

A User's Perspective on Airborne Observations

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Weather Accidents



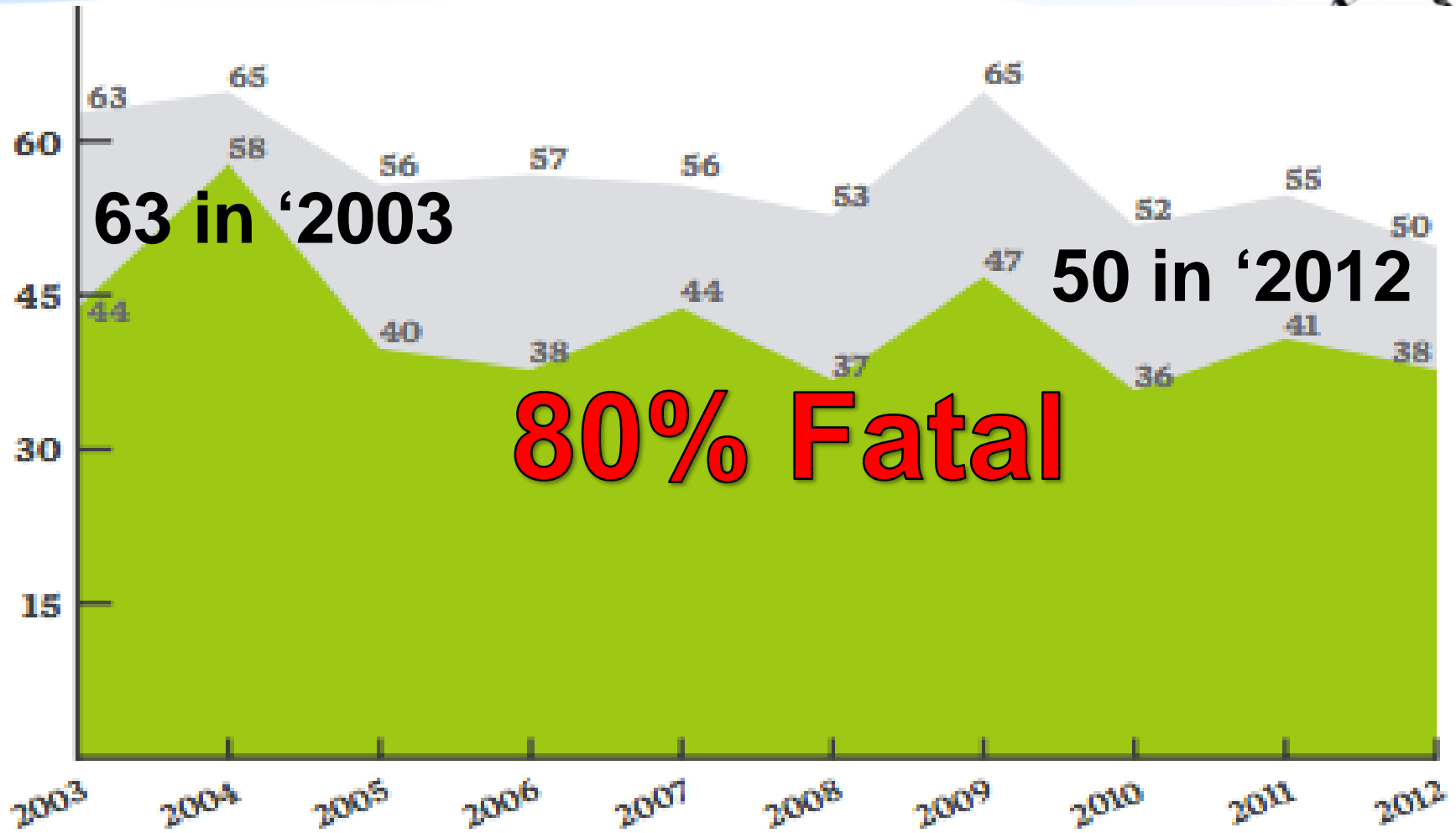
Turbines are doing nicely

Technology is better

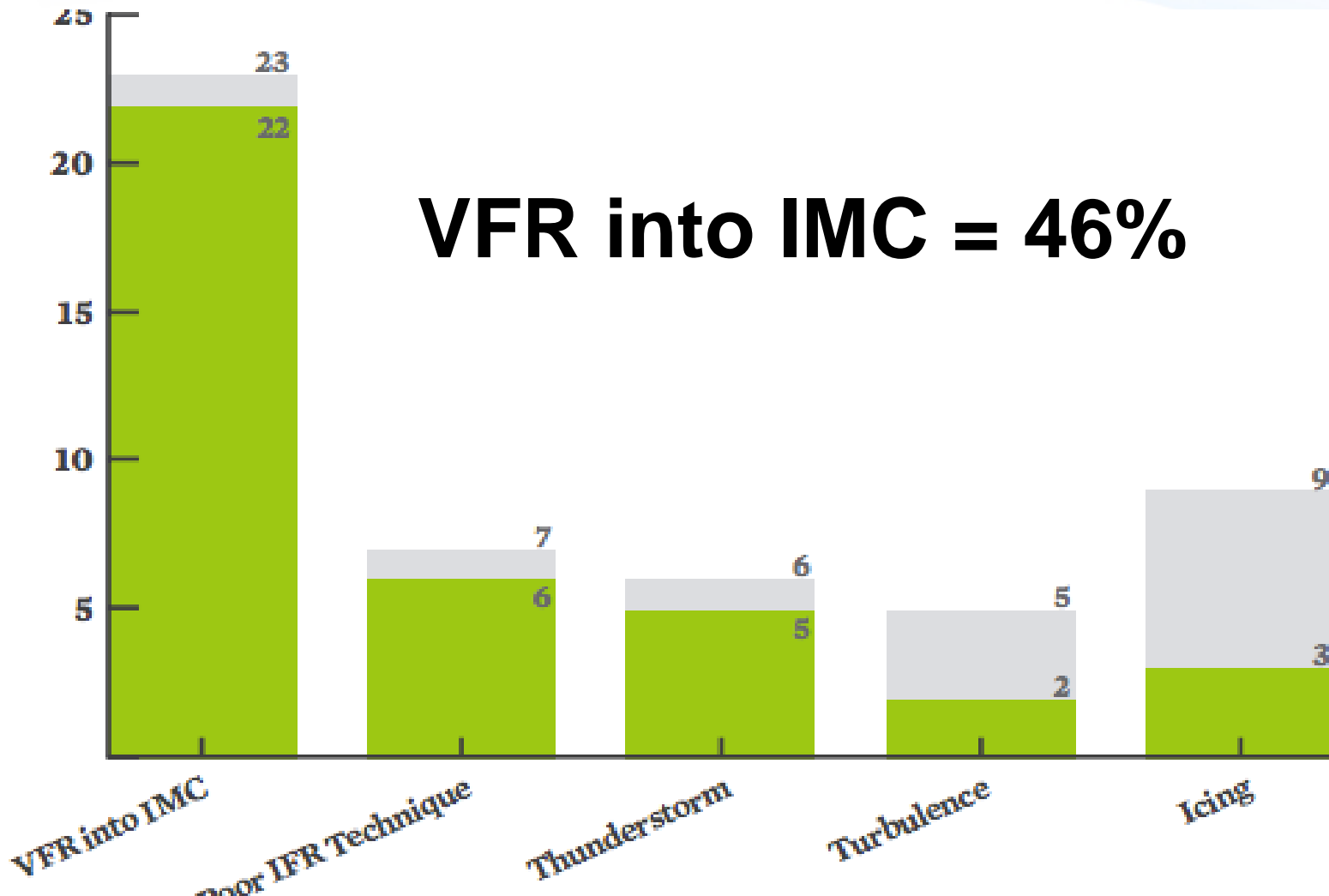
But ...



Wx Acc. Trend – Mostly Flat



2012 – 50 Wx Accidents Total



How Many Came Close???





AIRMETS!!



“VFR Not Recommended”

Not now

Not tomorrow

Not next week



Just take the Bus !!



Crying Wolf ?



Is it Really IMC?

... Over the entire forecast area

... Over the entire time ... Really????

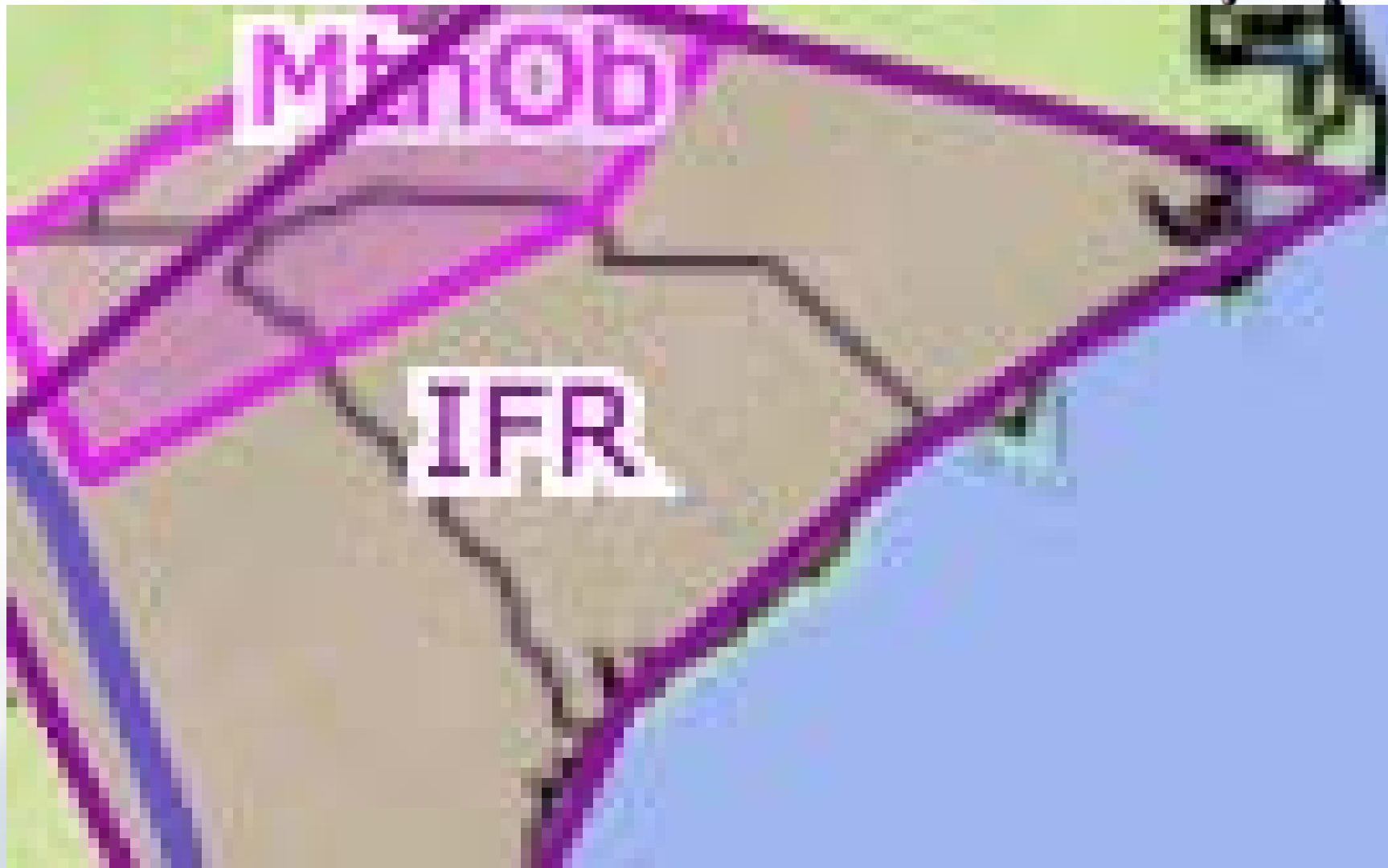
Forecasts amended timely ??????



Failure to WARN



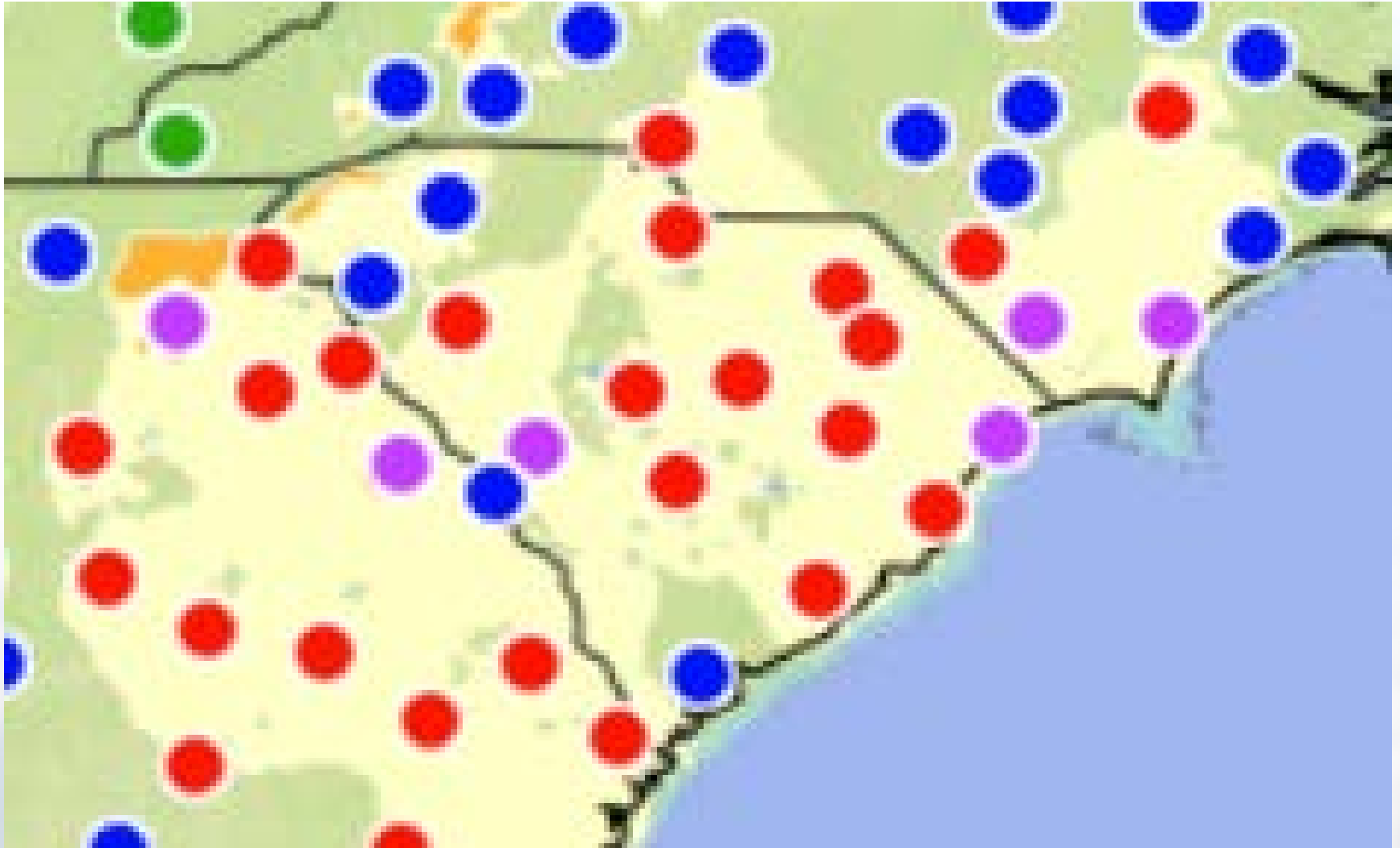
IMC in the Sunny South



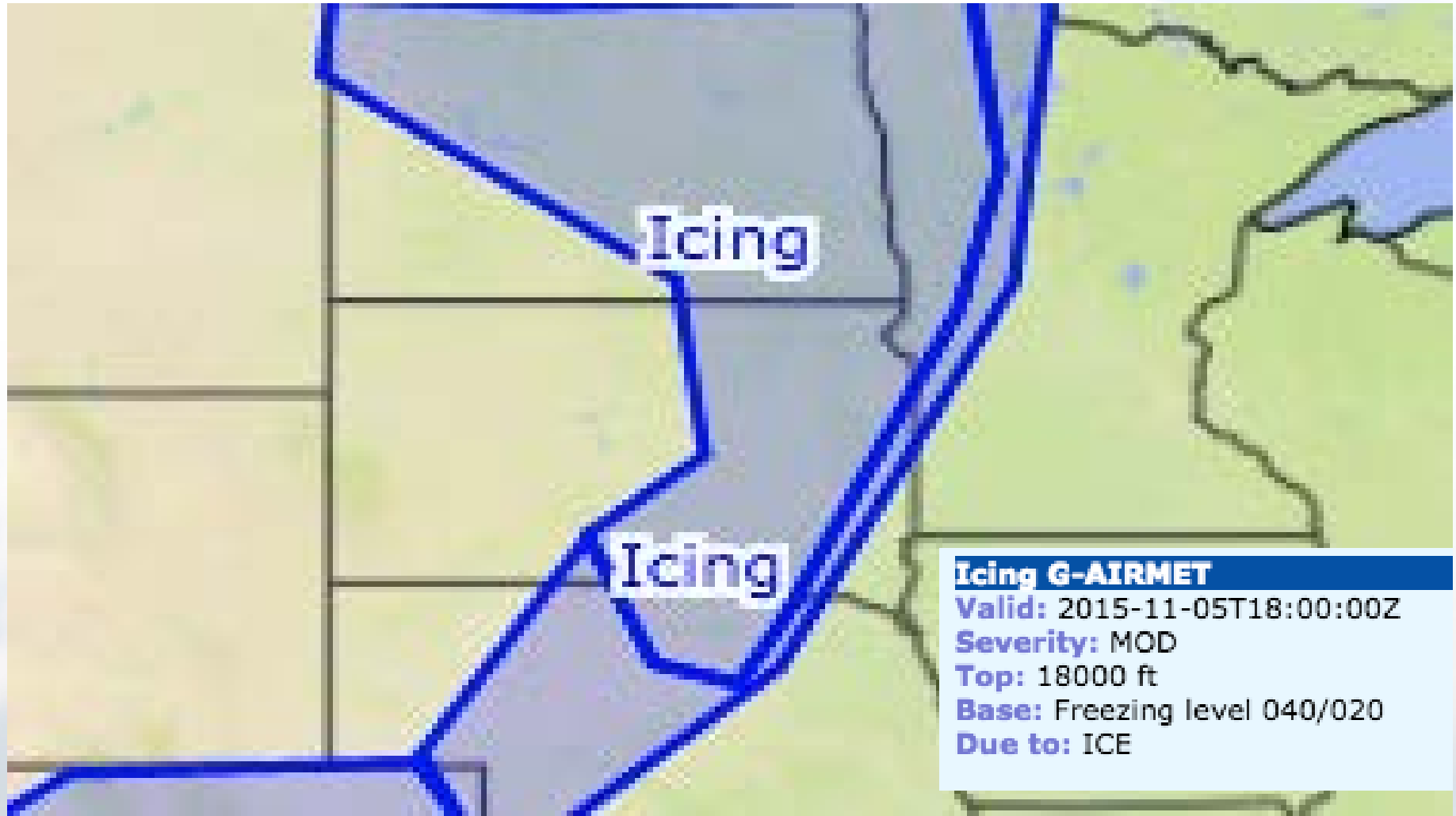
Only two PIREPs, but ...



METARs = Confirm



Lotta ice: 020-FL180???



Icing G-AIRMET

Valid: 2015-11-05T18:00:00Z

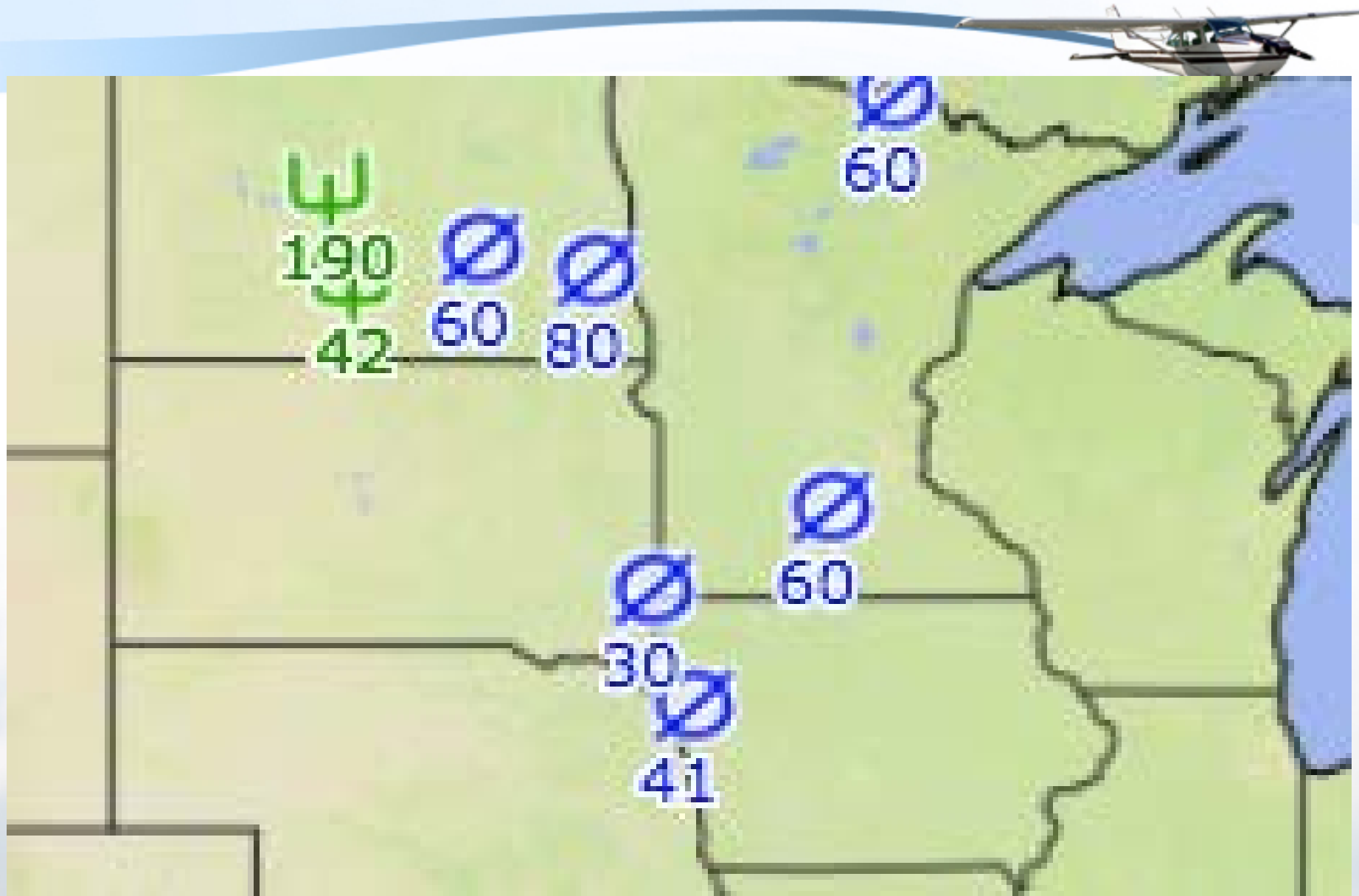
Severity: MOD

Top: 18000 ft

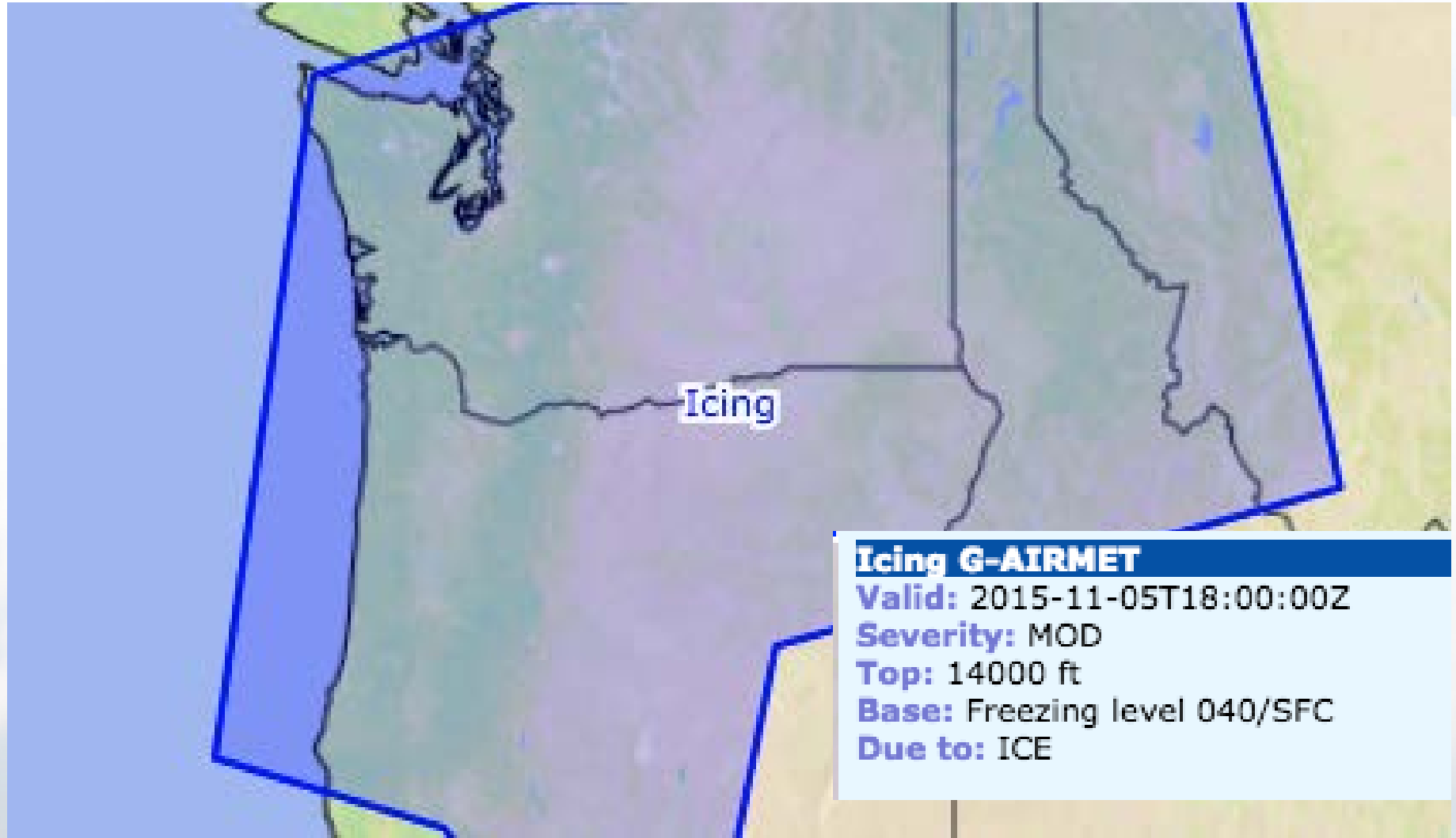
Base: Freezing level 040/020

Due to: ICE

Well, maybe not so much ...



Ice – SFC to 140 ?



Icing G-AIRMET

Valid: 2015-11-05T18:00:00Z

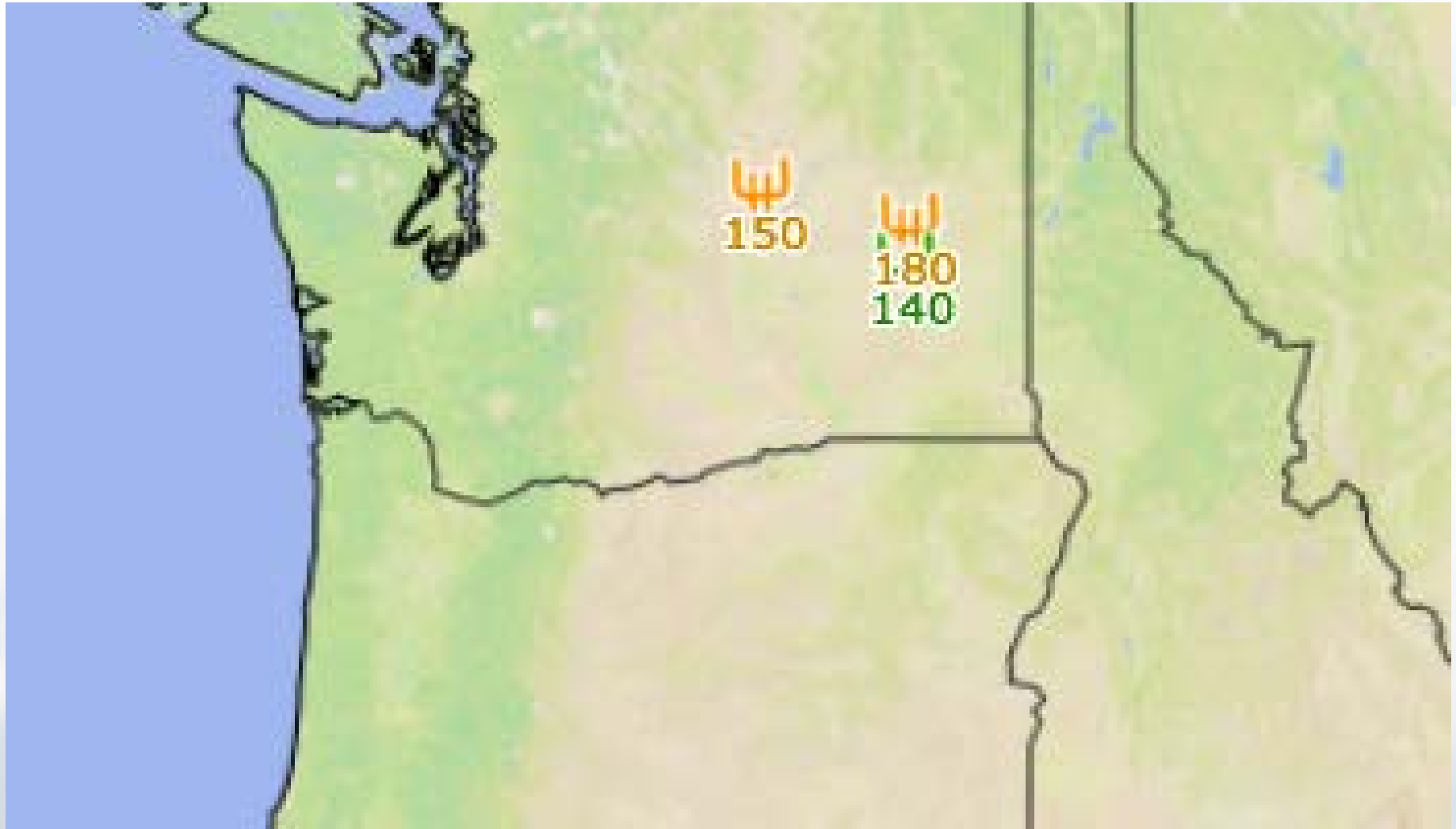
Severity: MOD

Top: 14000 ft

Base: Freezing level 040/SFC

Due to: ICE

Not so much, but ...



Y'all be Careful ...



Orographic lifting

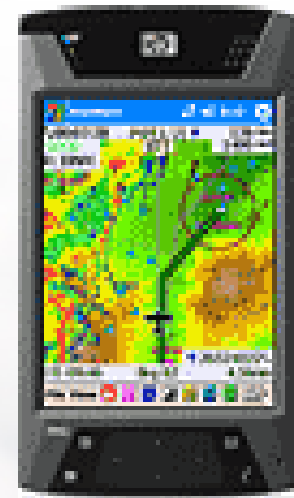
Moisture aloft

Temperature fluctuations



Datalink

Great for some things
But not all...



Where is this Going?



Observations – Ground & **Aloft**

Training – Pilots & Forecasters

It's about **GOOD** forecasts

It's about **timely** updates/changes

It's about **verification**



Move GA into the 1990s



PIREPS ...



“FAA should put a much higher priority on acquiring PIREPs ...”



NATCA



New World – Old World



Icing & IMC ...



- Tops?
- Bases?
- Is there really ice?
- What's the Viz?



Hundreds of PIREPs needed!



- ◆ **Downlink via ADS-B - using EFB?**
 - ◆ Eliminate the middle-person
 - ◆ Near Real Time

- ◆ **Null reports vital ...**



Cut the Chit-Chat



- ◆ Direct to the system – **All Users**
 - ◆ Pilots, ATC, AWC, AFSS
- ◆ VFR aircraft can play
- ◆ Freqs uncluttered
- ◆ **Real time**



Waiting for Airborne Obs ...



Good Info = Good Decisions



- **Important** for forecasters
- **Critical** for pilots
- **Confirm or Deny**
- ***Failure to Warn*** greatly reduced
- **Improve Utility**
- **Save Lives.**



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Thank You!

