



CAMEX-4 Data Center Status



Michael Goodman

Global Hydrology & Climate Center

National Space Science & Technology Center

13 March 2002



Overview



CAMEX-4 Data & information system is comprised of:

- Web site
- FTP access
- Data sets
- Archive
- Documentation



Web Site





The fourth Convection and Moisture Experiment



[Calendar](#)
[Related Sites](#)
[Data & Reports](#)

The Convection And Moisture Experiment (CAMEX) is a series of field research investigations sponsored by the Earth Science Enterprise of the National Aeronautics and Space Administration (NASA). The fourth field campaign in the CAMEX series (CAMEX-4) is scheduled for 16 August - 24 September, 2001 and is based out of Jacksonville Naval Air Station, Florida.

CAMEX-4 is focused on the study of tropical cyclone (hurricane) development, tracking, intensification, and landfalling impacts using NASA-funded aircraft and surface remote sensing instrumentation. The primary aircraft used during CAMEX-4 are the NASA DC-8 and ER-2 research airborne platforms. These instrumented aircraft will fly over, through, and around selected hurricanes as they approach landfall in the Caribbean, Gulf of Mexico, and along the east coast of the United States. The NASA aircraft will investigate upper altitude regions of the hurricane not normally sampled. Where possible, measurements will be compared and validated with coincident observations from the QuikSCAT, Terra, and Tropical Rainfall Measuring Mission (TRMM) satellite, and ground-based radar observations. The goal is to continually strive to improve hurricane predictions. More information is available at [www.nasa.gov/camex4](#).

While remote sensing of the hurricane environment is the primary focus, CAMEX-4 will also study the structure, precipitation systems, and atmospheric microphysics of the hurricane. The objective of the KAMP flights is to improve quantitative precipitation estimates from passive and active microwave instruments.

The DC-8 will be based at Naval Air Station Jacksonville, Florida. Aircraft operations will be within a 1500 nm radius of Jacksonville. The KAMP flights will be approximately 300 nm from the air station near Key West Florida. The NASA DC-8 and ER-2 are the primary aircraft platforms for CAMEX-4. NASA will also be funding the flight of several unmanned aerial vehicles called the AEROSONDE.

Dr. Ramesh Kakar (Program Manager for Atmospheric Dynamics and Remote Sensing at NASA Headquarters) is the CAMEX-4 sponsor. CAMEX-4 is conducted in collaboration with the National Oceanic and Atmospheric Administration (NOAA) Hurricane Research Division and the United States Weather Research Program (USWRP).



EDOP near radar reflectivity (left) and Doppler velocity (right) in an east-west section across the Dominican Republic and its main mountain ridge around 22:15 UTC on 22 September 1996. The Doppler velocity includes both air motion and hydrometeor fallspeed. This image was taken during the CAMEX-3 field experiment.



CAMEX-4 region of interest with range rings centered on Jacksonville Naval Air Station (JAX NAS). The research aircraft will typically fly tropical cyclones in the Atlantic, Caribbean or Gulf of Mexico within 600 nautical miles of the Jacksonville base of operations.



Click image to View the Latest GOES-8 Infrared Satellite Imagery



Instruments:
[Aerosonde](#)
[Andros Island](#)
[NASA DC-8](#)
[NASA ER-2](#)
[KAMP](#)

Participants:
[Managers](#)
[Principal Investigators](#)
[Co-Investigators](#)
[Support Personnel](#)
[Aircraft](#)

Hurricane & Flight Tracks
[Hurricane Tracks](#)
[Flight Tracks](#)
[Satellite Tracks](#)
[Flight Plans](#)

News & Information:
[Aircraft](#)
[CAMEX-4 News](#)
[CAMEX-4 Gallery](#)
[CAMEX-4 Diary](#)
[CAMEX-3 Website](#)

Surface Data Sites:
[Andros Island](#)
[Rawinsondes](#)
[TRMM KAMP](#)

Data & Reports



Search



Search database for reports, forecasts, weather summaries, and quicklooks

Experiment Reports and Forecast Archive

Mission Science Reports:

09/15/01



Forecasts:

Select Date

Sortie Reports: [Click Here to Download NavData](#)

DC-8

Daily Weather Summaries:

Select Date

ER-2

[Click Here to Enter Instrument Field Reporting Section](#) (For CAMEX-4 Participants Only - Password Required)

Search Quicklooks (you may search by date, instrument, or both)

Date:

Instrument:



Mission Scientist Reports



Mission Science Report Archive

Mission Date: 09/15/2001
Mission Scientist: Zipser, Edward

Sortie Number:
DC-8 010414
ER-2 None
Aerosonde None

Mission Description:

2 a/c mission in TC Gabrielle, located near 30 N 79 W. (The ER-2 was desired but could not consider operating with the string crosswinds at JAX.) The mission can best be characterized as "extratropical transition", but it should prove to be an excellent data assimilation mission. It does not fit neatly into any category. The storm has just emerged off the Florida coast over the Gulf Stream, and the major issue was whether it would reorganize and intensify.

Mission Objective:

The principal objective was to map the somewhat unconventional flow fields and thermodynamic fields in a rotated figure-4 pattern, extended as far from the cyclone center as possible. The location on our doorstep permitted legs for the DC8 between 150-250 nm in radius in most quadrants, and mostly accomplished with close coordination with the NOAA P-3 on center crossings.

Mission Notes:

This storm defied the forecast models. It refused to reintensify as advertised over the Gulf Stream on this flight day. (The next day's mission was flown by the P3 and ER-2 only because DC8 had a mechanical problem. That day featured a storm approaching hurricane strength, again not well handled by the models.) The structure was unusual, with a dry southwest flow over and south of the center, and strong convection only to the N and NE of the center. Periodic outbreaks of intense convection persisted in these quadrants (and these quadrants only) for 48 hours, apparently being enough to deepen the storm. The DC8 patterns included several crossings of the dry slot on the SE side of the storm, with extremely low water vapor content measured by LASE and the JPL hygrometer. There were about 9 dropsondes launched, and the first 6 were transmitted to NHC before some unknown failure prevented the remainder from following. The total data coverage from the P3 and its drops, the DC8 and its drops, and the NOAA Gulfstream and its drops, should guarantee one of the most comprehensive data sets on any storm and its environment ever obtained. Modelers take note.

Ground/Other Assets Summary:

NOAA 49 track west and far NE of storm; many dropsondes



Search



Search database for field forecasts made by forecasters from Florida State University

Experiment Reports and Forecast Archive

Mission Science Reports: 09/24/01

Sortie Reports: [Click Here to Download NavData](#)

DC-8 010418 (09/24/01)

ER-2 01-142 (09/24/01)

Forecasts: 09/23/01

Daily Weather Summaries: 09/24/01

[Click Here to Enter Instrument Field Reporting Section](#) (For CAMEX-4 Participants Only - Password Required)

Search Quicklooks (you may search by date, instrument, or both)

Date: 09/24/2001

Instrument: All Instruments



Forecasts



CAMEX-4 Forecast Archive

Forecaster: Axe, Liza

Date: 09/23/2001

Initial Forecast Time: 1200 UTC

Initial Forecast

Tropical--Humberto is located at 30.5N 67.5W with 55 kt winds and central pressure of 994 mb. Satellite imagery shows good outflow to the north and the upper level low to its SW. The trough in the US continues to move E which will effect the storm in about 24-36 hrs. The shear is relaxing a bit which will allow for some further intensification and the SST's are high. But movement to the north the shear will increase and the SST's will become cooler. Elsewhere, no development is expected.

JAX--partly cloudy with patching fog. Winds NNE at 3 kt and a temp of 77.

EYW--mostly cloudy with heavy rain. Winds ESE at 10 mph and a temp of 81.

6 Hour Forecast

Tropical--Slight intensification of Humberto and moving to the NW.

JAX--PATCHY EARLY MORNING DENSE FOG. LOCAL VISIBILITIES NEAR ONE- QUARTER MILE AT TIMES. OTHERWISE...MOSTLY CLOUDY WITH A 60 PERCENT CHANCE OF AFTERNOON SHOWERS AND THUNDERSTORMS. HIGHS IN THE MID TO UPPER 80S. LIGHT AND VARIABLE WINDS...BECOMING EAST AROUND 10 MPH THIS AFTERNOON.

EYW--PARTLY CLOUDY WITH ISOLATED SHOWERS AND THUNDERSTORMS. HIGHS IN THE UPPER 80S. EAST WINDS 10 MPH. CHANCE OF RAIN 20 PERCENT.

12 Hour Forecast

Tropical--Humberto will intensify slightly according to the NHC with winds just about cat 1 level. The storm will pass to the west of Bermuda with no problem. It will continue moving NNW around 10 kt.

JAX--MOSTLY CLOUDY WITH A 40 PERCENT CHANCE OF EVENING SHOWERS AND THUNDERSTORMS. PATCHY LATE NIGHT FOG. LOWS NEAR 70. LIGHT SOUTHEAST TO SOUTH WINDS.

EYW--PARTLY CLOUDY WITH ISOLATED SHOWERS AND THUNDERSTORMS. LOWS IN THE UPPER 70S. EAST WINDS 10 MPH. CHANCE OF RAIN 20 PERCENT.



Search Weather Summaries



Search database for weather summaries that provide a recap of the tropical weather at JAX, KAMP, and storm locations

Experiment Reports and Forecast Archive

Mission Science Reports:
09/24/01

Sortie Reports: [Click Here to Download NavData](#)

DC-8 010418 (09/24/01)

ER-2 01-142 (09/24/01)

Forecasts:
09/23/01

Daily Weather Summaries:
09/24/01

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Search Quicklooks (you may search by date, instrument, or both)

Date: 09/24/2001

Instrument: All Instruments



Weather Summaries



Daily Weather Summary		
Name: Liza Axe	Date: 09/24/01	0000 to 0000
Weather Summary		
<p>Tropical--Humberto has and will continue weakening as it moves NE. Most of the deep convection has been on the north and west side of the storm today. Currently it is located at 37.2N 63.9W with winds of 65 kt. JAX--partly cloudy with showers and thunderstorms due to the cold front passing through the area. On behalf of Krish's lab, thank you and good luck. It was a pleasure to work with all of you.</p>		

Missing a few summaries on:

- 17 & 27 August
- 4, 7, 10, 18-19 September



Search Flight Reports



Search database for information on the takeoff & landing, mission objectives, etc for the ER-2 and DC-8

Experiment Reports and Forecast Archive

Mission Science Reports: 09/24/01 <input type="button" value="Display"/>	Forecasts: 09/23/01 <input type="button" value="Display"/>
Sortie Reports: Click Here to Download NavData	
DC-8 010418 (09/24/01) <input type="button" value="Display"/>	Daily Weather Summaries: 09/24/01 <input type="button" value="Display"/>
ER-2 01-142 (09/24/01) <input type="button" value="Display"/>	

[Click Here to Enter Instrument Field Reporting Section](#) (For CAMEX-4 Participants Only - Password Required)

Search Quicklooks (you may search by date, instrument, or both)

Date: 09/24/2001

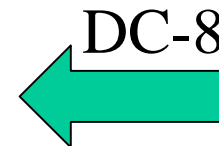
Instrument: All Instruments



Sortie Reports

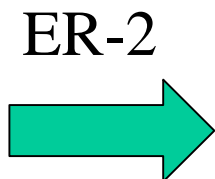


Sortie Report Archive		
Report Filed By: Michael Craig		
Sortie ID 010418	Platform DC-8	Sortie Date 09/24/01
Launch Time 1842	Landing Time 0313	Flight Hours Used 8.5
Platform Status DC-8 Ready		



Next Flight Plan Transit to Dryden
Flight Path
Flight Objective Hurricane Humberto Covets Miss
Pilot Name Ed Lewis, Jr
Co-Pilot Name Bill Brockett
Mission Manager Walter Klein

Sortie Report Archive		
Report Filed By: Michael Craig		
Sortie ID 01-142	Platform ER-2	Sortie Date 09/24/01
Launch Time 1830	Landing Time 0115	Flight Hours Used 6.7
Platform Status ER-2 Ready		
Next Flight Plan Transit to Dryden		
Flight Path		
Flight Objective Hurricane Humberto Covets Mission		
Pilot Name Ken Broda		
Co-Pilot Name none		
Mission Manager Mike Kapitzke		





Search Quicklooks



Specify a specific instrument and/or a date to get a listing of quicklooks online.

Experiment Reports and Forecast Archive

Mission Science Reports:

09/24/01

Forecasts:

09/23/01

Sortie Reports: [Click Here to Download NavData](#)

DC-8 010418 (09/24/01)

Daily Weather Summaries:

09/24/01

ER-2 01-142 (09/24/01)

[Click Here to Enter Instrument Field Reporting Section](#) (For CAMEX-4 Participants Only - Password Required)

Search Quicklooks (you may search by date, instrument, or both)

Date: 09/24/2001

Instrument: MTP-DC-8



Quicklooks



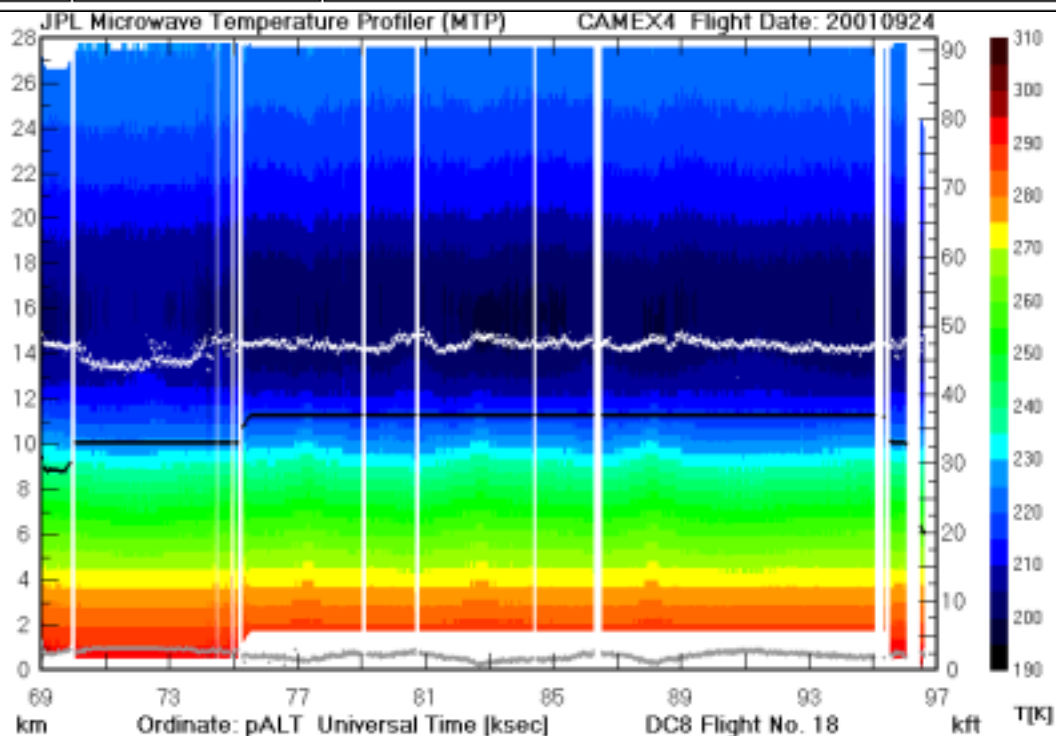
Search Quicklooks (you may search by date, instrument, or both)

Date:

Instrument:

Quicklooks

Date	Instrument	Quicklook
09/24/2001	MTP-DC-8	c4d8MTP_2001.0924_010418_prelim-CTC.png



PRELIMINARY DATA Principal Investigator: MJ Mahoney (Michael.J.Mahoney@JPL.NASA.GOV) PRELIMINARY DATA
History: Flight 2001 09 24 00:00:00 Retrieved: 2001 09 06 19:42:28 Edited: 2001 09 25 04:00:59 Plotted: 2001 09 25 04:02:25



Search Aircraft Navigation



Experiment Reports and Forecast Archive

Mission Science Reports:

09/24/01

Forecasts:

09/23/01

Sortie Reports: [Click Here to Download NavData](#)

DC-8 010418 (09/24/01)

Daily Weather Summaries:

09/24/01

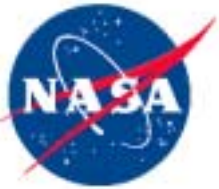
ER-2 01-142 (09/24/01)

[Click Here to Enter Instrument Field Reporting Section](#) (For CAMEX-4 Participants Only - Password Required)

Search Quicklooks (you may search by date, instrument, or both)

Date: 09/24/2001

Instrument: All Instruments



Aircraft Navigation



Navdata Archive

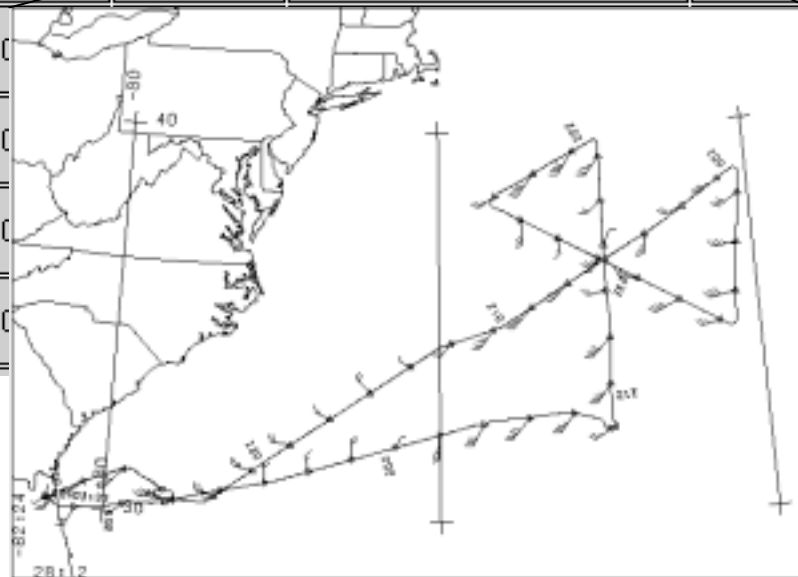
ER-2 | DC-8

ICATS Format Documentation

[MS Excel](#) | [ASCII](#)

DC-8

Sortie #	Sortie Date	Data Files	Description
010418	09/24/2001	Navdata Track Log	DC-8 Nav. Data for flight #010418 on 9/24/2001 into Hurricane Humberto.
010417	09/23/2001	Navdata Track Log	DC-8 Nav. Data from flight #010417 on 9/23/2001 into Hurricane Humberto.



CAMEX4
010418.FLT
FLT 010418 SEPT 24, 2001 JAX-LOCAL

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DC-8 Mission Director Log			
		Mission Name: CAMEXIV	
		Flight Number: 010418	
		Day : 267	
		Date(PCT): Sep 24, 2001	

18:52:24	Taxi-18:35:18, B/R-18:41:52, T/O-18:42:32		
18:53:05	Pilot-Lewis, CP-Brockett, FE-Trout, Nav-Hall		

18:53:24	Hurricane Humberto Day 3		

19:04:59	Climb to FL330		
	Next waypoint: TROUT	NMS:	1
	Pressure alt: 30746	Latitude:	+30 14.9
	Radar alt: 32478	Longitude:	+079 12.2

19:08:17	Level at FL310		
	Next waypoint: TROUT	NMS:	1
	Pressure alt: 31005	Latitude:	+30 16.8
	Radar alt: 32518	Longitude:	+078 42.7



Instrument Field Reports



Experiment Reports and Forecast Archive

Mission Science Reports:

09/24/01

Forecasts:

09/23/01

Sortie Reports: [Click Here to Download NavData](#)

DC-8 010418 (09/24/01)

Daily Weather Summaries:

09/24/01

ER-2 01-142 (09/24/01)



[Click Here to Enter Instrument Field Reporting Section](#) (For CAMEX-4 Participants Only - Password Required)

Search Quicklooks (you may search by date, instrument, or both)

Date: 09/24/2001

Instrument: All Instruments



Daily Instrument Status



Determine disposition of daily in-field instrument reports

Instrument Debrief	
Instrument: LASE	Instrument Performance LASE performed well during this flight. No problems.
Instrument Status: Green	
Sortie Number: 010418	Science Observations LASE acquired water vapor, aerosol, and cloud measurements both to and from Hurricane Humberto as well around the periphery of the storm. LASE measurements showed generally dry conditions existed, except in the immediate vicinity of the storm. The southern part of the storm was especially dry and cloud free, and LASE was able to measure water vapor within about 60-100 n. miles of the eye. The southeastern quadrant was also mostly cloud-free and LASE was able to measure water vapor in this location. LASE zenith measurements showed cirrus cloud tops were nearly always at or below 14 km.
Sortie Date: 09/24/2001	
Launch Time: 1842	
Landing Time: 0313	
Flight Hours Used: 8.5	
Instrument Scientist: Ferrare , Richard	



Calendar





The fourth Convection and Moisture Experiment



Instruments:

- Aerosonde
- Andros Island
- NASA DC-8
- NASA ER-2
- KAMP

Participants:

- Managers
- Principal Investigators
- Co-Investigators
- Support Personnel
- Aircrew

Hurricane & Flight Tracks

- Hurricane Tracks
- Flight Tracks
- Satellite Tracks
- Flight Plans

News & Information:

- Aircraft
- CAMEX-4 News
- CAMEX-4 Gallery
- CAMEX-4 Diary
- CAMEX-3 Website

Surface Data Sites:

- Andros Island
- Rainwsondes
- TRMM KAMP



Calendar | [Related Sites](#) | [Data & Reports](#)

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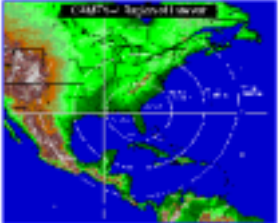
While remote sensing of the hurricane structure, precipitation systems, and atmospheric water vapor profiles. This portion of CAMEX-4 is known as KAMP, Keys Area Microphysics Project. The objective of the KAMP flights is to improve quantitative precipitation estimates from passive and active microwave instruments.

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Click image to View the Latest GOES-8 Infrared Satellite Imagery





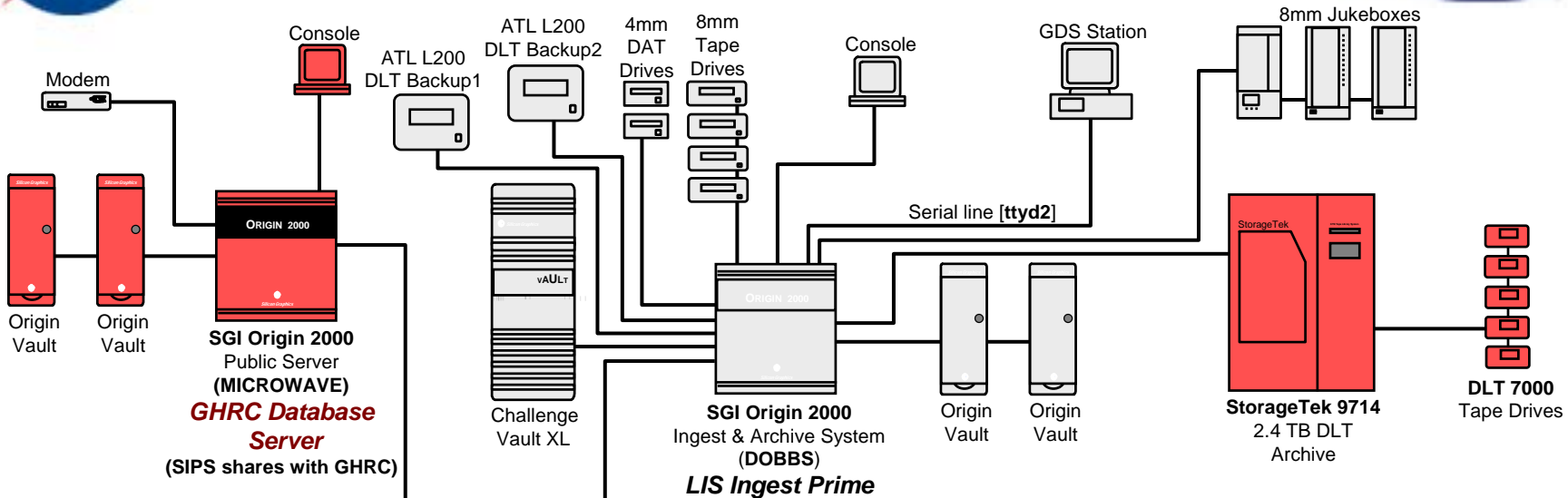
Calendar



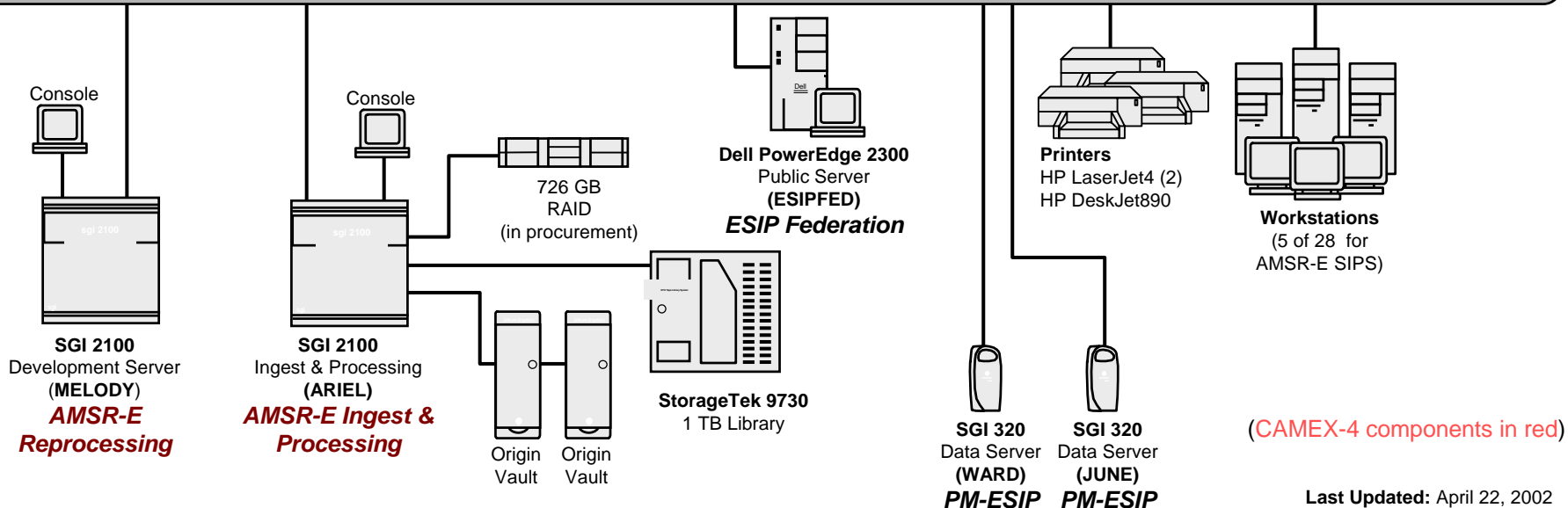
September 2001						July August September
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3 DC-8 Sortie 010409 KAMP flight over Gulf Storms and overflight of MPS site on Big Torch Key ER-2 Sortie 01-134 over storms over Gulf and overpass of MPS site.	4	5	6	7	8 1411 109 as DC- 135 all of
9 DC-8 Sortie 010412 over Florida Bay in stratiform precipitates. Includes spiral descent and 3 overpasses of KAMP MPS site ER-2 Sortie 01-136 KAMP flight over FL Bay area	10 DC-8 Sortie 010413 Optimal Data Assimilation Mission around Hurricane Erin ER-2 Sortie 01-137 over Hurricane Erin	<div style="border: 1px solid black; border-radius: 50%; padding: 10px;"> <p>DC8 FLIGHT DC-8 Sortie 010417 into Hurricane Humberto</p> <p>ER-2 FLIGHT ER-2 Sortie 01-141 over Hurricane Humberto</p> </div>		24 DC8 FLIGHT DC-8 Sortie 010418 into Hurricane Humberto ER-2 FLIGHT ER-2 Sortie 01-142 over Hurricane Humberto	25 DC8 pack day	15 DC-8 Sortie 010414 into Tropical Storm Gabrielle
16 ER-2 Sortie 01-138 over Hurricane Gabrielle	17			22 DC-8 Sortie 010416 into Tropical Storm Humberto ER-2 Sortie 01-140 over Tropical Storm Humberto	23 Last Andros Island rawinsonde	28
20 DC-8 Sortie 010417 into Hurricane Humberto ER-2 Sortie 01-141 over Hurricane Humberto	24 DC-8 Sortie 010418 into Hurricane Humberto ER-2 Sortie 01-142 over Hurricane Humberto Last Andros Island	DC8 pack day	26 DC-8 Sortie 010419 transit flight to DFRC ER-2 Sortie 01-143 ER2 transit flight to DFRC.	September 27-30 De-integration of Mission payload.		



Global Hydrology Resource Center's Hardware Configuration



GHRC LAN



(CAMEX-4 components in red)



FTP Access



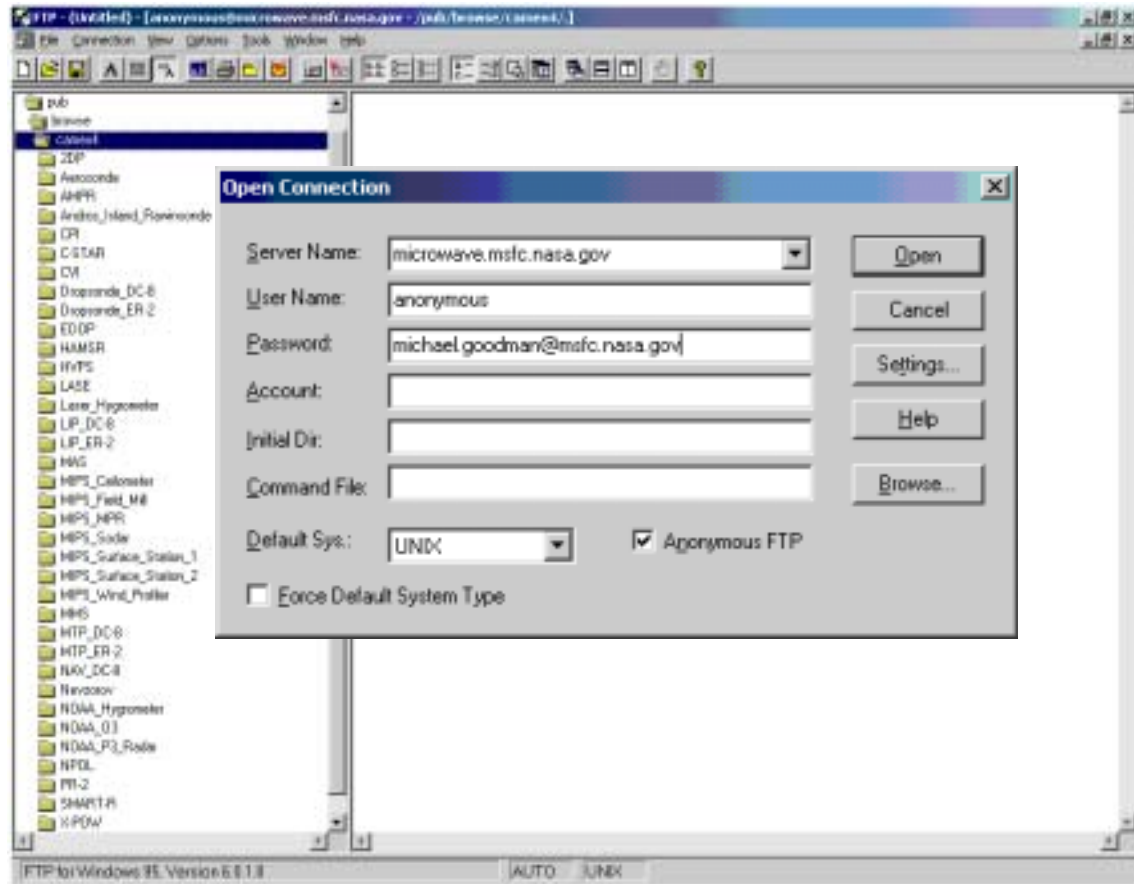
Most data sets will be accessible via anonymous FTP at:

microwave.msfc.nasa.gov

–/pub/browse/camex4

–/pub/data/camex4

–/pub/doc/camex4





Data Set Availability



CAMEX-4 Dataset Availability	
Data Set Name	Status
CAMEX-4 2D Particle Spectrometer Probes (2DP)	Available at a later date
CAMEX-4 2nd Generation Precipitation Radar (PR-2)	Available at a later date
CAMEX-4 Aerosonde Data	Available at a later date
CAMEX-4 AMPR Brightness Temperature (Tb)	Download Now
CAMEX-4 Andros Island Rawinsonde and Radiosondes	Available at a later date
CAMEX-4 Cloud Particle Imager Probe (CPI)	Available at a later date
CAMEX-4 Conically-Scanning Two-look Airborne Radiometer (C-STAR)	Download Now
CAMEX-4 Counterflow Virtual Impactor (CVI)	Available at a later date
CAMEX-4 DC-8 Dropsonde	Download Now
CAMEX-4 Dual-Beam UV-Absorption Ozone Photometer	Order Now
CAMEX-4 DC-8 Information Collection and Transmission System	Order Now
CAMEX-4 DC-8 Lightning Instrument Package (LIP)	Available at a later date
CAMEX-4 DC-8 Microwave Temperature Profiler (MTP)	Available at a later date
CAMEX-4 ER-2 Doppler Radar (EDOP)	Currently Browse Only
CAMEX-4 ER-2 High Altitude Dropsonde	Order Now
CAMEX-4 ER-2 Lightning Instrument Package (LIP)	Available at a later date



Surface and Radar Database



Need assistance in defining the formats and software for archive and distribution

- Andros Island sondes – to be delivered next week
- NOAA P3 – received tapes; need to copy
- XPOW – received via FTP 250,000+ files; repackaging into daily data sets
- SMART-R – received data; developing documentation
- MIPS – working with Knupp and Walters
- NPOL – need to work arrangements with Gerlach
- TOGA – need to work arrangements with Gerlach



Aircraft Database



Aircraft data sets received in various forms:

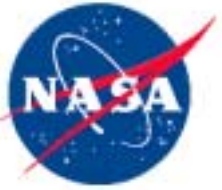
- DC8 Navigation – received data and flight tracks
- ER2 Navigation – received data and flight tracks
- DC-8 Forward & Nadir camera – to receive VTR tapes next week
- DC8 Dropsondes – received data and skew-T
- ER2 Dropsondes – received data and skew-T
- AMPR – received data and browse
- EDOP – received browse
- C-STAR – received data and browse
- NOAA Hygrometer – received data
- NOAA Ozone – received data
- MAS – expect to receive data next week



Adding Functionality



1. Actively pursue adding data sets to the archive
2. Increase the functionality of the web site:
 - populate ftp site with online data sets
 - interactive cross links between calendar, browse, and reports and data sets
 - documentation, documentation, documentation



Documentation



The data center needs to be able to support user requests for data and information. Integral part of the data archive.

- ‘ReadMe’ provides basic information about the instrument and data set . Documentation jointly developed by PI and GHRC
 - General information
 - Instrument information
 - CAMEX-4 flight operations summary
 - File format with file name descriptions
 - References
- Software in form of subroutine or program that enables a user to read the data (commercial or PI-developed)
- Online catalog – brief description of the data/instrument and a date range of data availability. Developed by GHRC



Point of Contact



Michael Goodman – general issues

- michael.goodman@nsstc.nasa.gov
- 256 961 7890

Steve Jones – arrange for data transfer

- steve.l.jones@nsstc.nasa.gov
- 256 961 7879

Richard Wohlman – documentation and user services

- richard.wohlman@nsstc.nasa.gov
- 256 961 7932