

Infrastructure Work Group

Rex Alexander, Omniflight

Larry Buehler, FAA

Chris Eastlee, AMOA

Eric Lugger, Air Methods Corporation

Tom Judge, LifeFlight of Maine

Sean McCourt, MITRE

Rachael Miller, MS

Dan Norman, Satellite Technologies Implementation

Jeni O'Bryon, Portland Jetport

Ralph Petragnani, Belfort Instruments

Greg Thompson, NCAR



International Helicopter Safety Symposium
September 26-29, 2005



Federal Aviation
Administration

Recurrent Risk Themes

- Night
- Low Visibility
- Marginal Weather
- VFR into IMC

Infrastructure

- Weather Reporting Systems
- Weather Prediction and Forecasting /
- HEMS Wx. Tool
- Low Level IFR
- Helipads
- HGPS Approaches

Infrastructure Work Group

Prioritized list of improvements:

Weather PSEP

White Paper

HEMS ADDS Wx. Tool to operational

Improvements to HEMS ADDS

Improvements to Weather Grid

Improvements to NADIN

On-board contemporary weather

Weather sharing

“Friends and Partners in Weather”

Infrastructure Work Group

IFR Infrastructure:

White Paper / PSEP

Helipads:

Survey Tool for scaling

Need FAA guidance re: federal funding

Informational tools NEMSPA / “LZ CHECK”

PRIA:

AFS Paper / PSEP

Regulation

Infrastructure Work Group
Issues / Barriers: Policy Initiatives Needed

- Reestablish Federal commitment and funding HEMS ADDS WX Tool / low level atmospheric operational weather forecasting
- FAA Reauthorization “HIP” vs. AIP Funding
- FAA work with states on reducing costs to incorporate non-federal AWOS into system

Infrastructure Work Group
Issues / Barriers: Policy Initiatives Needed

- State Helicopter Integration into State Aviation Master Plans
- Funding for AWOS prioritized in AIP funding
- Use Colorado Model Plan for a state wide system for integrating non-federal systems into NADIN

Infrastructure Work Group

Issues / Barriers: Federal Funding Needed

- HEMS WX Tool to operational \$400K
- HEMS Wx Tool annual upgrade
- Non-Federal AWOS \$7-8M over 3 years for 2000 + existing stations
- ADSB: \$\$\$\$\$\$\$
- Helipads: upgrades \$150M over 10 years for improvements to 2000 + hospitals
- HGPS: 250 per annum \$6M over 10 years

Infrastructure Work Group
Issues / Barriers: State/ Private Funding

- Rural Airport funding for maintaining AWOS
- Investment in infrastructure
 - AWOS
 - Helipads
 - HGPS
- Helipad “LZ Check”
- Create grid emergency “helistops”
- Liability protection for emergency helistops

Infrastructure Work Group: Case Study Maine

- 2001/02: Emergency Section into State Aviation Master Plan (forest fire suppression, medical evacuation, disaster)
- 2003: Transportation Bond
- 2004: Public Private Partnership to build infrastructure
- 2006: Federal funding (AIP) for non-fed AWOS integration
- 2008: Wilderness Access Project
- 2009: Transportation Bond

Maine Hospital Helipads



The LifeFlight Foundation | 207-785-2288 | www.lifeflightmaine.org

REV 06/12/09

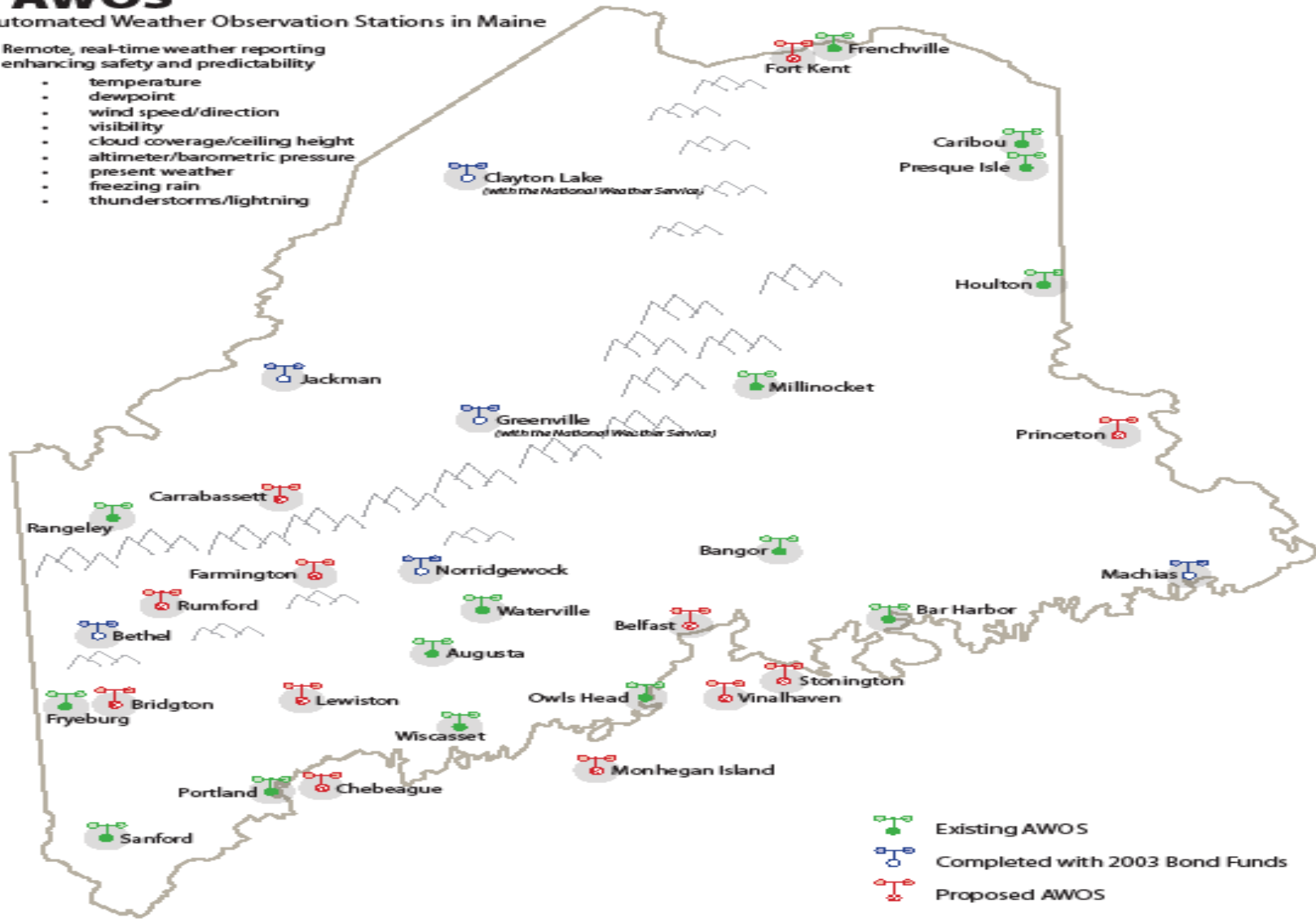


AWOS

Automated Weather Observation Stations in Maine

Remote, real-time weather reporting
enhancing safety and predictability

- temperature
- dewpoint
- wind speed/direction
- visibility
- cloud coverage/ceiling height
- altimeter/barometric pressure
- present weather
- freezing rain
- thunderstorms/lightning



The LifeFlight Foundation | 207-785-2288 | www.lifeflightmaine.org

REV: 05/13/09

HGPS Approach

Helicopter Global Positioning System

An electronic map that improves access to remote communities and hospitals in poor weather or darkness

- designed by an aviation engineer
- FAA-approved

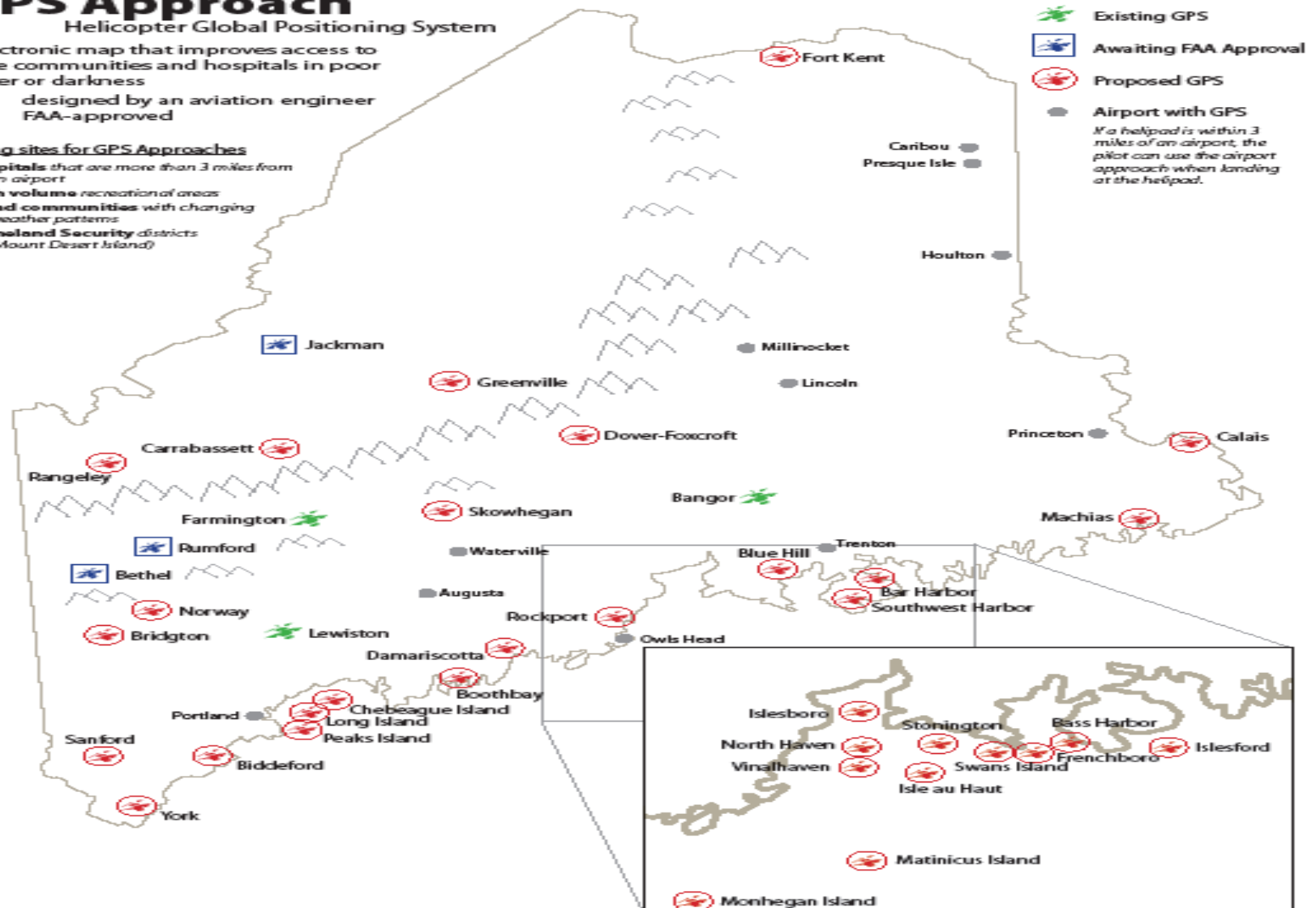
Selecting sites for GPS Approaches

Hospitals that are more than 3 miles from an airport

High volume recreation of areas

Island communities with changing weather patterns

Homeland Security districts (Mount Desert Island)



The LifeFlight Foundation | 207-785-2288 | www.lifeflightmaine.org

REV: 05/13/09

ORP for Daily / Annual Checklist for Hospital Risk Managers

CAUTION

**HELICOPTER LANDING AREA
AUTHORIZED PERSONNEL ONLY**

CAUTION

**HELICOPTER LANDING AREA
HIGH WINDS ASSOCIATED WITH HELICOPTER OPERATIONS**

State of Maine
Emergency Rendezvous Point



**In case of emergency
CALL 911**

GPS Coordinates: _____

Access Project:

**LifeFlight
Maine DOC
Maine IFW
MEMA
Fire Chiefs Assoc.
MSP 911
Snowmobile Assoc.
Maine ATV
Woodland / Paper
Operations**

1400 Access Points

Infrastructure Work Group