



NOAA Aircraft Operations Center Flight Activities - 2005 Hurricane Season



60th Interdepartmental Hurricane Conference

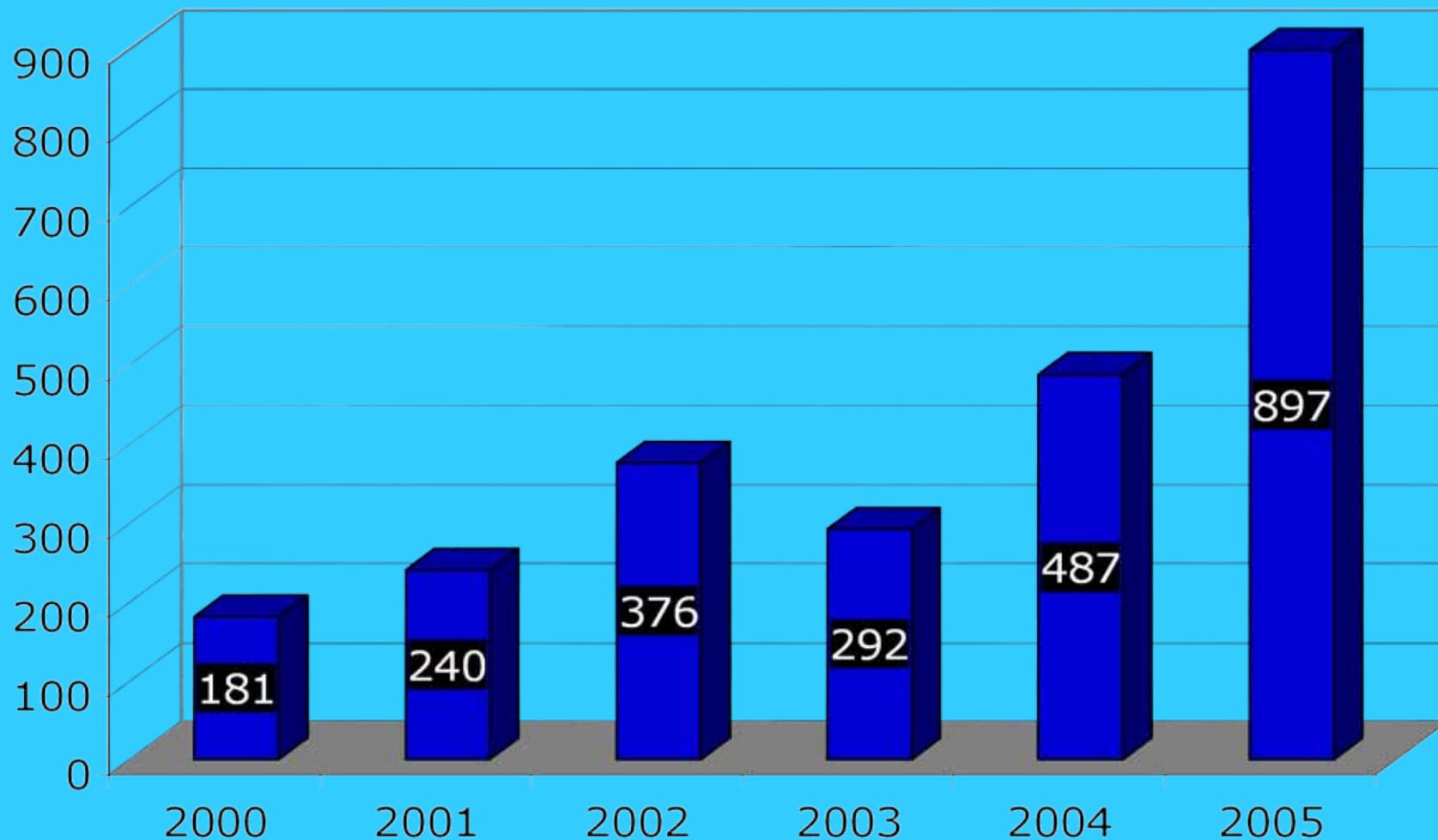


Mar 21, 2006





2000-2005 Hurricane Flight Hours - P-3 and G-IV





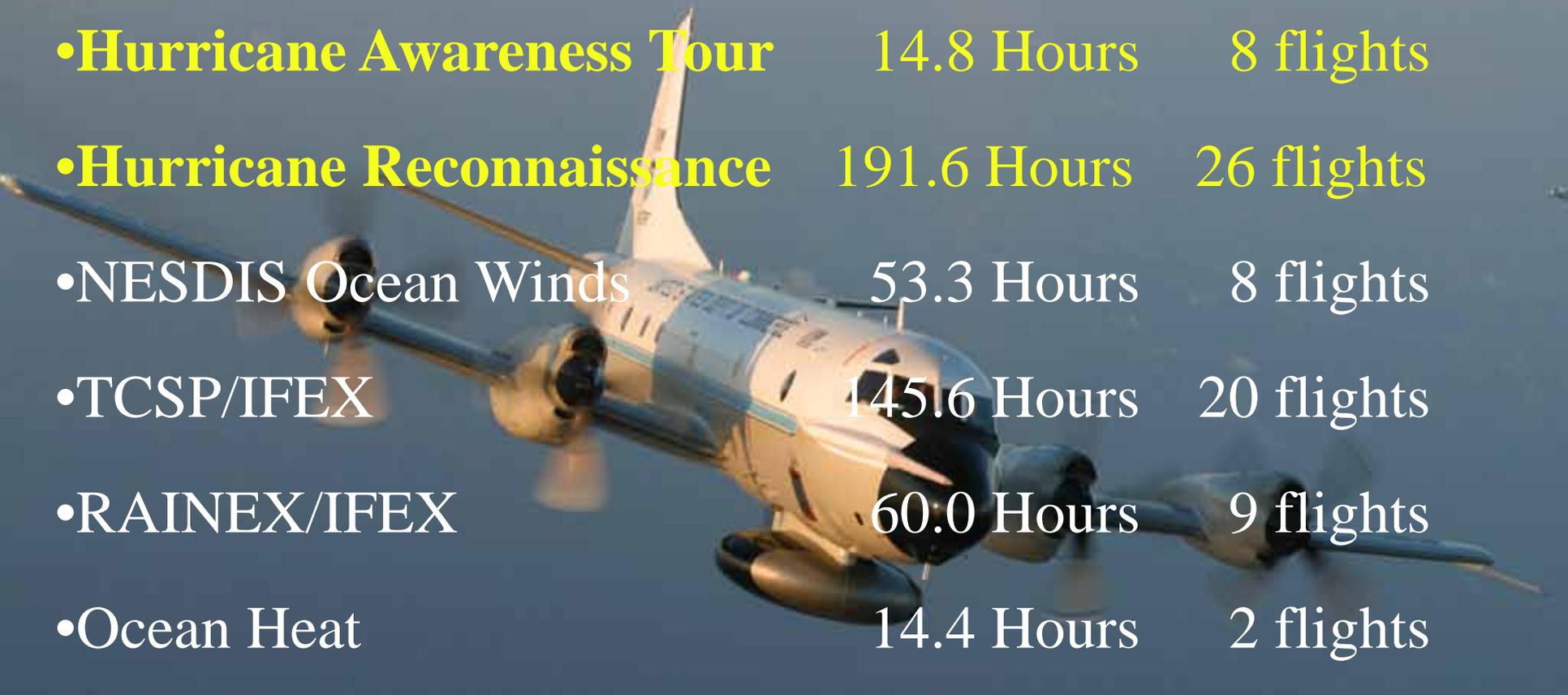
2005 Hurricane Season P-3 and G-IV



•Hurricane Reconnaissance	191.6 Hours	26 flights
•Hurricane Surveillance	388.3 Hours	50 flights
•Hurricane Research	263.9 Hours	39 flights
•NESDIS Ocean Winds	53.3 Hours	8 flights
•Total	897.1 Hours	123 flights



2005 Hurricane Season P-3 (Operational/Research Missions)



•Hurricane Awareness Tour	14.8 Hours	8 flights
•Hurricane Reconnaissance	191.6 Hours	26 flights
•NESDIS Ocean Winds	53.3 Hours	8 flights
•TCSP/IFEX	145.6 Hours	20 flights
•RAINEX/IFEX	60.0 Hours	9 flights
•Ocean Heat	14.4 Hours	2 flights
•Total	479.7 Hours	73 flights



2005 Hurricane Research



• **TCSP/IFEX**



• **RAINEX/IFEX**



• **Ocean Winds**



• **Ocean Heat Content**



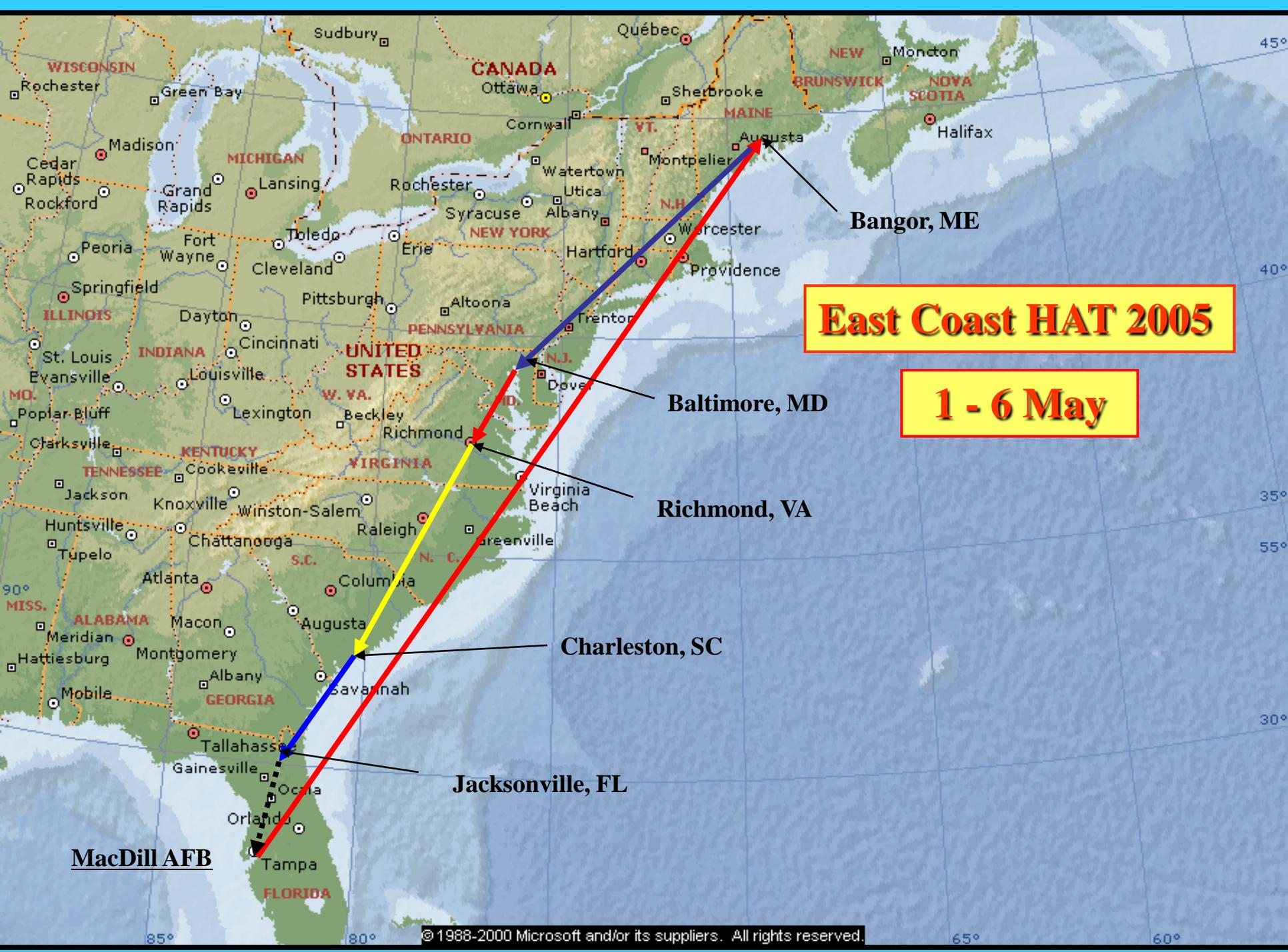
noaa research

NOAA'S OFFICE OF OCEANIC AND ATMOSPHERIC RESEARCH

2005 MISSISSIPPI & EAST COAST HURRICANE AWARENESS TOUR

Stennis International

April 29, 2005
and
May 15, 2005



East Coast HAT 2005

1 - 6 May

Bangor, ME

Baltimore, MD

Richmond, VA

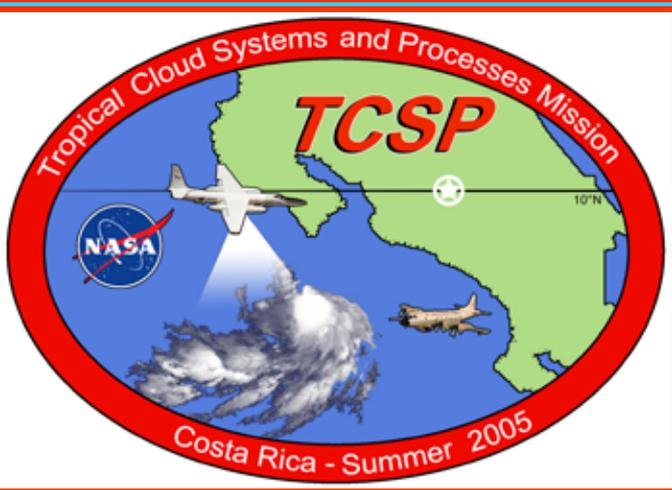
Charleston, SC

Jacksonville, FL

MacDill AFB

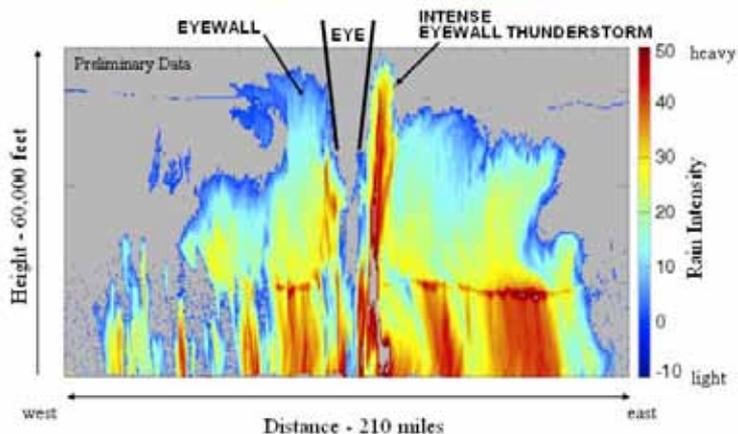


2005 Hurricane Research



ER-2 Doppler Radar (EDOP) Views Detailed Super-Anatomy Of Intense Hurricane Emily During NASA's TCSP Experiment

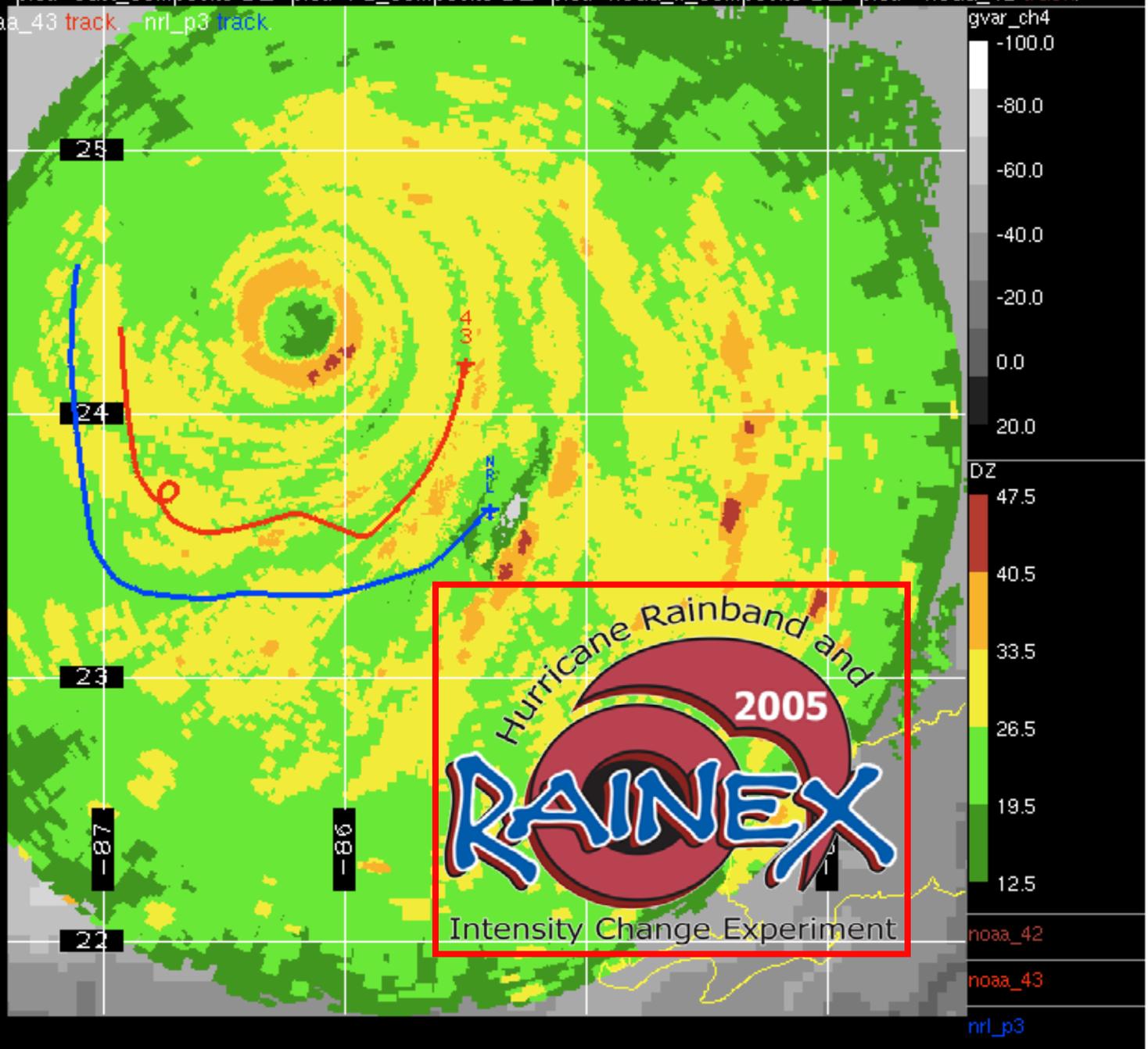
Principal Investigator: Dr. Gerald Heymsfield, NASA GSFC



Vertical slice showing rain structure across the entire storm - 1:30 - 2:00 AM CST July 17, 2005



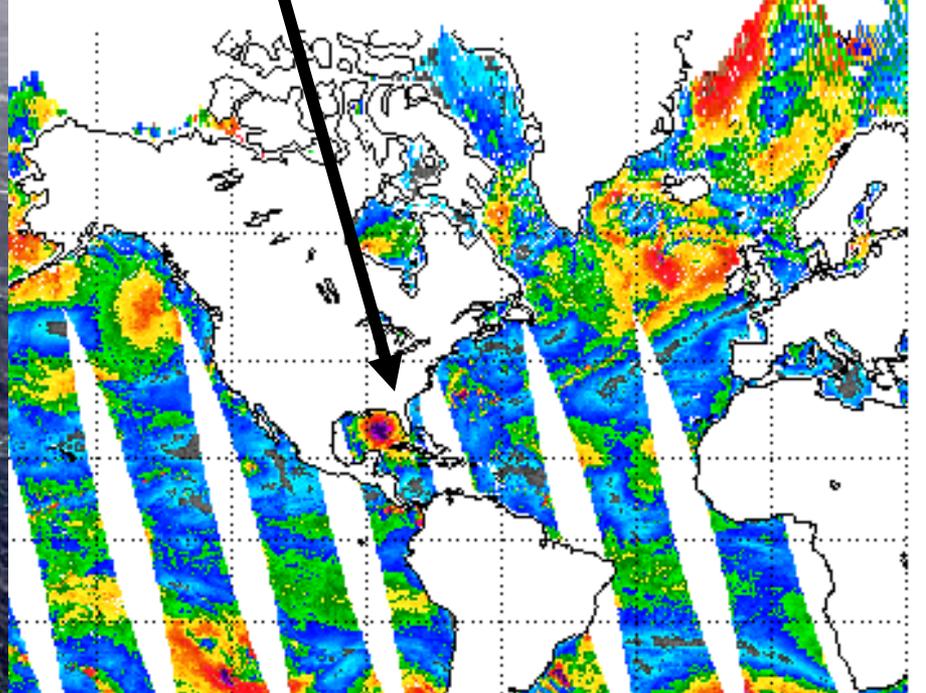
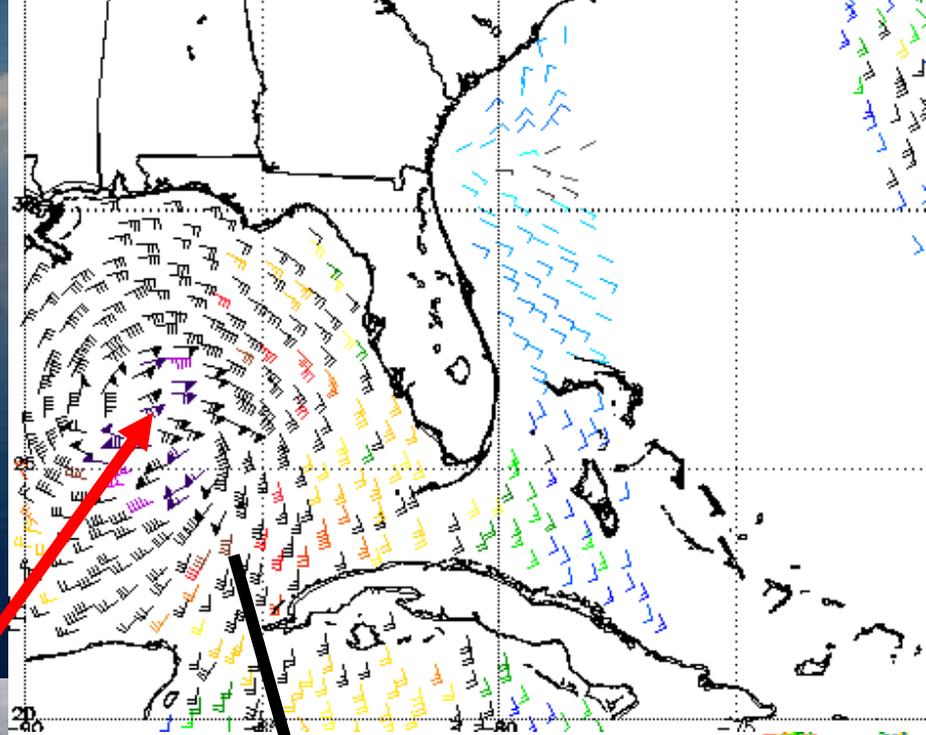
21-sep-2005,19:02:00 Zebra projection: goes_4km gvar_ch4 plot. pr_composite DZ plot. gulf_composite DZ plot. east_composite DZ plot. FL_composite DZ plot. noaa_if_composite DZ plot. noaa_42 track. noaa_43 track. nrl_p3 track.



Real Time
Flight Tracks
And
Lower
Fuselage
Radar Data

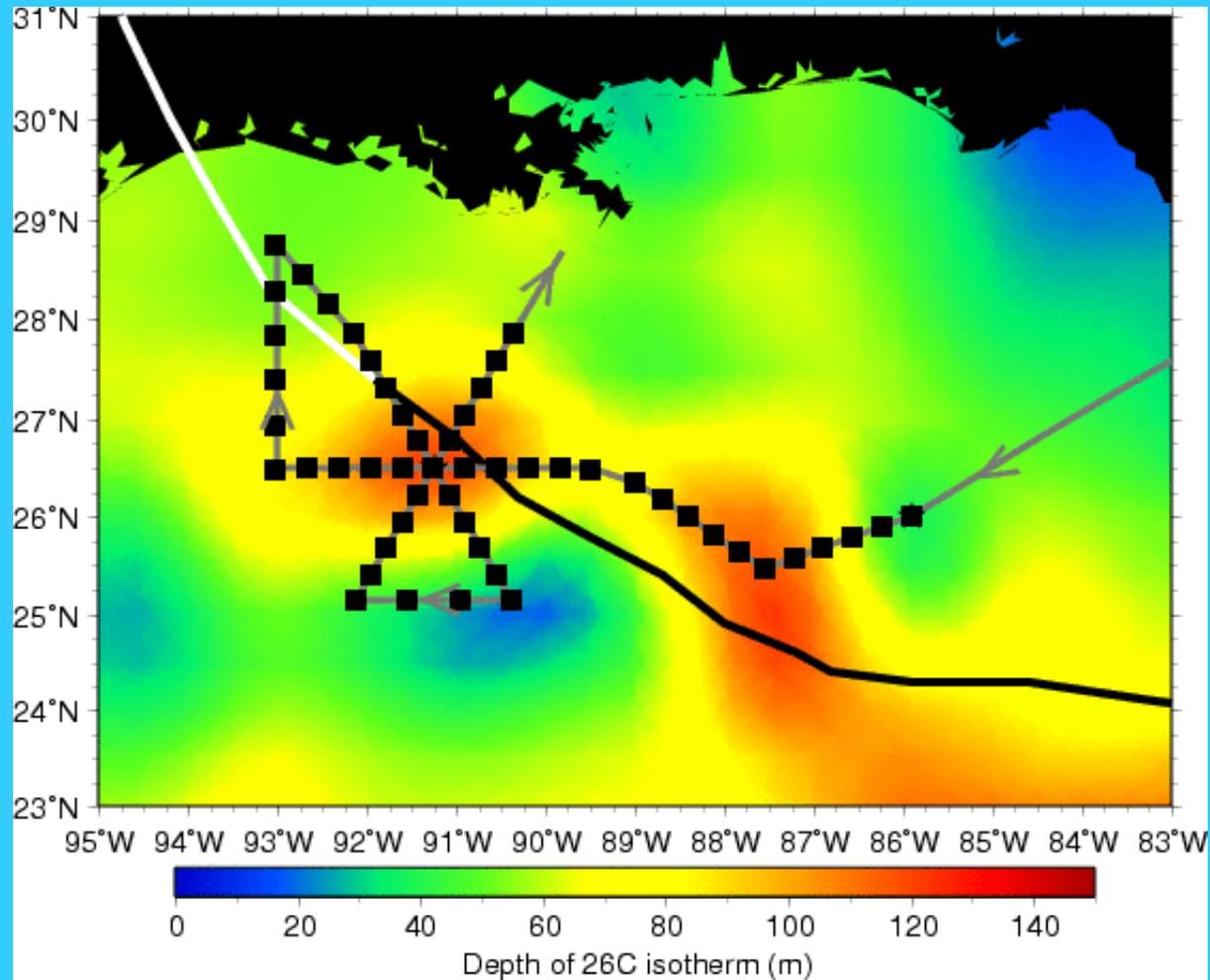
- Katrina
- Ophelia
- Rita

Ocean Vector Winds from QuikSCAT





Ocean Heat Content





NOAA G-IV

Hurricane Missions

(Operational / **Research**)



- **Hurricane Surveillance**

50 Flights

388.3 Hours

1225 Dropwindsondes

162,740 Miles Flown

- **SALEX (Saharan Air Layer Experiment)**

8 Flights

43.9 Hours

115 Dropwindsondes



2005 NOAA G-IV Hurricane Season Flight Hour Summary (SALEX)

- 2 Deployments
- 4 Missions
- 44 Hours
- 115 Dropwindsondes



NOAA Citation Damage Photography



7000 Photos taken in 7 days -- Images available within 24 Hours

5 Million Photos (27 TBs)
Downloaded Daily by the
Public!



AOC Helicopter Support After Katrina Landfall

33 Flights

84 Hours

Less than 21 days!



Missions Flown:

- Humanitarian Relief
- Damage Assessment
- Hazmat Support
- Tide Gauge Repair



Thank you