NOAA's National Weather Service
Milwaukee/Sullivan

NWS Mobile & Web Services

Marcia Cronce
Meteorologist, Aviation Focal Point

August 2014

weather.gov/milwaukee

NWS
Part of the Federal Government

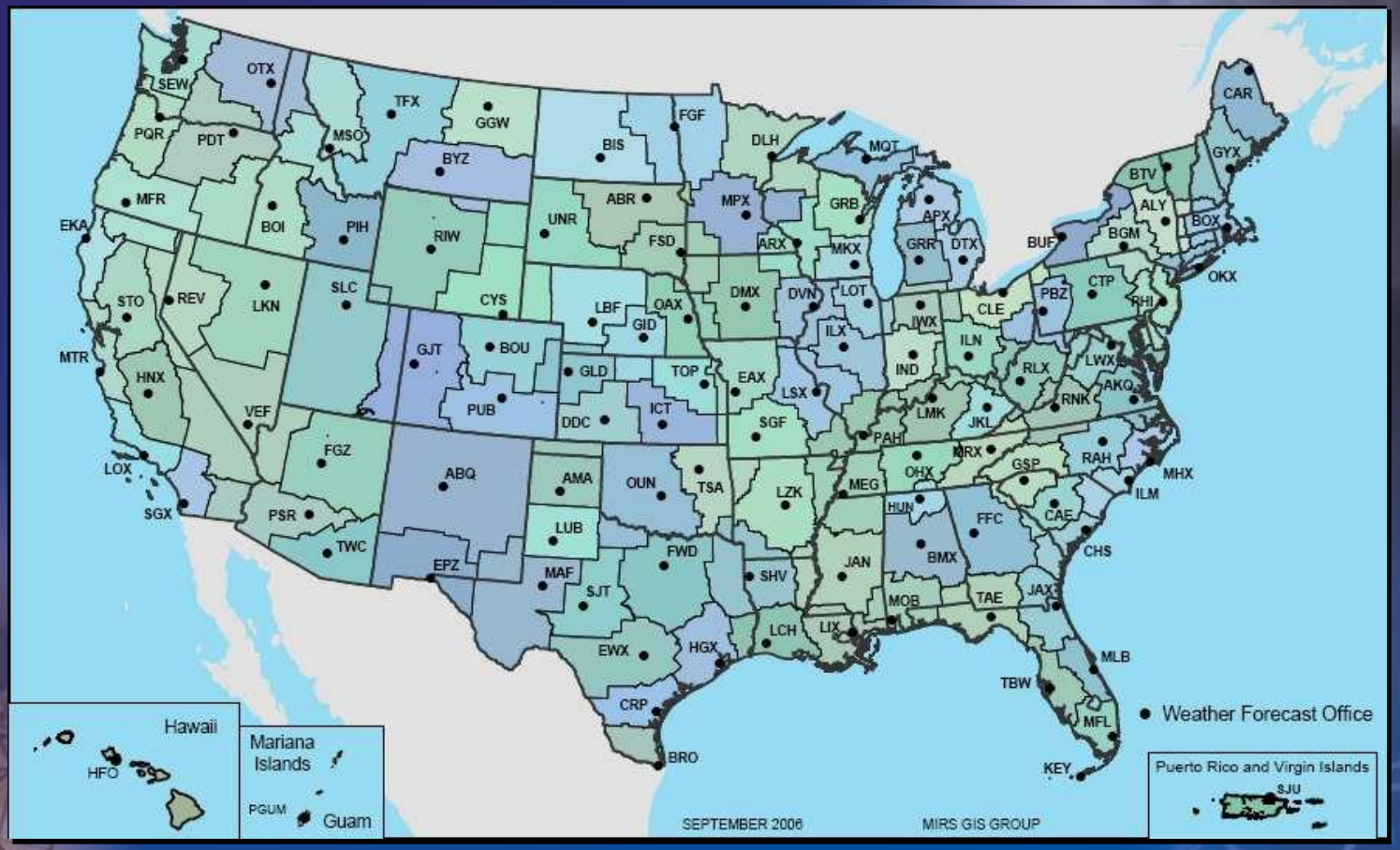
DOC - Department of Commerce

NOAA - National Oceanic and Atmospheric Administration

NWS - National Weather Service

NWS → Weather.gov → Aviation Sites → Mobile → WEA

National Weather Service Field Offices



122 NWS Offices across the country, operating 24 hours per day, 7 days a week, year-round, each with a specific area of responsibility.

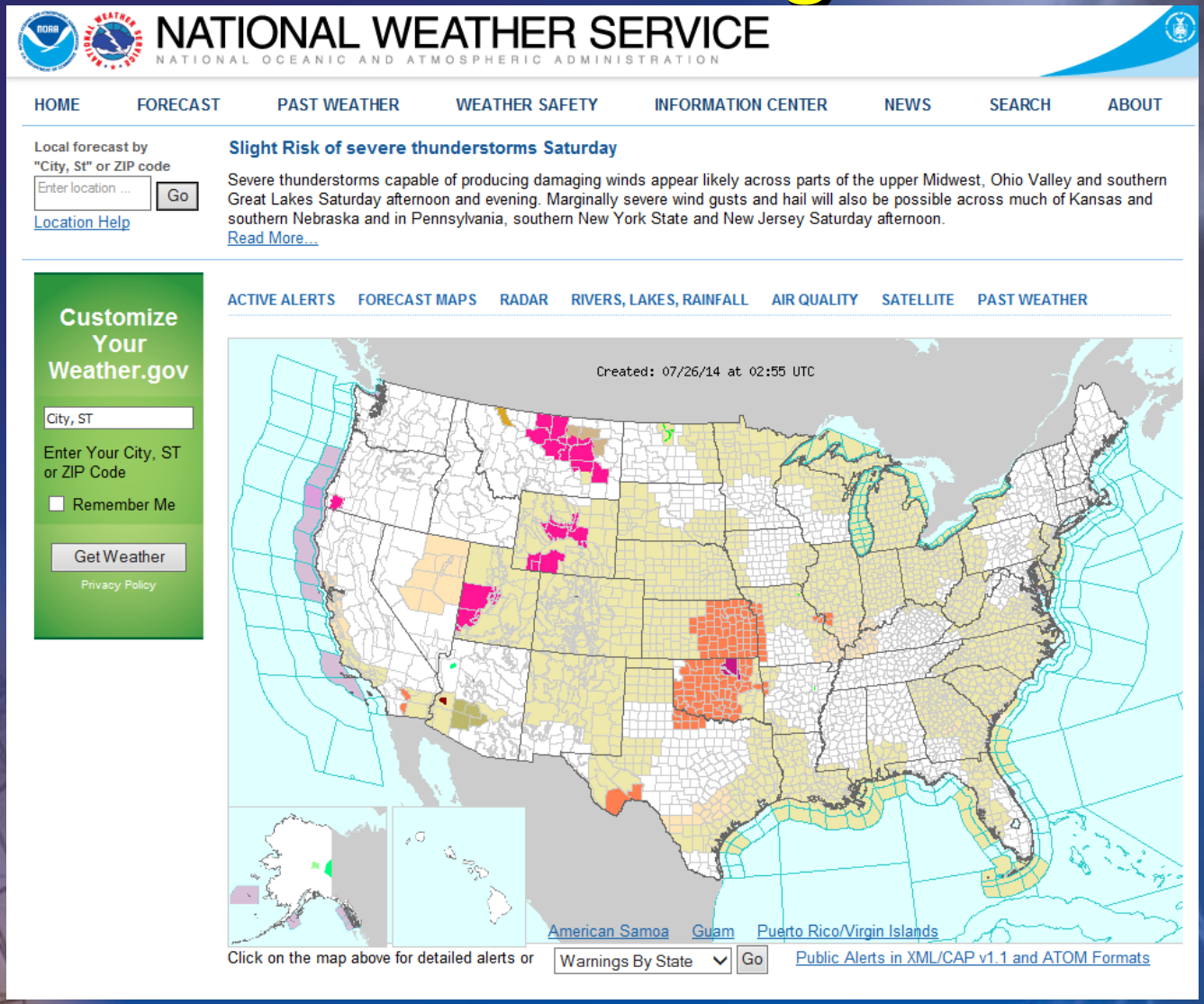
NWS → **Weather.gov** → **Aviation Sites** → **Mobile** → **WEA**

Websites

- **weather.gov**
  - weather.gov/milwaukee
  - weather.gov/greenbay
  - weather.gov/lacrosse
- **aviationweather.gov**
- **mobile.weather.gov**

NWS → Weather.gov → Aviation Sites → Mobile → WEA

Weather.gov

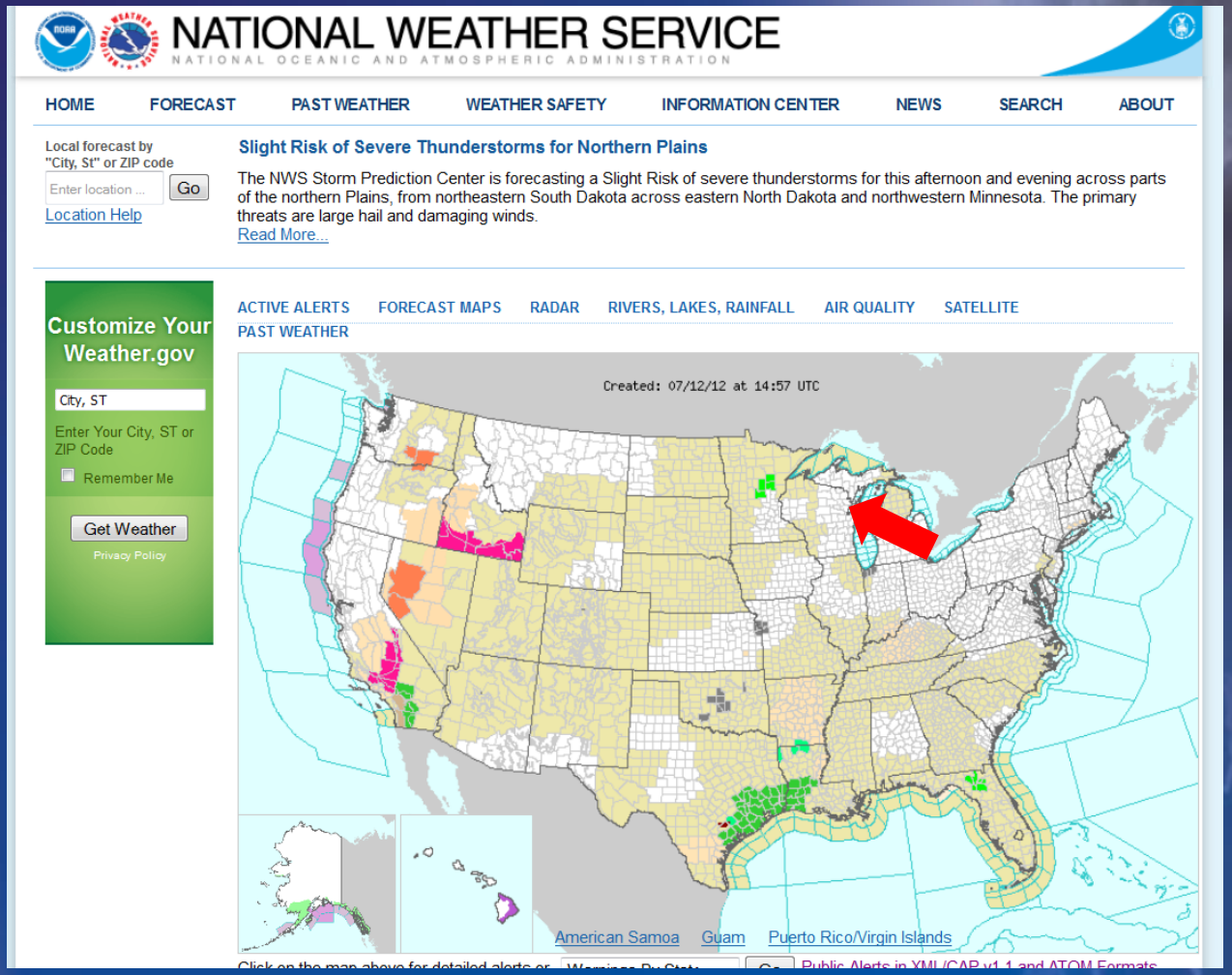


NWS → Weather.gov → Aviation Sites → Mobile → WEA

Weather.gov

Finding your local Weather!

Point & Click



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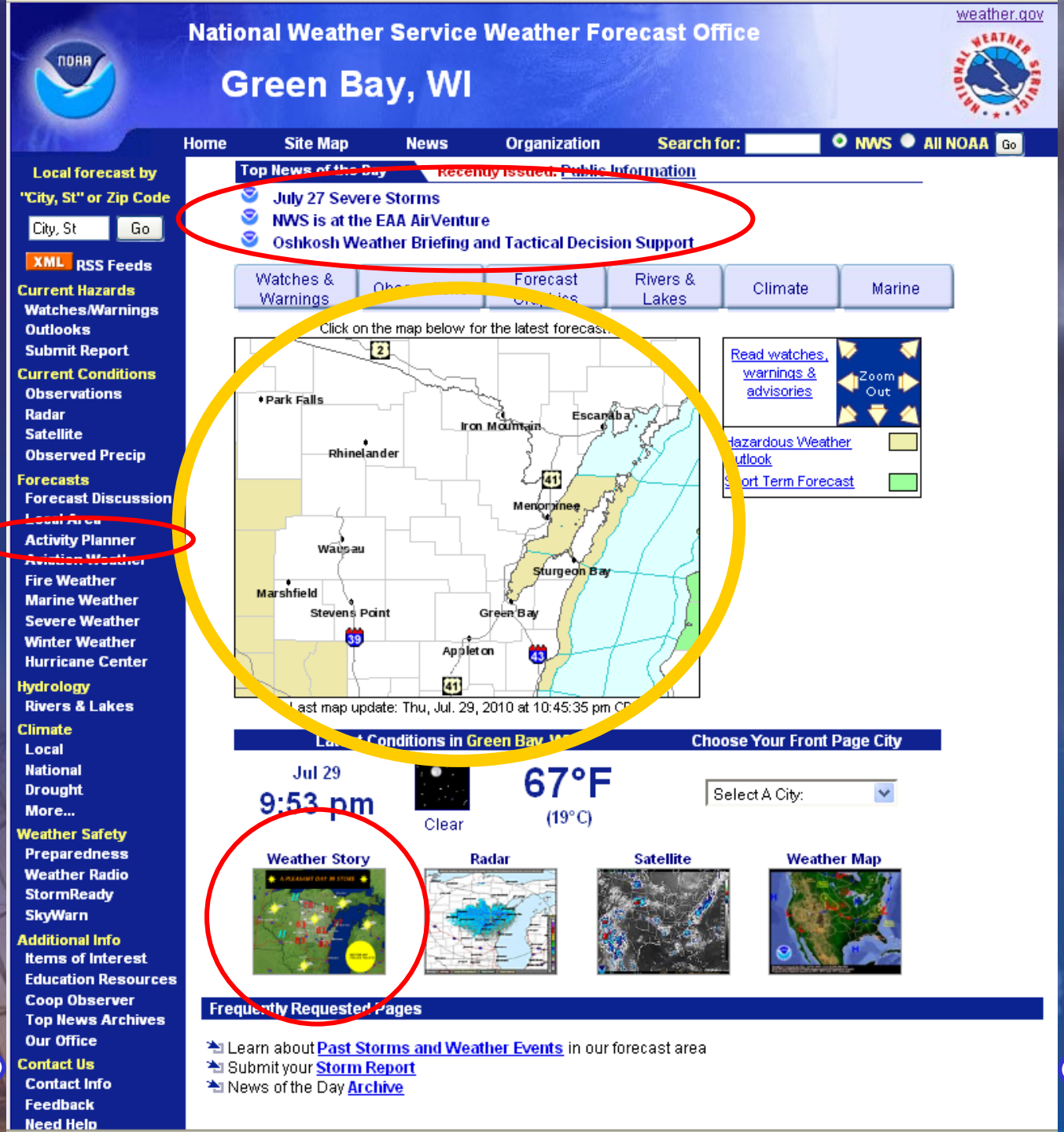
Four Areas of Interest



NWS

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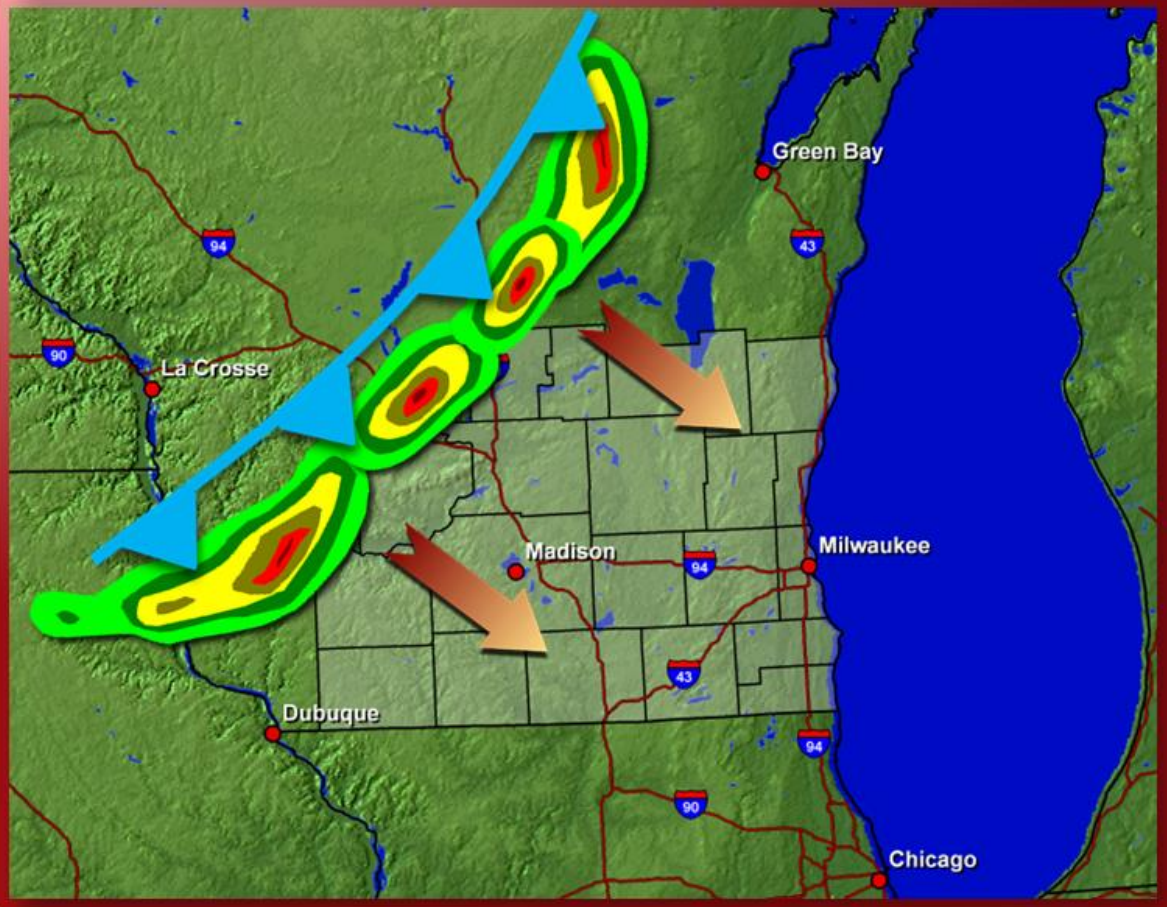
Severe Storms Possible Sunday

Weather Story



Highlights/Hazards

- Peak threat time between 4 PM and 9 PM
- Main threat large hail, damaging wind and isolated tornadoes
- Heavy rain in t-storms
- Highs mid 80°s, dew points climb to around 70°.

August 9, 2014

Stay Tuned For The Latest Forecast Information

/US.NationalWeatherService.Milwaukee.gov /NWSMKX /NWSMilwaukee

NWS → Weather.gov → Aviation Sites → Mobile → WEA

Activity Planner

Let's say we WANT certain weather conditions!

NOT TO REPLACE A SPOT FORECAST

ervice Forecast Office

ee/Sullivan

News | Organization | Search for:

Weather Activity Planner

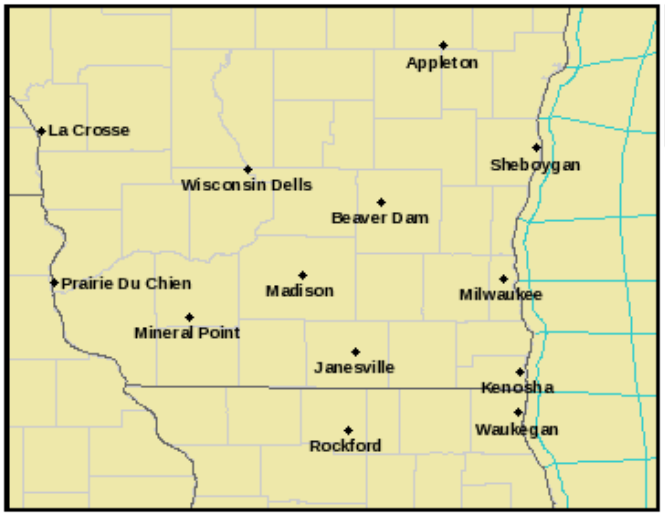
Welcome to the **Weather Activity Planner**. Please enter the range of weather parameters required for your activity. Then, either click the approximate location on the map below, or enter the specific latitude and longitude and hit submit. This will query the forecast grids to find when your weather requirements will be met at the nearest grid point over the next 7 days. Public **comments and suggestions** are encouraged.

This application generates products from a digital forecast data base. It is intended to allow a user to define and produce a forecast for general planning purposes only. As any weather or hydrologic event evolves, updated forecasts and warnings are issued by the NWS. Customers are urged to obtain the latest official forecast information prior to engaging in any weather sensitive activity, and to monitor forecasts for updates during such activities.

The **Weather Activity Planner** is NOT meant to replace a spot forecast request. **Weather Activity Planner** surface winds are a gridded representation of projected, local surface winds at a 5km or 2.5km resolution. The surface winds returned do NOT account for fuel type, sheltering or slope aspect. Users can select either surface wind speeds or 20 foot winds (if the 20 foot wind grid is available). If precise wind forecasts are needed, please submit a spot forecast request to your servicing Weather Forecast Office.

[English Units - Click to Change]

Element	Min		Max	Element	Min		Max
Temperature (°F)	70	to	90	Surface Wind Direction		to	
Relative Humidity		to		Sky Cover		to	
Surface Wind Speed (mph)	0	to	15	Precipitation Potential	0	to	25



Last Updated: Sat, Jul. 21 2012 10:02 AM

Read watches, warnings & advisories | Zoom Out

Hazardous Weather Outlook

Latitude/Longitude Entr
decimal degrees (i.e. 42.134) or deg min sec (i.e. 42 23 34)

Latitude:

Longitude:

Use "-" (negative sign) in longitude for locations in Western Hemisphere

Submit

Activity Planner

Let's say we WANT certain weather conditions!

NOT TO REPLACE A SPOT FORECAST

ervice Forecast Office

e/Sullivan

Weather Activity Planner for 43.09°N 89.37°W — Interactive

Point Forecast: Madison WI

Weather Activity Planner

This interactive forecast display is intended for general planning purposes. Data entered may have been changed for accuracy. Please verify the below data is appropriate. All wind direction information should be entered in a clockwise direction (using compass directions i.e. E, ESE, SE, etc). Public comments and suggestions are encouraged.

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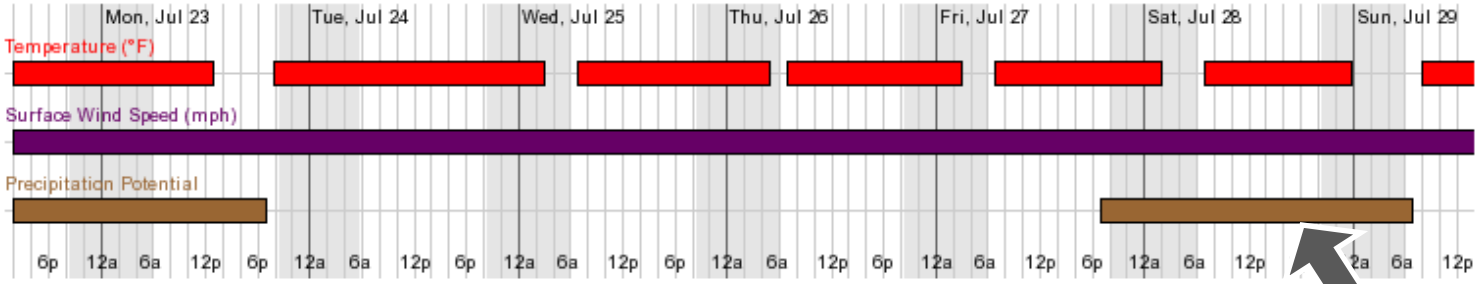
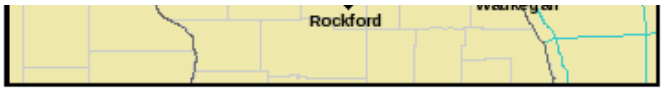


Saturday, July 28 at 6pm
Temperature: 81 °F Surface Wind: NW 7mph
Precipitation Potential: 12%

48-hr Element ... eorogram

Hazardous weather condition(s):
Hazardous Weather Outlook

Element	Min		Max	Element	Min		Max
Temperature (°F)	70	to	90	Surface Wind Speed (mph)		to	
Relative Humidity		to		Sky Cover		to	
Surface Wind Speed (mph)	0	to	15	Precipitation Potential	0	to	25



Last Updated: Sat, Jul. 21 2012 10:02 AM

Zoomed In Map

weather.gov

National Weather Service Weather Forecast Office

Green Bay, WI

Home | Site Map | News | Organization | Search for: | NWS | All NOAA | Go

Local forecast by "City, St" or Zip Code

City, St | Go

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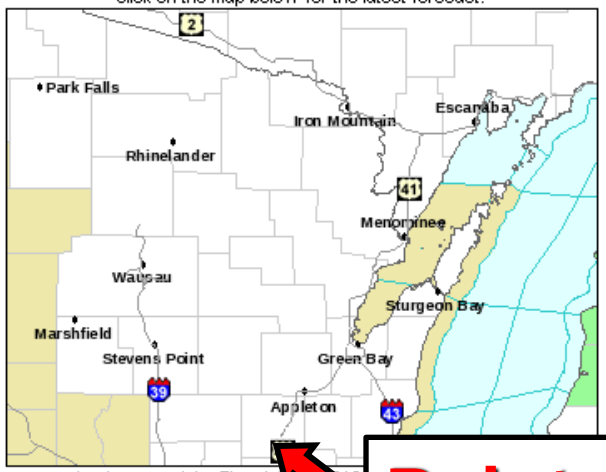
Top News of the Day | Recently Issued: Public Information

- July 27 Severe Storms
- NWS is at the EAA AirVenture
- Oshkosh Weather Briefing and Tactical Decision Support

Watches & Warnings | Observations | Forecast Graphics | Rivers & Lakes | Climate | Marine

Click on the map below for the latest forecast.



Read watches, warnings & advisories | Zoom Out

Hazardous Weather Outlook

Short Term Forecast

Last map update: Thu, Jul 2 10

Point and Click

Latest Conditions in Green

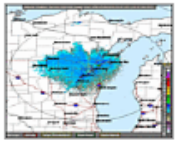
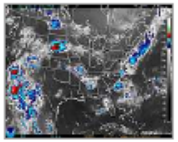
Jul 29
9:53 pm

Clear

67°F
(19°C)

Select A City:

Weather Story | Radar | Satellite | Weather Map

Frequently Requested Pages

- Learn about Past Storms and Weather Events in our forecast area
- Submit your Storm Report
- News of the Day Archive

NWS

WEA

The Forecast

Current Observation

Past Observations

NWS

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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Local forecast by "City, St" or ZIP code
Enter location ... Go
Location Help

Slight Risk of Severe Thunderstorms for Northern Plains

The NWS Storm Prediction Center is forecasting a Slight Risk of severe thunderstorms for this afternoon and evening across parts of the northern Plains, from northeastern South Dakota across eastern North Dakota and northwestern Minnesota. The primary threats are large hail and damaging winds.
Read More...

OSHKOSH WI

En Español

Fair
83°F
28°C

Humidity	40%
Wind Speed	Calm
Barometer	30.13 in (1018.8 mb)
Dewpoint	56°F (13°C)
Visibility	10.00 mi
Heat Index	82°F (28°C)

Last Update on 12 Jul 10:53 am CDT

Current conditions at
Oshkosh, Wittman Regional Airport (KOSH)
Lat: 44.01 Lon: -88.57 Elev: 830ft.

More Local Wx | 3 Day History | Mobile Weather
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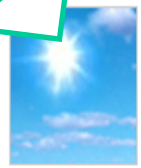
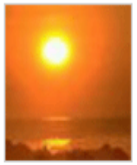
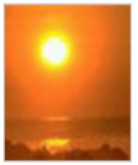
IS RNOON	TONIGHT	FRIDAY	FRIDAY NIGHT	SATURDAY	SATURDAY NIGHT	SUNDAY	SUNDAY NIGHT	MONDAY
				40%	30%	40%		
Sunny	Mostly Clear	Hot	Partly Cloudy	Chance Thunderstorms	Chance Thunderstorms	Chance Thunderstorms	Partly Cloudy	Hot
High: 88 °F	Low: 63 °F	High: 91 °F	Low: 66 °F	High: 89 °F	Low: 69 °F	High: 90 °F	Low: 70 °F	High: 90 °F

7-DAY FORECAST

This Afternoon	Sunny, with a high near 88. Southeast wind around 7 mph.
Tonight	Mostly clear, with a low around 63. South southeast wind 3 to 7 mph.
Friday	Mostly sunny and hot, with a high near 91. Light south southeast wind increasing to 5 to 10 mph in the morning.

NWS Green Bay, WI

Point Forecast:	Oshkosh WI 44.02°N 88.56°W (Elev. 758 ft)
Last Update:	11:15 am CDT Jul 12, 2012
Forecast Valid:	12pm CDT Jul 12, 2012-6pm CDT Jul 18, 2012

Forecast Discussion

KML XML

Past Observations

weather.gov

Weather observations for the past three days

Oshkosh, Wittman Regional Airport

Enter Your "City, ST" or zip code [ ] Go metric en español

Date	Time (cdt)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Temperature (°F)				Relative Humidity	Wind Chill (°F)	Heat Index (°F)	Pressure		Precipitation (in.		
						Air	Dwpt	6 hour					altimeter (in)	sea level (mb)	1 hr	3 hr	6 h
								Max.	Min.								
09	22:53	Calm	10.00	Fair	CLR	59	54			83%	NA	NA	30.05	1017.0			
09	21:53	Calm	10.00	Fair	CLR	60	54			80%	NA	NA	30.04	1016.5			
09	20:53	N 3	10.00	Fair	CLR	64	51			63%	NA	NA	30.02	1015.9			
09	19:53	NW 6	10.00	A Few Clouds	FEW080	67	50			55%	NA	NA	30.01	1015.5			
09	18:53	NW 8	10.00	Fair	CLR	70	50	73	69	49%	NA	NA	30.00	1015.3			
09	17:53	NW 10	10.00	Overcast	OVC085	70	51			51%	NA	NA	30.00	1015.1			
09	16:53	NW 13 G 18	10.00	Overcast	OVC080	70	50			49%	NA	NA	29.99	1014.8			
09	15:53	NW 13	10.00	Mostly Cloudy	FEW055 BKN080	73	50			44%	NA	NA	29.98	1014.3			
09	14:53	NW 9	10.00	Partly Cloudy	FEW050 SCT075	71	50			47%	NA	NA	29.97	1014.1			
09	13:53	NW 12	10.00	Fair	CLR	71	51			49%	NA	NA	29.96	1013.9			
09	12:53	NW 14 G 20	10.00	Partly Cloudy	FEW039 SCT050	70	54	71	60	57%	NA	NA	29.95	1013.5			
09	11:53	NW 12	10.00	A Few Clouds	FEW041 FEW055	70	52			53%	NA	NA	29.94	1012.9			
09	10:53	W 10	10.00	Overcast	SCT027 BKN034 OVC055	67	56			68%	NA	NA	29.93	1012.6			
09	09:53	W 7	10.00	Mostly Cloudy	SCT018 BKN034	67	59			76%	NA	NA	29.91	1012.1			
09	08:53	W 6	10.00	Overcast	FEW017 BKN030 OVC043	64	57			78%	NA	NA	29.91	1012.2			

NWS → Weat

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Scroll Down to…
- Check your forecast location
- Or….

Let's click the Hourly Weather Graph…

	In the morning.
Friday Night	Partly cloudy, with a low around 66. South southeast wind around 6 mph.
Saturday	A 40 percent chance of showers and thunderstorms. Mostly sunny, with a high near 89. South wind 5 to 7 mph.
Saturday Night	A 30 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 69.
Sunday	A 40 percent chance of showers and thunderstorms. Partly sunny and hot, with a high near 90
Sunday Night	Partly cloudy, with a low around 70.
Monday	Mostly sunny and hot, with a high near 90.
Monday Night	Mostly cloudy, with a low around 73.
Tuesday	Partly sunny and hot, with a high near 95.
Tuesday Night	Partly cloudy, with a low around 74.
Wednesday	Mostly sunny and hot, with a high near 94.

ADDITIONAL FORECASTS AND INFORMATION

ZONE AREA FORECAST FOR WINNEBAGO COUNTY, WI

Forecast Discussion
Printable Forecast
Text Only Forecast

Hourly Weather Graph
Tabular Forecast
Quick Forecast

International System of Units
About Point Forecasts

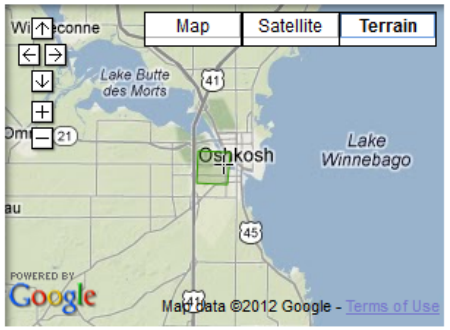
Hazardous Weather
Regional Weather Conditions

Past Weather Information
Marine Weather

Home

In the morning.

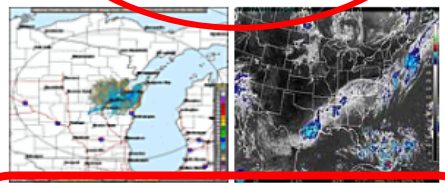
Click Map for Forecast — Disclaimer



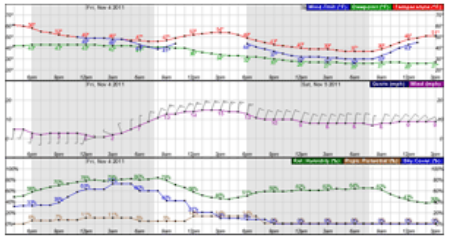
Requested Location Forecast Area

Lat/Lon: 44.02°N 88.56°W **Elevation:** 758 ft

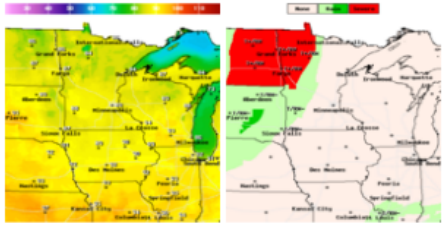
RADAR & SATELLITE IMAGES



HOURLY WEATHER GRAPH



NATIONAL DIGITAL FORECAST DATABASE

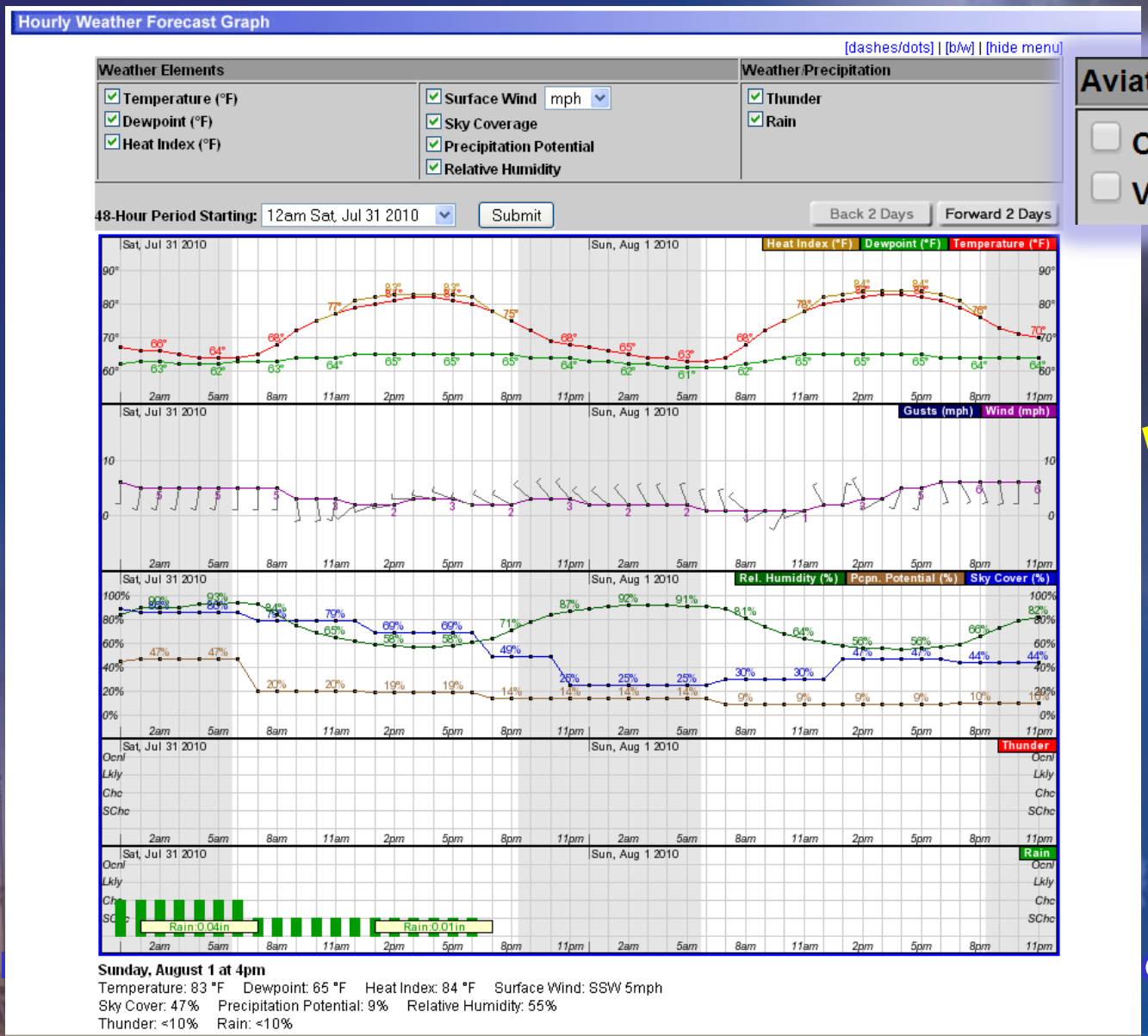


NWS

Hourly Weather Graph

Variables:

- Temp
- Dew point
- Wind
- RH
- Sky Cover
- Probability (Precip. & Thunder)
- Precip. Amount



Eventually…

NWS

WEA

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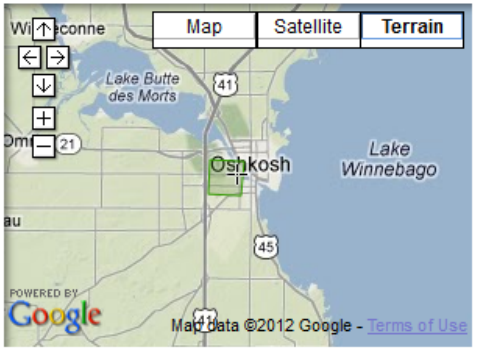

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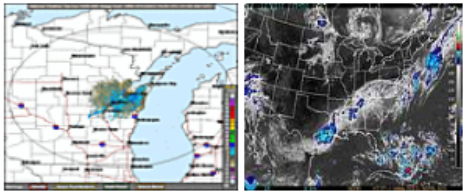
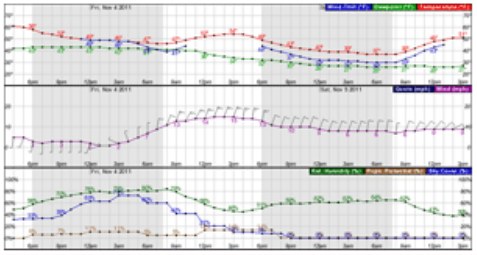
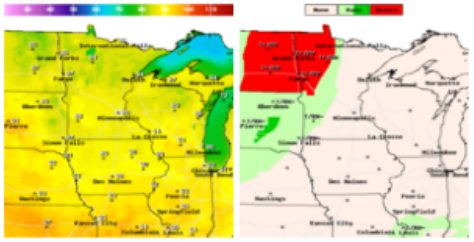


HOURLY WEATHER GRAPH



NATIONAL DIGITAL FORECAST DATABASE



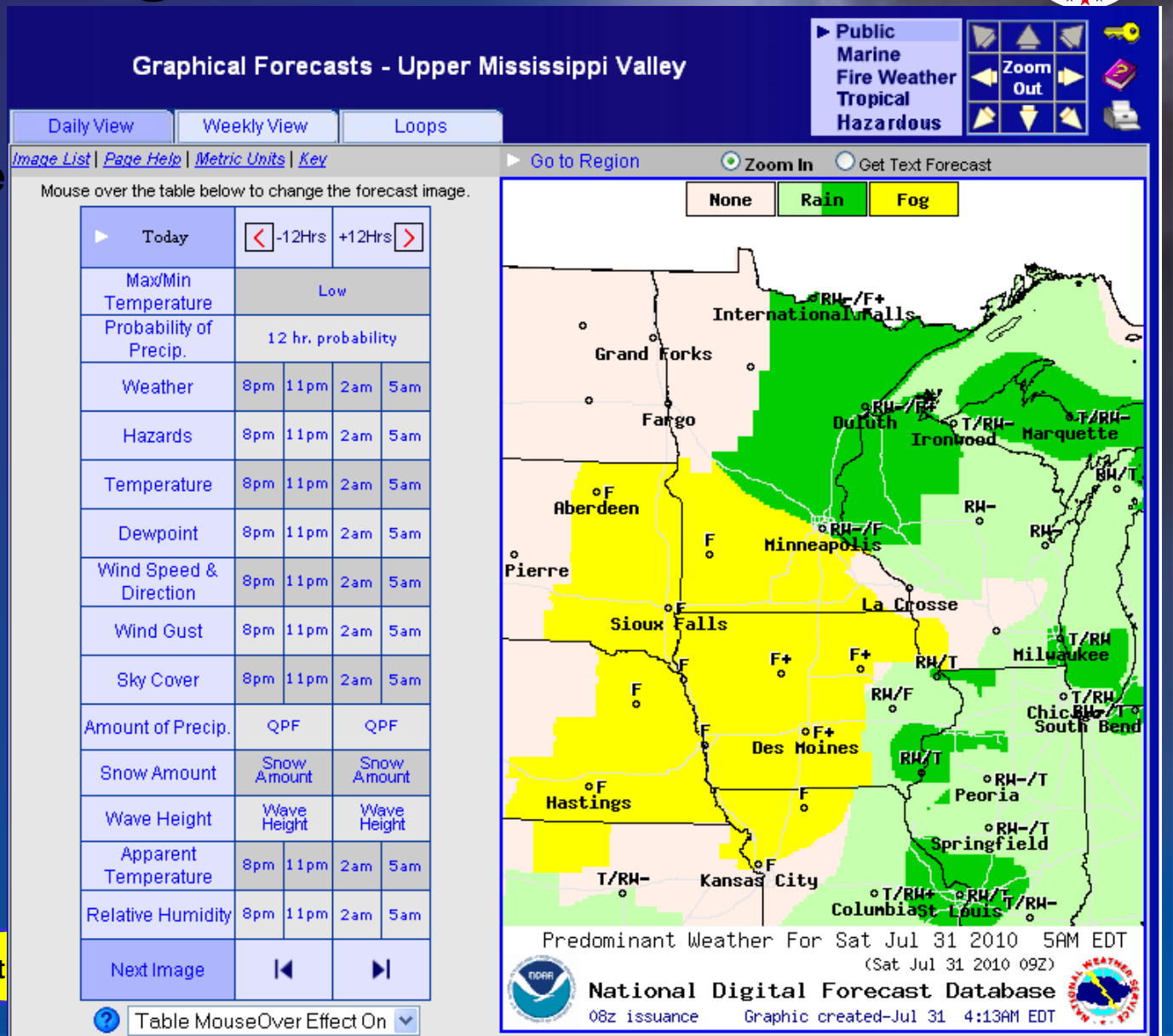
Graphical Depiction

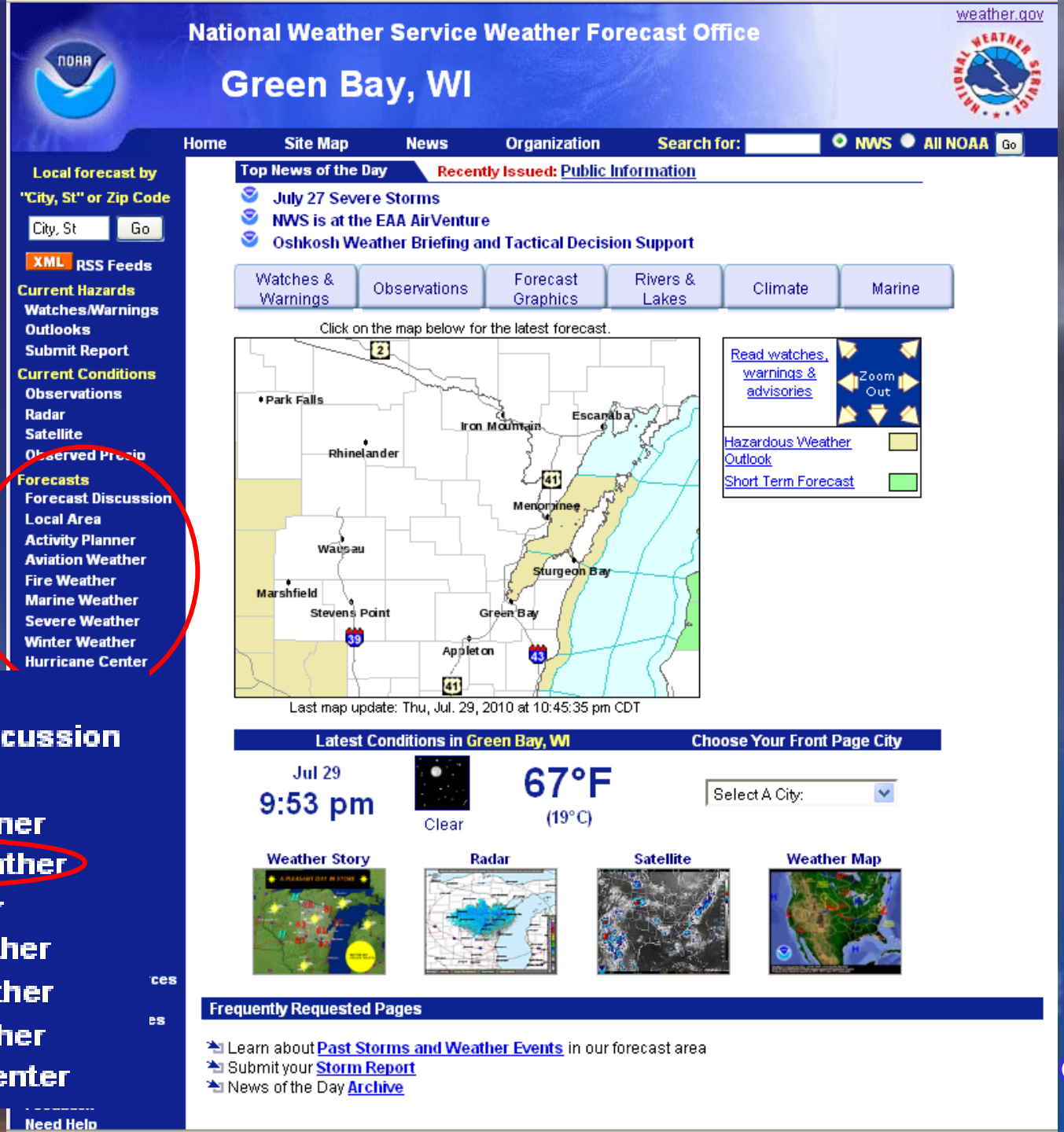
NWS

National Digital Forecast Database

- Use this to develop confidence in the forecast over your location
- If you are in the middle of likely rain, then you would presume higher confidence than if you were on the edge of likely and chance of rain

NWS → Weat





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Caveat! Aviation Pages May Be Different

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Aviation Weather

The Front -- *NWS Aviation Weather Program Newsletter*

Text Products

Surface Observations

METARs -- *By station or state*
U.S. METAR Map -- *Java*
METAR and TAF Decoding

Terminal Aerodrome Forecasts

KGRB Green Bay, WI
KATW Appleton, WI
KAUW Wausau, WI
KCWA Mosinee, WI
KRHI Rhinelander, WI
OSH Oshkosh, WI -- *Issued only in late July/early August*
TAF Map -- *Java*

Winds Aloft Forecast

Locations Across the U.S.

Aviation Forecast Discussions

Locations Across the U.S.

Tactical Decision Aid

KGRB Green Bay, WI
KATW Appleton, WI
KAUW Wausau, WI
KCWA Mosinee, WI
KRHI Rhinelander, WI
OSH Oshkosh, WI -- *Updated only in late July/early August*

Pilot Weather Briefing -- *From the NWS Aviation Weather Center*

Graphics

Satellite Images
NWS Doppler Radar
Midwest Surface Plot

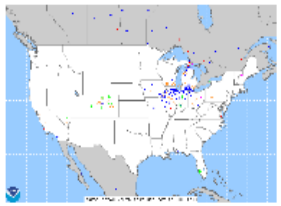
National Weather Service Weather Forecast Office

Milwaukee/Sullivan, WI

Home | Site Map | News | Organization | Search for: NWS All NOAA Go

Aviation Page

Tools for the Aviator:



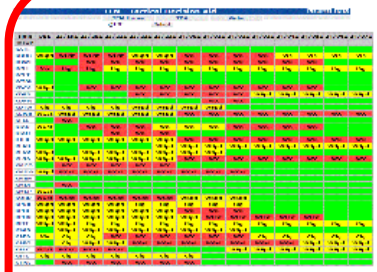
Aviation Weather Center

ADDS:

METARS
TAFS
PIREPS
Satellite

Other Java Tools

Hot Air Balloon Forecast (May-Oct)



Tactical Decision Aid

TDA for:

KMKE KUES
KMSN KENW
KORD
KMDW
KMSP
KGRB

TAFS:

Using the pull down menu to the right, you can retrieve TAFS for Wisconsin, Michigan, Illinois, Minnesota and Iowa. Go here for help in Decoding the TAF

- Local and Surrounding TAFs

Pick then Click

Aviation Forecast Discussions

Tactical Decision Aid

- Oshkosh Example →
- http://new.aviationweather.gov/trafficflowmgmt/tda

OR

- http://go.usa.gov/5PgV
- Local NWS website "Aviation Link"

KOSH - Oshkosh-Wittman Rgnl

Updated at: 1754 UTC 23 Jul 2014
Latest TAF at: 1129 UTC 23 Jul 2014

TAF Board

Time	1653Z	23/18Z	23/19Z	23/20Z	23/21Z	23/22Z	23/23Z	24/00Z	24/01Z	24/02Z	24/03Z	24/04Z	24/05Z	24/06Z
Type	OBS	PRVL [TEMP]	PRVL [TEMP]	PRVL [TEMP]	PRVL	PRVL	PRVL	PRVL	PRVL	PRVL	PRVL	PRVL	PRVL	PRVL
Vis	10	>6	>6	>6	>6	>6	>6	>6	>6	>6	>6	>6	>6	>6
Cig	--	-- [45]	-- [45]	-- [45]	--	--	--	--	--	--	--	--	--	--
Cover	FEW	SCT [BKN]	SCT [BKN]	SCT [BKN]	SCT	SCT	SKC	SKC	SKC	SKC	SKC	SKC	SKC	SKC
FltCat	--	VFR [VFR]	VFR [VFR]	VFR [VFR]	VFR	VFR	VFR	VFR	VFR	VFR	VFR	VFR	VFR	VFR
Wx	--	-- [--]	-- [--]	-- [--]	--	--	--	--	--	--	--	--	--	--
WDir	40	10 [10]	10 [10]	10 [10]	10	10	50	50	50	50	50	50	50	50
WSpd	11	10 [10]	10 [10]	10 [10]	10	10	7	7	7	7	7	7	7	7
WGst	--	17 [17]	17 [17]	17 [17]	17	17	--	--	--	--	--	--	--	--
R04/22														
XWnd	1	6	6	6	6	6	-1	-1	-1	-1	-1	-1	-1	-1
XGst	--	10	10	10	10	10	--	--	--	--	--	--	--	--
HWnd	11	8	8	8	8	8	7	7	7	7	7	7	7	7
HGst	--	14	14	14	14	14	--	--	--	--	--	--	--	--
R09/27														
XWnd	9	10	10	10	10	10	5	5	5	5	5	5	5	5
XGst	--	17	17	17	17	17	--	--	--	--	--	--	--	--
HWnd	7	2	2	2	2	2	5	5	5	5	5	5	5	5
HGst	--	3	3	3	3	3	--	--	--	--	--	--	--	--
R13/31														
XWnd	11	9	9	9	9	9	7	7	7	7	7	7	7	7
XGst	--	15	15	15	15	15	--	--	--	--	--	--	--	--
HWnd	0	-5	-5	-5	-5	-5	1	1	1	1	1	1	1	1
HGst	--	-8	-8	-8	-8	-8	--	--	--	--	--	--	--	--
R18/36														
XWnd	7	2	2	2	2	2	5	5	5	5	5	5	5	5
XGst	--	3	3	3	3	3	--	--	--	--	--	--	--	--
HWnd	-9	-10	-10	-10	-10	-10	-5	-5	-5	-5	-5	-5	-5	-5
HGst	--	-17	-17	-17	-17	-17	--	--	--	--	--	--	--	--

Raw TAF

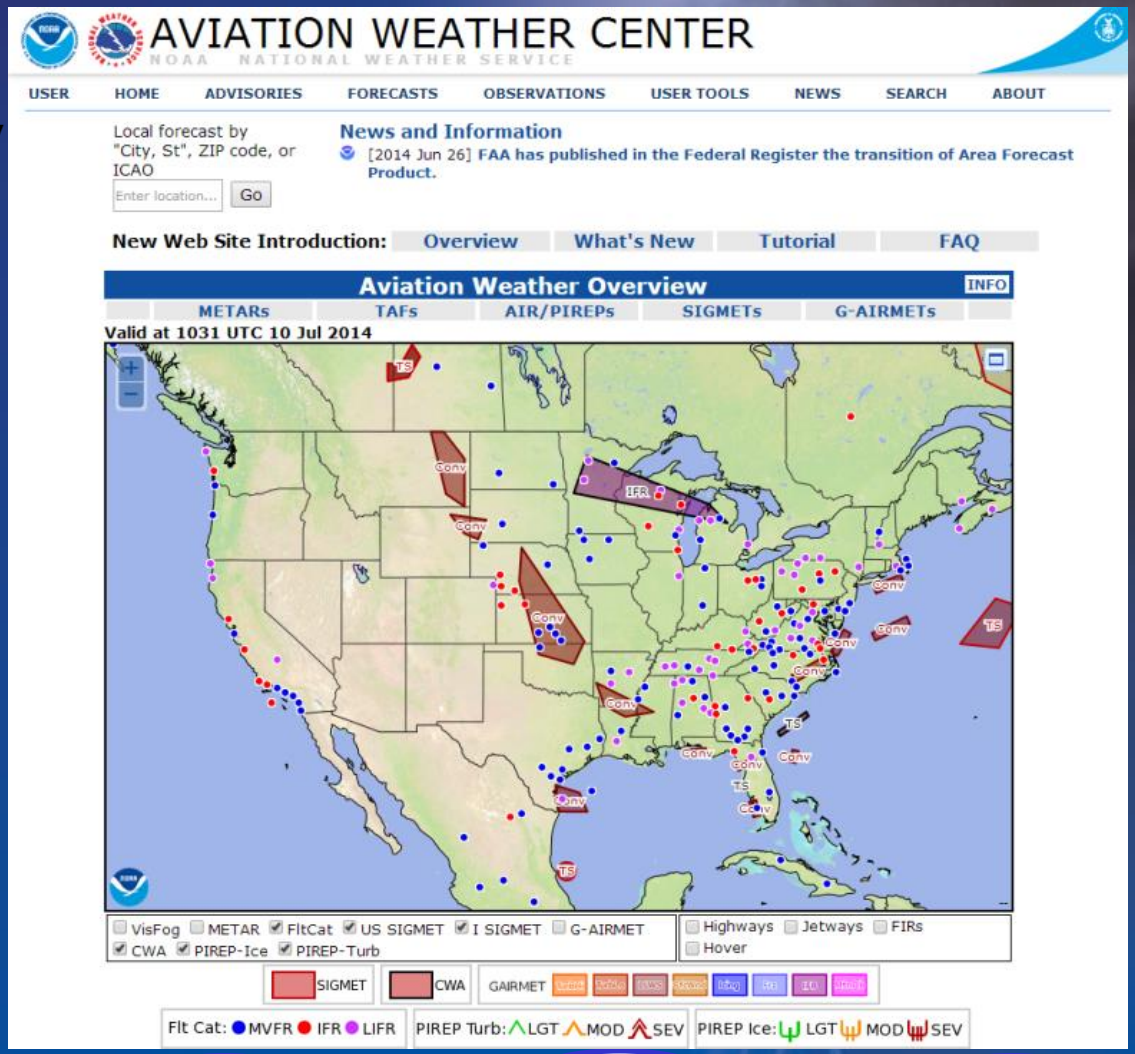
```
KOSH 231129Z 2312/2412 34006KT P6SM SCT050
  FM231500 01010G17KT P6SM SCT045 SCT070
  TEMPO 2317/2321 BKN045 BKN070
  FM232300 05007KT P6SM SKC
```

Aviation Weather Websites

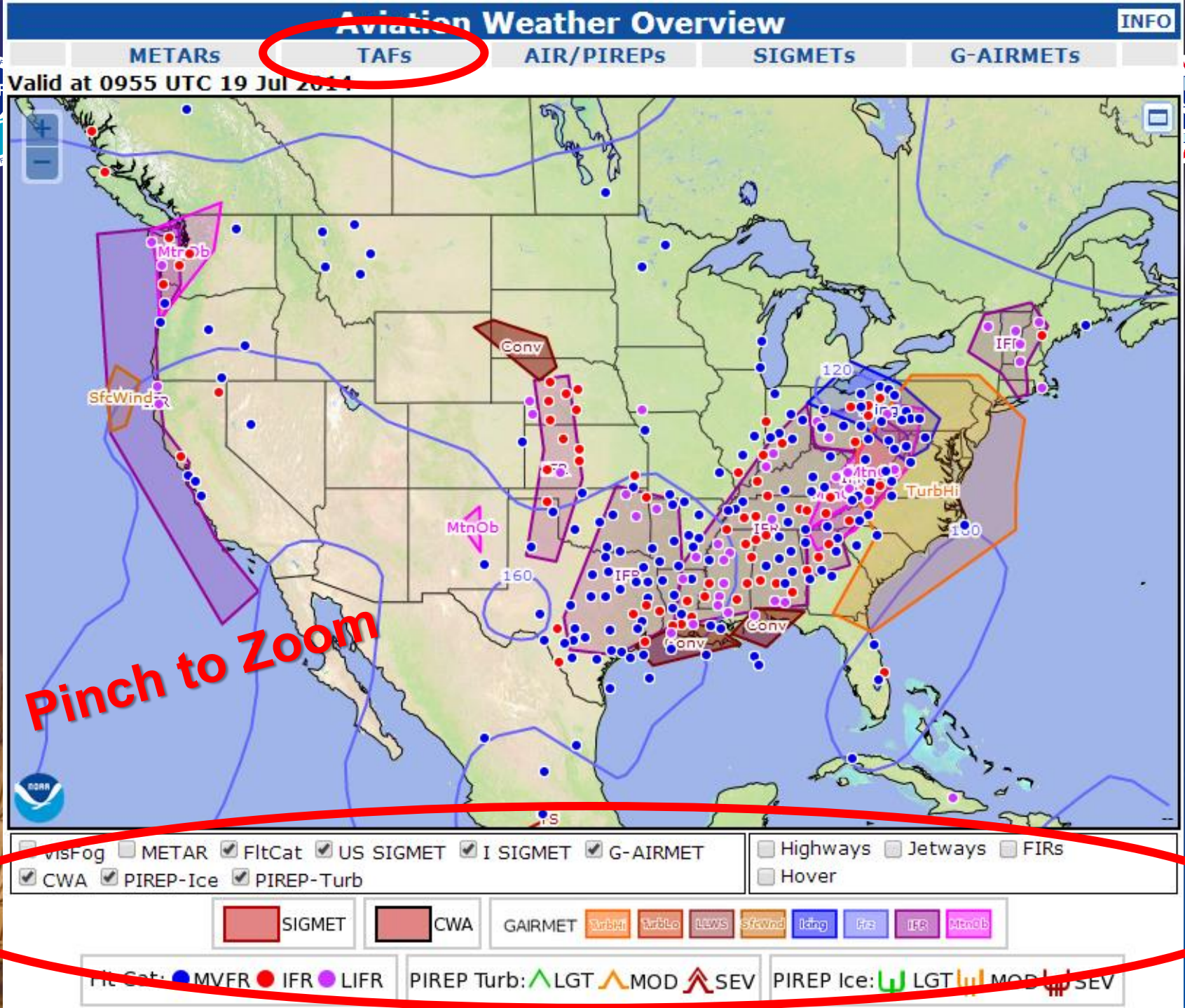
NWS → Weather.gov → Aviation Sites → Mobile → WEA

Aviation Weather Center

- Aviationweather.gov
- New Look
- Mobile-friendly map interface



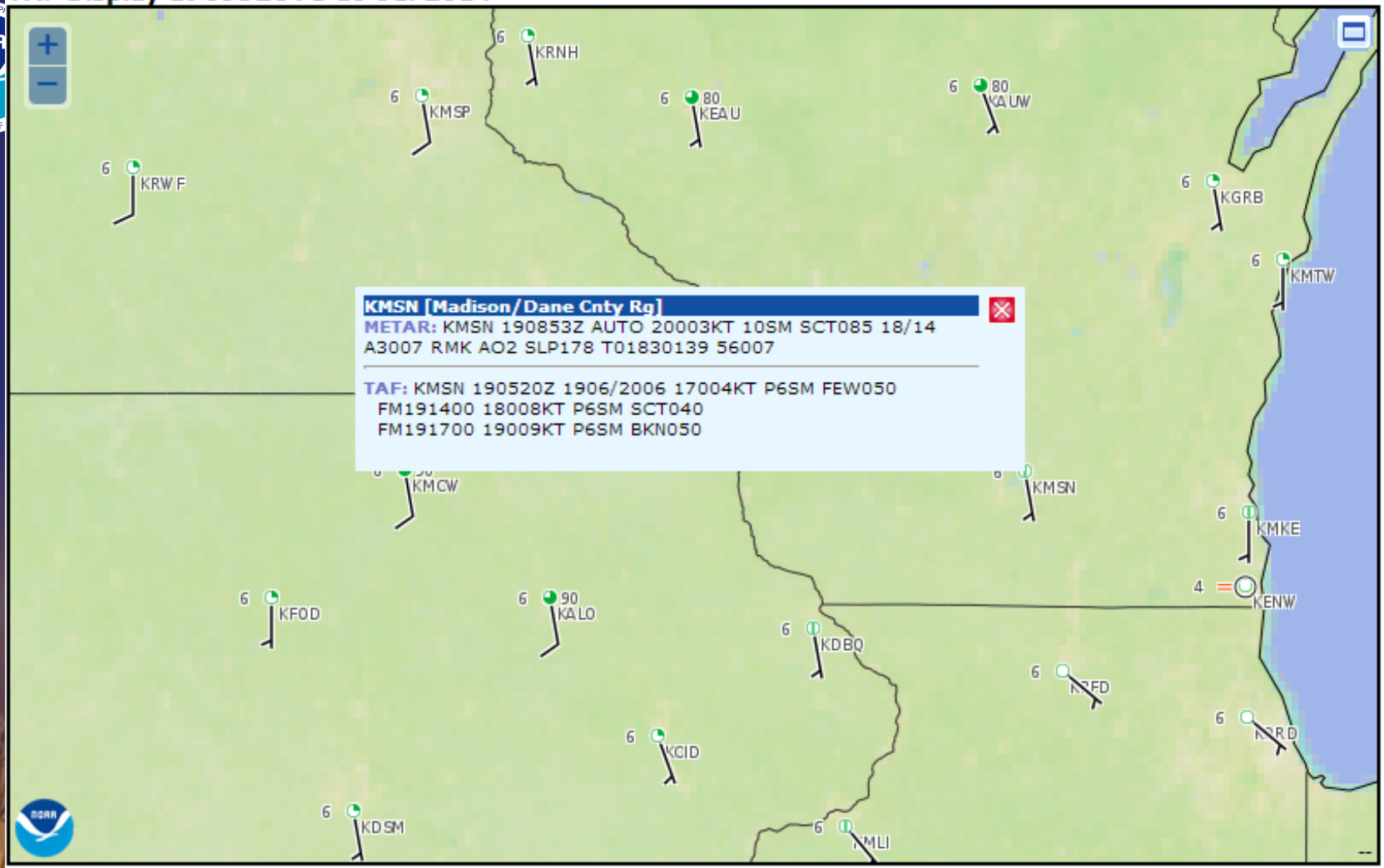
NWS → Weather.gov → Aviation Sites → Mobile → WEA


Aviation Weather Overview
INFO
METARs
TAFs
AIR/PIREPs
SIGMETs
G-AIRMETs
Valid at 0955 UTC 19 Jul 2014
MtnOb
SfcWind
Conv
MtnOb
160
120
TurbHi
IFR
Conv
Pinch to Zoom
VisFog
METAR
FltCat
US SIGMET
I SIGMET
G-AIRMET
CWA
PIREP-Ice
PIREP-Turb
Highways
Jetways
FIRs
Hover
SIGMET
CWA
GAIRMET
TurbHi
TurbLo
LLWS
SfcWnd
Icing
Frz
IFR
MtnOb
MVFR
IFR
LIFR
PIREP Turb:
LGT
MOD
SEV
PIREP Ice:
LGT
MOD
SEV

ADDS TAFs

INFO

TAF Display at 0952UTC 19 Jul 2014



Map:
- (•) Light
- ( ) Dark
- ( ) Simple

Plot Options:
- Station model ▾ Param
- 0 ▾ Data density
- [ ] Metric [ ] Hover 1 ▾ Scale

Data Options:
- 0hr - 09 UTC 19 Jul ▾ Time
- (•) Prevail ( ) Tempo
- [ ] Decoded [x] METARs

Overlays:
- [ ] Highways
- [ ] Top Jetways
- [ ] ARTCC/FIR Bounds

Vis–0.5 17 —Ceil
Wx KRFD —Id
—Windbarb

Wind ◎ Calm 15knt 60knt

Flt Cat: MVFR IFR LIFR

AVIATION WEATHER CENTER

NOAA NATIONAL WEATHER SERVICE

USER | HOME | ADVISORIES | FORECASTS | OBSERVATIONS | USER TOOLS | NEWS | SEARCH | ABOUT

- Convection
- Turbulence
- Icing
- Winds/Temps
- Prog Charts
- TAFs
- WAFS Forecasts
- Area Forecasts
- Syn. Forecast Dis...

Local forecast by "City, St", ZIP code, or ICAO

Enter location... Go

...tion

...as published in the Federal Register the transition of Area Forecast

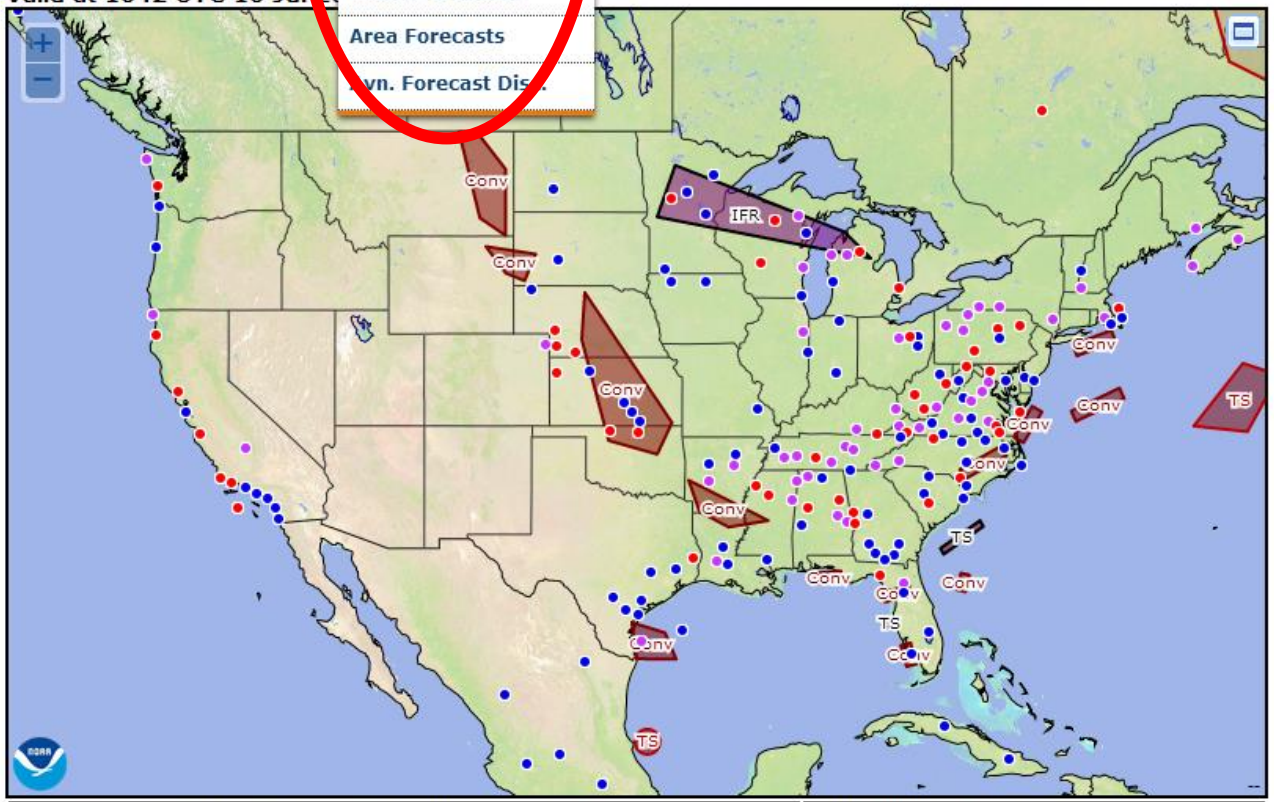
New Web Site Introduc...

What's New | Tutorial | FAQ

...ther Overview INFO

METARs | ...R/PIREPs | SIGMETs | G-AIRMETs

Valid at 1042 UTC 10 Jul 2...



VisFog METAR FltCat US SIGMET I SIGMET G-AIRMET
CWA PIREP-Ice PIREP-Turb

Highways Jetways FIRs
Hover

SIGMET CWA GAIRMET TurbHi TurbLo LLWS SfcWnd Icing Fzlvl IFR MtnOb

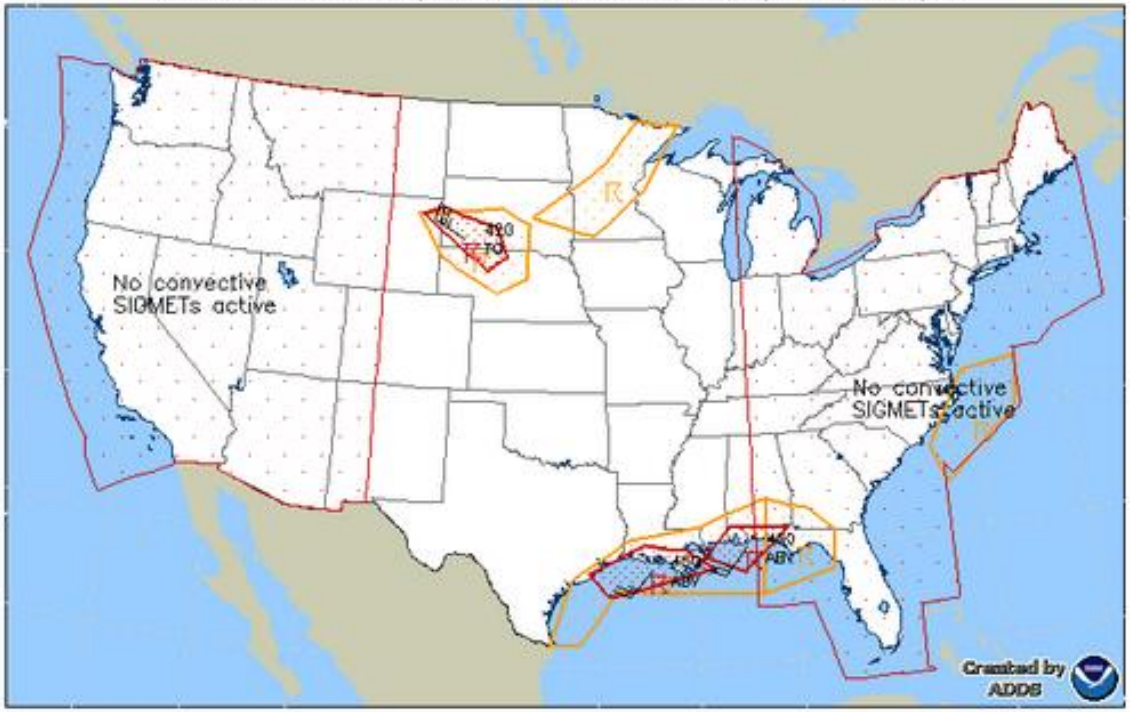
Flt Cat: MVFR IFR LIFR PIREP Turb: LGT MOD SEV PIREP Ice: LGT MOD SEV

ADDS Convection

Click on images to access plots

Current Convective Sigmets

SIGMETs valid until 1155z/19th, Outlooks valid from 1155z/19th to 1555z/19th

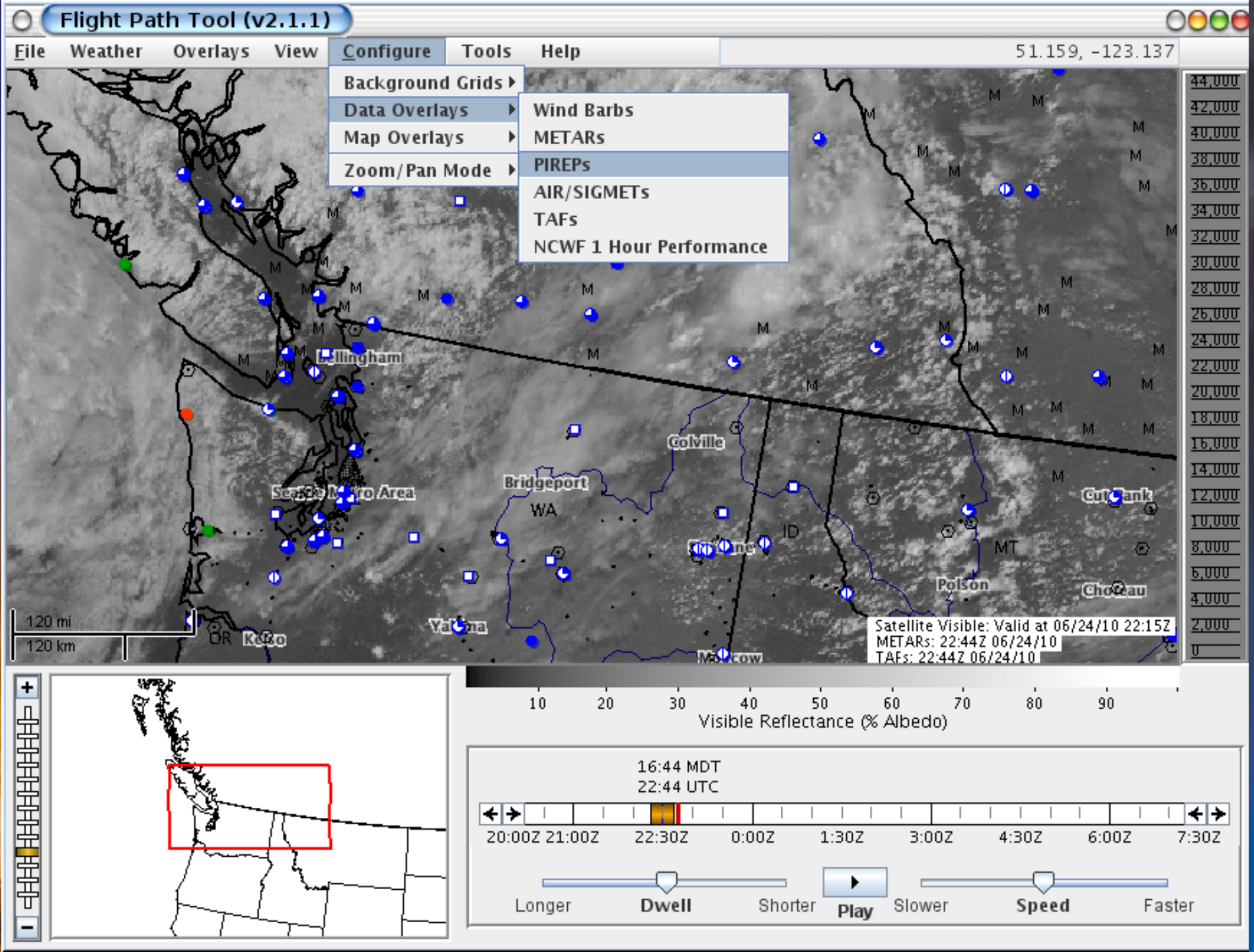


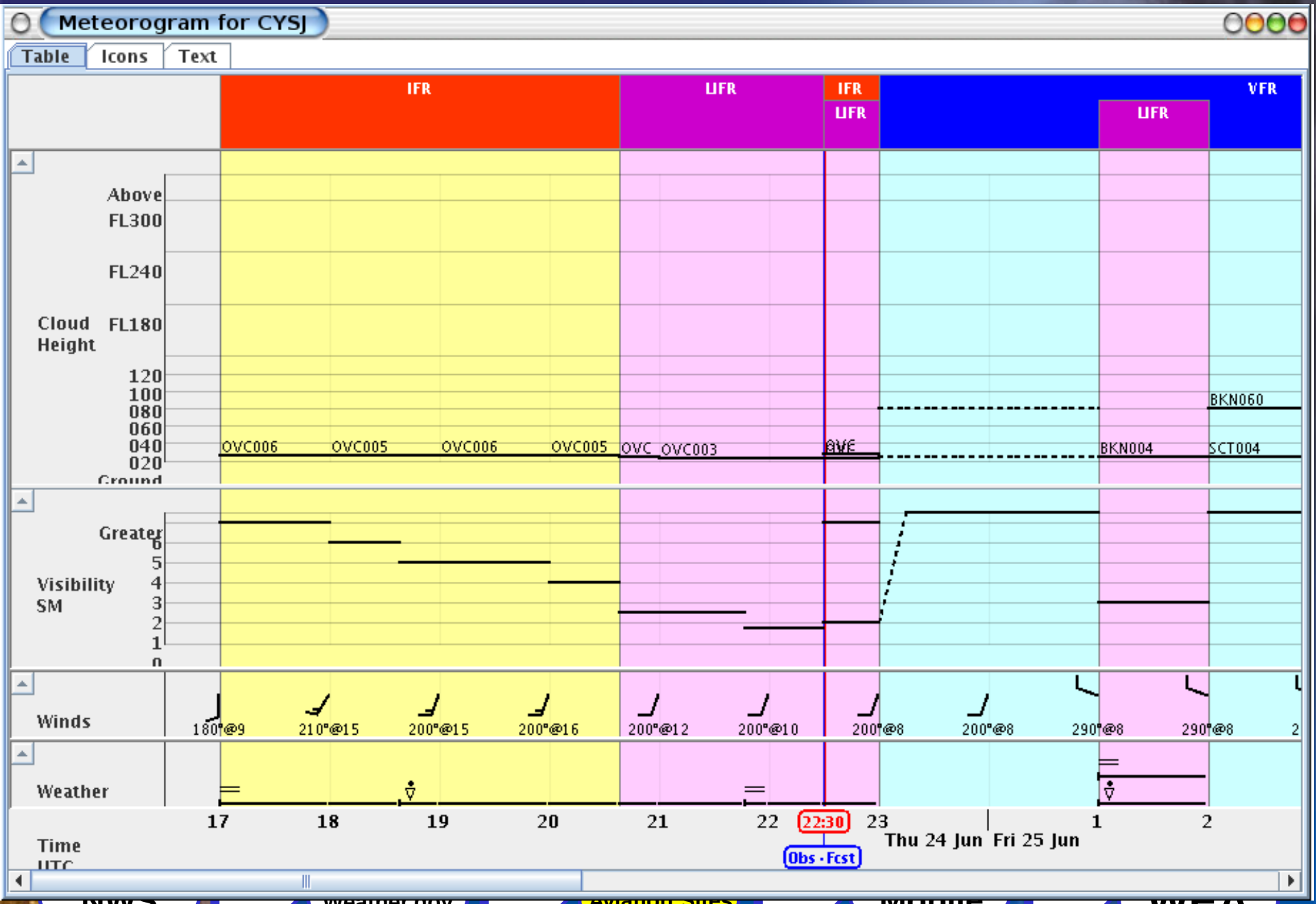
CCFP

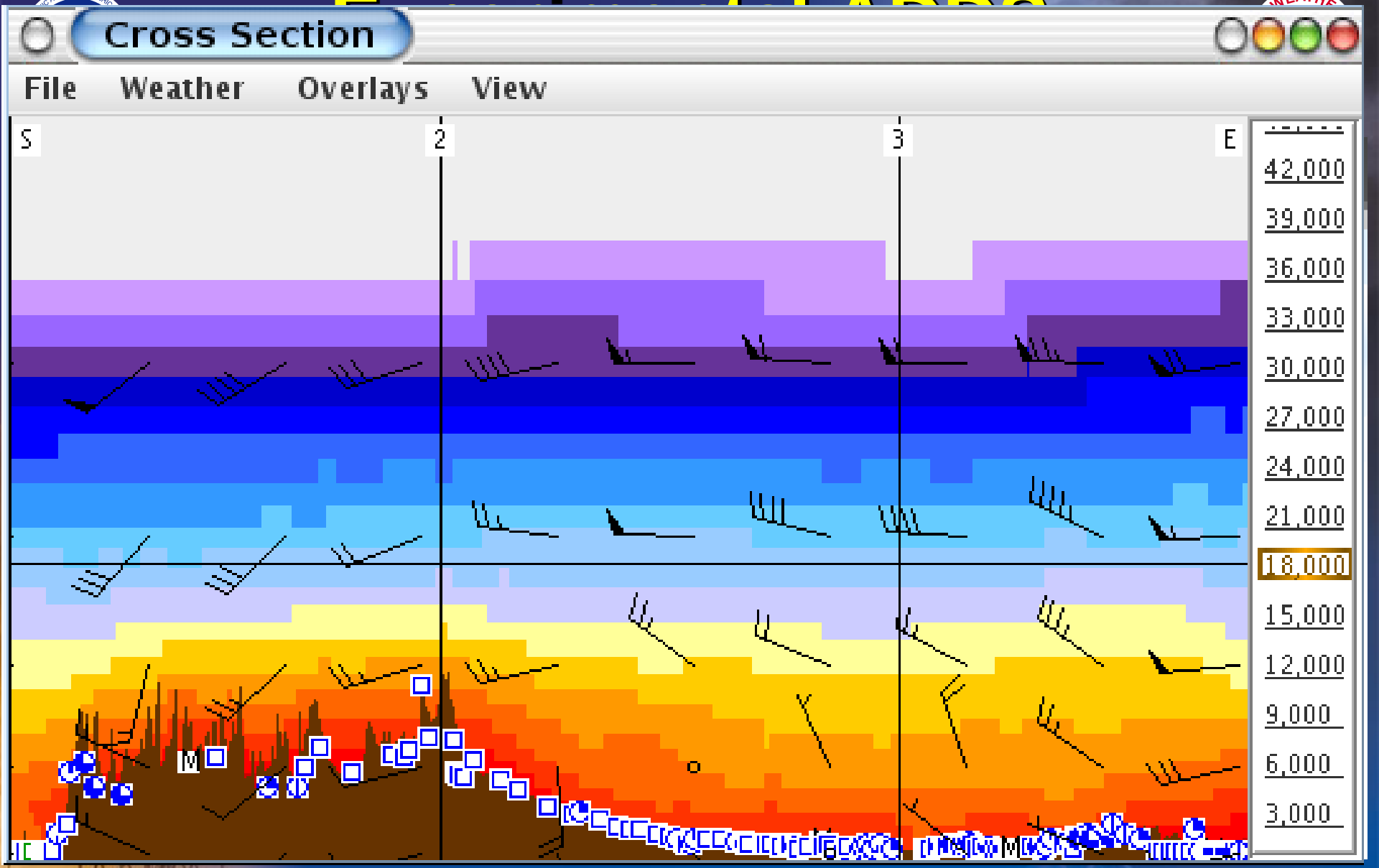
ECFP

Collaborative Convective Forecast Product

Extended Convective Forecast Product


Flight Path Tool (v2.1.1)
File
Weather
Overlays
View
Configure
Tools
Help
51.159, -123.137
Background Grids
Data Overlays
Map Overlays
Zoom/Pan Mode
Wind Barbs
METARs
PIREPs
AIR/SIGMETs
TAFs
NCWF 1 Hour Performance
Bellingham
Colville
Bridgeport
WA
ID
MT
Polson
Cut Bank
OR
120 mi
120 km
Satellite Visible: Valid at 06/24/10 22:15Z
METARs: 22:44Z 06/24/10
TAFs: 22:44Z 06/24/10
10
20
30
40
50
60
70
80
90
Visible Reflectance (% Albedo)
16:44 MDT
22:44 UTC
20:00Z
21:00Z
22:30Z
0:00Z
1:30Z
3:00Z
4:30Z
6:00Z
7:30Z
Longer
Dwell
Shorter
Play
Slower
Speed
Faster


Meteorogram for CYSJ
Table
Icons
Text
IFR
LIFR
IFR
LIFR
LIFR
VFR
Above
FL300
FL240
FL180
Cloud
Height
120
100
080
060
040
020
Ground
OVC006
OVC005
OVC006
OVC005
OVC
OVC003
OVC
BKN004
BKN060
SCT004
Greater
6
5
4
3
2
1
0
Visibility
SM
Winds
180°@9
210°@15
200°@15
200°@16
200°@12
200°@10
200°@8
200°@8
290°@8
290°@8
Weather
17
18
19
20
21
22
22:30
23
1
2
Thu 24 Jun
Fri 25 Jun
Time
UTC
Obs · Fcst

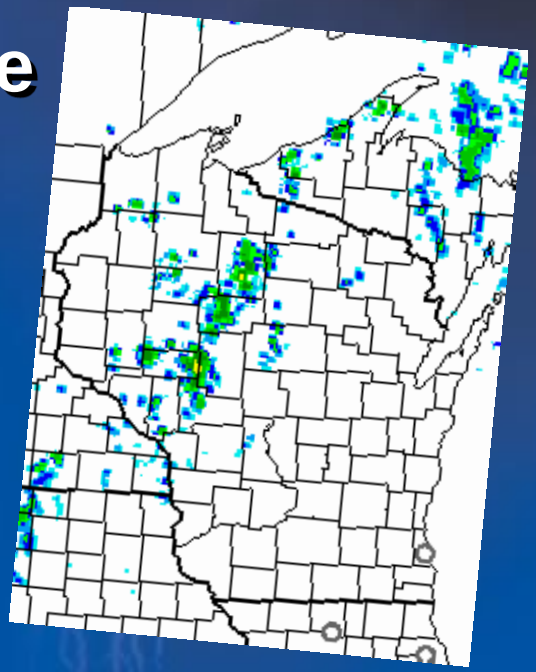


NWS → Weather.gov → Aviation Sites → Mobile → WEA

Forecast “Radar”

- http://rapidrefresh.noaa.gov/HRRR
- HRRR Model (hourly out to 15 hours)

- Get idea for precipitation coverage
- Use with caution – models have limitations!



HRRR Home Info Page

Current and Forecast Graphics

3km HRRR-CONUS hourly
Alternative 3km HRRR prods
3km HRRR-CONUS 15min
3km HRRR-Aviation hourly
3km HRRR-Aviation 15min
3km HRRR Soundings
Western US HRRR-chem-fire
HRRR Reflectivity Matrix
CONUS-HRRR domain parms
HRRR static fields inc lat/lon (NetCDF-952 MB)
WFIP-HRRR domain
CONUS-HRRR terrain info
HRRR WPS Namelist
HRRR WRF Namelist
HRRR GRIB2 Table 2-D Hourly
HRRR GRIB2 Table 2-D 15 min
HRRR GRIB2 Table Native
HRRR GRIB2 Table Press
HRRR/RAP diagnosis of output fields
Rapid Refresh web page
RUC GRIB viewer
HRRR FAQ page

HRRR Status

HRRR Status
HRRR Status (Past 24 hrs)
HRRR Dev1 Status
HRRR Dev1 Status (Past 24 hrs)
HRRR Dev2 Status
HRRR Dev2 Status (Past 24 hrs)
RAP-ESRL (HRRR Parent)
RAP Dev1 (HRRR Dev1 Parent)

HRRR Convective Probabilities

HRRR Model Fields - Experimental

Model: HRRR-primary Area: NC Date: 20 Jul 2014 - 01Z

Model: HRRR-primary **Domain:** NC **Date:** 20 Jul 2014 - 01Z

			Valid Time															
			Sun 01	Sun 02	Sun 03	Sun 04	Sun 05	Sun 06	Sun 07	Sun 08	Sun 09	Sun 10	Sun 11	Sun 12	Sun 13	Sun 14	Sun 15	Sun 16
	All times	Loop	Forecast															
			00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
all fields			00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1 km agl reflectivity	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
composite reflectivity	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
ensemble comp reflectivity	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
max 1 km agl reflectivity	✔	✔		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
surface CAPE	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
surface CIN	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
mixed CAPE	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
most unstable CAPE	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
most unstable layer CAPE	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
best LI	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
LCL	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0-1 km shear	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0-6 km shear	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0-1 km helicity, storm motion	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0-3 km helicity, storm motion	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
2-5 km updraft helicity	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1-6 km updraft helicity	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
2-5 km max updraft helicity	✔	✔		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1-6 km max updraft helicity	✔	✔		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
ensemble updraft helicity	✔	✔	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
convective activity 1	✔	✔		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

Earth System Research Laboratory

High Resolution Rapid Refresh (HRRR)

Current and Forecast Graphics

- 3km HRRR-CONUS hourly
- Alternative 3km HRRR prods
- 3km HRRR-CONUS 15min
- 3km HRRR-Avi
- 3km HRRR-Avi
- 3km HRRR So

Domain: NC

- Full
- NW
- NC
- NE
- SW
- SC
- SE

Date: 20 Jul 2014 - 01Z

- 20 Jul 2014 - 02Z
- 20 Jul 2014 - 01Z
- 20 Jul 2014 - 00Z
- 19 Jul 2014 - 23Z
- 19 Jul 2014 - 22Z
- 19 Jul 2014 - 21Z
- 19 Jul 2014 - 20Z
- 19 Jul 2014 - 19Z
- 19 Jul 2014 - 18Z
- 19 Jul 2014 - 17Z
- 19 Jul 2014 - 16Z
- 19 Jul 2014 - 15Z
- 19 Jul 2014 - 14Z
- 19 Jul 2014 - 13Z
- 19 Jul 2014 - 12Z
- 19 Jul 2014 - 11Z
- 19 Jul 2014 - 10Z
- 19 Jul 2014 - 09Z
- 19 Jul 2014 - 08Z
- 19 Jul 2014 - 07Z

	All times	Loop
all fields		
1 km agl reflectivity	✓	✓
composite reflectivity	✓	✓
ensemble comp reflectivity	✓	✓
max 1 km agl reflectivity	✓	✓

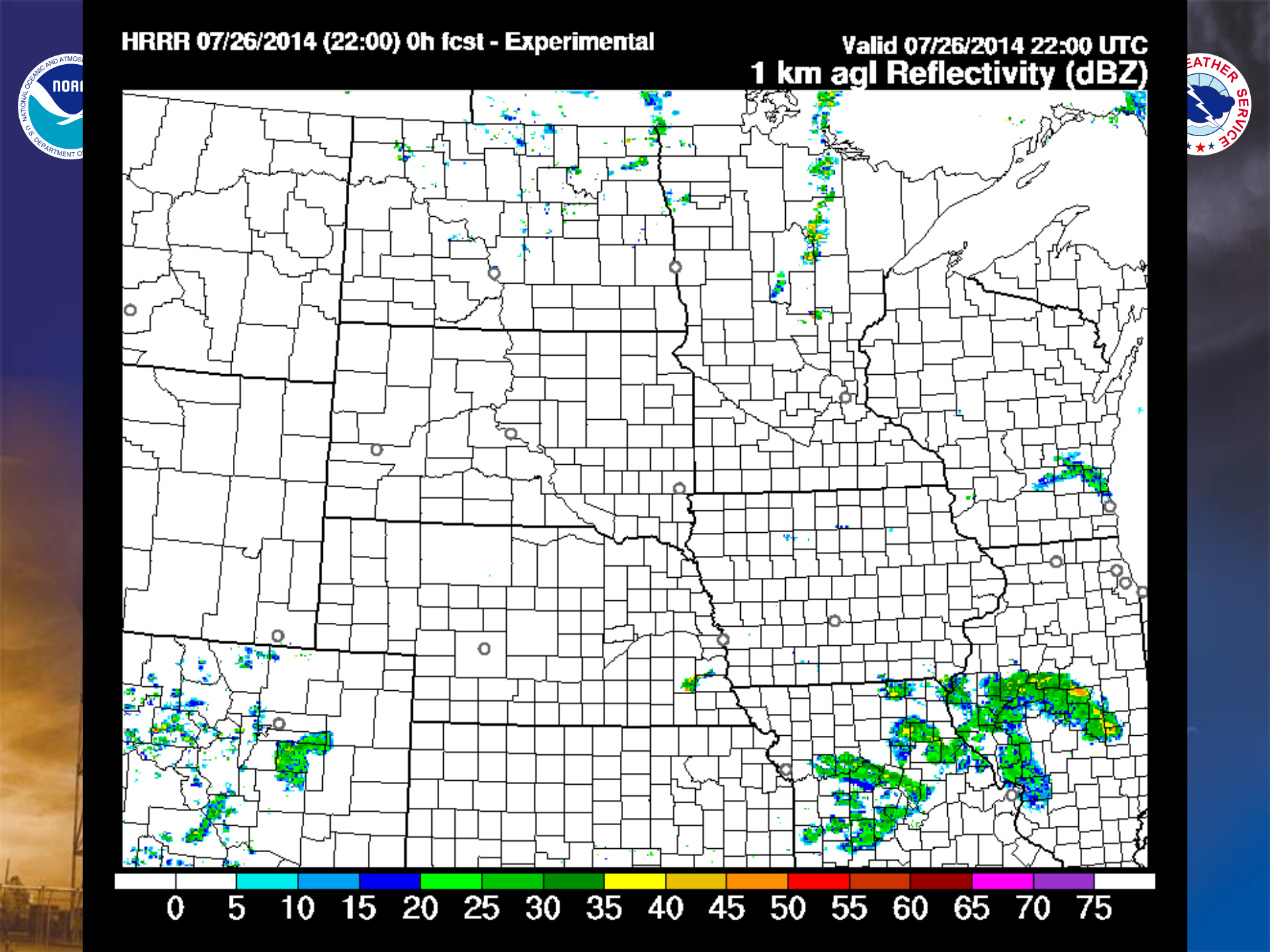
- HRRR WPS Namelist
- HRRR WRF Namelist
- HRRR GRIB2 Table 2-D Hourly
- HRRR GRIB2 Table 2-D 15 min
- HRRR GRIB2 Table Native
- HRRR GRIB2 Table Press
- HRRR/RAP diagnosis of output fields
- Rapid Refresh web page
- RUC GRIB viewer
- HRRR FAQ page

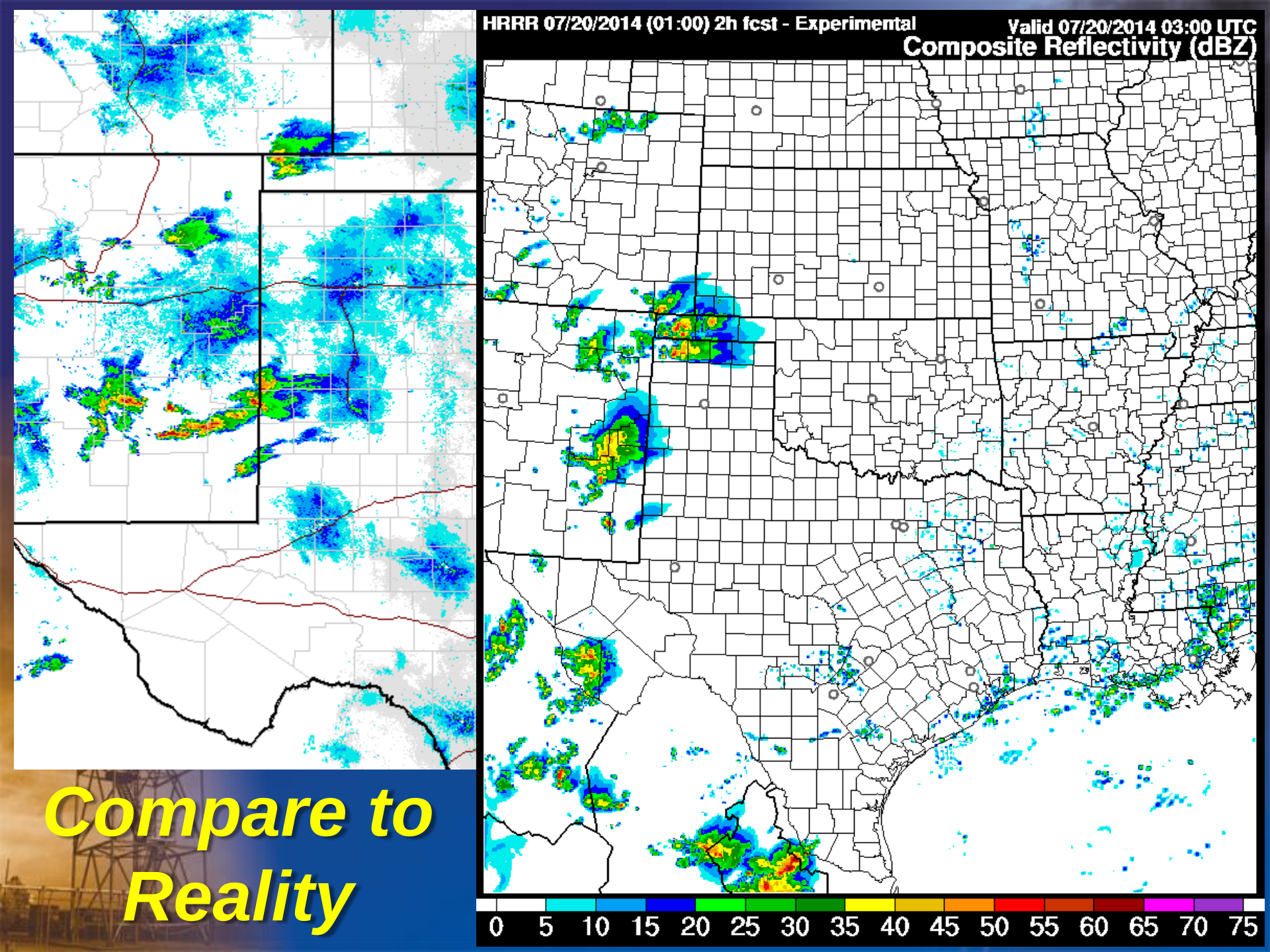
HRRR Status

- HRRR Status
- HRRR Status (Past 24 hrs)
- HRRR Dev1 Status
- HRRR Dev1 Status (Past 24 hrs)
- HRRR Dev2 Status
- HRRR Dev2 Status (Past 24 hrs)
- RAP-ESRL (HRRR Parent)
- RAP Dev1 (HRRR Dev1 Parent)

HRRR Convective Probabilities

most unstable layer CAPE	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
best LI	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
LCL	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0-1 km shear	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0-6 km shear	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0-1 km helicity, storm motion	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0-3 km helicity, storm motion	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
2-5 km updraft helicity	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1-6 km updraft helicity	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
2-5 km max updraft helicity	✓	✓		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1-6 km max updraft helicity	✓	✓		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
ensemble updraft helicity	✓	✓	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
convective activity 1	✓	✓		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15


HRRR 07/26/2014 (22:00) 0h fcst - Experimental
Valid 07/26/2014 22:00 UTC
1 km agl Reflectivity (dBZ)
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

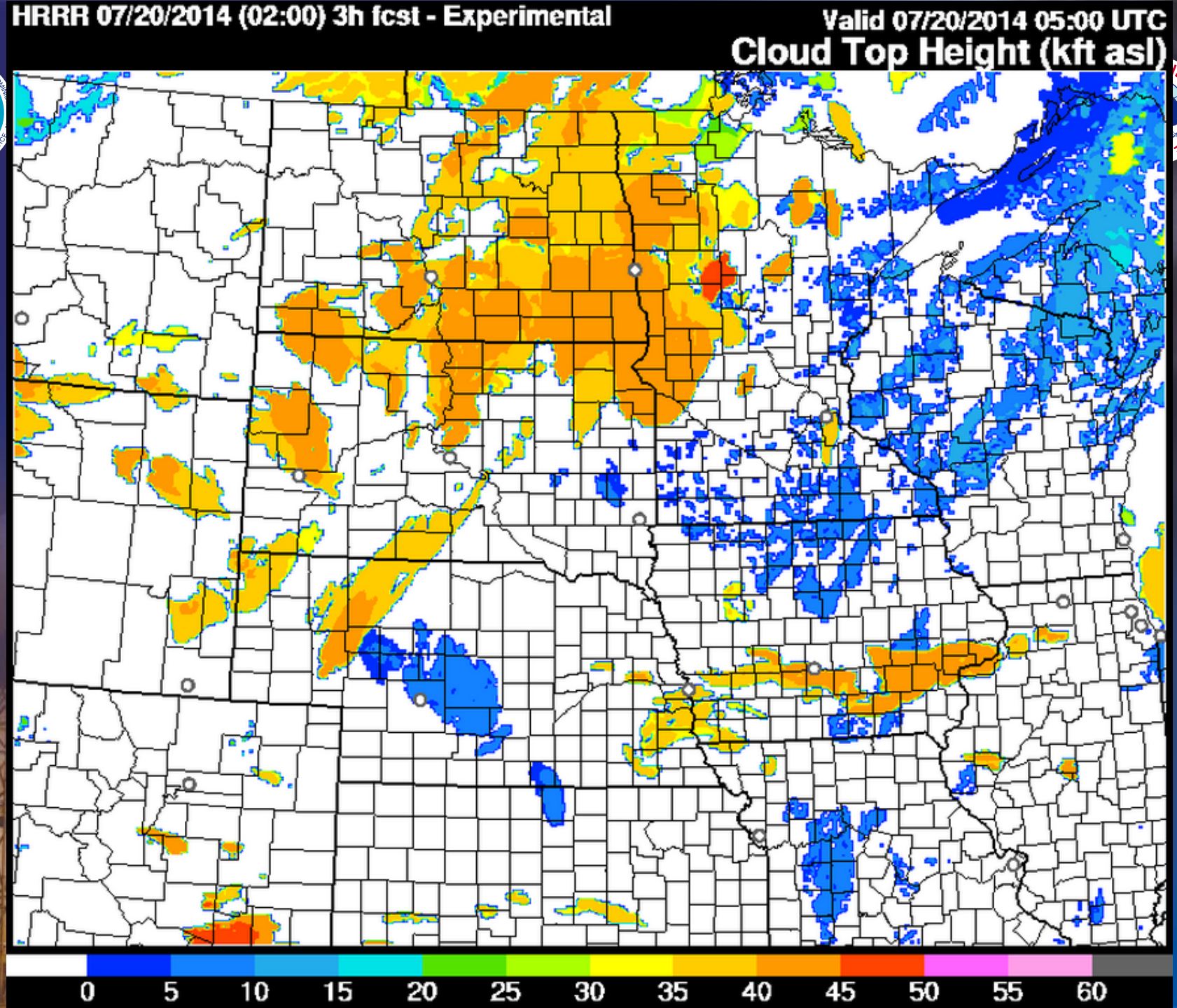

HRRR 07/20/2014 (01:00) 2h fcst - Experimental
Valid 07/20/2014 03:00 UTC
Composite Reflectivity (dBZ)
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
Compare to Reality

Forecast Aviation Fields

Current and Forecast Graphics

- 3km HRRR-CONUS hourly
- Alternative 3km HRRR prods
- 3km HRRR-CONUS 15min
- 3km HRRR-Aviation hourly
- 3km HRRR-Aviation 15min
- 3km HRRR Soundings

	All times	Loop
all fields		
composite reflectivity	✔	✔
RADAR VIL	✔	✔
echotop height	✔	✔
visibility	✔	✔
cloud top height	✔	✔
ceiling	✔	✔
aviation flight rules	✔	✔
10m wind	✔	✔
10m wind gust	✔	✔
precip type	✔	✔
1h acc snowfall	✔	✔


HRRR 07/20/2014 (02:00) 3h fcst - Experimental
Valid 07/20/2014 05:00 UTC
Cloud Top Height (kft asl)
0
5
10
15
20
25
30
35
40
45
50
55
60

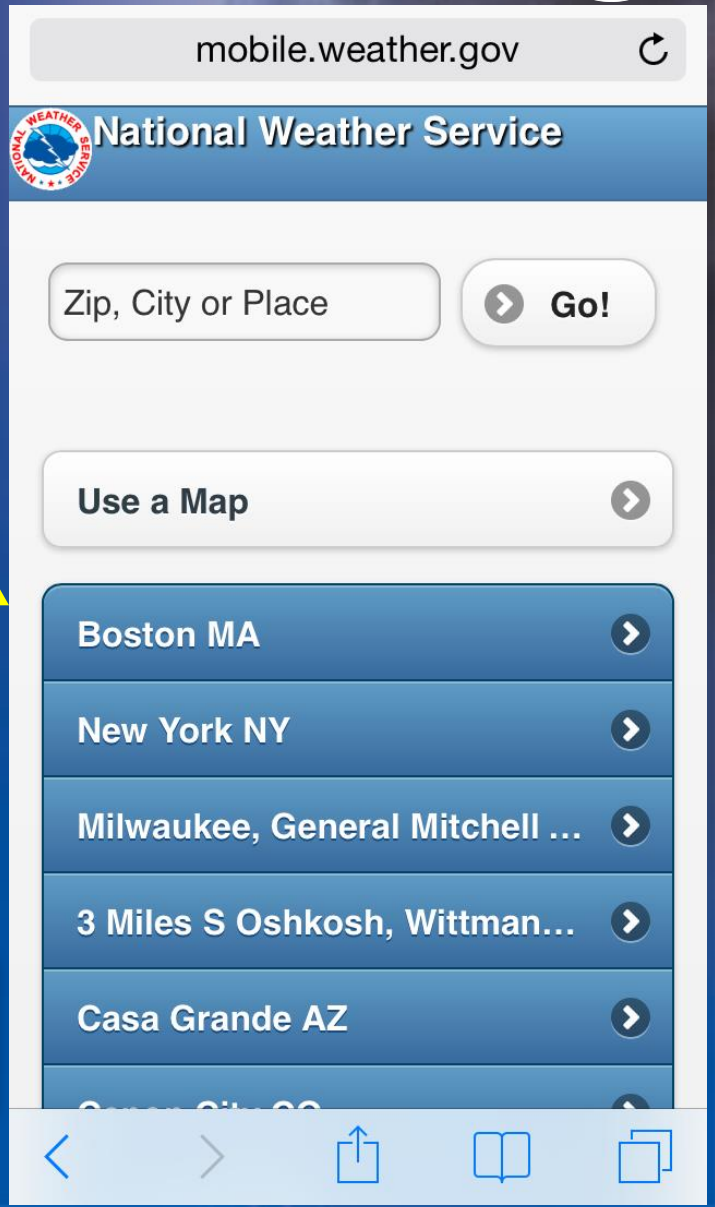
Mobile Web Services

NWS → Weather.gov → Aviation Sites → **Mobile** → WEA

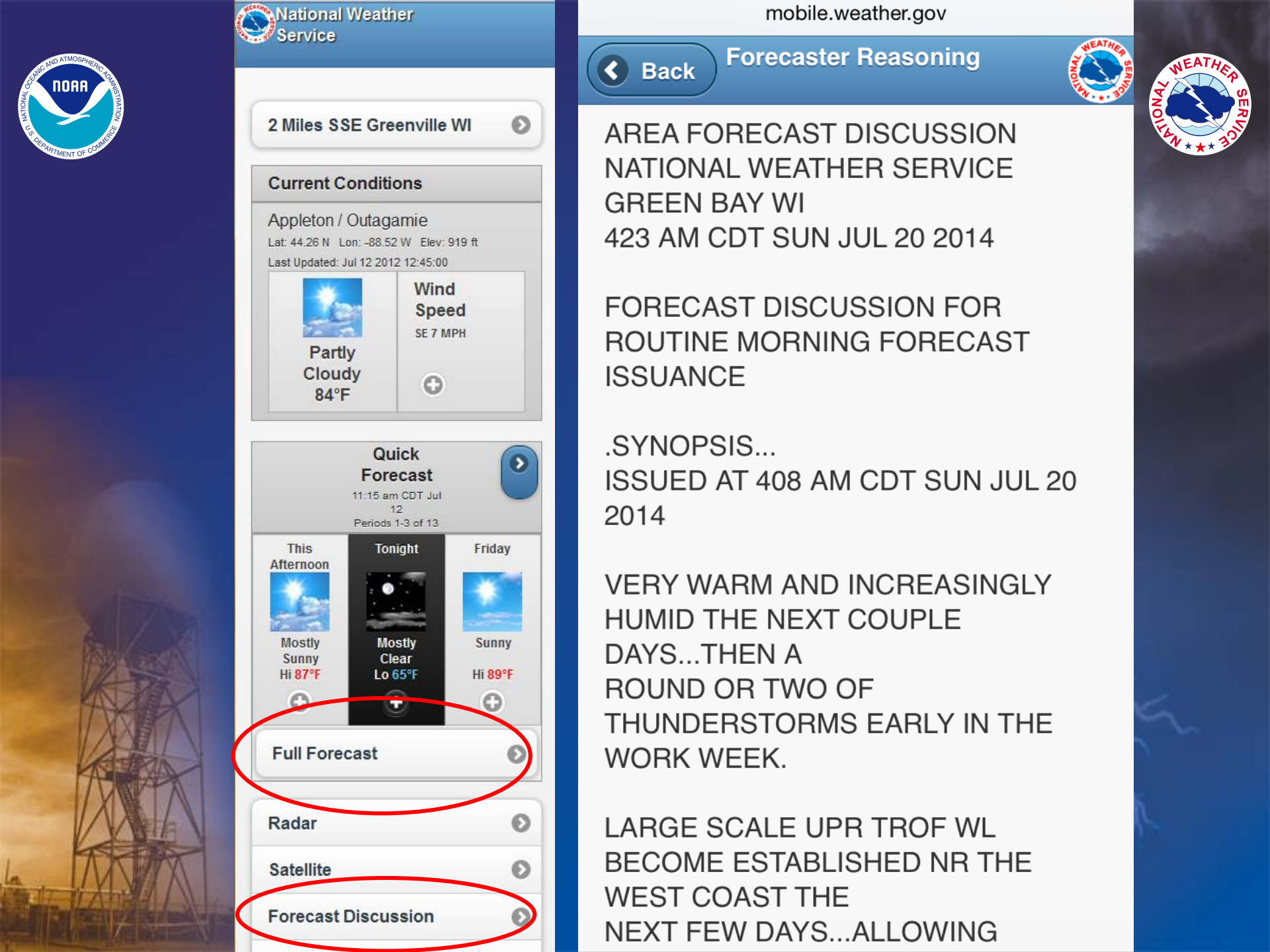
NWS Mobile Weather Website

Save Multiple Locations

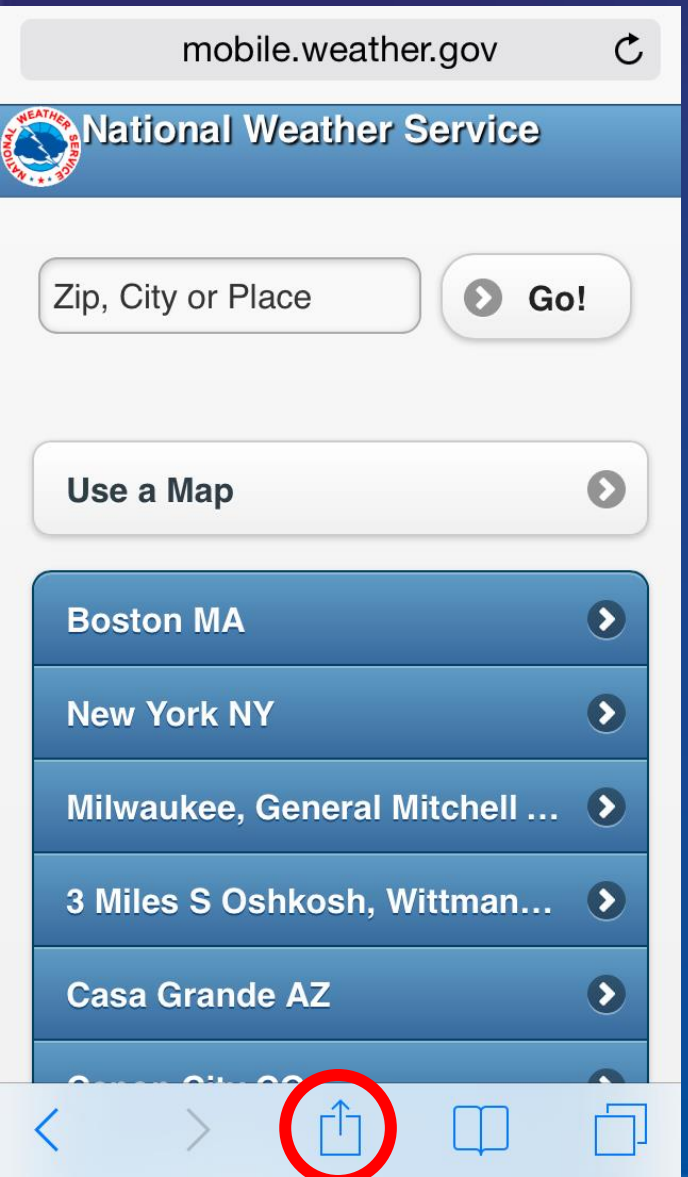
Clean Format

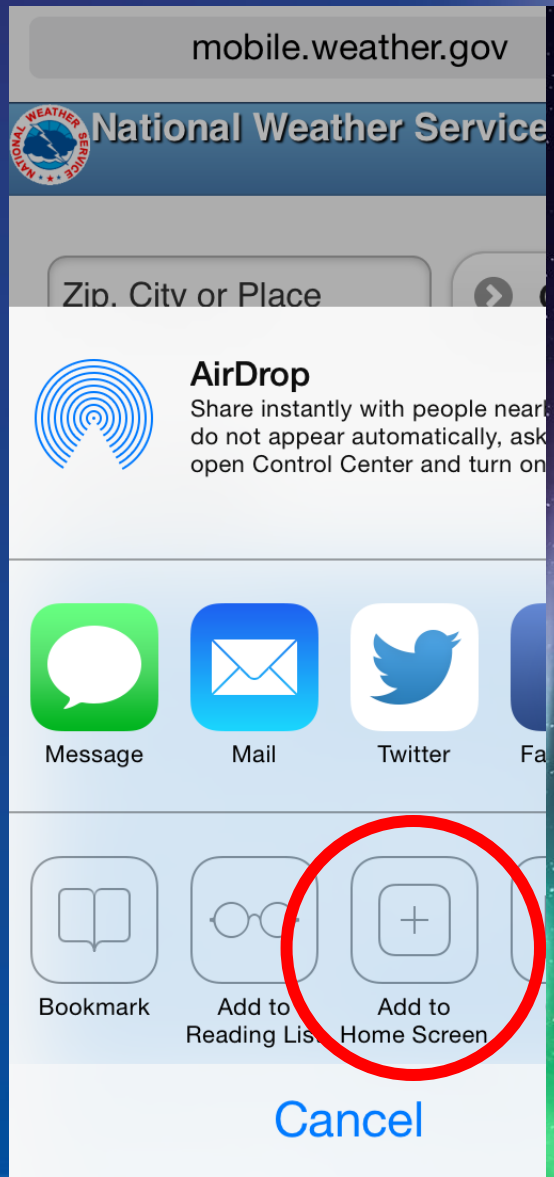


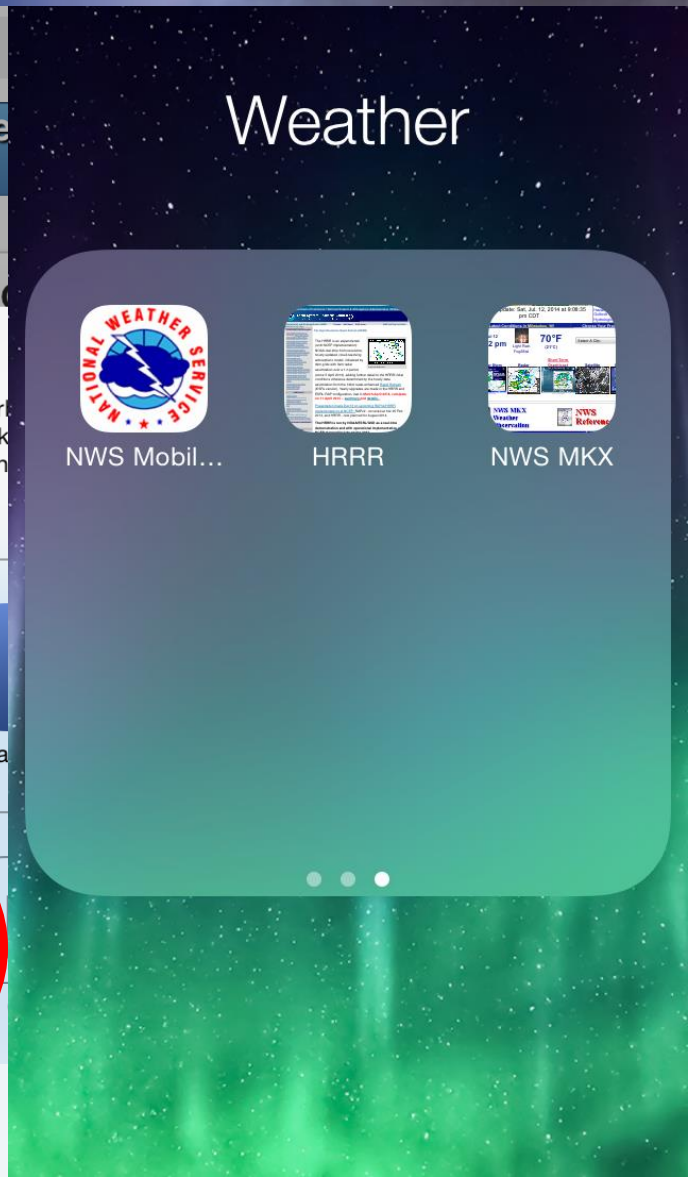
mobile.weather.gov

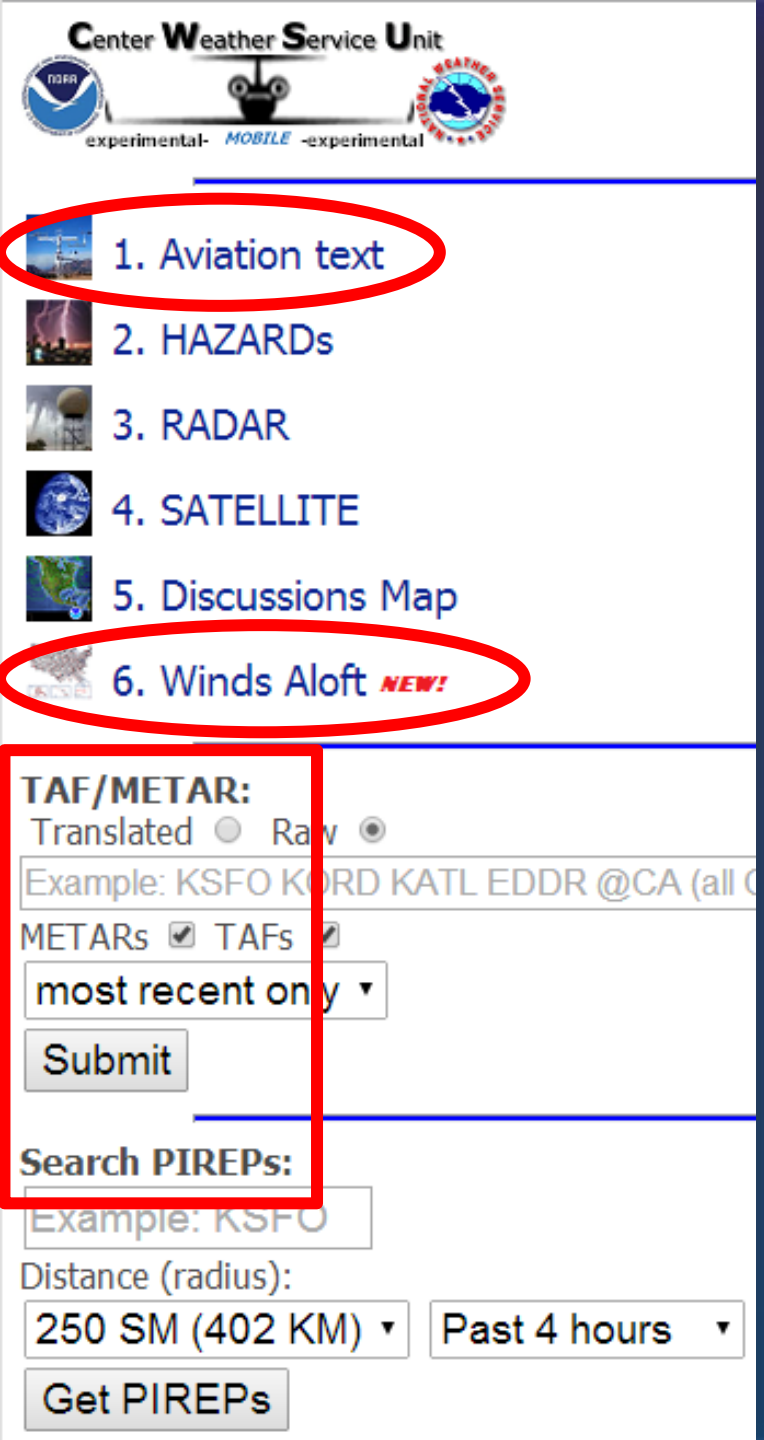

National Weather Service
2 Miles SSE Greenville WI
Current Conditions
Appleton / Outagamie
Lat: 44.26 N Lon: -88.52 W Elev: 919 ft
Last Updated: Jul 12 2012 12:45:00
Partly Cloudy 84°F
Wind Speed
SE 7 MPH
Quick Forecast
11:15 am CDT Jul 12
Periods 1-3 of 13
This Afternoon
Mostly Sunny Hi 87°F
Tonight
Mostly Clear Lo 65°F
Friday
Sunny Hi 89°F
Full Forecast
Radar
Satellite
Forecast Discussion
mobile.weather.gov
Back
Forecaster Reasoning
AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE
GREEN BAY WI
423 AM CDT SUN JUL 20 2014
FORECAST DISCUSSION FOR
ROUTINE MORNING FORECAST
ISSUANCE
.SYNOPSIS...
ISSUED AT 408 AM CDT SUN JUL 20
2014
VERY WARM AND INCREASINGLY
HUMID THE NEXT COUPLE
DAYS...THEN A
ROUND OR TWO OF
THUNDERSTORMS EARLY IN THE
WORK WEEK.
LARGE SCALE UPR TROF WL
BECOME ESTABLISHED NR THE
WEST COAST THE
NEXT FEW DAYS...ALLOWING

Is there an App for that?









CWSU Mobile Weather Website

Geared Toward Aviation Users

www.wrh.noaa.gov/zoa/MOBILE/ZOA2.htm

OR

http://go.usa.gov/jRhe

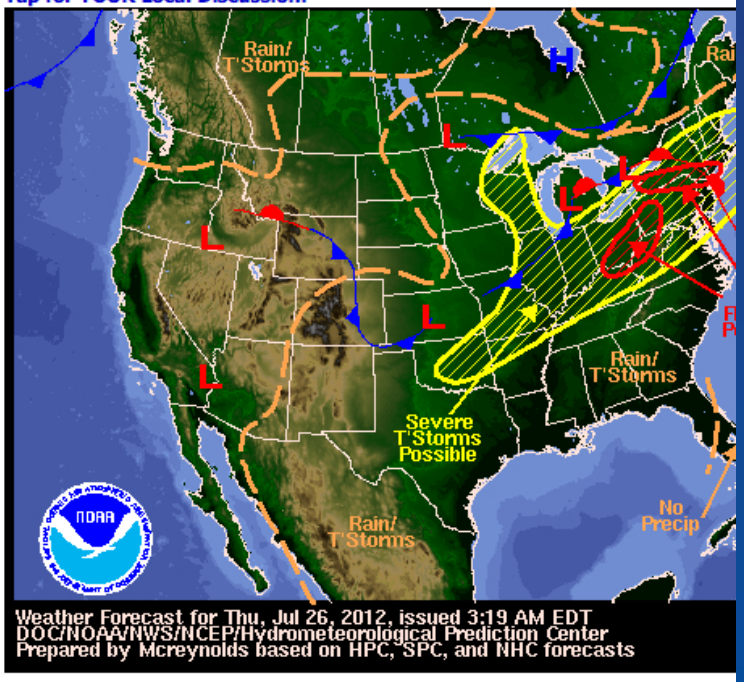
CWSU Mobile Weather Website

http://go.usa.gov/jRhe

Many Text Products

HOME > NWS Forecast Discussions/Map:

Tap for YOUR Local Discussion:



1. Back to top
5. RADAR main

AFD

Weather Forecast Map

NWS • Mobile

AREA FORECAST DISCUSSION...UPDATED
National Weather Service Twin Cities/chanhassen MN
1218 AM CDT THU JUL 26 2012

.UPDATE...

UPDATED FOR THE 06Z AVIATION DISCUSSION BELOW.

.DISCUSSION...

THE MAIN ISSUE IN THE SHORT TERM IS OBVIOUSLY THE CHANCES FOR SHRA/TSRA LATE THIS AFTERNOON INTO THIS EVENING AS THE SURFACE LOW SLIDES EAST AND THE FRONTAL BOUNDARY DROPS THROUGH THE AREA. LATEST MSAS ANALYSIS AND SURFACE OBS SHOW A WELL DEFINED WIND SHIFT CURRENTLY BISECTING THE FORECAST AREA FROM SOUTHWEST TO NORTHEAST... AND SOME CONVECTION HAS TRIED TO DEVELOP NEAR THIS OVER THE PAST SEVERAL HOURS... BUT HAS THUS FAR BEEN UNSUCCESSFUL. THE ACTUAL FRONTAL BOUNDARY IS STILL WELL TO THE WEST OVER THE DAKOTAS... WHERE THE DEWPOINT GRADIENT CAN BE FOUND. THIS WILL EVENTUALLY BE PUSHED EAST THIS EVENING AS THE MAIN UPPER SHORTWAVE CURRENTLY SEEN NEAR THE SASKATCHEWAN/MANITOBA BORDER PUSHES SOUTHEAST. AT THIS POINT... IT/S QUESTIONABLE AS TO WHETHER THE FORCING ASSOCIATED WITH THE ACTUAL UPPER WAVE AND COLD FRONTAL BOUNDARY WILL MANAGE TO GET ANY CONVECTION GOING. CONTINUED CHANCE POPS

http://mobile.wrh.n...p?pil=afd&sid=arx/ OF THE AFTERNOON OVER

CWSU Mobile Weather Website

http://go.usa.gov/jRhe

Many Text Products

NWS mobile aviation
12HR Winds Aloft CONUS

FBUS33 KWNO 232000
FD3US3
DATA BASED ON 231800Z
VALID 240600Z FOR USE 0300-1200Z. TEMPS NEG ABV 24000

FT	3000	6000	9000	12000	18000	24000	30000	34000	39000
ABI		0808+21	0621+16	0519+10	0529-06	0528-17	061931	061642	032852
ABQ			1714+18	1713+09	1117-05	0906-15	351030	322141	331953
ABR	1622	1511+16	2713+12	2919+07	3138-10	3151-21	316137	317546	327655
ACK	2616	2512+15	2519+09	2520+05	2429-08	2335-17	242733	253143	263554
ACY	2612	2812+15	2614+10	2618+04	2622-08	2525-17	243533	254543	264054
AGC	0117	2916+11	2722+09	2723+02	2817-09	2631-20	245035	246643	257052
ALB	0118	2915+11	2621+08	2526+03	2532-09	2440-20	245334	246343	256453
ALS				2115+11	1213-05	9900-17	291431	292441	313253
AMA		1814	9900+16	9900+08	0622-06	0321-17	012730	012640	013852
AST	2438	2535+04	2636-01	2635-07	2733-21	2635-33	274438	274438	254441
ATL	3209	2713+16	2518+10	2512+05	2423-05	2424-16	232932	223642	223754
AVP	3619	2814+13	2719+08	2625+04	2524-10	2343-19	245334	246143	256553
AXN	1608	9900+10	3609+09	3316+05	3334-10	3347-22	326138	326348	327954
BAM			2708+14	2125+09	2249-08	2352-20	236835	238144	239153
BCE				1817+13	1810-07	2016-17	233432	234742	235254
BDL	2913	2615+14	2520+09	2425+03	2534-08	2435-19	254233	264542	255154
BFF		1844	2131+21	2324+13	2813-07	2915-20	294034	295143	296853
BGR	9900	2428+13	2437+08	2440+02	2531-09	2442-19	235034	235343	245555
BHM	3610	9900+16	2608+10	2607+05	2408-06	2413-17	232432	233142	223354
BIH		9900	9900+19	1707+12	2131-07	2235-19	225235	226643	227753
BIL		2009	2216+20	2220+12	2438-09	2553-21	246937	257545	257652
BLH	2406	1808+27	1713+19	1612+11	9900-06	2011-15	212330	222941	213753
BML	3620	3011+10	2523+07	2432+02	2534-10	2443-20	236034	236444	236954
BNA	3305	3112+15	3016+09	2711+04	2917-07	3123-18	312333	272243	262953
BOI		3120+17	2515+11	2124+04	2258-09	2268-22	227838	238746	239952
BOS	2911	2512+14	2319+09	2425+03	2427-08	2431-18	244234	244643	254454
BRL	0512	0214+07	3421+08	3422+05	3534-09	3437-21	344538	335845	335150

Wireless Emergency Alerts (WEAs)

- Warnings automatically sent to your mobile device when you may be in harm's way
- Types of alerts:
  - *Extreme weather warnings*
    - •Tornado
    - •Flash Flood
    - •Hurricane
    - •Dust Storm
    - •Extreme Wind
    - •Tsunami
  - *Local emergencies requiring immediate action*
  - *AMBER Alerts*
  - *Presidential Alerts during a national emergency*

Wireless Emergency Alerts

FEMA

CTIA The Wireless Association®

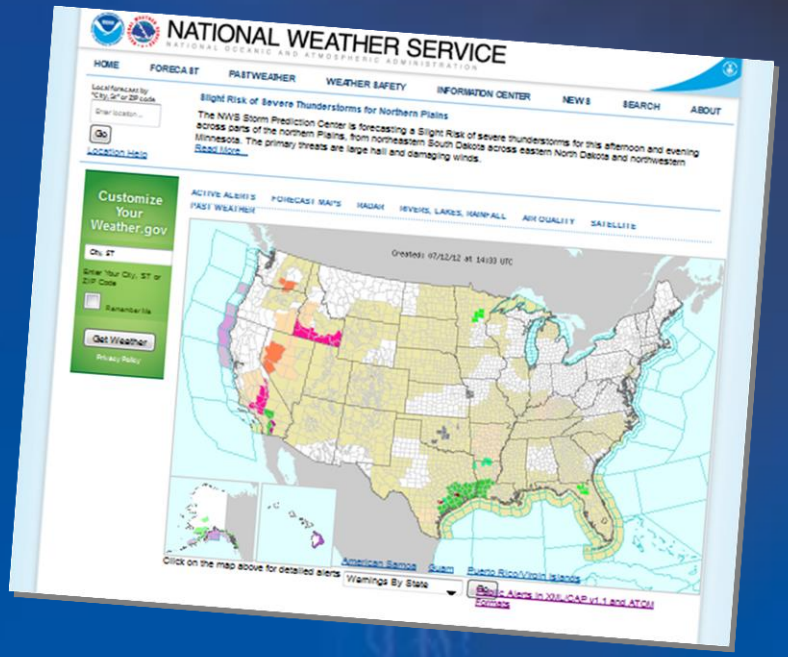
Receiving WEAs

- Sent from area cell towers
- Special tone and vibration goes off twice
- Can opt out of AMBER and Emergency Alerts

Remember:

- Weather.gov
- Aviationweather.gov
- Mobile.weather.gov

- and to pick up a website handout!



Any Questions?

- Marcia.Cronce@noaa.gov