



Aviation Weather Community Forum

Opening Remarks

April 14 , 2009

**Bob Maxson, Director
Aviation Weather Center**

Welcome!

➔ National Weather Service

➔ Directors: NWS, NCEP & SPC

➔ Offices: SWPC, CWSUs, AAWU

HFO, WFOs, OCWWS, OST



➔ NOAA OAR

➔ FAA

➔ DoD

➔ JPDO

➔ Air Carriers



Welcome!

- AOPA
- NCAR
- Academia
- Industry
- Flying Public





Forum Goals

- ➔ **Enhance Aviation Safety**
- ➔ **Energize AWC Customer Service and Partner Collaboration Efforts**
- ➔ **Bring Users and Producers of Aviation Weather Information Together**
- ➔ **Help us Make Sure We've Got It Right...**

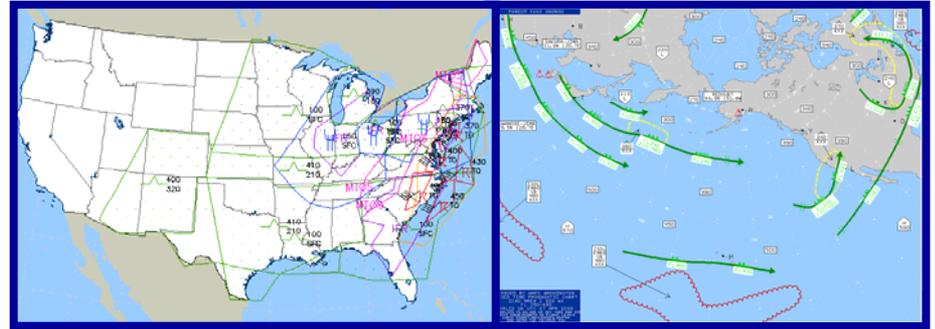
Who is the Aviation Weather Center?

- **38 Operational Forecasters**
- **9 Support Staff**
- **8 Support Contractors**
- **1 NOAA Corps Officer**
- **7 Management Staff**



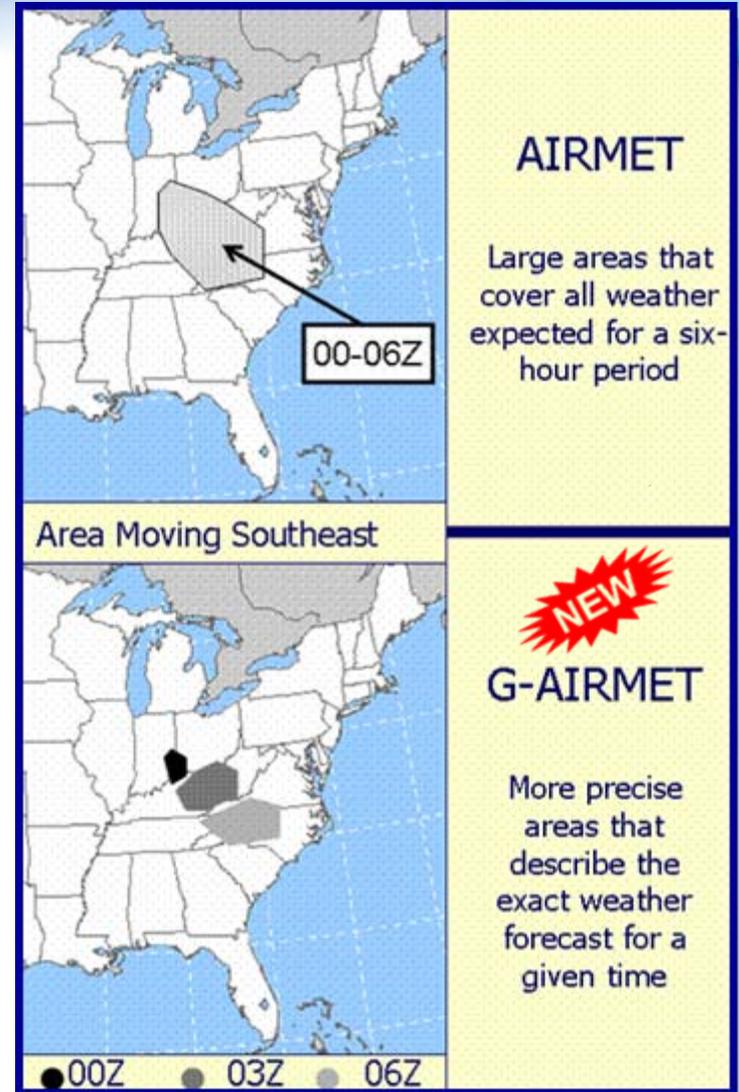
AWC Products

- **Aviation Weather Forecasting – A Lot of It!**
- **SIGMETs**
- **AIRMETs**
- **Area Forecasts (FA)**
- **Collaborative Convective Forecast Product**
- **Global Significant Weather (World-Wide)**
- **Domestically and Globally 24/7/365**
- **Over 33,000 SIGMETs alone issued last year...**



G-AIRMET

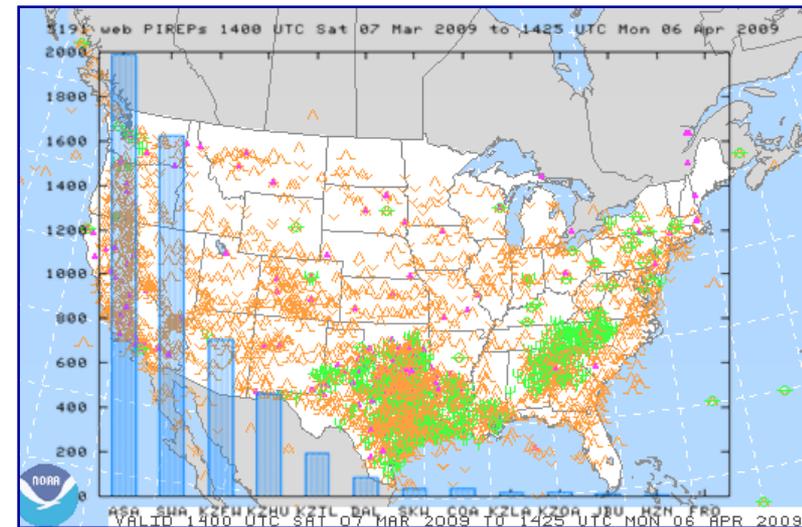
- Graphical AIRMETs
- Produced Operationally
- Deemed experimental product by FAA
- FAA is conducting the process by which G-AIRMET can be made a primary product
 - Scheduled to be complete by Oct 2009
 - FAA safety assessment is underway



AWC Services

- Aviation Digital Data Service
- Aviation Weather.gov
- International Flight Folder Documentation Program (IFFDP)
- Web PIREP Submit →

@dds

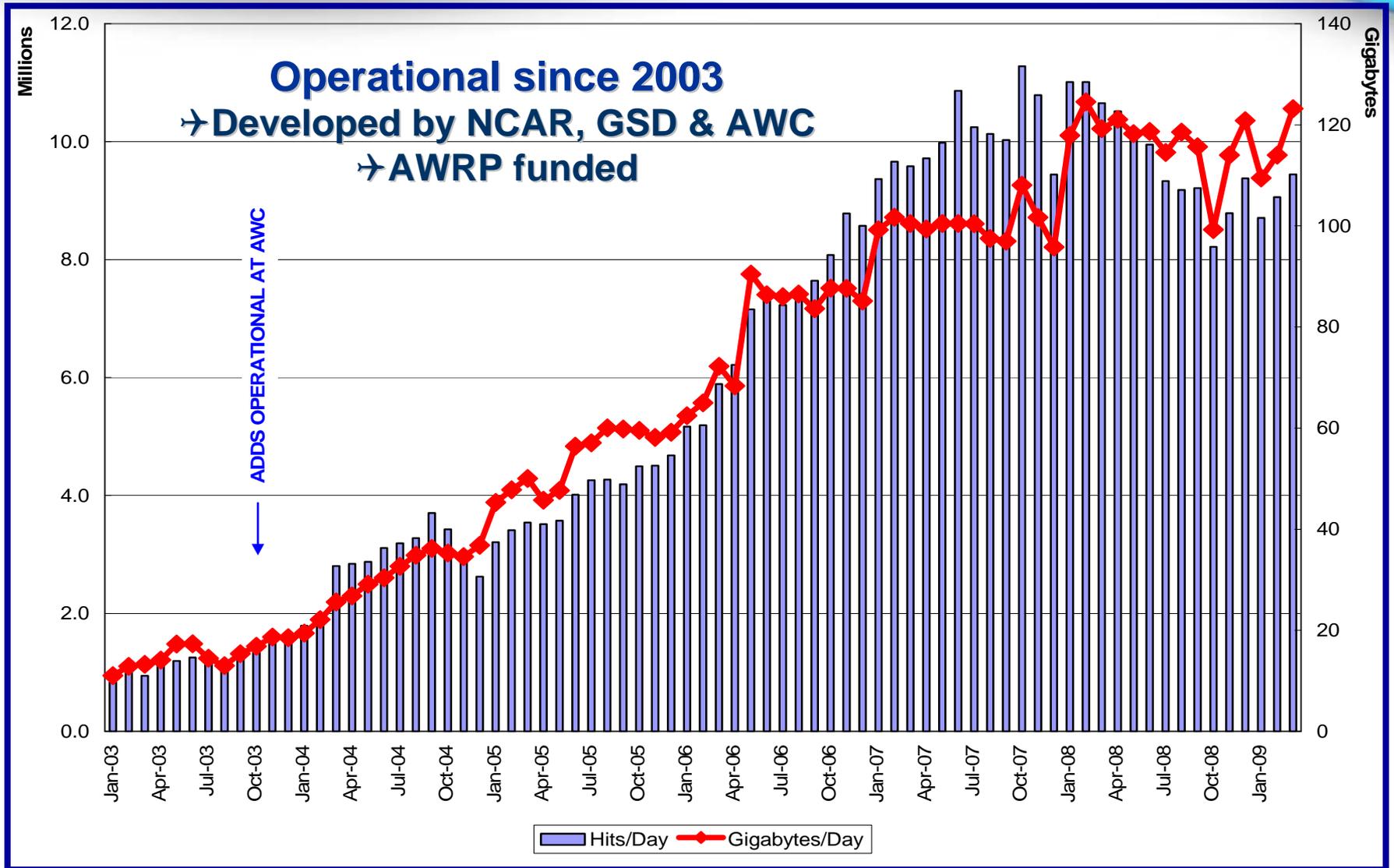


NOAA's National Weather Service
Aviation Weather Center

weather.gov



ADDS Popularity



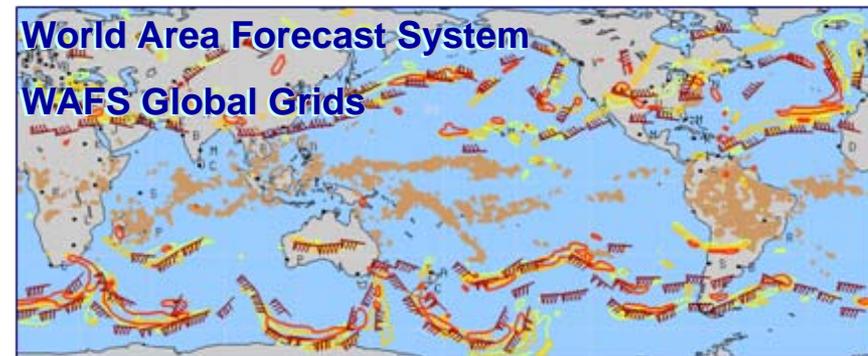
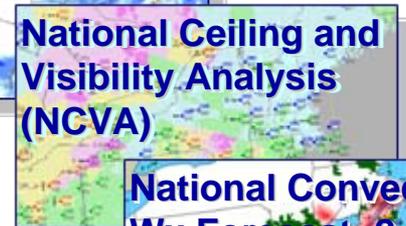
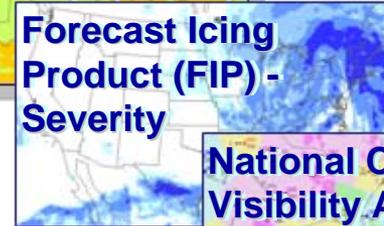
Aviation Weather Testbed

- **Energize the Aviation Weather Testbed**
 - **Major AWC effort in 2009**
- **Past decade much success with AWRP R↔O**
- **Expanded Focus**
 - **Deliver innovative science and technology**
 - **Support the enhancement of aviation decision support capabilities**
 - **Maintain and improve linkages with customers and partners**

Research-to-Operations (R↔O)

NextGen is calling!

- AWRP Algorithms
- National Weather Service
 - WAFS Global Grids “High Glance”
 - FAA & WAFCs Washington & London
 - Integration of hourly SREF & Enhanced Thunder into CCFP
 - NCEP: SPC, NCO & EMC
 - Space Weather effects/hazards on aviation
 - NCEP: SWPC
- Enhanced CWSU Decision Support Software



Legacy Products?

AIRWAY FOR		FORECASTS TODAY	UPPER AIR WINDS					
			ALTITUDE <small>(FEET ABOVE SEA LEVEL)</small>	SAN DIEGO	VAIL FIELD	LEBEC	FRESNO	HOLIESTE
SAN FRANCISCO	BAY REGION. Clear skies surface	gentle to moderate westerly winds aloft.	0	Cal m	X	X	N 5-7	X
OAKLAND TO MEDFORD.	Clear skies, portion mostly north	except broken low clouds over north this forenoon. Gentle variable winds, easterly.	140	X		X	X	X
MEDFORD TO PORTLAND.	Considerable south portion southwest	cloudiness throughout. Local canyon fog until midday gentle to moderate winds aloft.	285	X	X	X	X	X
PORTLAND TO SEATTLE.	Low clouds, southwest	occasional showers	357	X	X	X	NNW-5	X
OAKLAND TO RENO.	Clear skies, gentle aloft.	variable winds	700	N-5		X	X	X
RENO TO SALT LAKE.	Clear skies,	gentle	1000	X	X	X	NW-6	
OAKLAND TO FRESNO.	Clear skies,	gentle variable winds aloft.	1375	NNW-7		X	NW-7	
OAKLAND TO LOS ANGELES.	Clear skies, gentle aloft.	gentle variable winds aloft.	2050	NNW-7		X	NW-6	
			2650	NNW-8		X	NW-4	
			3150	NW-7		X	NNW-5	
			3570	X	X	Cal m	X	X
			3760	NNE-9		X	NNW-4	
			4300	NE-12		NNW-10	NNW-4	
			5000	ENE-5		NNW-16	NNE-5	
			5600	NE-7		N-13	NNE-4	
			6200	E-9		N-13	NNW-3	
			6600	ENE-9		<i>E. wind clouds</i>	NNW-4	
			7400	ENE-7			N-6	
			8000	WE-6			N-11	
			8600	N-7			NNW-15	
			9200	N-11			NNW-16	
			9800	NNW-11			NNW-17	
			10200	NNW-16			N-18	
			11000				N-19	
			11500				N-19	NNW-19

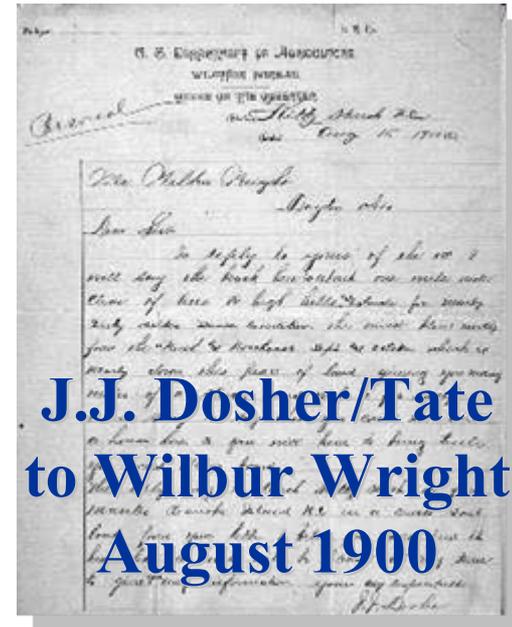
The Area Forecast (FA)

The text Area Forecast (FA) limited to 3,884 characters.



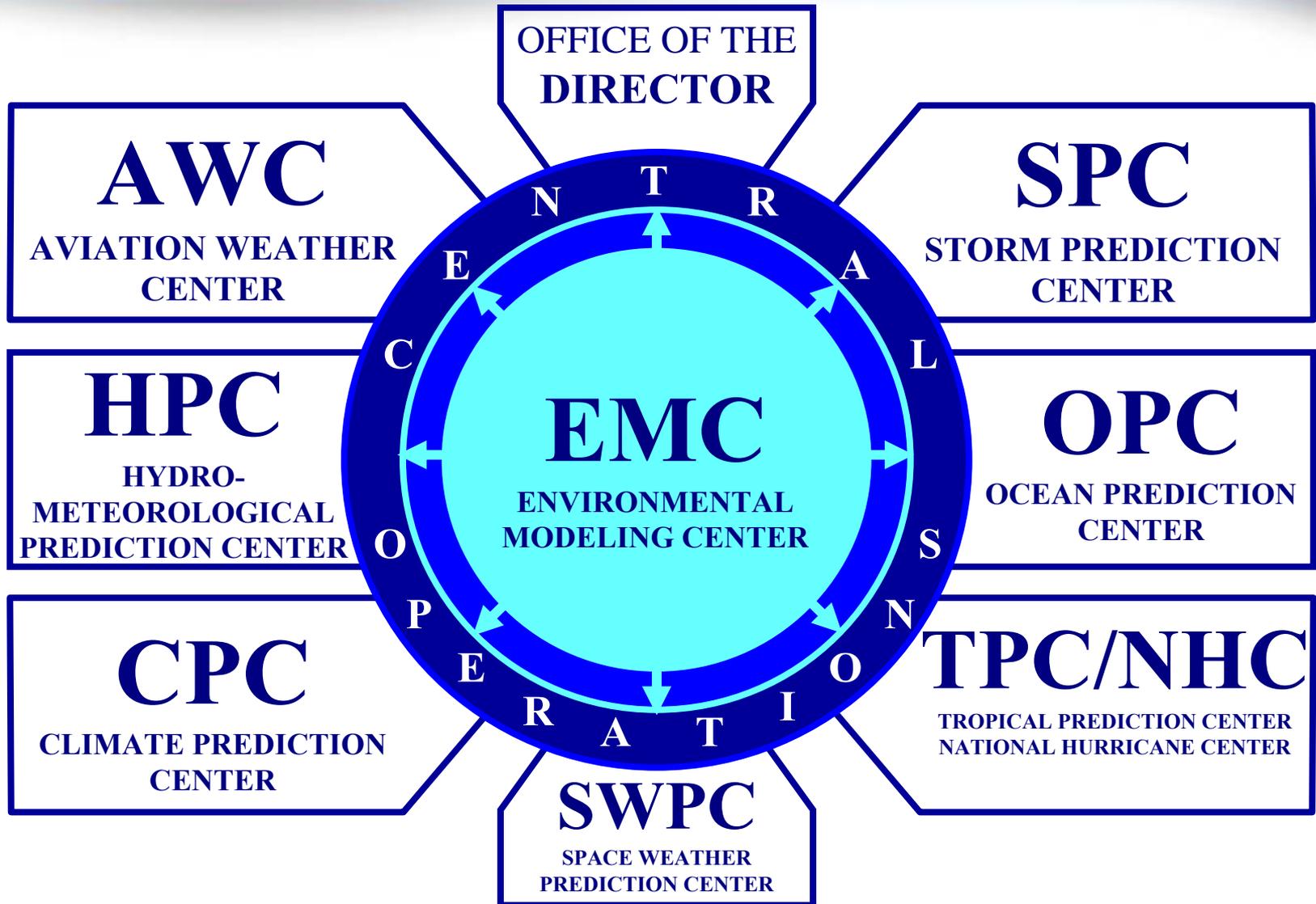
NWS & The First Flight Briefing

“Mr. J.J. Doshier of the Weather Bureau here has asked me to answer your letter...relative to the fitness of Kitty Hawk as a place to practice or experiment with a flying machine...”



**J.J. Doshier/Tate
to Wilbur Wright
August 1900**

National Centers for Environmental Prediction (NCEP)



National Weather Service (NWS) Aviation Support



Welcome!

Dr. John L. "Jack" Hayes

Assistant Administrator for Weather Services

Director, National Weather Service

**National Oceanic and Atmospheric
Administration**

