FAA National Airspace System
Weather Office

JPDO Weather IPT

Lisa Bee
Director, FAA NAS Weather Office
Deputy Lead, JPDO Weather IPT

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Lisa.bee@faa.gov
(202) 385-7697
Weather IPT Structure

Weather IPT
Mark Andrews
John McCarthy
Lisa Bee

Integration
Steve Green (NASA)
Gene Wilhelm (CAASD)

Forecast
Bruce Carmichael (NCAR)
Kevin Johnston (NWS)

Aircraft Mitigation
Paul Stough (NASA)

Systems Eng
Arnold Lee (IAI)

Observations
John Murray (NASA)
Mark Weber (Lincoln)

Dissemination
Ken Leonard (FAA)
Richard Deininger (Boeing)

Training
Al Kaehn (NOAA)
Bill Phaneuf (ALPA)
Jeremy Andruycyk (NWS)

Policy
Rick heuwinkel (FAA)
Weather Program Challenges

Institutional Change
- Joint Planning and Development Organization (September 2003)
- FAA Air Traffic Organization (February 2004)

1995 NRC Report, Activity Value Analysis, Interviews
- FAA Weather Program is fragmented
  - Lacks central coordination and prioritization
  - Too many systems with similar capabilities

- Wx R&D:
  - Implementation too slow
  - Not aligned with operational priorities
  - External User Input inadequate

- NAS-Wide Weather Requirements
  - No NAS-Wide set of weather requirements
  - No NAS-Wide requirement priorities established
  - No formal assignment of requirements to NWS
  - R&D not driven by operational requirements
NGATS 2025

2020
- FAA Flight Plan

2015
- ATO Strategic Management Plan
  - Enterprise Architecture
  - Aviation Weather Mission Needs Statement
  - Aviation Weather Architecture Roadmap

2010
- NAS Weather Requirements
- F&E R&D OPS

JPDO Weather IPT
Minimize impact of weather on the operations
Minimize impact of weather on the operations

Forecast Concept Capabilities Systems

NGATS 2025

FAA Flight Plan

ATO Strategic Management Plan
  • Enterprise Architecture
  • Aviation Weather Mission Needs Statement
  • Aviation Weather Architecture Roadmap

NAS Weather Requirements
F&E  R&D  OPS

Next Generation Air Transportation System
Joint Planning and Development Office

JPDO Weather IPT
Weather Planning

Chief Operating Officer
Russell Chew

JPDO
Charles Keegan

Weather IPT
Mark Andrews
Lisa Bee

International
Victoria Cox

Performance Analysis
Paula Lewis

Technology Development
Wilson Felder

WJ Hughes Technical Center
Anne Harlan

Operations Planning
Brenda Willingham

Operational Evolution Plan
Grady Mother

AWTT
Construct

Office of Strategy
David Chin

System Engineering
Jim Williams

Research and Development
Joan Bauerlein

NAS Weather
Lisa Bee

Operations Planning Comptroller
Joe Martirone

National Weather Service

AVS
Flight Standards

Acquisition and Business Services
Sandra Sanchez

System Operations
Michael Crow

En Route and Oceanic
Richard Gay

Safety
William Davis

Terminal
David Johnson

Finance
Eugene Juba

Flight Services
James Washington

Technical Operations
Steven Zaidman
Future Challenges

• Anticipating and Responding to a Changing NAS
  – Operational Environment
  – Economics
  – Politics

• Fiscal Constraints

• Shifting Culture and Policy
  – Within and Between Agencies, Operators, Airspace Users