ICCAGRA Meeting
9 November 2009 Tampa, FL

NOAA Aircraft Operations Center

MacDill AFB, FL

NOAA Aircraft Status
7 Types – 12 Aircraft

Lockheed WP-3D Orion (2)

Gulfstream Jet Prop (1)

Rockwell Aero Commander (2)

Gulfstream IV-SP (G-IV) (1)

Cessna Citation II (1)

King Air 350*

DeHavilland Twin Otter (4)

2009 Program Accomplishments

P-3s	Hurricane FIP, research and reconnaissance, Ocean Winds Winter/Summer, Outreach
G-IV	T-PARC Winter, Winter Storms Reonnaissance, Hurricane FIP, research and surveillance
Twin Otters	NERW, SERW, COMIDA, BWASP, BOFEST, Sea Turtles, Delphinids, Stellar Sea Lions, CSD LIDAR, LMR
Citation	Coastal Mapping, GRAV-D
Turbo Cmdr	Snow Survey, Harbor Seals, Stellar Sea Lions
Shrikes	Snow Survey, Harbor Seals, Stellar Sea Lions
King Air 350	RSD, Coastal Mapping
All	Training, Public Outreach

FY09 Hurricane Summary

• P-3	197.1 hours	39 flights
• G-IV	169.6 hours	28 flights
Total	**366.7 hrs.**	**67 flights**

FY08 Hurricane Summary

- P-3 422.1 hours 64 flights
- G-IV 192.1 hours 26 flights
- D.A. 75.2 hours 25 flights

Total	**689.4 hrs.**	**115 flights**

FY07 Hurricane Summary

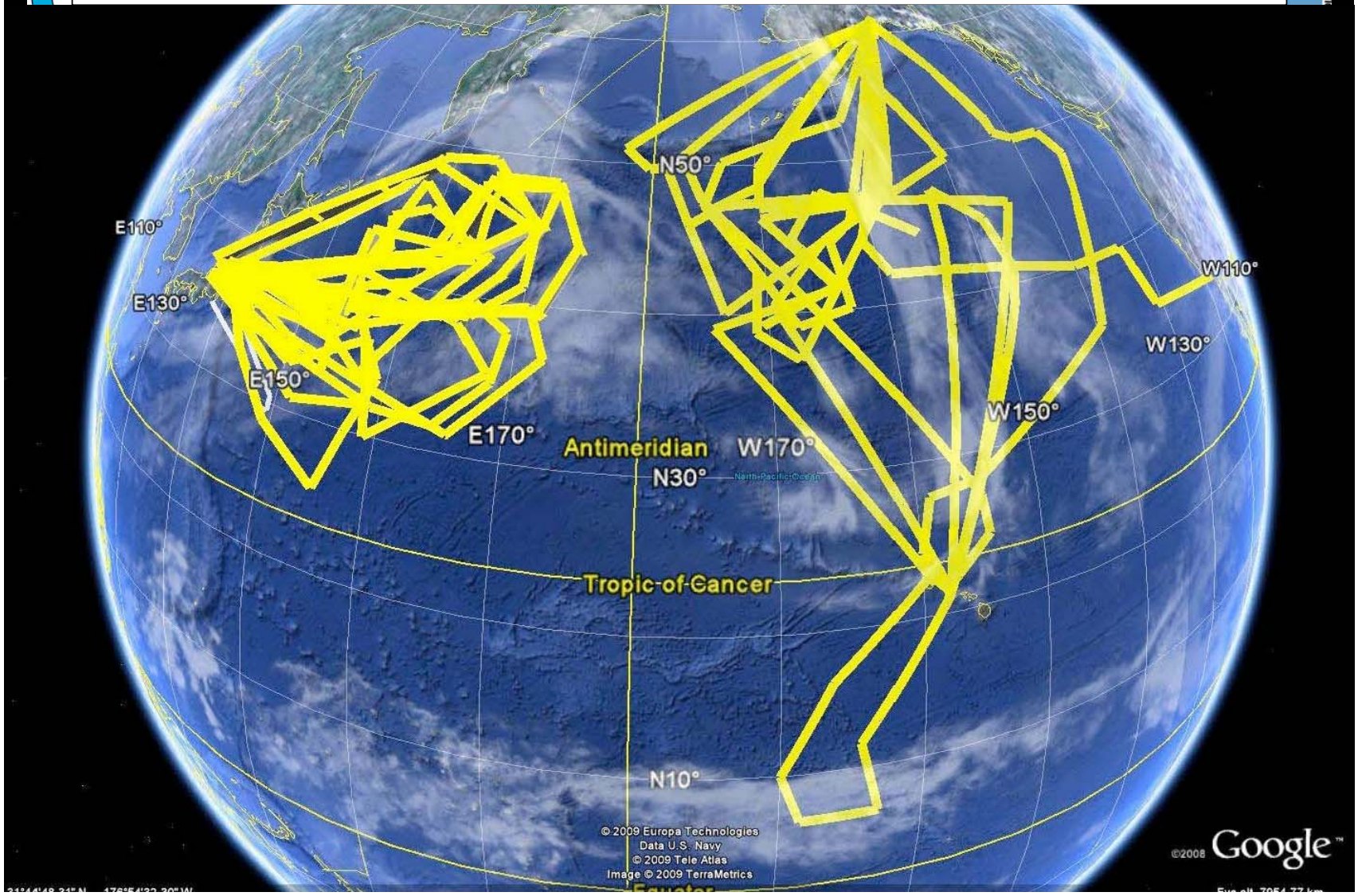
- P-3 207.9 hours 37 flights
- G-IV 64.8 hours 9 flights

Total 272.7 hrs. 45 flights

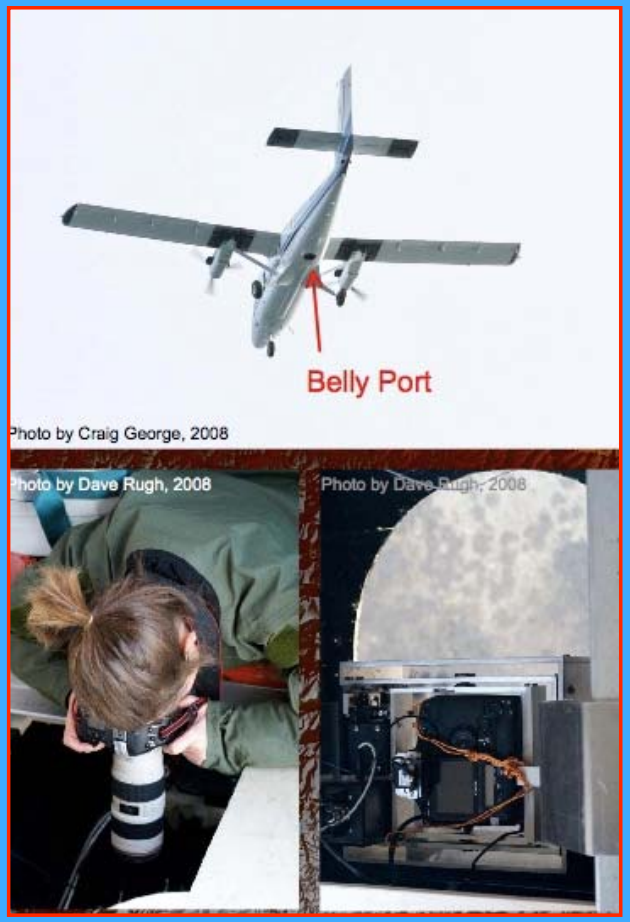
AOC HFIP Activities FY09

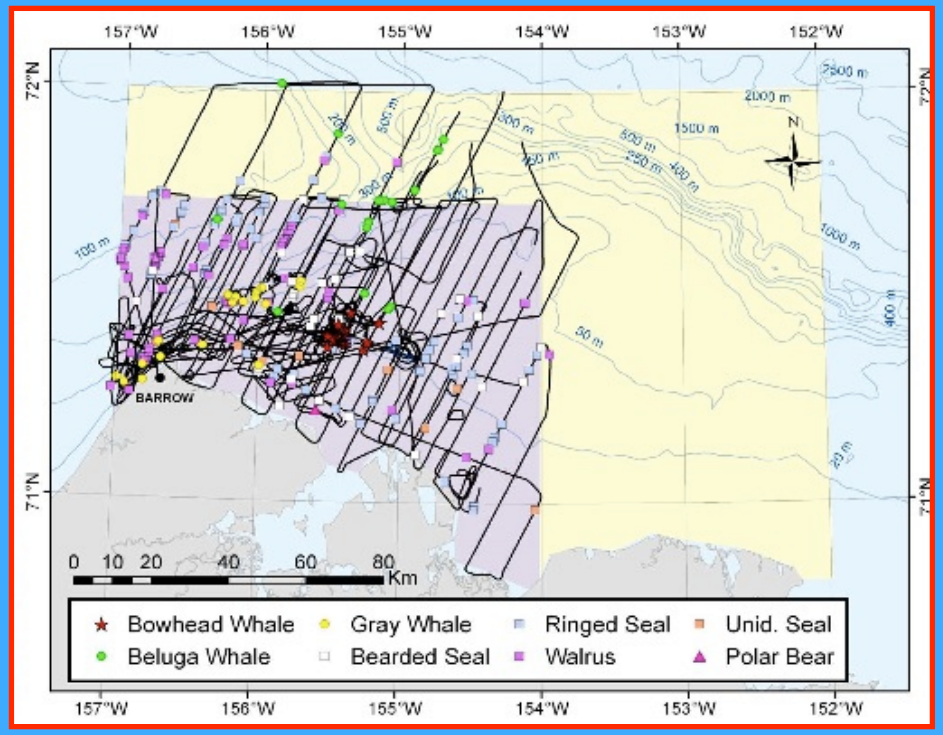
1. Flight Hour and Expendables: $1,507,391
   - 100 flight hours purchased/101.5 hrs. flown
   - $618.5K for dropsondes resulted in 900 sondes at combined old and new prices.
   - $150K for AXBT rcvrs. deferred to FY10.
   - $290K for AXBT/AXCP and AXCTDs - 60 AXCPs for $98,312 ordered and received.
   - One AXBT Gulf survey mission flown in FY09.
   - FY09 totas were 67 flts. For 366.1 hrs.

T-PARC / WSR2009

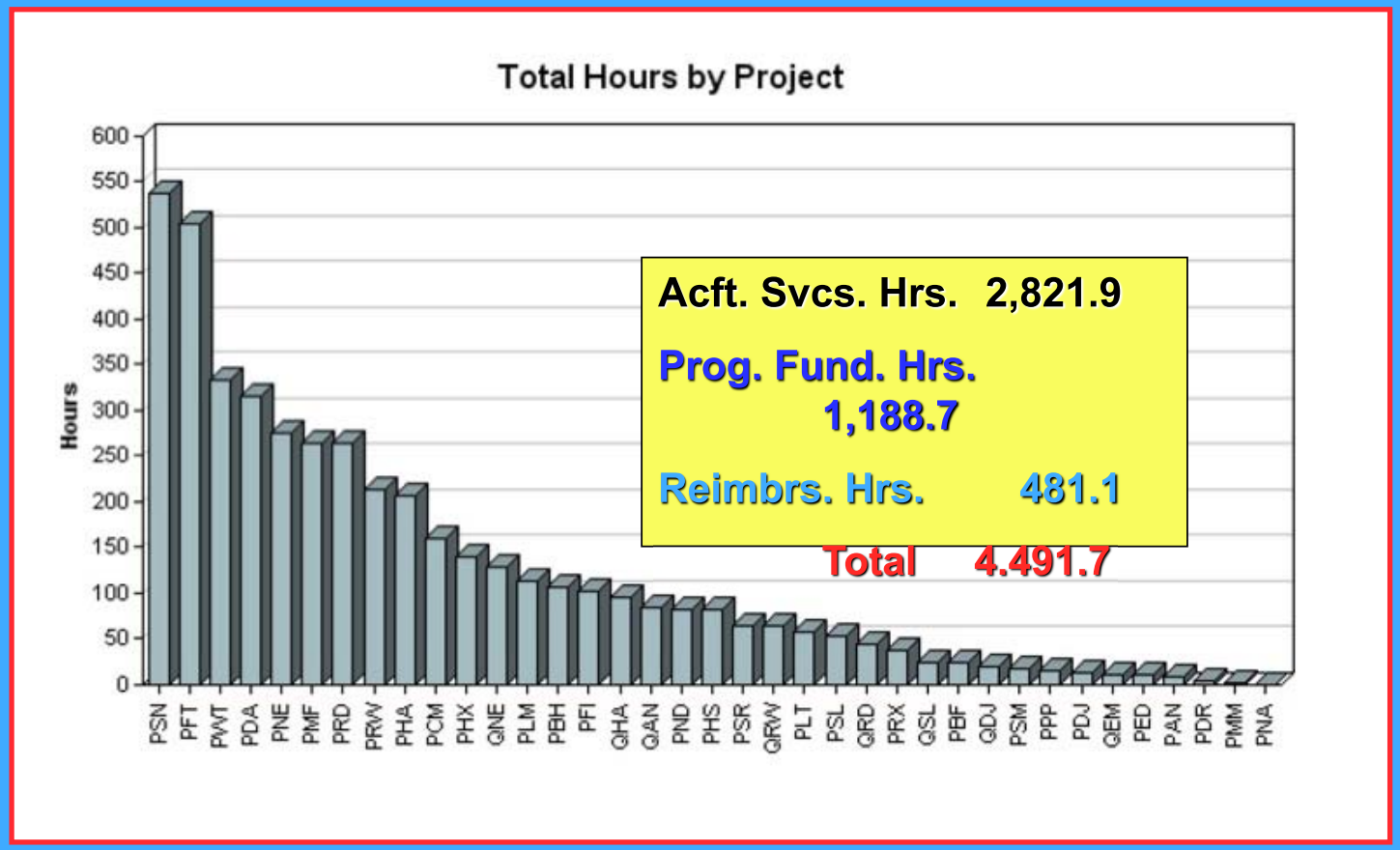


Bowhead Whale Feeding Ecology Study (BOWFEST)





FY09 Flight Hours



FY09 Heavy Aircraft Goals

- ***AOC focuses FY09 on the Service Depot Level Maintenance of the WP-3D N42RF, installation of P-3 and G-IV radar modifications, upgrades to P-3 high-speed satcom system, installation of the new aircraft data systems, integration of the new dropsonde system, completion of the 3rd P-3 overhaul, rollout of the Citation replacement King Air 350, and integration of these two aircraft in FY 09.***

FY10 Plans

- 2435 Acft. Svcs Flt. Hrs.
- 2080 Pgm./Reimb Flt. Hrs.
- 680 Hr. Hurricane Ops. (P-3/G-IV)
- L.A. Basin Air Qual Study (P-3)
- 310 Hr. Winter Storm Ops. (G-IV)

FY10 Issues

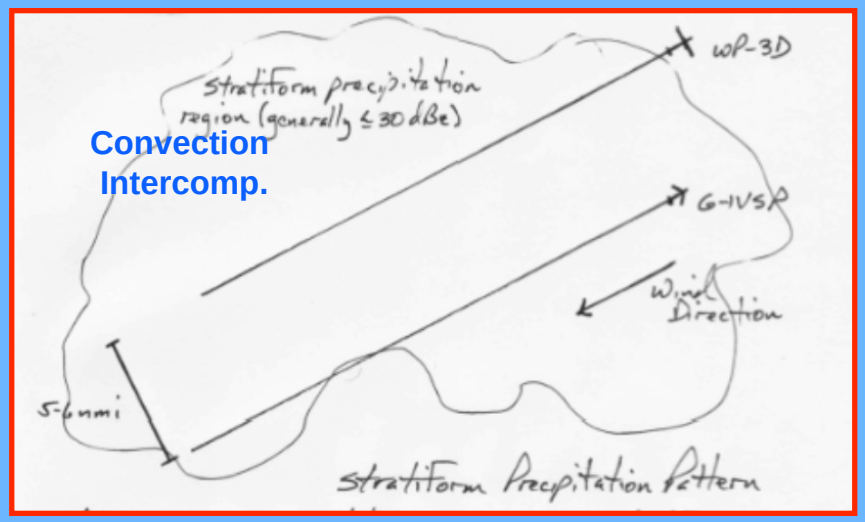
- **3rd P-3 Delivery**
- **G-IV Tail Doppler Radar**

Foam (AFFF) Incident at IMP May 18, 2008

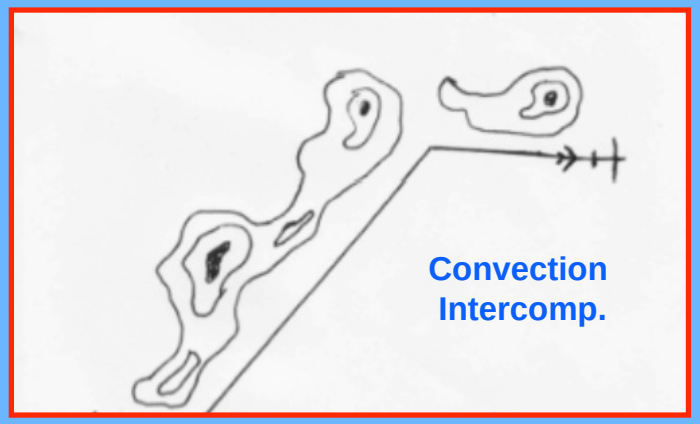
Picture Taken Sunday night by Dave Gossen
He was one of the First Responders

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

G-IV OSAT Flight Profiles

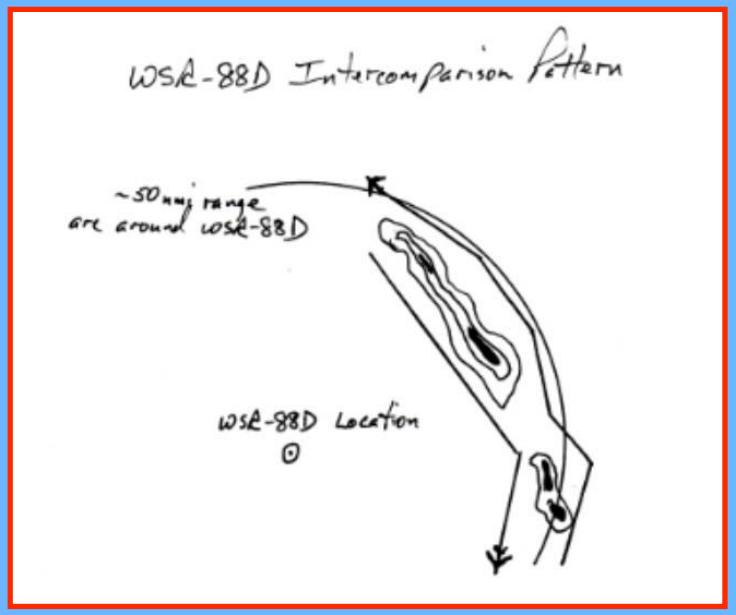


Convection Intercomp.



Convection Intercomp.

WSR-88D Intercomparison



FY10 Issues

- 3rd P-3 Delivery
- G-IV Tail Doppler Radar
- P-3 Radar Upgrade
- Data System Upgrade (AAMPS)
- Hi-speed SATCOM upgrade

TOR #5 Proposal

ISPRS

Commission I - Image Data Acquisition – Sensors and Platforms, 2008-2012

WG I/1: Standardization of Airborne Platform Interface

TOR #5

Mission: Support the regulatory agencies in supporting airborne science sensor certification and approval requirements for Lidar, Dropsonde, and electromagnetic spectrum emissions.

Goals: To work with the regulatory agencies of participating nations to foster a better understanding among these groups of the importance of these airborne sensors to environmental research and the efforts put forth to insure their safe operation with the ultimate goal of achieving certification for their use aboard airborne platforms.

Approach:

1. To **catalog** those sensors that require certification for use onboard airborne platforms, such as manned aircraft, UASs and balloons.
2. To **determine** the agencies by country which govern the certification of these sensors.
3. To assess the **degree of difficulty** in the certification process.
4. To **stratify** by country and complexity the certification process for all required airborne sensors.
5. To determine the **priority** of each sensor requiring certification.
6. To **distribute** among the TOR #5 members the task of working with the requisite regulatory agencies in securing the required certifications.
7. To **collate** the final certification information and **generate** a document for presentation and distribution to the international scientific community.

CONTROLLED TOWED VEHICLE

POD MOUNTED OR INTERNALLY DEPLOYED?