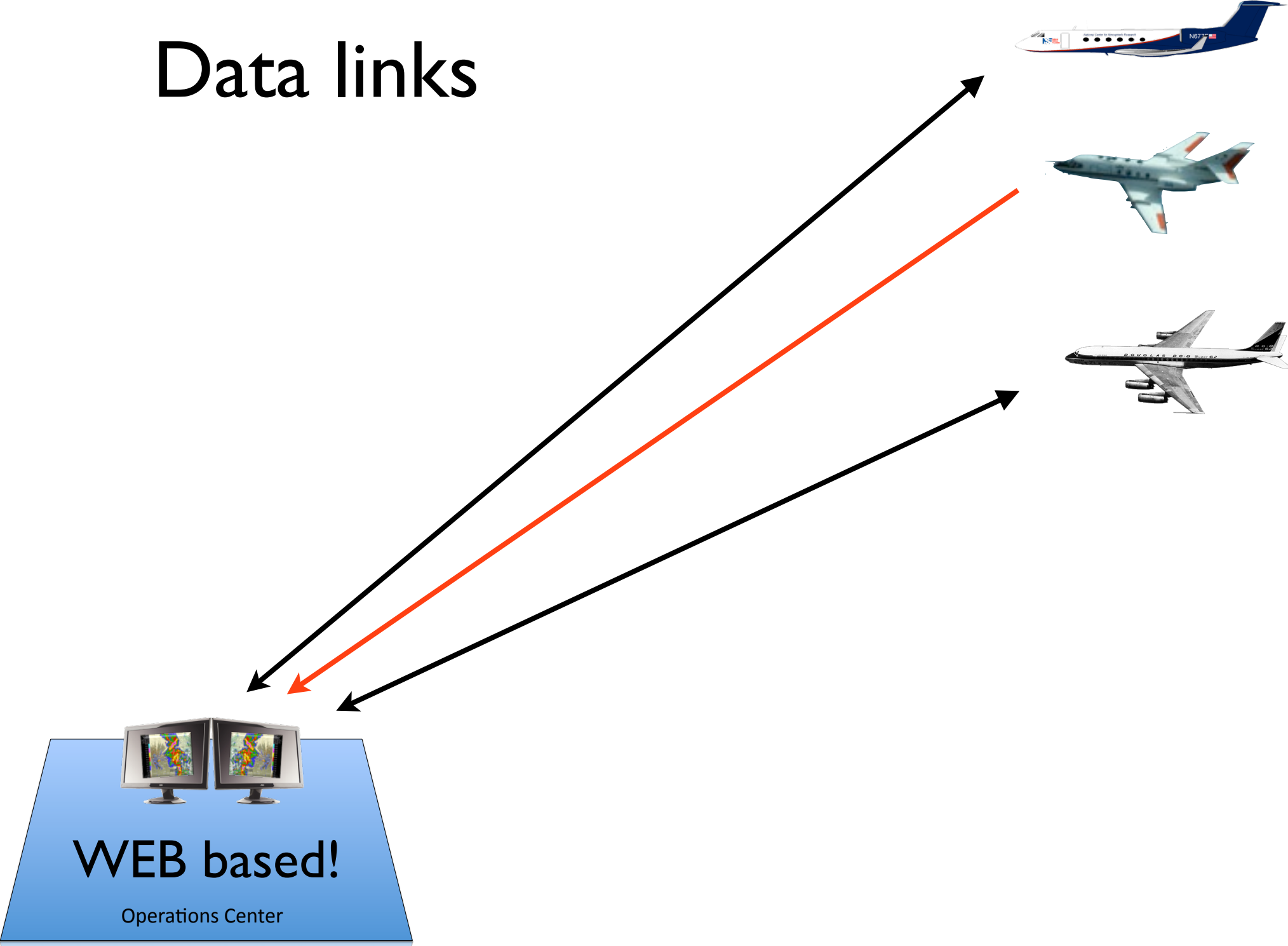
Operations Center

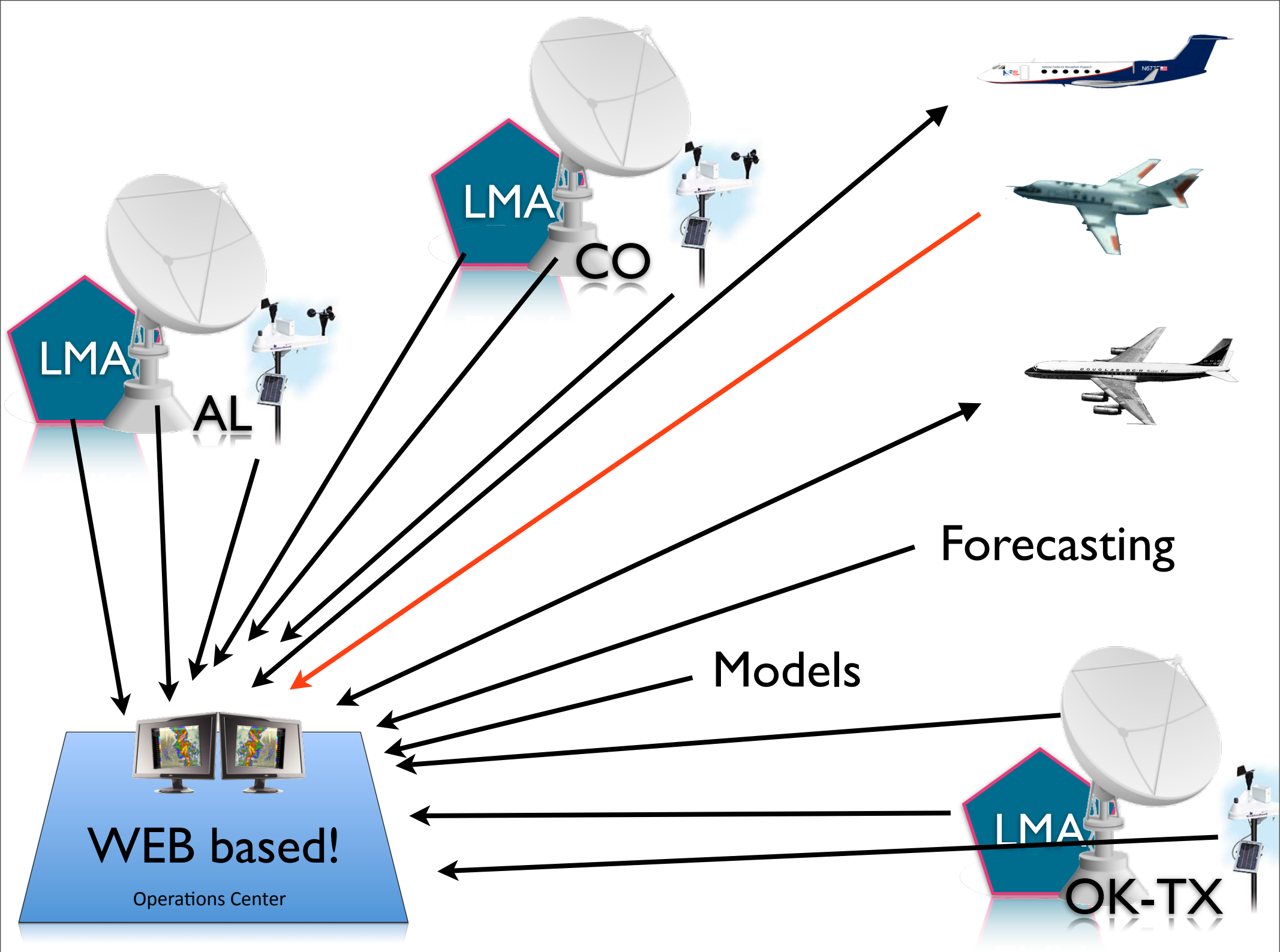


WEB based!

Operations Center

Data links





Need to implement other forms of communications

Other forms of communications for DC3

REALTIME

Phone and web interfaces
for mobile devices directly
derived from the data catalog



Other forms of communications for DC3

REALTIME

Phone and web interfaces
for mobile devices directly
derived from the data catalog





DC3-Operations

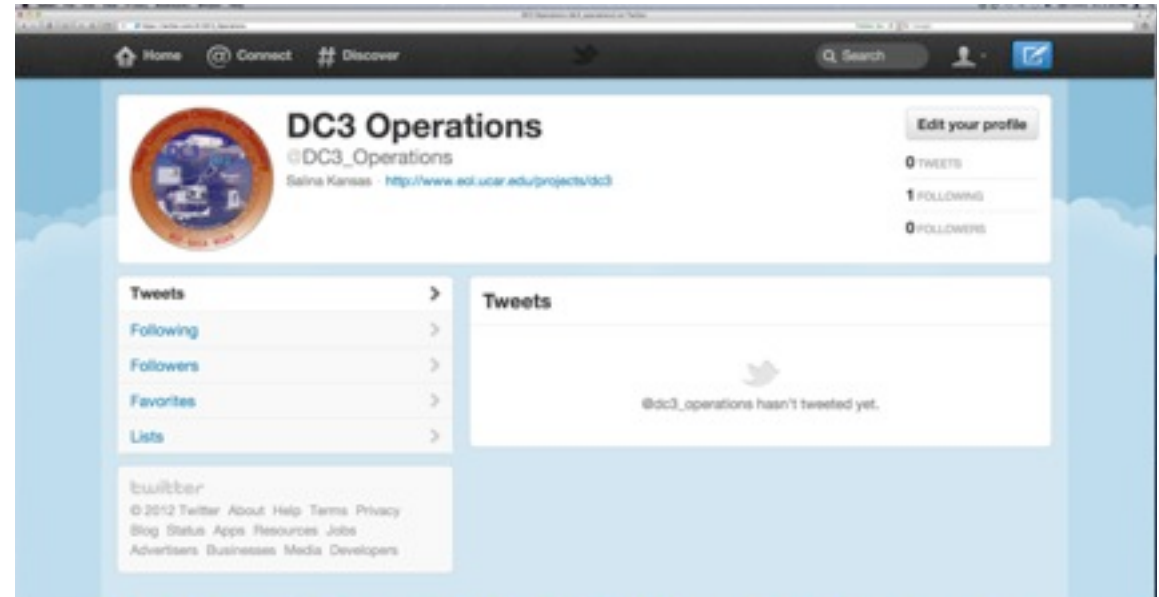


“A tweet is not a conversation, it is a good way of disseminating information”





- ◆ Real time communication
- ◆ Quick updates
- ◆ Reminders
- ◆ Tweet links
- ◆ Request information
- ◆ Feedback from PIs



- ◆ Real time communication
- ◆ Quick updates
- ◆ Reminders
- ◆ Tweet links
- ◆ Request information
- ◆ Feedback from PIs

Communications breakout groups

- Effective and rapid communications channels
- Dissemination of the decision making process
- Chain of command (scientists-aircraft-ground facilities)
- Communications priorities