

WakeMed Hospital – Raleigh, NC

 12 PM ET Apr 13, 2020
1888 stations shown
Wind Speed & Direction (mph)
0 5 10 15 20 25 30 35 40 45 50 55 60



Datetime
Daily Data Hourly Data
Apr 13, 2020 12 PM ▼ ET ▼ or

 Now

Weather Station Parameter
Wind Speed & Direction (mph) ▼
 Hide Overlapping Stations (Faster map)

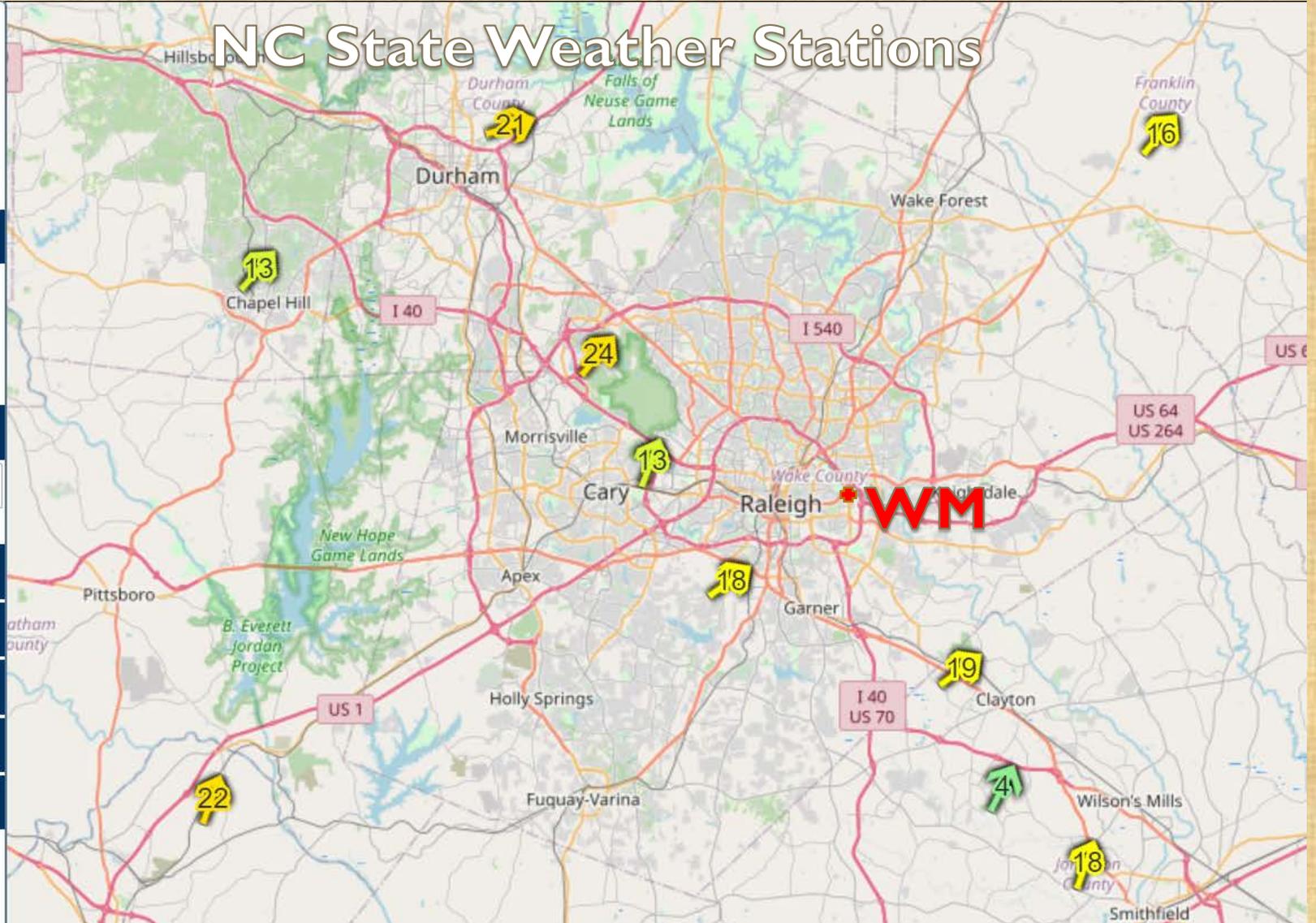
Weather Station Networks

Map & Weather Layers

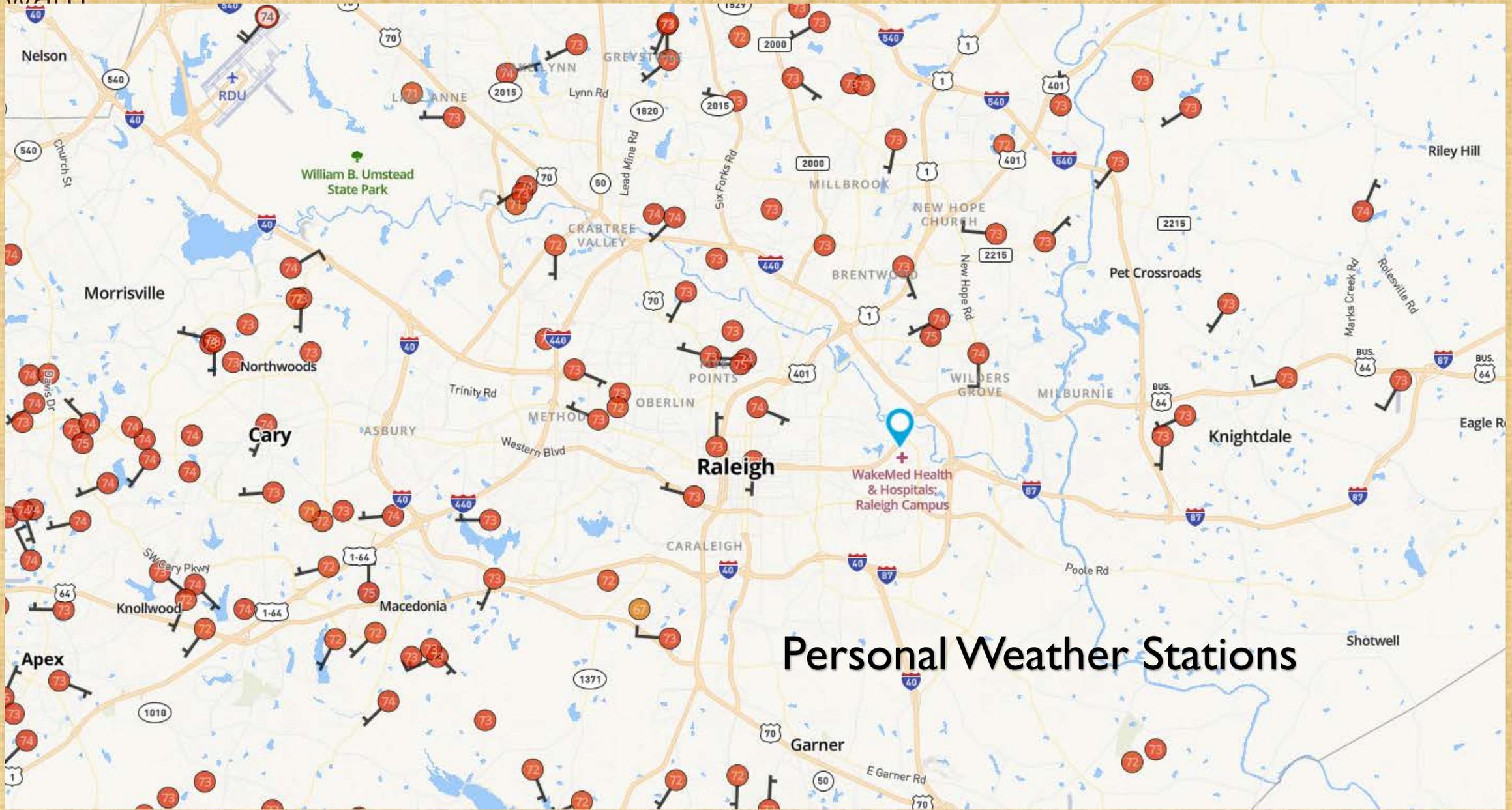
Search The Map

Share Your Map

About This Map

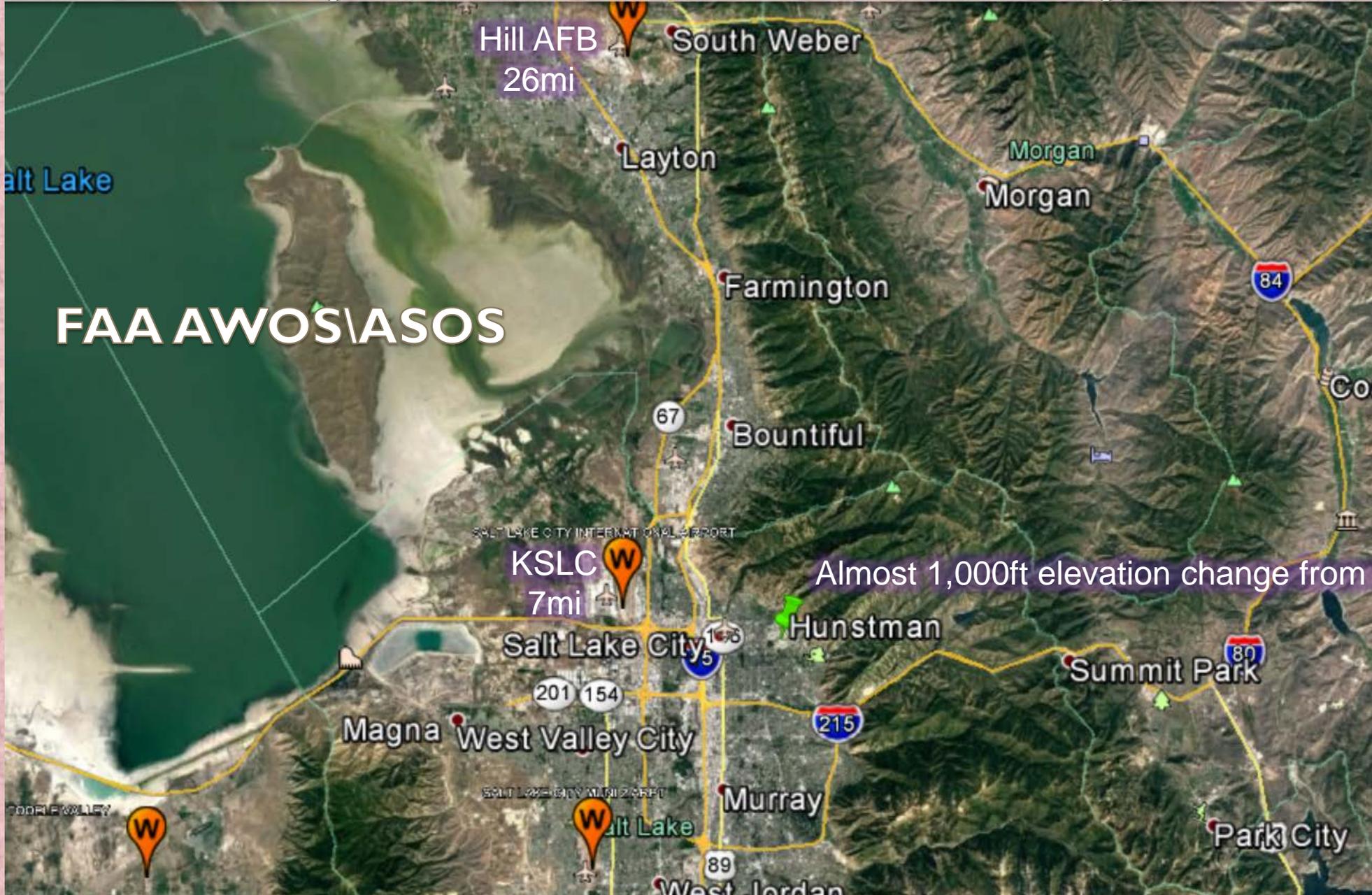


WakeMed Hospital – Raleigh, NC



Flight
Forward

University of Utah Health – Salt Lake City, UT



FAA AWOS/ASOS

Almost 1,000ft elevation change from SLC

MESO WEST Region Alaska GCA Product Surface Weather Maps Go Login Create a User! MesoWest | Help | Site Map | Data API Services

[Hide Menu](#) | [Search](#) | Map Product: Default Change

Data Selection

Region/Zone Radius

25 Miles Click Point on Map →

Network: All Networks

Units: Metric Refresh Map

Display

Overlay 1: Current Wind Speed

Overlay 2: Current Wind Gust

Highlight Data

Other Features

[Time Options](#)

[Find us on Facebook](#)

UU Weather Stations

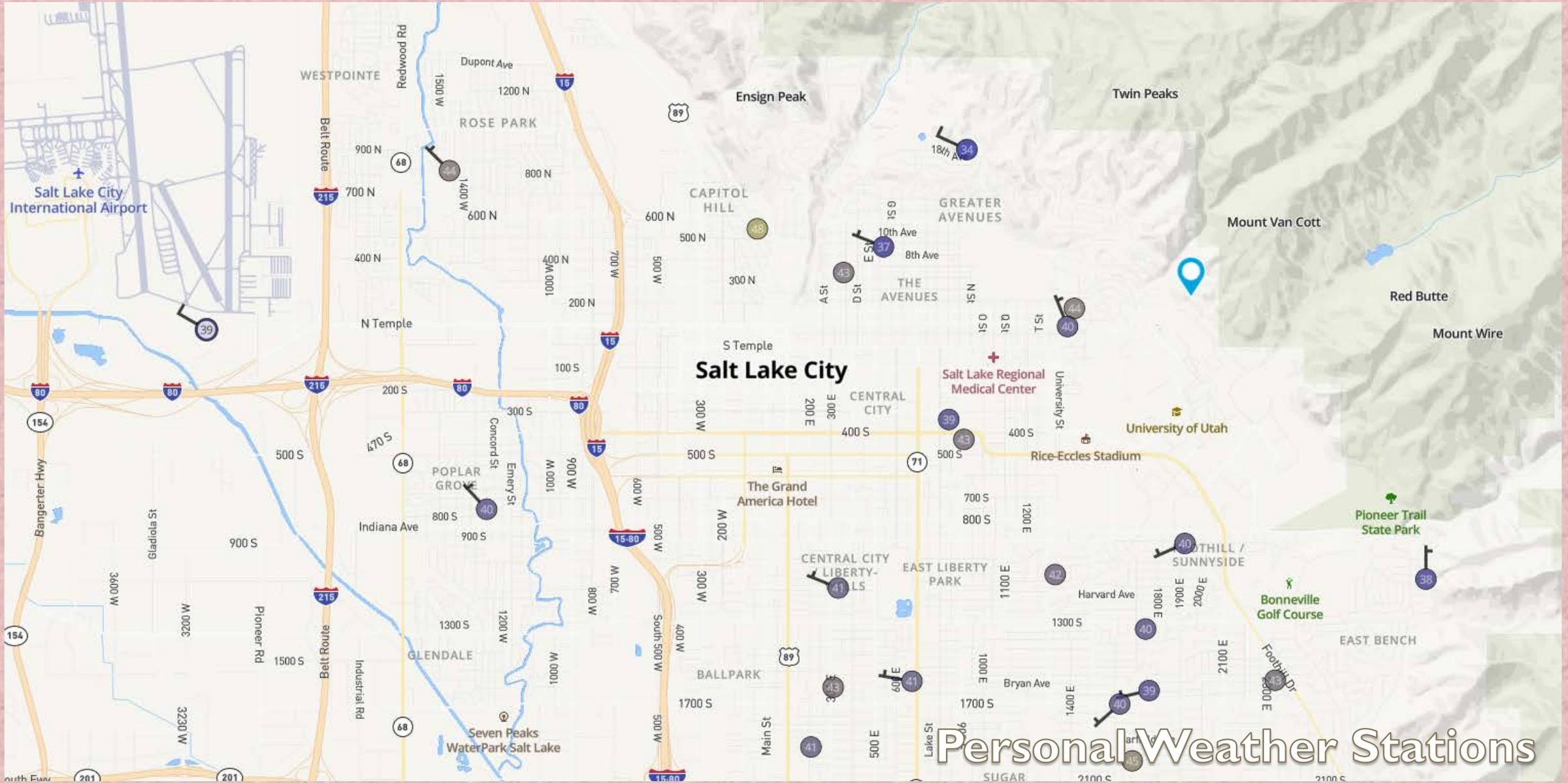
Most recent observation within 1 hr ending at **16:32 UTC 4/13/2020**

Huntsman

Powered by [Leaflet](#) — © [Mapbox](#) © [OpenStreetMap](#) [Improve this map](#)

Questions? Contact [MesoWest](#)

University of Utah Health – Salt Lake City, UT



TAKEAWAYS

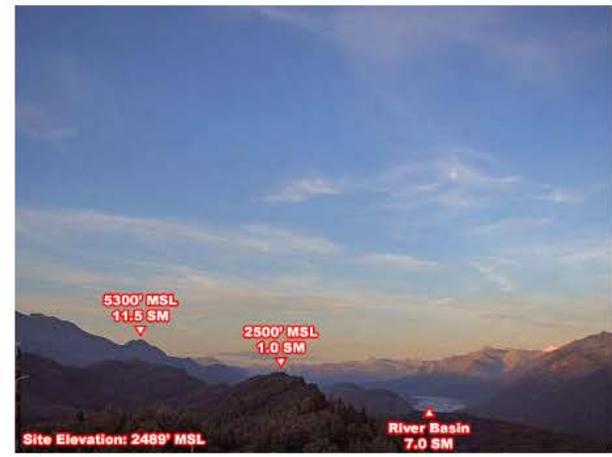
- FAA ASOS/AWOS too sparse for UAS usage (also too expensive to duplicate)
- University sponsored weather stations lack visibility/ceiling in most cases, but are typically quality checked for certifiable data
- Personal weather stations are dense in coverage but lack certifiable data
- Weather cameras can use AI to determine visibility and sky coverage and are much more cost effective than normal instruments (ceilometer etc)

FAA AVIATION WEATHER CAMERAS

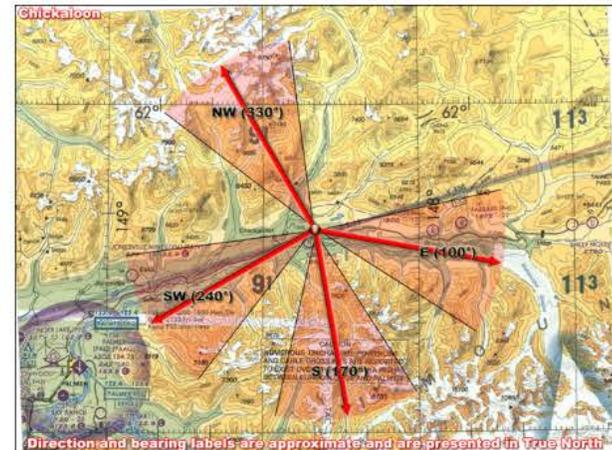
- Current Images
- Site Information
- METAR
- Advisory Weather
- PIREPs/AIREPs
- TAFs
- Loop ▾
- 🌐
- Site Alert



East Camera



Clear Day



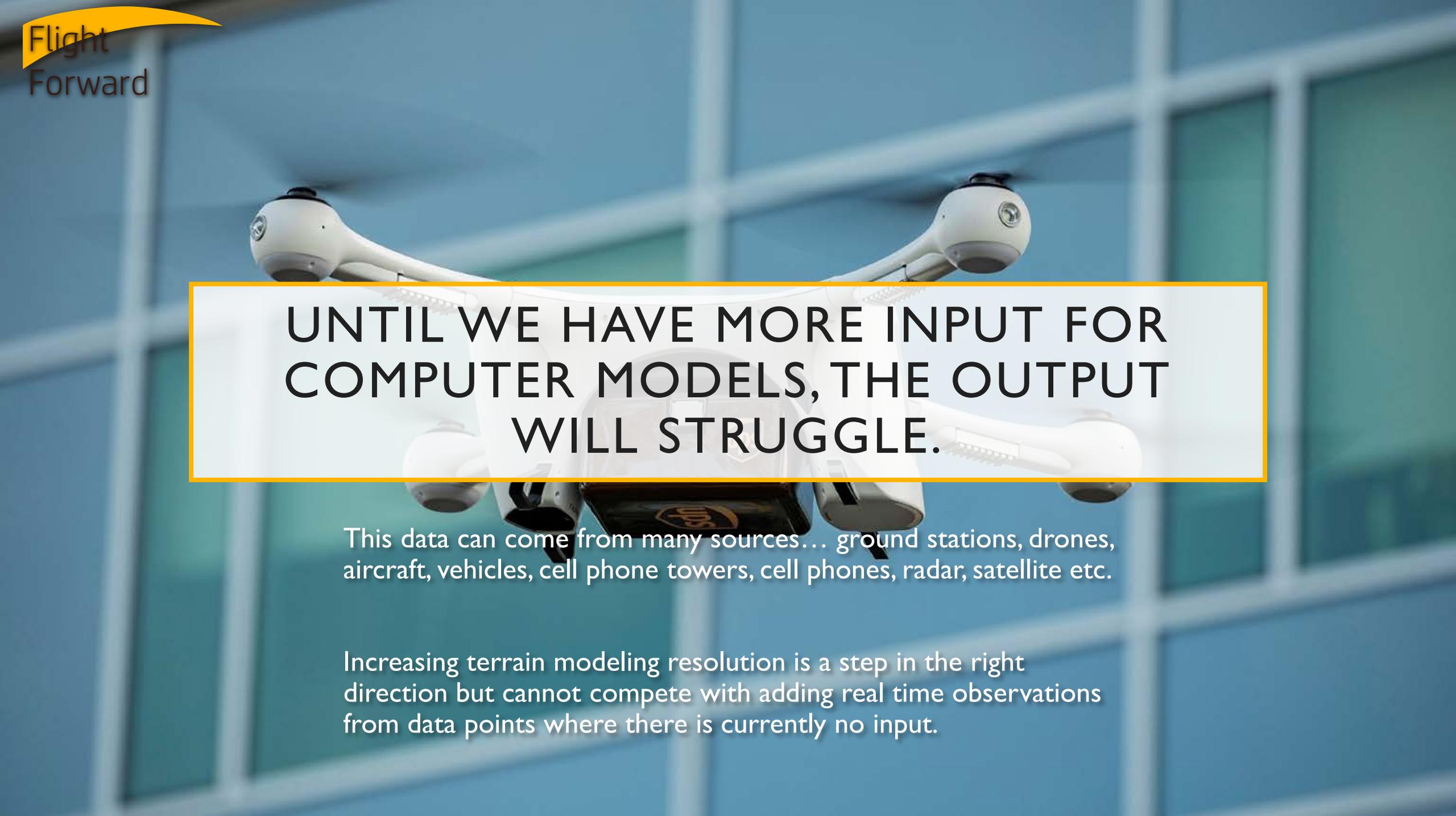
Sectional

<https://avcams.faa.gov/>

HOW ARE WE BRIEFING TODAY?

- UPSFF is using only commercially rated [manned] pilots as operators
- Crewmembers attend an initial and recurrent meteorology class approved by the FAA similar to EWINS program
- The closest TAF is used for the official briefing
- UPSFF Meteorology department can provide additional information to crewmembers upon request or uncertainty
- Crewmembers are trained to use calibrated handheld anemometers on site





UNTIL WE HAVE MORE INPUT FOR
COMPUTER MODELS, THE OUTPUT
WILL STRUGGLE.

This data can come from many sources... ground stations, drones, aircraft, vehicles, cell phone towers, cell phones, radar, satellite etc.

Increasing terrain modeling resolution is a step in the right direction but cannot compete with adding real time observations from data points where there is currently no input.

LET'S FIND A COST EFFECTIVE
AND ACCURATE SOLUTION
TOGETHER.