



About me

- Chased in: IL, MO, IA, MN, ND, SD, NE, KS, OK, TX, CO, NM
- Chasing for about four years
- Seen a few tornadoes
- Likes long drives
- This country is beautiful



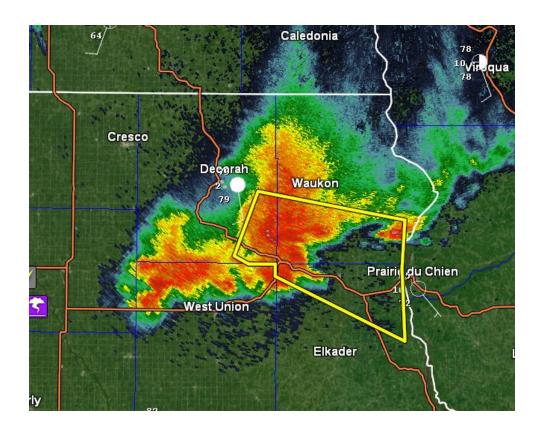
Before Chase

- Reliable Car (good gas milage)
- Cell phone (https://fcc.maps.arcgis.com/apps/webappviewer/index.html?id=6c1b2e7 3d9d749cdb7bc88a0d1bdd25b)
- Laptop
 - Radar
 - GR, RadarScope, RadarOmega
- People
 - More the merrier
- \$\$\$
- Attend a Spotter Safety Class by the NWS (Must)

Radar







New to Storm Chasing, Start Here!

- Begin to look at the Storm
 Prediction Center Outlooks
 - https://www.spc.noaa.gov/produc ts/outlook/day1otlk.html
- Marginal = lower risk & High = high risk (very rare)
- READ DISCUSSION

Understanding Severe Thunderstorm Risk Categories

	THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
_	No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
	Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense

^{*} NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.

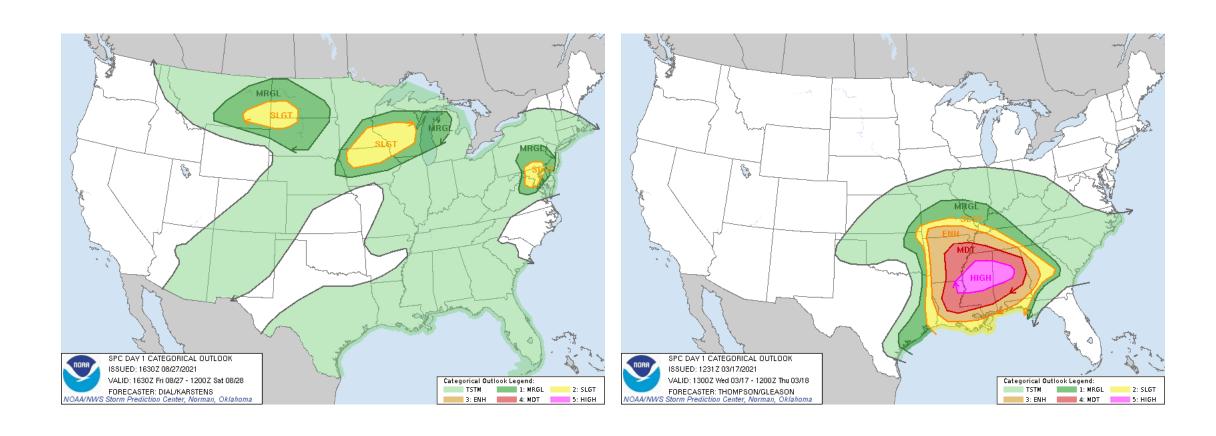


National Weather Service

www.spc.noaa.gov



Risk Examples



Begin to look at models

- Choose between:
 - https://weather.cod.edu/forecast/
 - https://www.pivotalweather.com/model.php
- GFS/NAM/EURO
 - Not as high of resolution but still provide crucial information
- CAMS (Convection Allowing Models)
 - HRRR, NAM3K, & other experimental models
 - Higher Resolution

Now what?

- You've looked at models and noticed something you like
 - I will go over in detail in what to look for in models in my next presentation
- Choose your target location
 - May not make it to target location in one day
 - Likely will stay in hotel night before



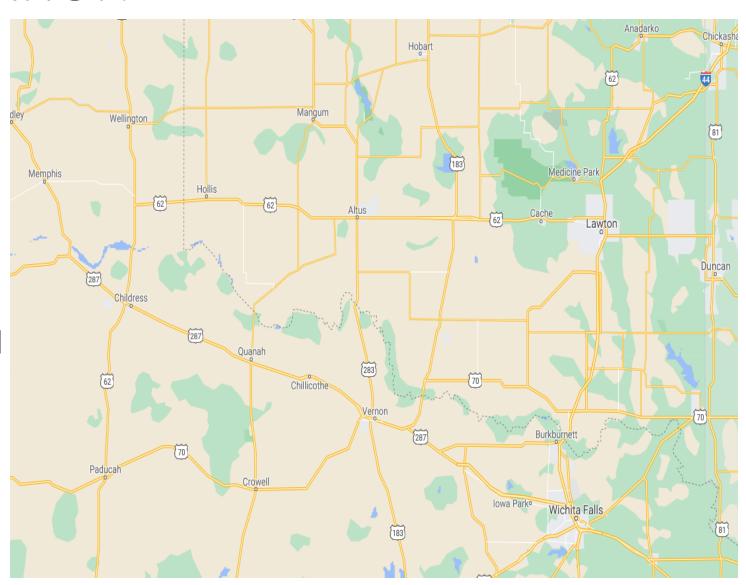
Day of Chase

- Wake up and begin to check models
 - SPC outlooks
 - Mesoscale Analysis
 - Satellite Imagery
 - Surface Observations
 - Local Radiosondes
 - Local NWS Discussion
 - Check Models
 - Ingredient Forecasting



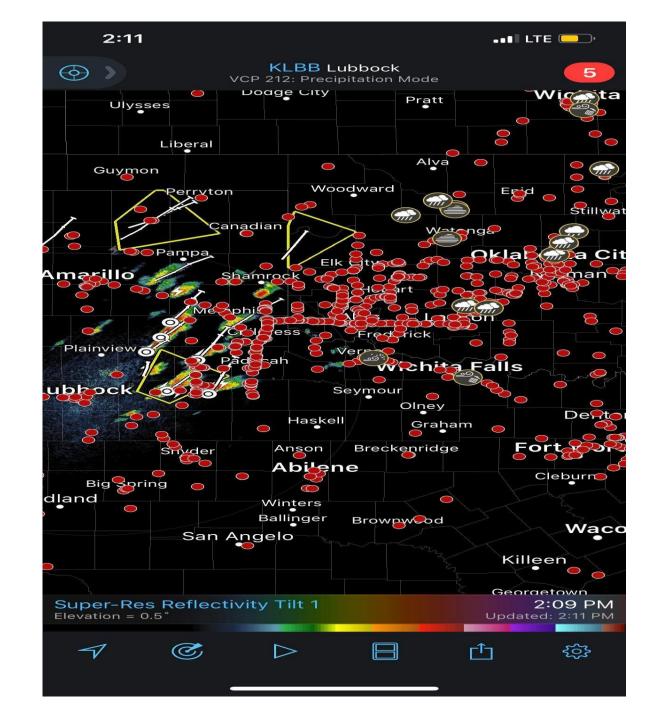
KNOW YOUR LOCATION

- Once you have chosen your location, STUDY IT
- Some roads only have one bridge crossing to get E/W
 - Crucial information when trying to chase storm
- Check the cell phone data map to see if your carrier will be good/bad
- Check local Native American information if up north
 - COVID



Chaser Convergence

- High Risk Day = mega chasers
- If driving, watch only the road
 - Multiple rear-ends in the image
- Be courteous
 - Slow down
 - Don't pass in no pass zones
- Some chasers will not chase high risk days due to traffic



Know your storm (HP, LP, MCS)



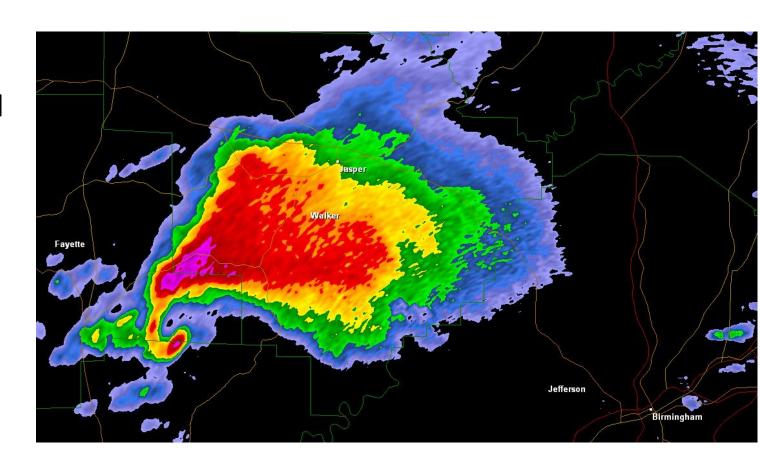
https://www.silverliningtours.com/may-16th-sudan-texas-

https://twitter.com/markokorosecnet/status/116209176273693

https://weatherpix.photoshelter.com/image/I0000rqvp8.aP9hU

You found your storm, congrats!!

- You have found a mothership supercell!
- You might be wondering why am I not seeing anything?
- SE side of storm
 - Shields rain
 - Allows to see wallcloud/tornado
- MUST know storm direction
- HAVE AN ESCAPE ROUTE
- If you do not know storm direction...



Serious Injury or Death





https://weather.com/storms/tornado/news/tornado-hunt-team-takes-direct-hit-tornado-20130531 https://www.pinterest.com/pin/452471093821260118/

Submit Storm Reports

- https://www.youtube.com/watch?v=oEYQ-9zNIsU
- Twitter
 - Location and time of report, especially road number
- Spotter Network
 - Relays information directly to NWS personell
 - Radarscope, RadarOmega
- Hail and rotating walls, funnels, tornadoes are easiest to report
- Report damage
- Last resort 911

Advice

- Find a mentor to teach you
 - Most chasers (myself included) love to help other chasers
- Youtube!
 - https://www.youtube.com/watch?v=bq0-QXXtOro&list=PLEPbXzUhtcEo5M2pRDDOkODOjfvGqXHP4
 - Plenty of advice from seasoned chasers!
- Do not be afraid to jump in
- Follow everyone on Twitter!
- If you are successful, you just might capture some great stuff...

















