ICCAGRA Meeting
21 May 20008, Arlington, VA

NOAA Aircraft Operations Center

MacDill AFB, FL

- National Weather Service
- National Ocean Service
- Oceans and Atmospheric Research
- Nat'l Marine Fisheries Service
- Nat'l Envir Sat Data and Info Svc.
- Office of Marine and Aviation Ops.

AIRCRAFT OPERATIONS CENTER

COMMANDING OFFICER: CAPT Brian Teppert *
EXECUTIVE OFFICER: Don Aiken *

Admin Specialist PA & Outreach
Lori Best

SCIENCE & ENGINEERING BRANCH
Alan Goldstein, Chief *
Janie Wilson, Secretary

ENGINEERING SECTION
Jim Rolles, Chief *
Electronics Engineers
Jorge Delgado
Joe Greene
John Hill
Jeff Smith
Vacant
General Engineers
LCDR Will Odell
Vacant
Vacant

SCIENCE SECTION
Vacant, Chief*
Computer Specialist
Leonard Miller
Meteorologists
LTJG Jackie Almeida
Barry Damiano
Paul Flaherty
Marty Maysaux
Jack Parrish
Tom Shepherd
Vacant

TECHNICAL SECTION
Jim Barr, Chief *
Aerospace Eng Techs
Jim Brewer
Dave Fox
Andy Hornback
Wayne Pullen
Electronics Eng Techs
Joe Scalio
Dale Carpenter
Chris Churylo
Gabriel Defeo
Terry Lynch
Sean McMillan
Dana Nasher
Bill Olney
Bobby Peek
Charles Rasco
Mark Rogers
Damon Sens Souci

OPERATIONS BRANCH
CDR Michele Finn, Chief *
CDR Barry Choy, Dep Ch *
Kristy Wheless, Secretary

FLIGHT SECTION
LCDR Al Grimonte *
Flight Management
LCDR Joe Bishop *
LT Nicole Cabana
LT Ryan Kidder
LT Amelia Ethardt
NWS Snow Survey Program
LT Dave Demers *
LTJG Patrick Didier
LT Jason Seifert
NOS RSD Program
LCDR Adam Dunbar
LT Jon Neuhaus
NMFS Prot Races Program
CDR Gregg LaMontagne
Training
LCDR Mark Sweeney
LT Nickie Lambert
LTJG Jason Mansour
Initial Flight Training
Vacant

MAINTENANCE SECTION
LCDR Tim Gallagher*
Assistant Maint Chief
LT Kristie Twining
Maintenance Officers
LTJG Jon French
LTJG Steve Kroening
LT Wally Pierce
Quality Assurance
Vacant
Production Controller
Greg Bast, Supv *
Aerospace Engineer Techs
Paul Darby
Glen Franke
Randy Mitchell
Vacant
Equipment Specialists
Dewie Floyd
Gordon Kitson
Joe Klippel
Mike Merek
Ron Pauley
Kevin Rotavoel
Steve Wade

ADMINISTATIVE OFFICE
CDR John Longenecker*

Staff Officers
LCDR Gregg Glover
LCDR Carl Newman

SAFETY STAFF
CDR Jeff Hagan, Chief *
LCDR Mark Nelson
LT Shawn Taylor
LT Nick Toth
Contracted Support
Jon Dixon

PROGRAMS & PROJECTS STAFF
Jim McFadden, Chief *
Program Managers
LT Phil Eastman
LT Doug MacIntyre
LCDR Peter Siegel

SUPPORT SERVICES STAFF
Vacant, Chief*
MIS Support
Jason McCombs
Mike Perez
Facilities Maintenance
Bud Thurston
Supply
Jeff Carlson
Deanna Whalen
Diane Young

BUDGET MANAGEMENT STAFF
Vacant, Chief*
Budget Analysts
Vacant
Vacant
Management Analysts
Patty Marek
Millie Negron
Purchasing Agent
Vacant

* Supervisory

As of: Monday, May 05, 2008

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AOC FACILITIES

MACDILL AIR FORCE BASE, FL.

HANGAR #5 MacDILL AFB

ED STATES DEPT. OF COMMERCE
UNITED STATES DEPT. OF COMMERCE
NOAA
N46RF

ICCAGRA - 2008

AOC AIRCRAFT

AIRCRAFT OPERATIONS CENTER AIRCRAFT 2008

Aircraft Support for NOAA Programs

Aircraft are specially modified and equipped to support NOAA programs:

HURRICANE RESEARCH

HURRICANE RECONNAISSANCE

CLIMATE AND GLOBAL CHANGE

AIR QUALITY RESEARCH

NAUTICAL & AERONAUTICAL CHARTING

SNOW MELT SURVEYS

MARINE MAMMAL SURVEYS

Twin Otter

N46RF, N48RF
N56RF & N57RF

Crew:	2-6
T.O.W:	12,500 lbs.
Speed:	150 knots
Ceiling:	26,700 ft.
Range:	900 nm
Endurance:	6.5 hours
Engines:	620 shp Pratt & Whitney Turboprops (2)

Twin Otter Missions

- Marine Mammal Research
- Fisheries Assessments
- LIDAR Terrain Mapping
- Air Chemistry
- Airport Surveys

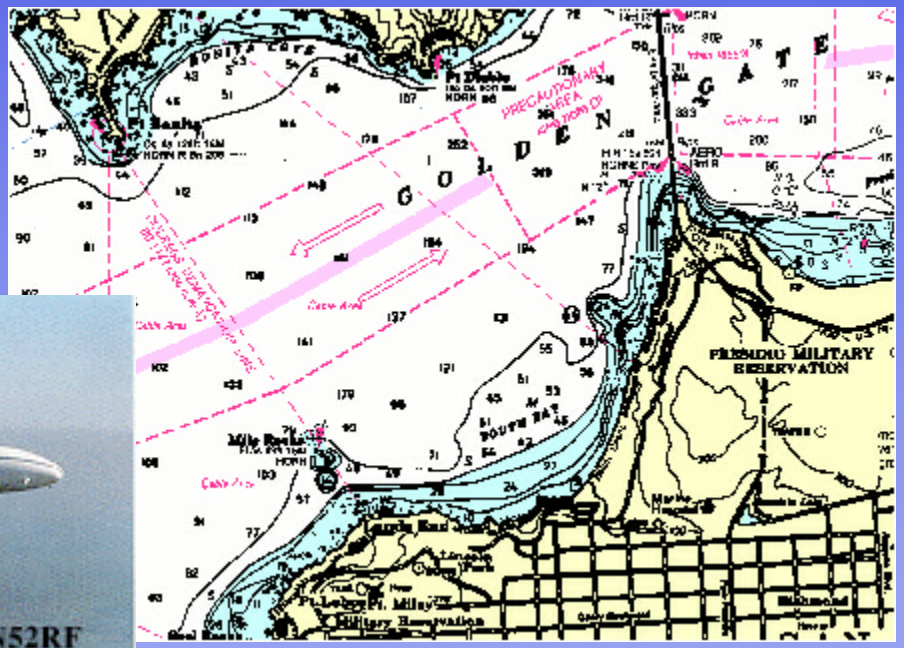
Citation II

N52RF

Crew:	3
T.O.W:	14,600 lbs.
Speed:	350 knots
Ceiling:	43,000 ft.
Range:	1600 nm
Endurance:	5 hours
Year Built:	1978
Engines:	Turbojet (2)

Citation Missions

- Coastal Mapping
- High Altitude Photogrammetry
- Airport Photography
- Remote Sensing



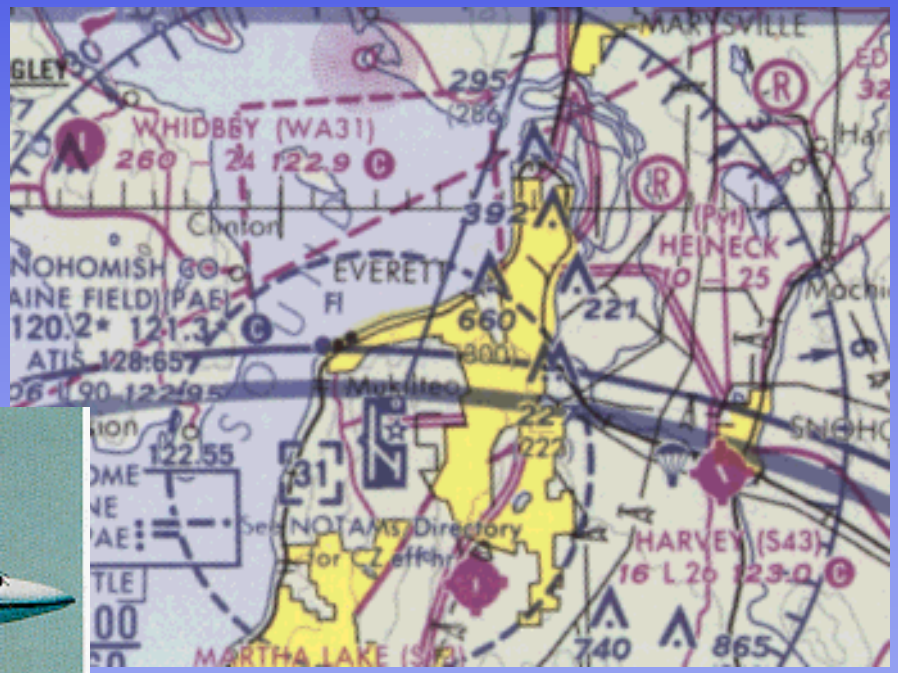
Turbo Commander

N45RF

Crew:	3
T.O.W:	10,250 lbs.
Speed:	250 knots
Ceiling:	31,000 ft.
Range:	1,100 nm
Endurance:	5 hours
Engines:	750 shp Garrett Turboprops (2)

Turbo Commander Missions

- Photogrammetry
- Obstruction Charting
- Coastal Mapping
- Snow Survey



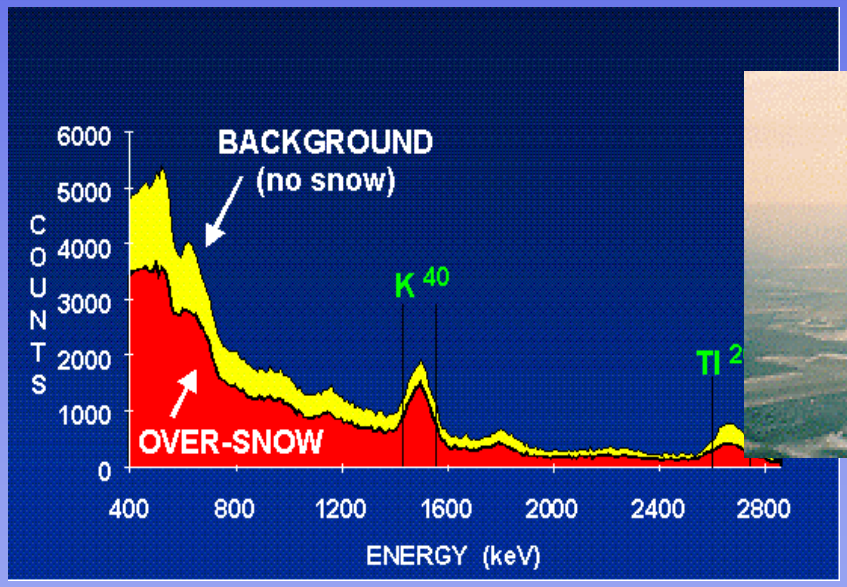
Shrike Commander

N47RF & N51RF

Crew:	2
T.O.W:	6,750 lbs.
Speed:	150 knots
Ceiling:	29,400 ft.
Range:	750 nm
Endurance:	5 hours
Year Built:	1977, 1975
Engines:	290 hp Lycoming Reciprocating (2)

Shrike Missions

- Snow Survey
- Fisheries Assessments
- Flight Edit



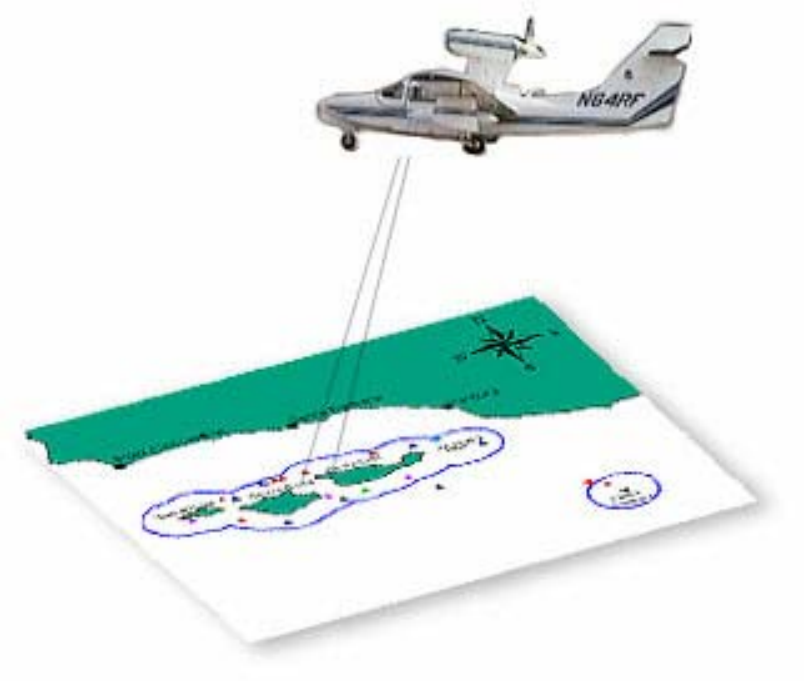
Seawolf

N64RF

Crew:	2
T.O.W:	3,700 lbs.
Speed:	135 knots
Ceiling:	19,000 ft.
Range:	1,500 nm
Endurance:	12 hours
Year Built:	1992
Engines:	290 hp Lycoming Reciprocating (1)

Seawolf Missions

- National Marine Sanctuary Support
- Fisheries Assessments
- Pilot Training



WP-3D Orion

N42RF & N43RF

Crew:	12-20
T.O.W:	135,000 lbs.
Speed:	330 knots
Ceiling:	27,000 ft.
Range:	3,300 nm
Endurance:	10 hours
Year Built:	1975 - N42RF; 1976 - N43RF
Engines:	4,600 shp Allison Turboprops (4)

WP-3D Missions

- Hurricane Research & Reconnaissance
- Air Chemistry Research
- Severe Storm Research
- Global Climate Research
- Cloud Physics Research

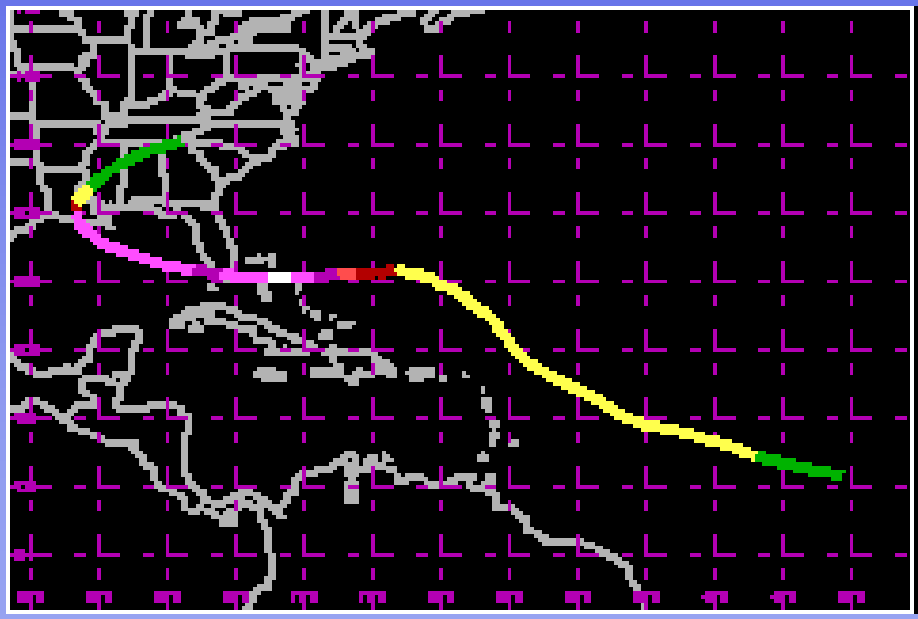
Gulfstream IV

N49RF

Crew:	12
T.O.W:	77,000 lbs.
Speed:	.8 Mach
Ceiling:	45,000 ft.
Range:	4,075 nm
Endurance:	9 hours
Year Built:	1996
Engines:	Rolls Royce Turbofans (2)

Gulfstream IV Missions

- High Altitude Weather Research
- Atmospheric Research
- Hurricane Surveillance
- Hurricane Research



Aircraft Inventory

Manufacturer	Model	Engines	Qty.
Lockheed	WP-3D	4 Turboprop	2
Gulfstream	G-IV	2 Turbofan	1
Cessna	C-550	2 Turbofan	1
DeHavilland	DHC-6	2 Turboprop	4
Rockwell	AC-690	2 Turboprop	1
Rockwell	AC-500	2 Piston	2
Lake	LA-250	1 Piston	1
Beechcraft	King Air 350	2 Turboprop	1
Lockheed	P-3	4 Turboprop	1

King Air Missions

- Coastal Mapping
- High Altitude Photogrammetry
- Airport Photography
- Remote Sensing

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N44RF at IMP Halifax, NS

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FY08 PROGRAMS

FY08 Flight Hours

- AOC Funded - 1972 Hours

- Light Aircraft Allocation - **892** hours

  NWS Snow Survey

  NOS Coastal Mapping

- Heavy Aircraft Allocation - **1080** hours

  NWS Hurricane Surveillance

  NWS Hurricane Reconnaissance

  NWS Winter Storms

  OAR Hurricane Research

  OAR Air Quality (ARCPAC)

  NESDIS Ocean Winds

Original FY08 Planned Schedule

Aircraft Services Hours

Aircraft	Project	Flt. Hrs.
N42RF	Winter Storms	178
	Hurr. Recco	180
	OW Summer	130
	Total	488
N43RF	Hurr. Rsch.	50
	Hurr. Recco.	181
	ARCPAC	12
	Total	356
N49RF	Hurr. Surv.	236
N45RF	Snow Survey	402
N51RF	Snow Survey	192
N52RF	RSD	298
Total Aircraft Svcs. Hrs.		**1972**

TOTAL AIRCRAFT HOURS = 4051

Program Funded Hours

Aircraft	Project	Flt. Hrs.
N46RF	SERW	270
	NERW	240
		510
N48RF	NERW	310
	Bathymetric LIDAR	60
	COMIDA	60
	CSD LIDAR	50
	BOWFEST	70
		550
N56RF	BWASP	152
	Steller Sea	105
	Pacific Sea Turtles	140
		397
N57RF	GOMEX	120
	AK Harbor	50
	NPRW	140
		310
N45RF	AK Snow Survey	100
N47RF	AK Harbor Seals	80
N51RF	AK Harbor Seals	80
N64RF	Channel Is.	52
Total Program Hours		**2079 Hrs.**

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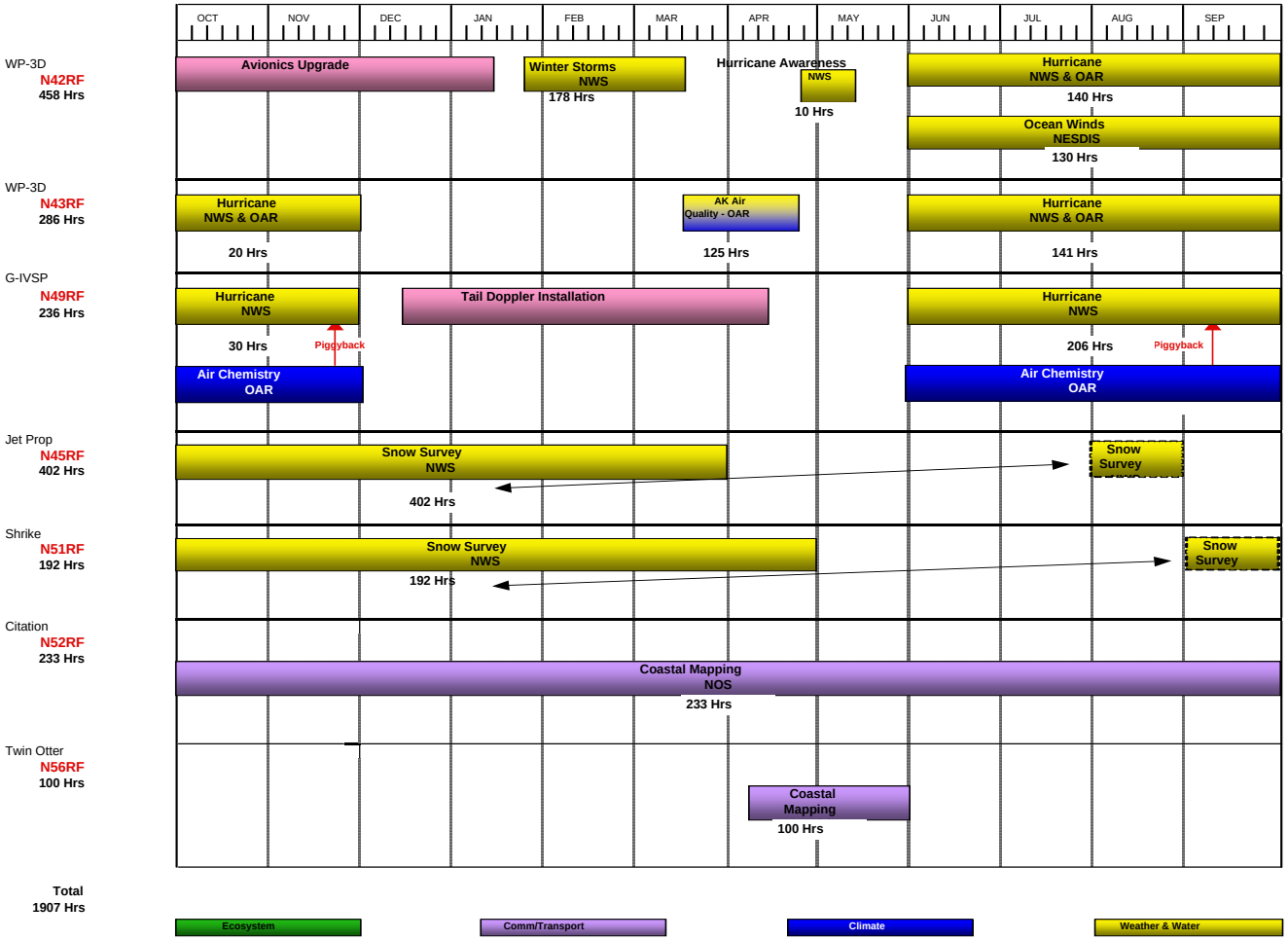
FY08 Allocation Plan

NOAA AIRCRAFT SERVICES FUNDED PROJECTS



Approved by: _____ Date: _____

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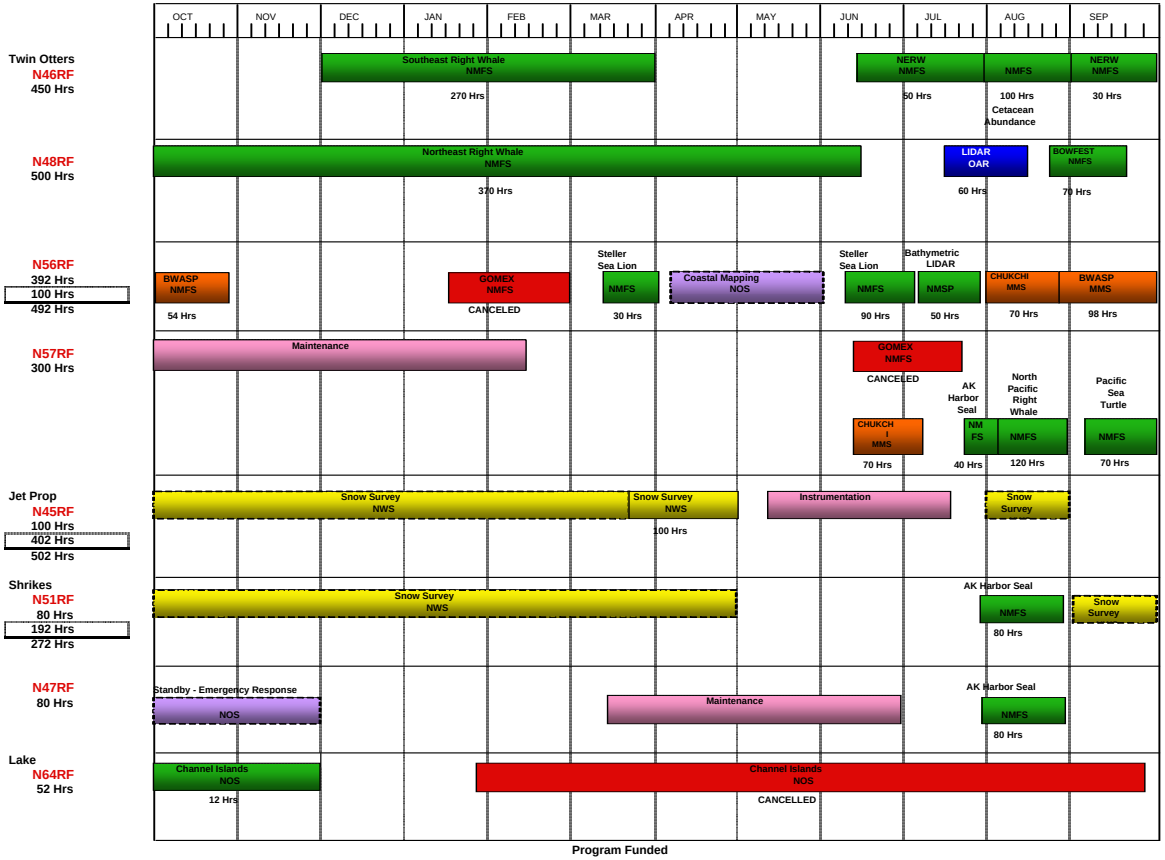
NOAA PROGRAM FUNDED HOURS



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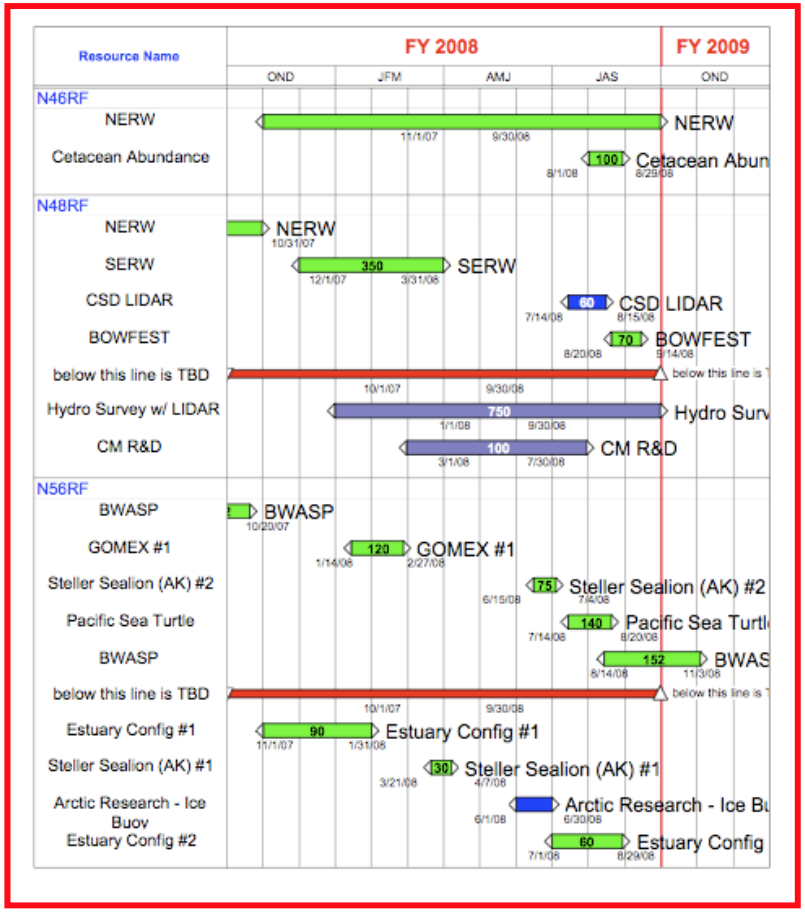
NOAA TWIN OTTER SCHEDULE



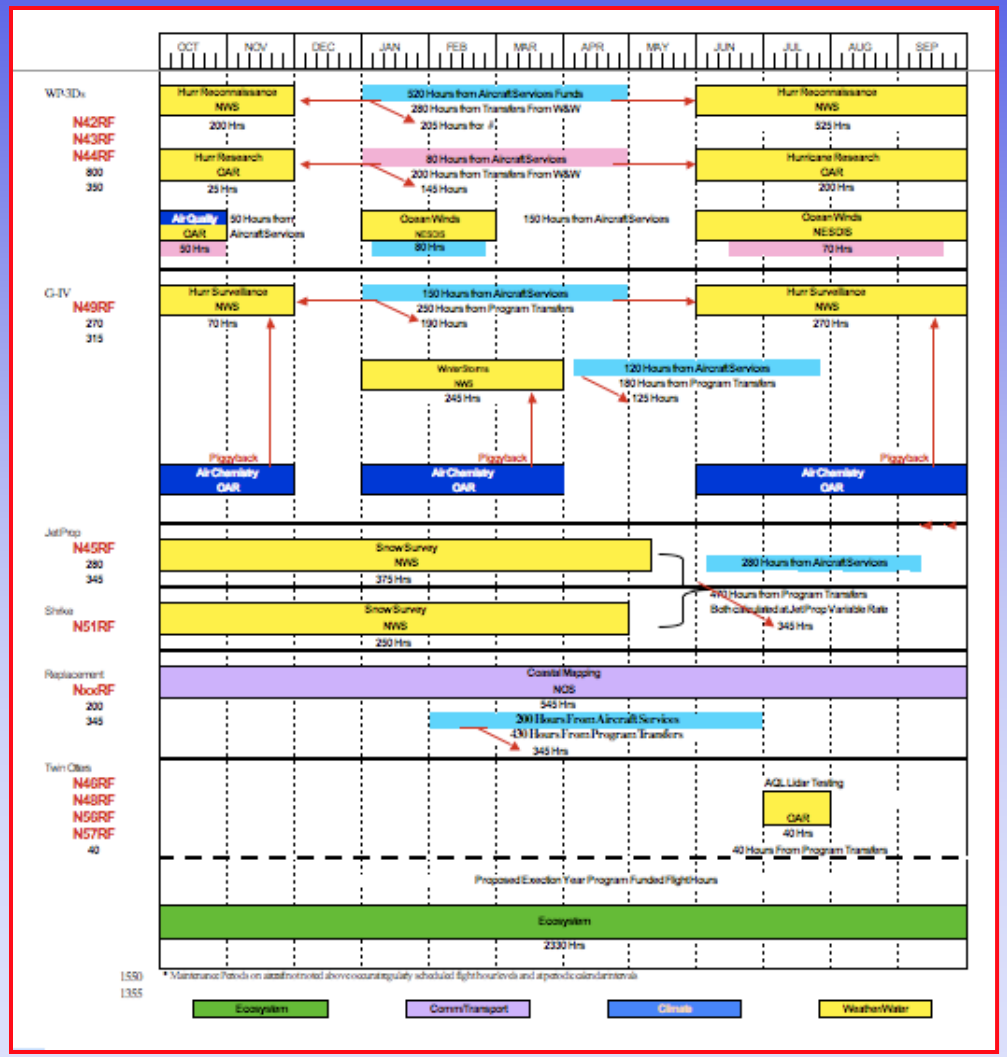
ICCAGRA 2007

FY09 OUTLOOK

ICCAGRA 2008

FY09 Acft Svcs. Time

LO/Aircraft	Project	Hrs.
NWS: G-IV	Hurricane Su	340
NWS: P-3	Hurricane Re	725
NWS: G-IV	Winter Storm	245
NWS: Turbo	Snow Survey	375
NWS Shrike	Snow Survey	250
NESDIS: P-3	Ocean Winds	75
NESDIS: P-3	Ocean Winds	75
OAR: P-3	Hurricane Re	225
OAR: P-3	Air Quality	50
OAR: Twin (	AQ:LIDAR	40
NOS: Citatio	Coastal Map	445
	Total	2845



NEW FOR FY08

- New Commanding Officer - CAPT Brian Taggart
- Complete New Hi-speed SATCOM Upgrade
- Begin P-3 Radar Upgrade
- Completed P-3 Avionics and Navigation Upgrade

New for FY08

DME
11.4
MAG
089
INU1/GPS
75.0
LBV
E
6
12
138
160
WIND
207/015
FMS1
VOR1
FMS1
01.00
DTK
140
080
090
100
20
20
10
10
10
10
FMS1
01.00
ALT
ALT SEL
1200
PUSH
SEL
ALT
SEL

NEW FOR FY08

- New Commanding Officer - CAPT Brian Taggart
- Complete New Hi-speed SATCOM Upgrade
- Begin P-3 Radar Upgrades
- Completed P-3 Avionics and Navigation Upgrade
- Begin P-3/G-IV Data System Upgrade - AAMPS
- Continue development of 4Hz dropsonde and data system

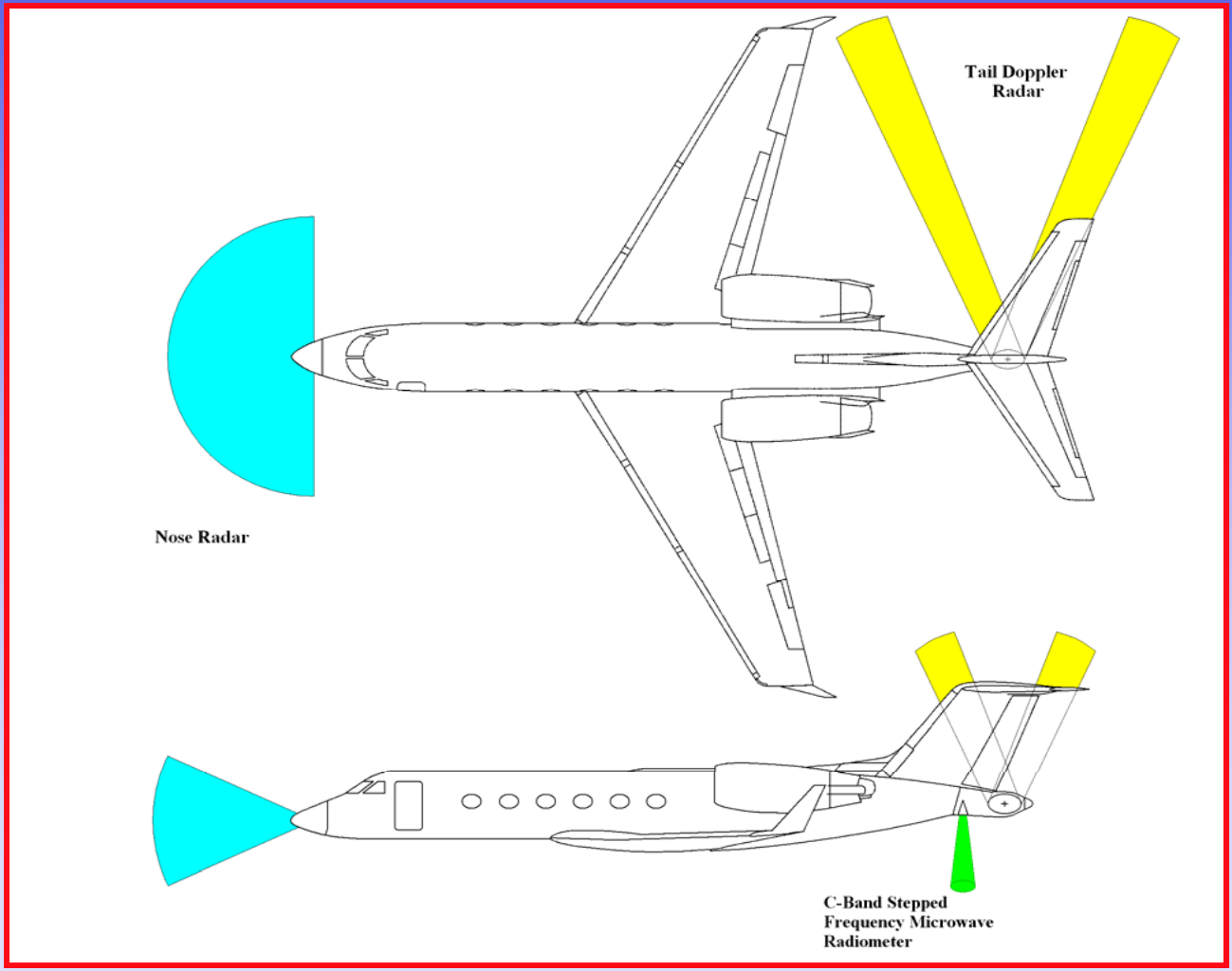
FOR FY09

- Compete acquisition of the NOAA King Air
- Complete P-3 Radar Upgrades
- Complete P-3/G-IV Data System Upgrade - AAMPS
- Complete Depot Maintenance on N44RF and Perform System Integration of Basic Hurricane Instrumentation
- Complete certification of G-IV Tail Doppler Radar

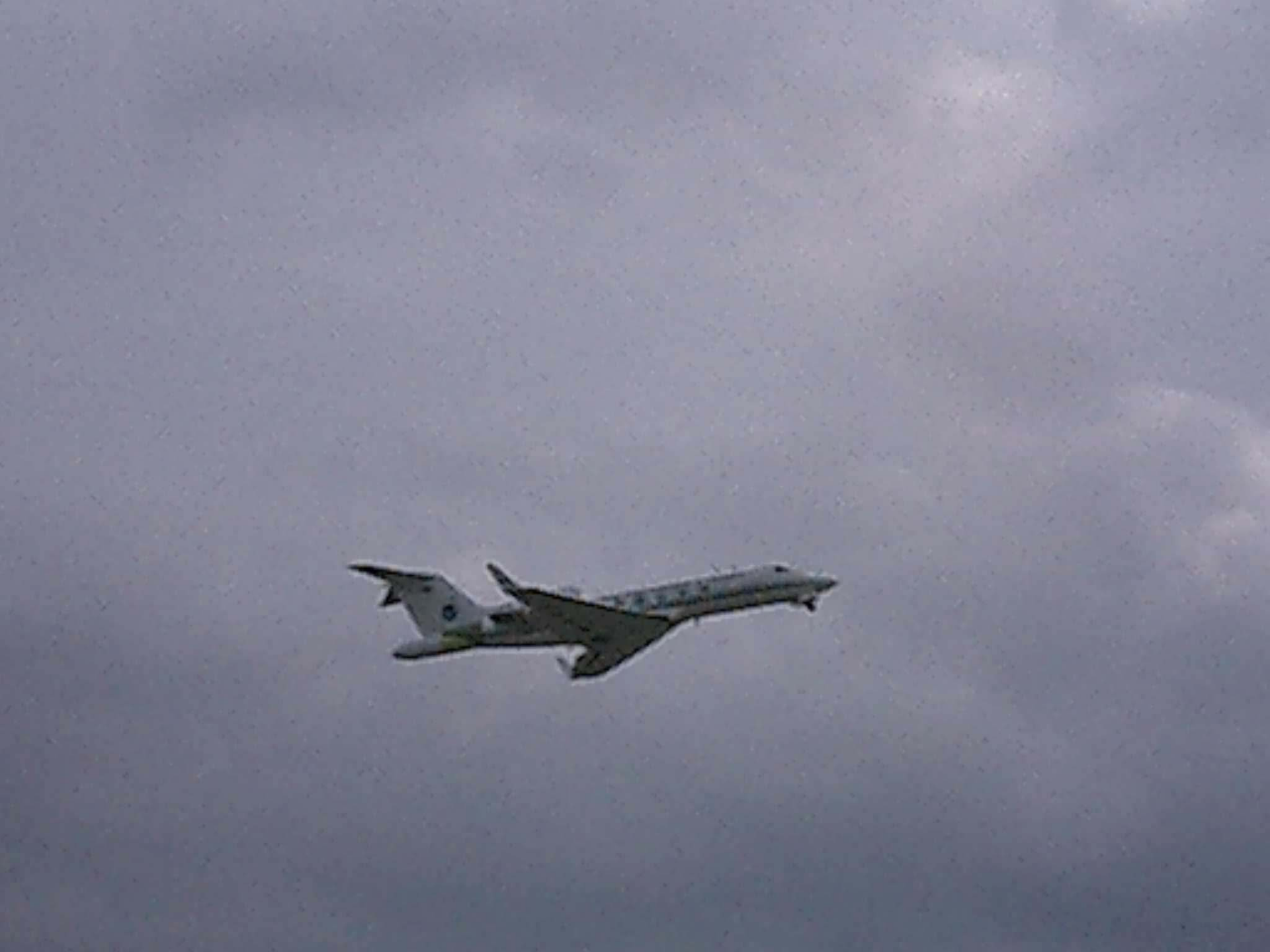
G-IV TAIL DOPPLER RADAR

- Installation and testing to occur during 2008 Winter Storm period.

- Working in test mode in 2008 hurricane season; operational in 2009.



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



Summary

Web Site: http://www.aoc.noaa.gov/

- Highly trained personnel
- Unique, specialized aircraft
- Scientific support
- Mission Accomplishment
- Customer Satisfaction