

Six Tornadoes on May 24, 2017

Andy Hatzos
NWS Wilmington Ohio

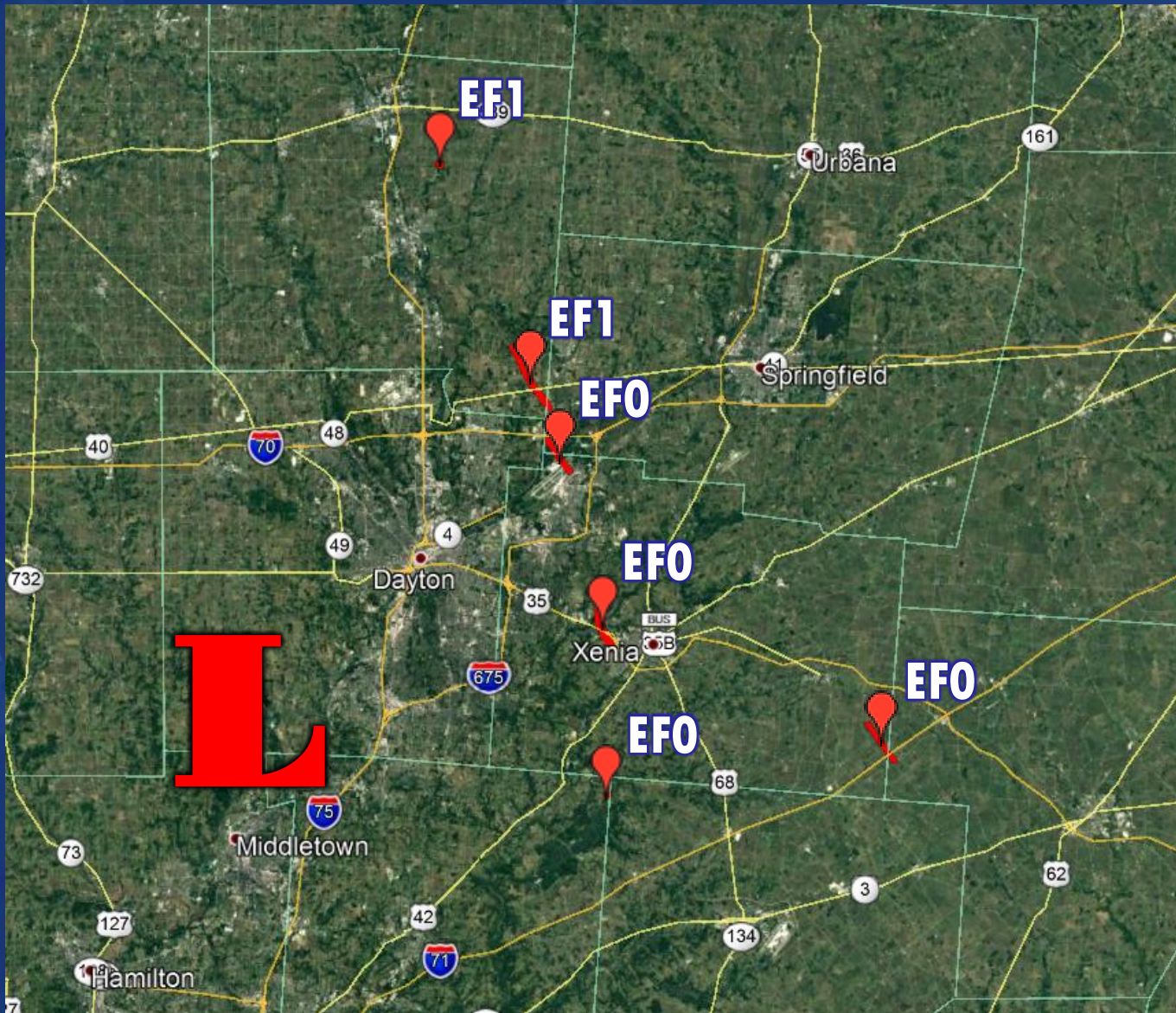
2018 Great Lakes Operational Meteorology Workshop

Never Trust a Surface Low in May!!!

Andy Hatzos
NWS Wilmington Ohio

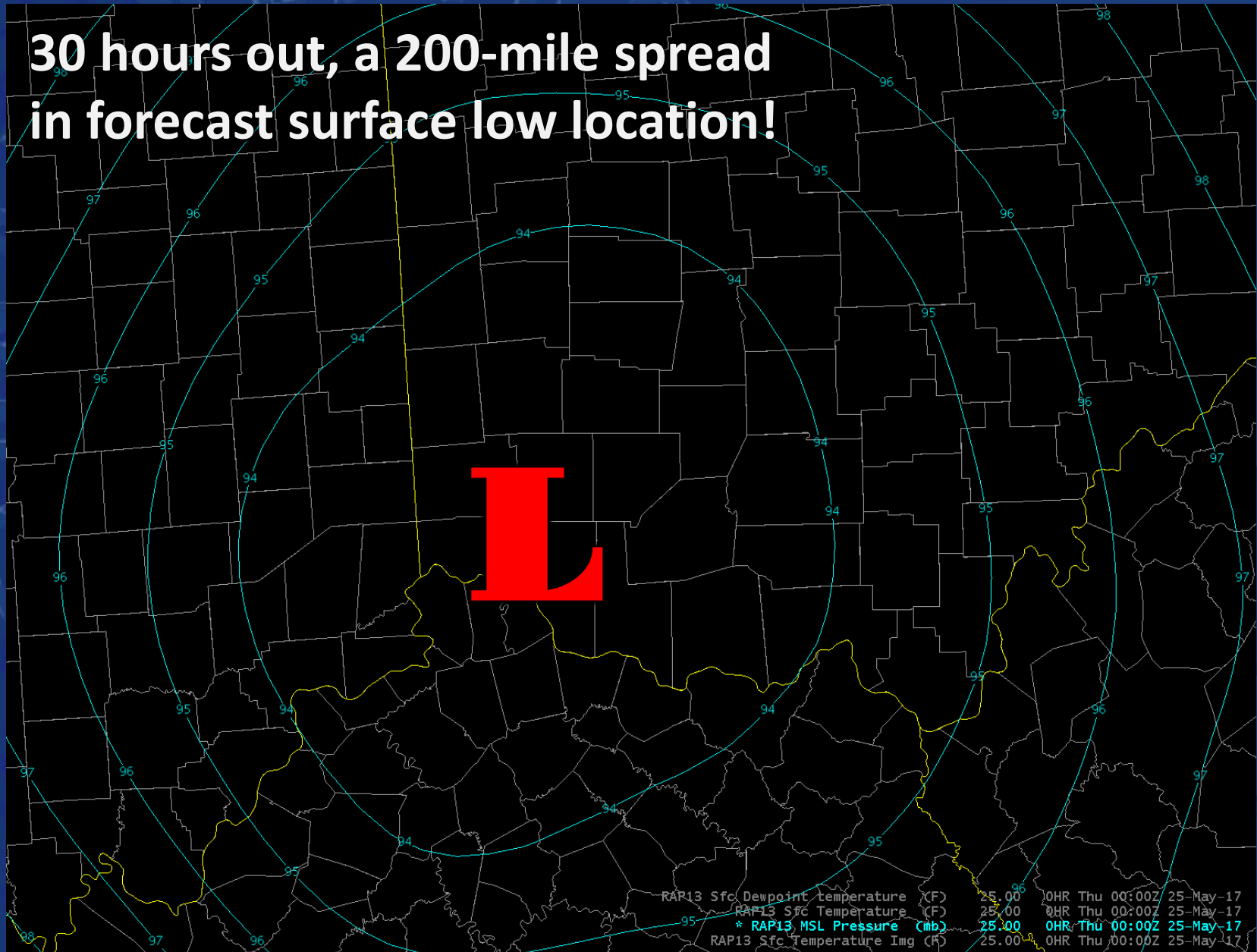
2018 Great Lakes Operational Meteorology Workshop

What happened?

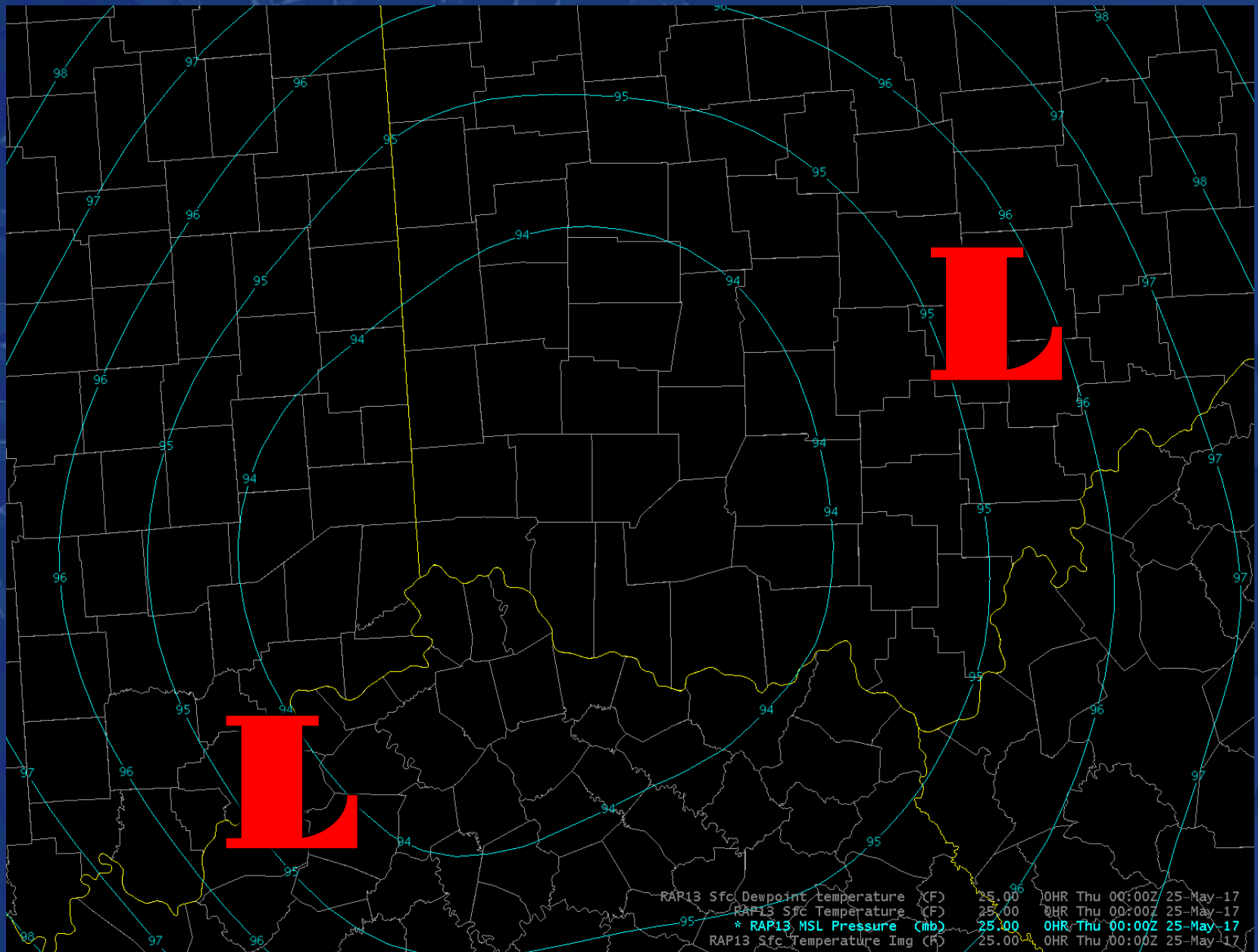


A Conditional Threat?

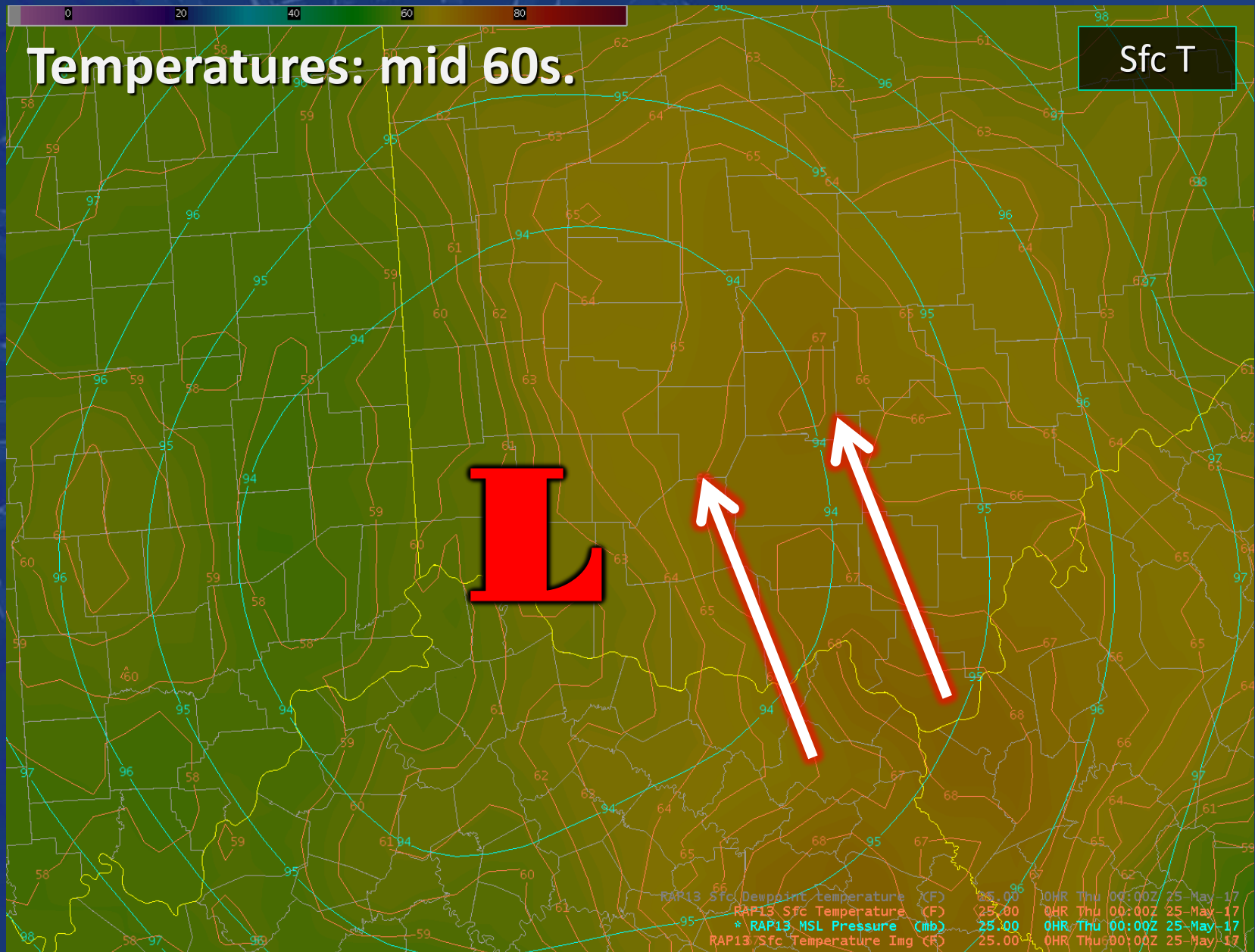
30 hours out, a 200-mile spread
in forecast surface low location!



A Conditional Threat?



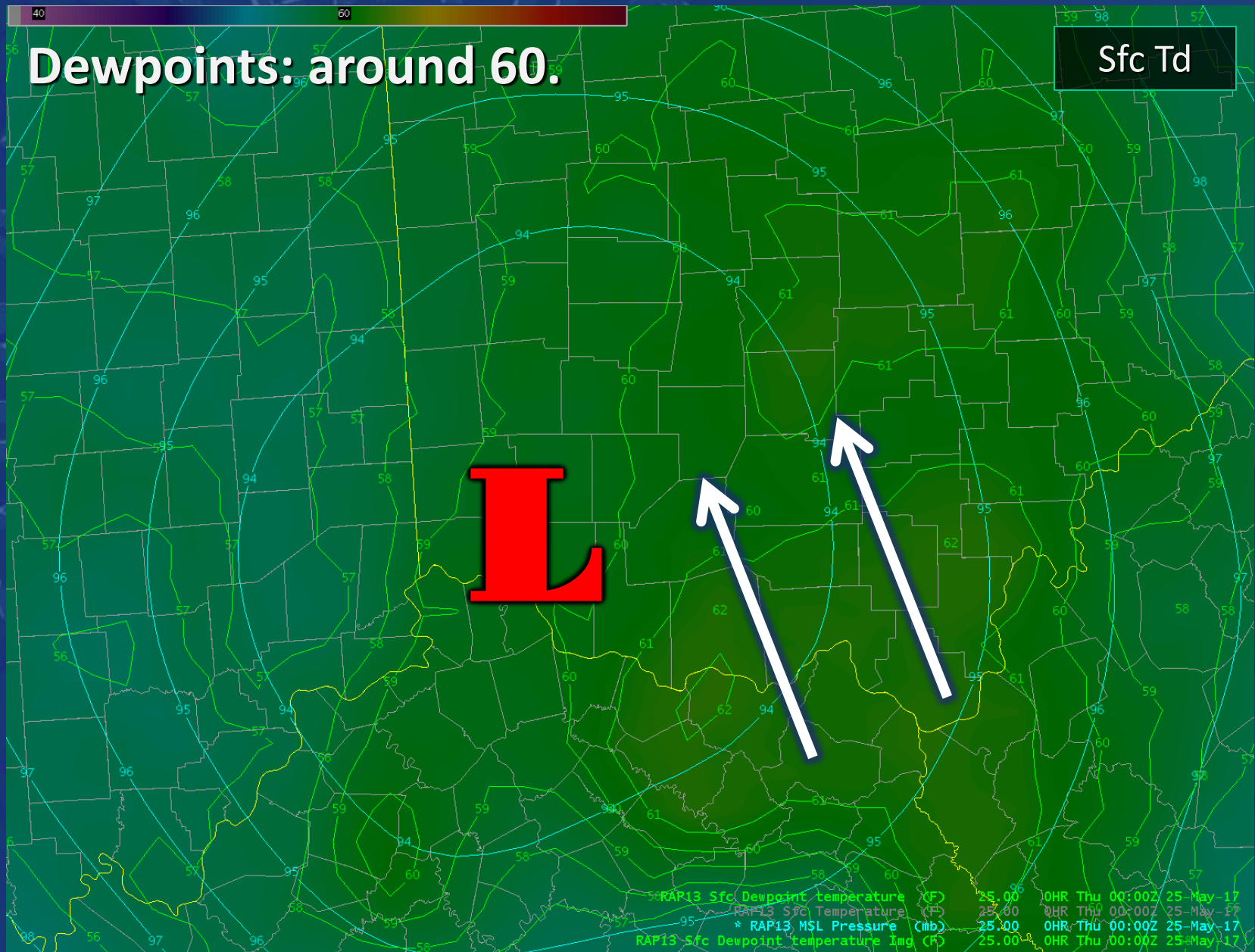
A Conditional Threat?



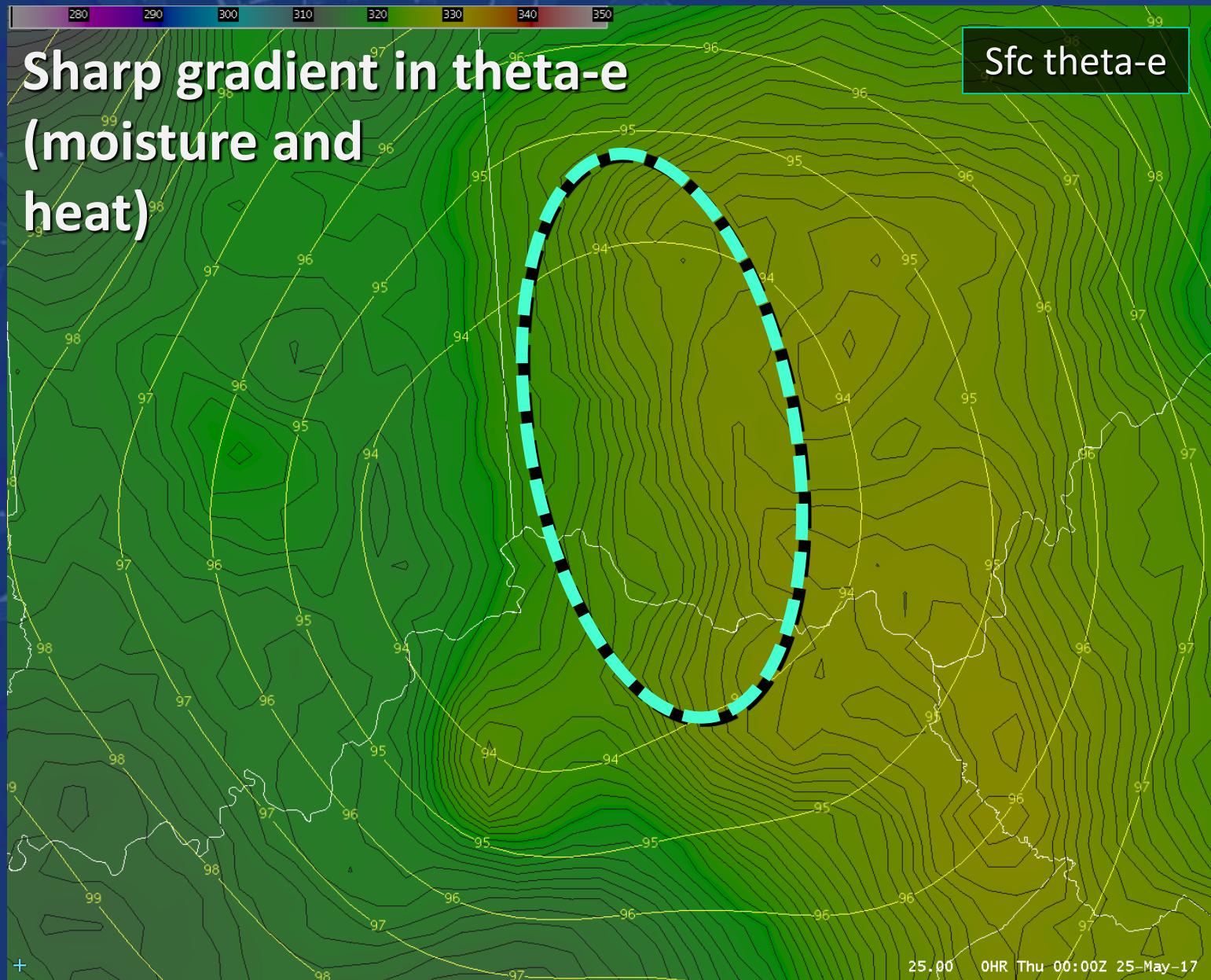
A Conditional Threat?

Dewpoints: around 60.

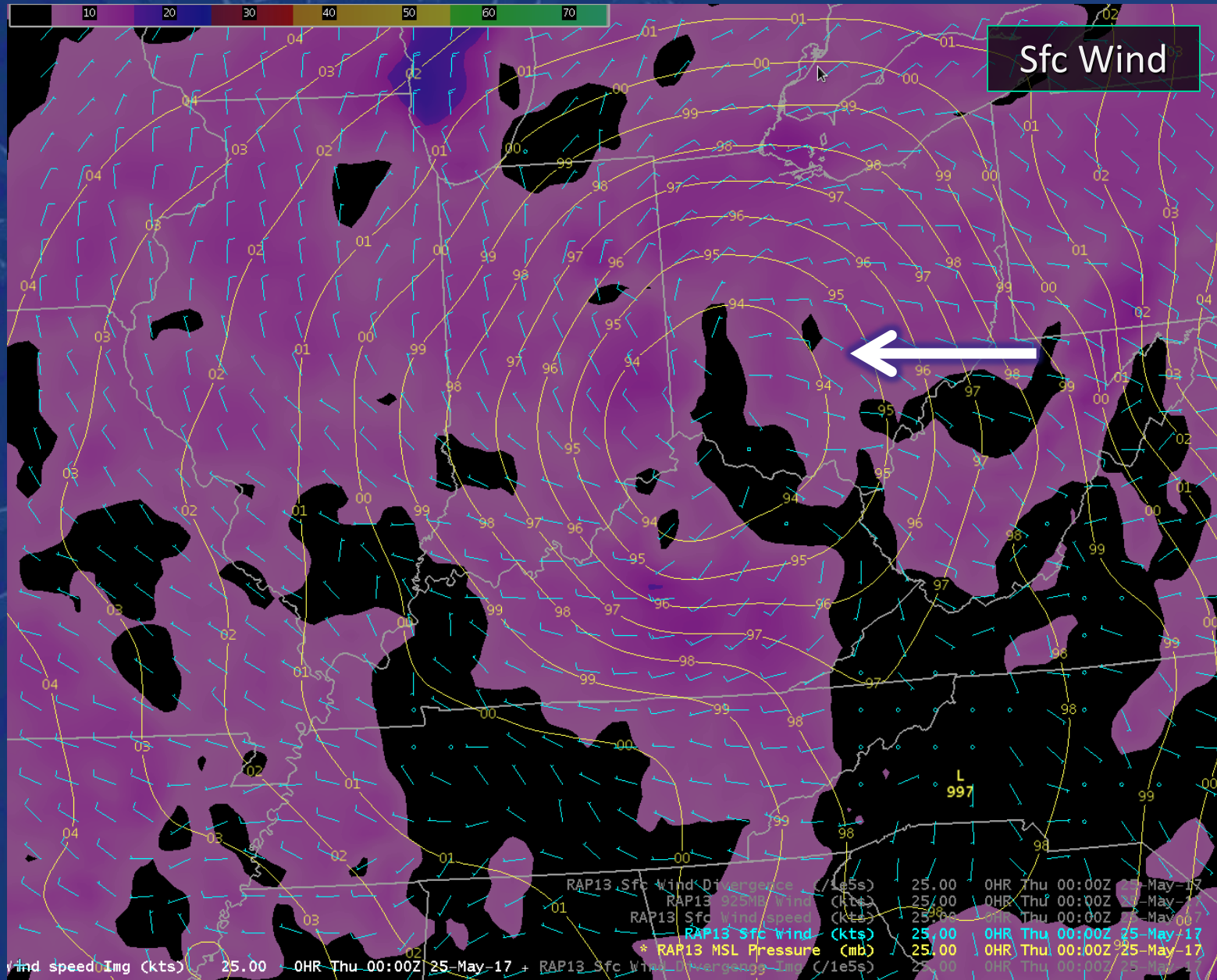
Sfc Td



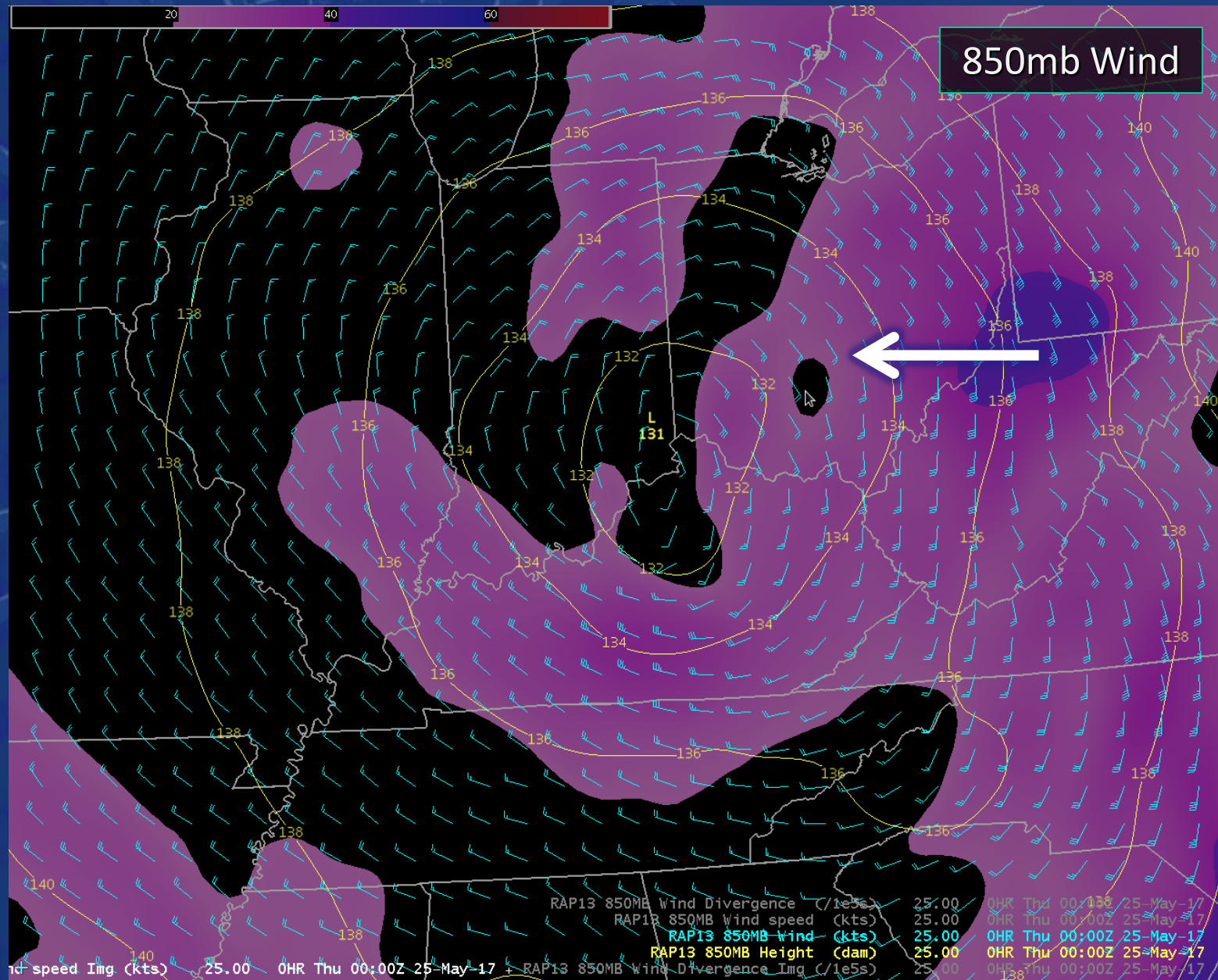
A Conditional Threat?



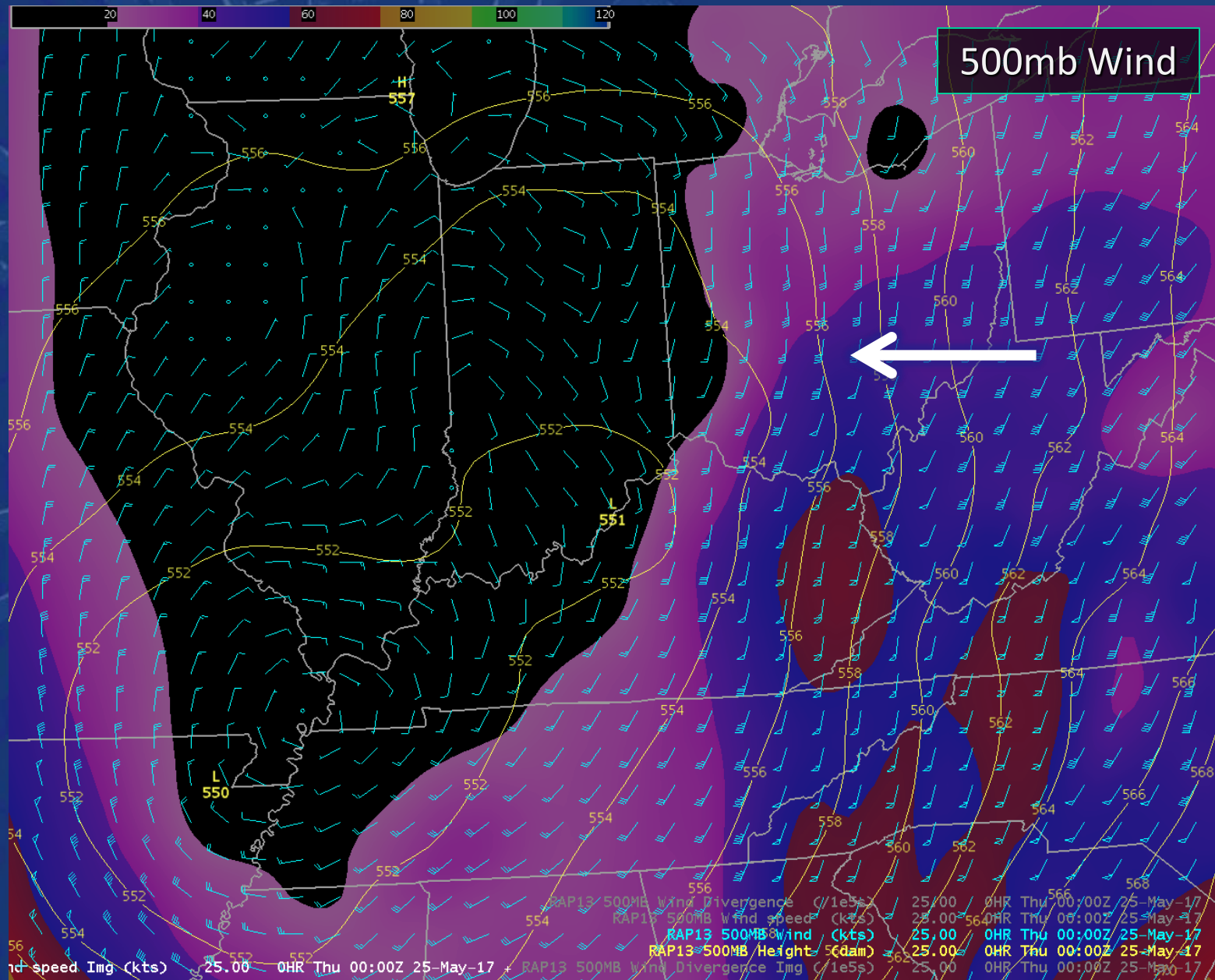
A Conditional Threat?



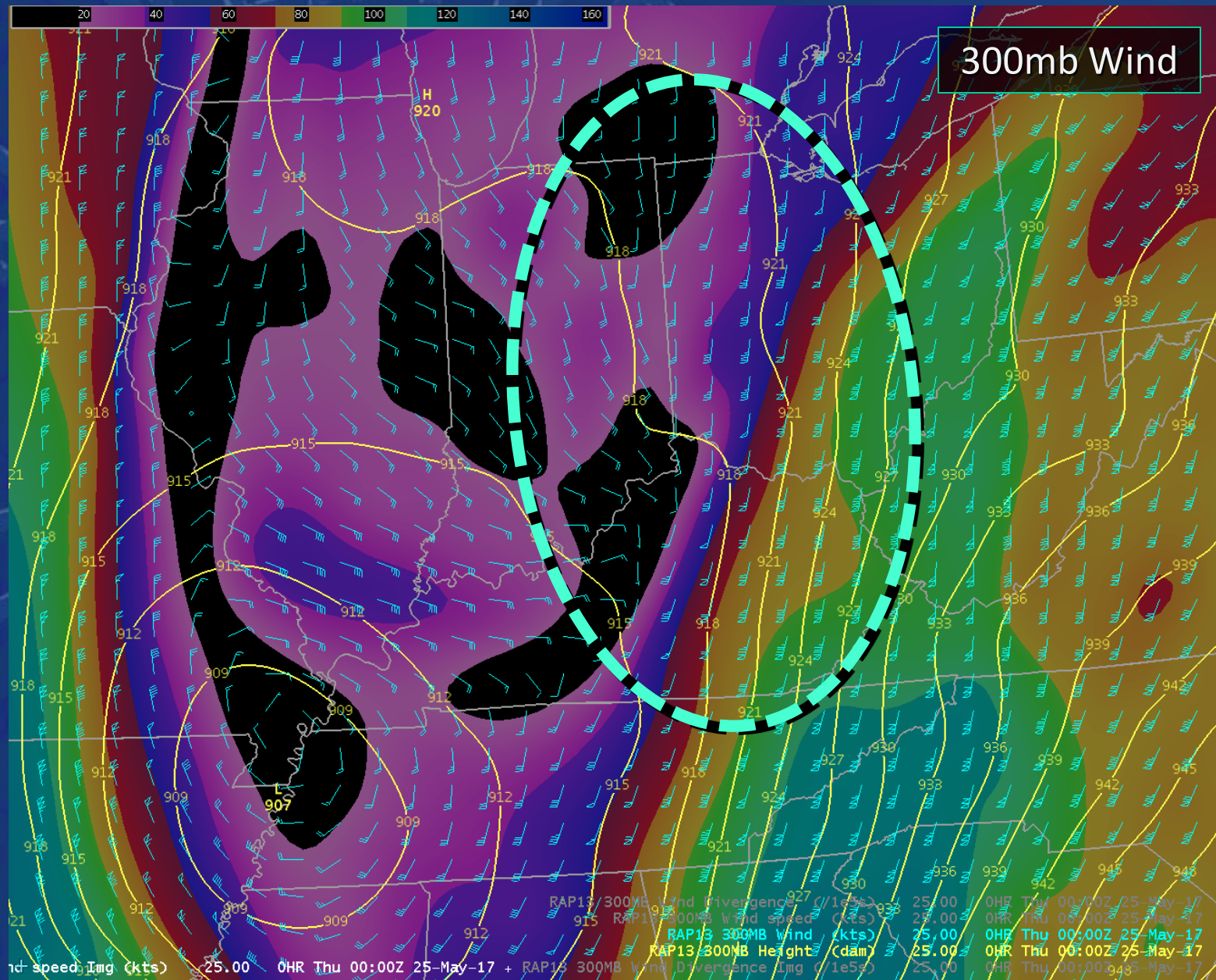
A Conditional Threat?



A Conditional Threat?



A Conditional Threat?



As Confidence Increases...

May 24, 2017

9:53 AM

Partner Email: A few storms may become severe with the main threat being damaging winds and isolated tornadoes.

May 24, 2017

3:38 PM

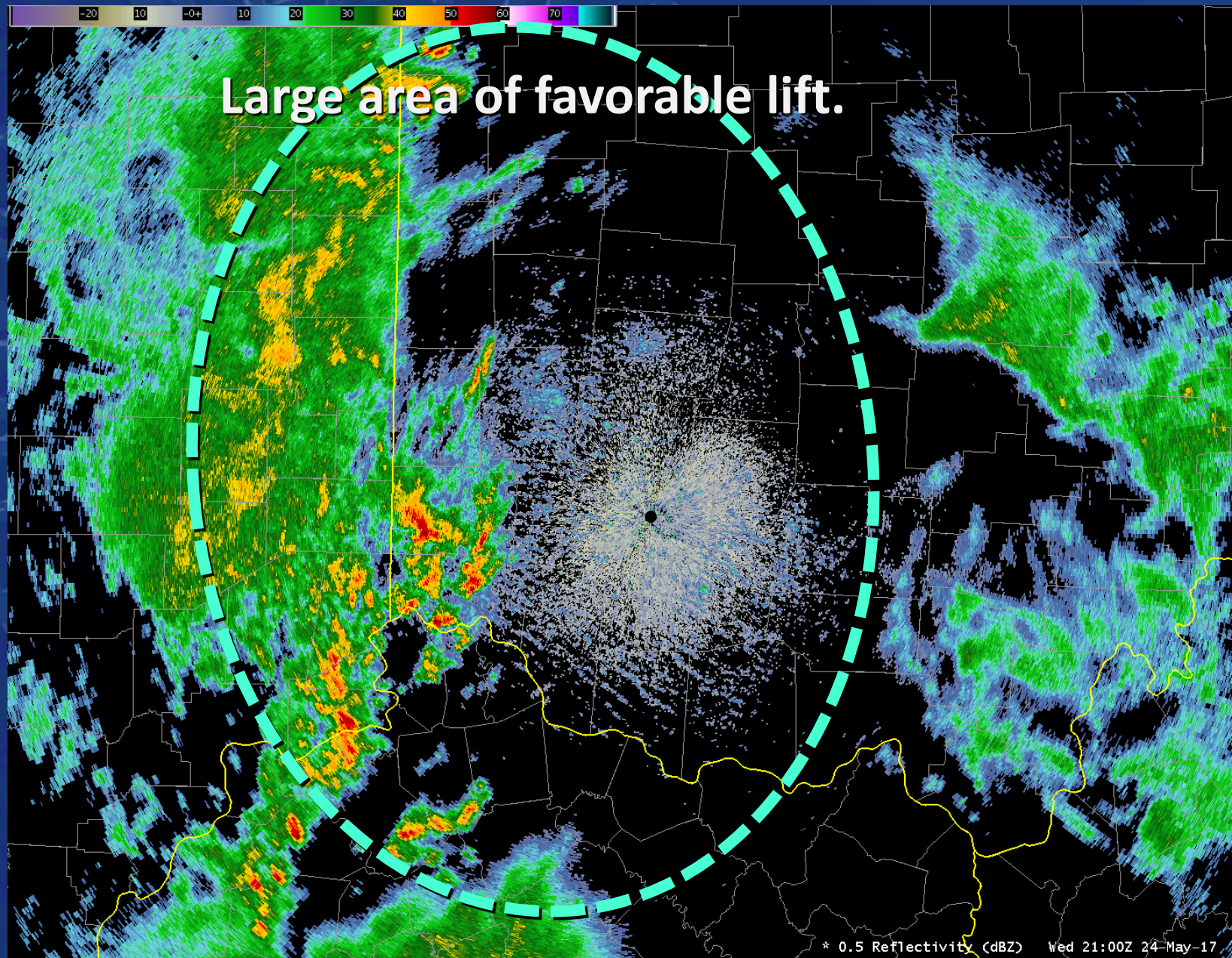
HWO: With low LCLs cannot rule out some tornado potential through the early evening hours.

May 24, 2017

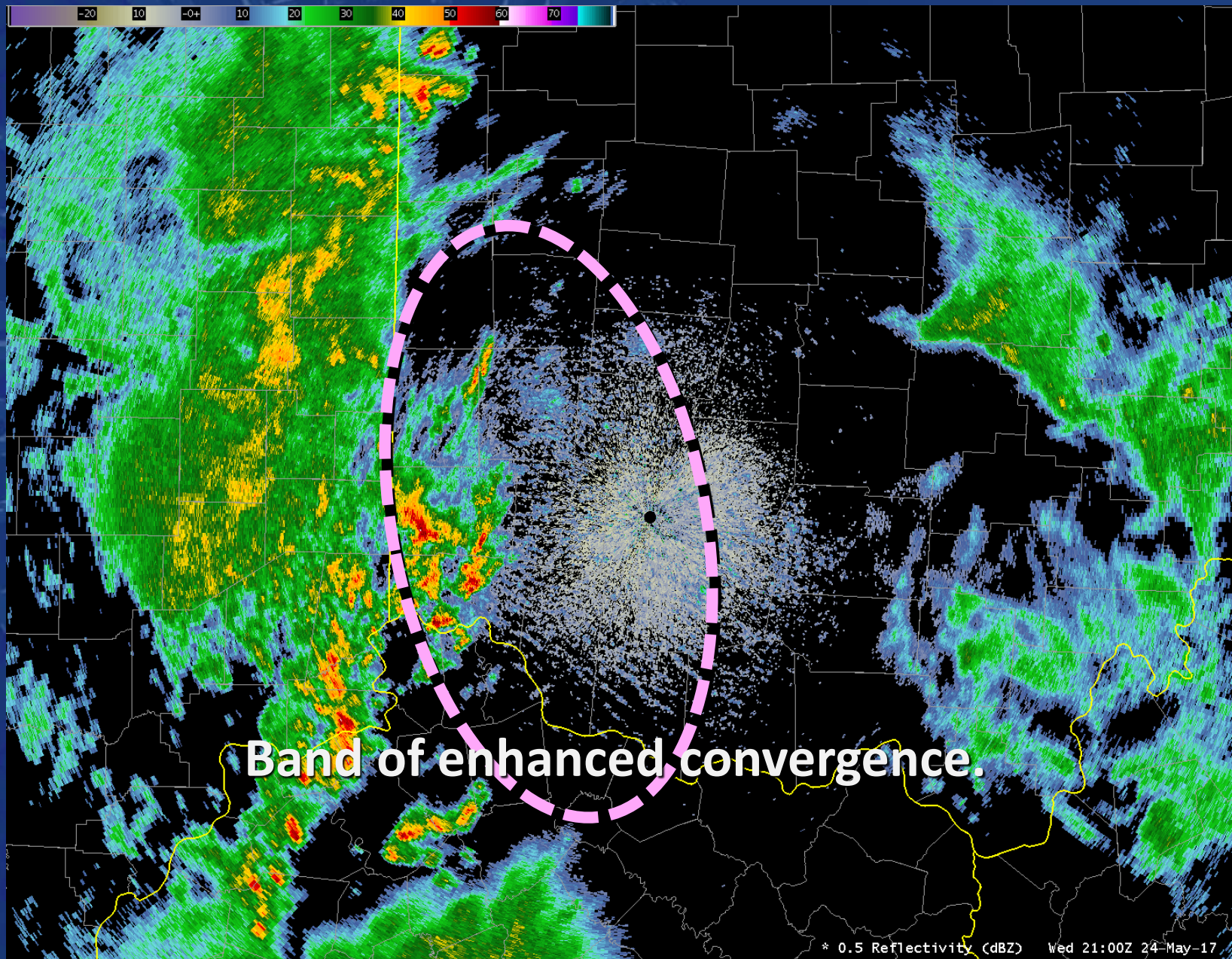
6:30 PM

Hi guys!

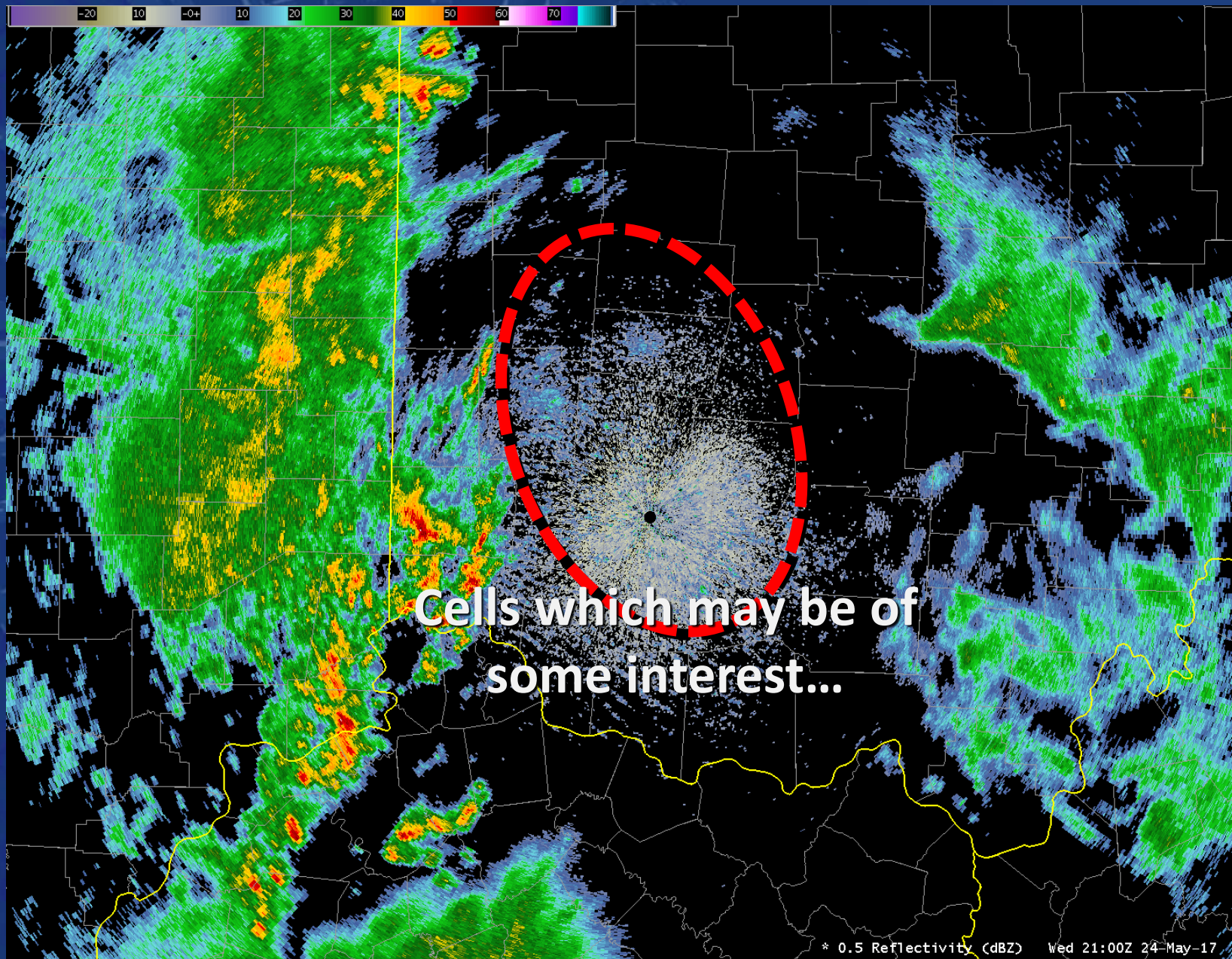
Radar Loop Overview



Radar Loop Overview



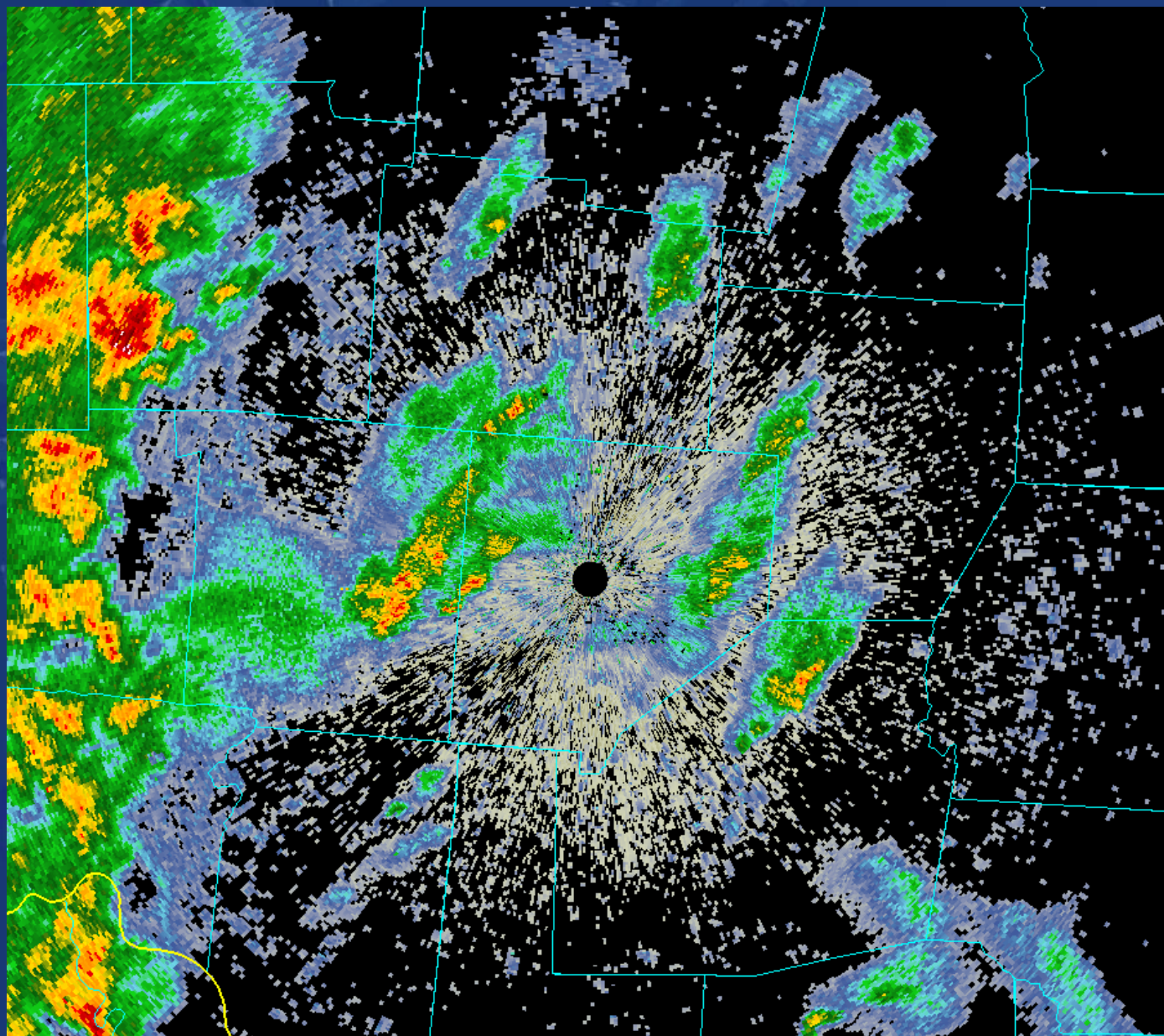
Radar Loop Overview



Sounding!

May 24, 2017

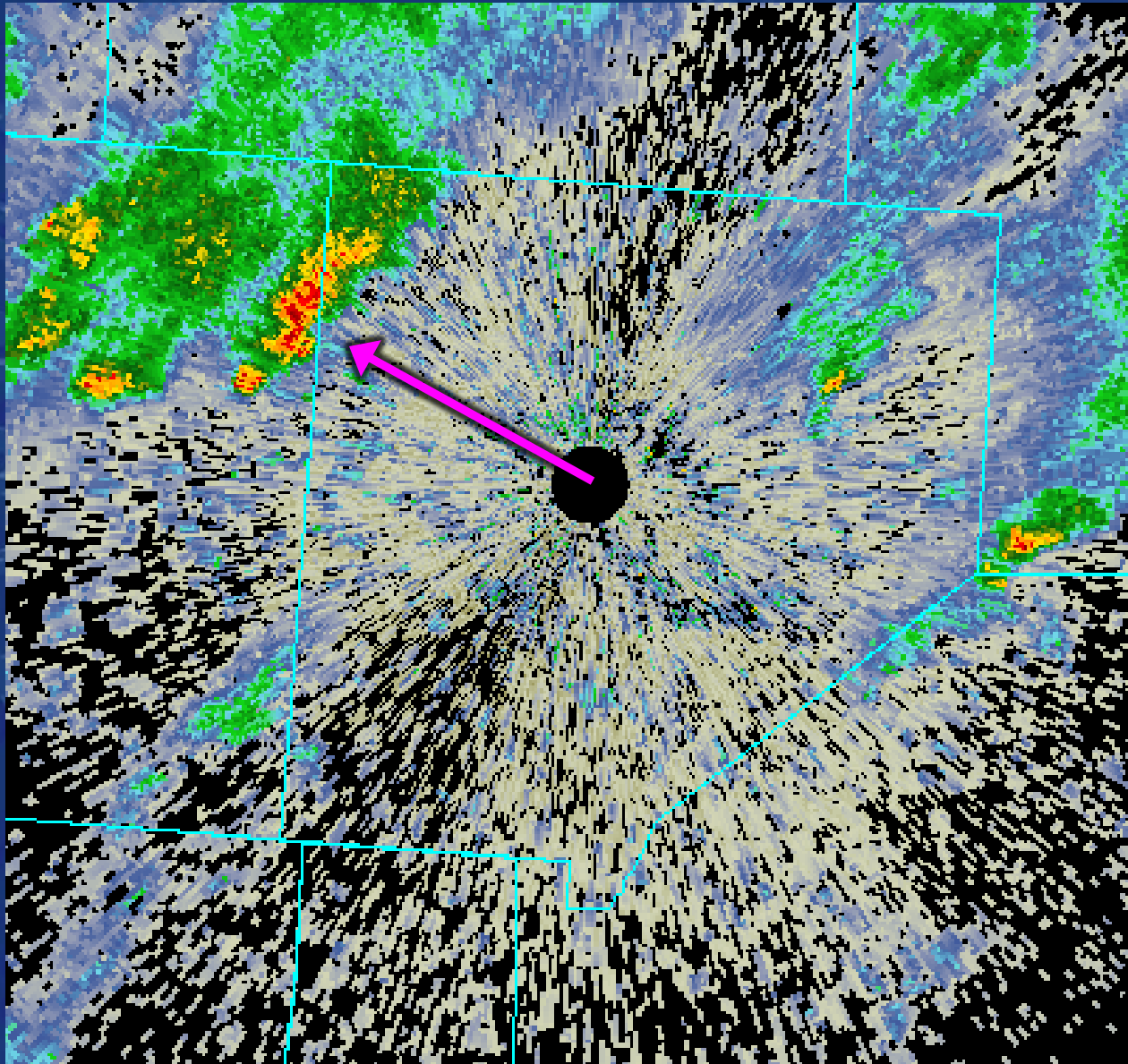
7:11 PM



A Look Outside...

May 24, 2017

7:27 PM



A Look Outside...

May 24, 2017

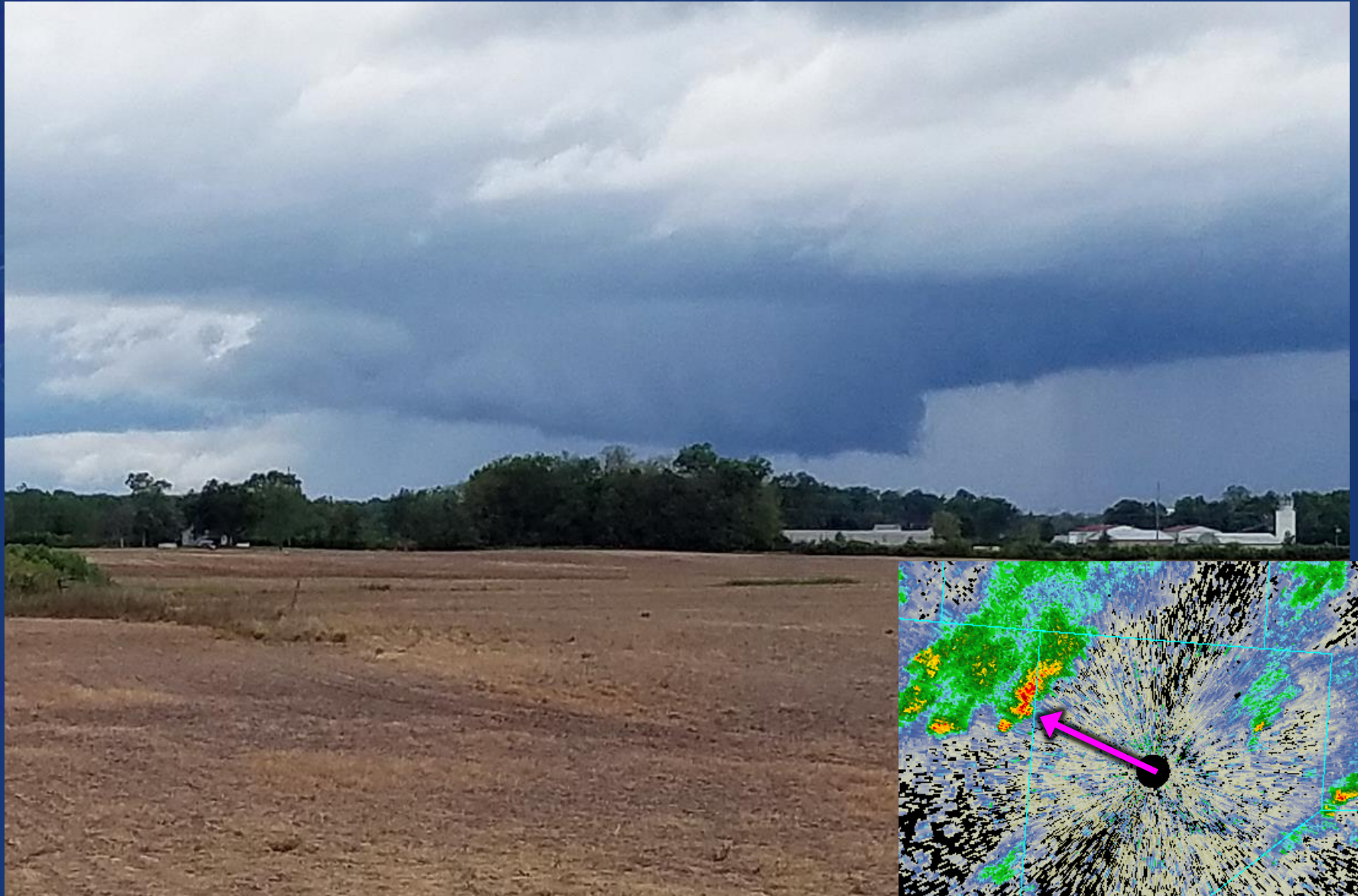
7:27 PM



A Look Outside...

May 24, 2017

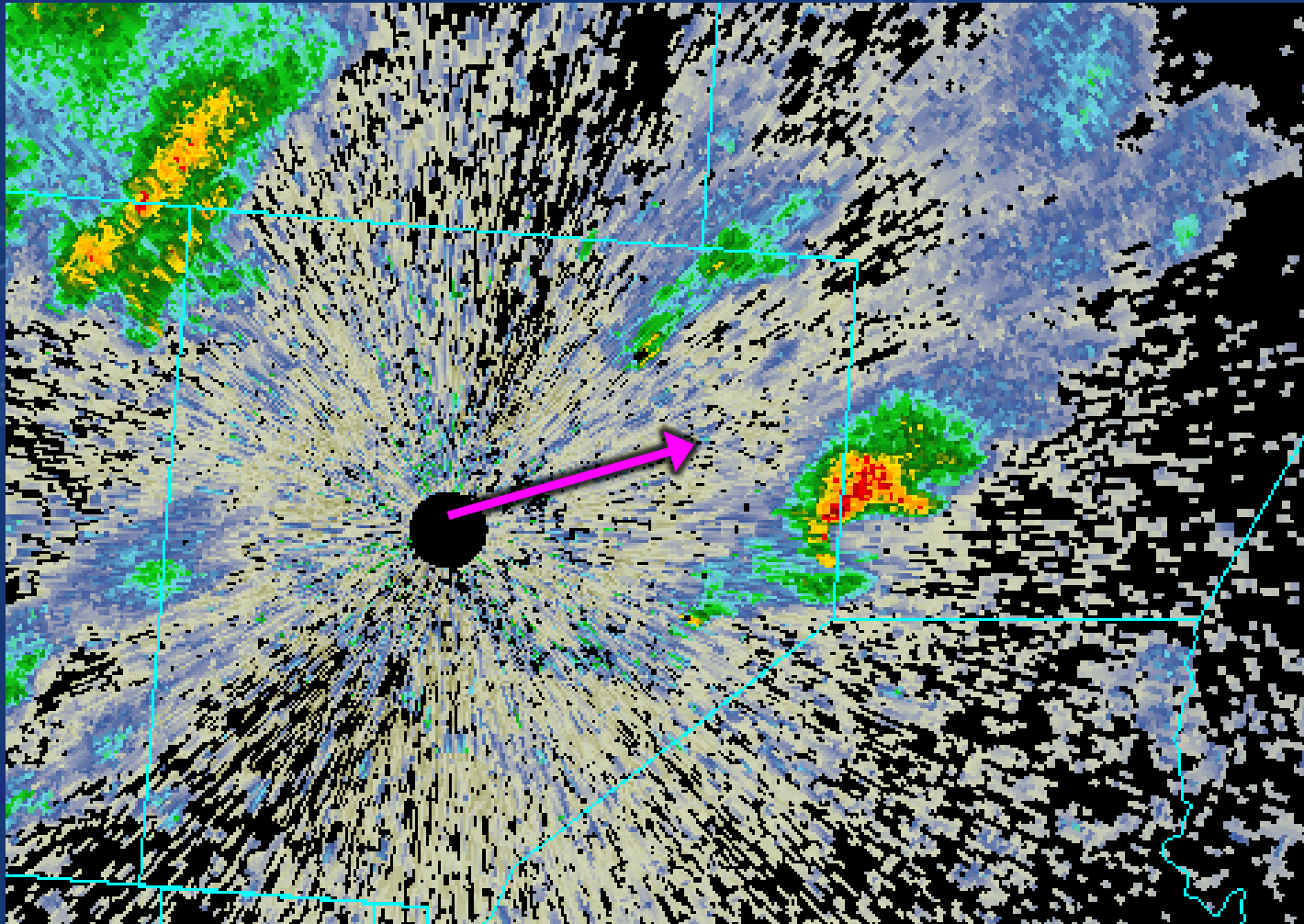
7:27 PM



Another Look Outside...

May 24, 2017

7:44 PM



Another Look Outside...

May 24, 2017

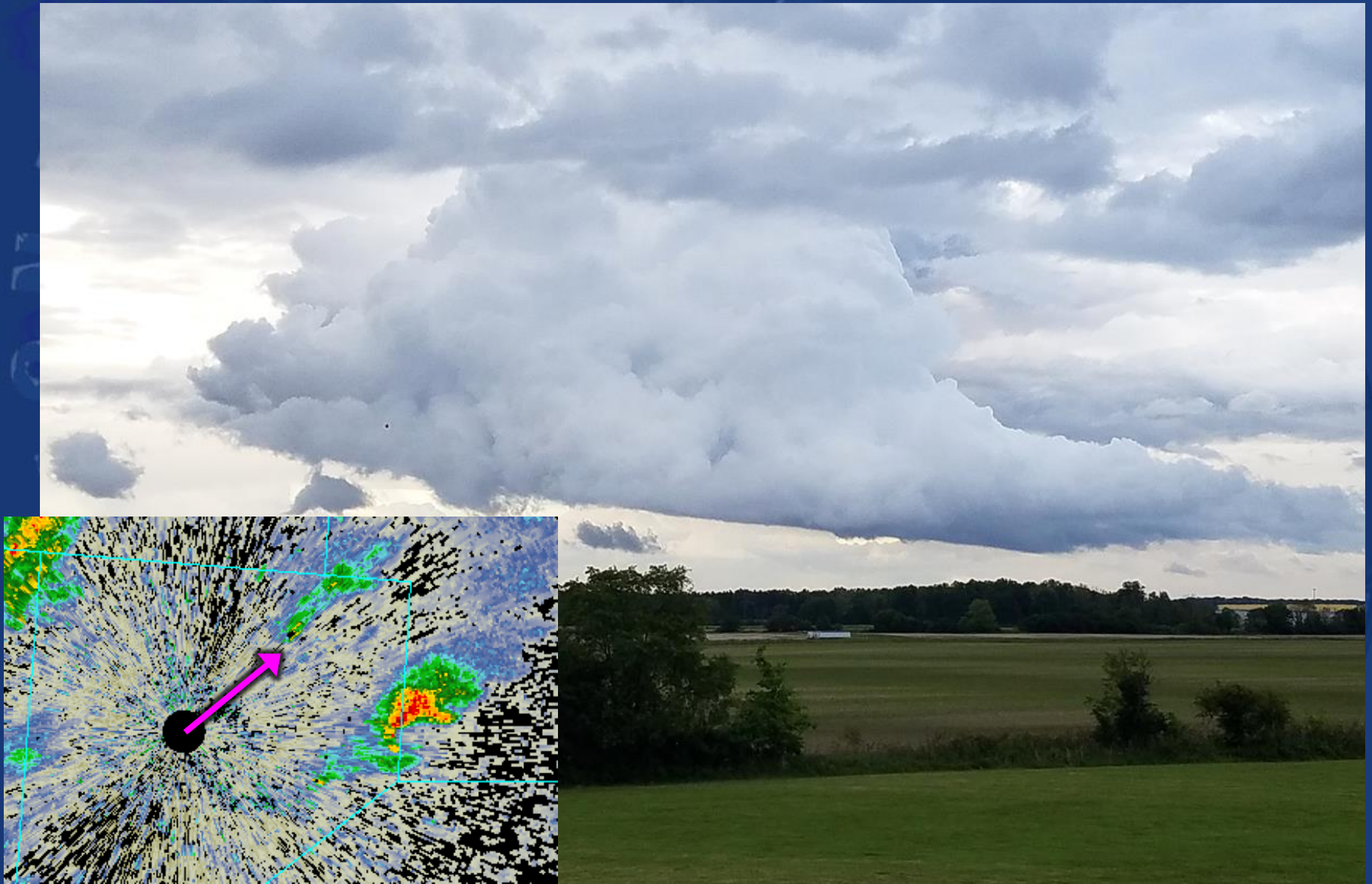
7:44 PM



Another Look Outside...

May 24, 2017

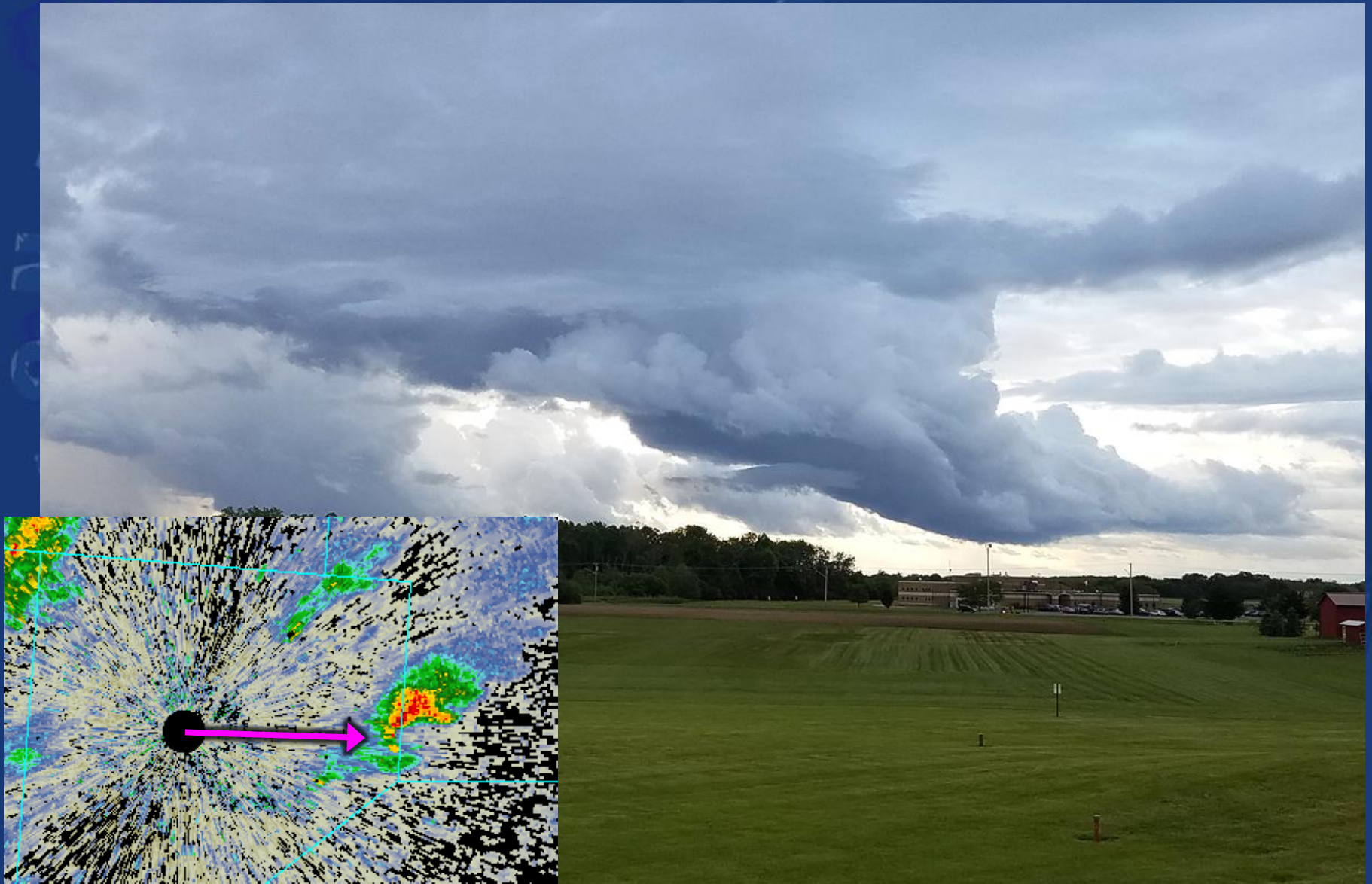
7:44 PM



Another Look Outside...

May 24, 2017

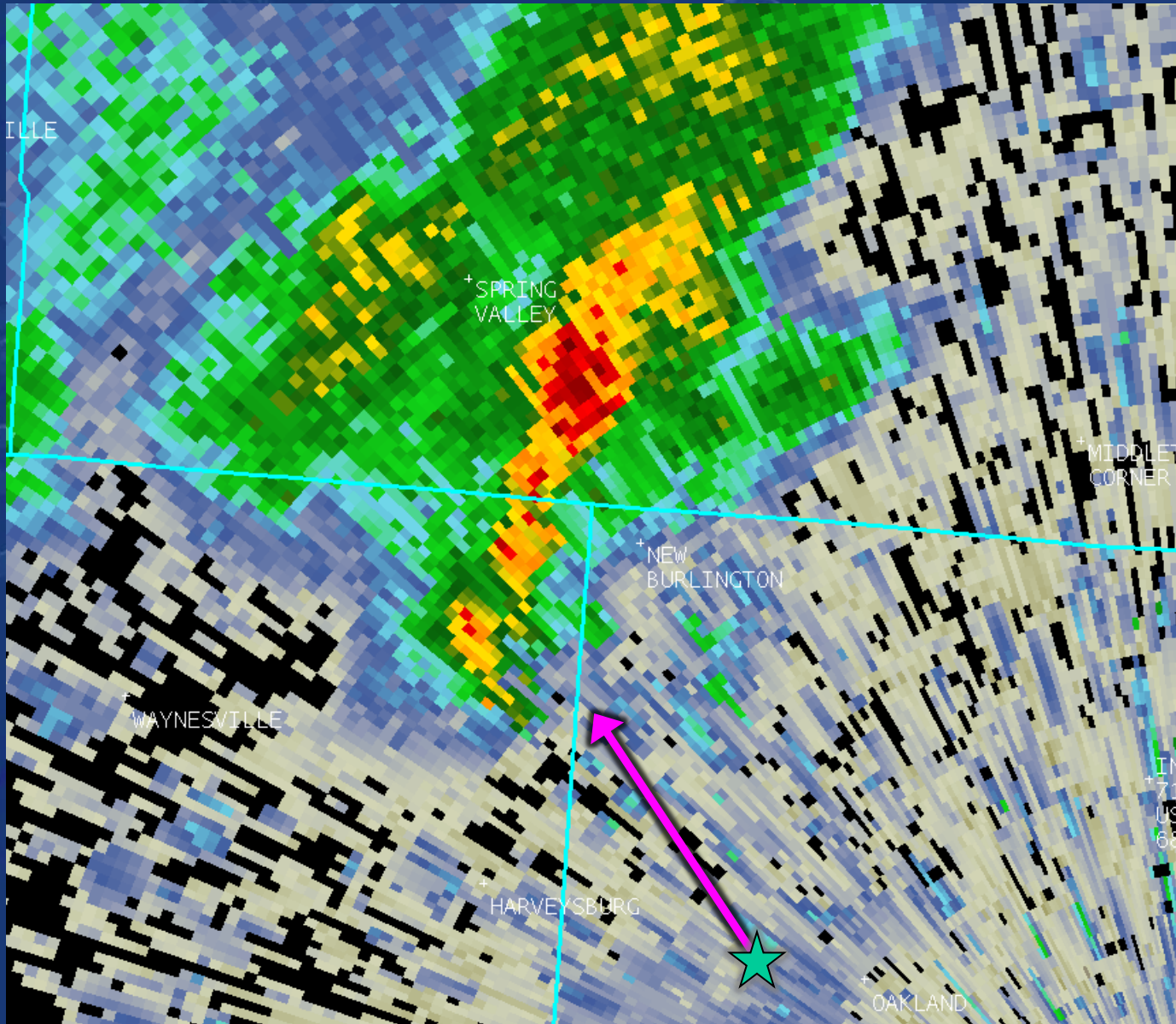
7:44 PM



#1: Harveysburg

May 24, 2017

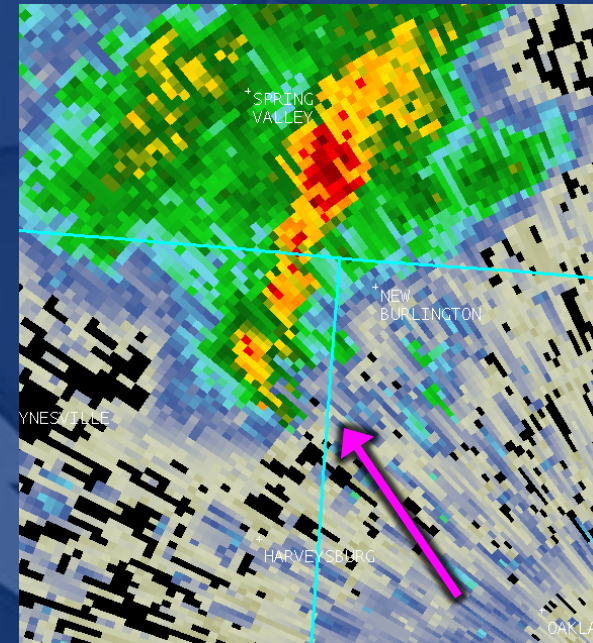
7:47 PM



#1: Harveysburg

May 24, 2017

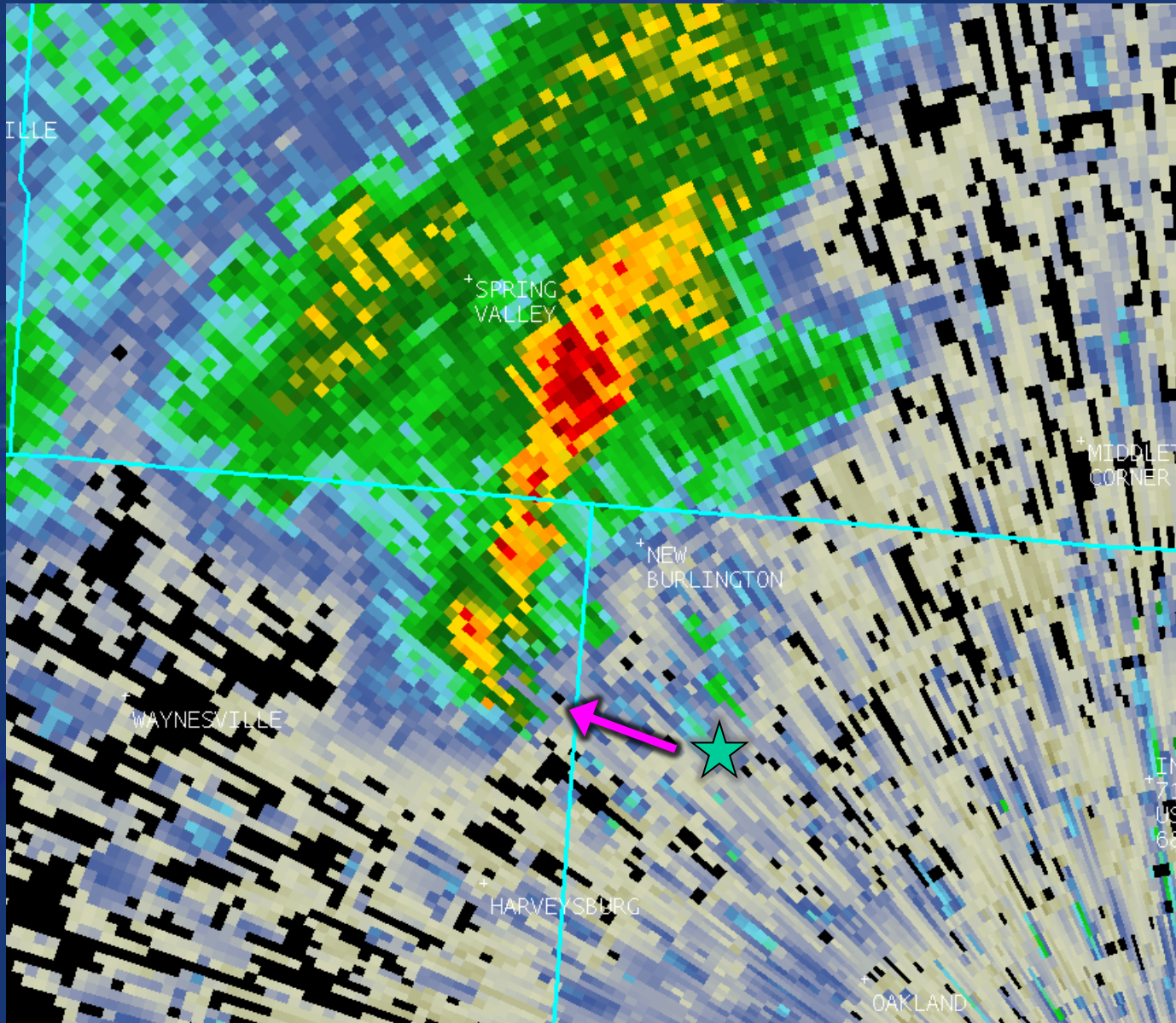
7:47 PM



#1: Harveysburg

May 24, 2017

7:47 PM



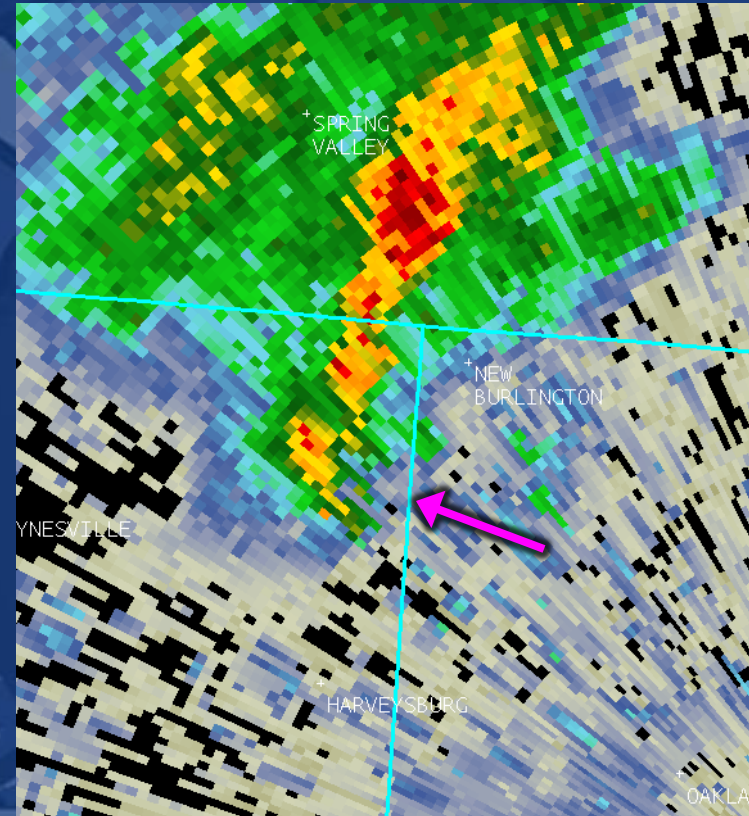
#1: Harveysburg

May 24, 2017

7:47 PM



Angie Hillman



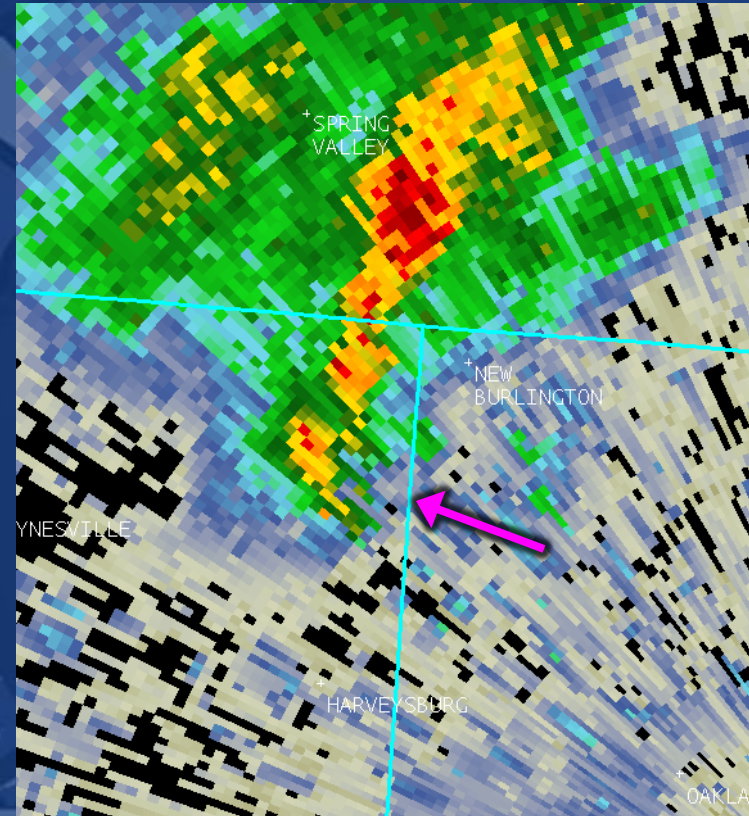
#1: Harveysburg

May 24, 2017

7:47 PM



Angie Hillman



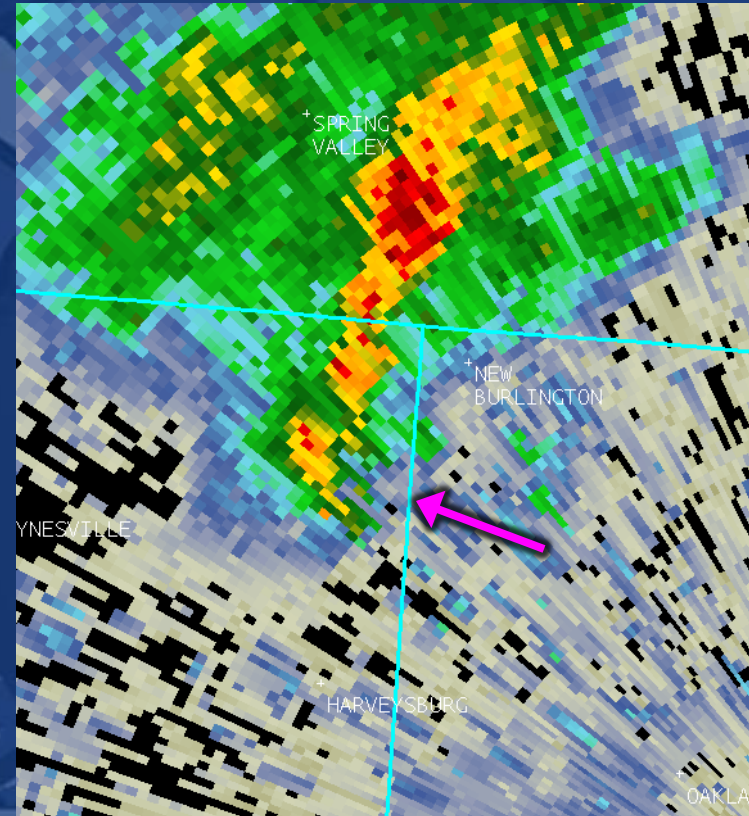
#1: Harveysburg

May 24, 2017

7:47 PM



Angie Hillman



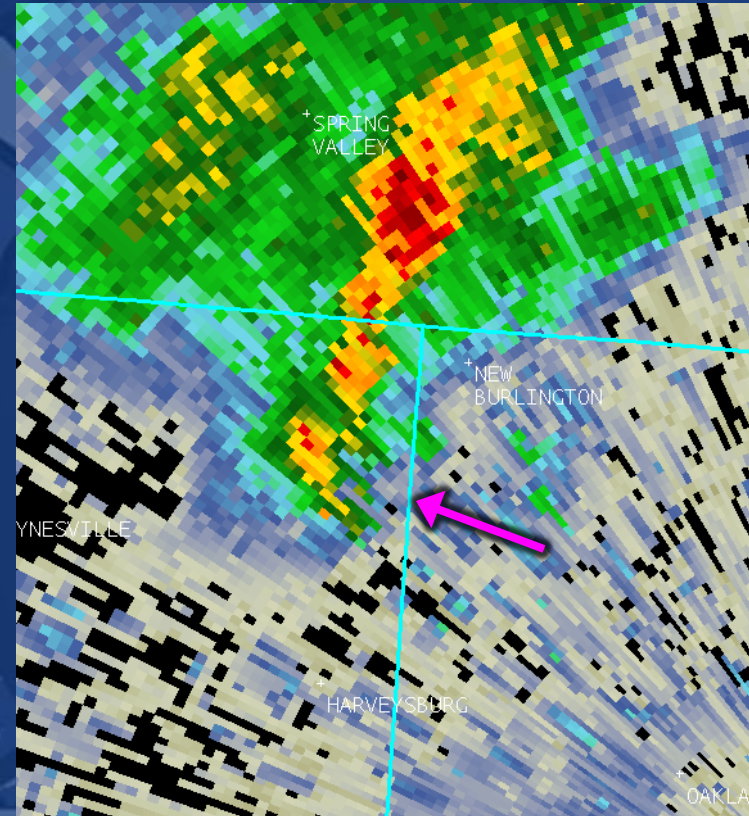
#1: Harveysburg

May 24, 2017

7:47 PM



Angie Hillman



#1: Harveysburg

May 24, 2017

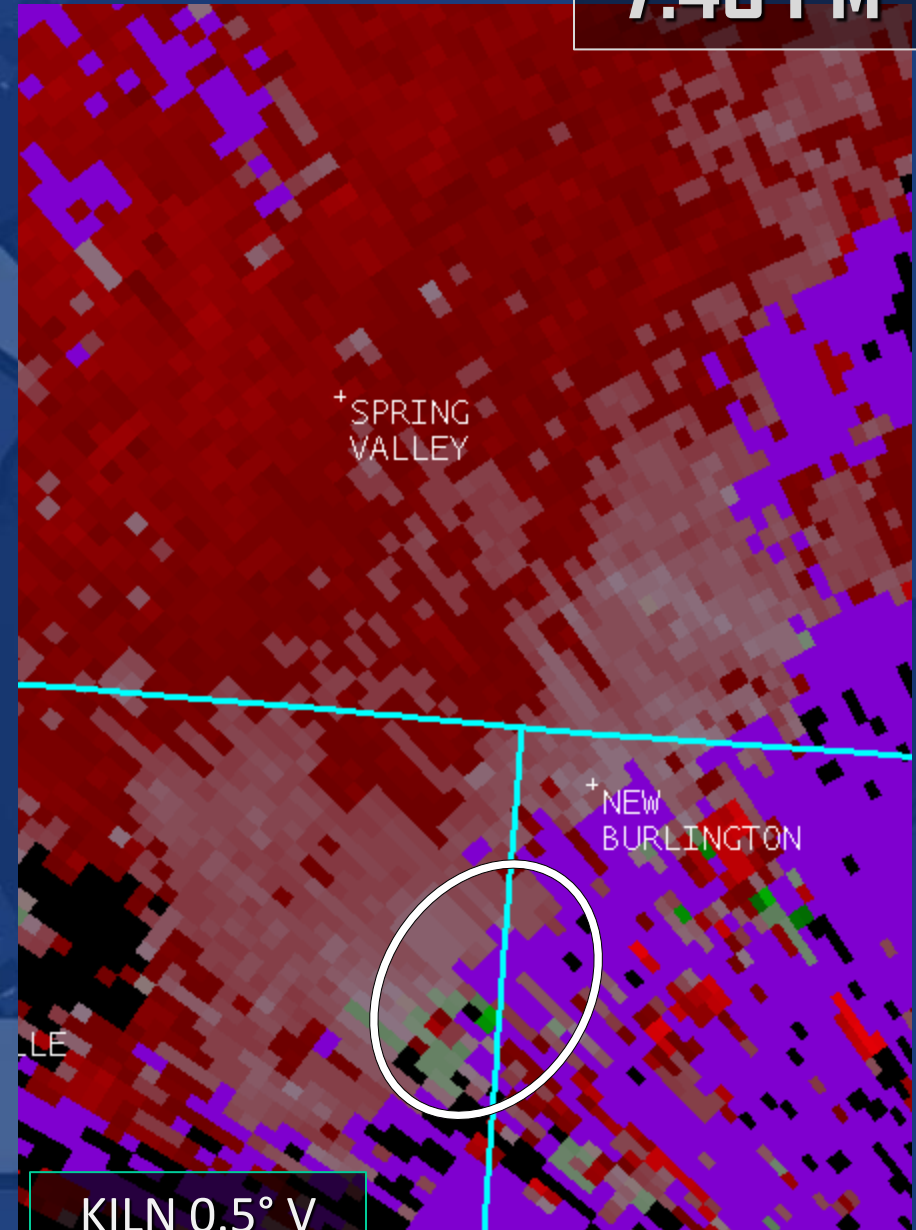
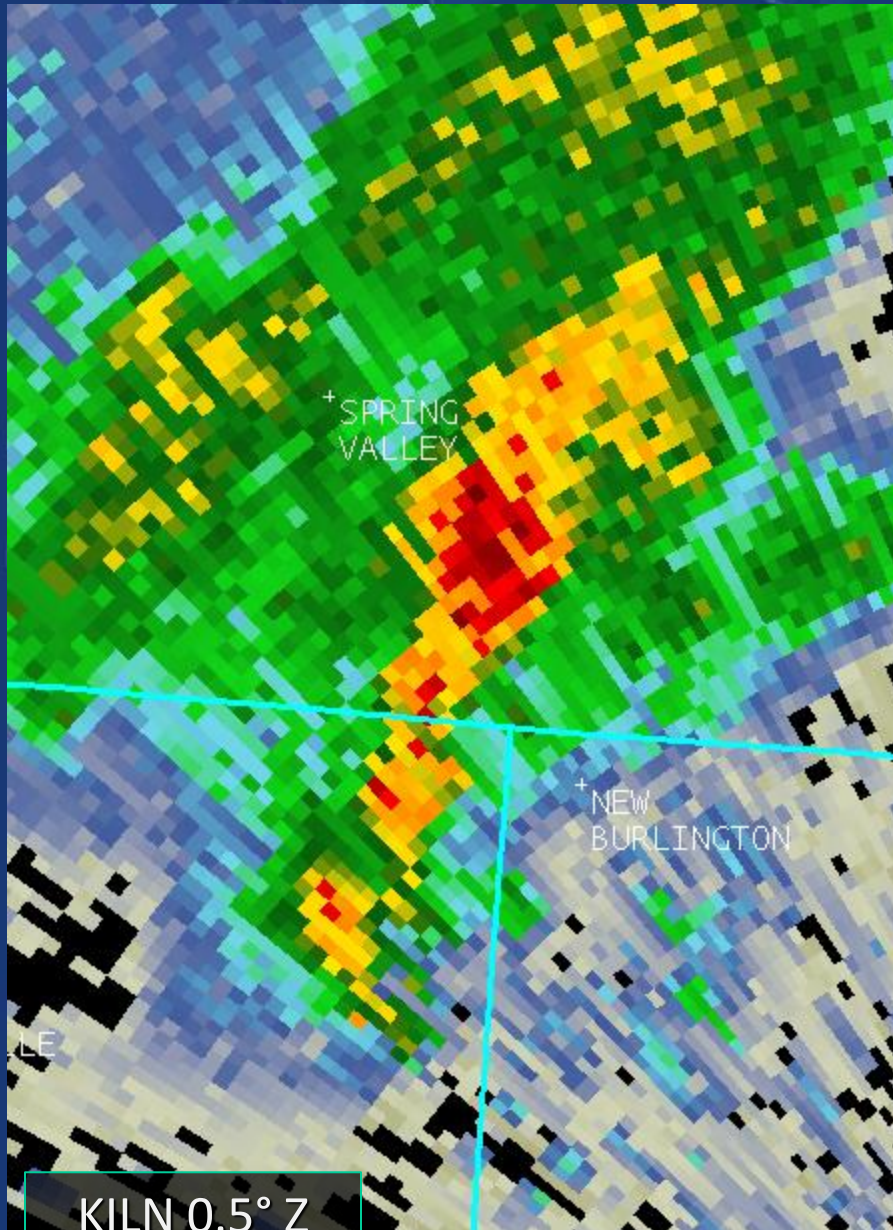
7:47 PM



#1: Harveysburg

May 24, 2017

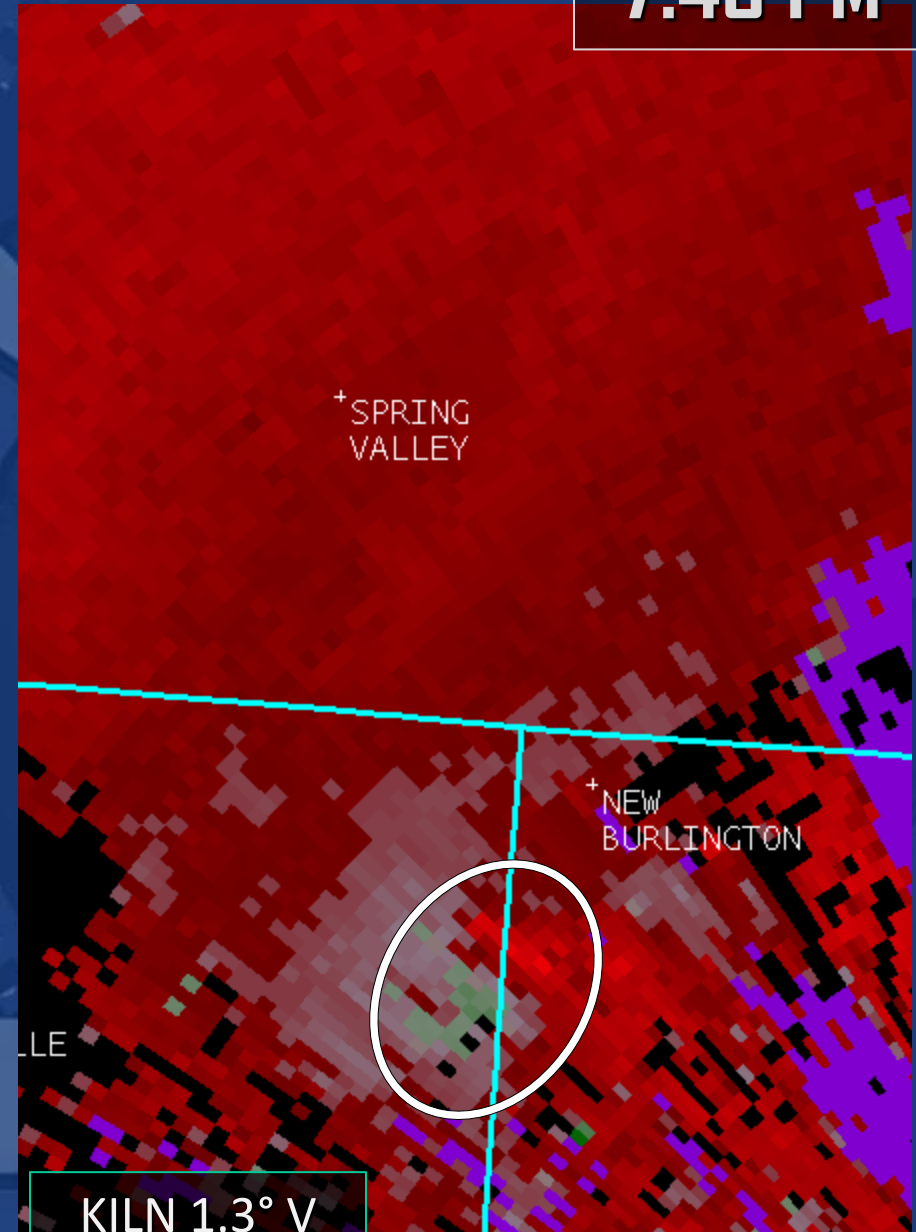
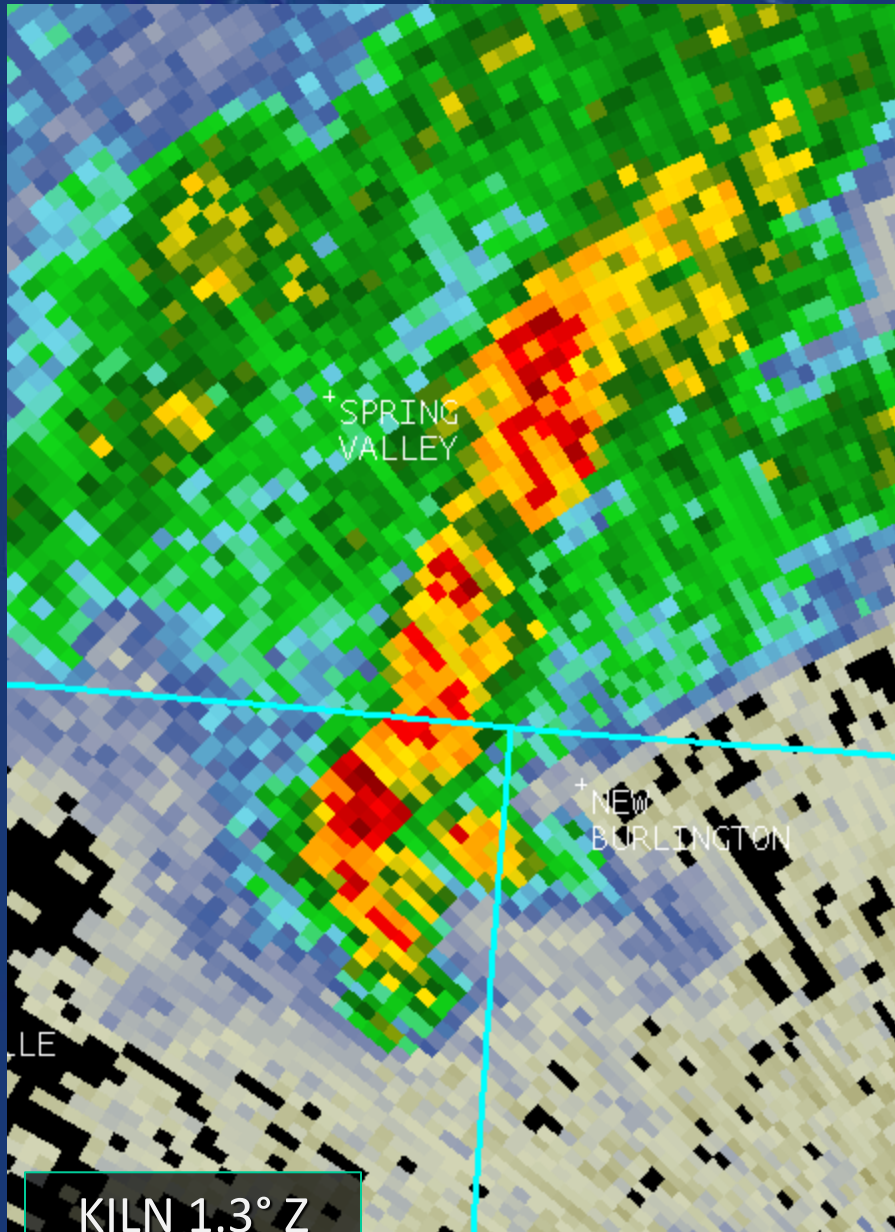
7:48 PM



#1: Harveysburg

May 24, 2017

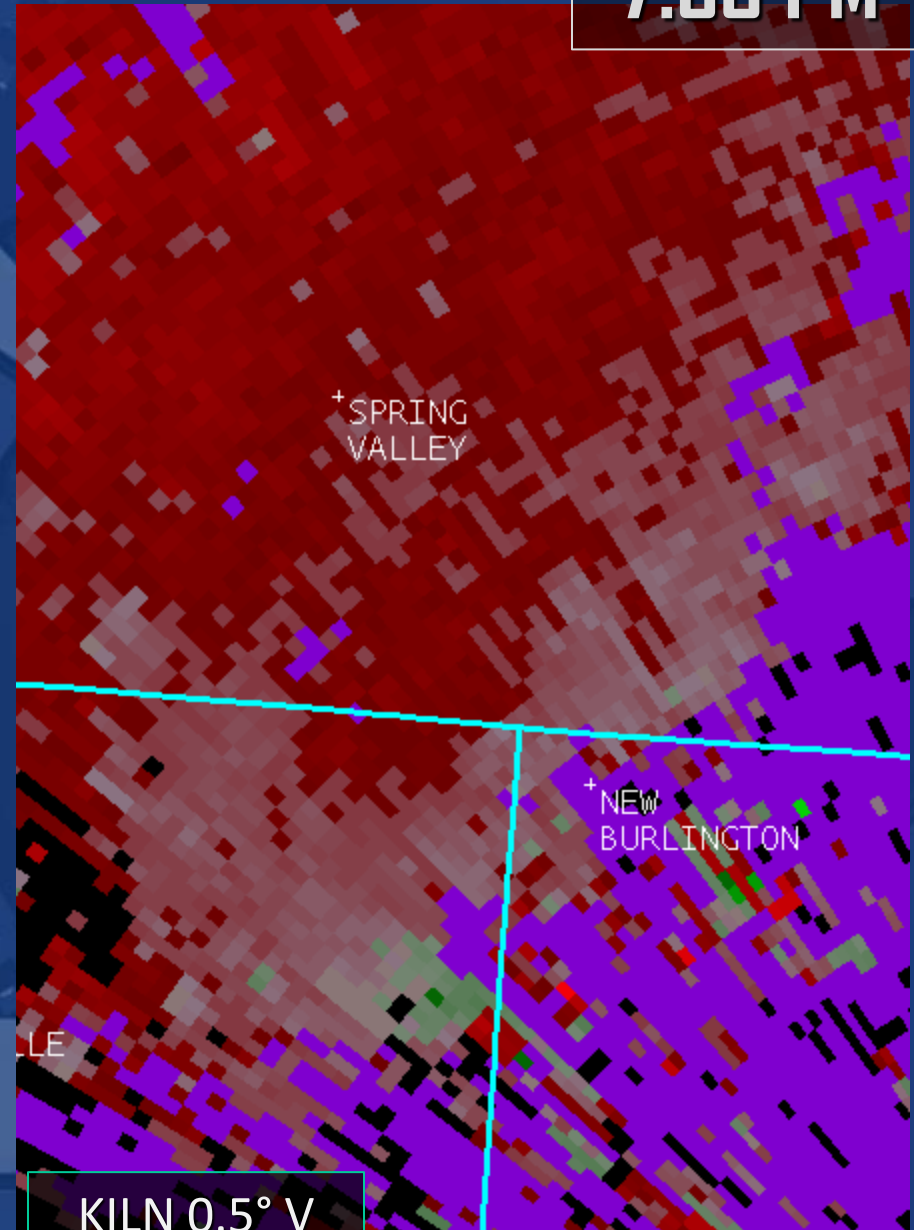
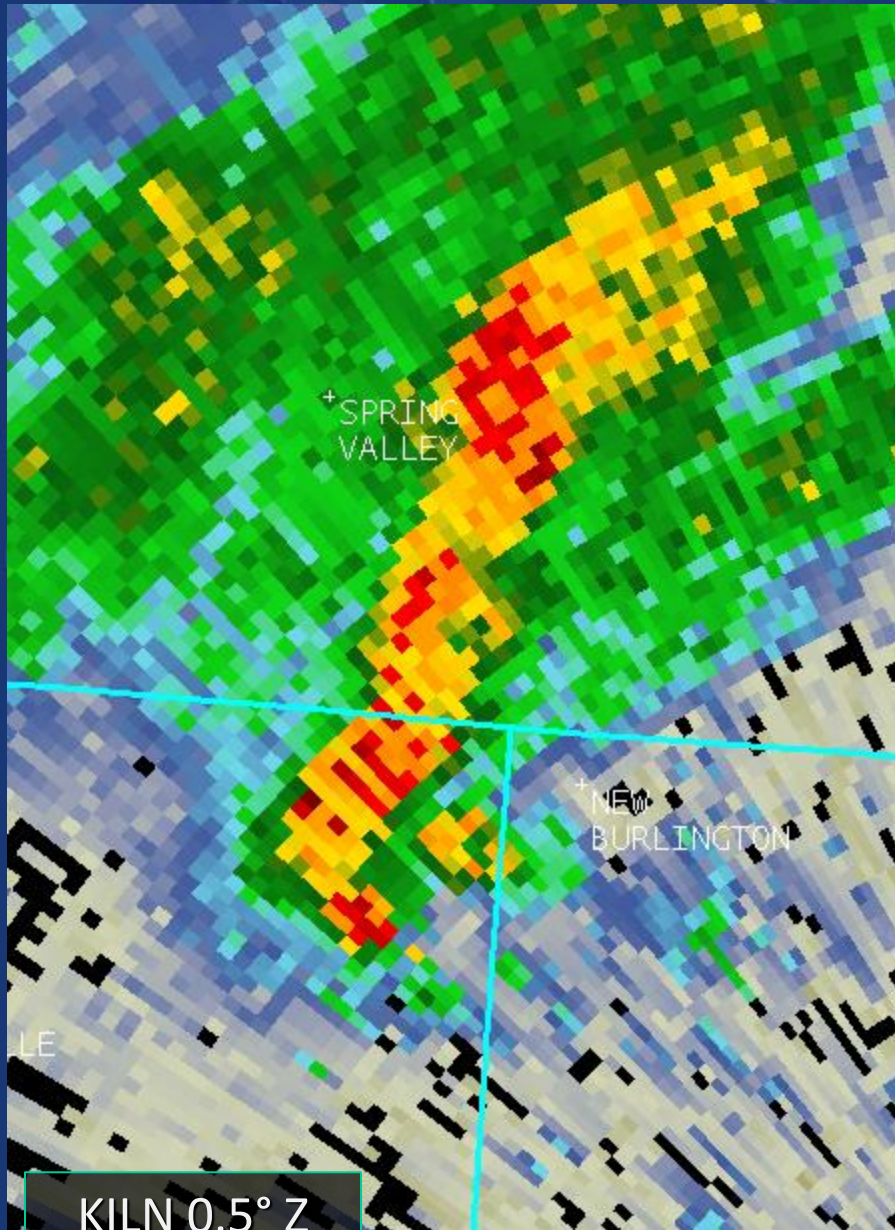
7:48 PM



#1: Harveysburg

May 24, 2017

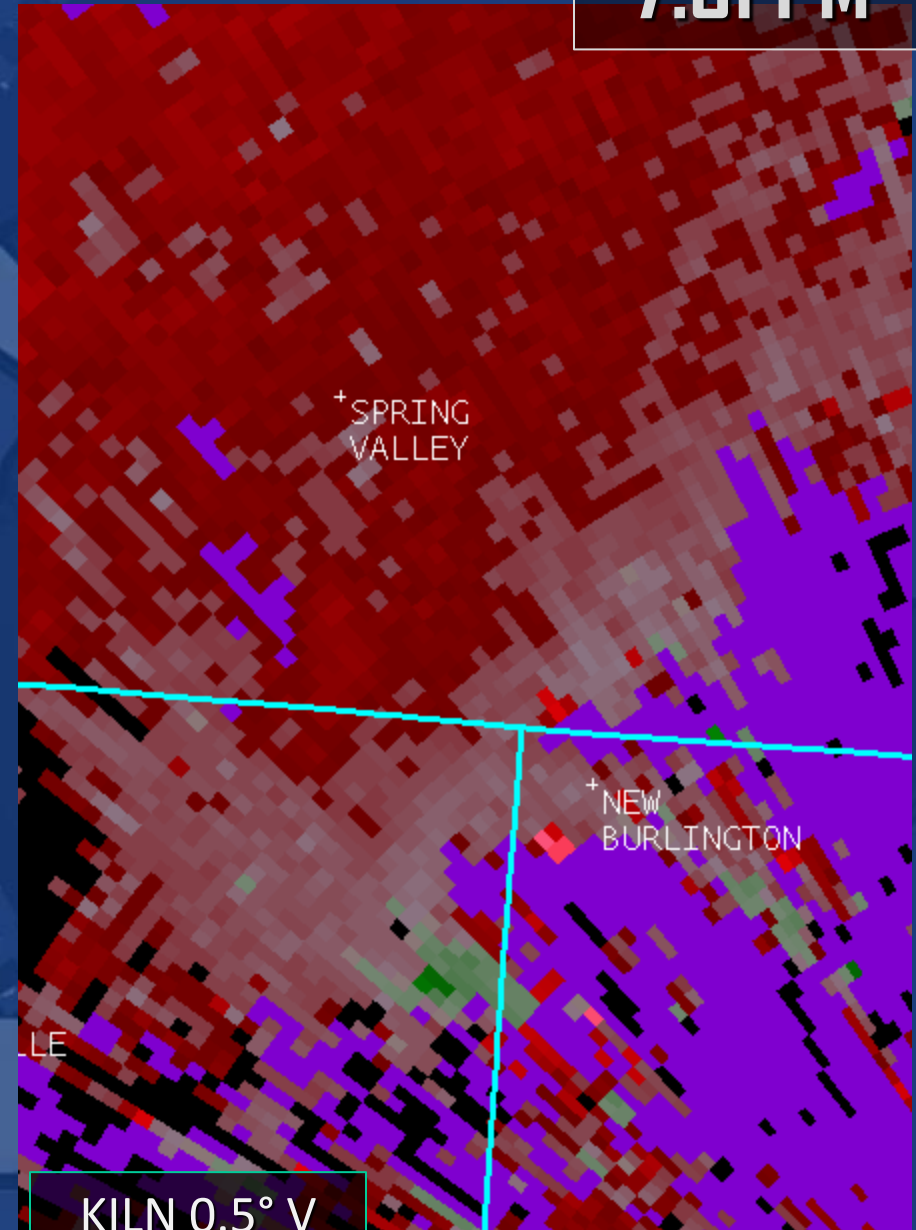
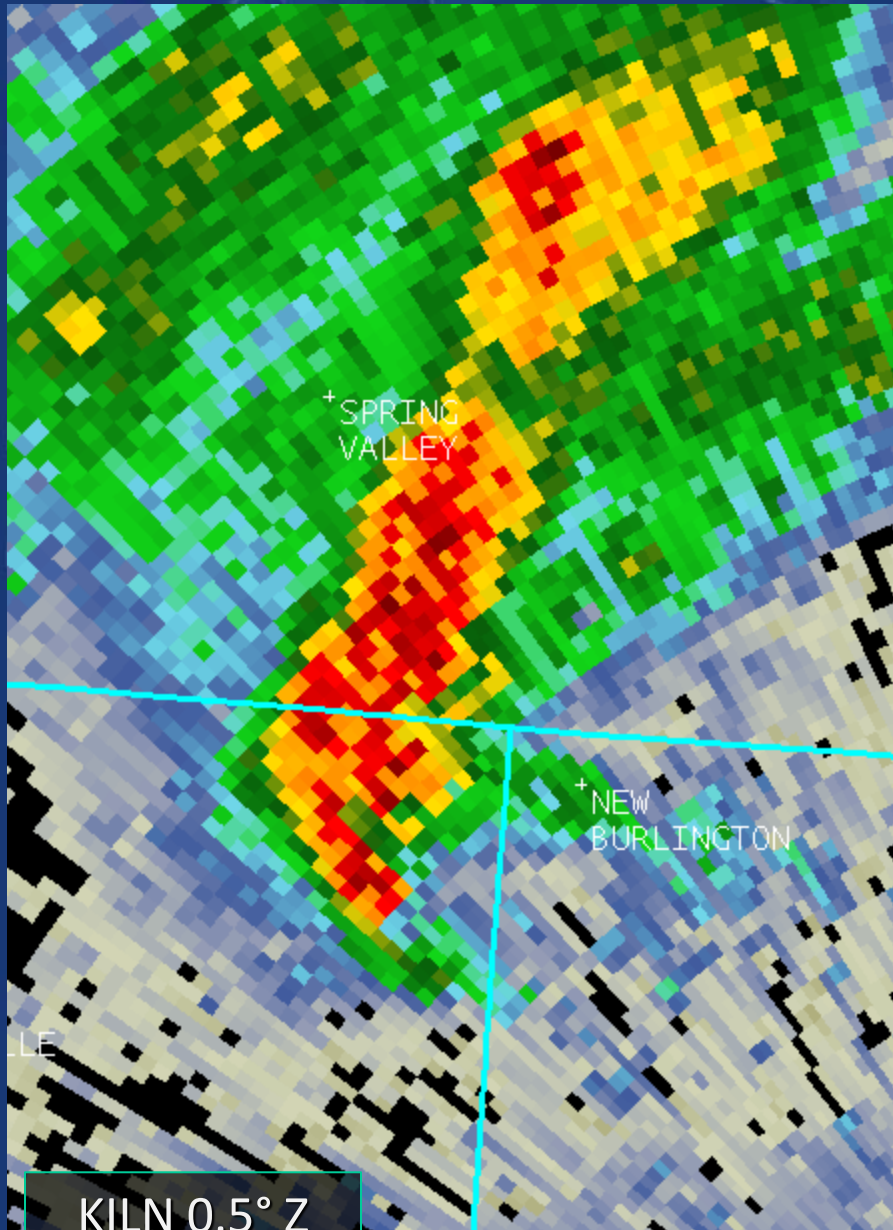
7:50 PM



#1: Harveysburg

May 24, 2017

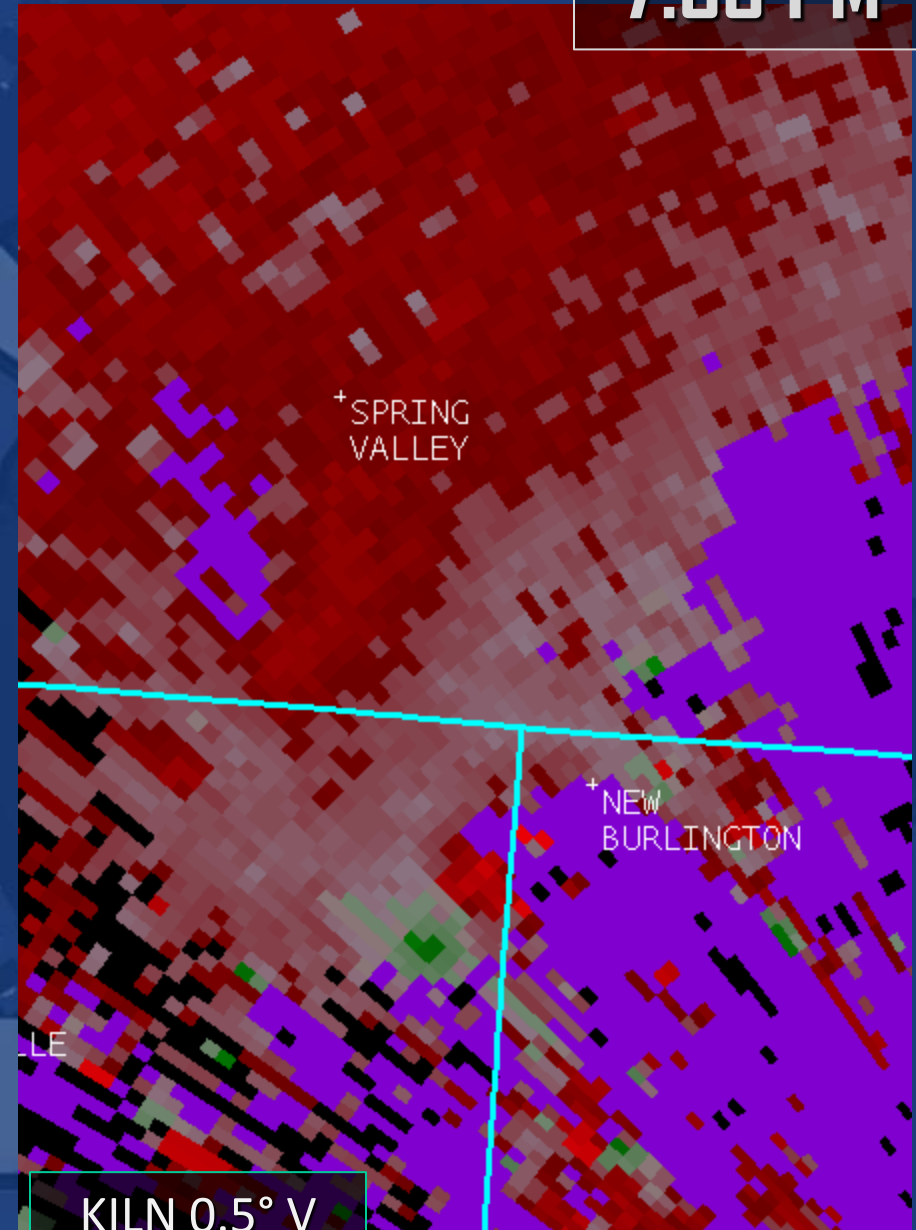
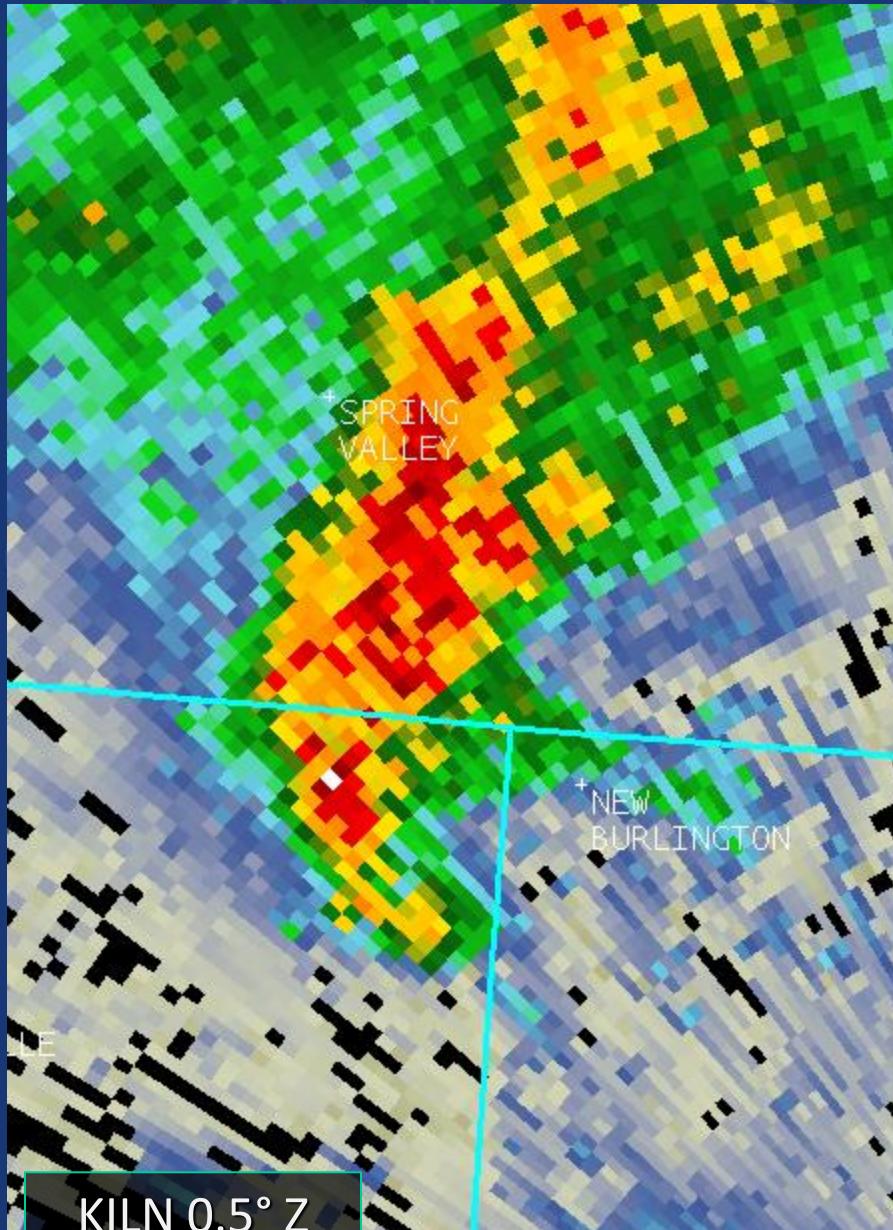
7:51 PM



#1: Harveysburg

May 24, 2017

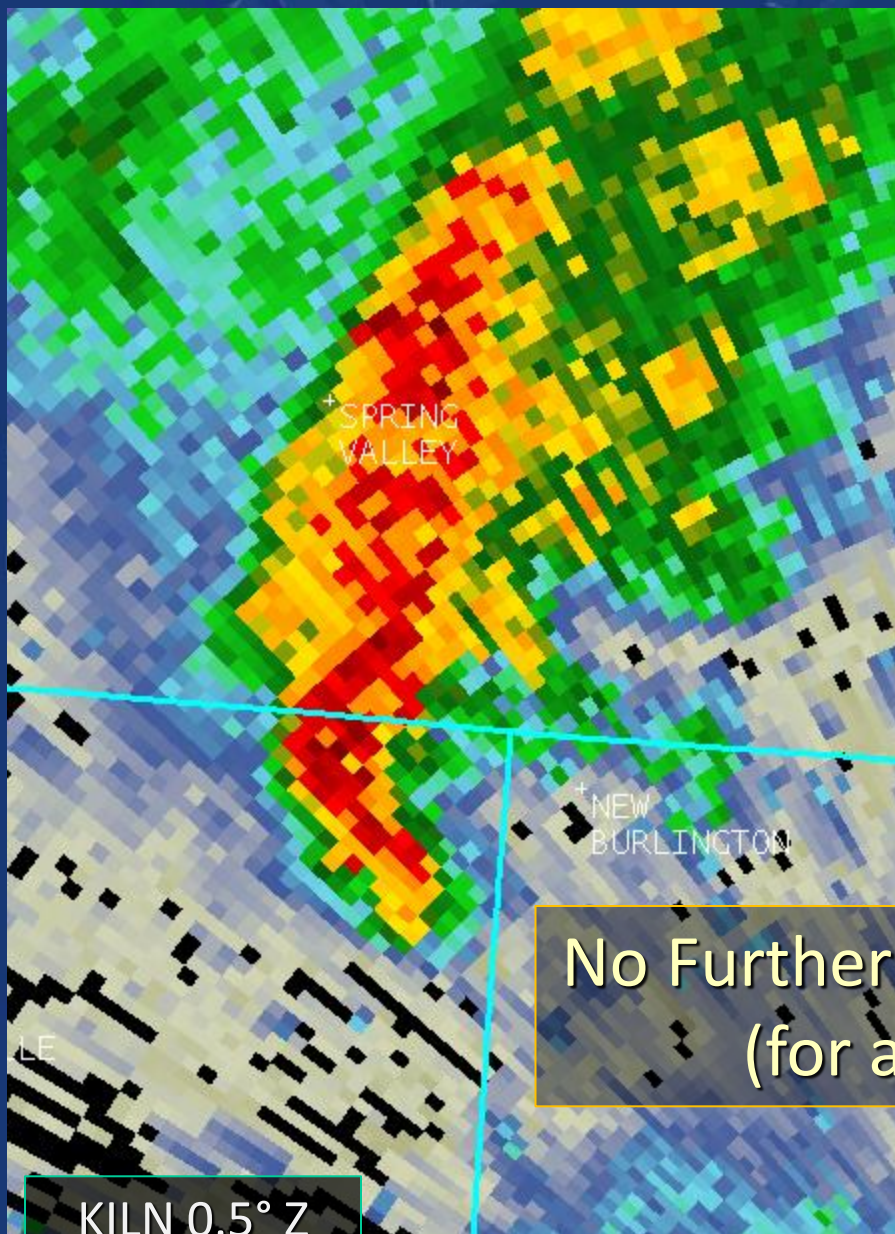
7:53 PM



#1: Harveysburg

May 24, 2017

7:55 PM

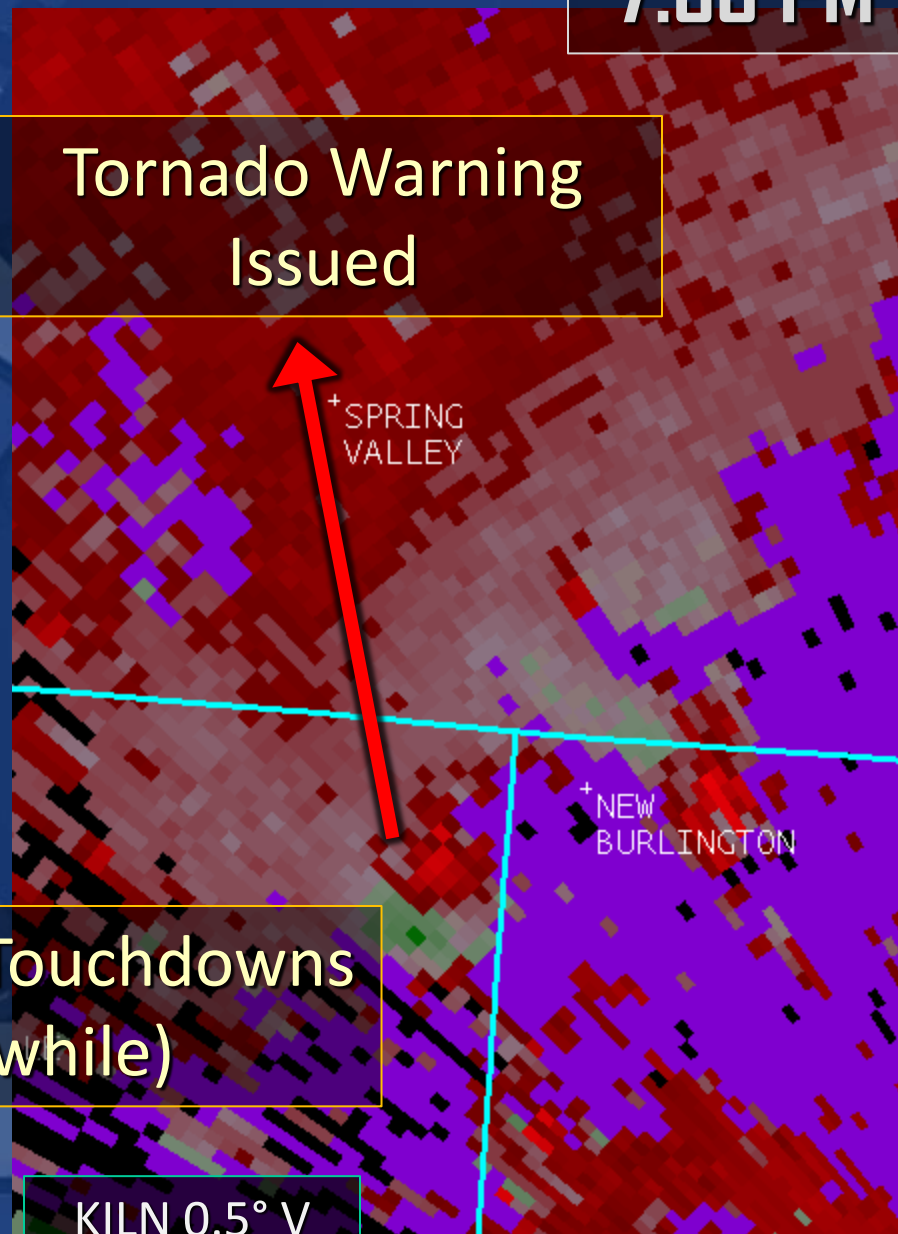


Tornado Warning
Issued



No Further Touchdowns
(for a while)

KILN 0.5° V

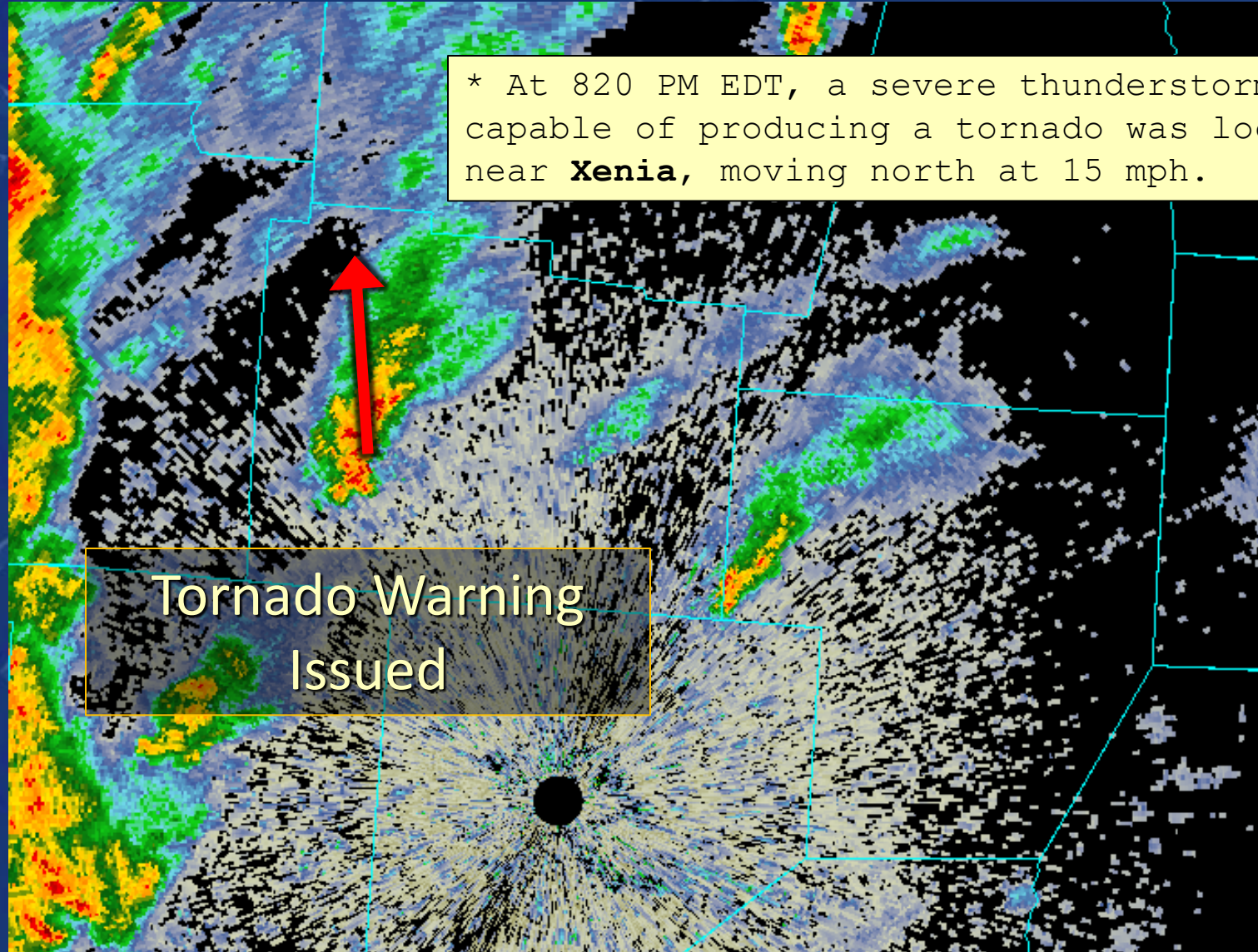


#2: Beavercreek Twp

May 24, 2017

8:20 PM

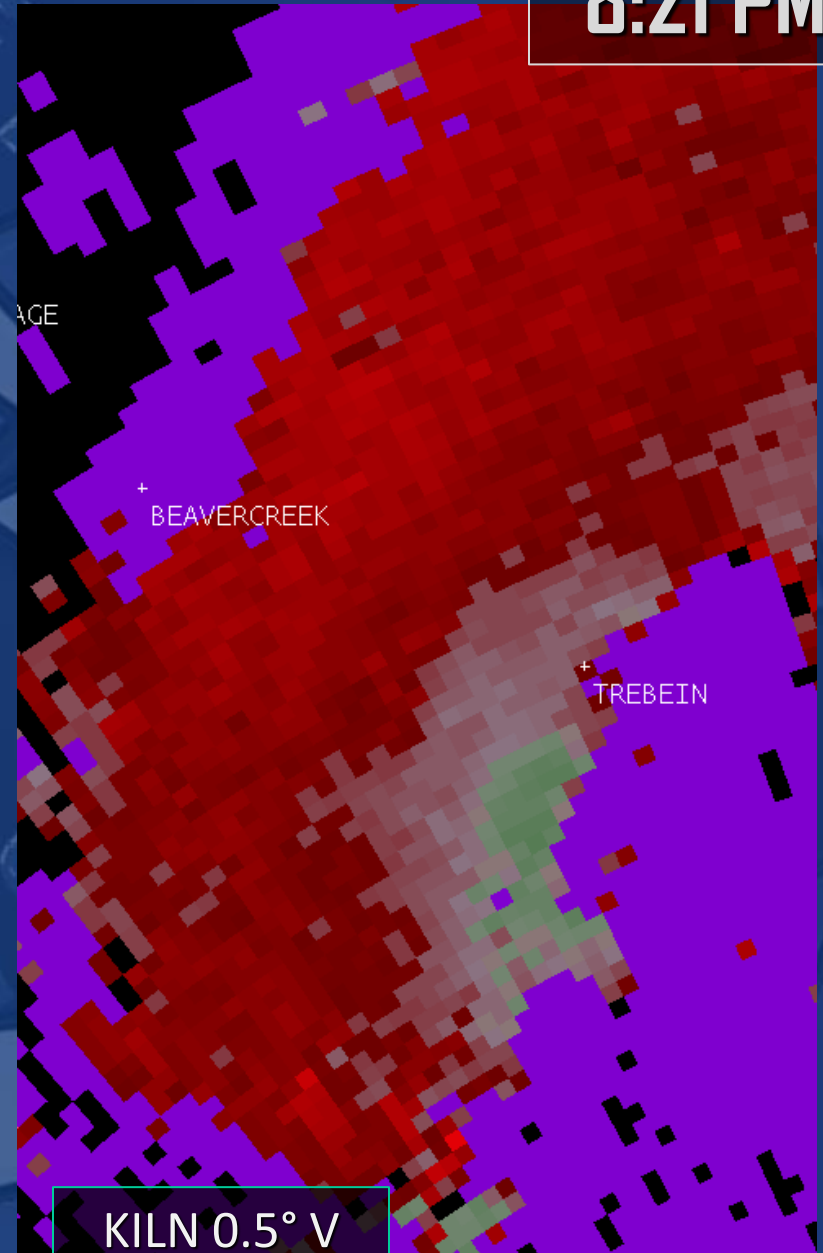
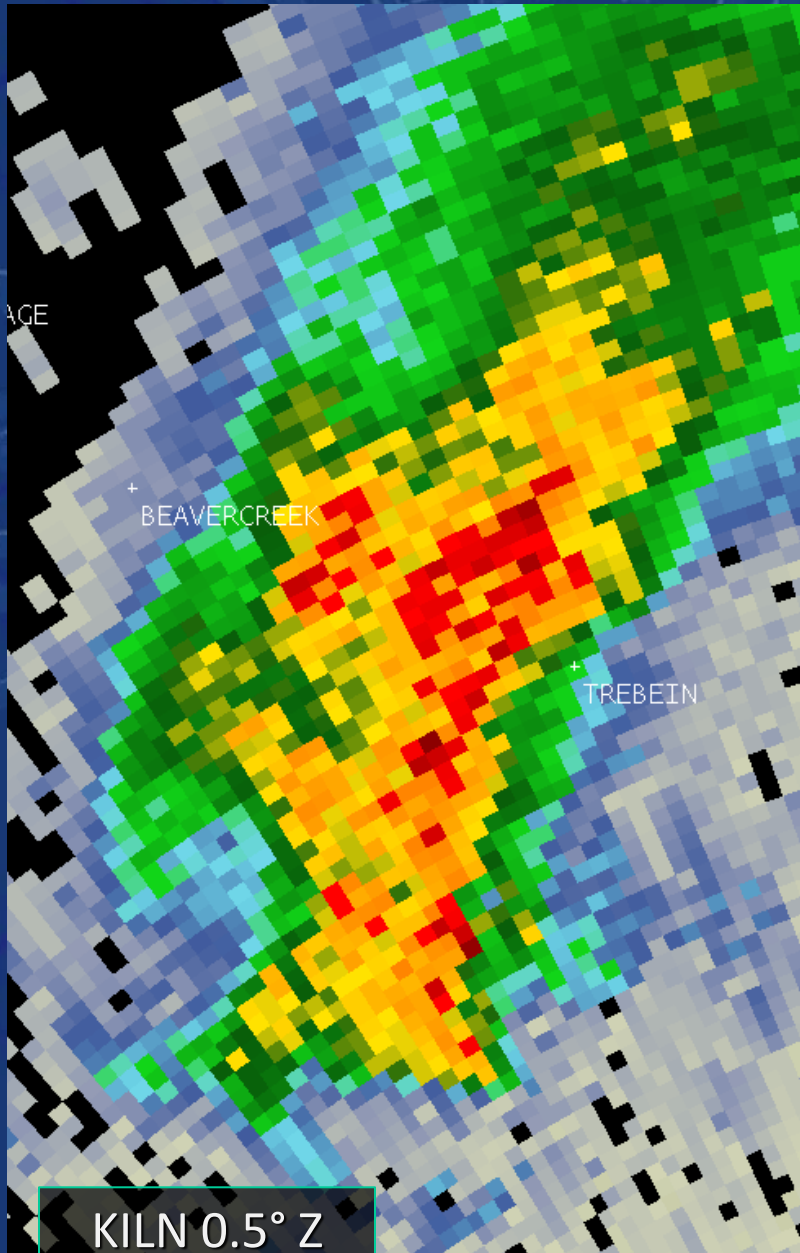
* At 820 PM EDT, a severe thunderstorm capable of producing a tornado was located near **Xenia**, moving north at 15 mph.



#2: Beavercreek Twp

May 24, 2017

8:21 PM

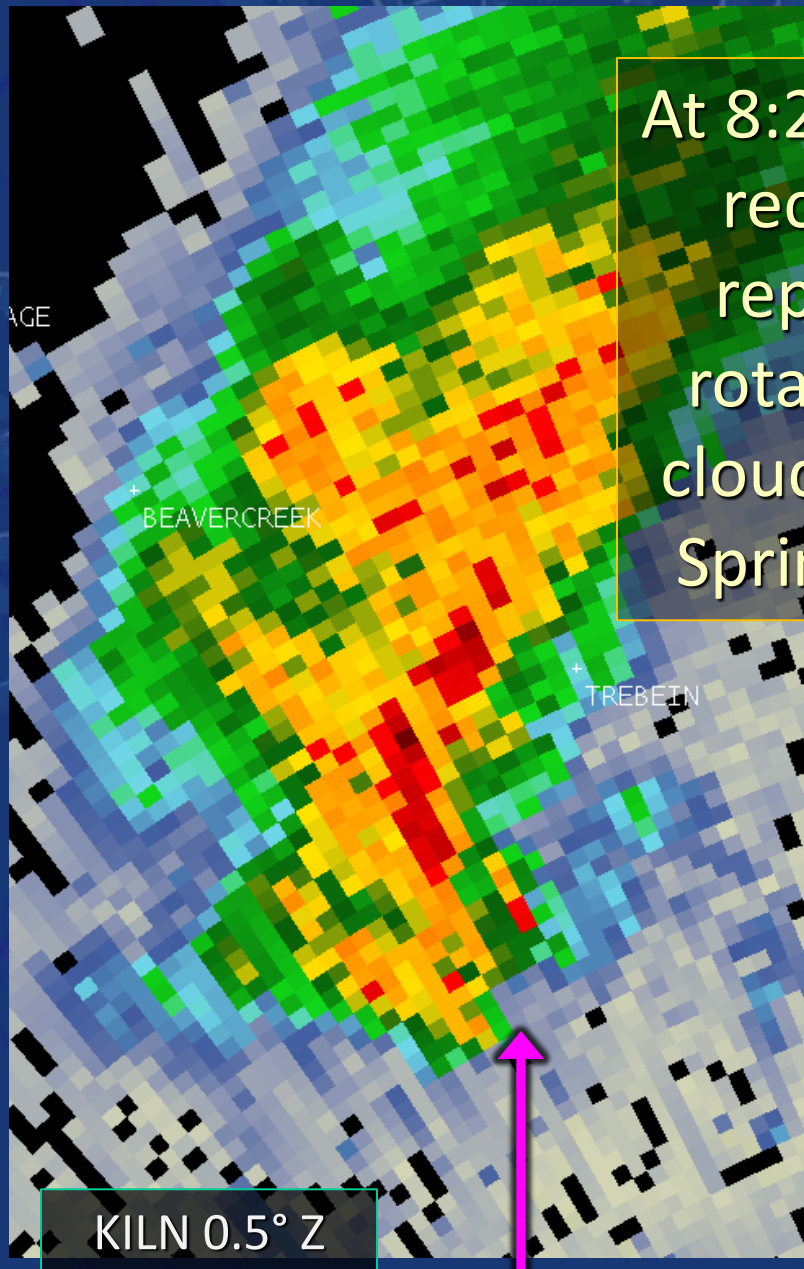


#2: Beavercreek Twp

May 24, 2017

8:23 PM

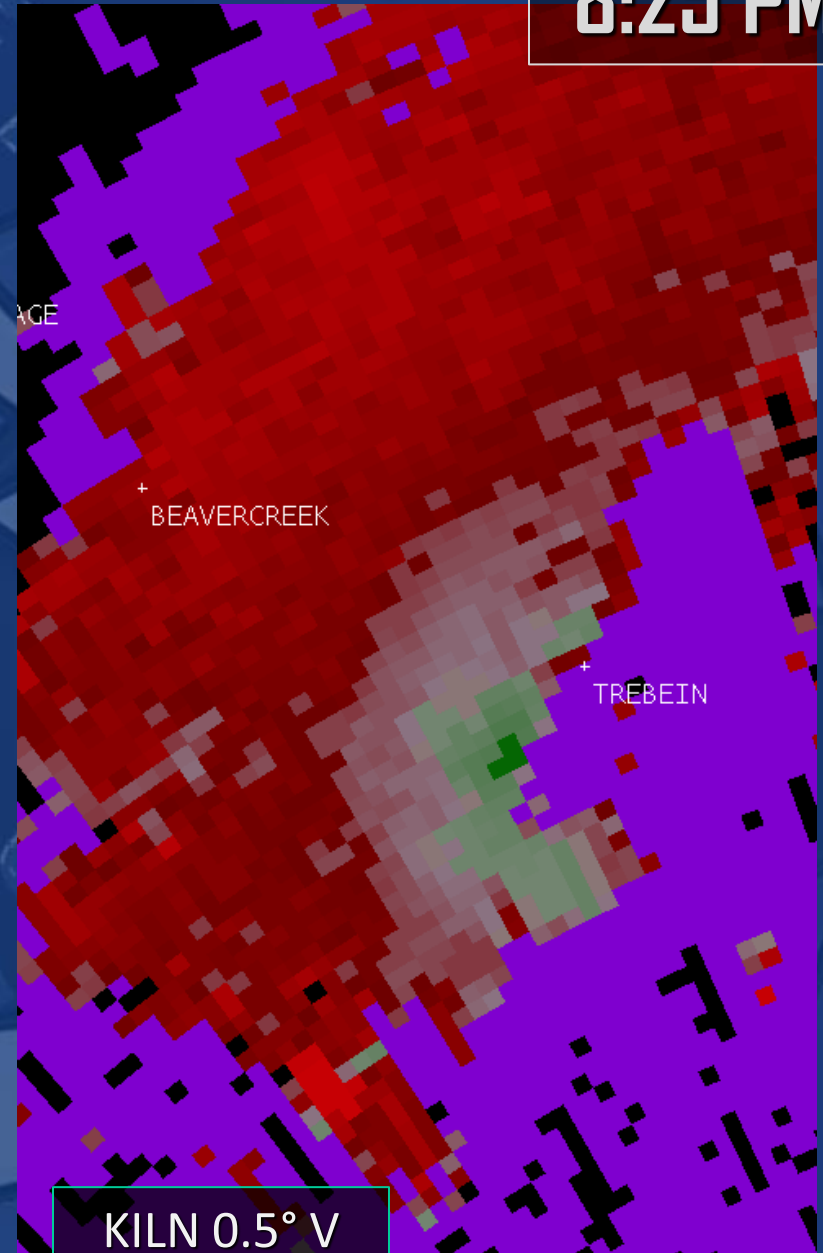
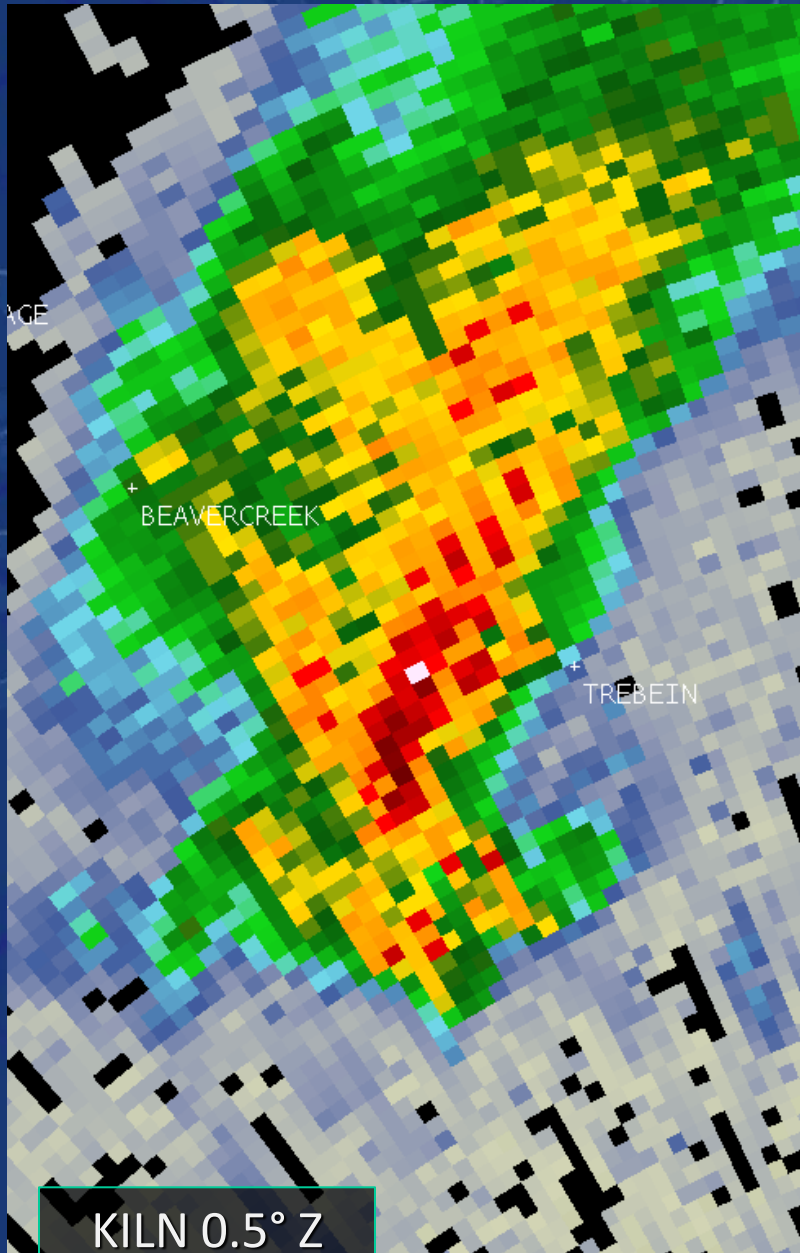
At 8:23 PM, ILN received a report of a rotating wall cloud north of Spring Valley.



#2: Beavercreek Twp

May 24, 2017

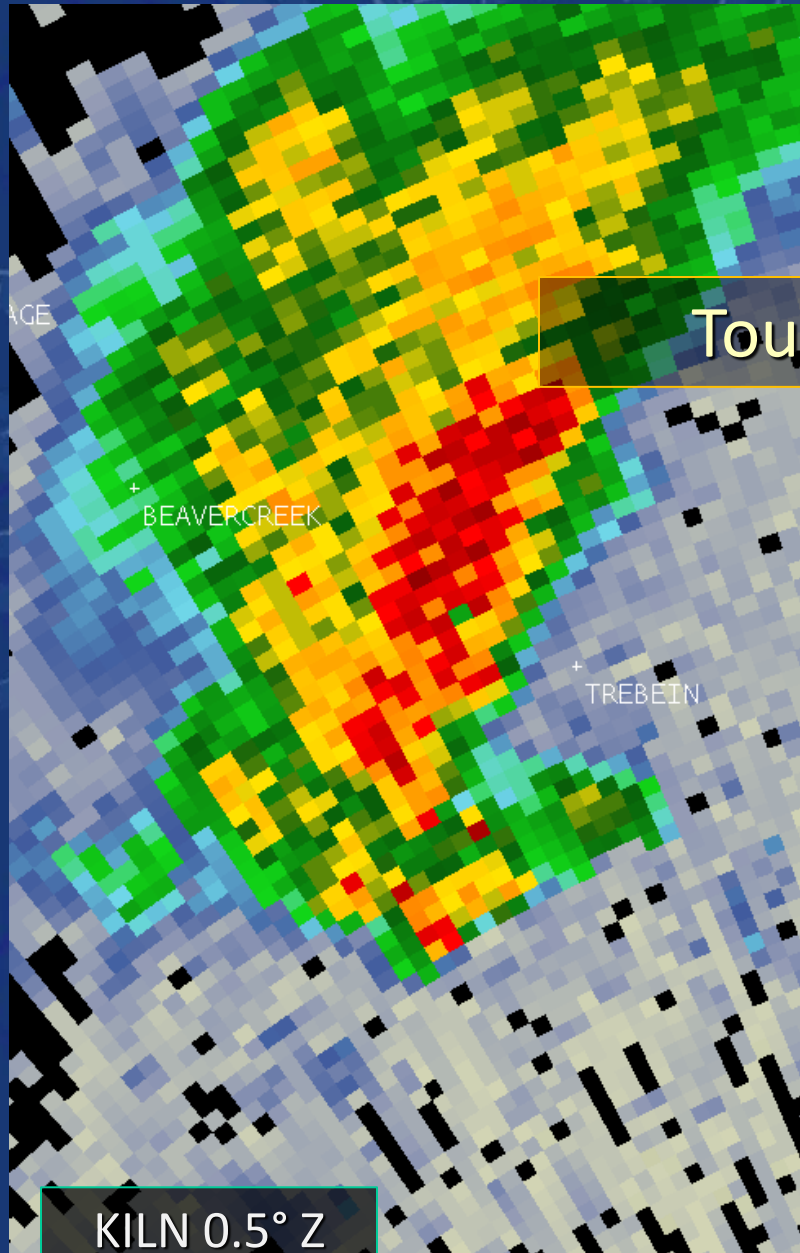
8:25 PM



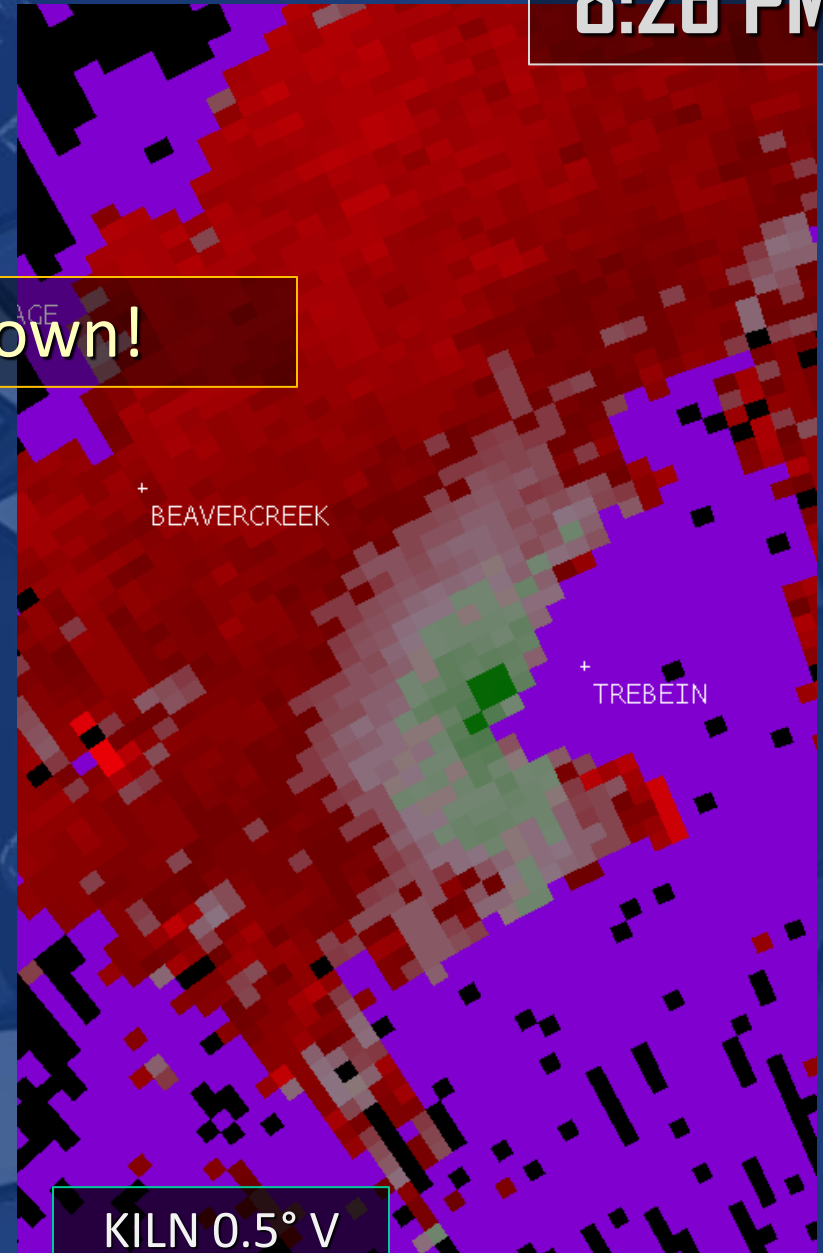
#2: Beavercreek Twp

May 24, 2017

8:26 PM



Touchdown!



#2: Beaver Creek Twp

May 24, 2017

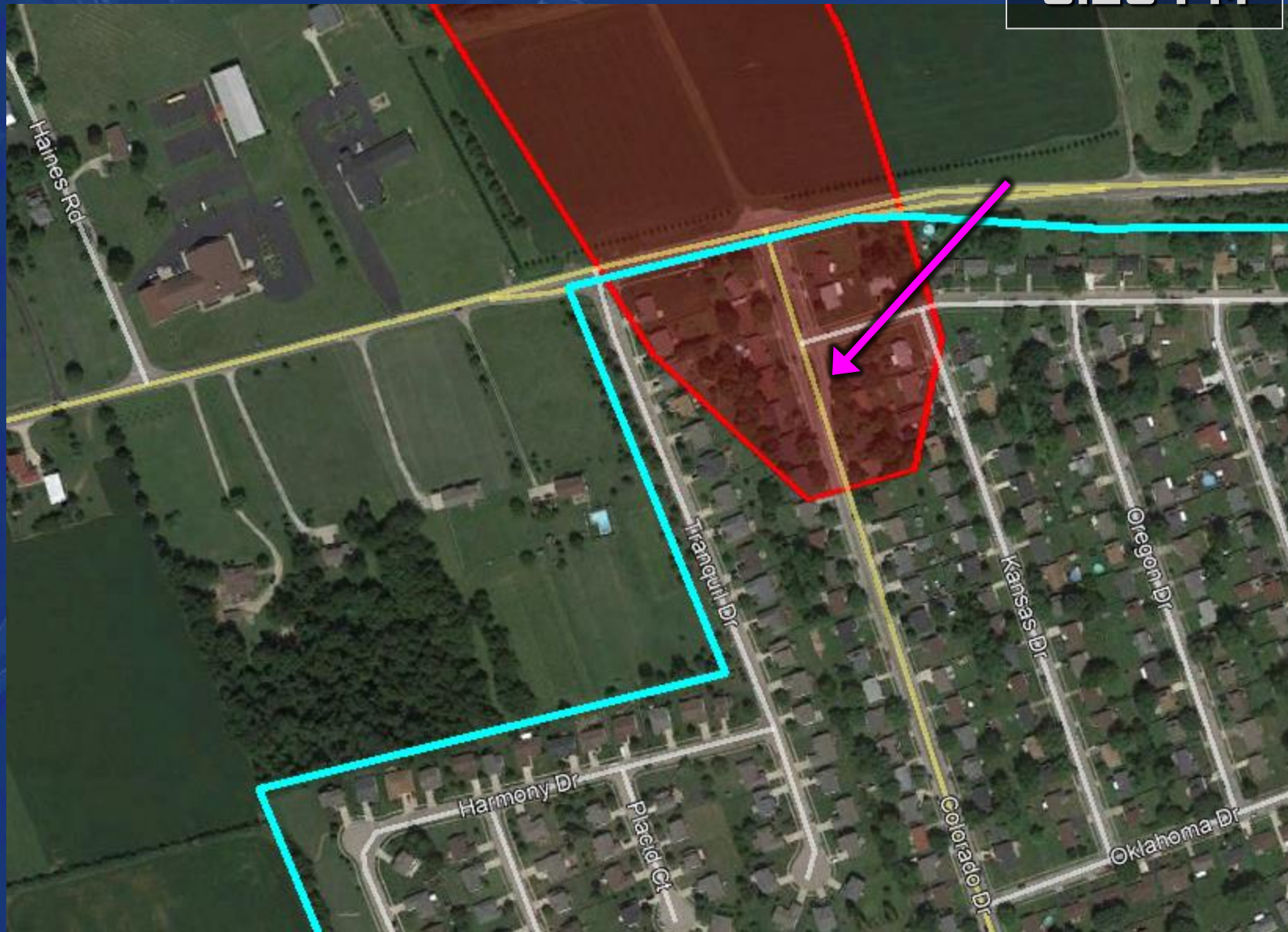
8:26 PM



#2: Beavercreek Twp

May 24, 2017

8:26 PM



#2: Beavercreek Twp

May 24, 2017

8:26 PM

The Great Xenia Tornado of 2017



#2: Beaver Creek Twp

May 24, 2017

8:29 PM



KI19 AWOS

Before: 10008KT

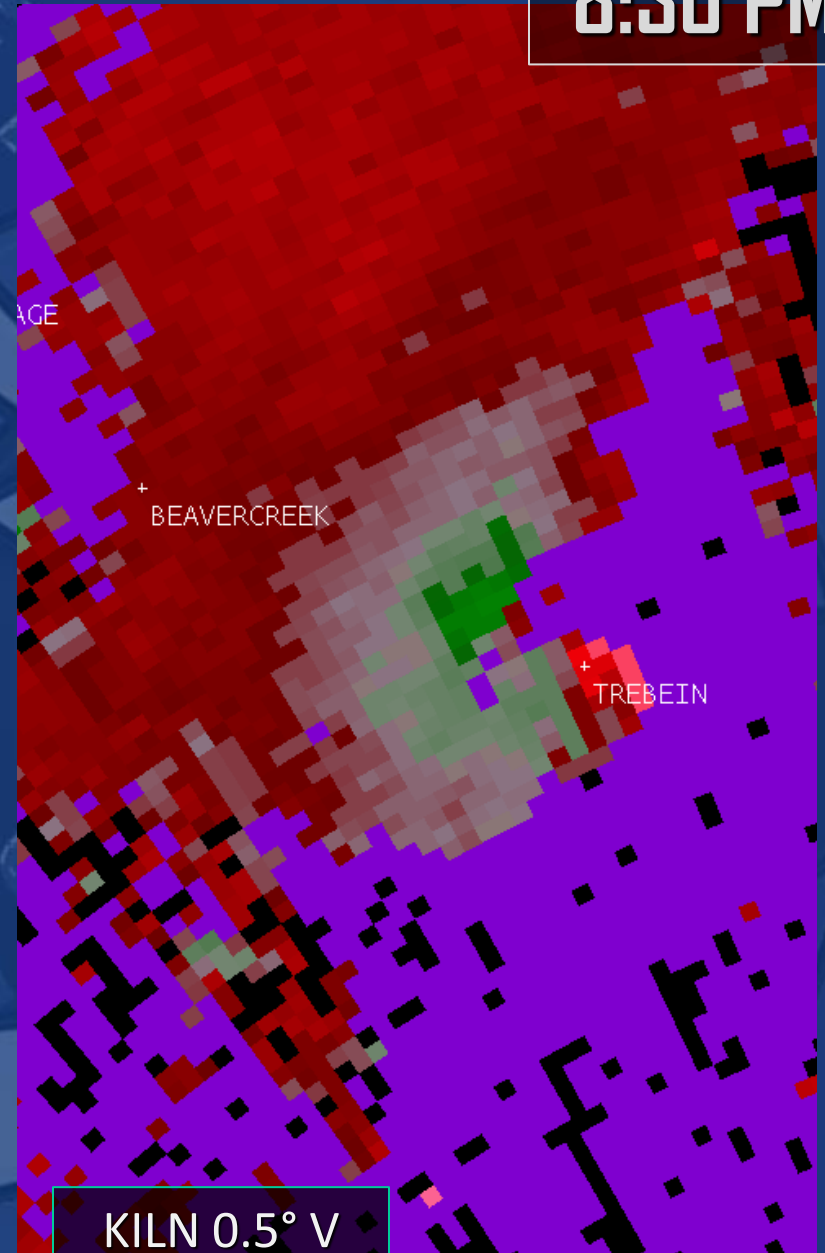
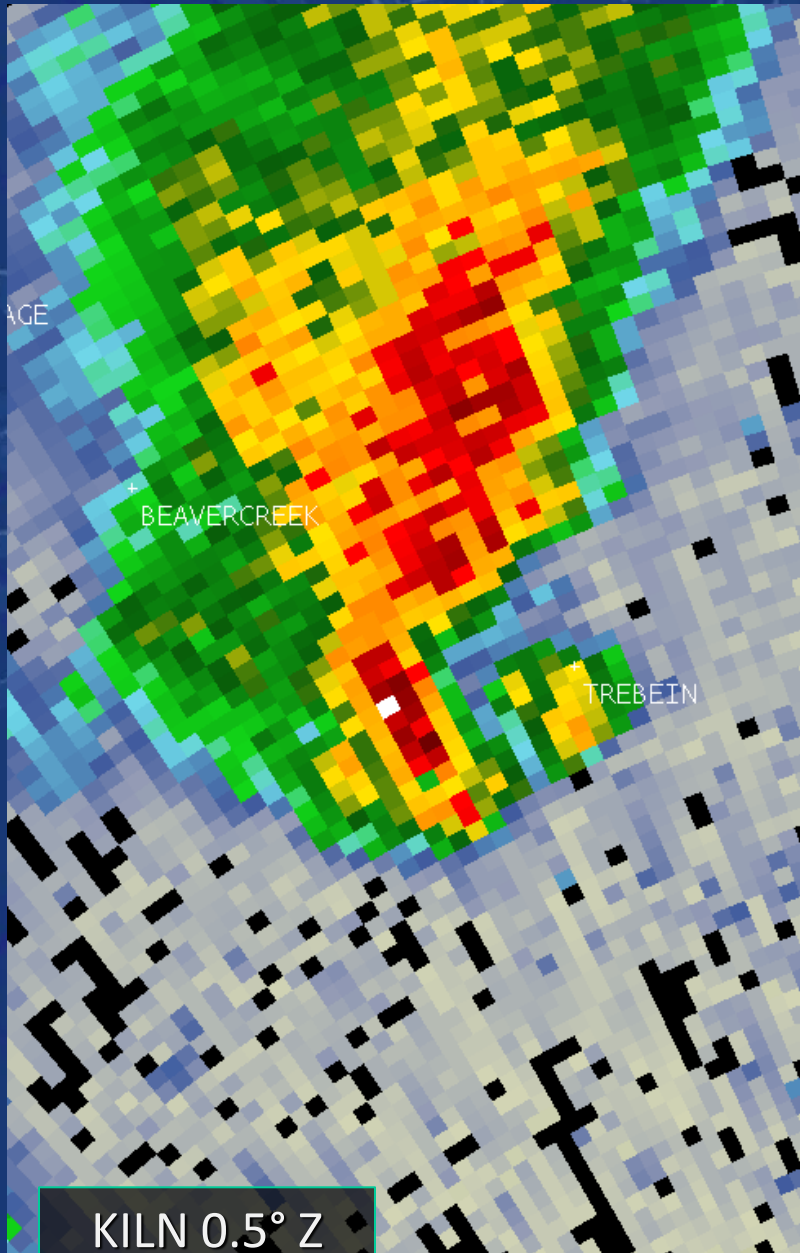
During: 24015G24KT

After: 14003KT

#2: Beavercreek Twp

May 24, 2017

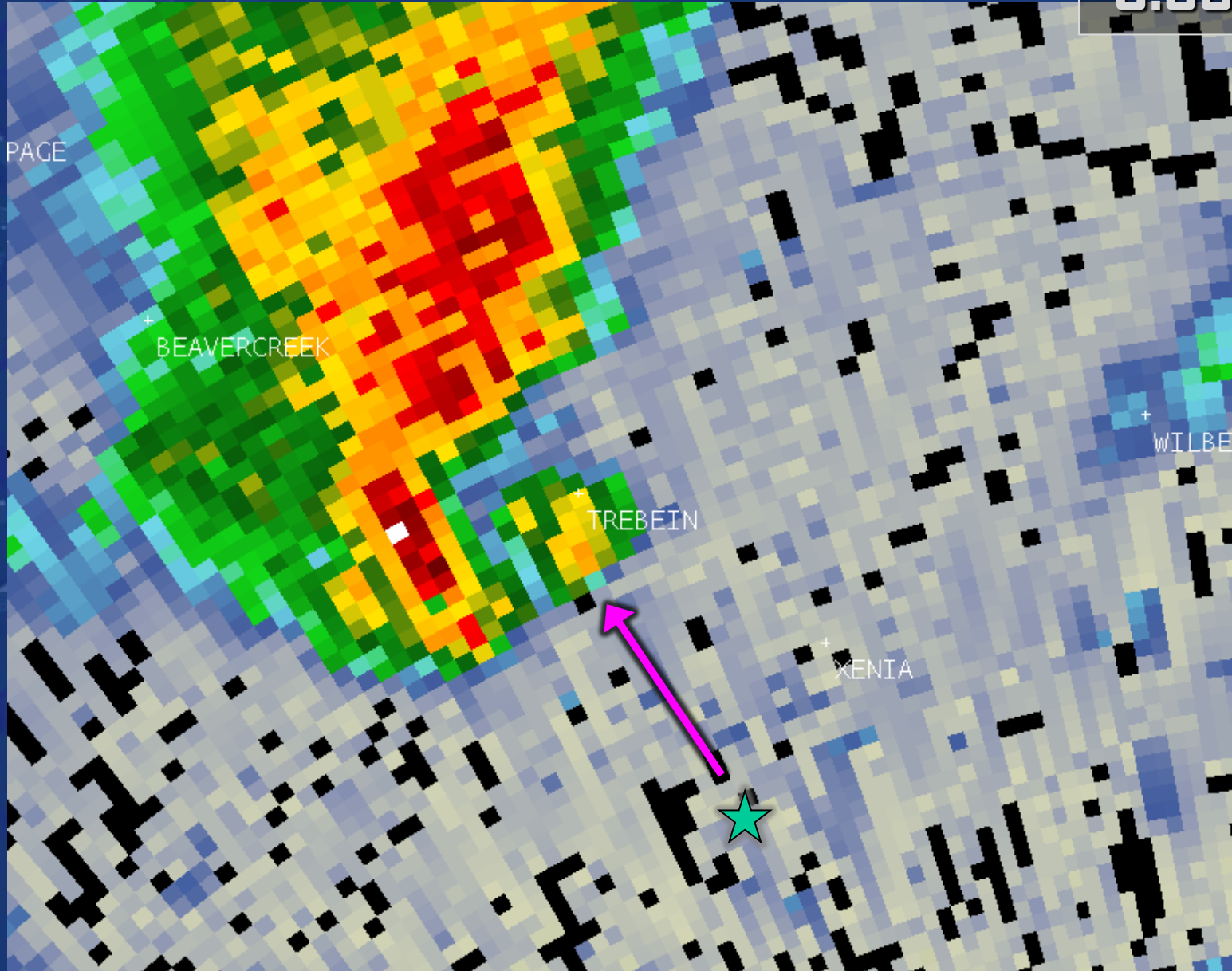
8:30 PM



#2: Beavercreek Twp

May 24, 2017

8:30 PM



#2: Beavercreek Twp

May 24, 2017

8:30 PM

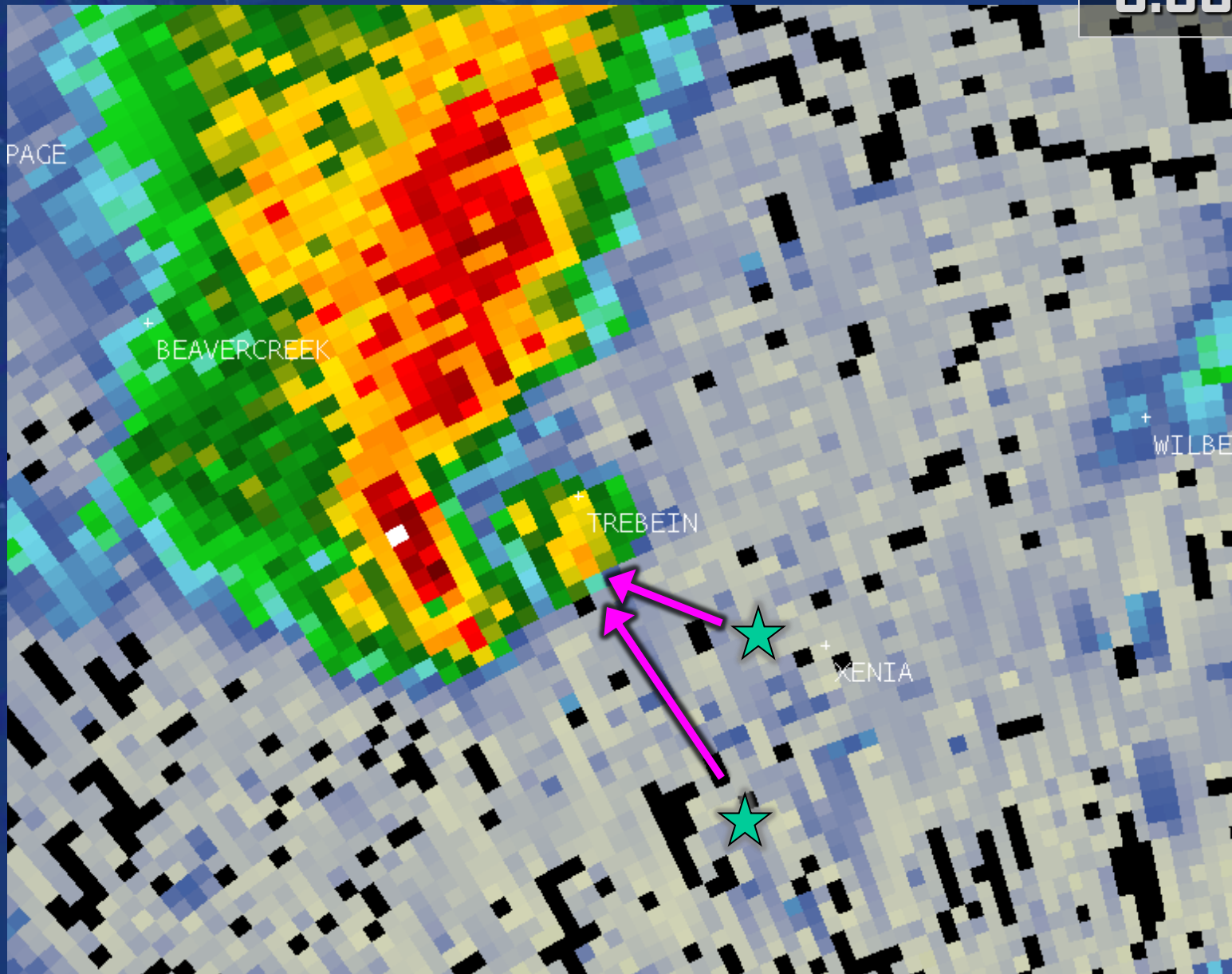


Julio Miranda

#2: Beavercreek Twp

May 24, 2017

8:30 PM



#2: Beavercreek Twp

May 24, 2017

8:30 PM



David Wilson

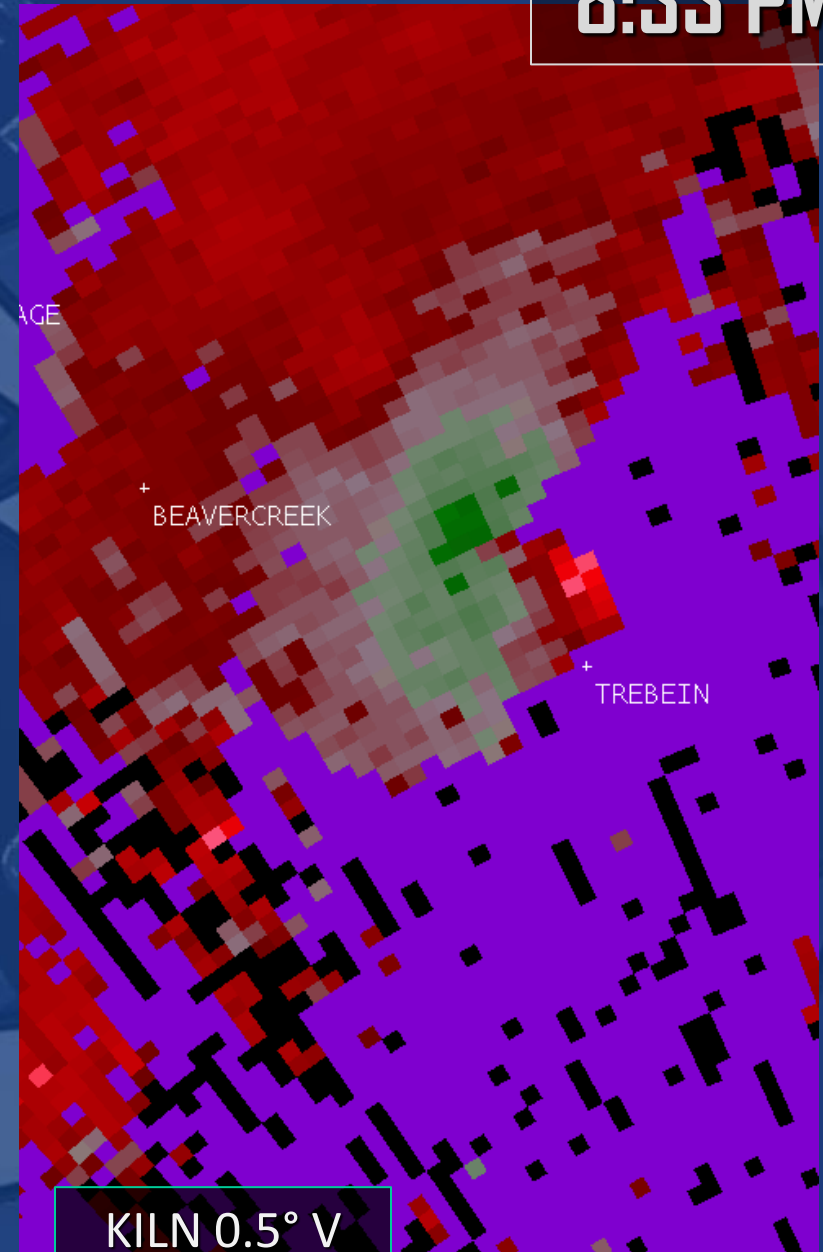
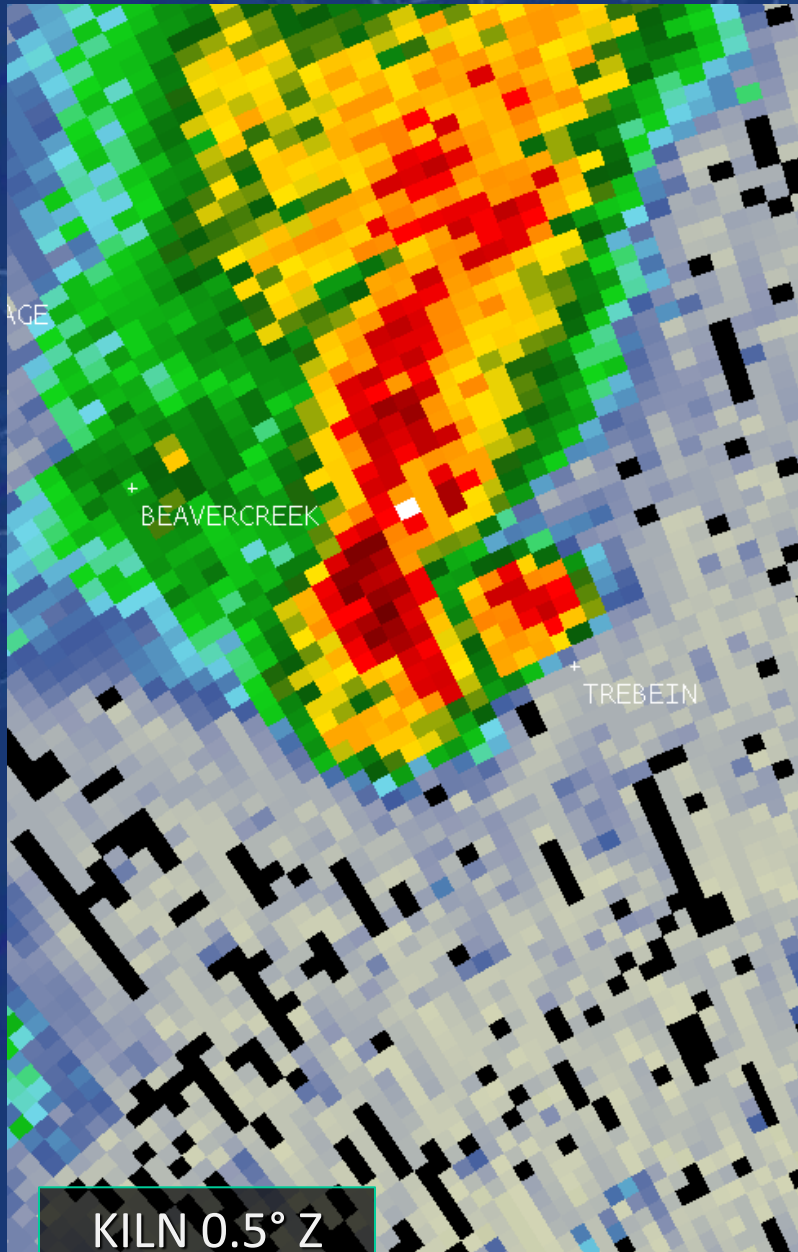


Janese Brooks

#2: Beavercreek Twp

May 24, 2017

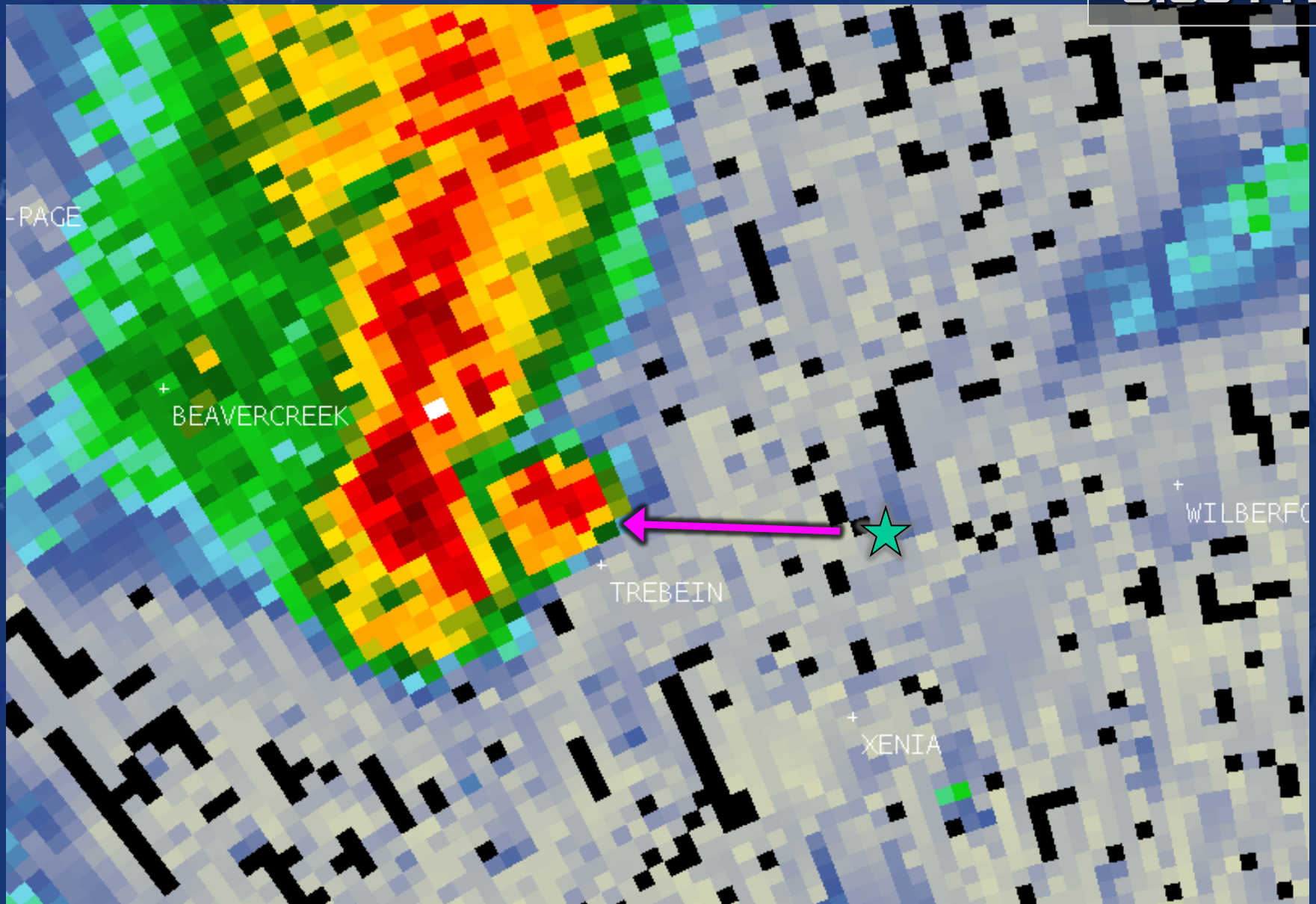
8:33 PM



#2: Beavercreek Twp

May 24, 2017

8:33 PM

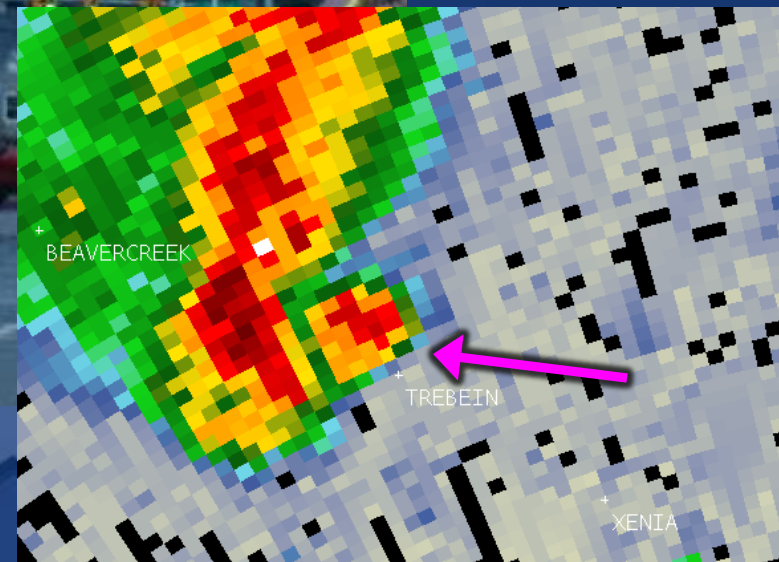


#2: Beavercreek Twp

May 24, 2017
8:33 PM



relayed by
Megan Damrell

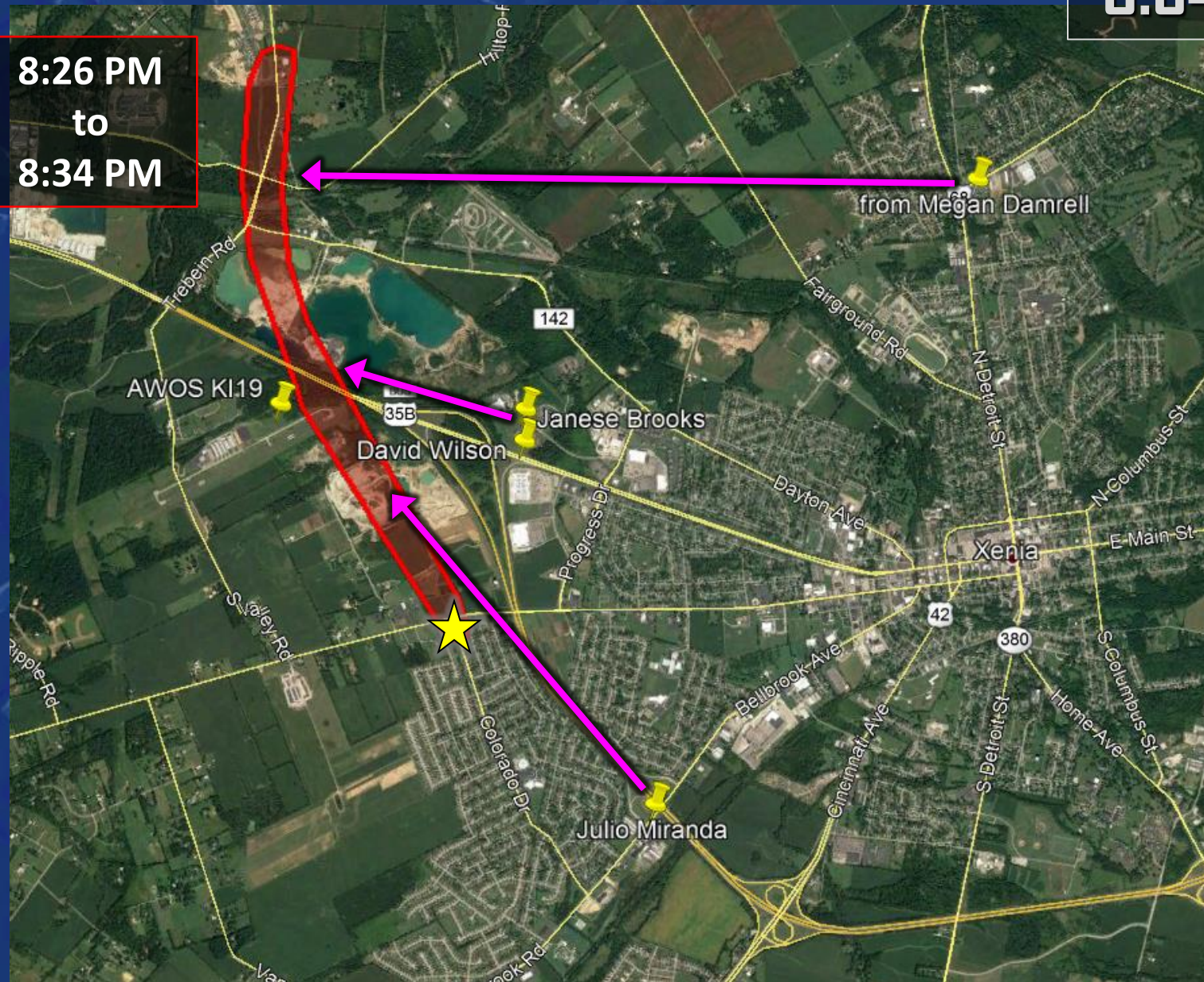


#2: Beaver Creek Twp

May 24, 2017

8:34 PM

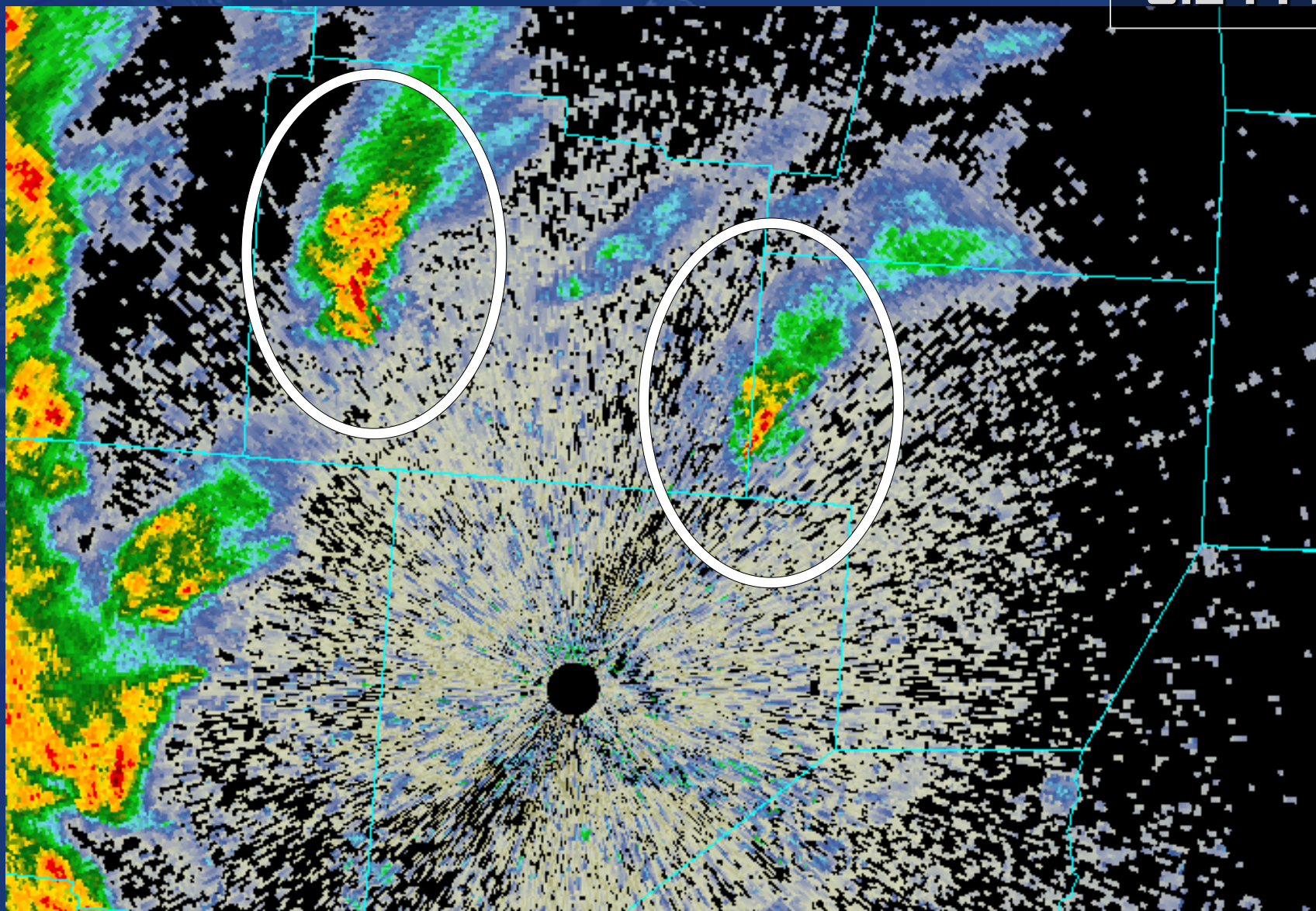
8:26 PM
to
8:34 PM



#3: Octa

May 24, 2017

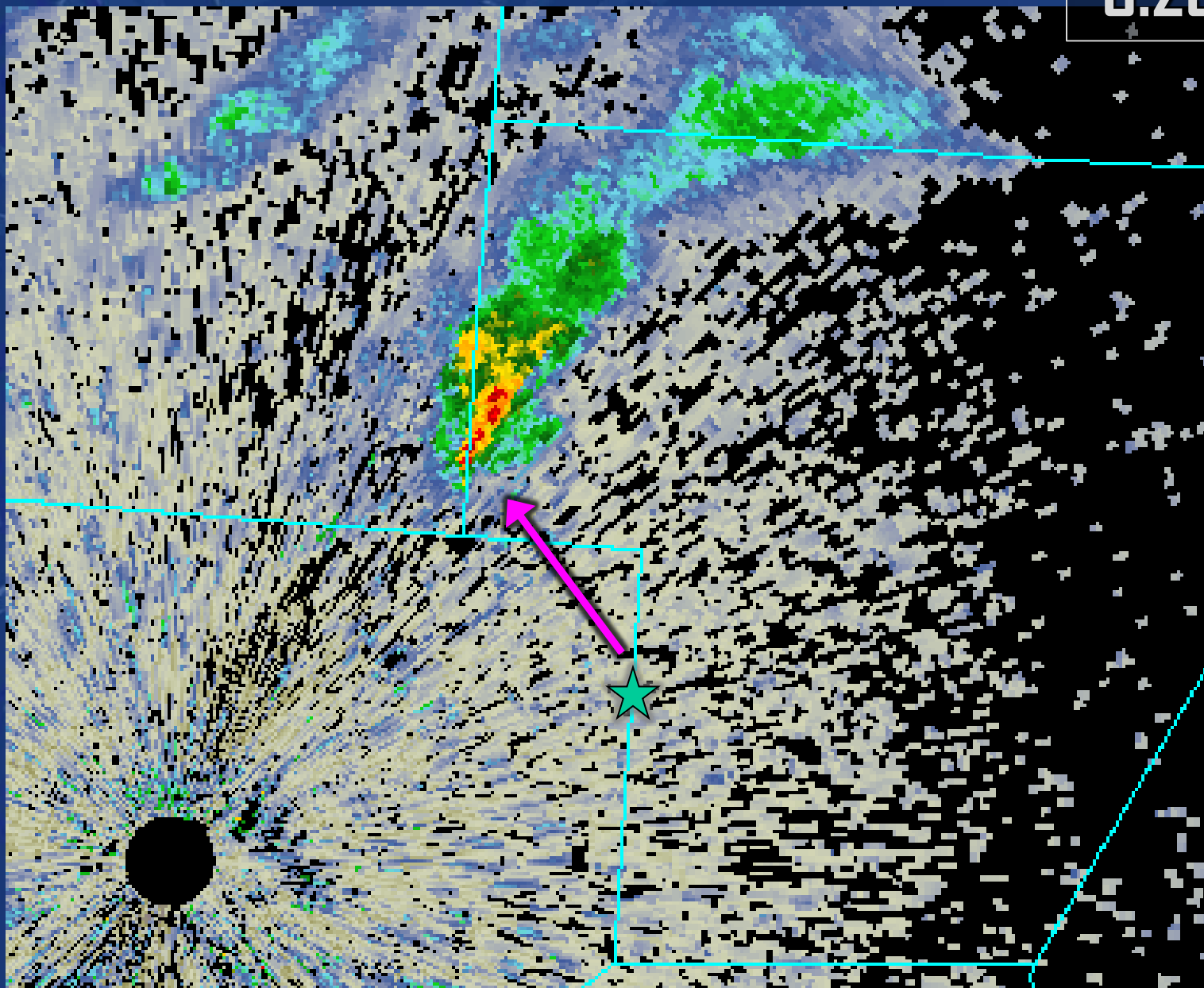
8:24 PM



#3: Octa

May 24, 2017

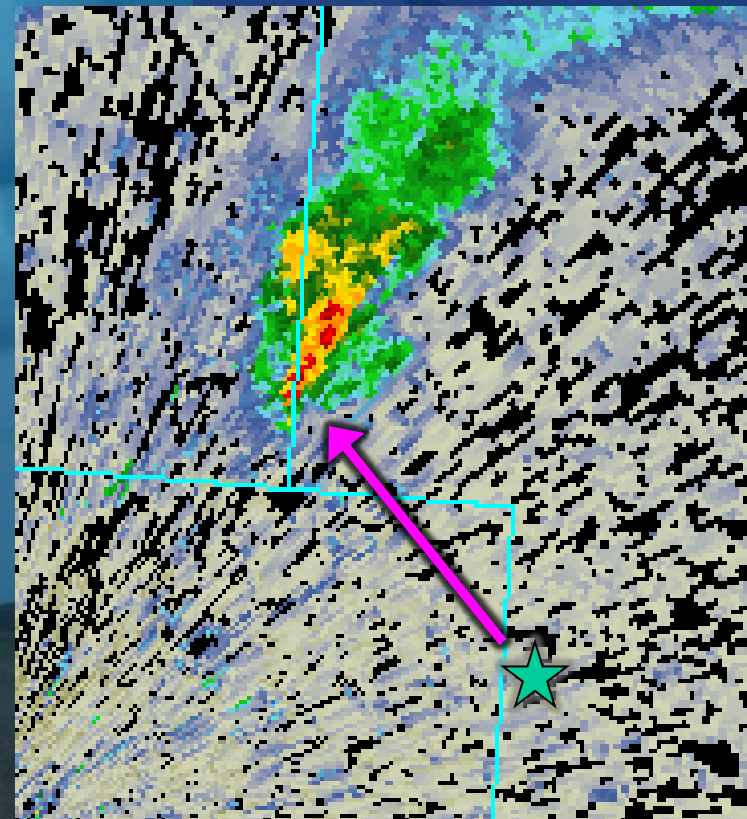
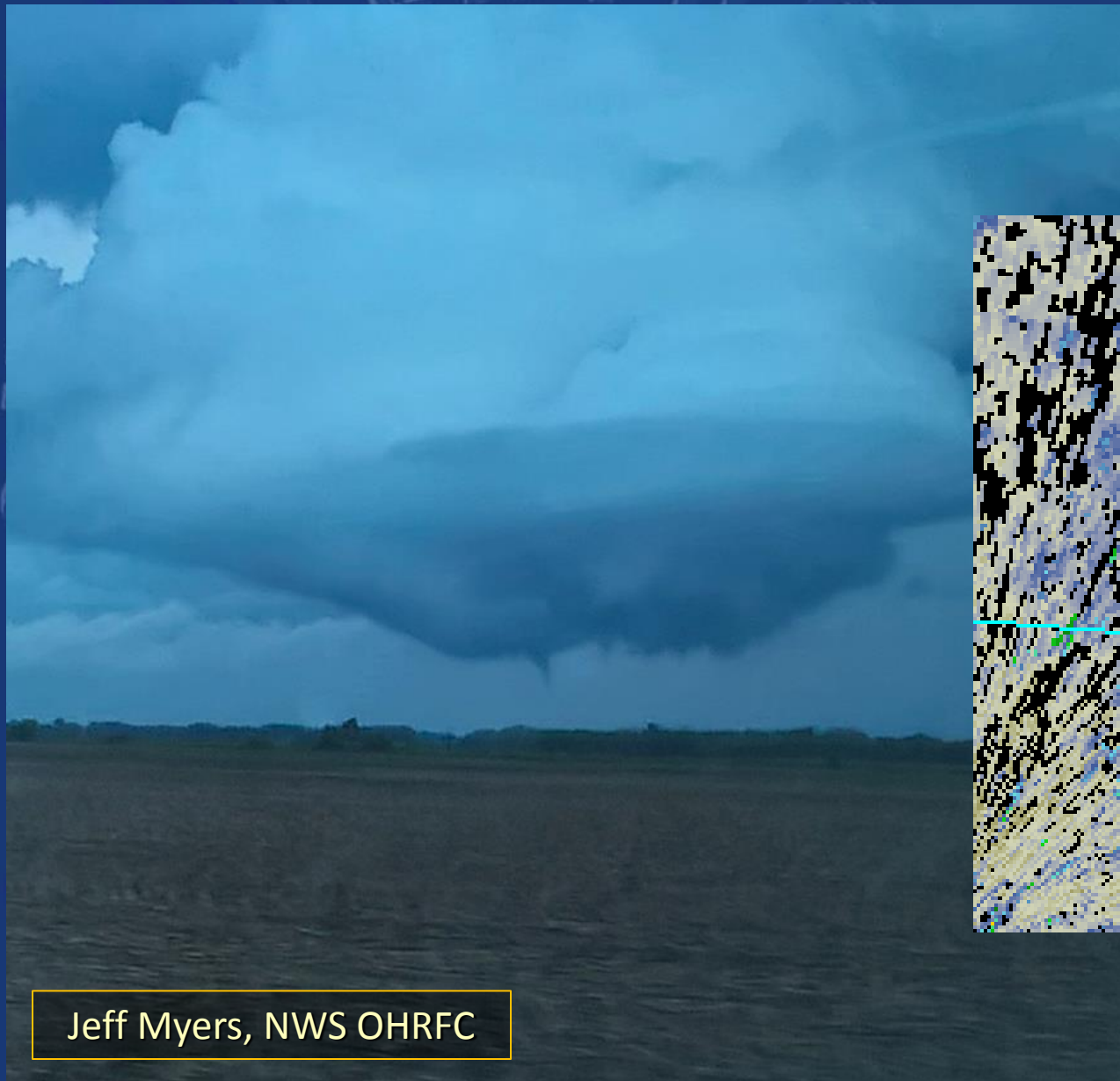
8:25 PM



#3: Octa

May 24, 2017

8:25 PM



Jeff Myers, NWS OHRFC

#3: Octa

May 24, 2017

8:26 PM

Tornado Warning
Issued
(8:27 PM)

ROSEM00R

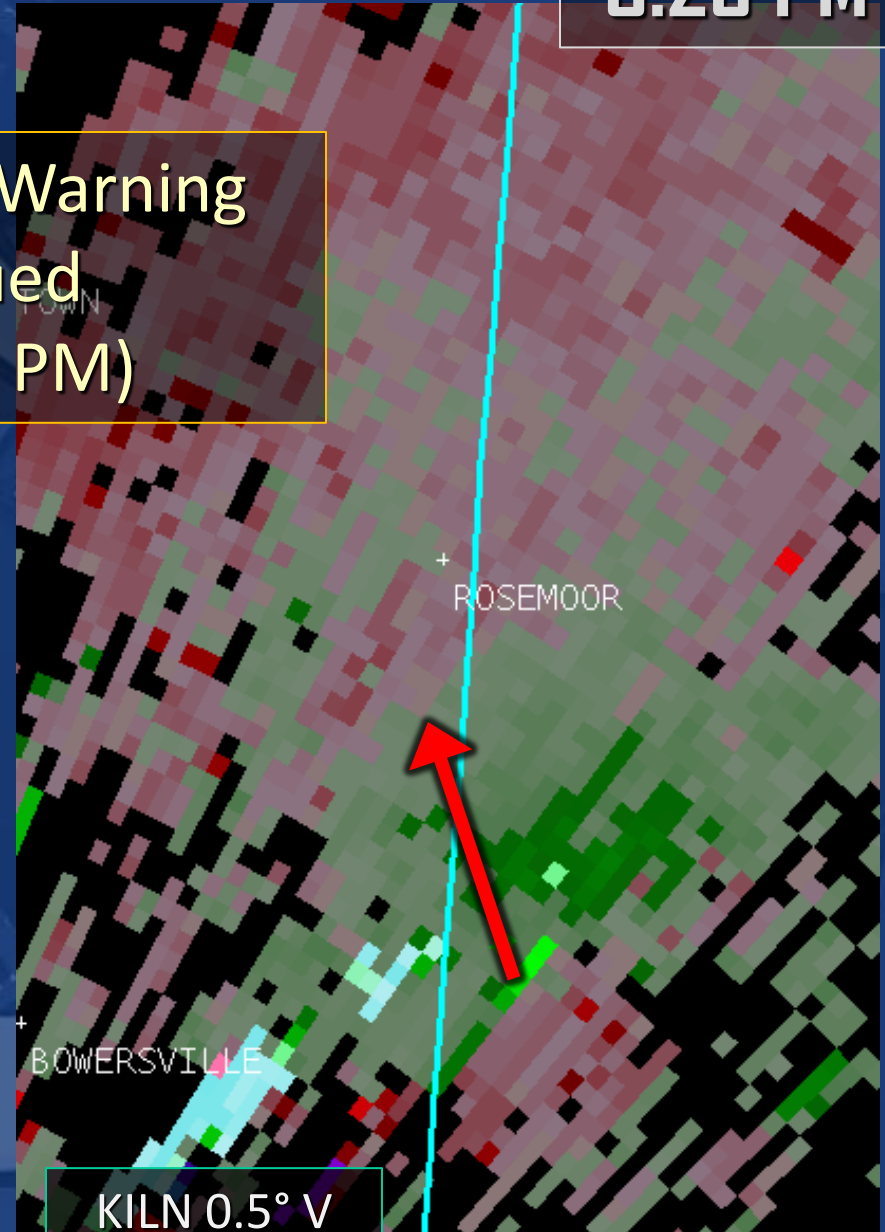
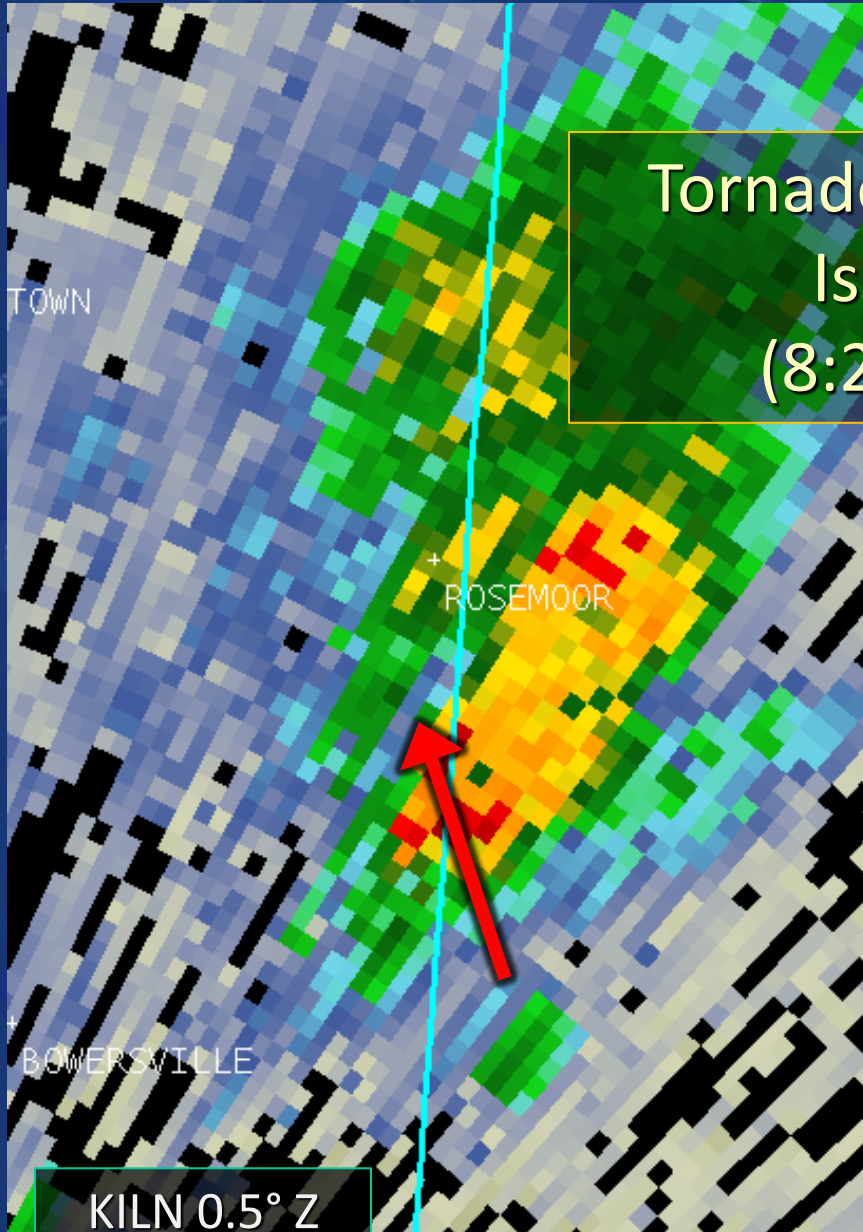
BOWERSVILLE

KILN 0.5° Z

ROSEM00R

BOWERSVILLE

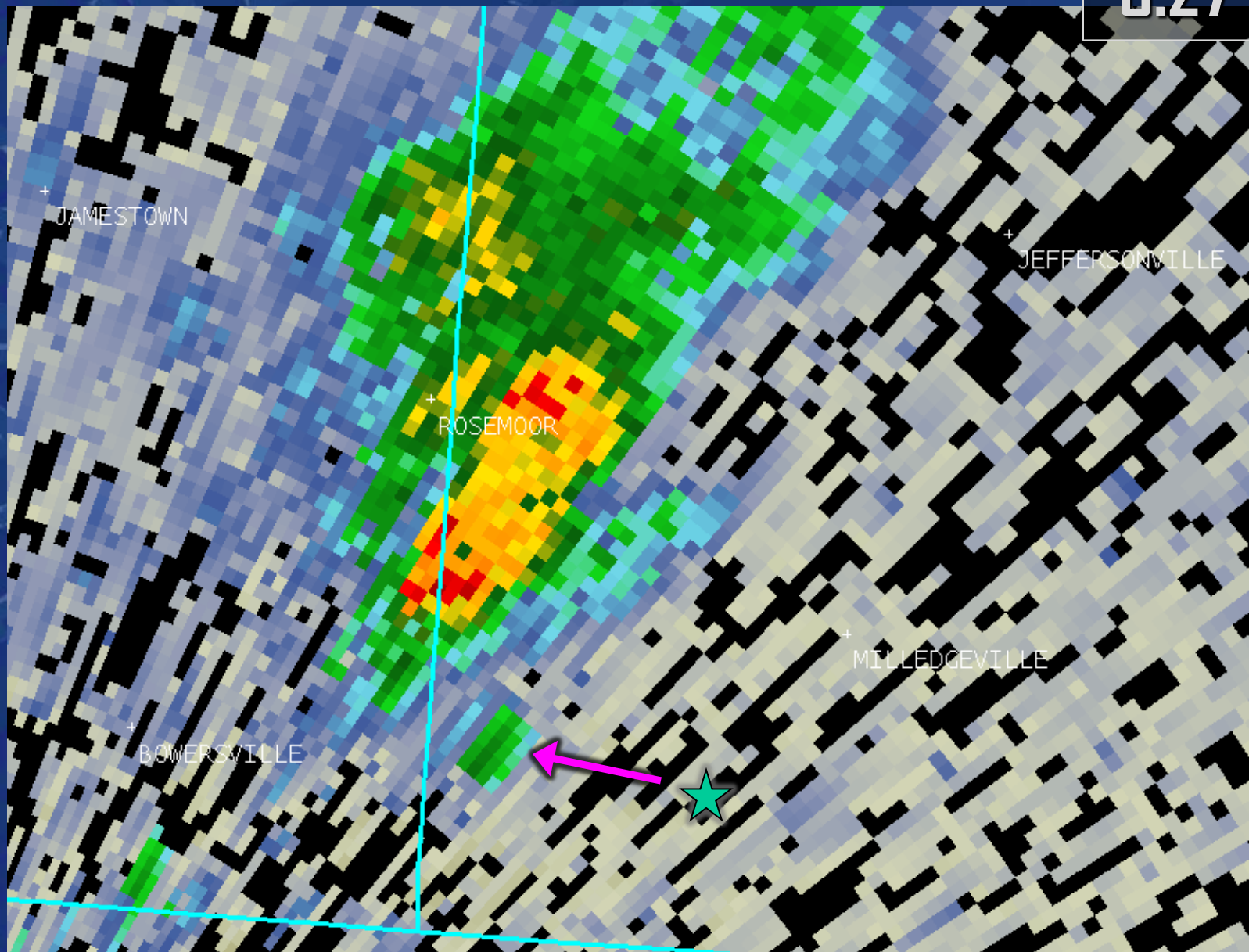
KILN 0.5° V



#3: Octa

May 24, 2017

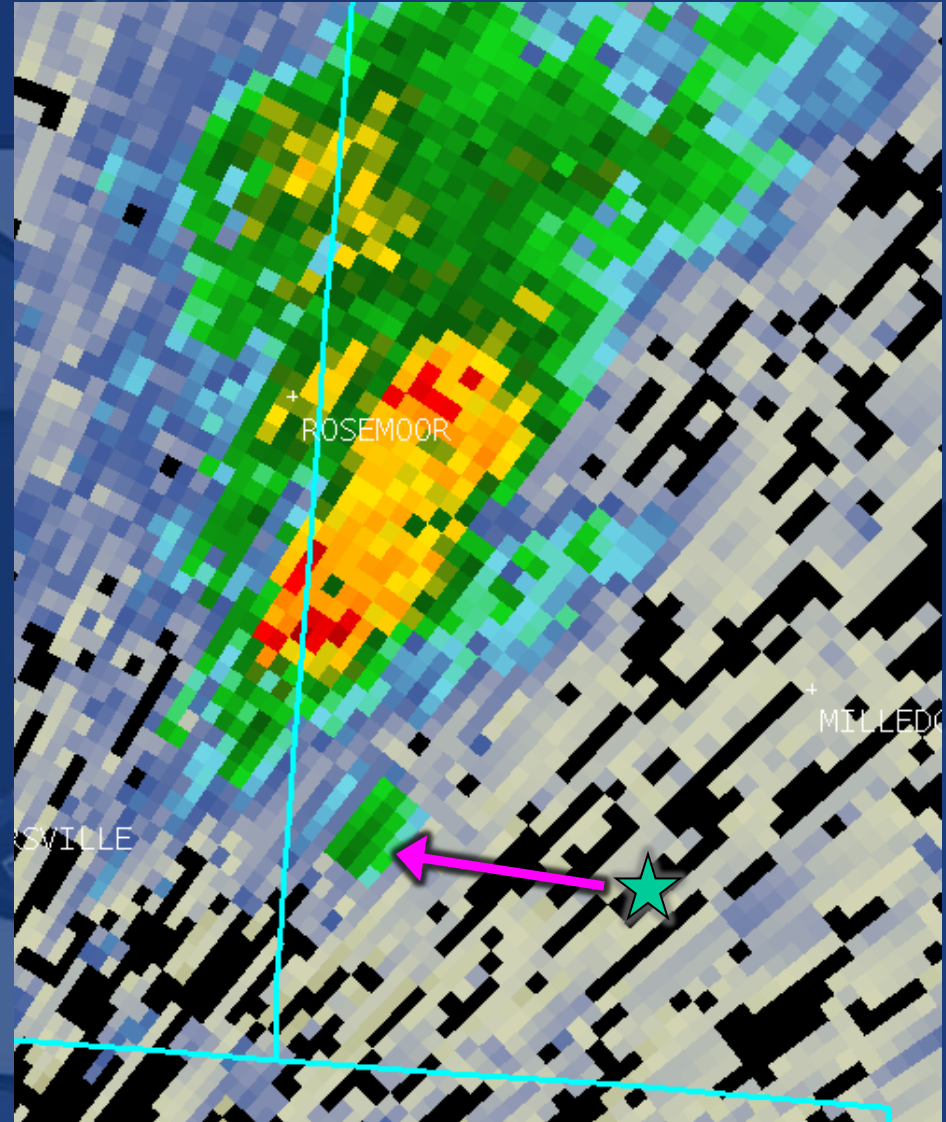
8:27 PM



#3: Octa

May 24, 2017

8:27 PM



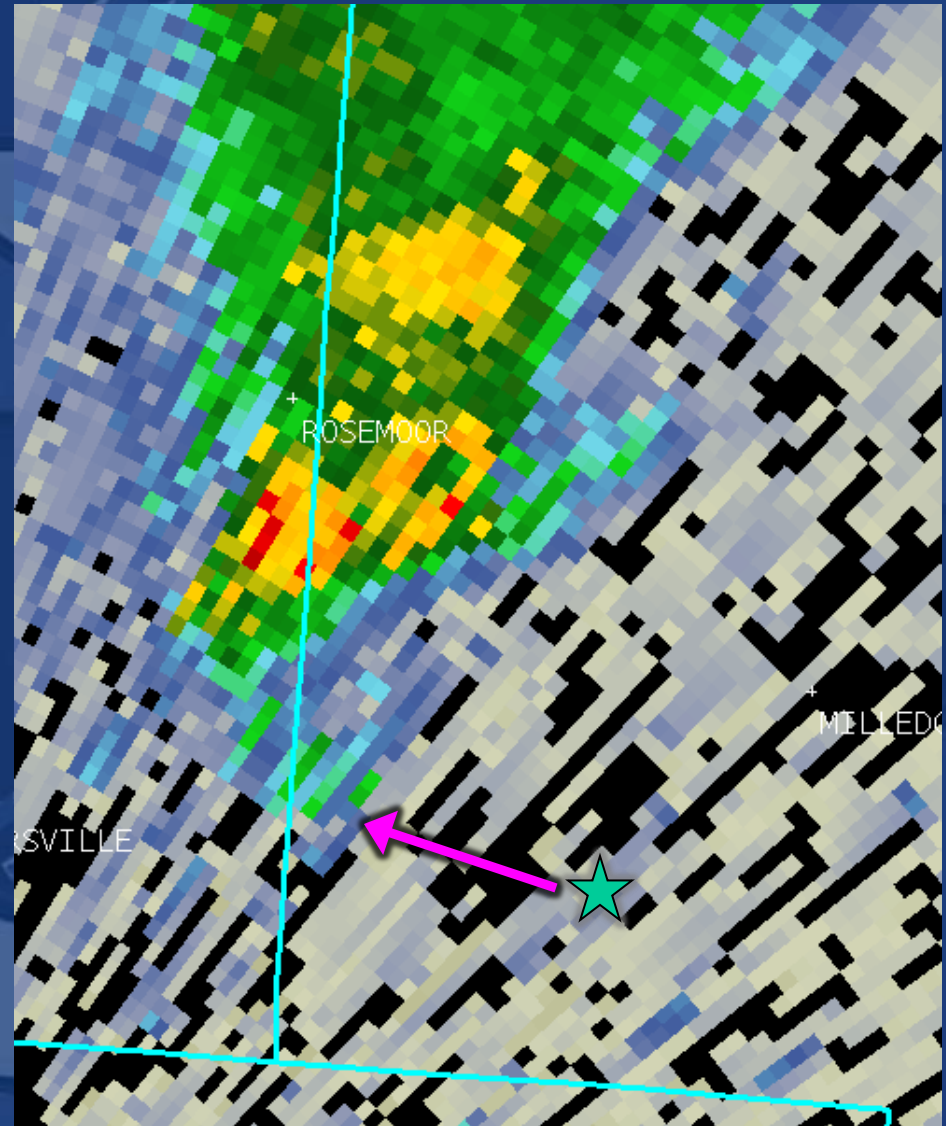
#3: Octa

May 24, 2017

8:28 PM



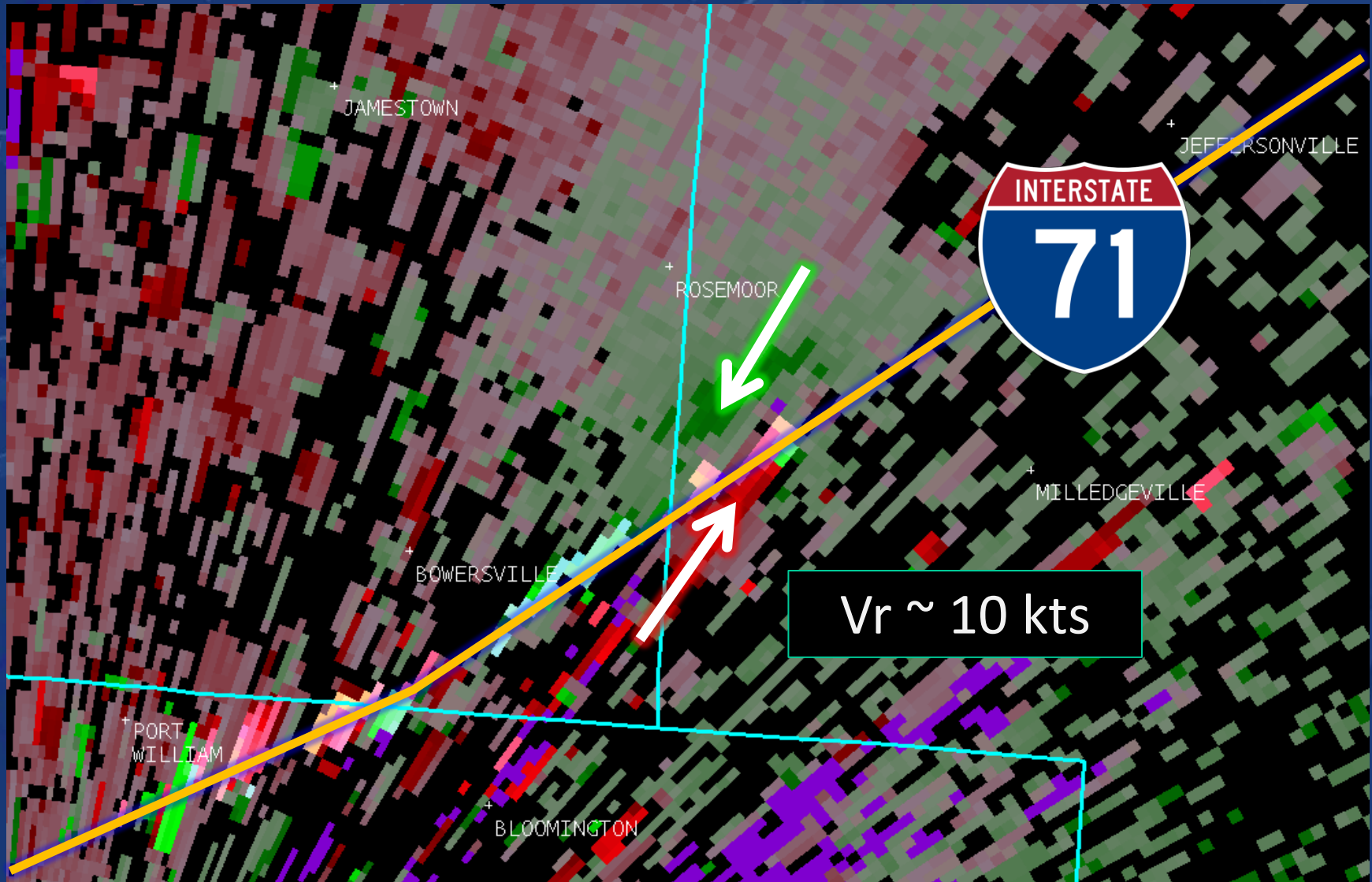
Jacklynn Wisecup



#3: Octa

May 24, 2017

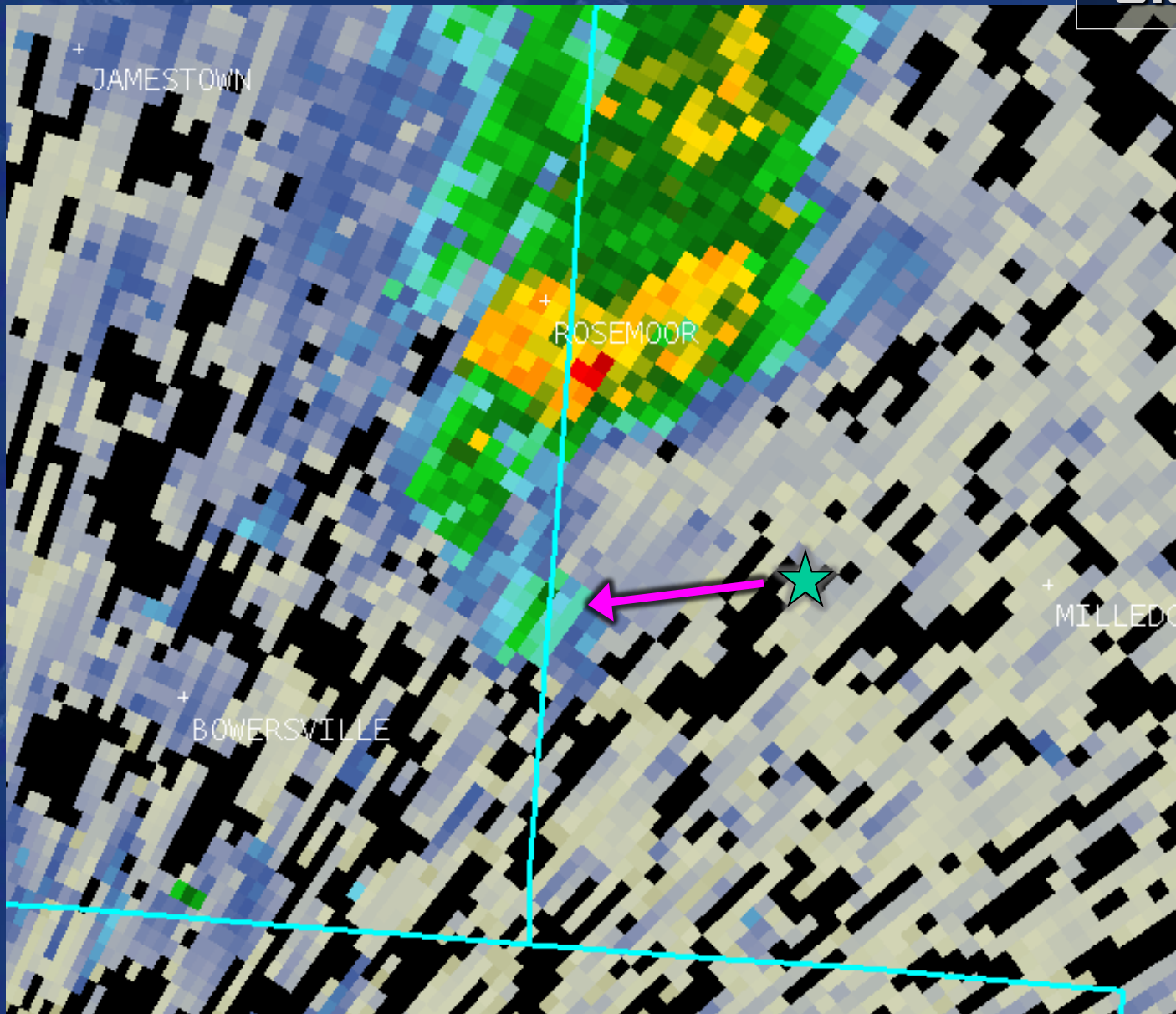
8:28 PM



#3: Octa

May 24, 2017

8:30 PM



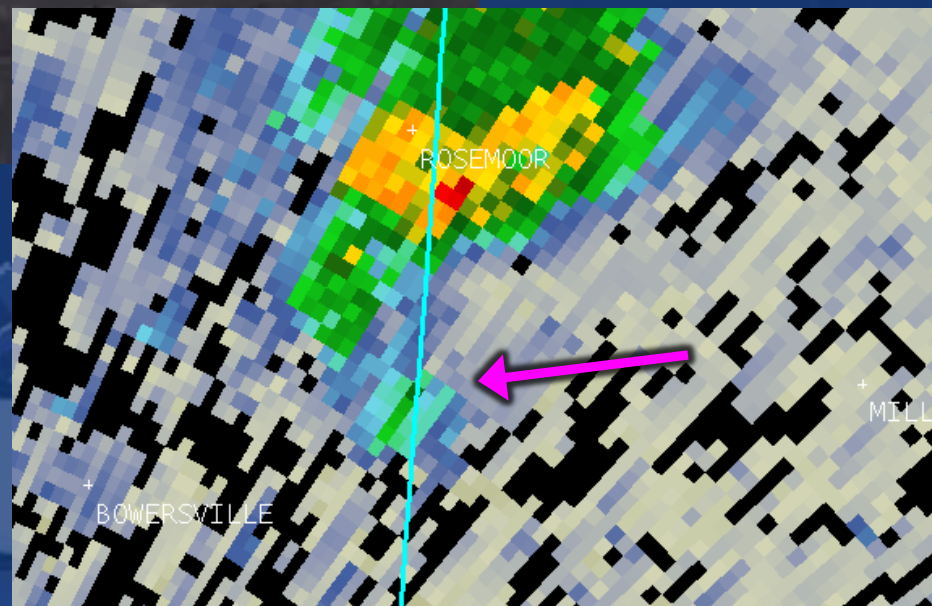
#3: Octa

May 24, 2017

8:30 PM



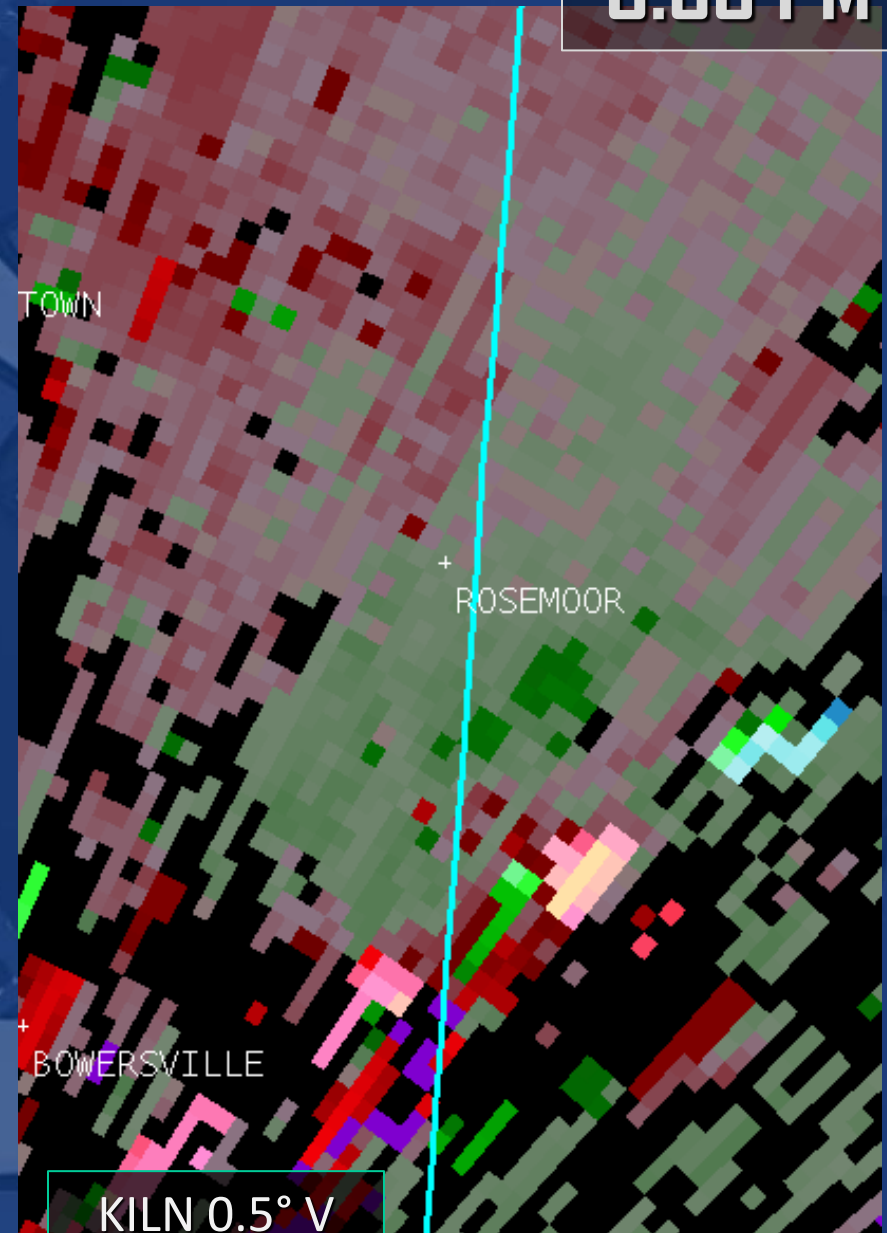
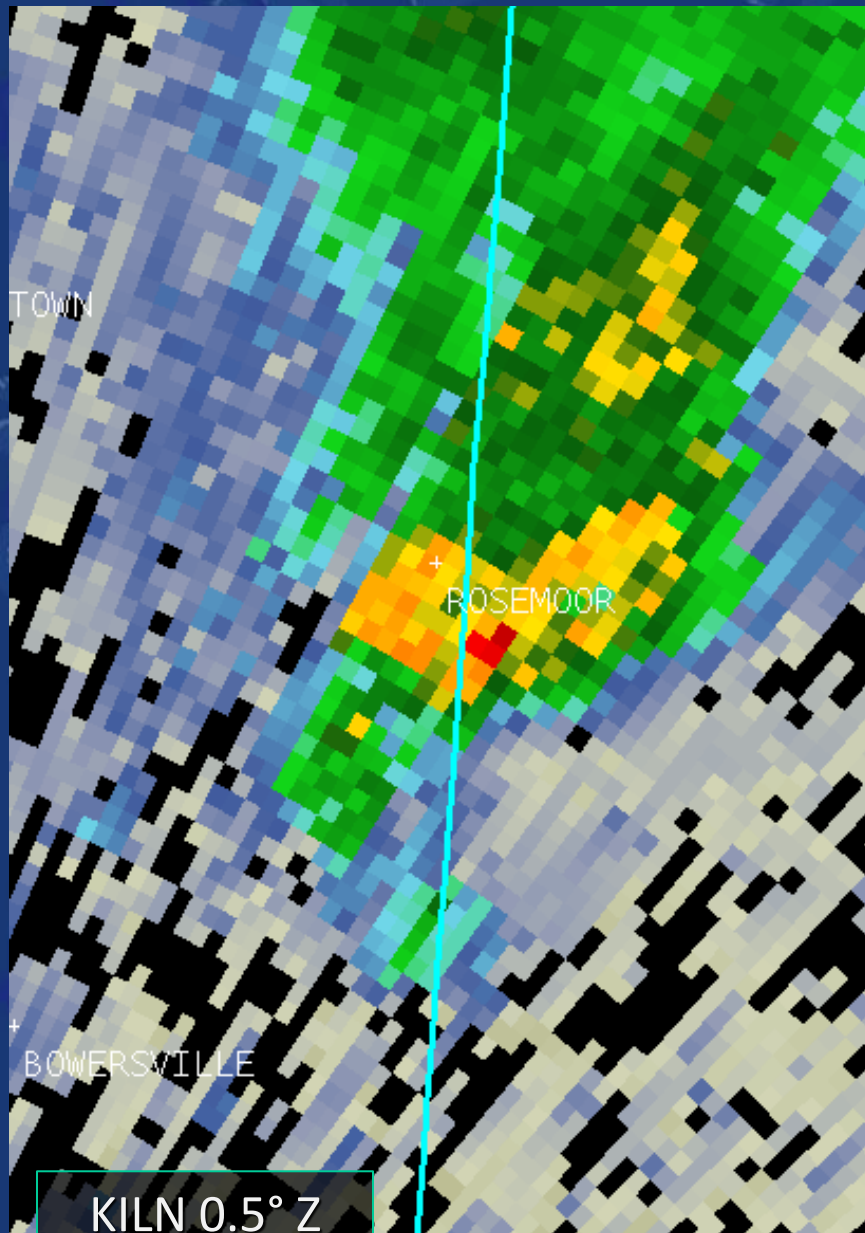
Andy Dill



#3: Octa

May 24, 2017

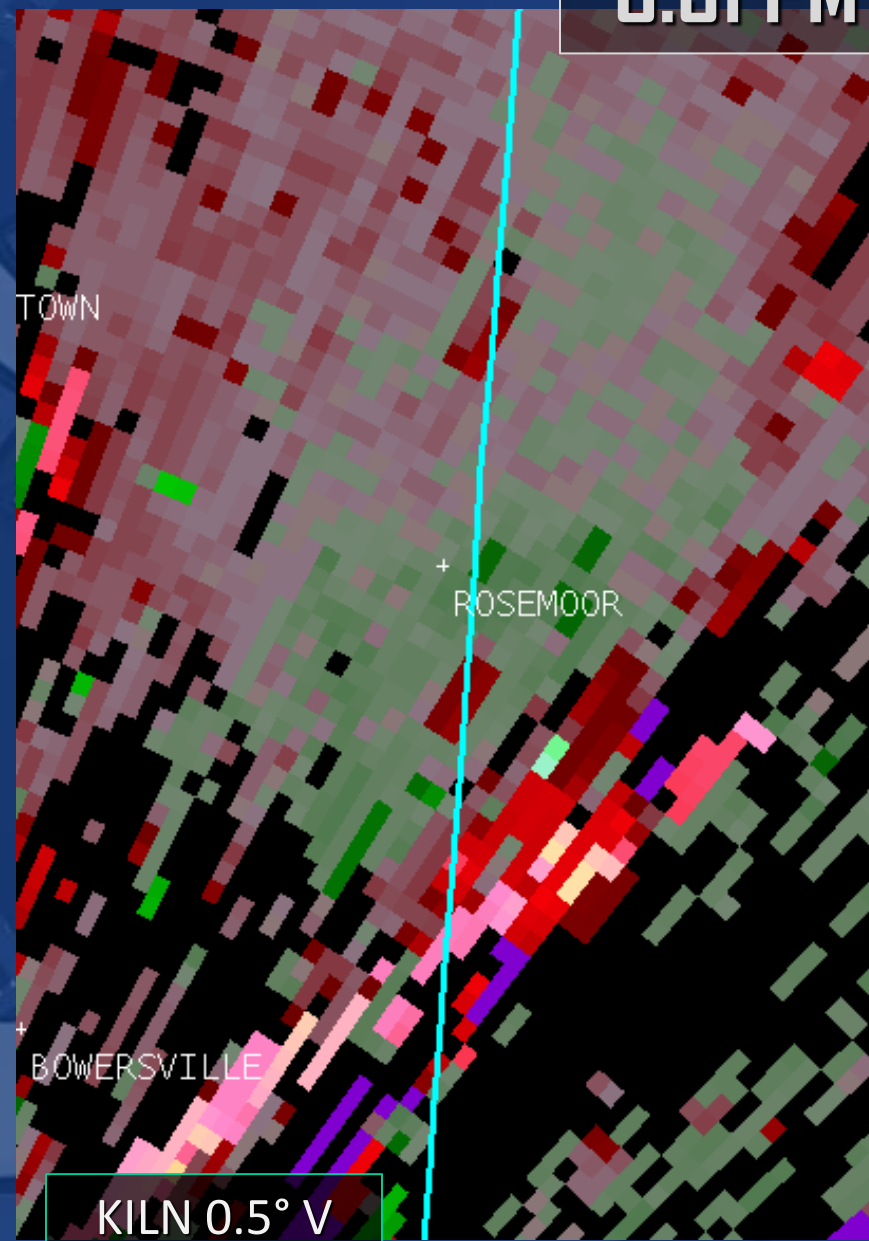
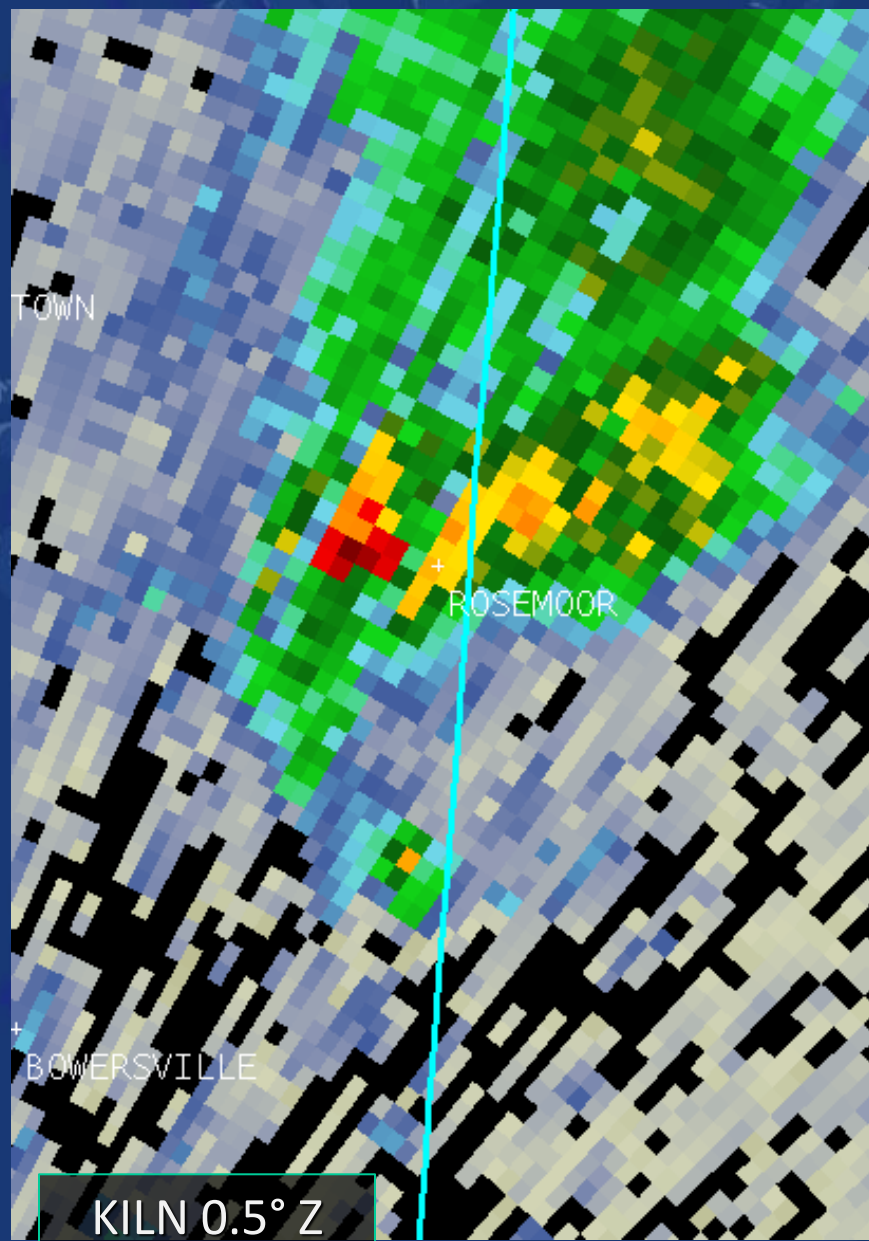
8:30 PM



#3: Octa

May 24, 2017

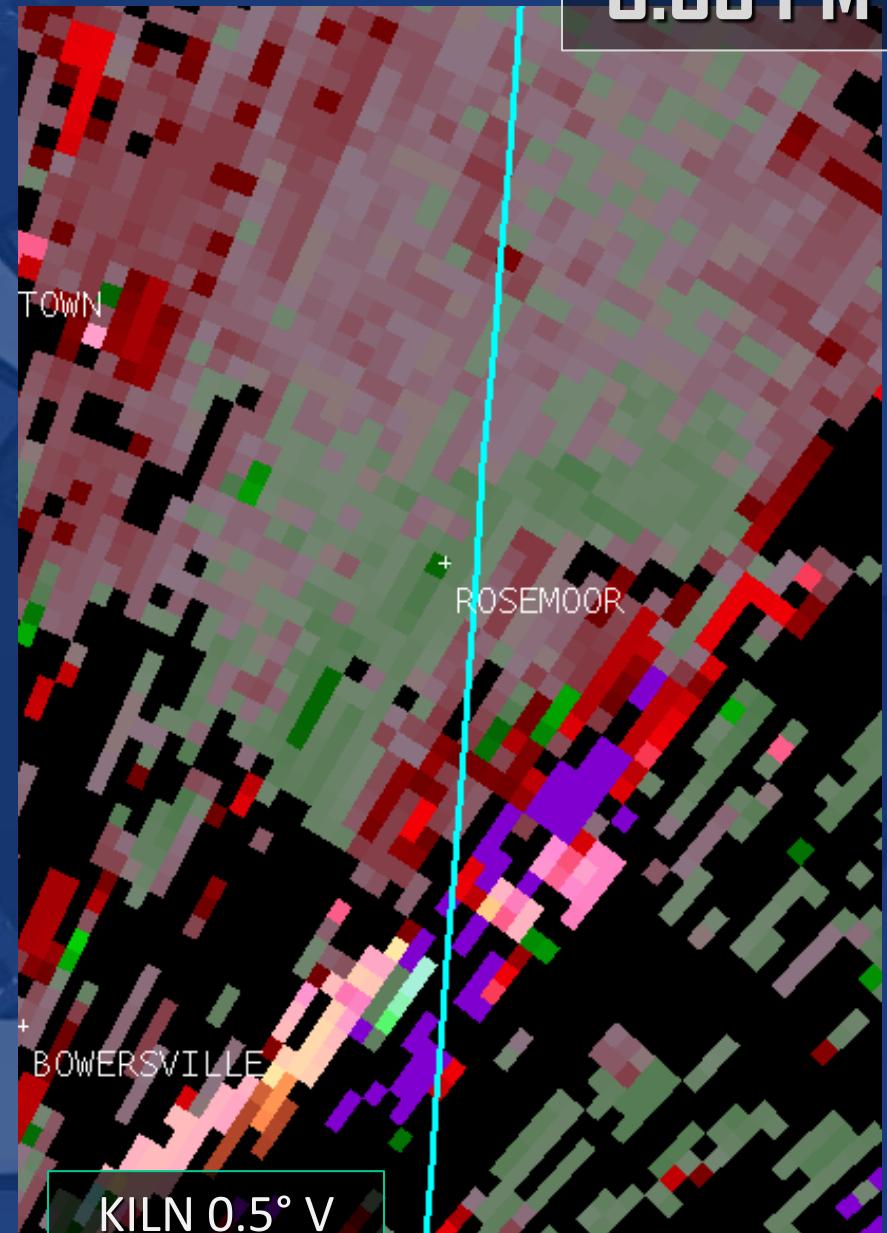
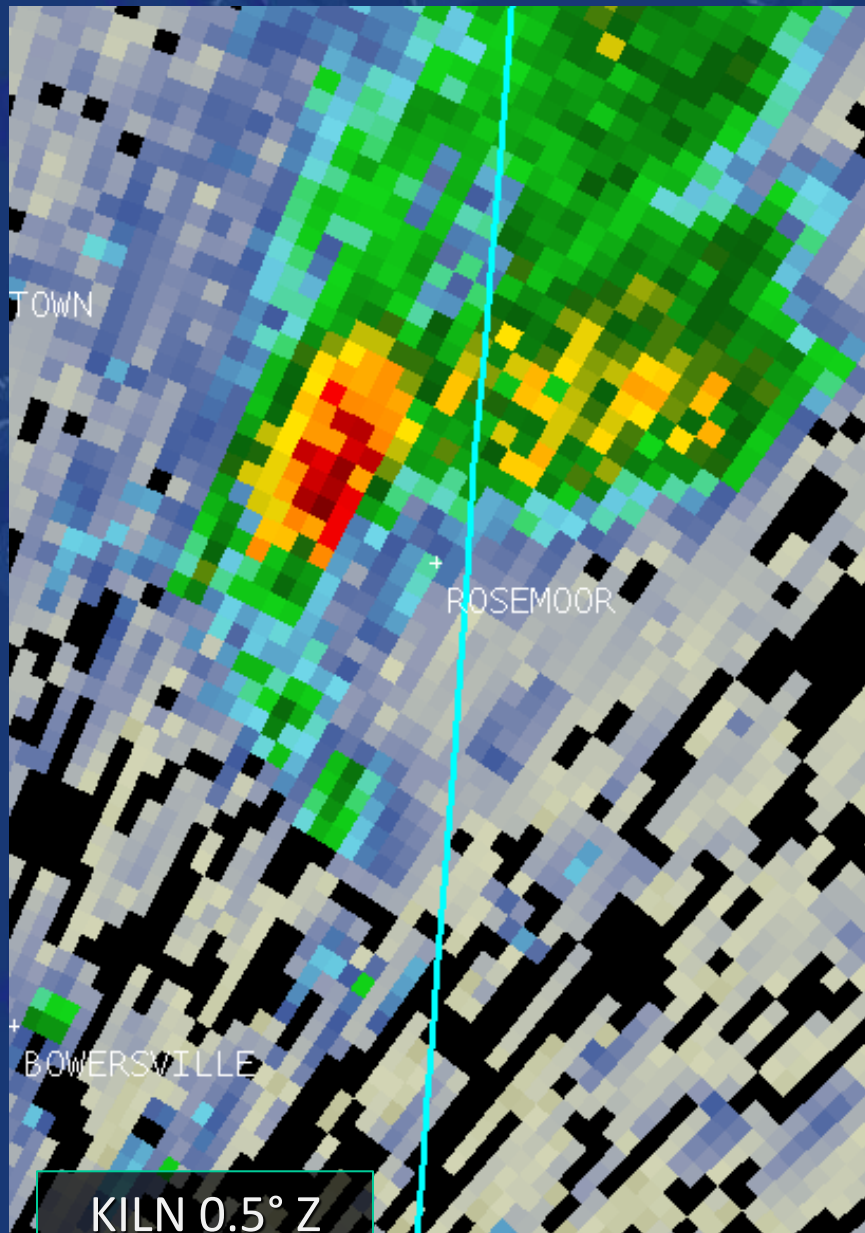
8:31 PM



#3: Octa

May 24, 2017

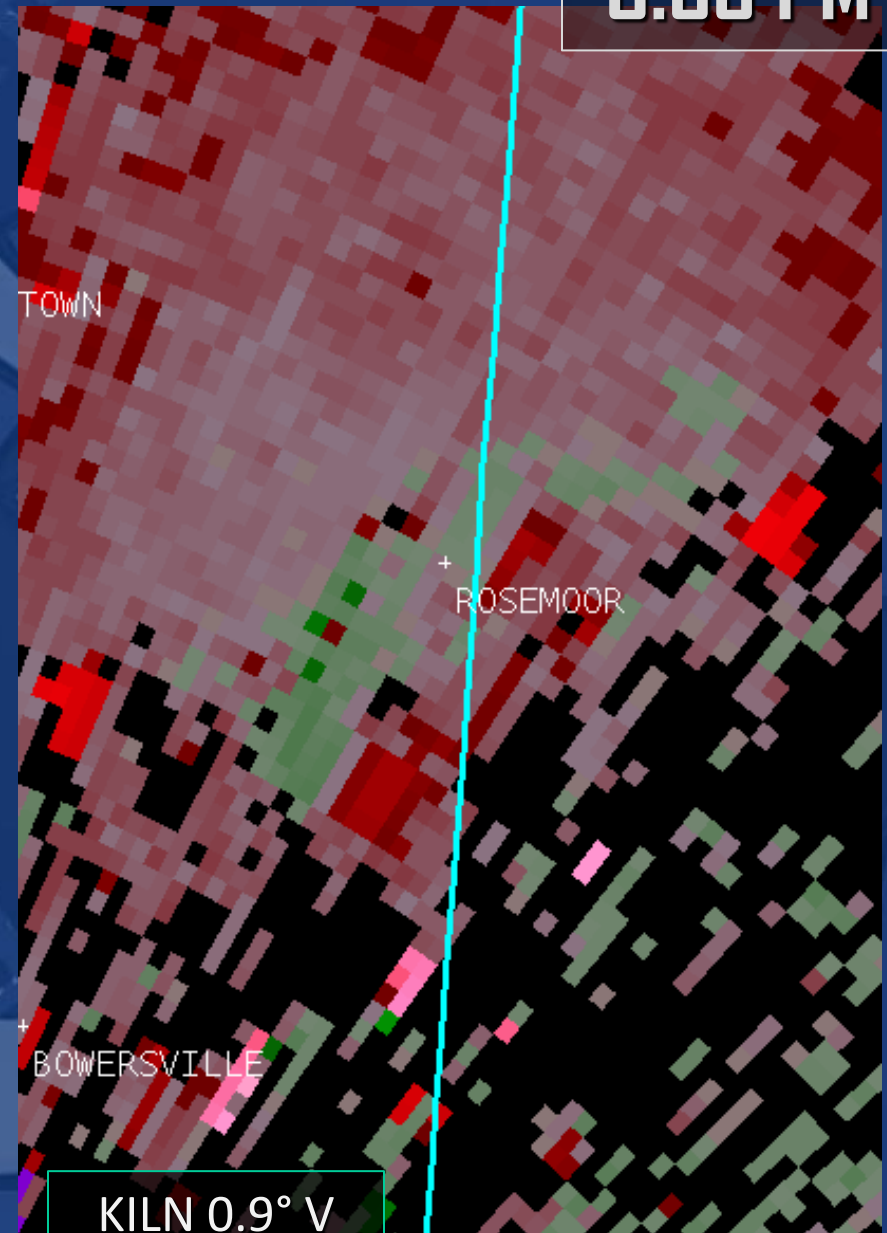
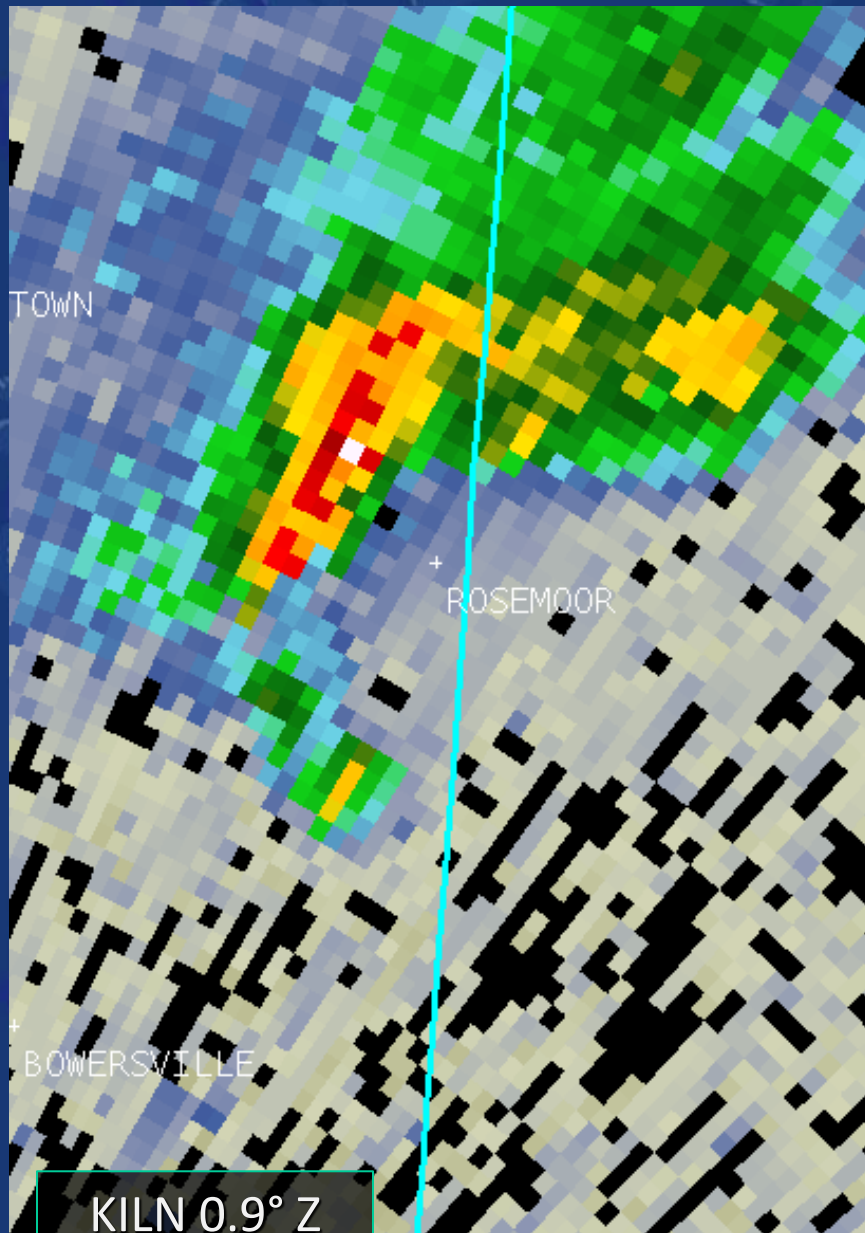
8:33 PM



#3: Octa

May 24, 2017

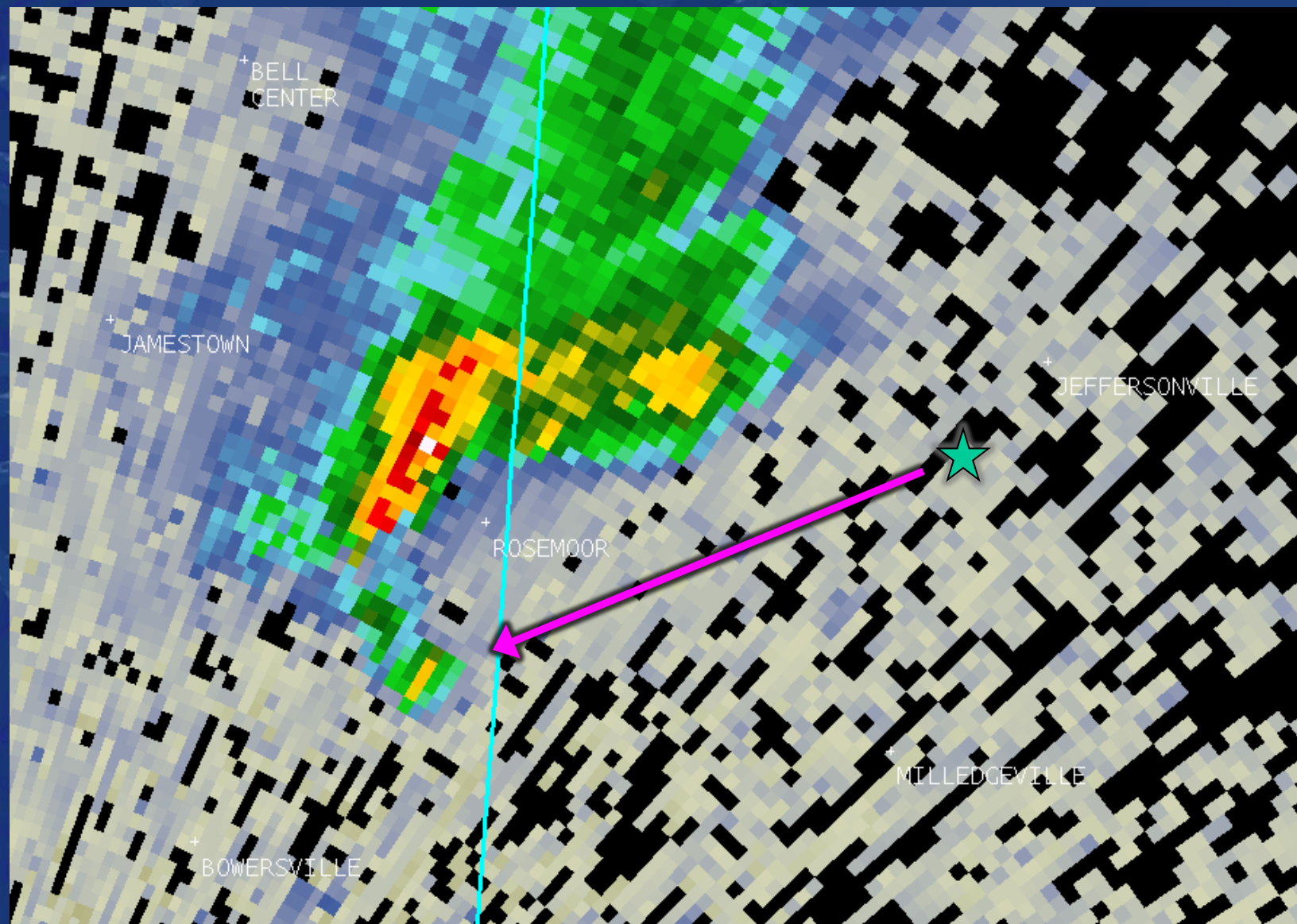
8:33 PM



#3: Octa

May 24, 2017

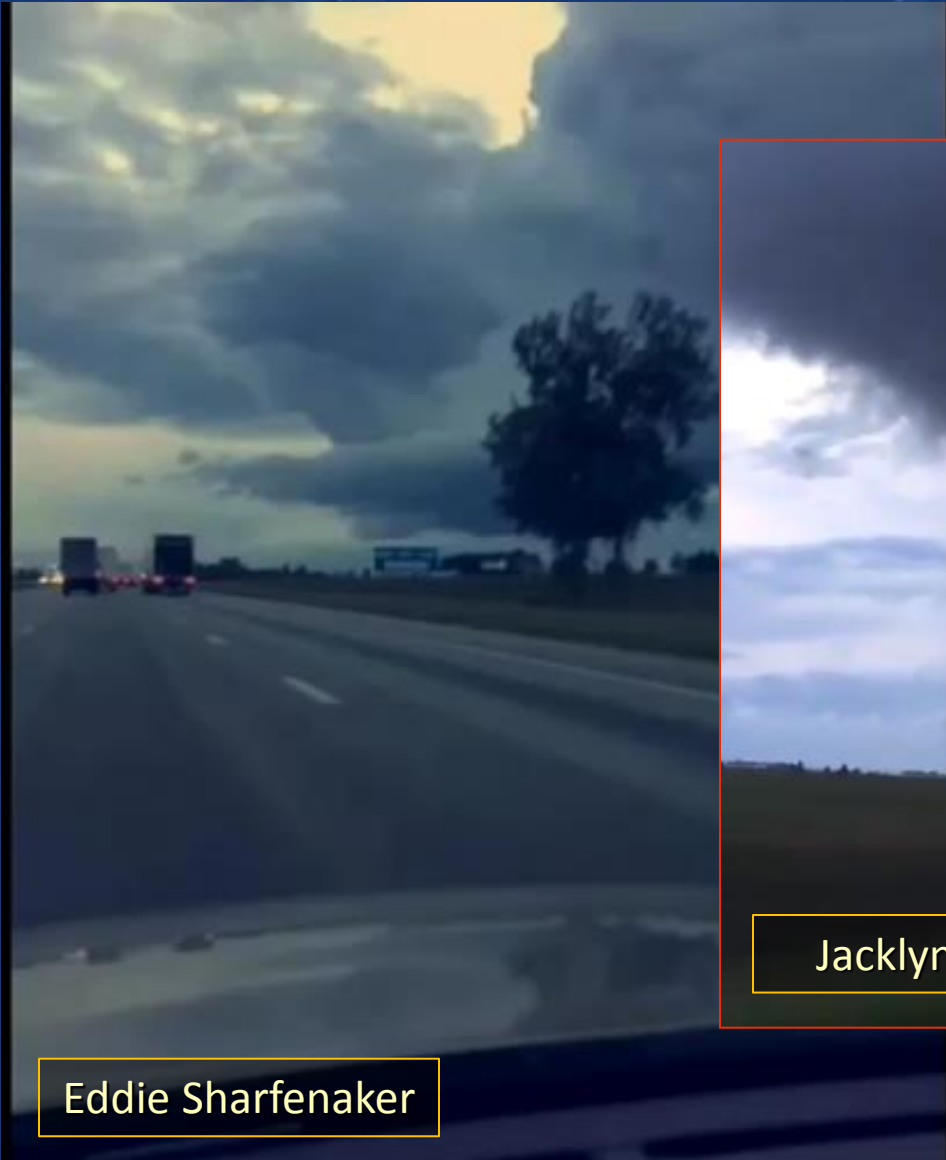
8:33 PM



#3: Octa

May 24, 2017

8:33 PM



Eddie Sharfenaker



Jacklynn Wisecup



#3: Octa

May 24, 2017

8:33 PM



PFTCommenter

@PFTCommenter

Follow



This tornado has terrble pad level. Im betting on Vanny Woodhead [#GritWeek2017](#)



8:33 PM - 24 May 2017

332 Retweets 3,531 Likes



#3: Octa

May 24, 2017

8:33 PM



Big Cat

@BarstoolBigCat

Follow

Alright here we go #GritWeek17
#StormChasers



0:12 74.7K views

8:47 PM - 24 May 2017

149 Retweets 1,390 Likes



#3: Octa

May 24, 2017

8:33 PM



@BarstoolBigCat

#3: Octa

May 24, 2017

8:33 PM



NWS Wilmington OH

@NWSILN

Following



Replying to @PFTCommenter

Can you please provide an approximate location for this photo and what direction you were looking? Thanks!

9:03 PM - 24 May 2017

17 Retweets 151 Likes



#3: Octa

May 24, 2017

8:33 PM



PFTCommenter

@PFTCommenter

Follow



Ohio. Looking up at sky

NWS Wilmington OH @NWSILN

Replying to @PFTCommenter

Can you please provide an approximate location for this photo and what direction you were looking? Thanks!

9:05 PM - 24 May 2017

923 Retweets **6,704** Likes



#3: Octa

May 24, 2017

8:33 PM



media

Reliable Sources

Think

Profit

Newtube

Entertainment



ESPN ends Barstool Sports talk show after just one episode



by Frank Pallotta @frankpallotta

🕒 October 23, 2017: 5:13 PM ET

👍 Recommend 269



"**Barstool Van Talk**" -- which included original shorts, interviews, and took place in a van named Vanny Woodhead -- had courted controversy for ESPN since the network announced the show earlier this month. This was due to its association with Barstool Sports, a sports site known for its **bawdy and offensive sports commentary**.

#3: Octa

May 24, 2017

8:33 PM



Not an EF2

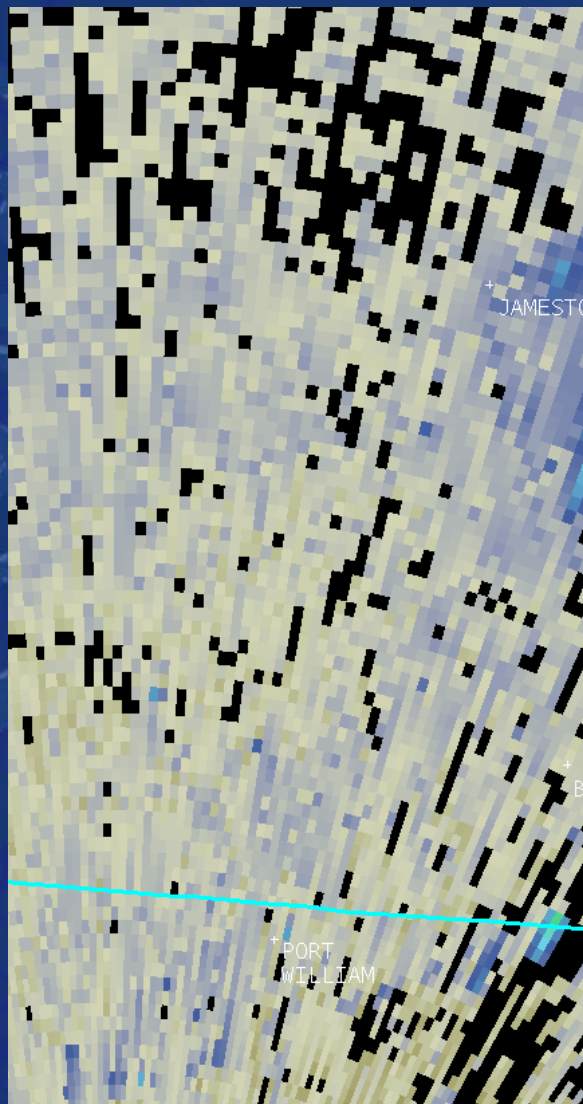
(on the Fajita Scale)

(or any other scale)

#3: Octa

May 24, 2017

8:33 PM



relayed by
Ben Gelber

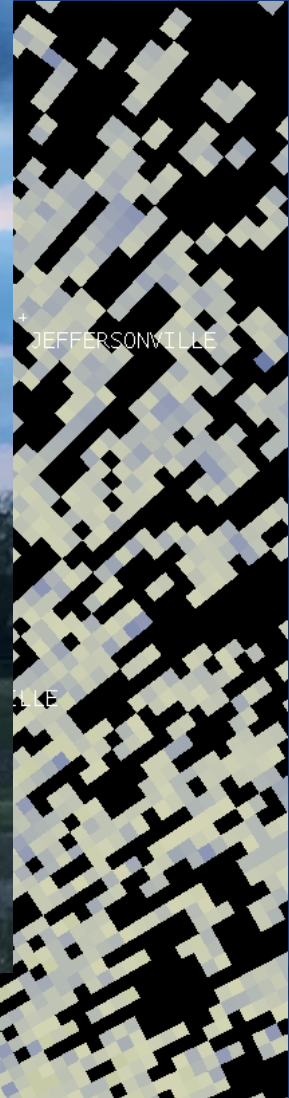
#3: Octa

May 24, 2017

8:33 PM



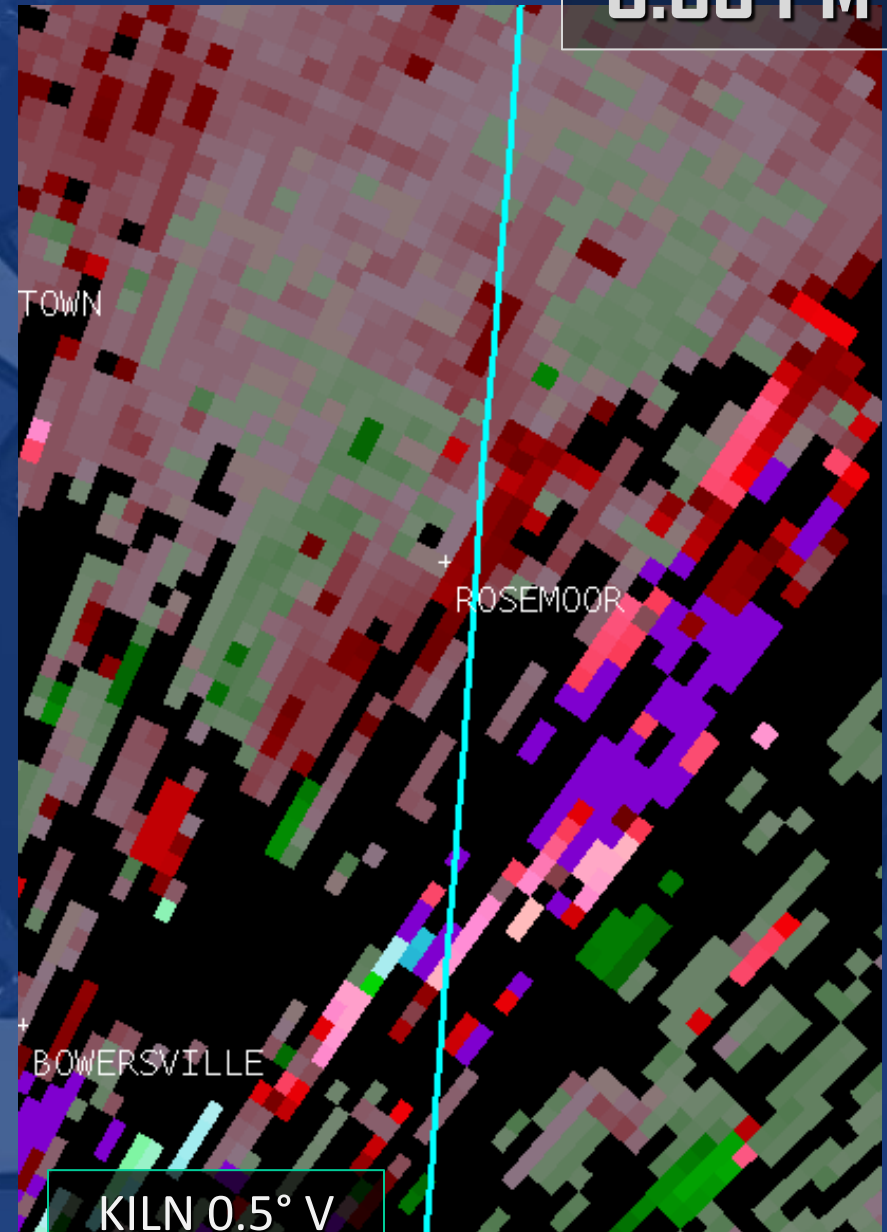
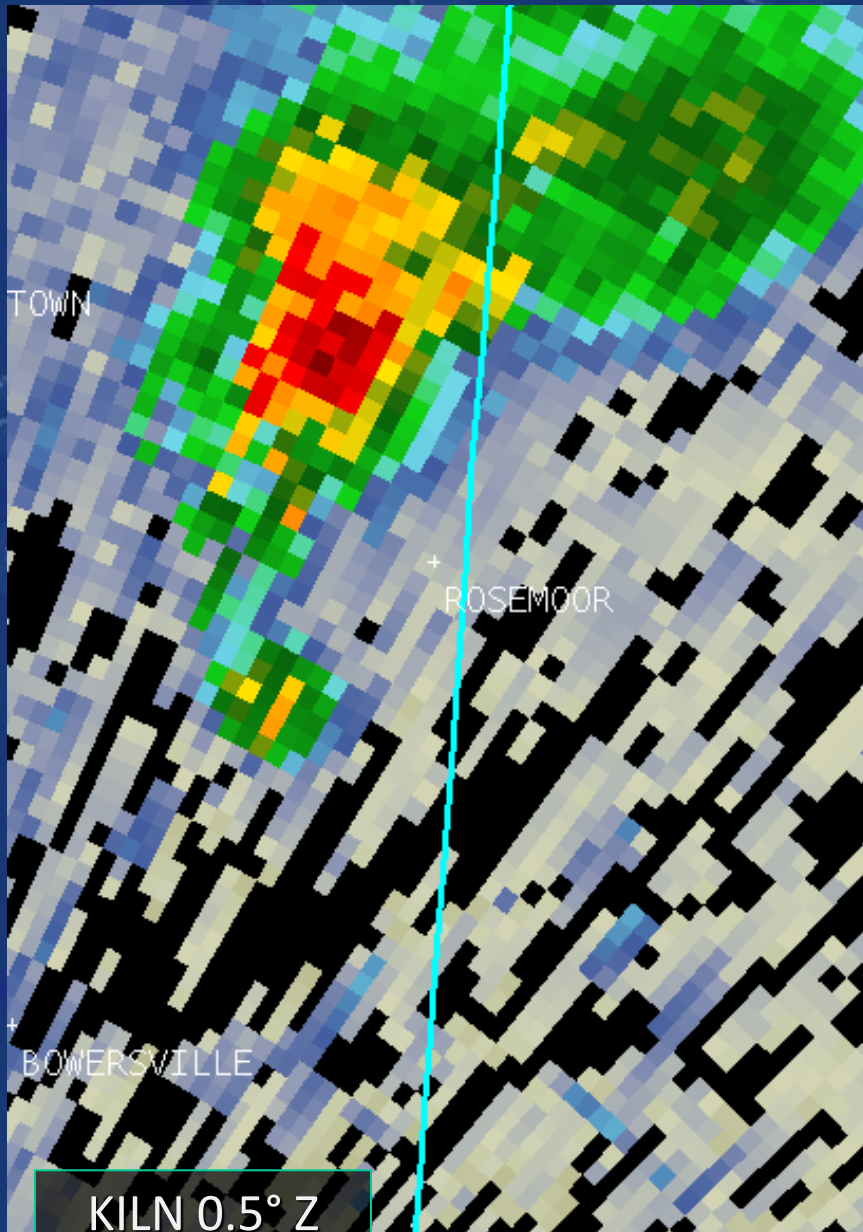
Erica Collura



#3: Octa

May 24, 2017

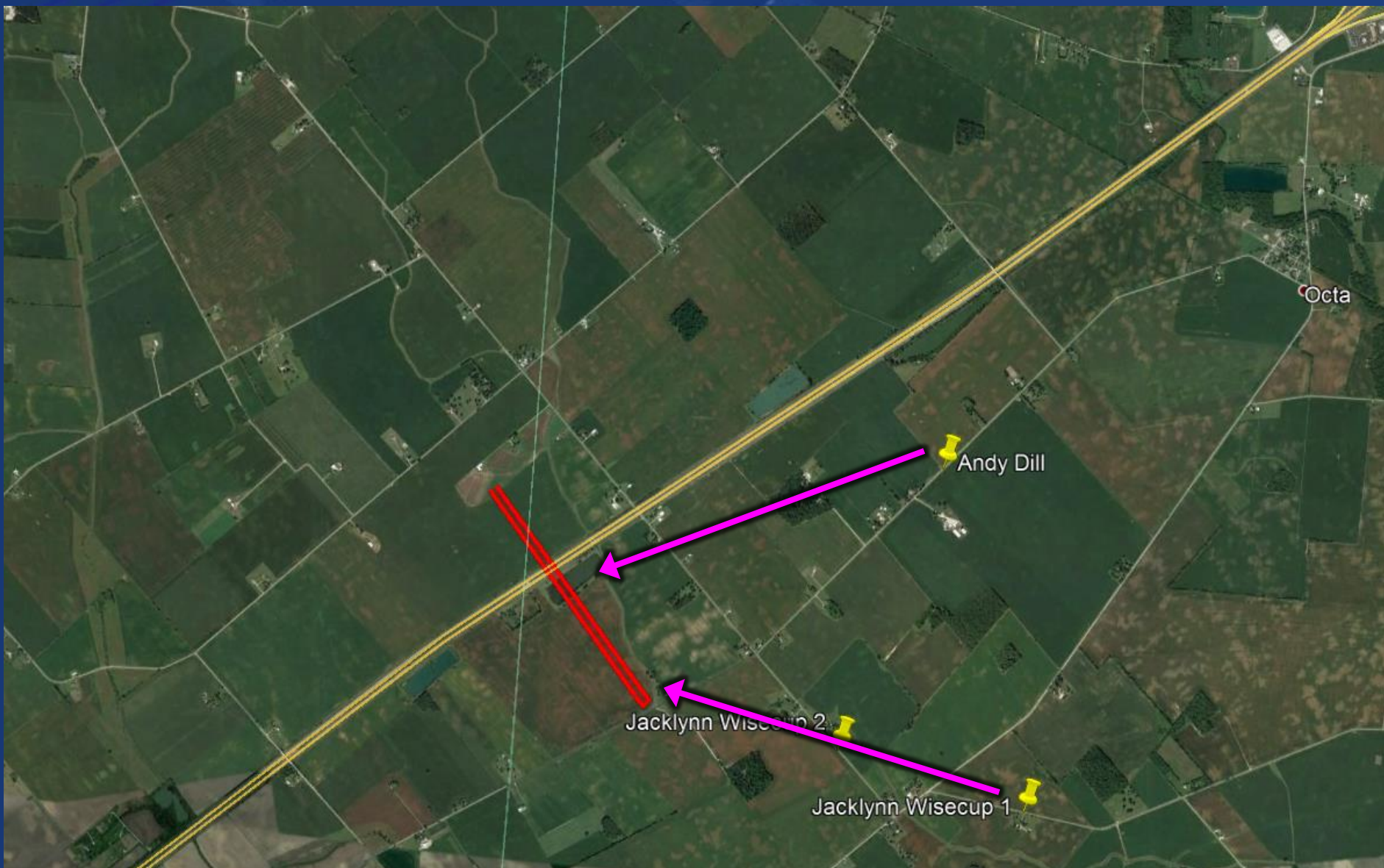
8:36 PM



#3: Octa

May 24, 2017

8:36 PM



#3: Octa

May 24, 2017

8:36 PM

8:27 PM
to
8:36 PM

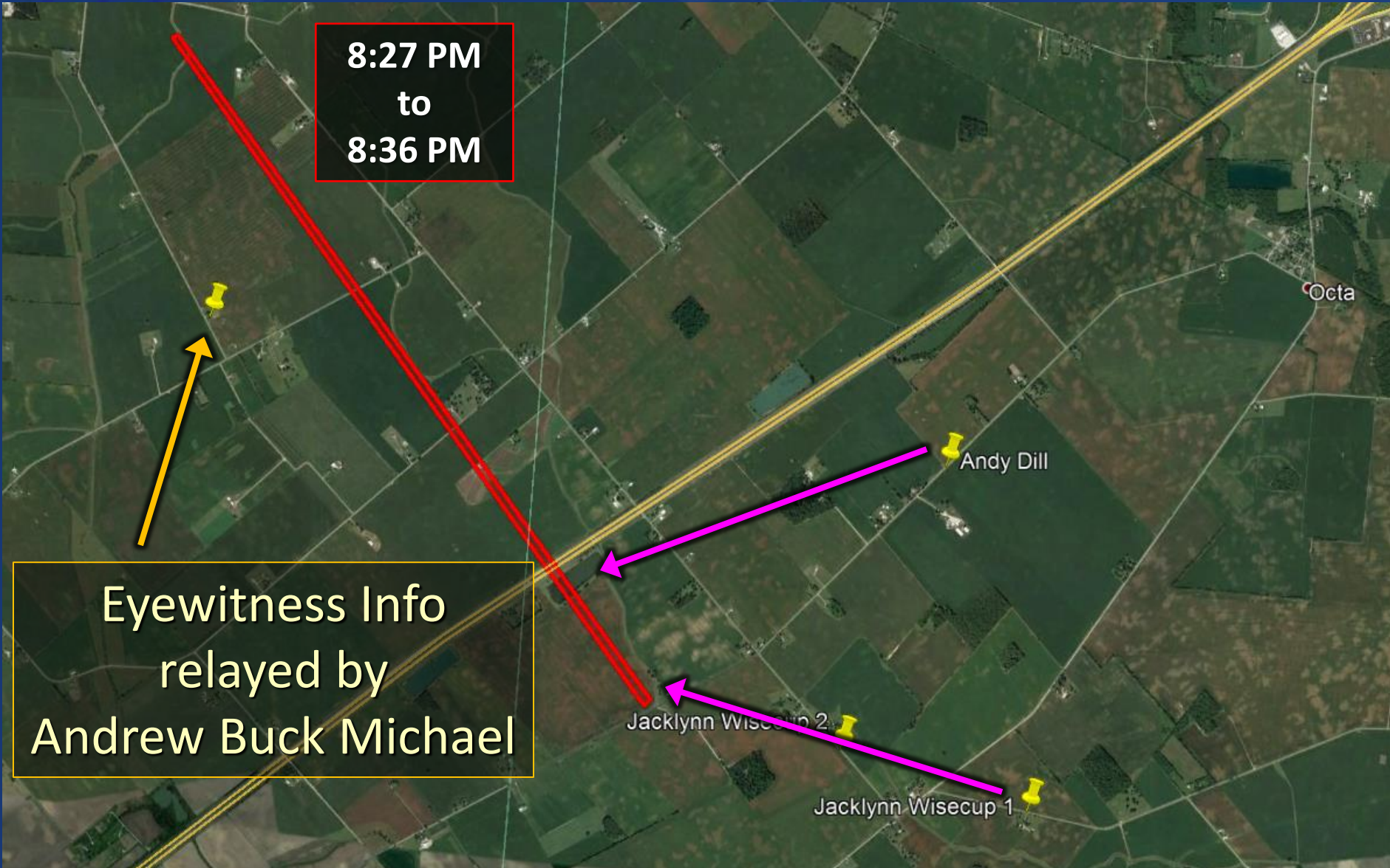
Eyewitness Info
relayed by
Andrew Buck Michael

Andy Dill

Jacklynn Wisecup 2

Jacklynn Wisecup 1

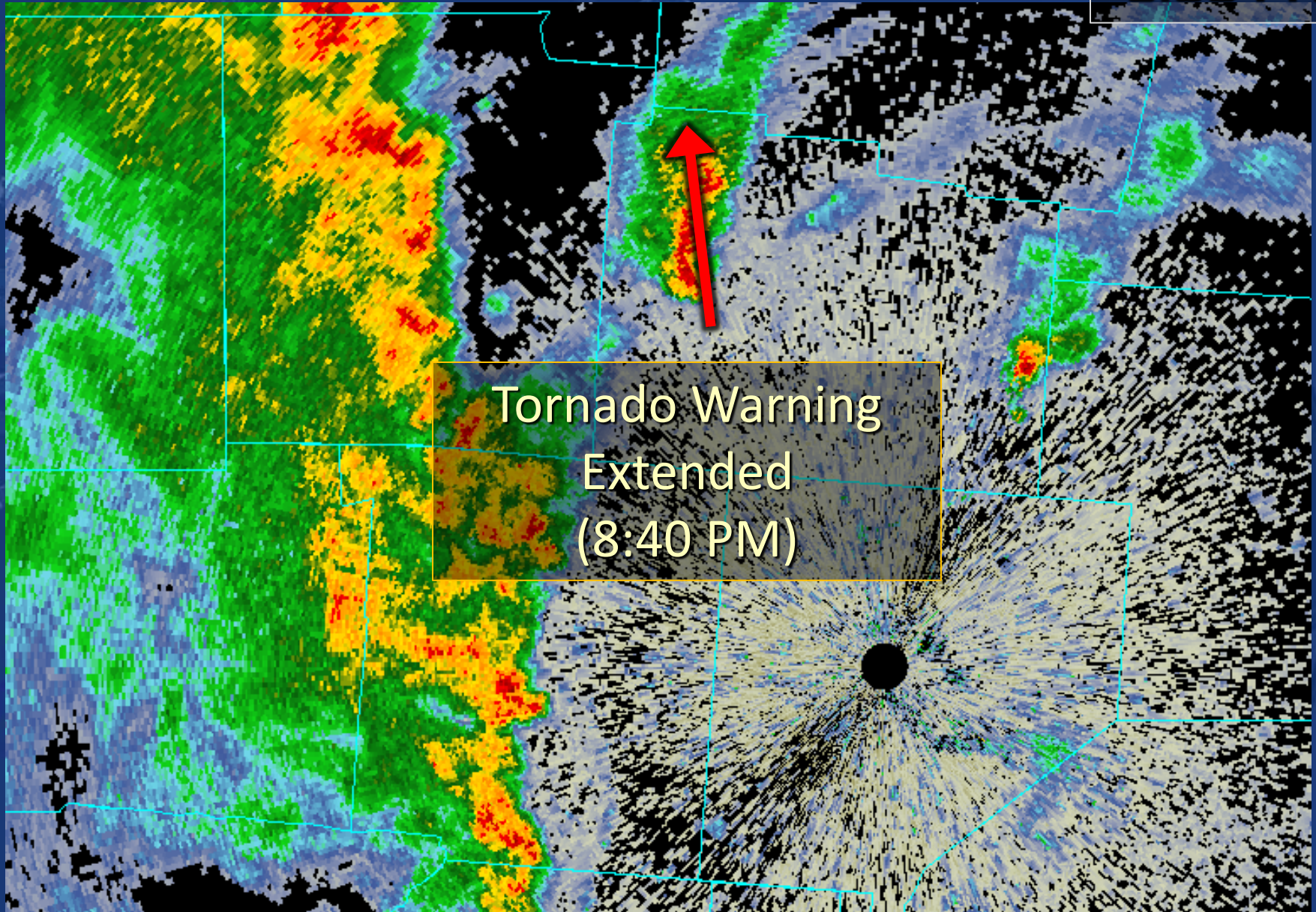
Octa



Three down...

May 24, 2017

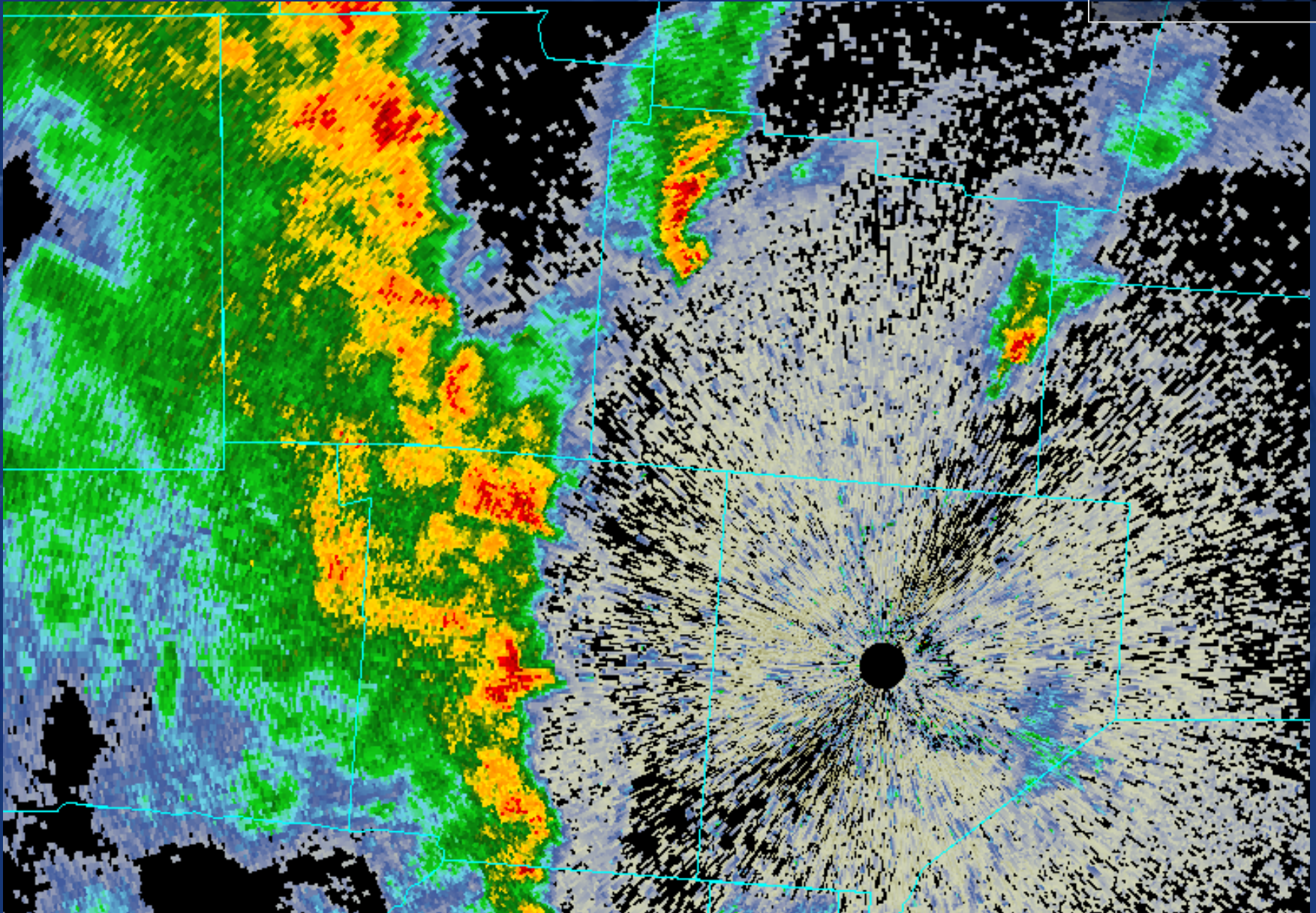
8:36 PM



Three down...

May 24, 2017

8:42 PM



Three down...

May 24, 2017

8:46 PM

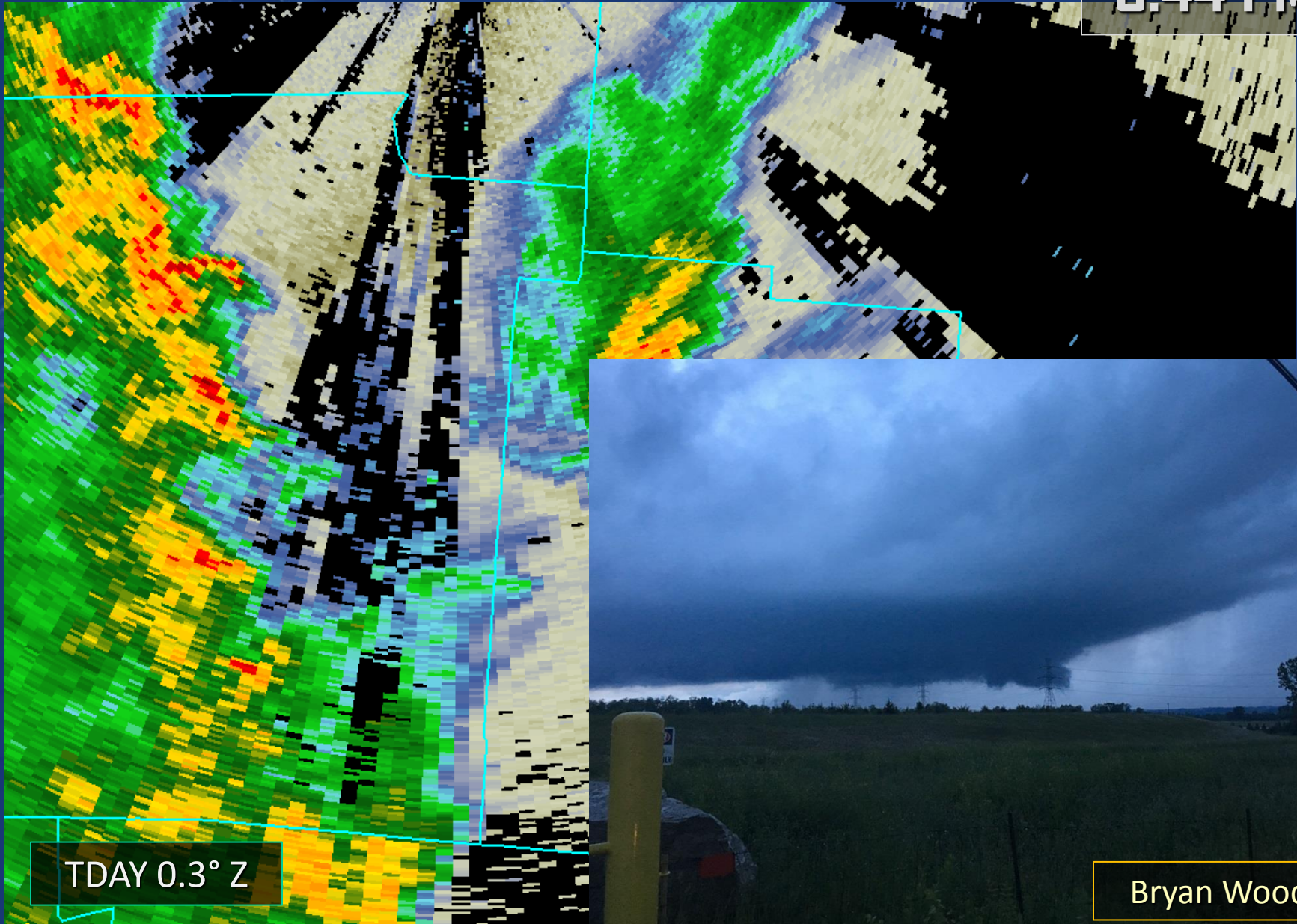
**Radar data are temporarily
unavailable for this location.**

For additional information, please
see the latest ***Radar Status Message***
link (above right).

Three down...

May 24, 2017

8:44 PM



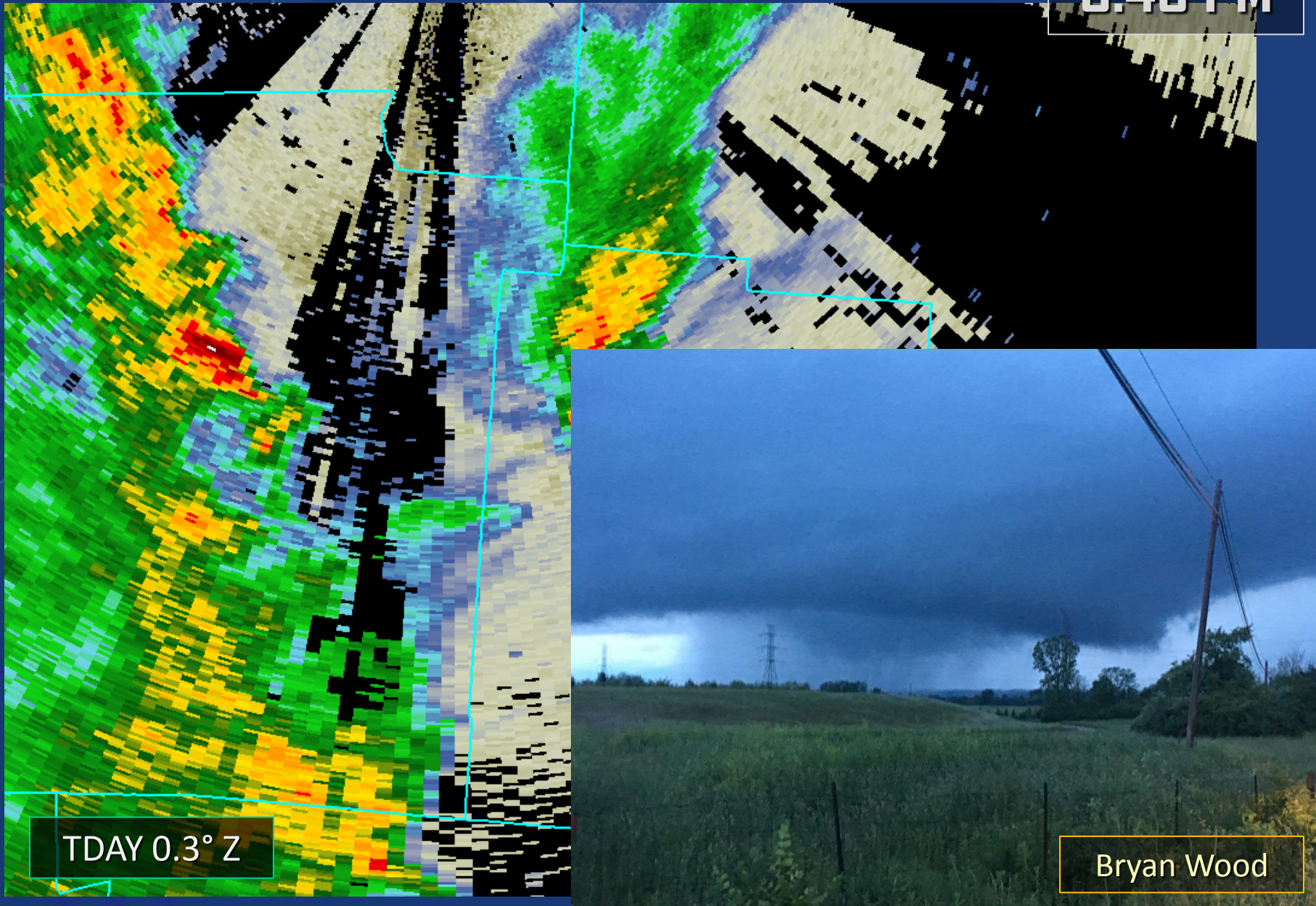
TDAY 0.3° Z

Bryan Wood

Three down...

May 24, 2017

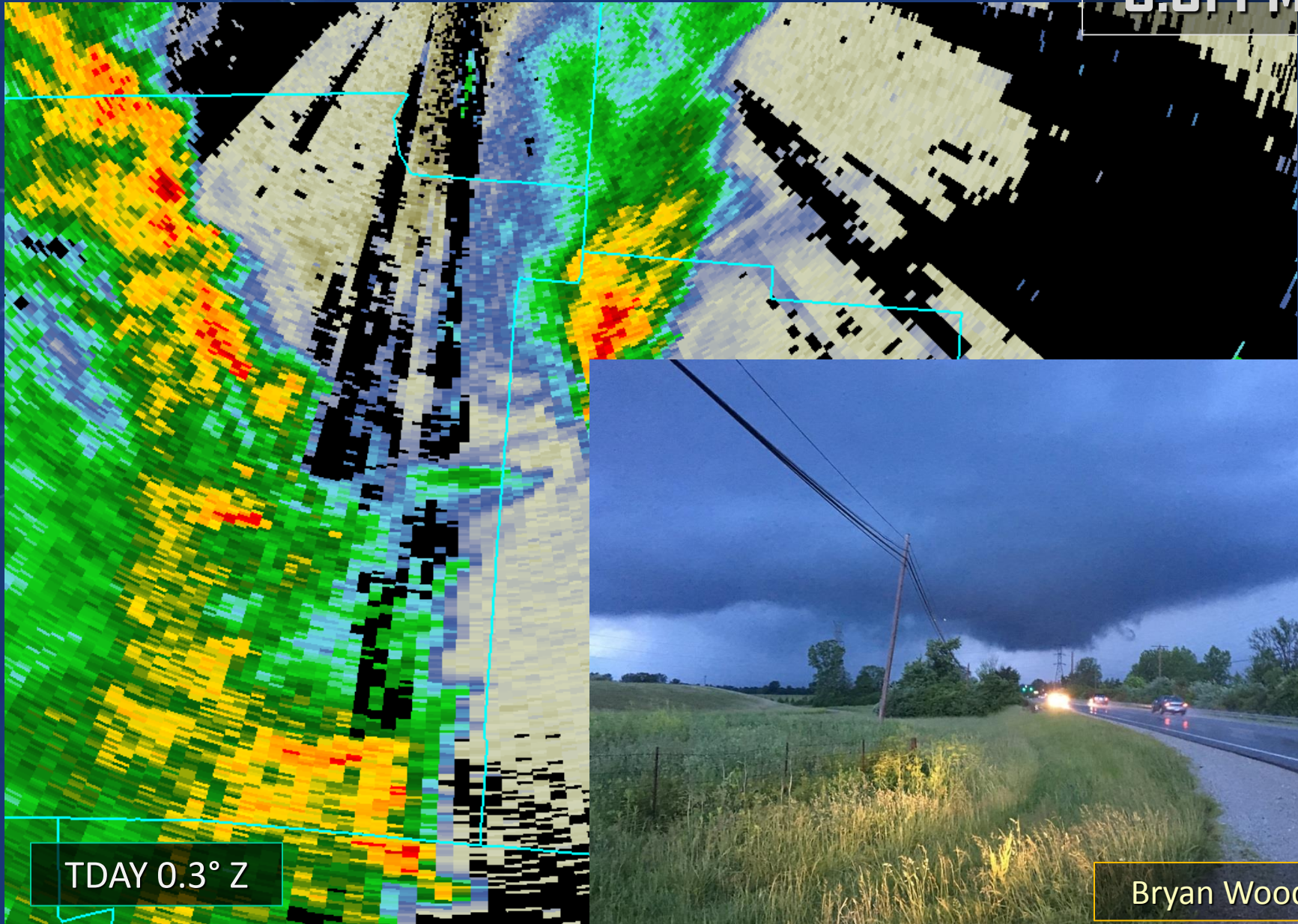
8:48 PM



Three down...

May 24, 2017

8:51 PM



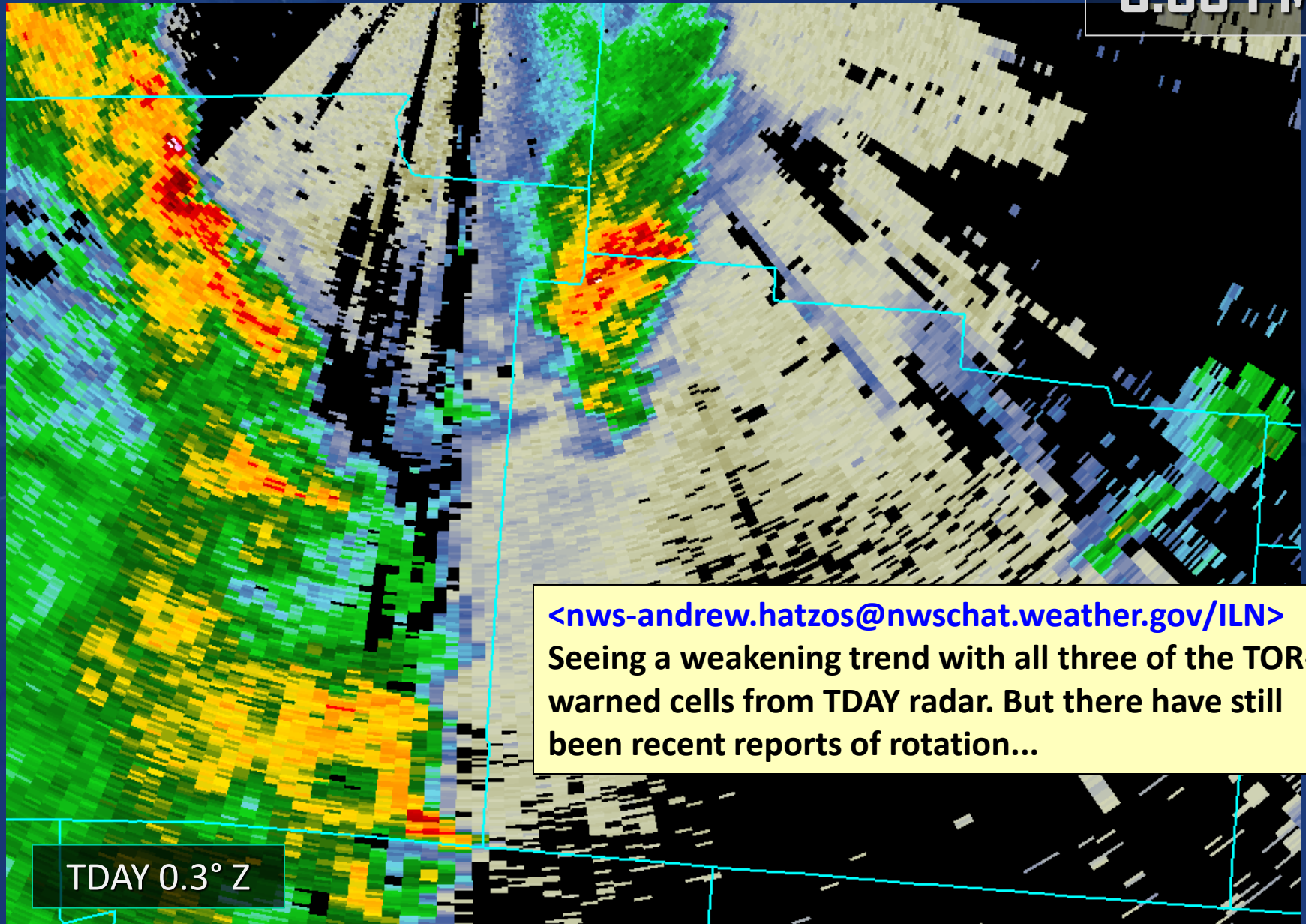
TDAY 0.3° Z

Bryan Wood

Three down...

May 24, 2017

8:56 PM



[<nws-andrew.hatzos@nwschat.weather.gov/ILN>](mailto:nws-andrew.hatzos@nwschat.weather.gov/ILN)

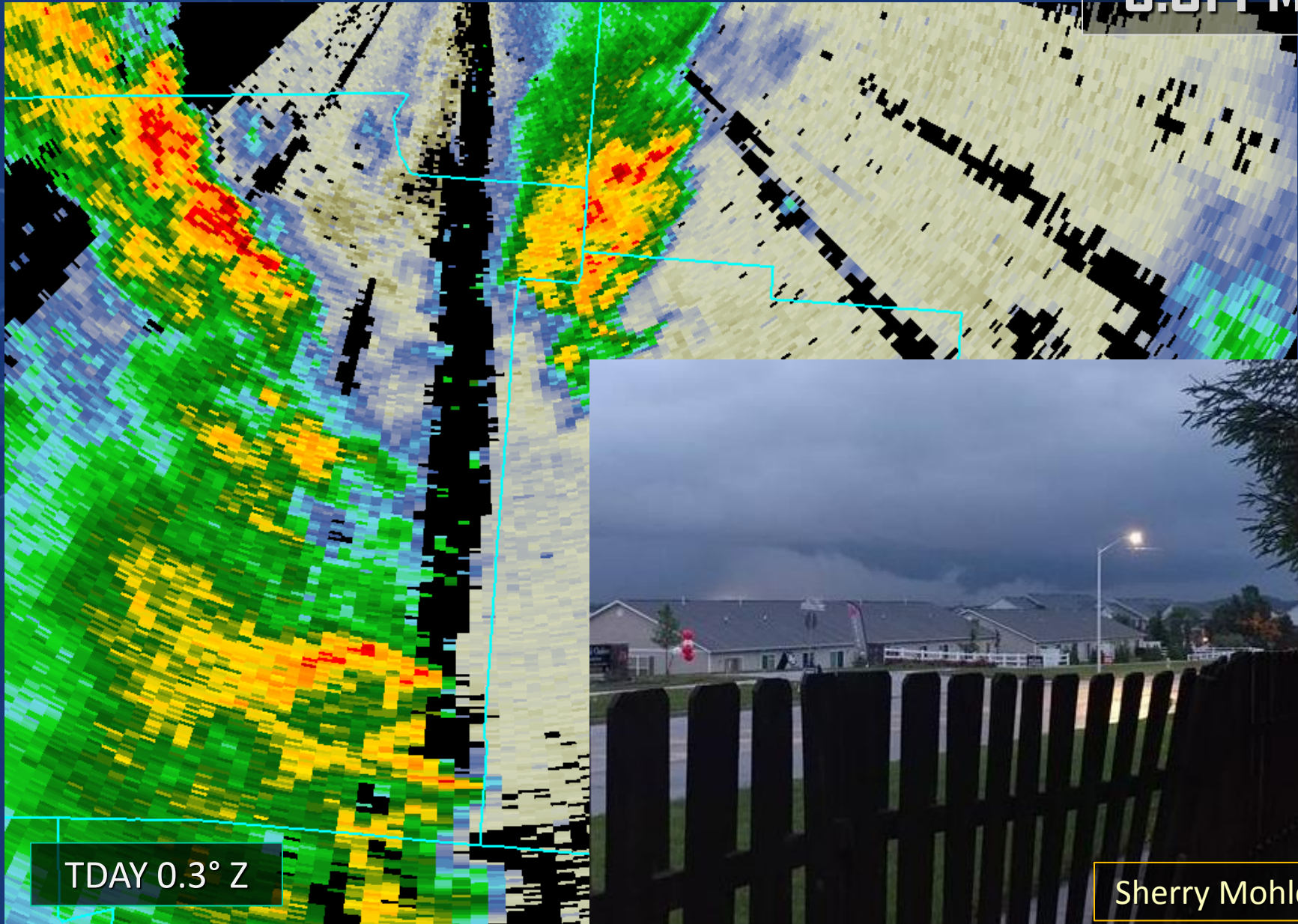
Seeing a weakening trend with all three of the TOR-warned cells from TDAY radar. But there have still been recent reports of rotation...

TDAY 0.3° Z

Three down...

May 24, 2017

9:01 PM



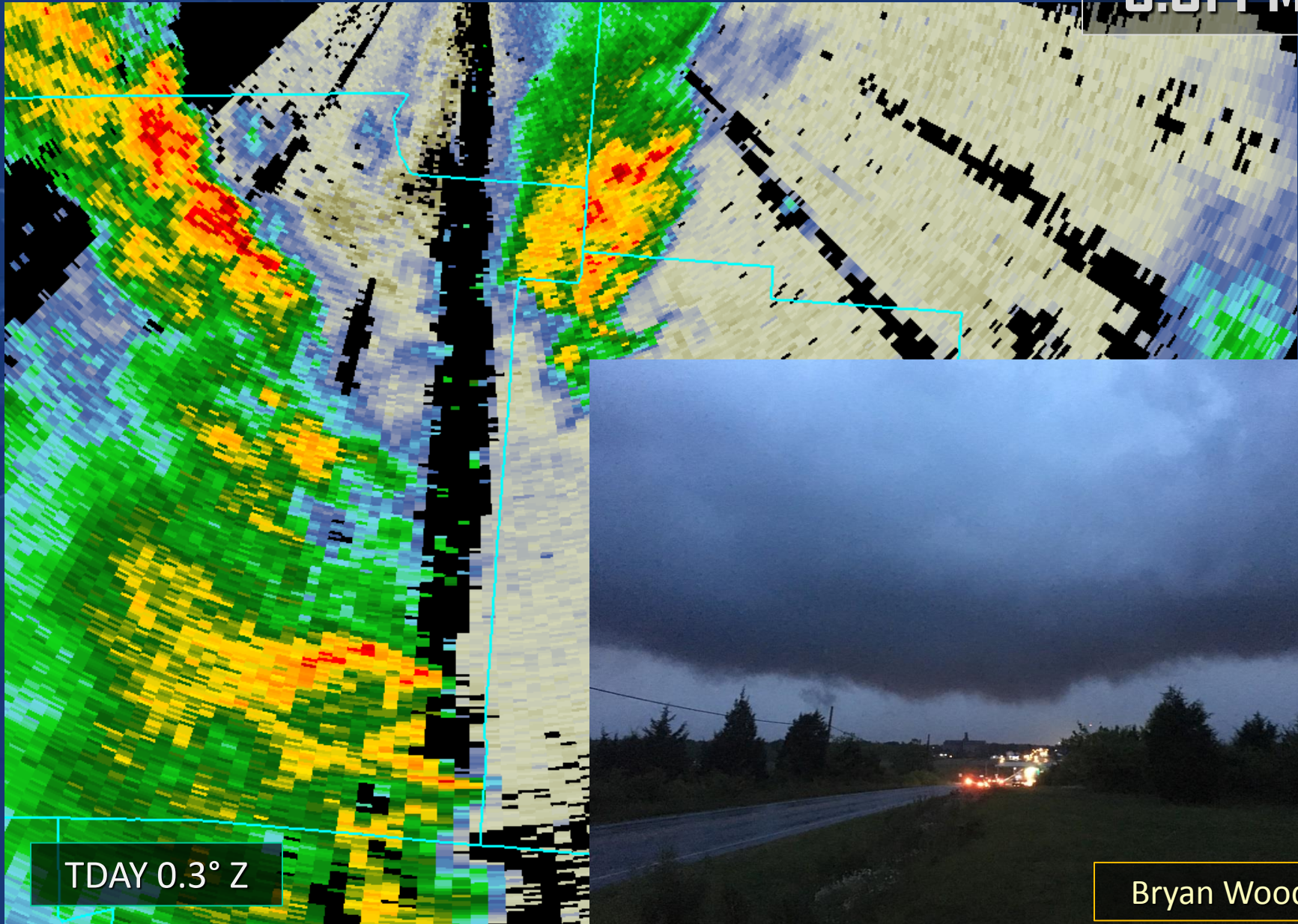
TDAY 0.3° Z

Sherry Mohler

Three down...

May 24, 2017

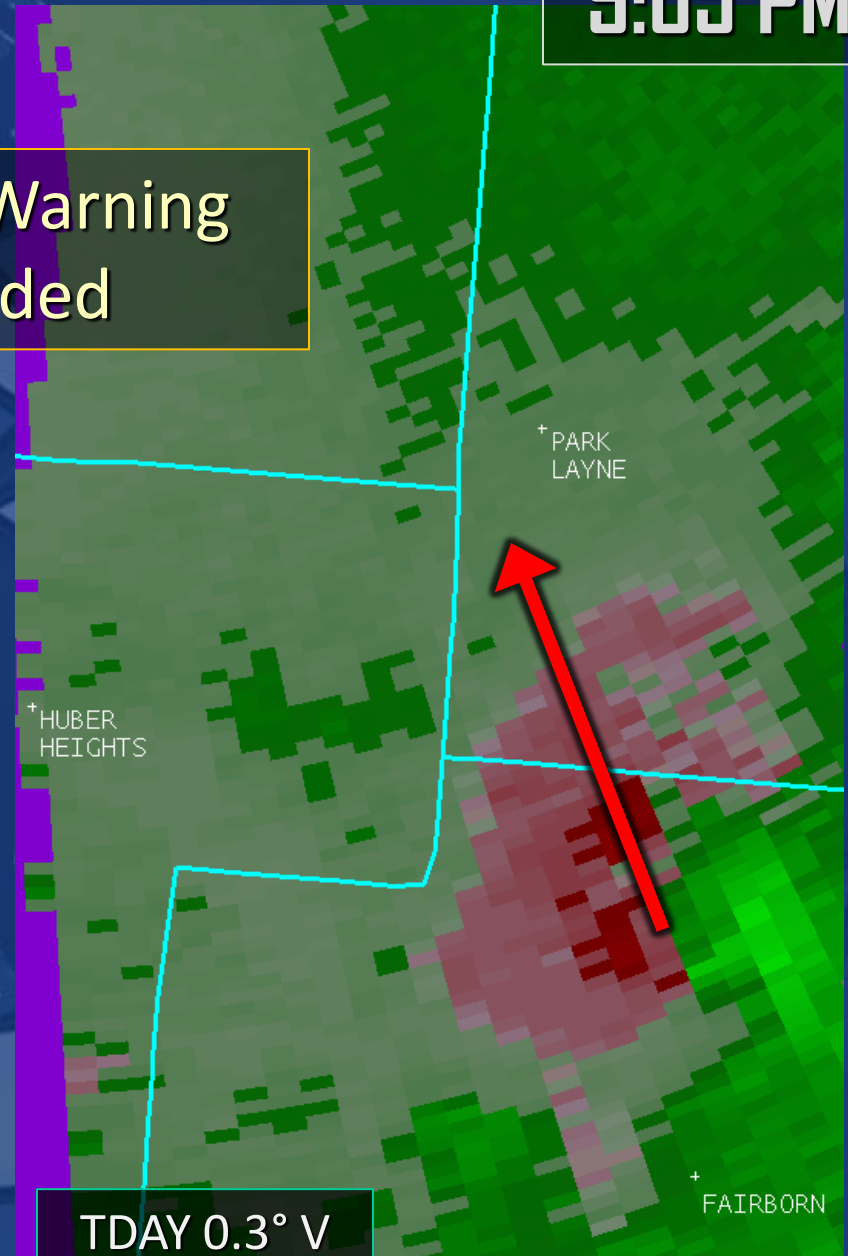
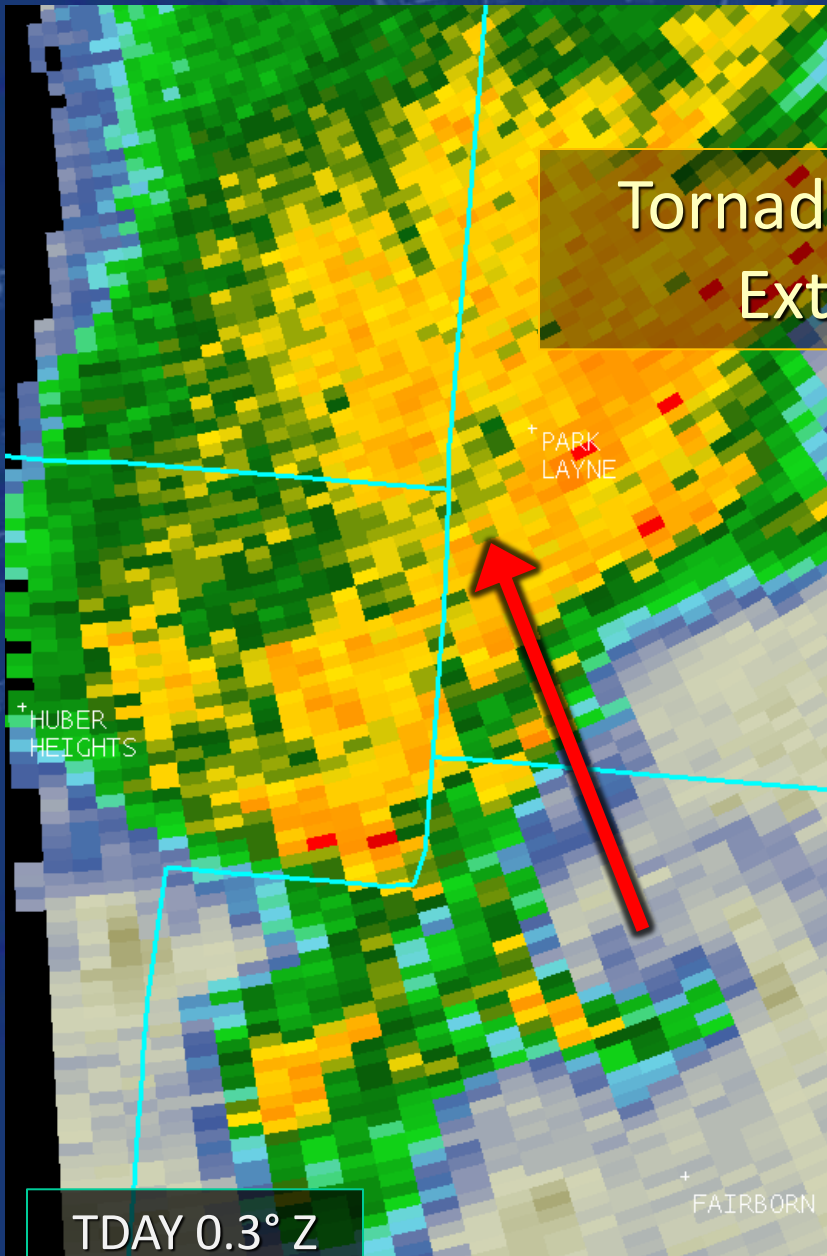
9:01 PM



#4: Fairborn

May 24, 2017
9:05 PM

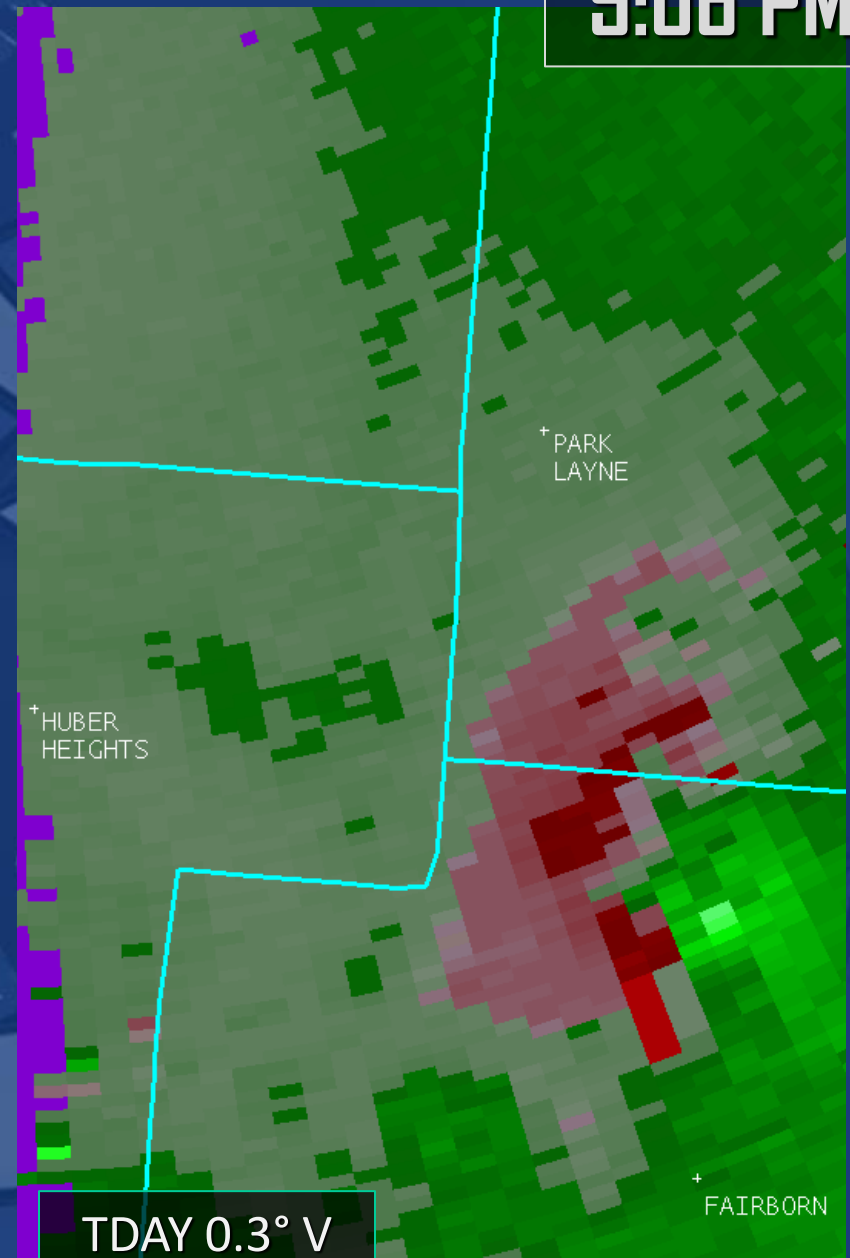
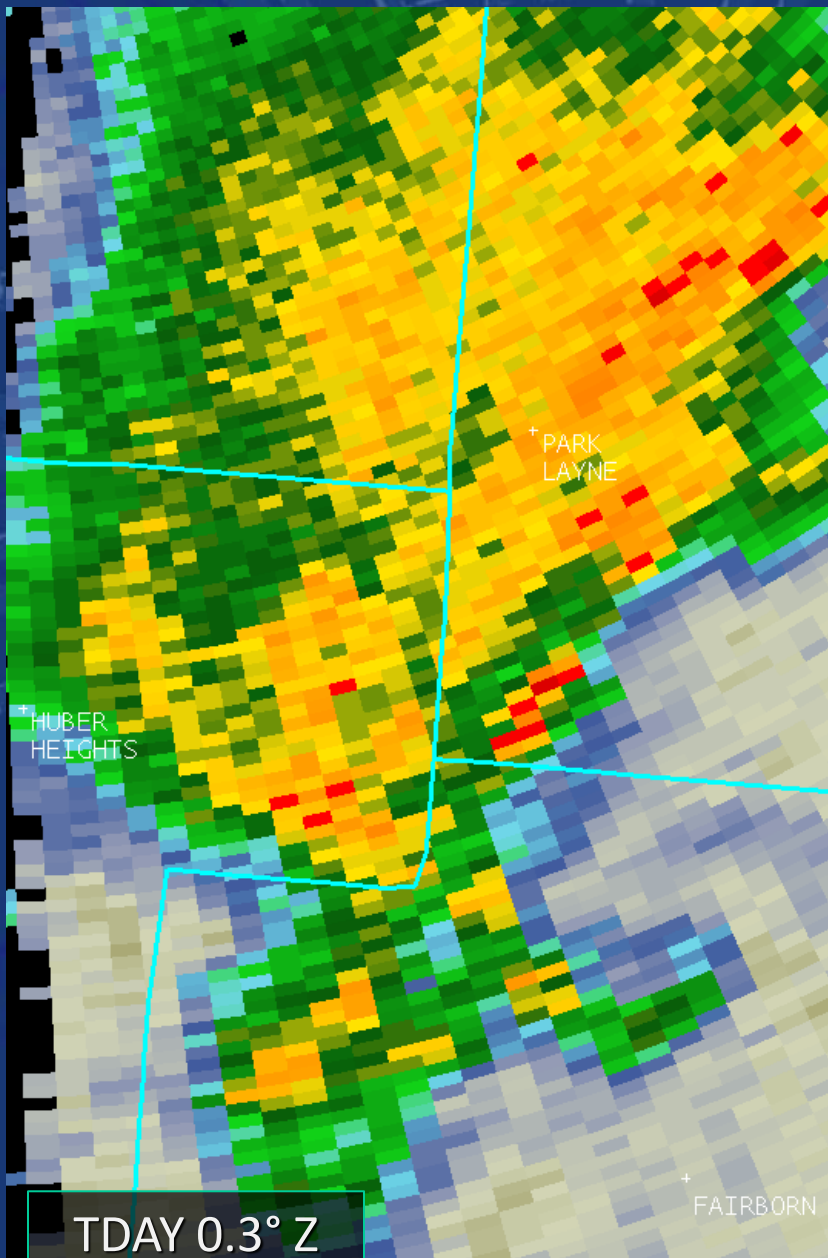
Tornado Warning
Extended



#4: Fairborn

May 24, 2017

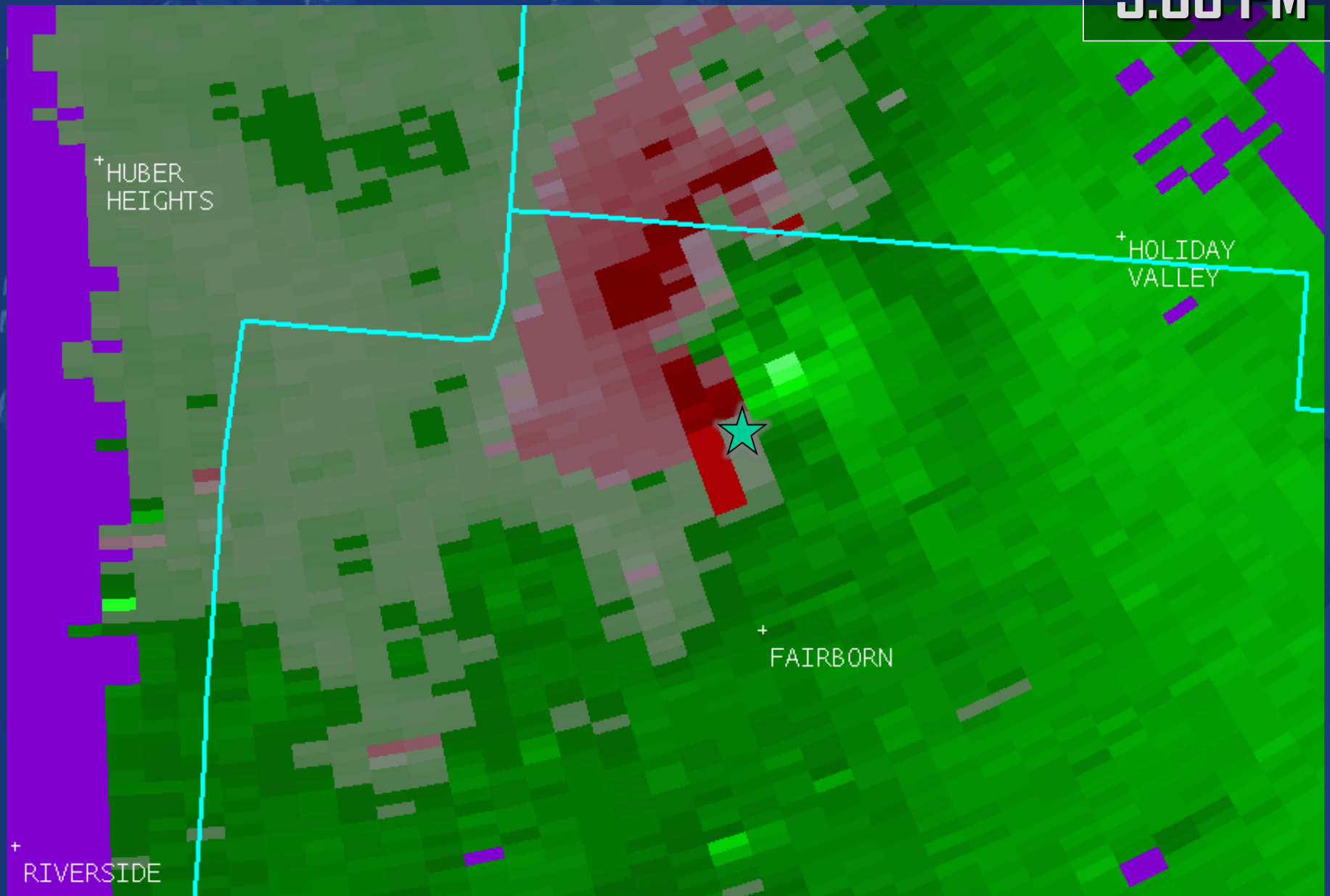
9:06 PM



#4: Fairborn

May 24, 2017

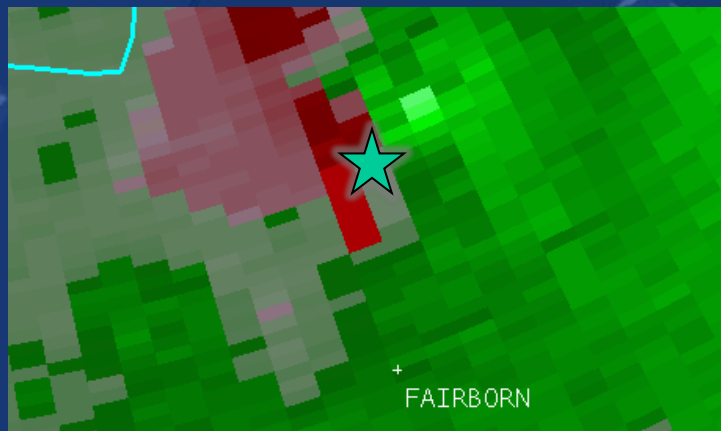
9:06 PM



#4: Fairborn

May 24, 2017

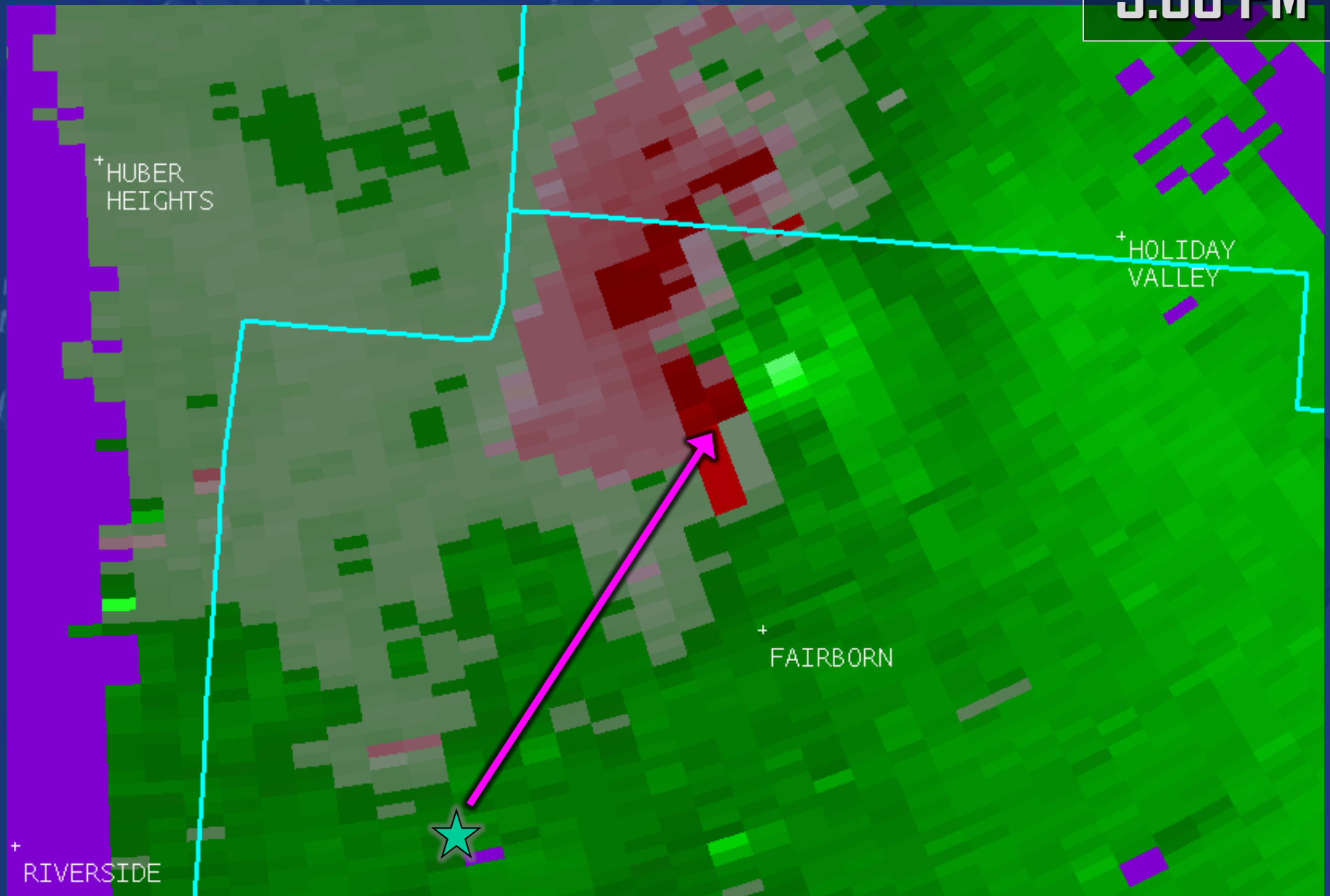
9:06 PM



#4: Fairborn

May 24, 2017

9:06 PM



#4: Fairborn

May 24, 2017

9:06 PM



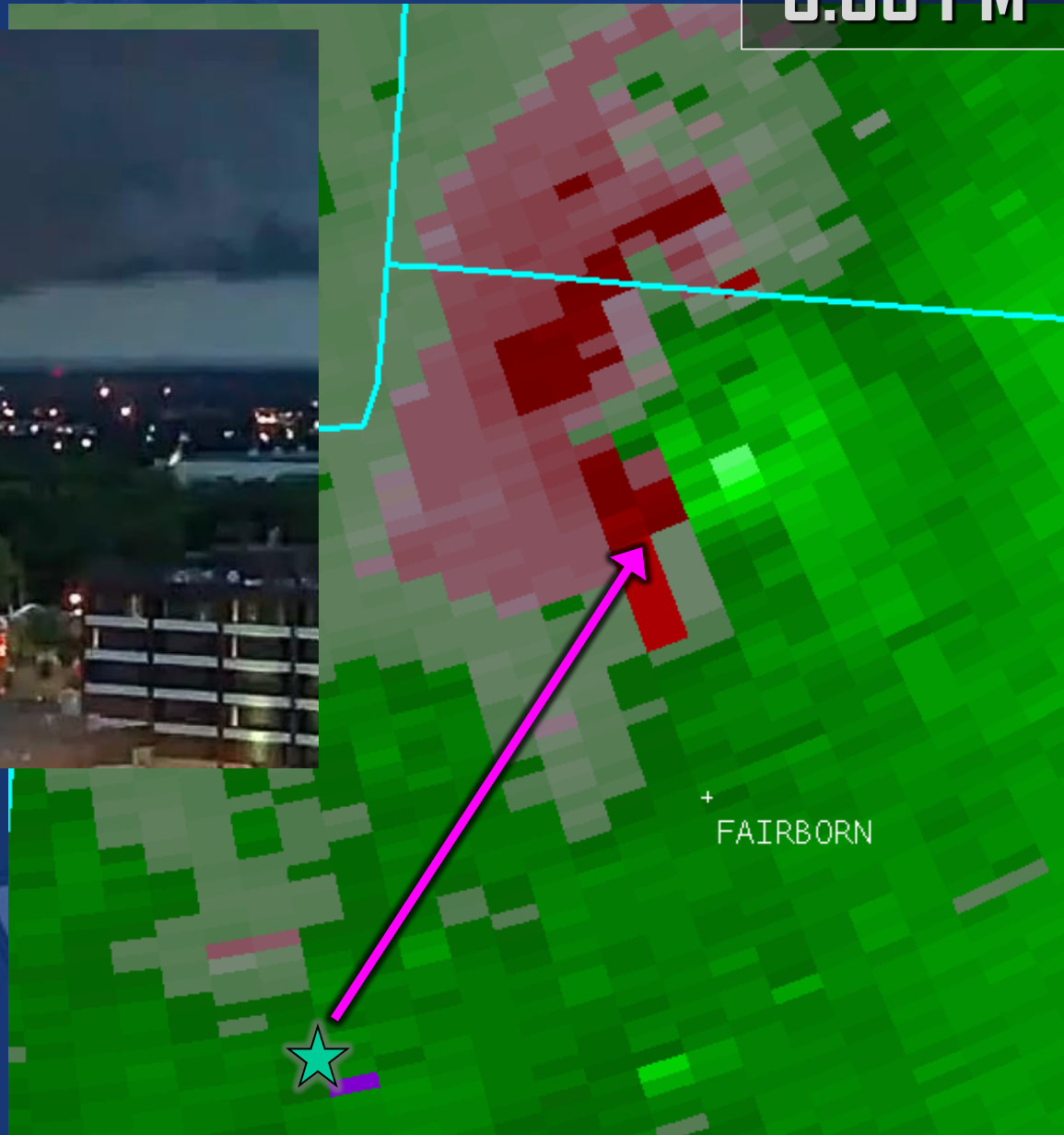
Eric Elwell / WHIO

#4: Fairborn

May 24, 2017
9:06 PM



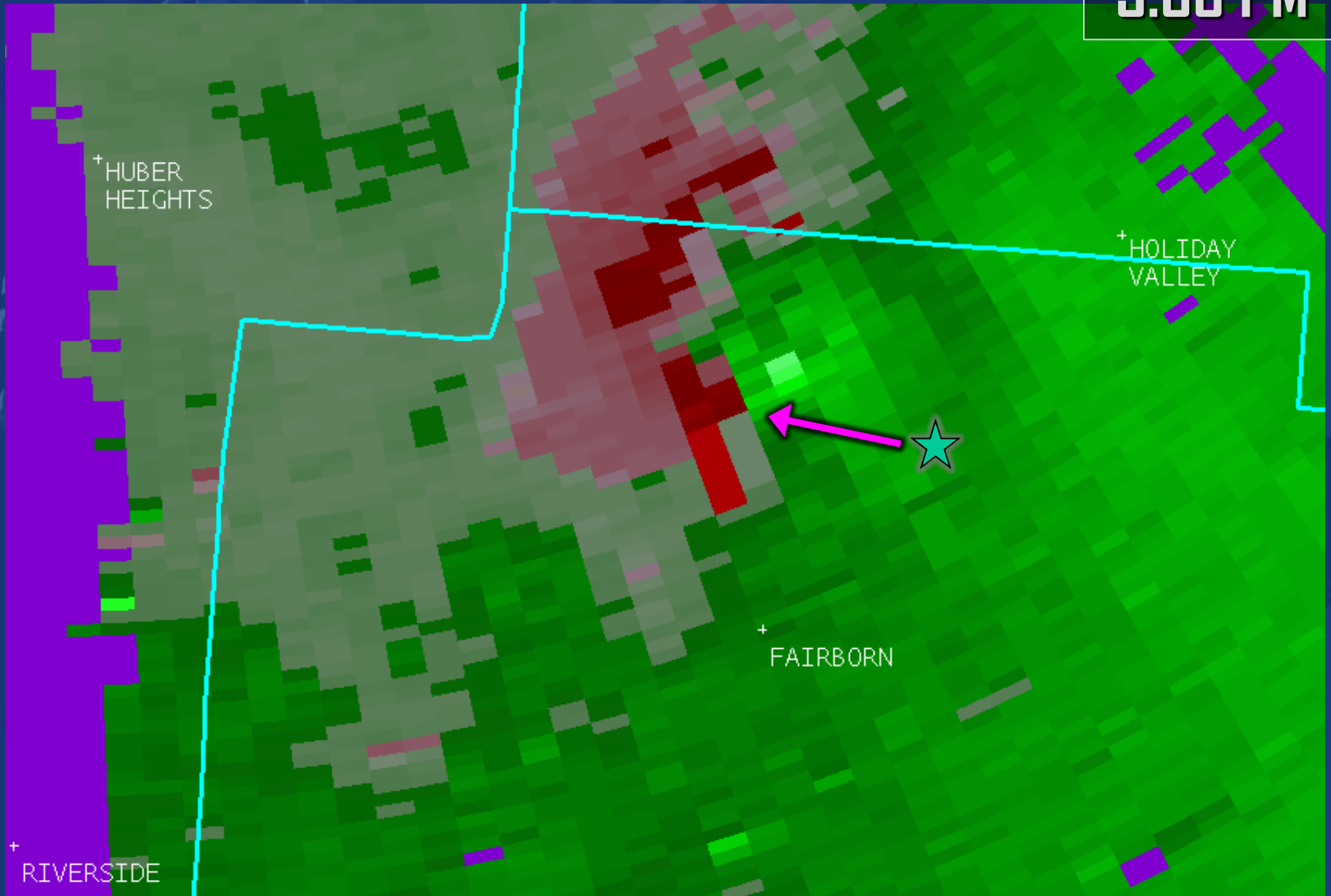
Eric Elwell / WHIO



#4: Fairborn

May 24, 2017

9:06 PM



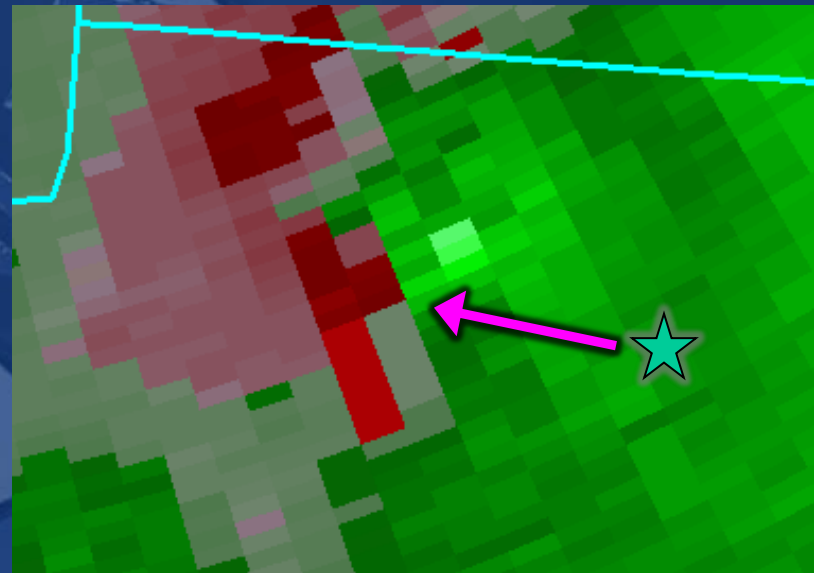
#4: Fairborn

May 24, 2017

9:06 PM



Christy Schmidt



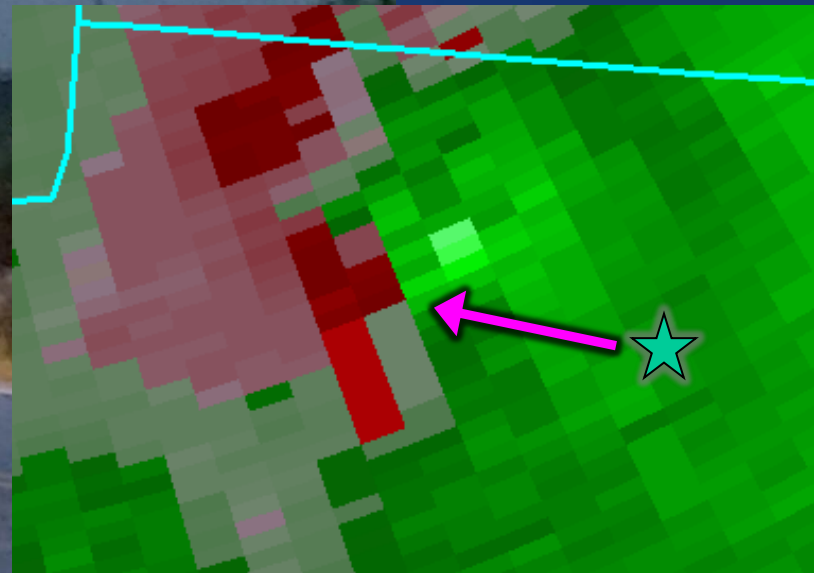
#4: Fairborn

May 24, 2017

9:06 PM



Jessica Dunn
via Bryan Wood



#4: Fairborn

May 24, 2017

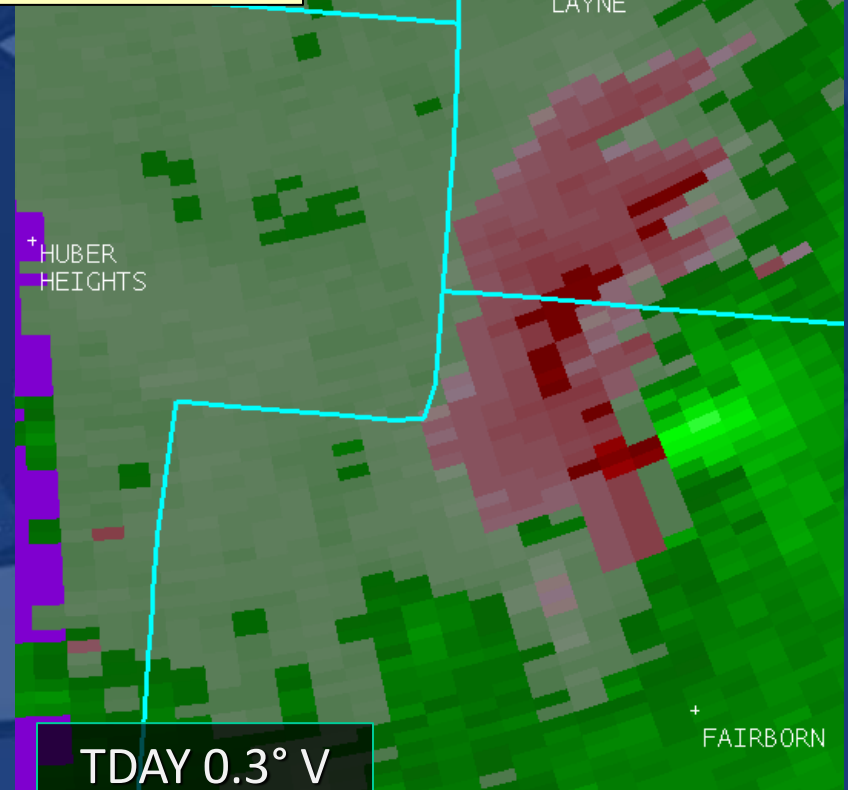
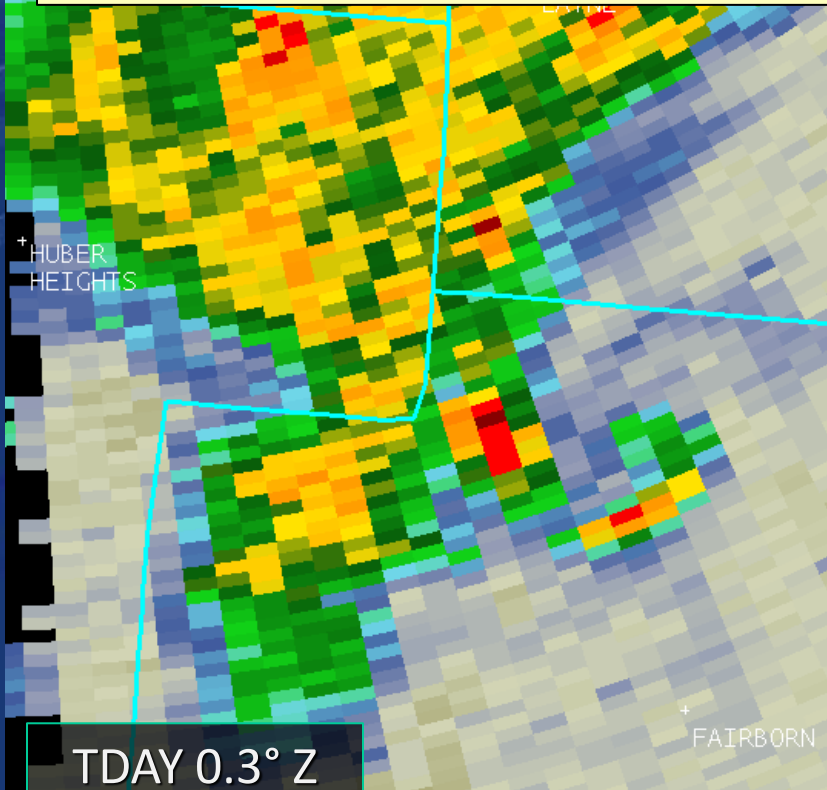
9:07 PM

[<nws-andrew.hatzos@nwschat.weather.gov/ILN>](mailto:nws-andrew.hatzos@nwschat.weather.gov/ILN)

Circulation on TDAY is strengthening again. Have to continue this north.

[<ham-gary.a.clark@nwschat.weather.gov/NWSChatLive>](mailto:ham-gary.a.clark@nwschat.weather.gov/NWSChatLive)

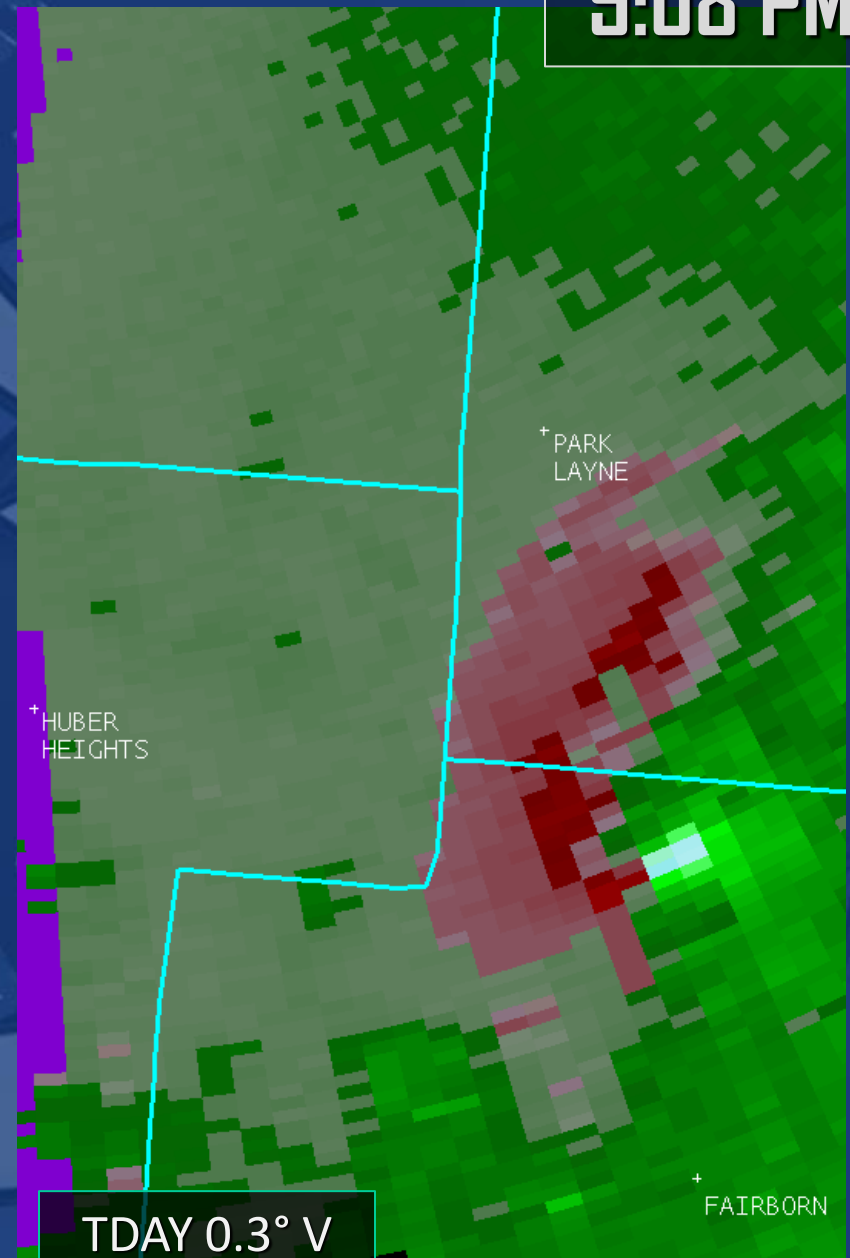
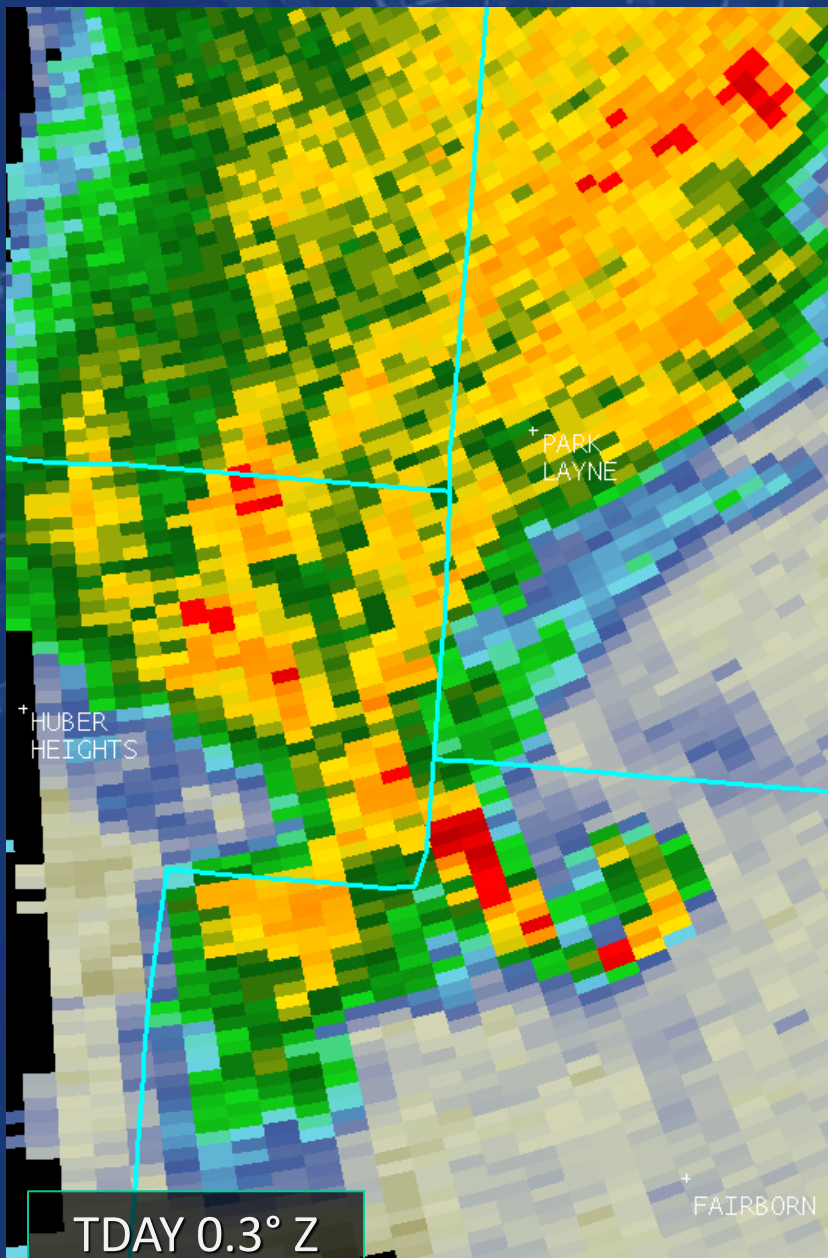
possible touchdown fairborn at broad and central,
spotter reports just went through hotel parking lot



#4: Fairborn

May 24, 2017

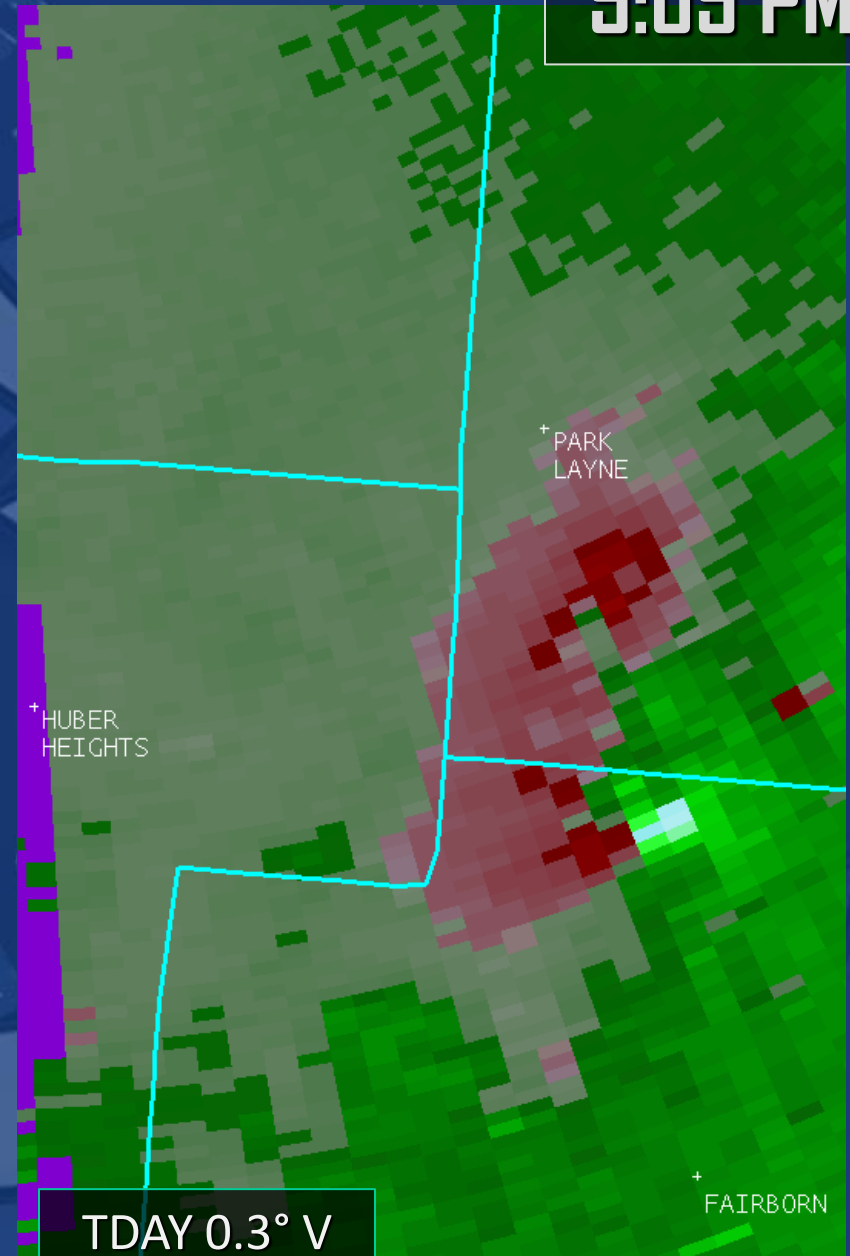
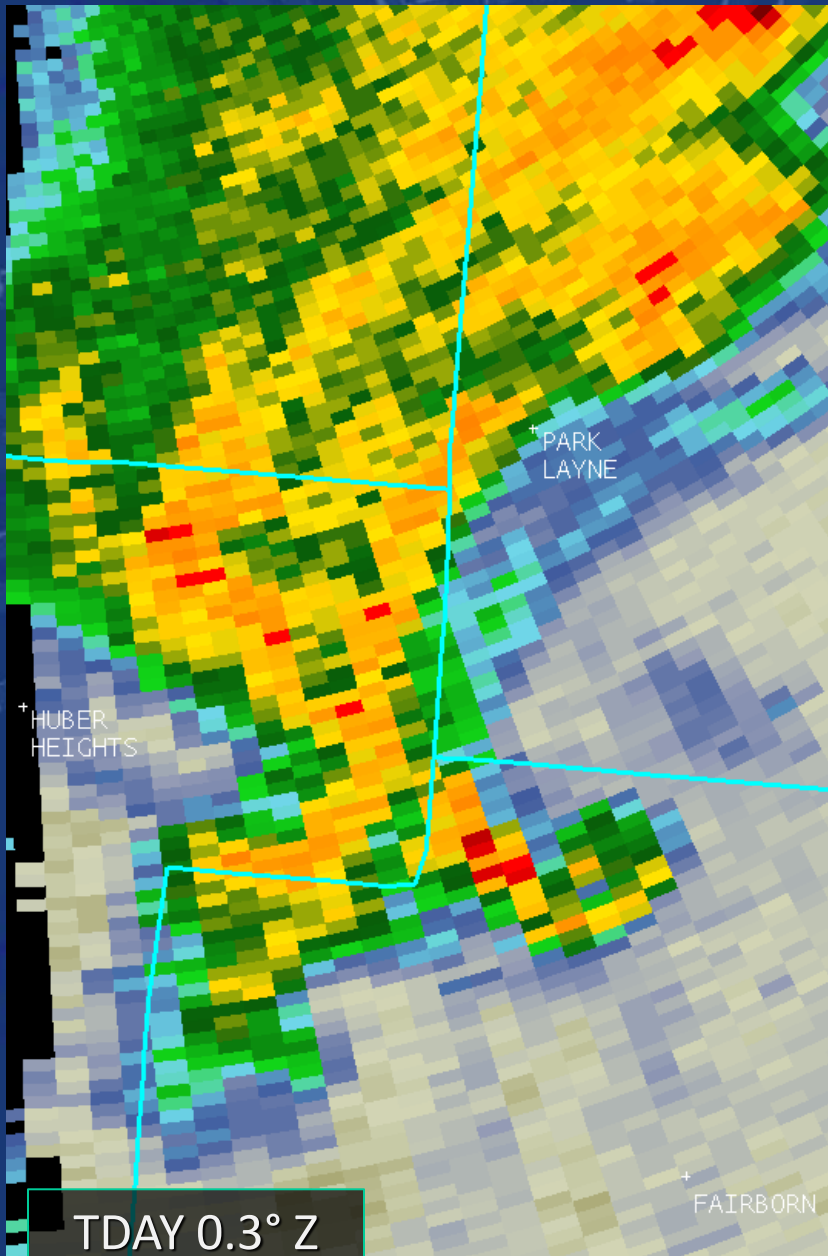
9:08 PM



#4: Fairborn

May 24, 2017

9:09 PM



#4: Fairborn

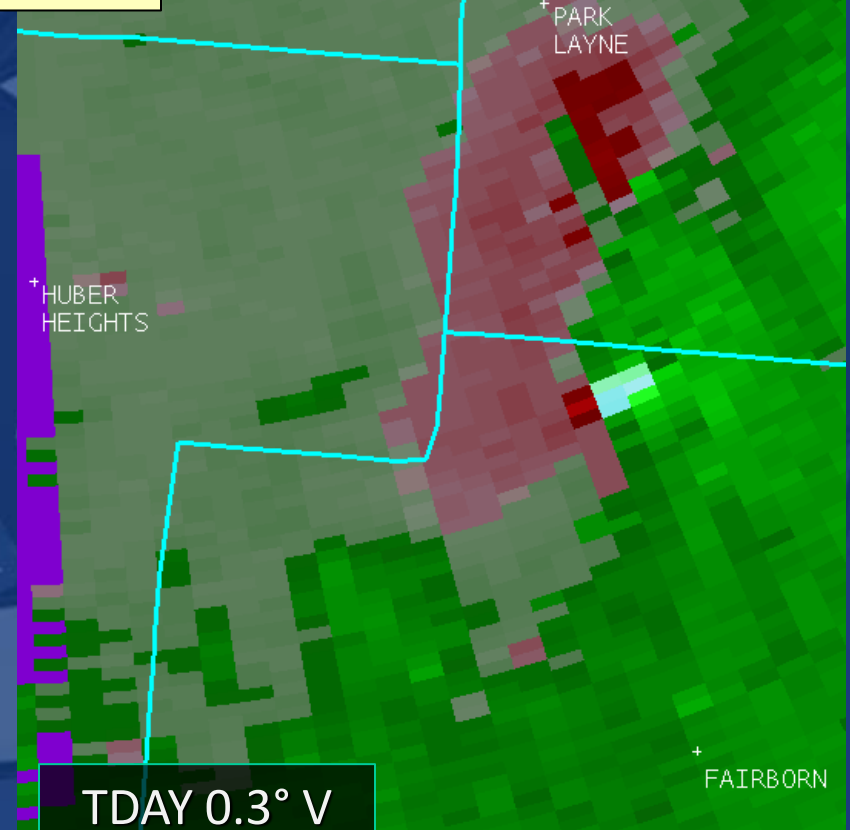
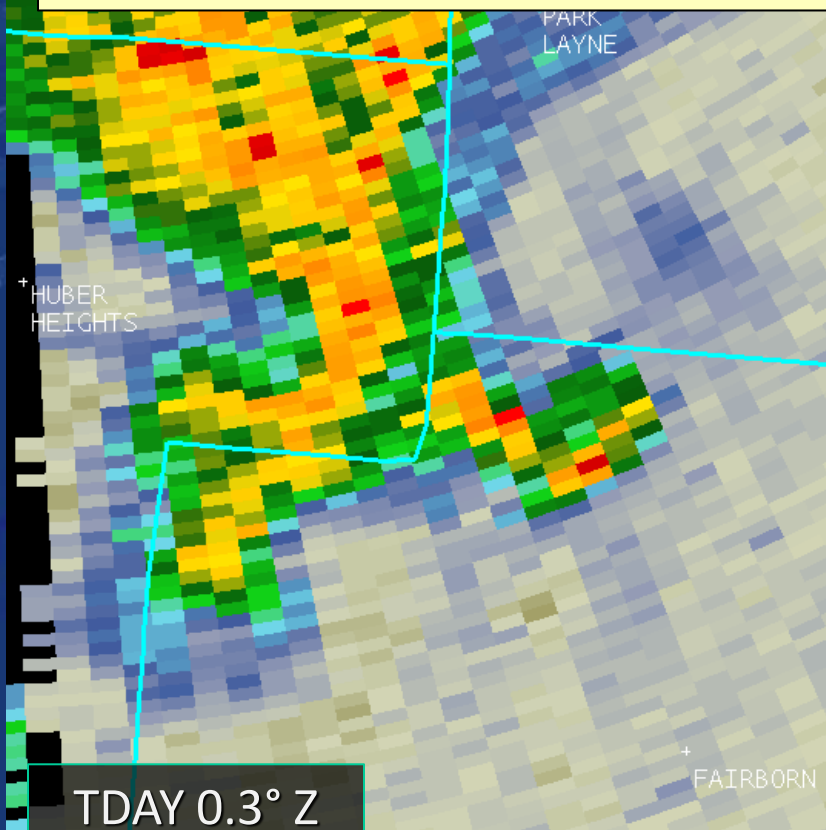
May 24, 2017

9:10 PM

[<nws-andrew.hatzos@nwschat.weather.gov/ILN>](mailto:nws-andrew.hatzos@nwschat.weather.gov/ILN)

TDAY has a 40knot rotational velocity just about to cross the line into Clark County.

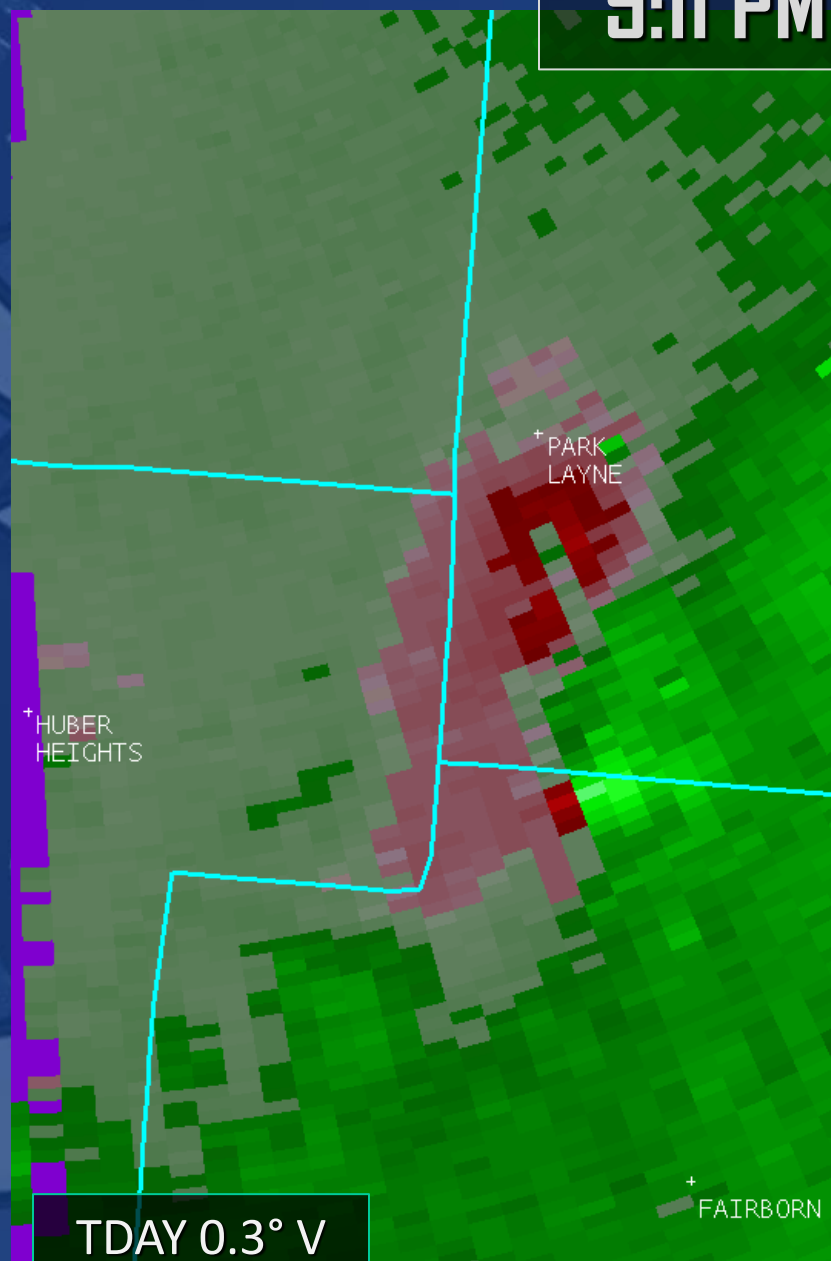
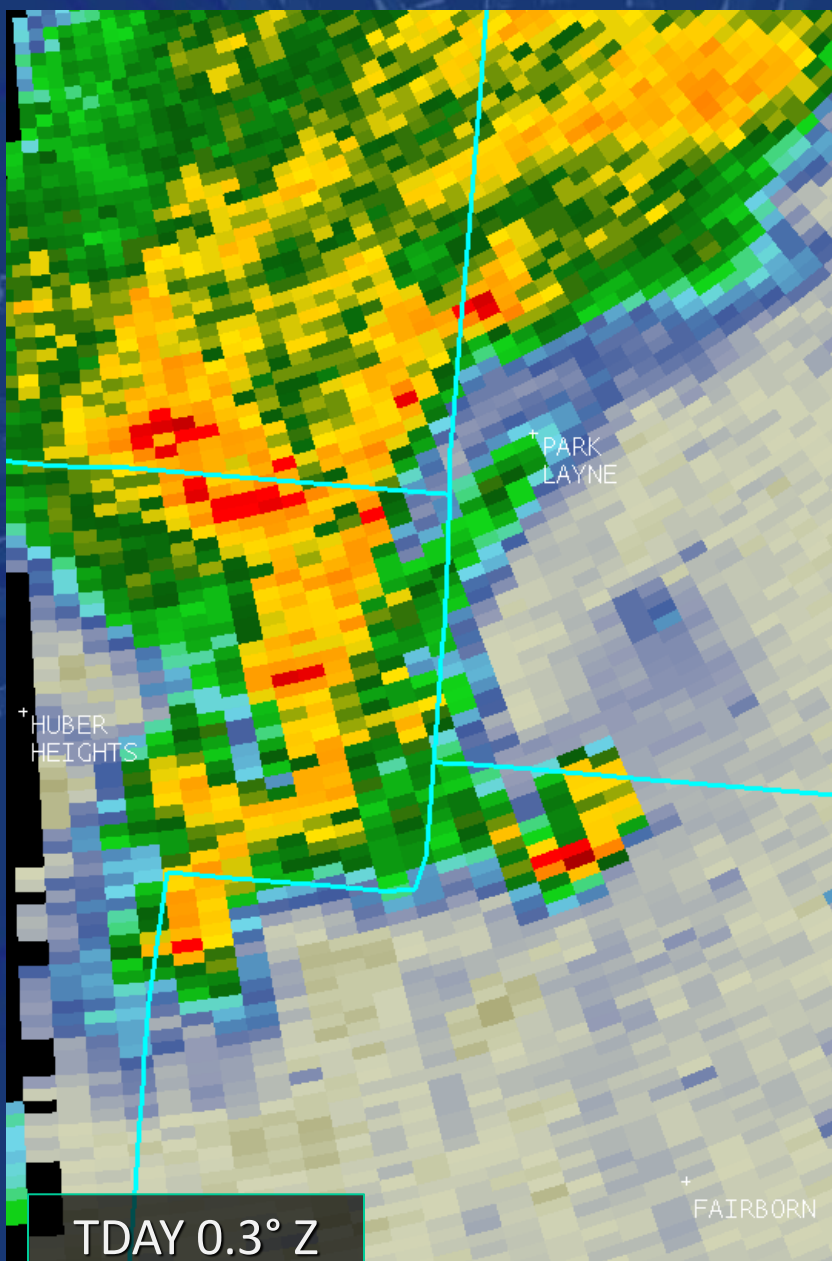
...radar indicated a severe thunderstorm likely producing a tornado...



#4: Fairborn

May 24, 2017

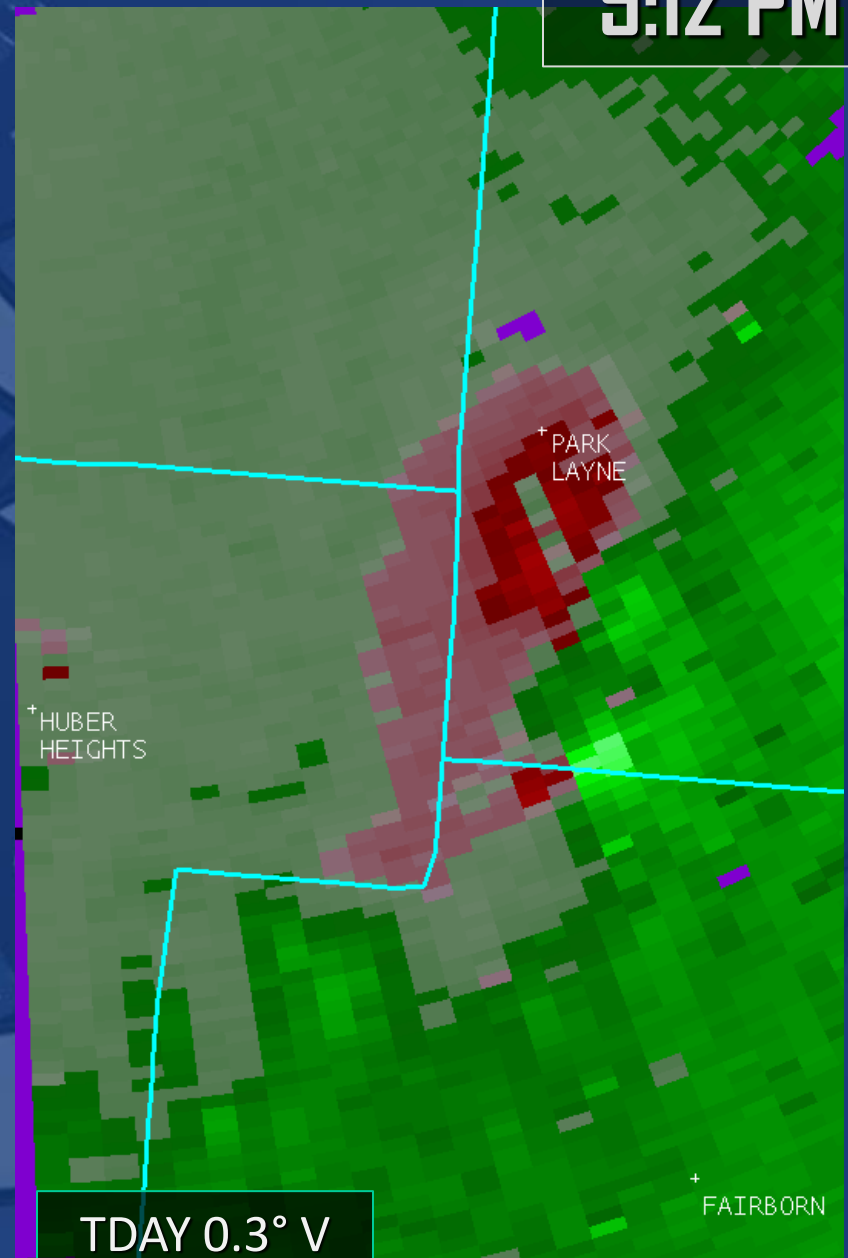
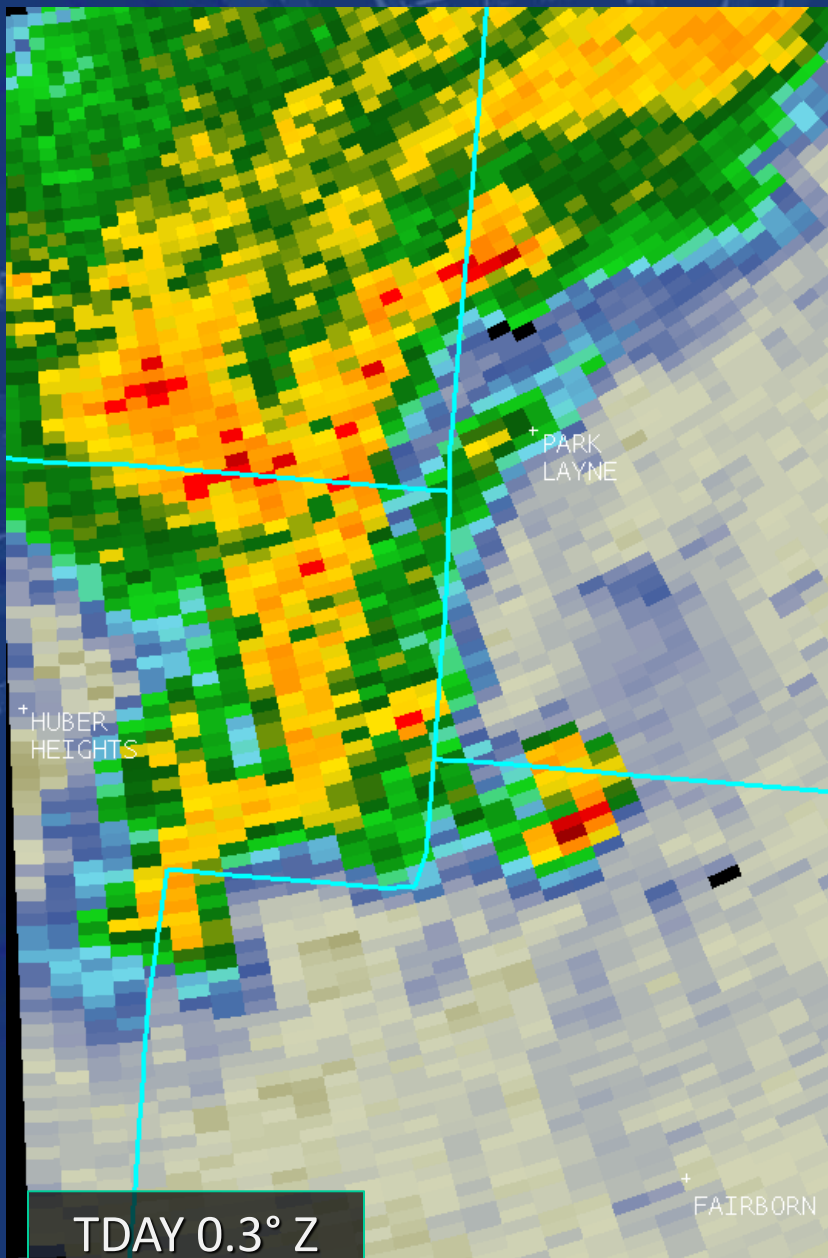
9:11 PM



#4: Fairborn

May 24, 2017

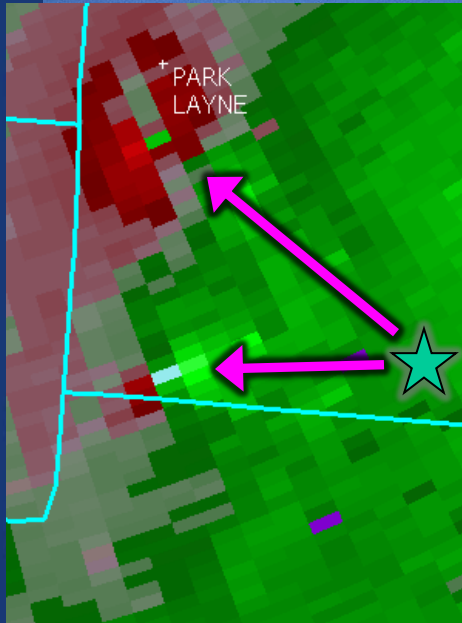
9:12 PM



#4: Fairborn

May 24, 2017

9:12 PM

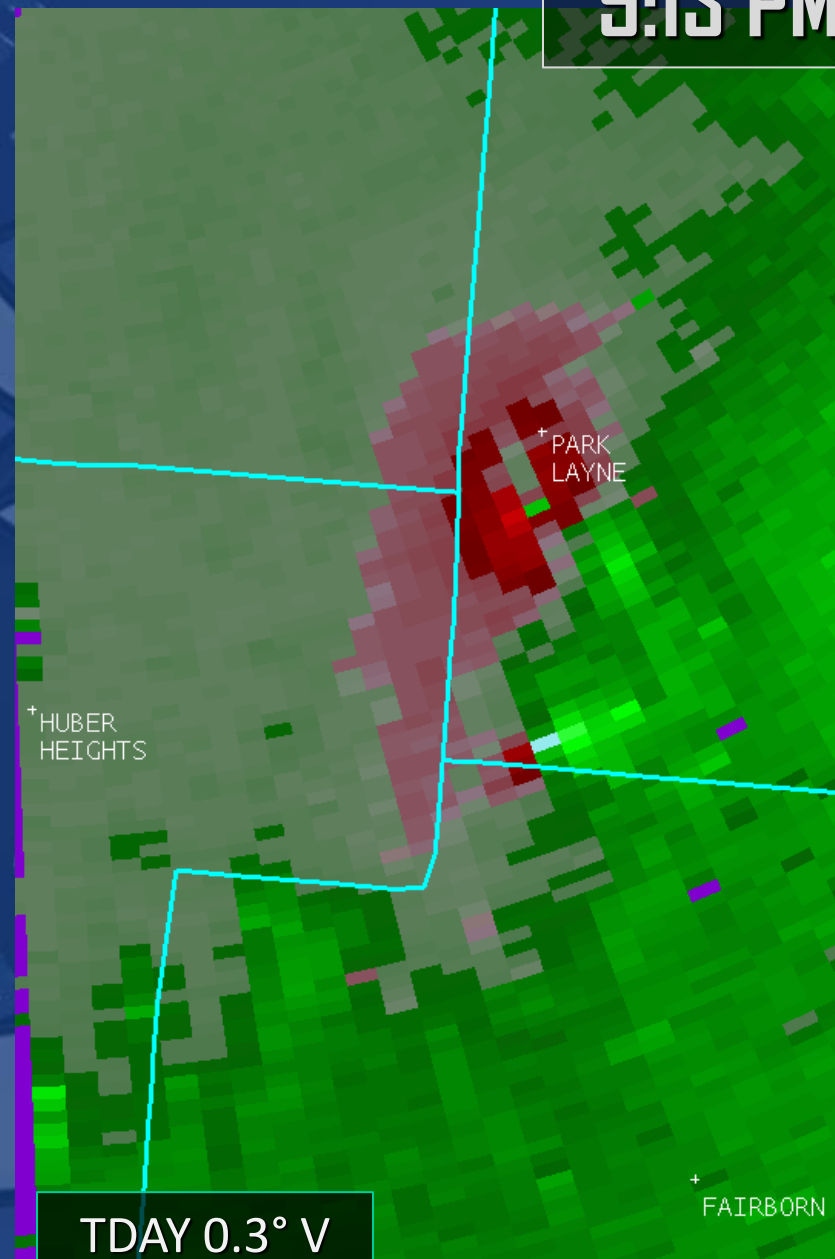
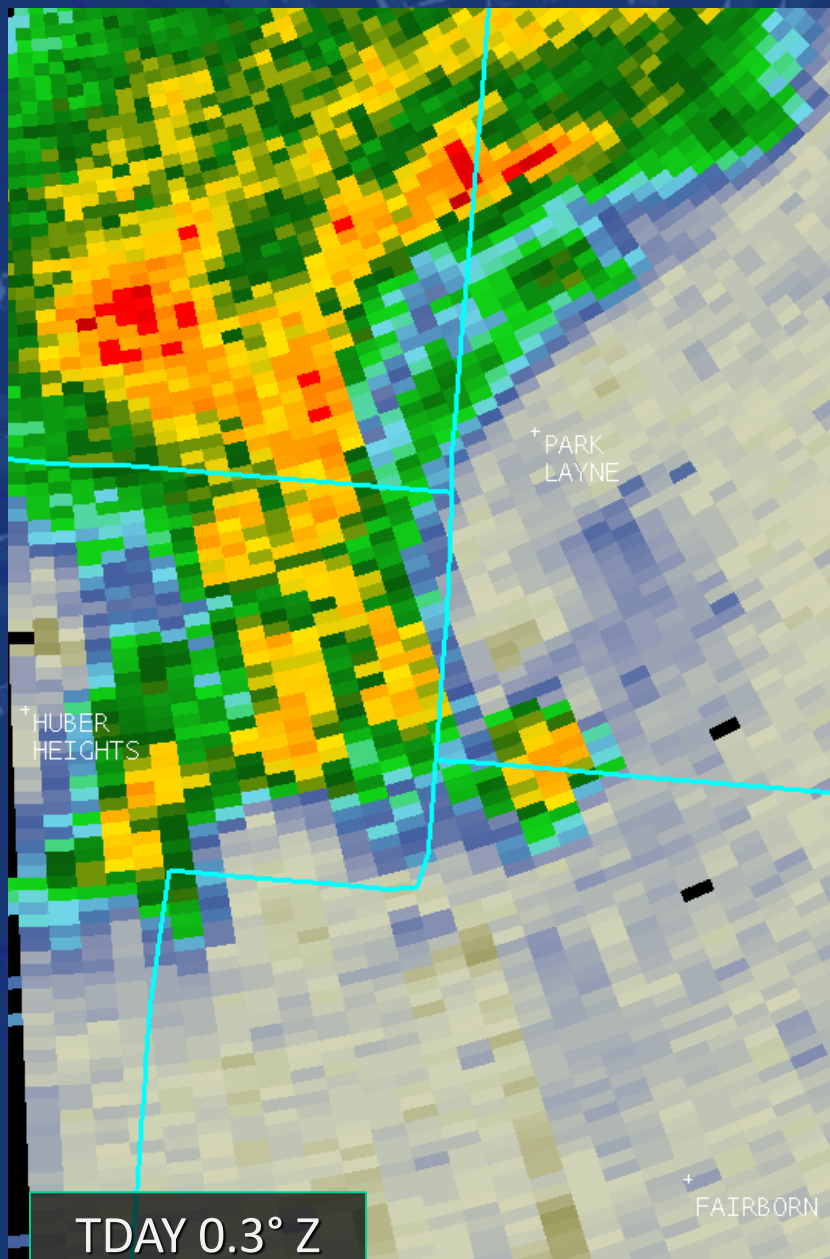


Brady Smith

#4: Fairborn

May 24, 2017

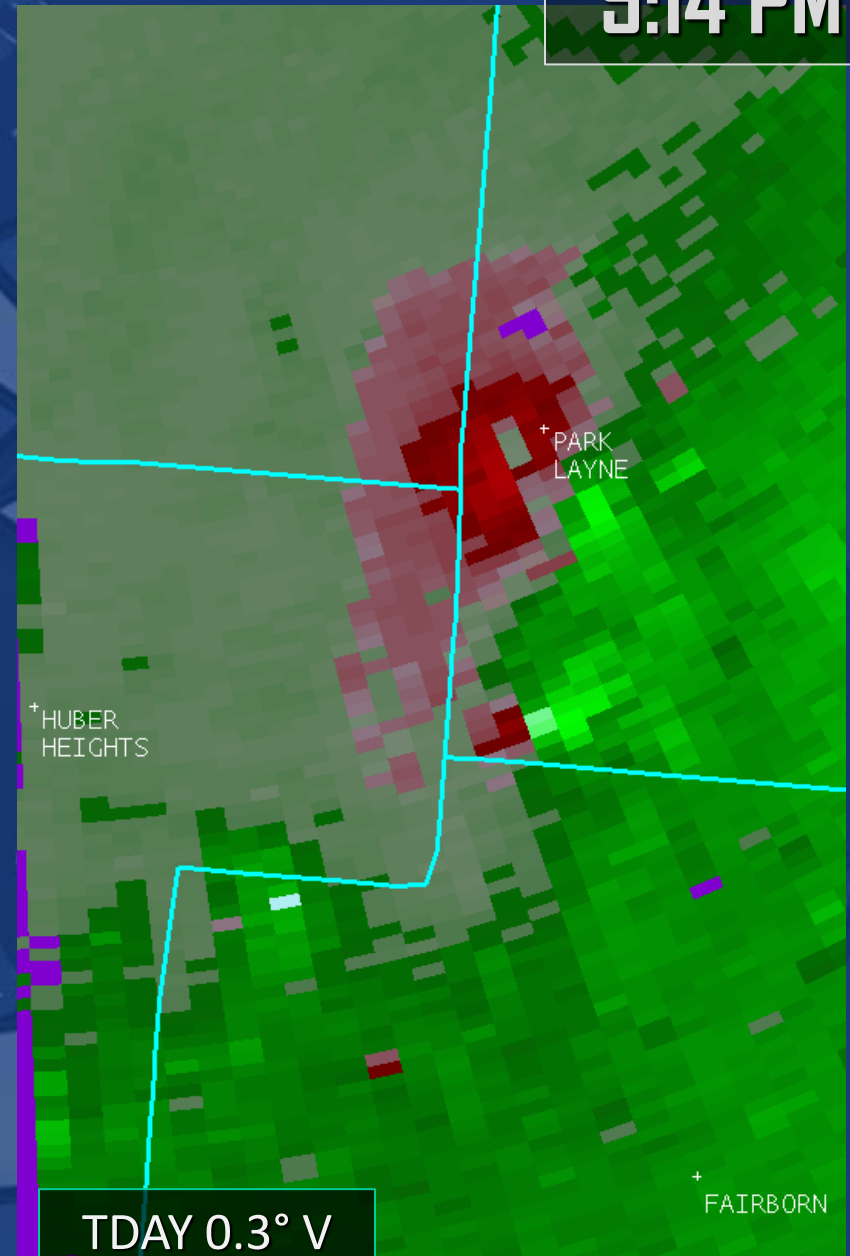
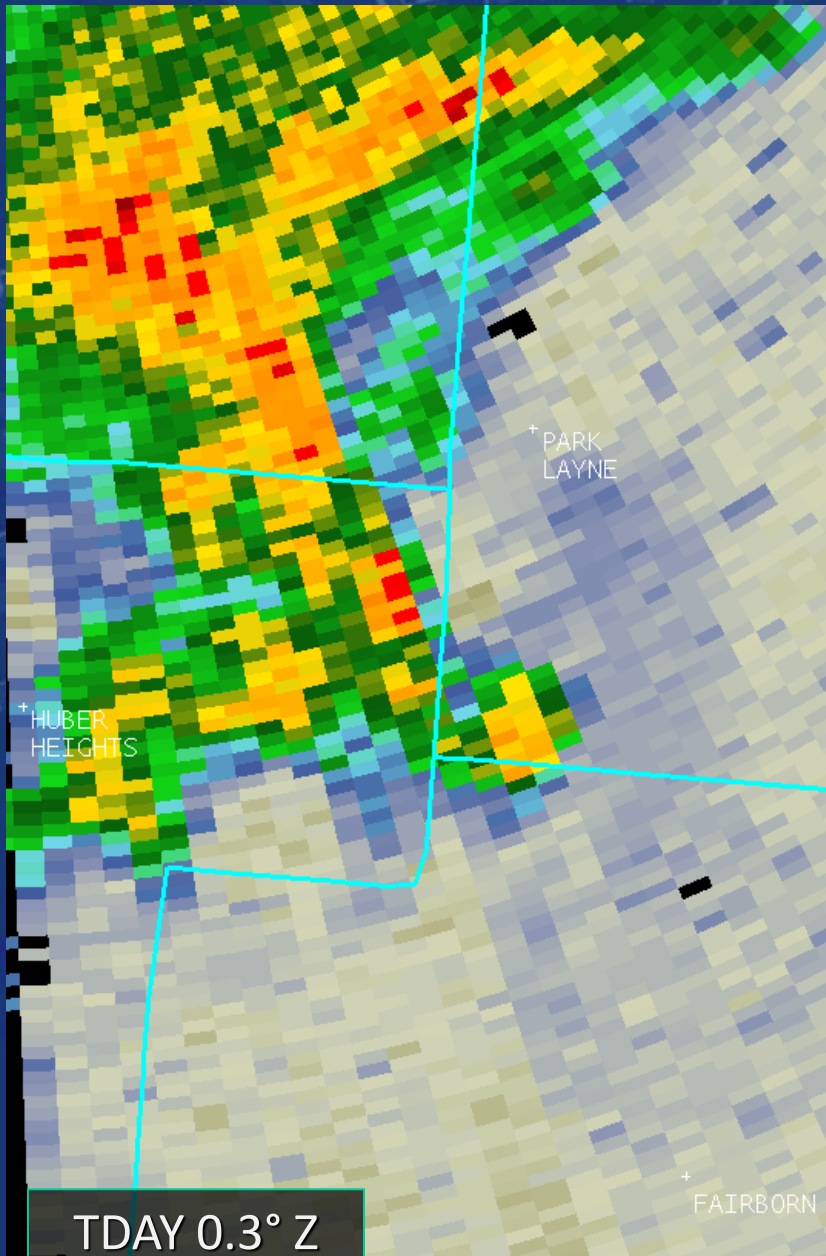
9:13 PM



#4: Fairborn

May 24, 2017

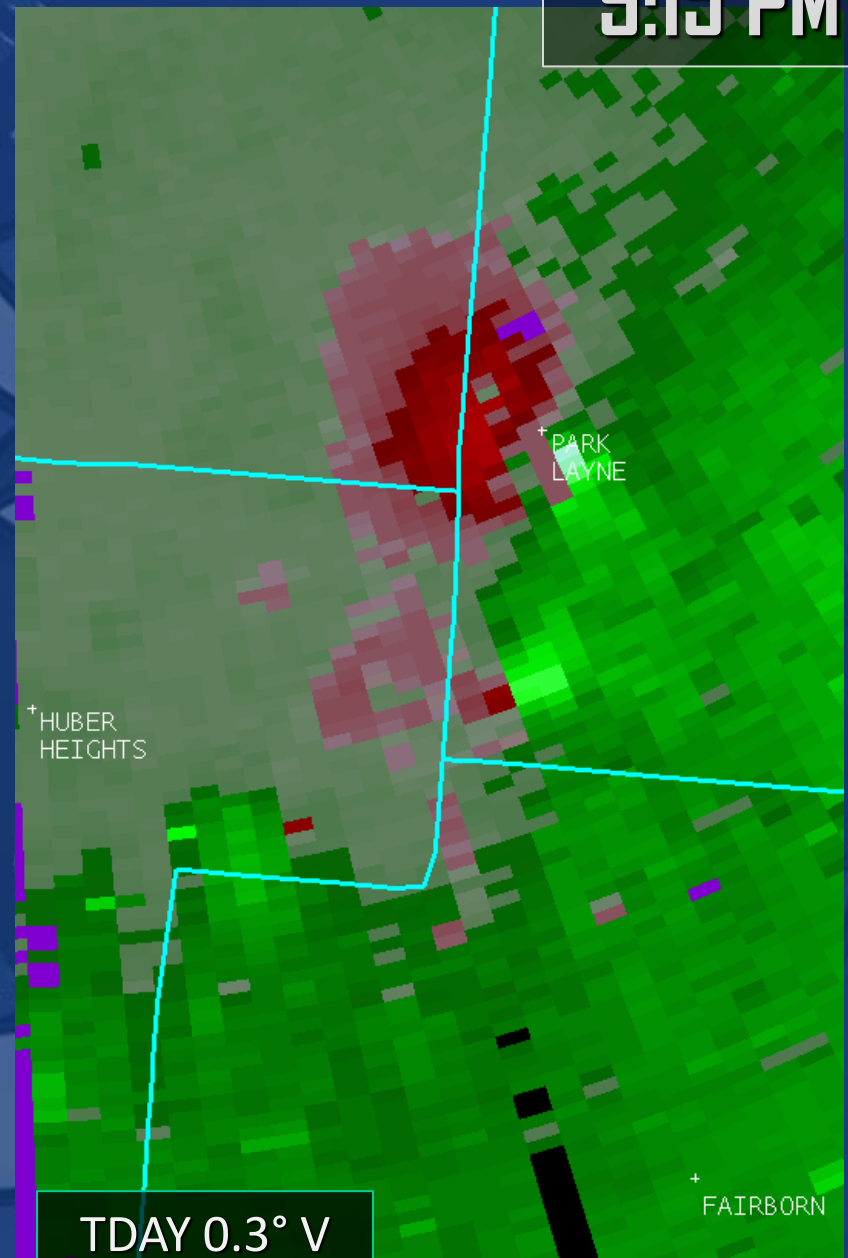
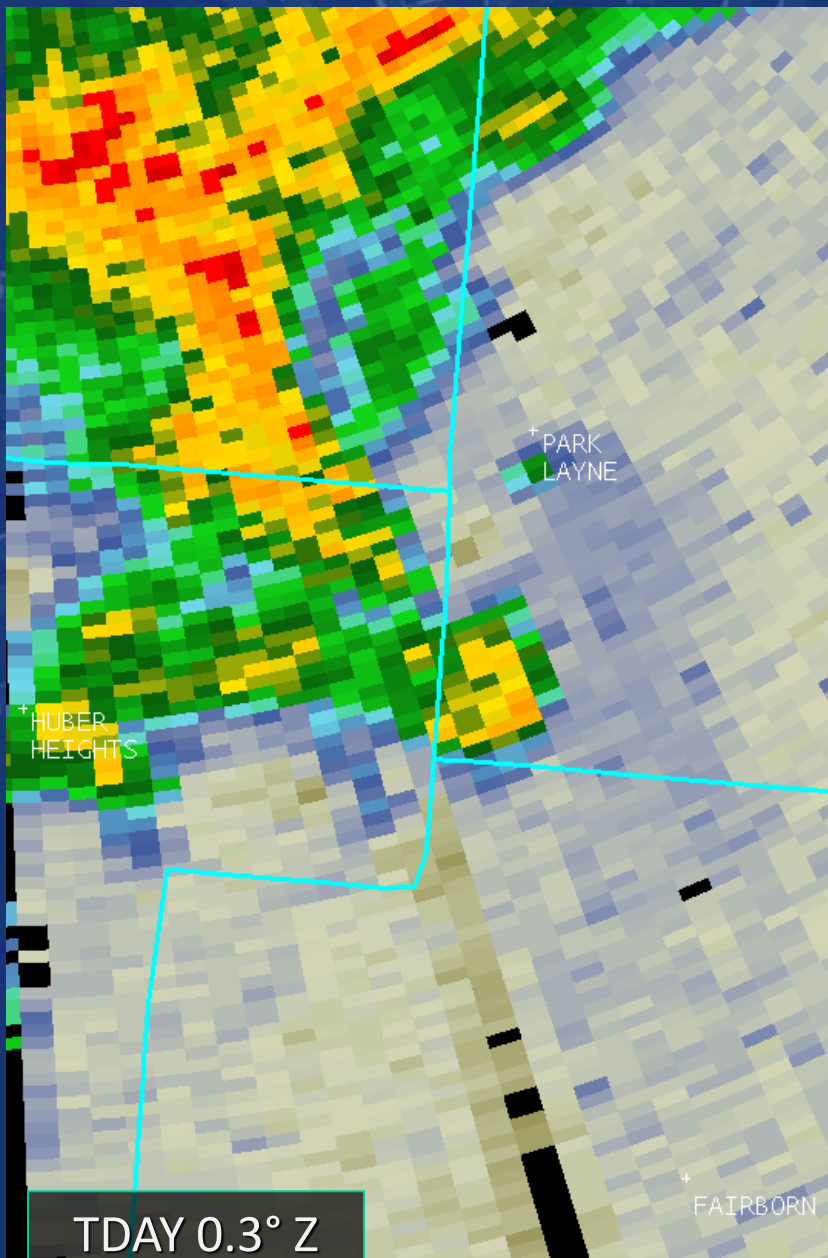
9:14 PM



#4: Fairborn

May 24, 2017

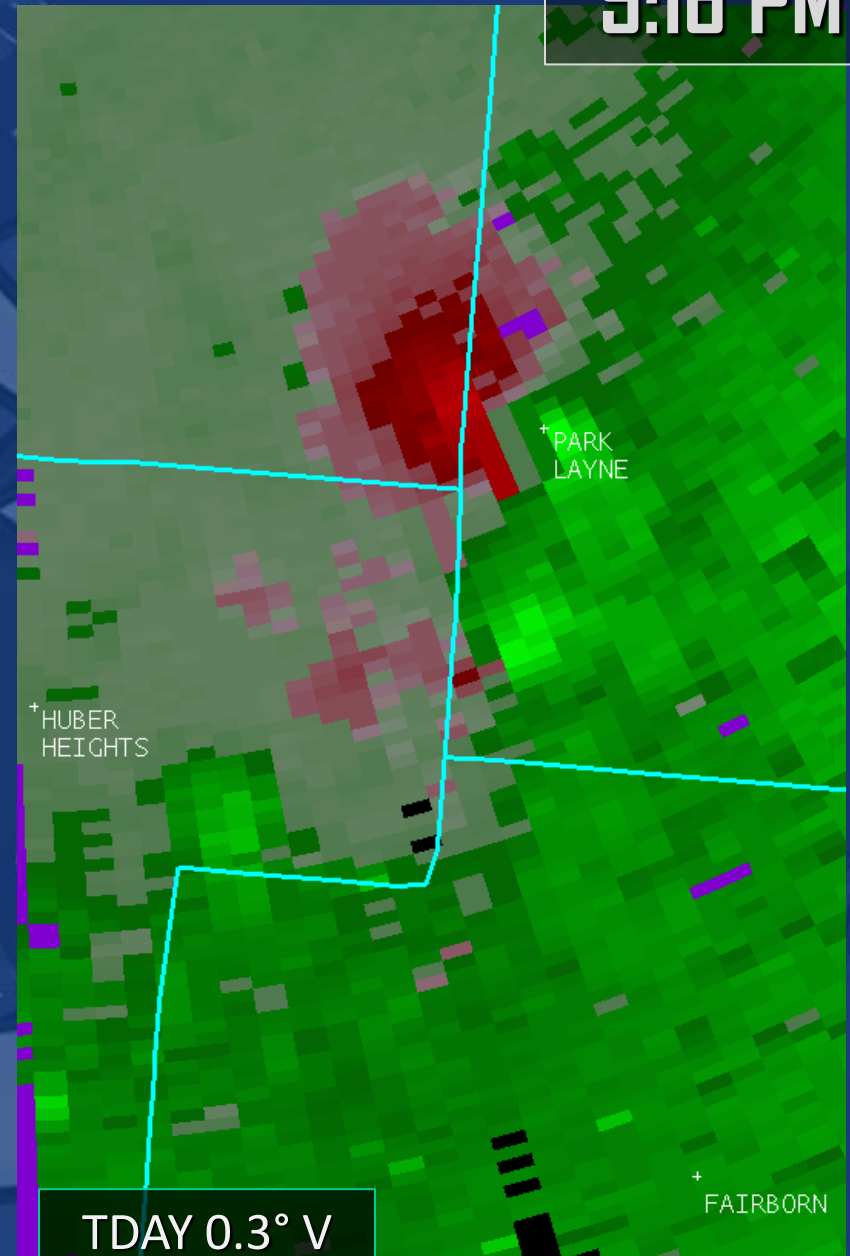
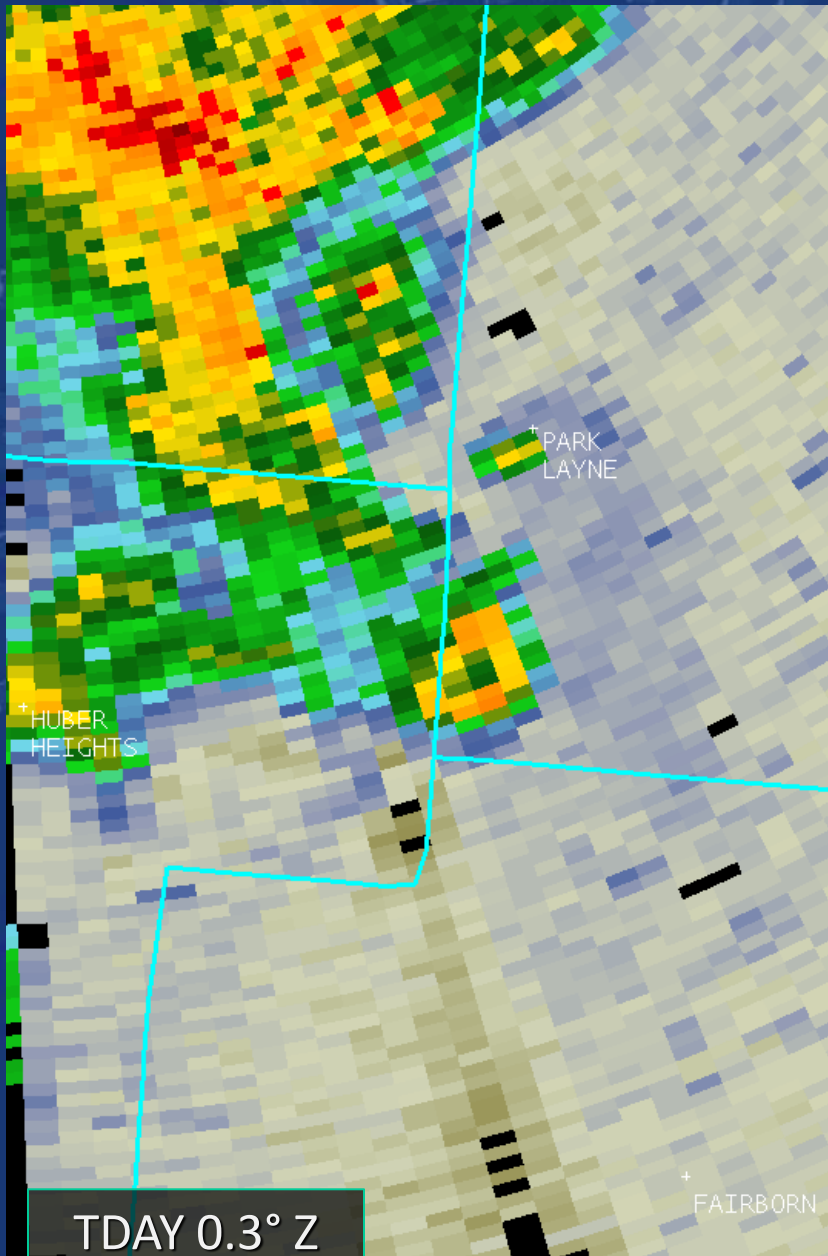
9:15 PM



#4: Fairborn

May 24, 2017

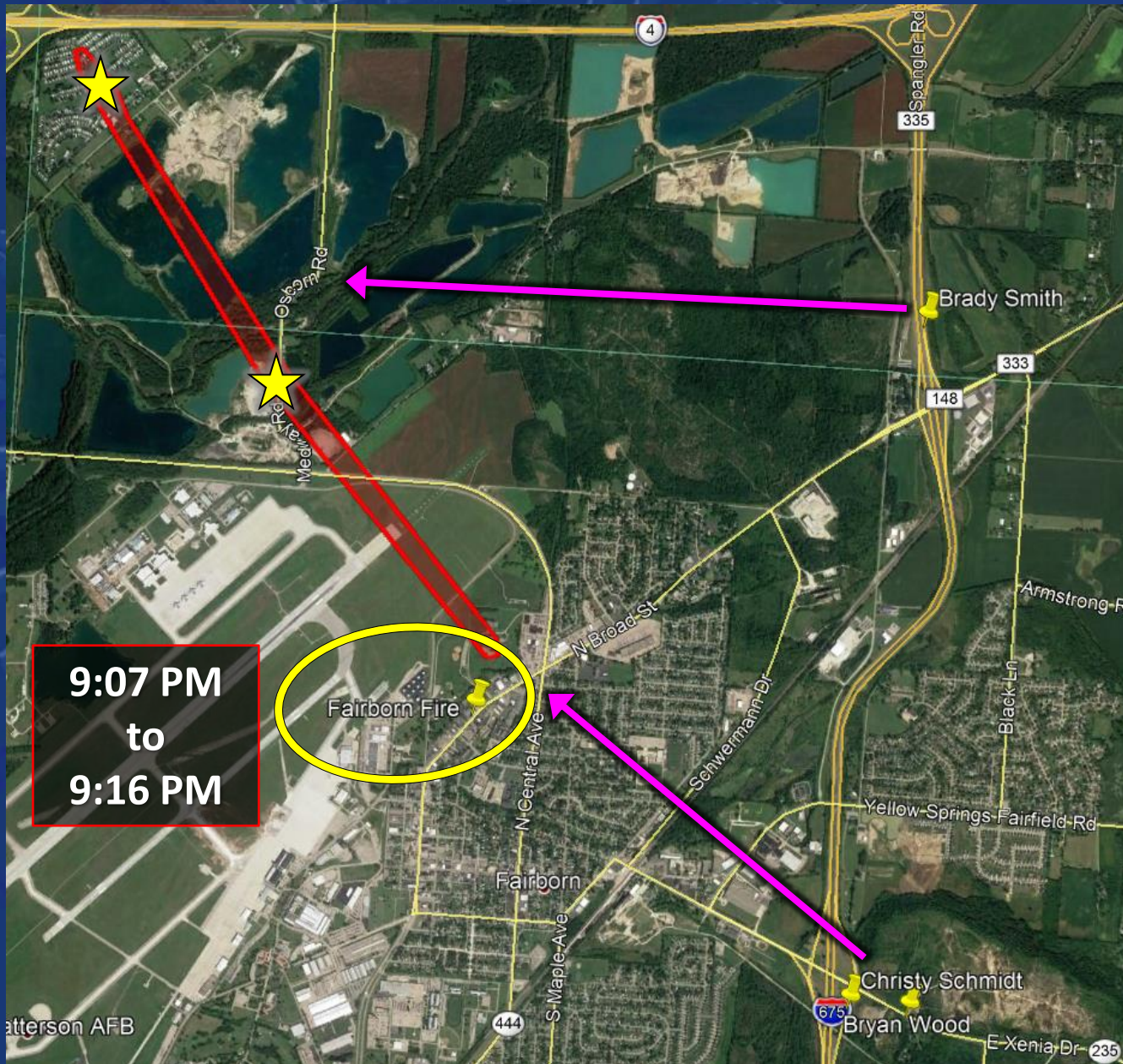
9:16 PM



#4: Fairborn

May 24, 2017

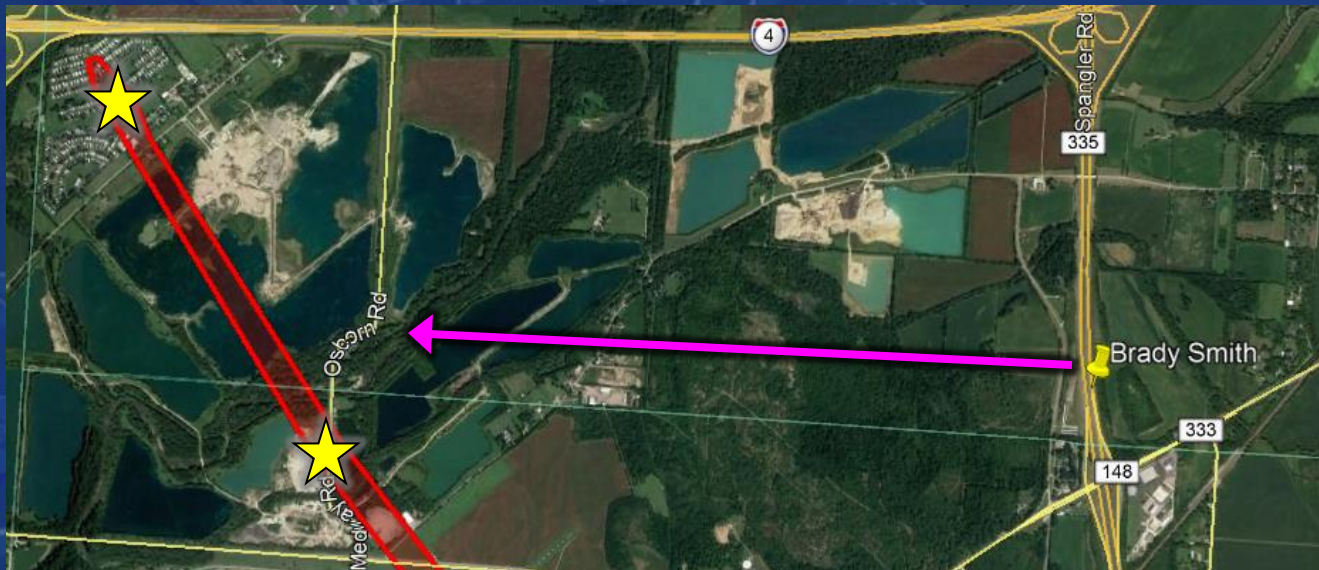
9:16 PM



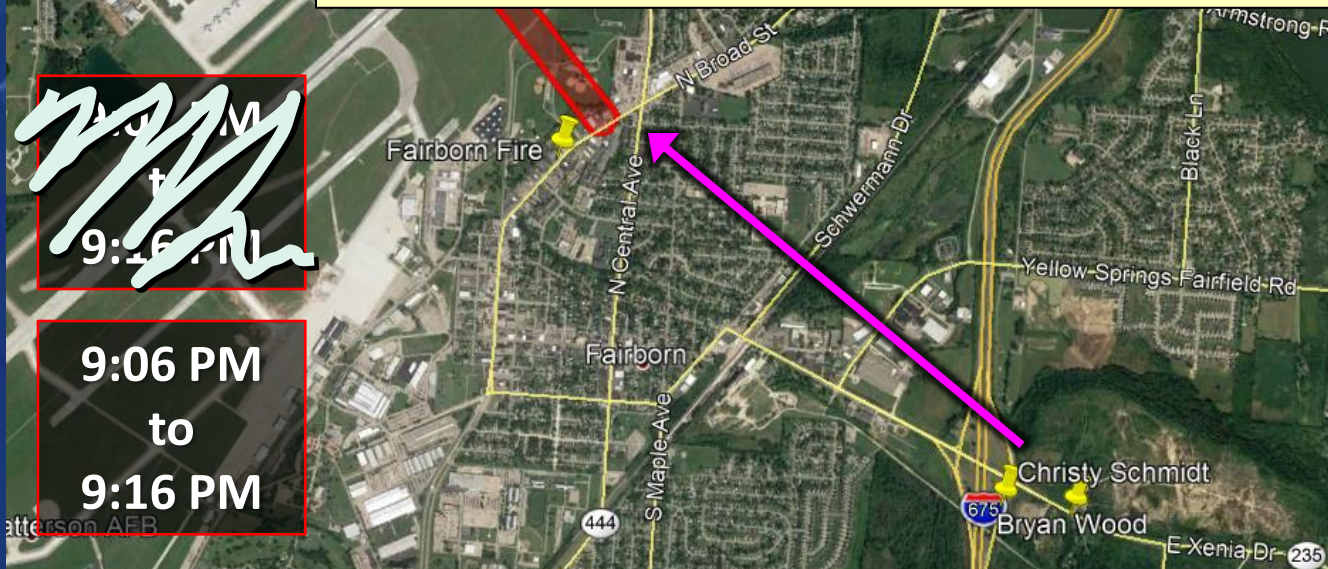
#4: Fairborn

May 24, 2017

9:16 PM



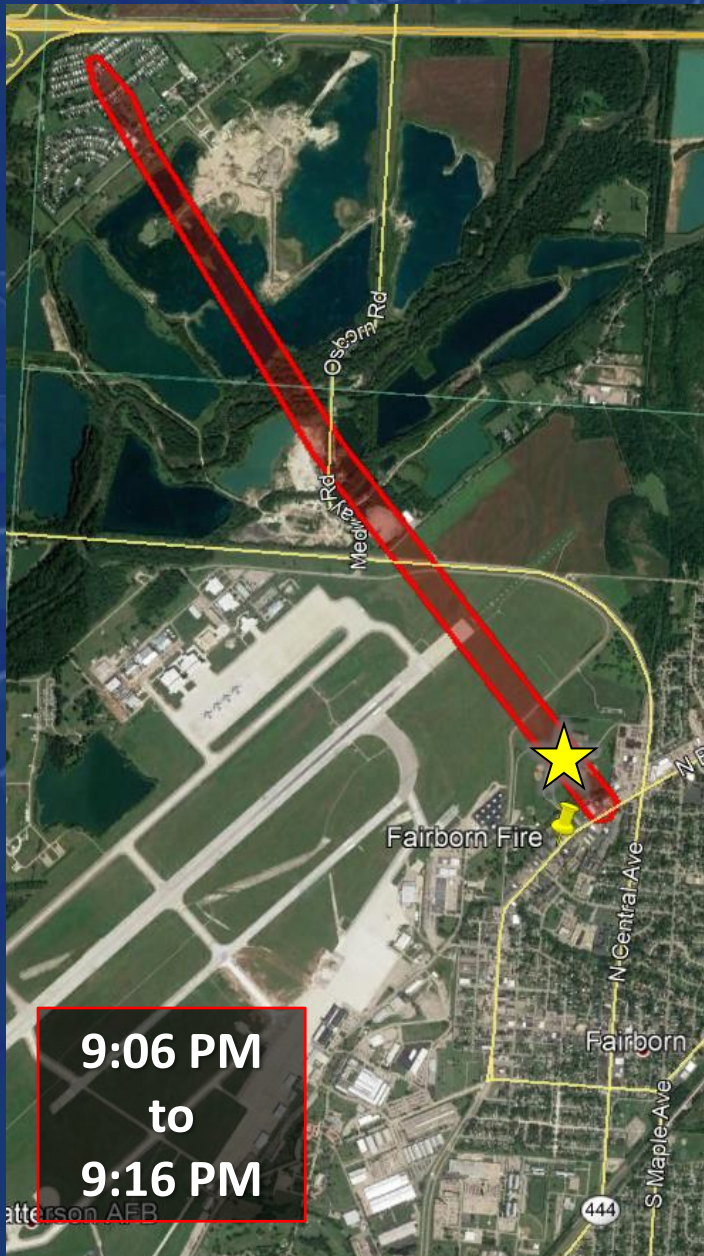
METAR KFFO 250118Z 10005KT 10SM VCTS -SHRA BKN017
OVC024 17/17 A2934 RMK AO2A **TORNADO 3 NE MOV N** SLP935



#4: Fairborn

May 24, 2017

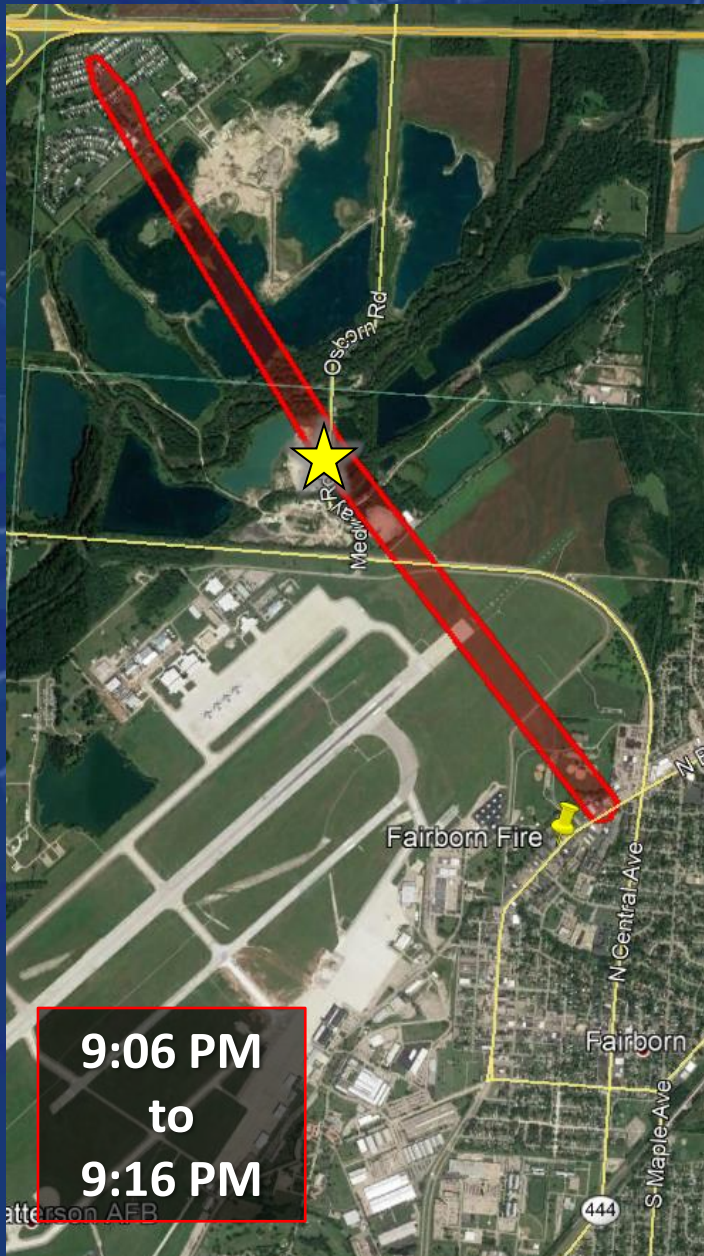
9:16 PM



#4: Fairborn

May 24, 2017

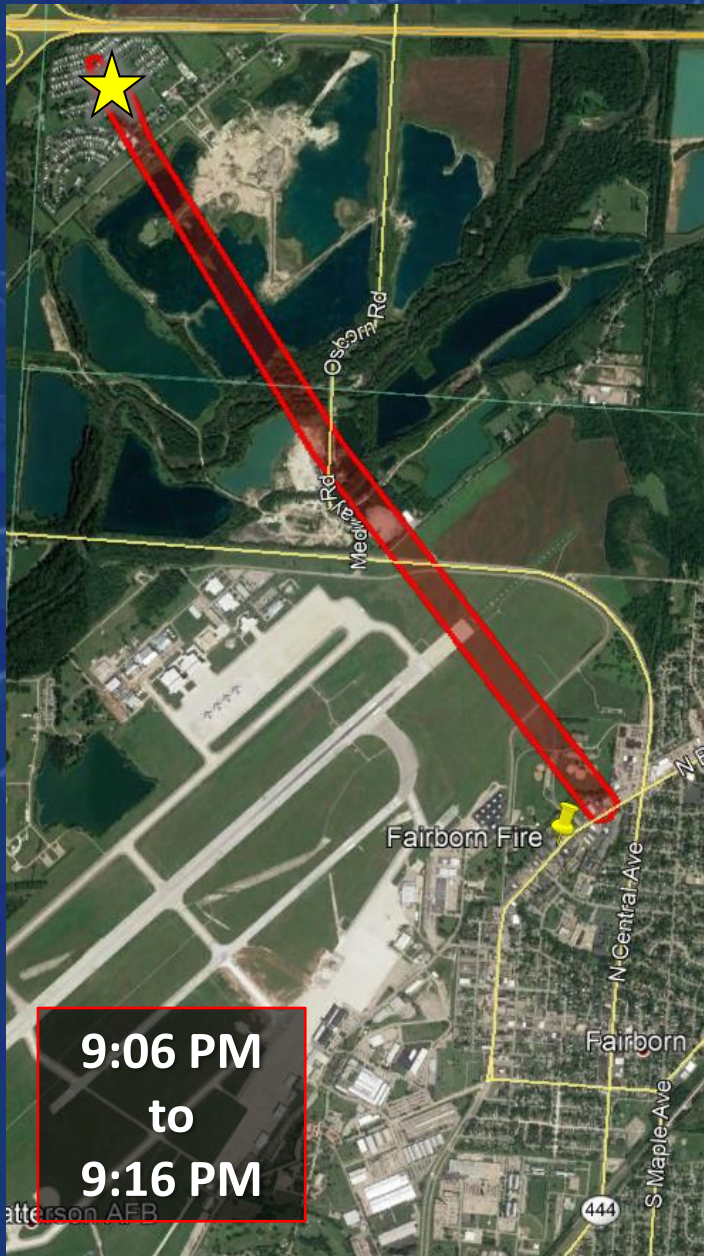
9:16 PM



#4: Fairborn

May 24, 2017

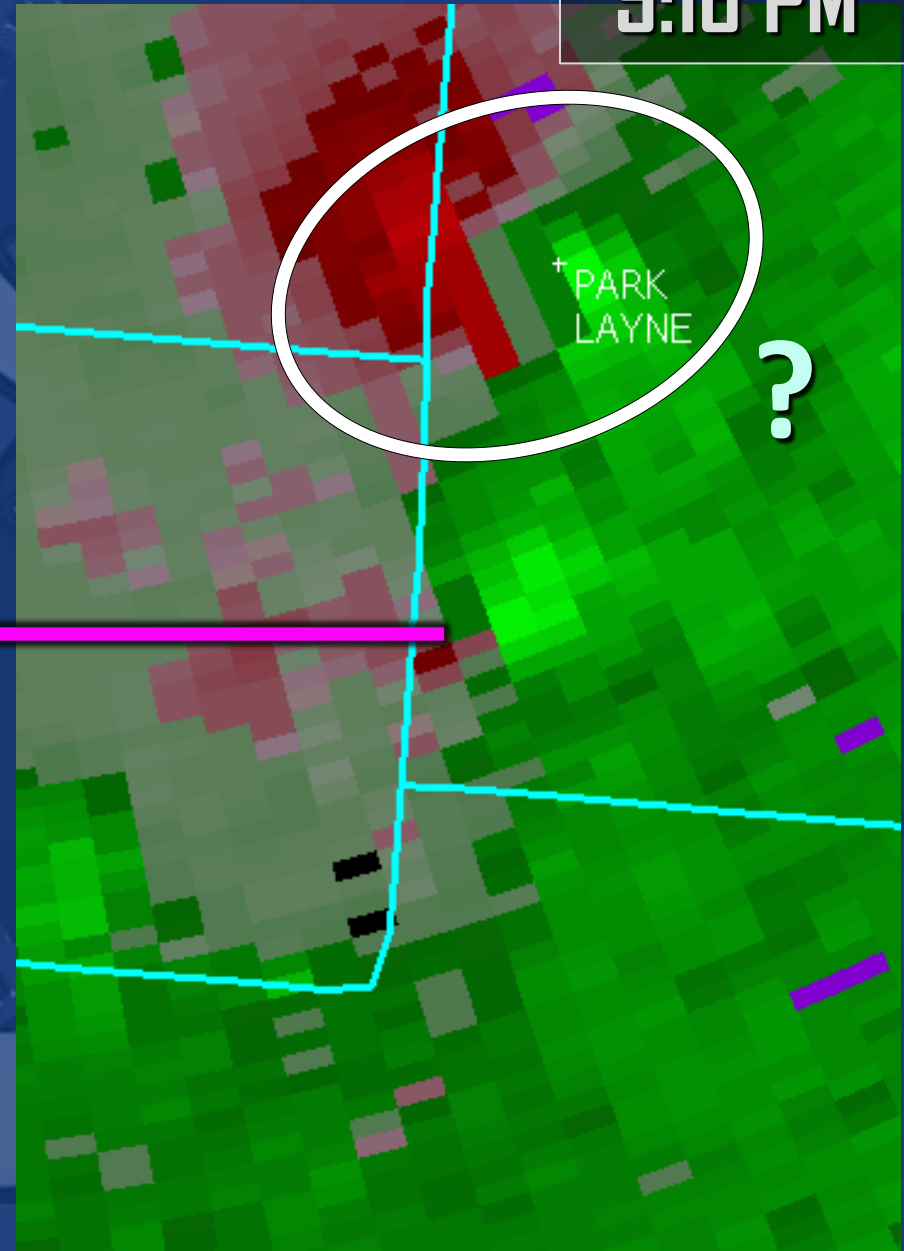
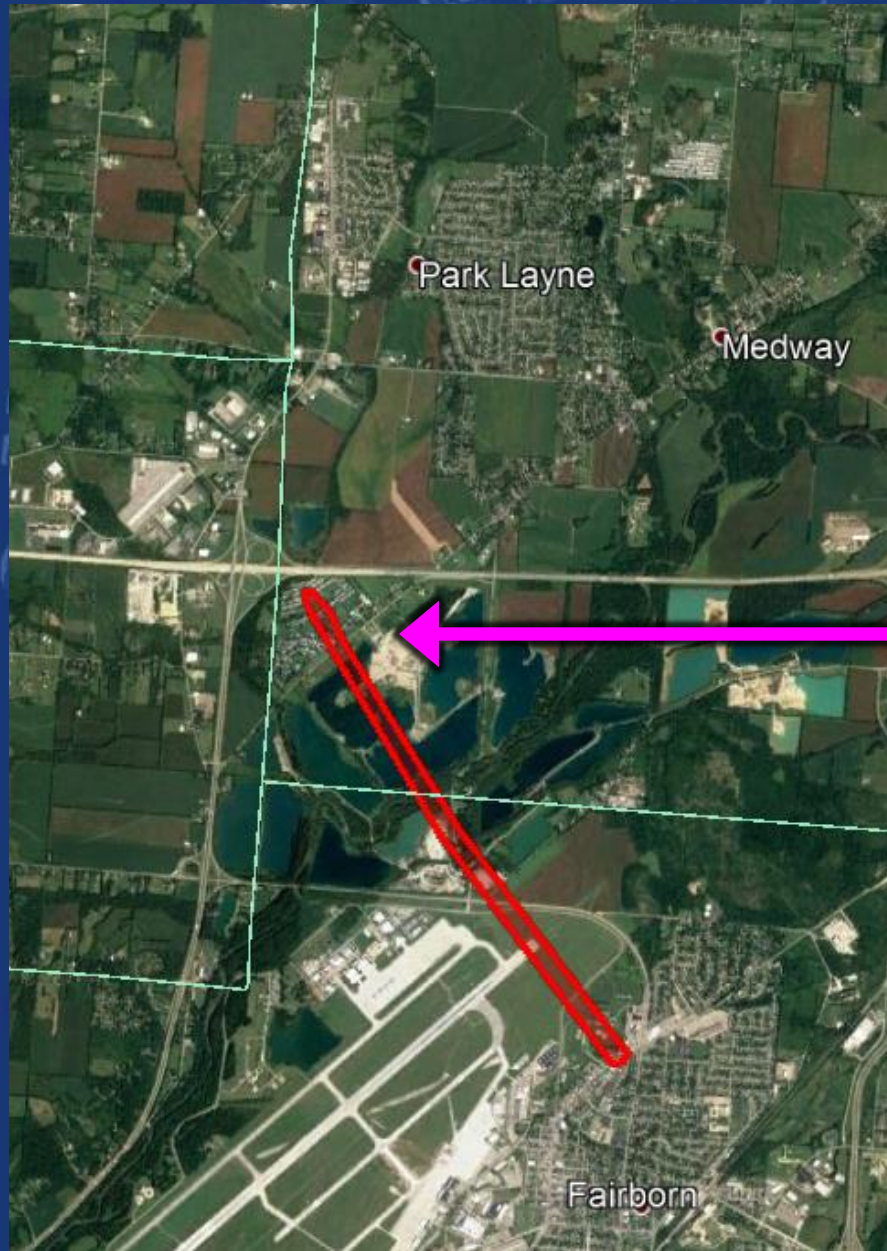
9:16 PM



#4: Fairborn

May 24, 2017

9:16 PM



#5: Park Layne

May 24, 2017

9:16 PM

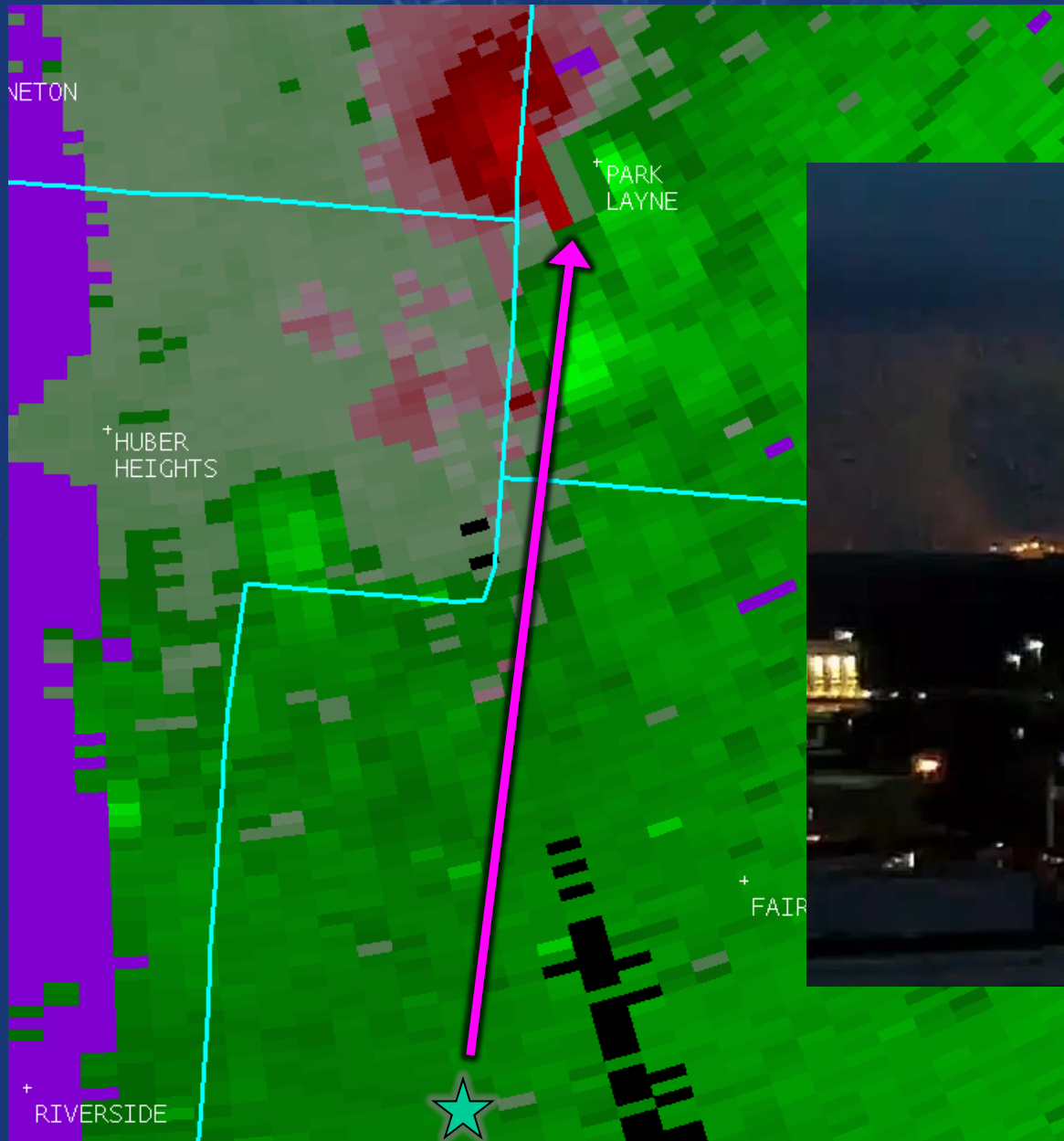


Eric Elwell / WHIO

#5: Park Layne

May 24, 2017

9:16 PM



Eric Elwell / WHIO

#5: Park Layne

May 24, 2017

9:16 PM

2017-05-24 21:17:06

W 288 / - 10

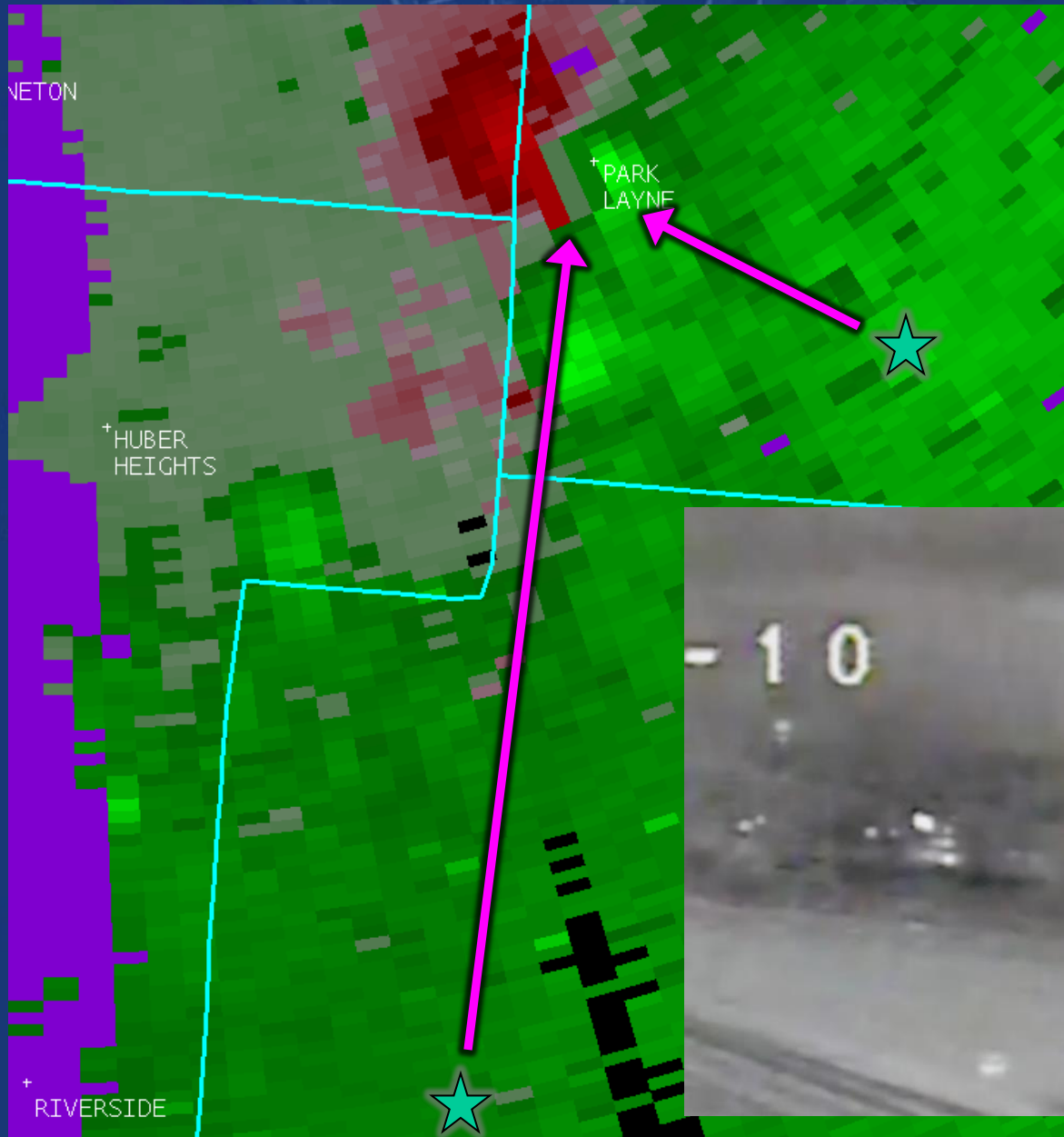


ODOT

#5: Park Layne

May 24, 2017

9:16 PM



ODOT

#5: Park Layne

May 24, 2017

9:16 PM



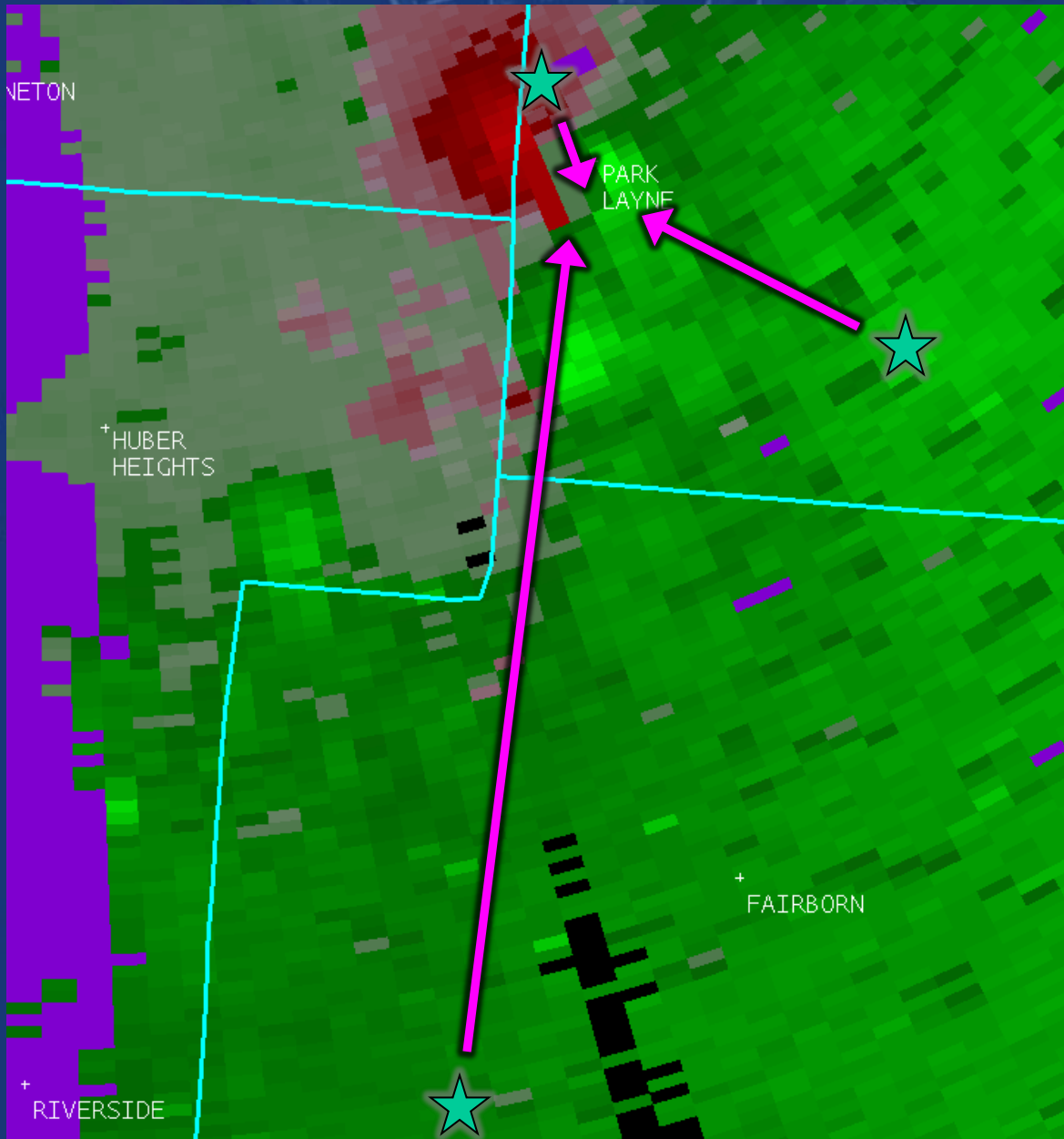
STORMCENTER 7

Eric Elwell / WHIO

#5: Park Layne

May 24, 2017

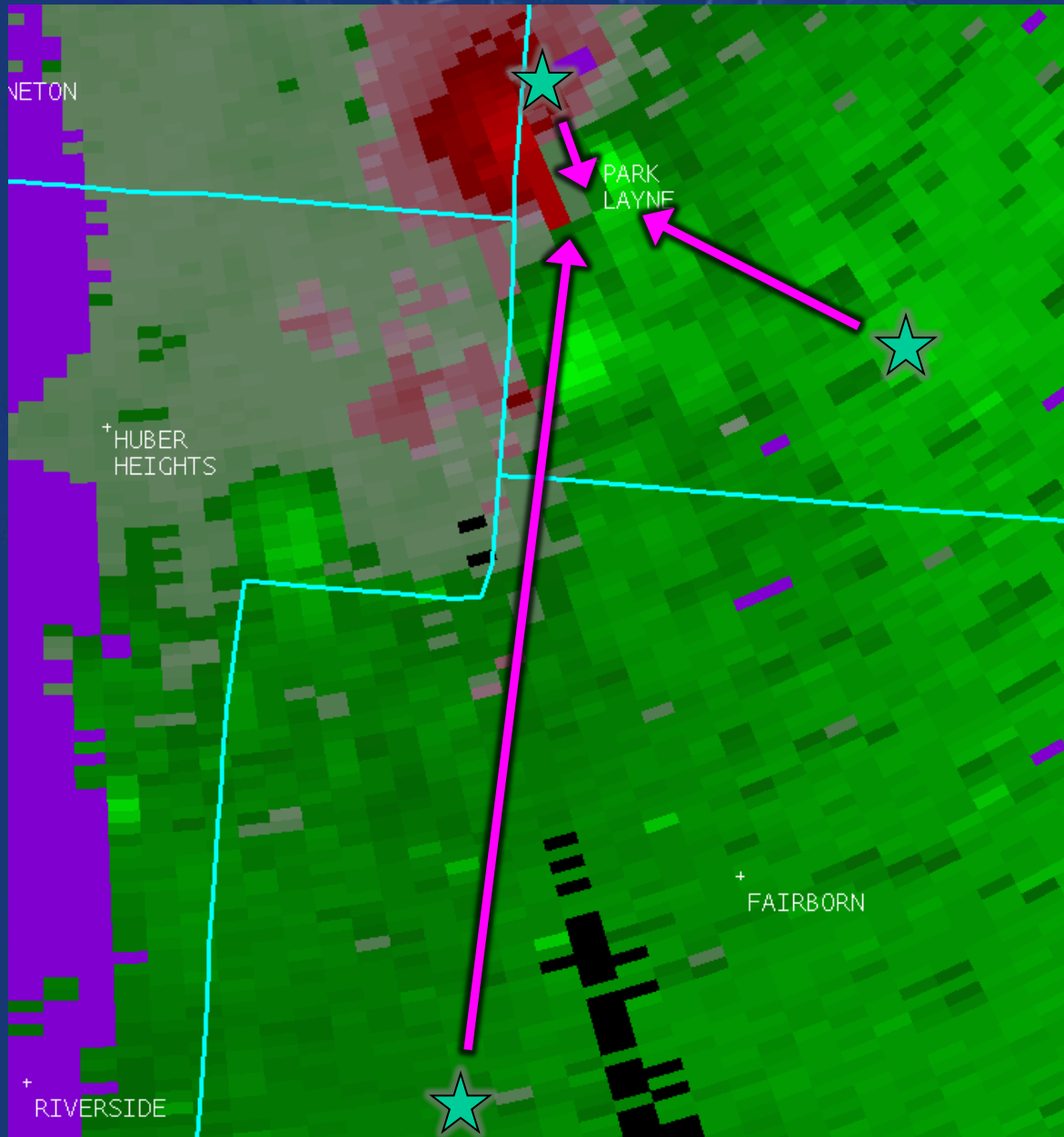
9:16 PM



#5: Park Layne

May 24, 2017

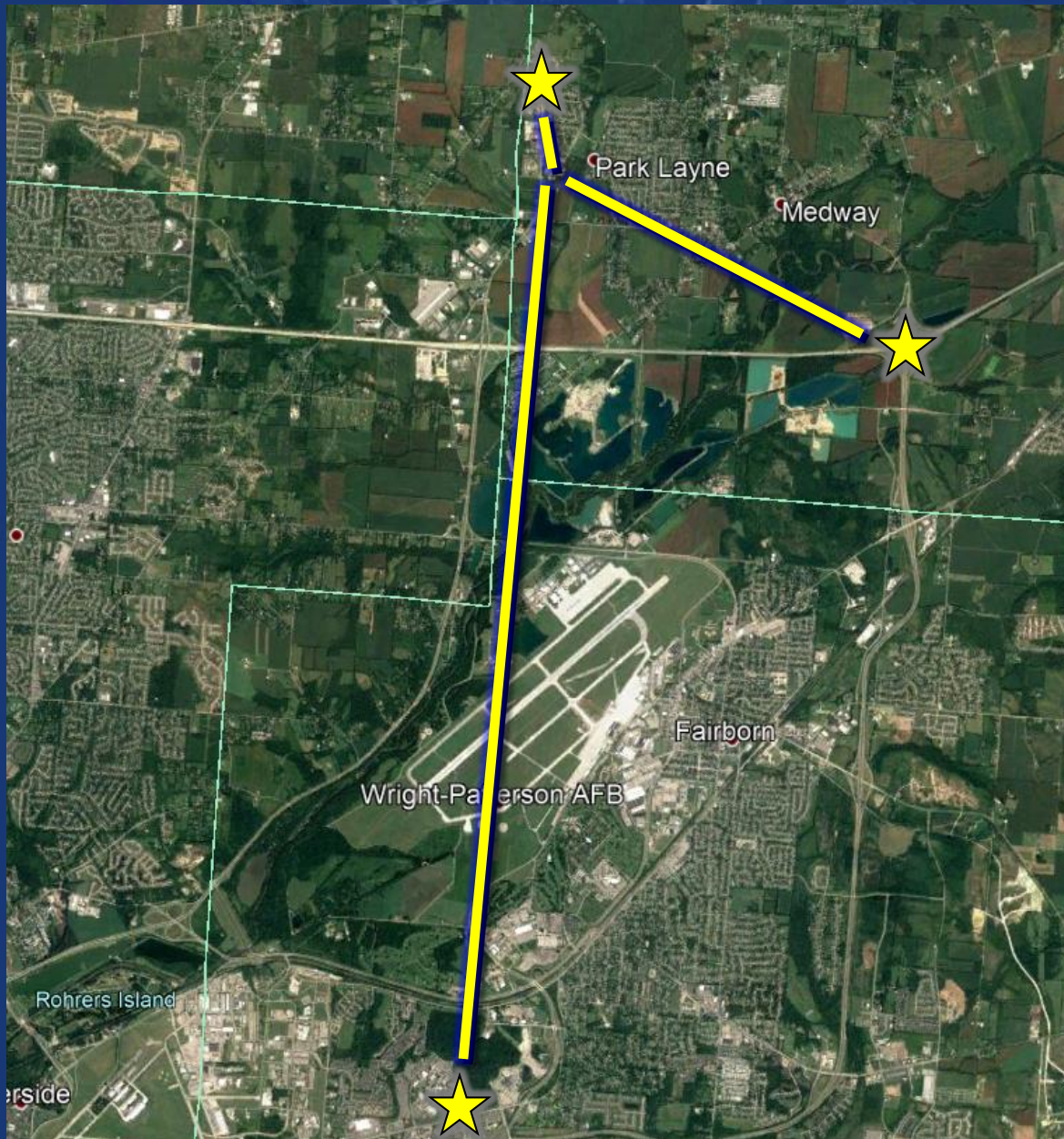
9:16 PM



#5: Park Layne

May 24, 2017

9:16 PM



#5: Park Layne

May 24, 2017

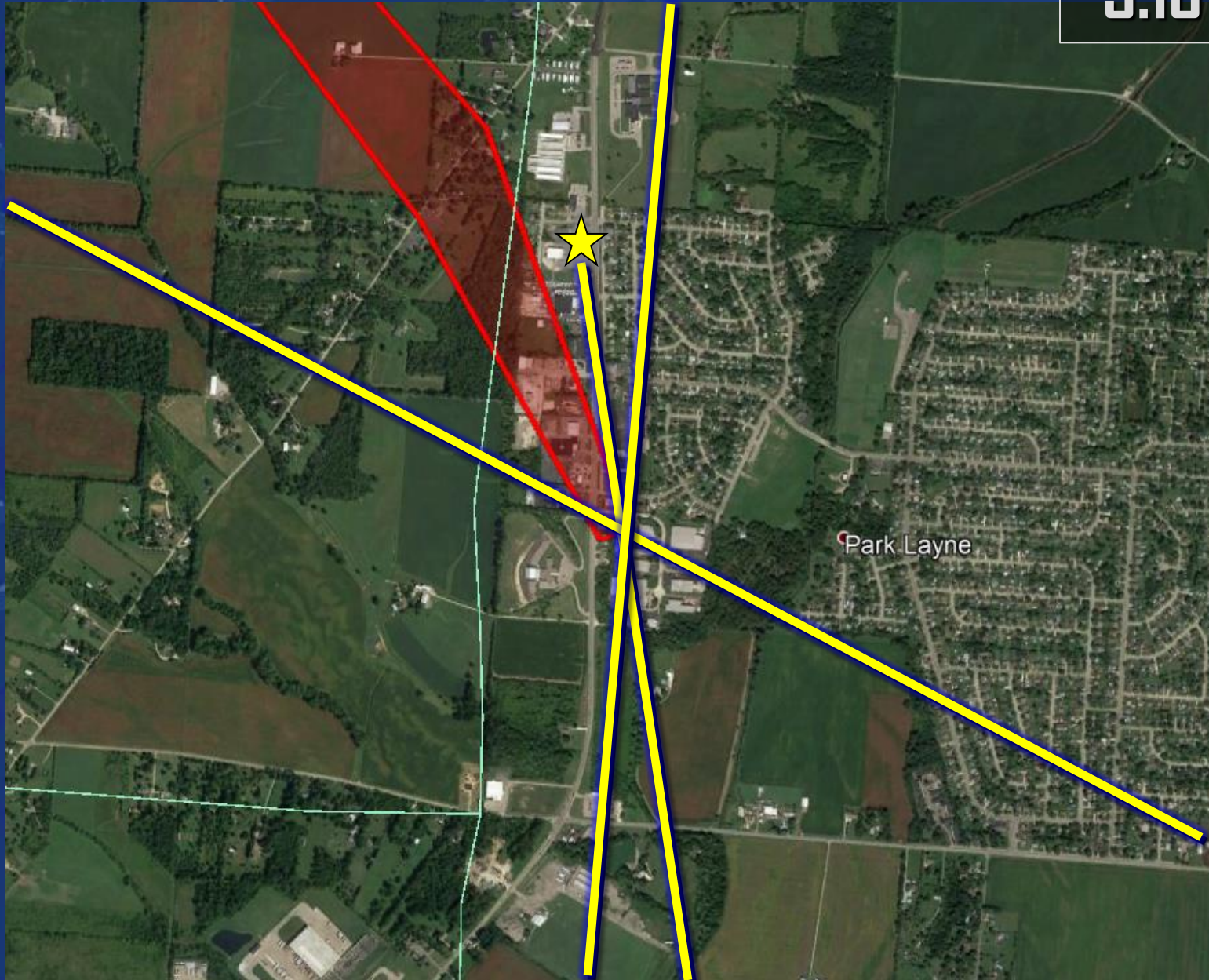
9:16 PM



#5: Park Layne

May 24, 2017

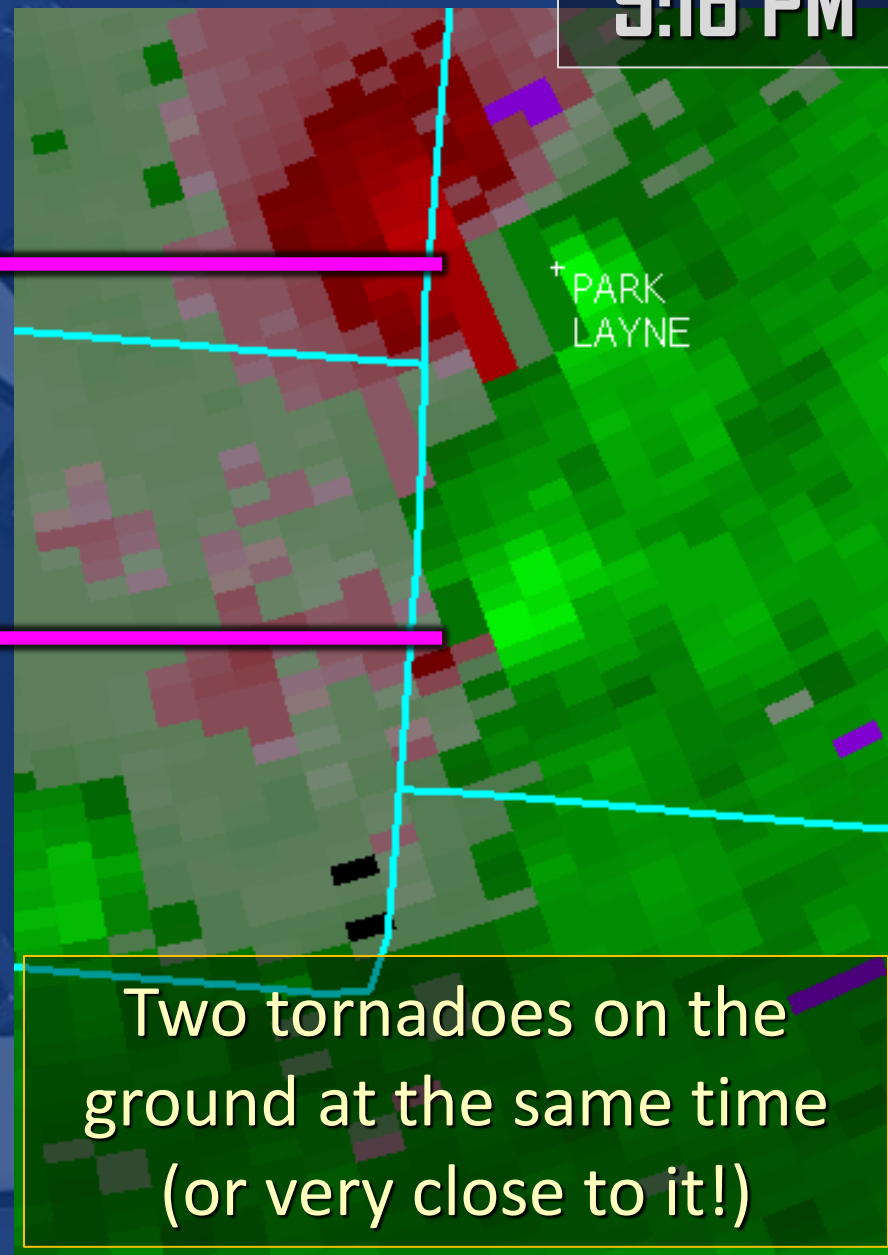
9:16 PM



#5: Park Layne

May 24, 2017

9:16 PM

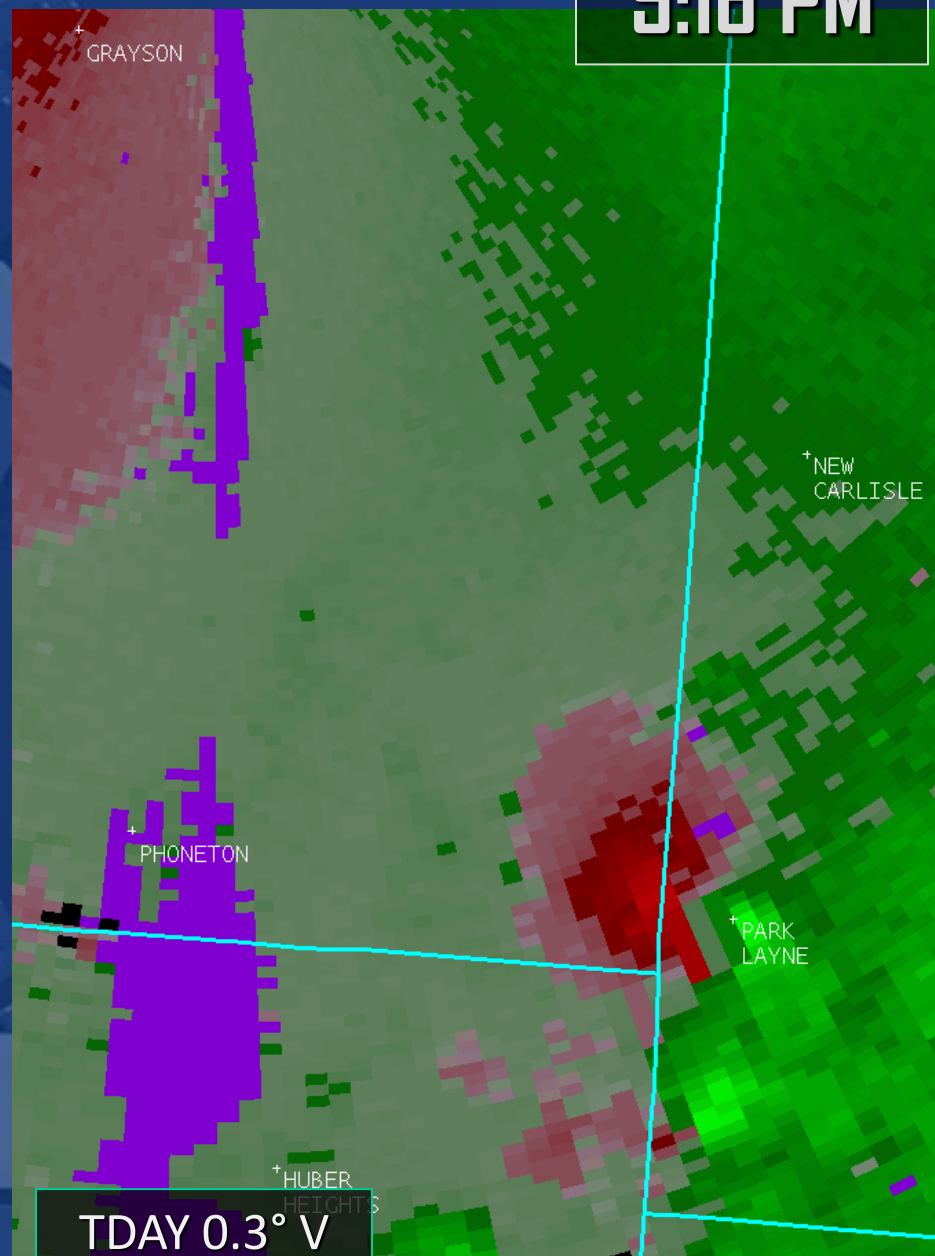
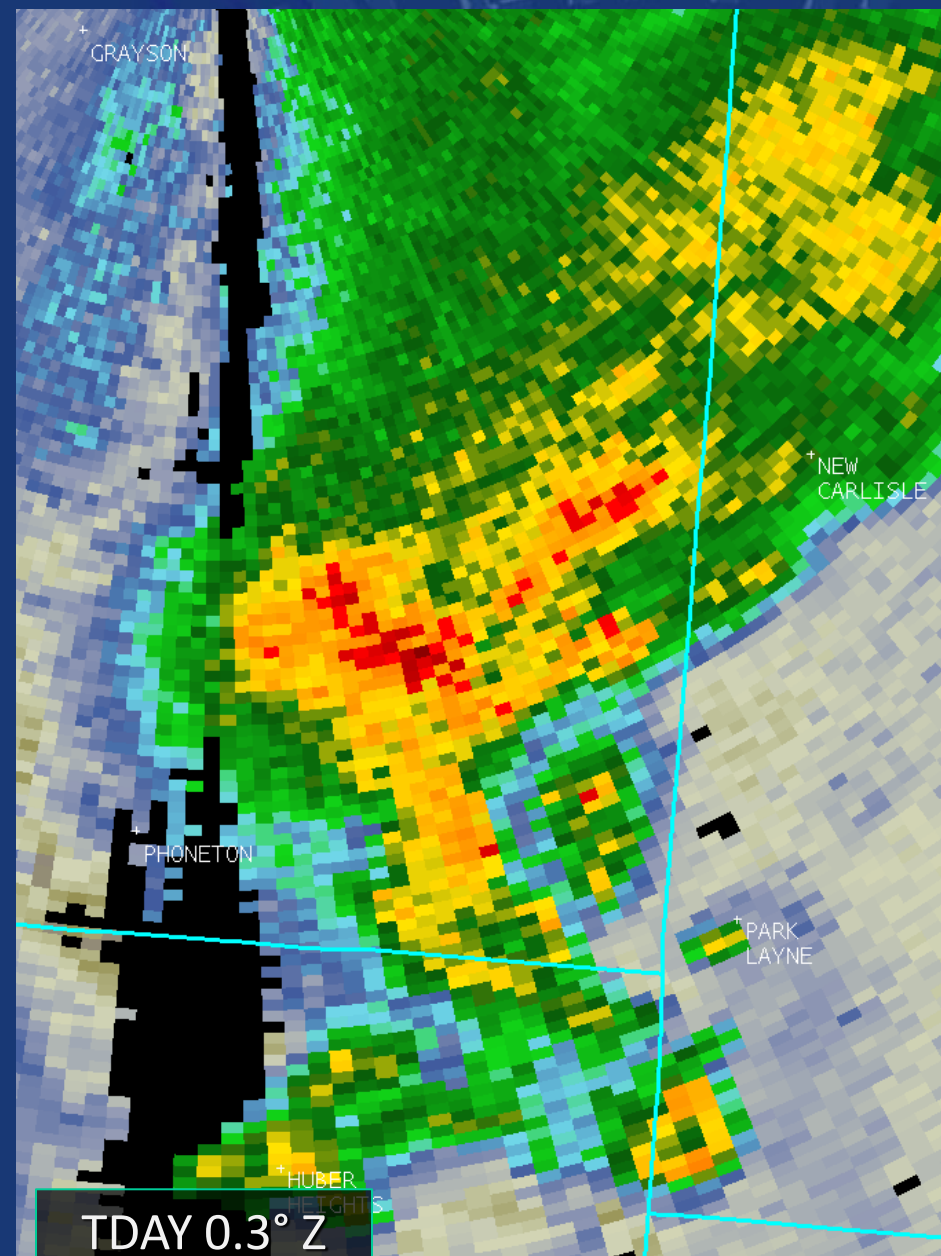


Two tornadoes on the ground at the same time (or very close to it!)

#5: Park Layne

May 24, 2017

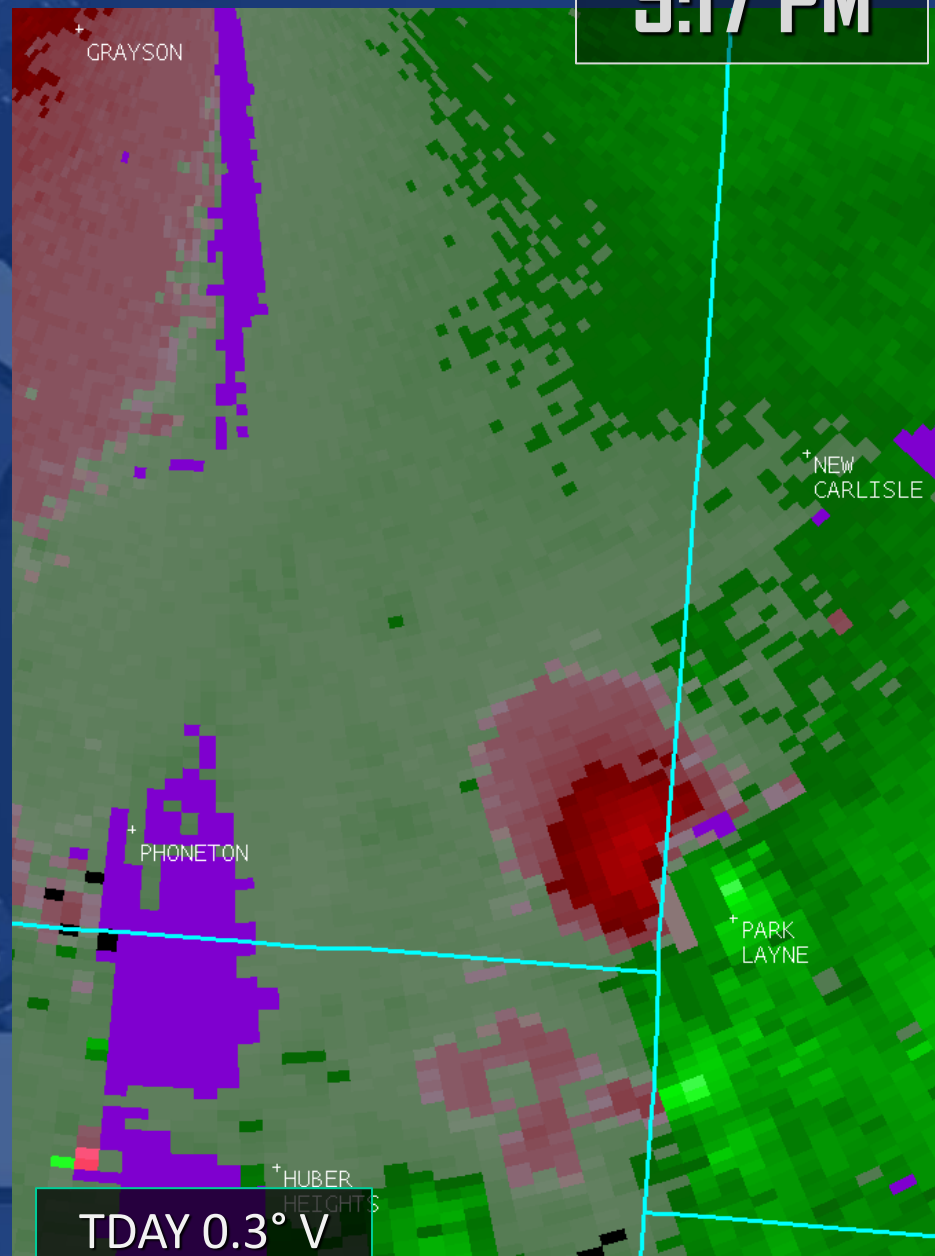
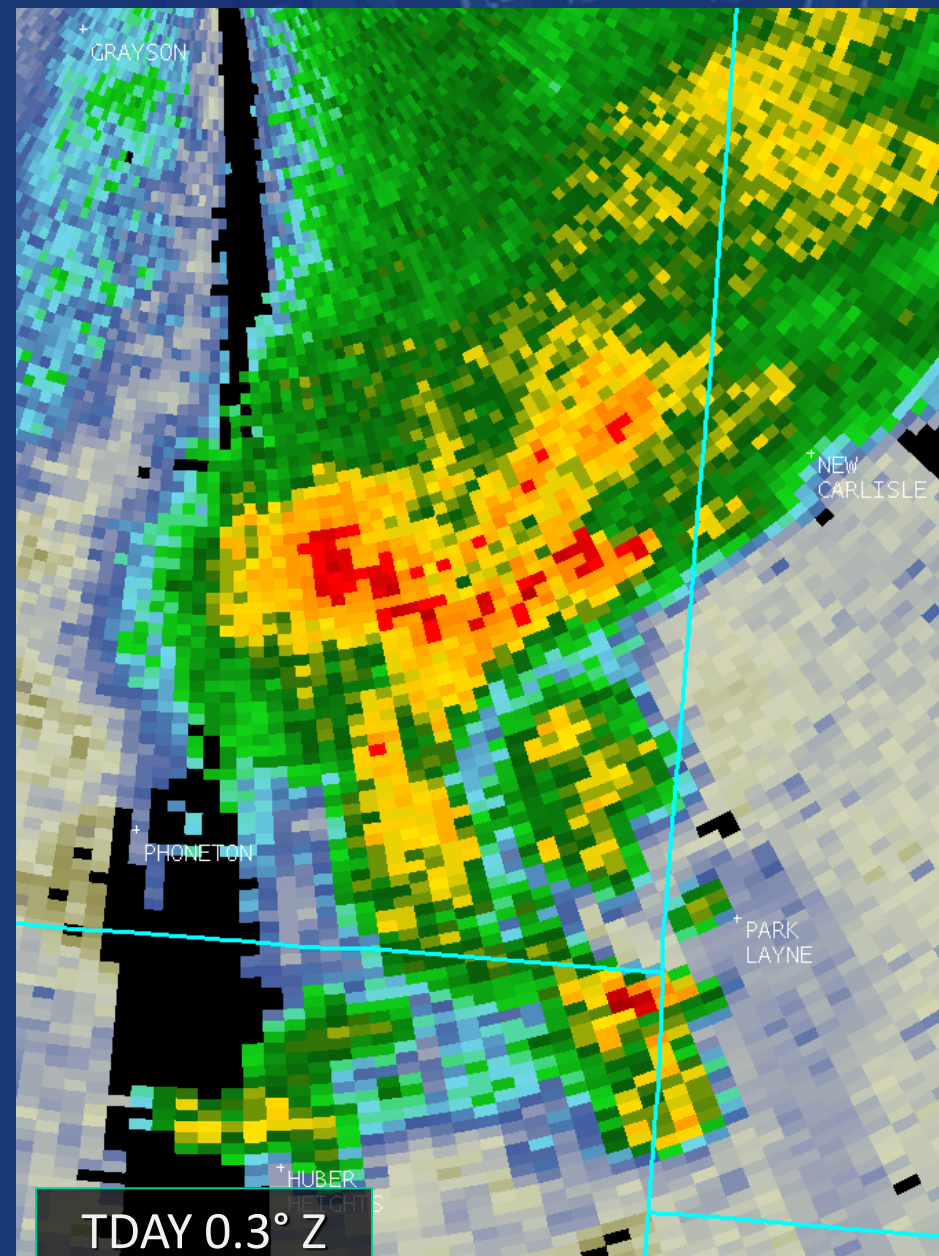
9:16 PM



#5: Park Layne

May 24, 2017

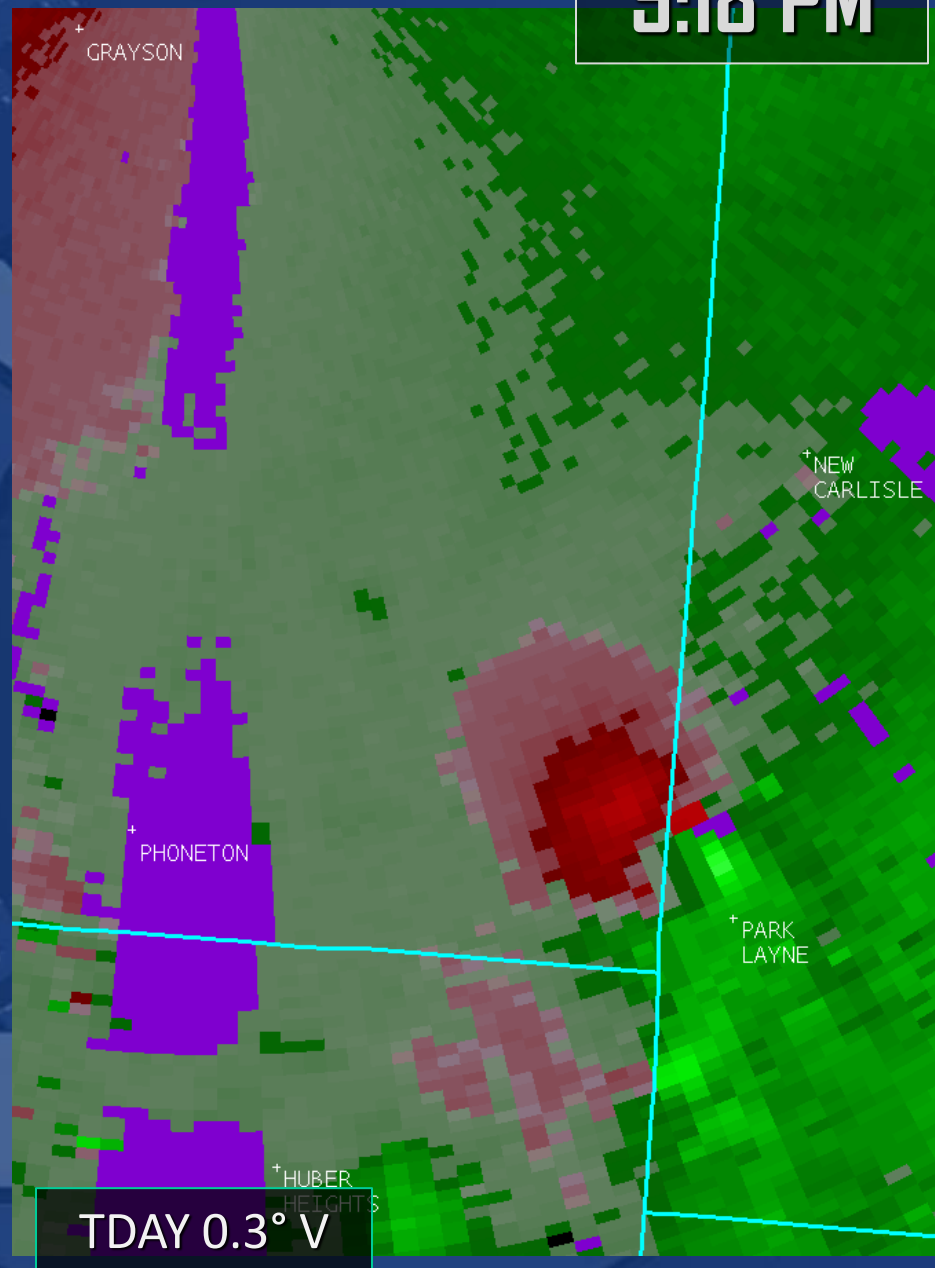
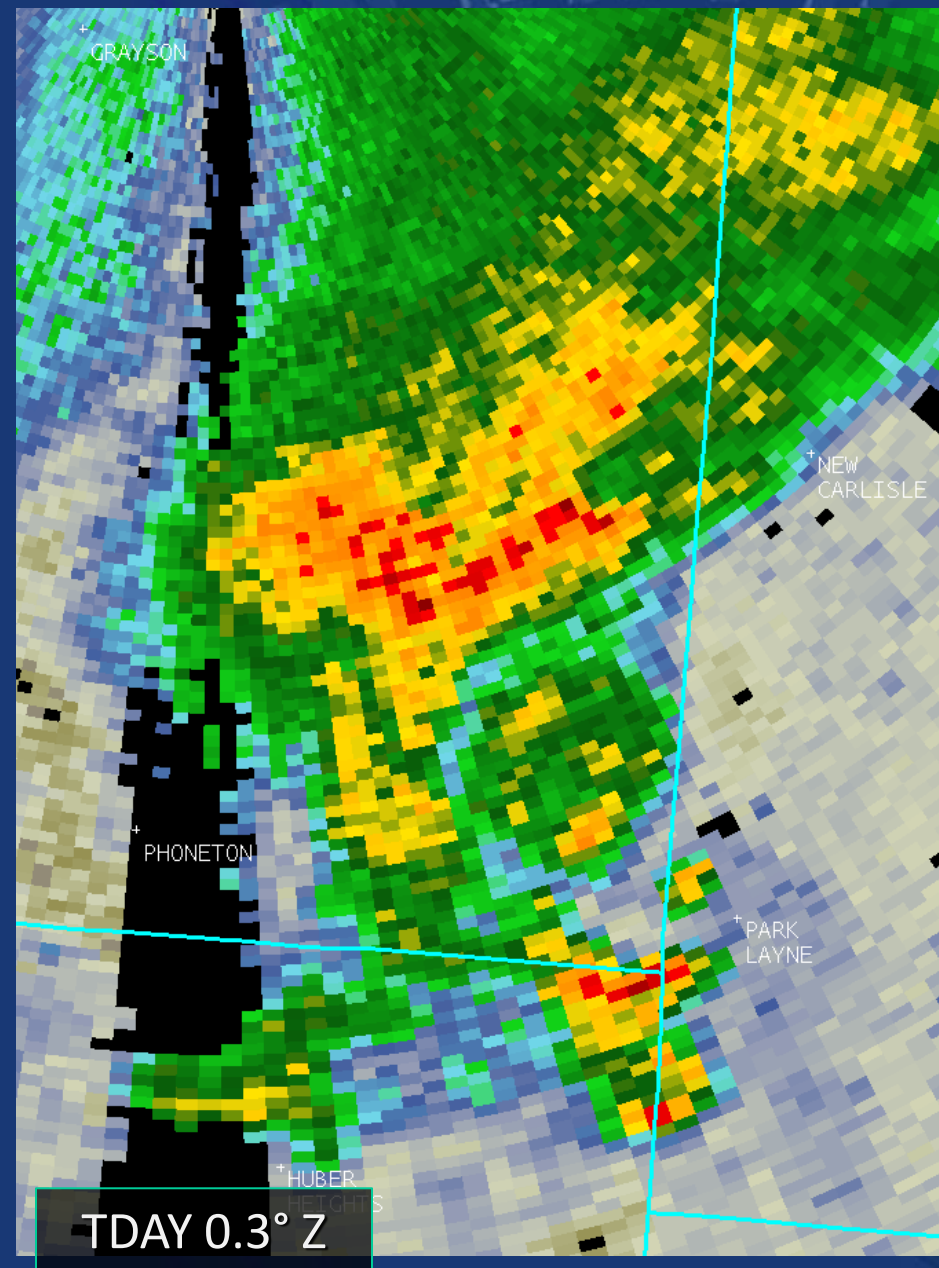
9:17 PM



#5: Park Layne

May 24, 2017

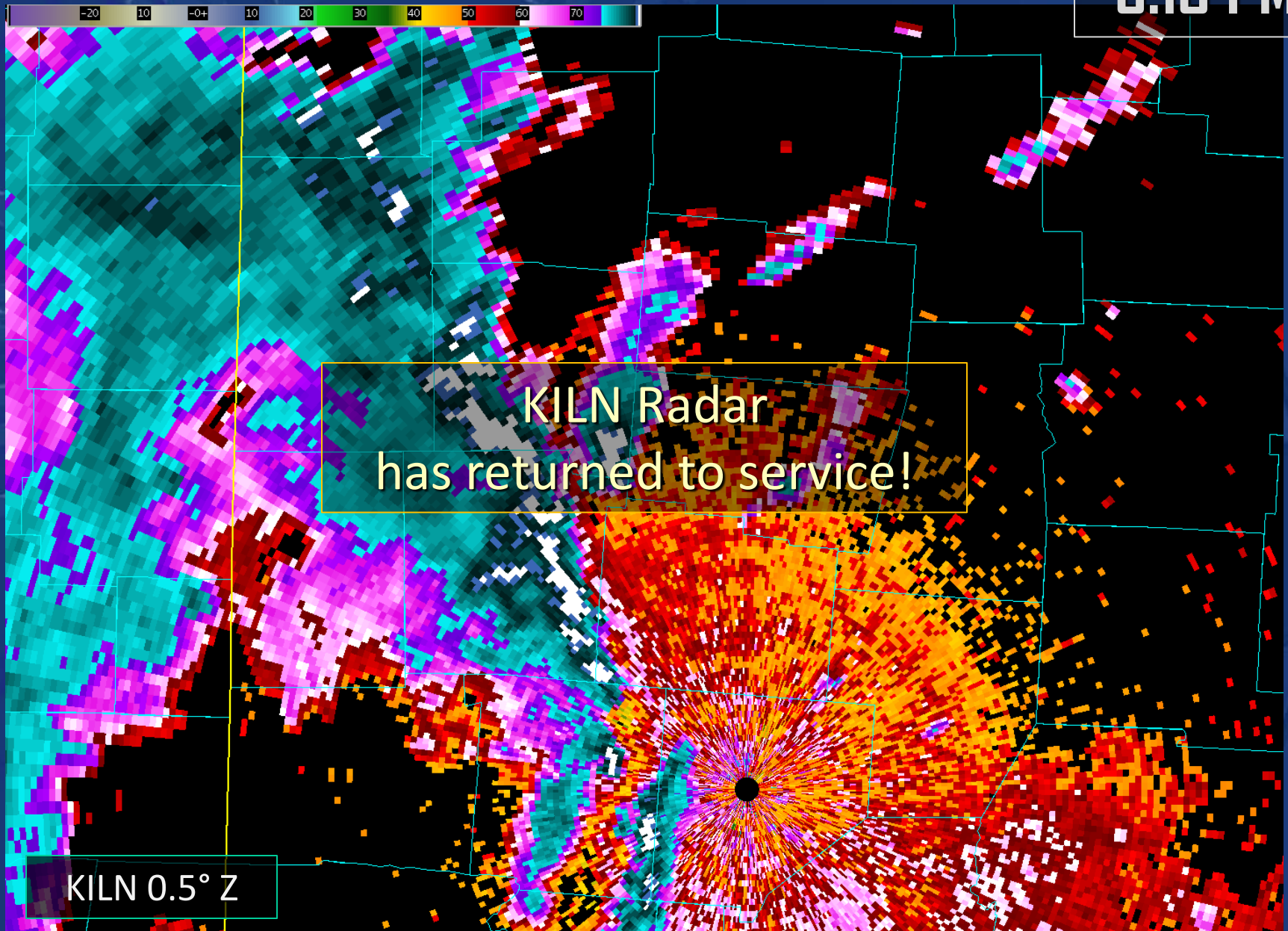
9:18 PM



#5: Park Layne

May 24, 2017

9:18 PM



#5: Park Layne

May 24, 2017

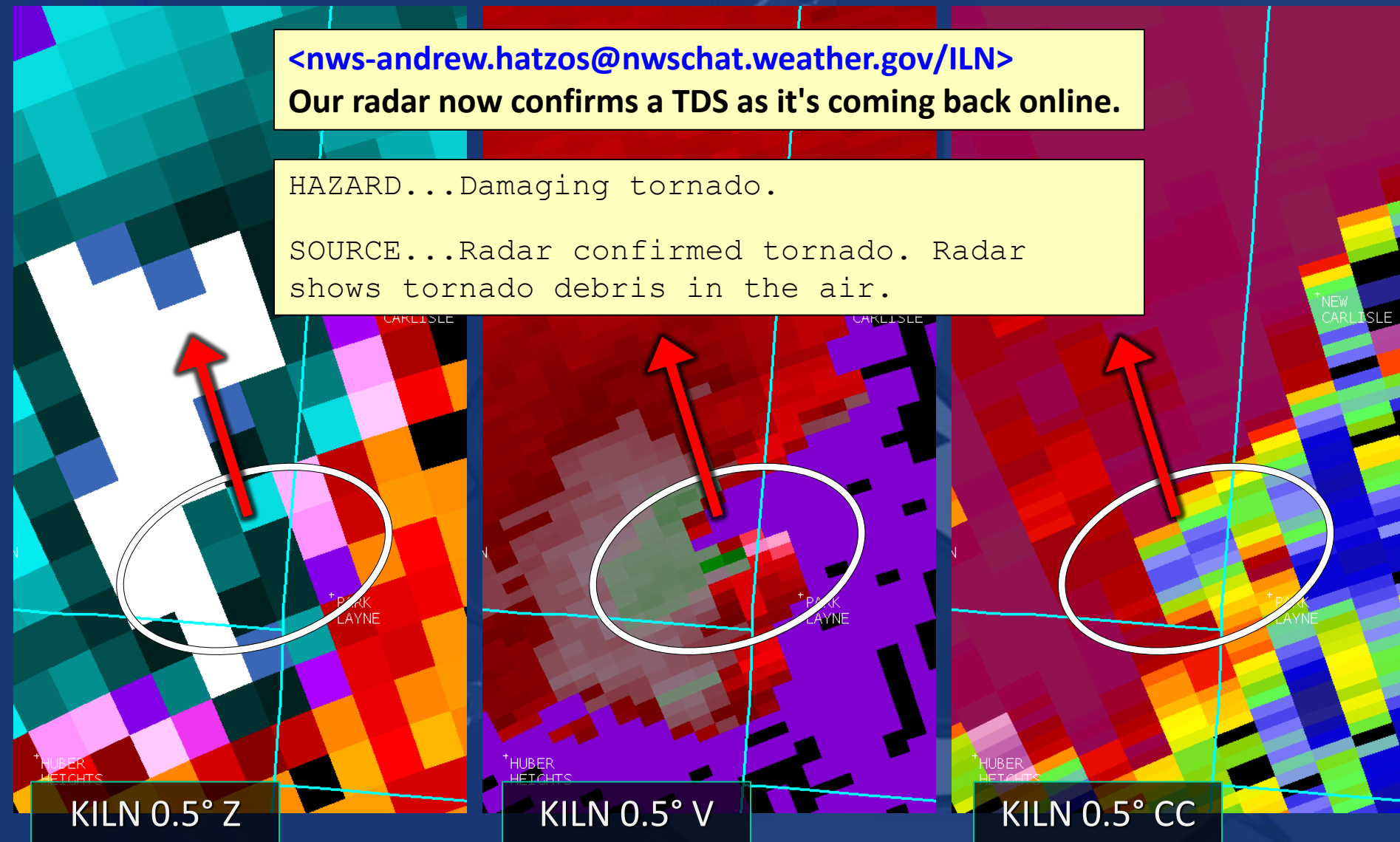
9:18 PM

[<nws-andrew.hatzos@nwschat.weather.gov/ILN>](mailto:nws-andrew.hatzos@nwschat.weather.gov/ILN)

Our radar now confirms a TDS as it's coming back online.

HAZARD...Damaging tornado.

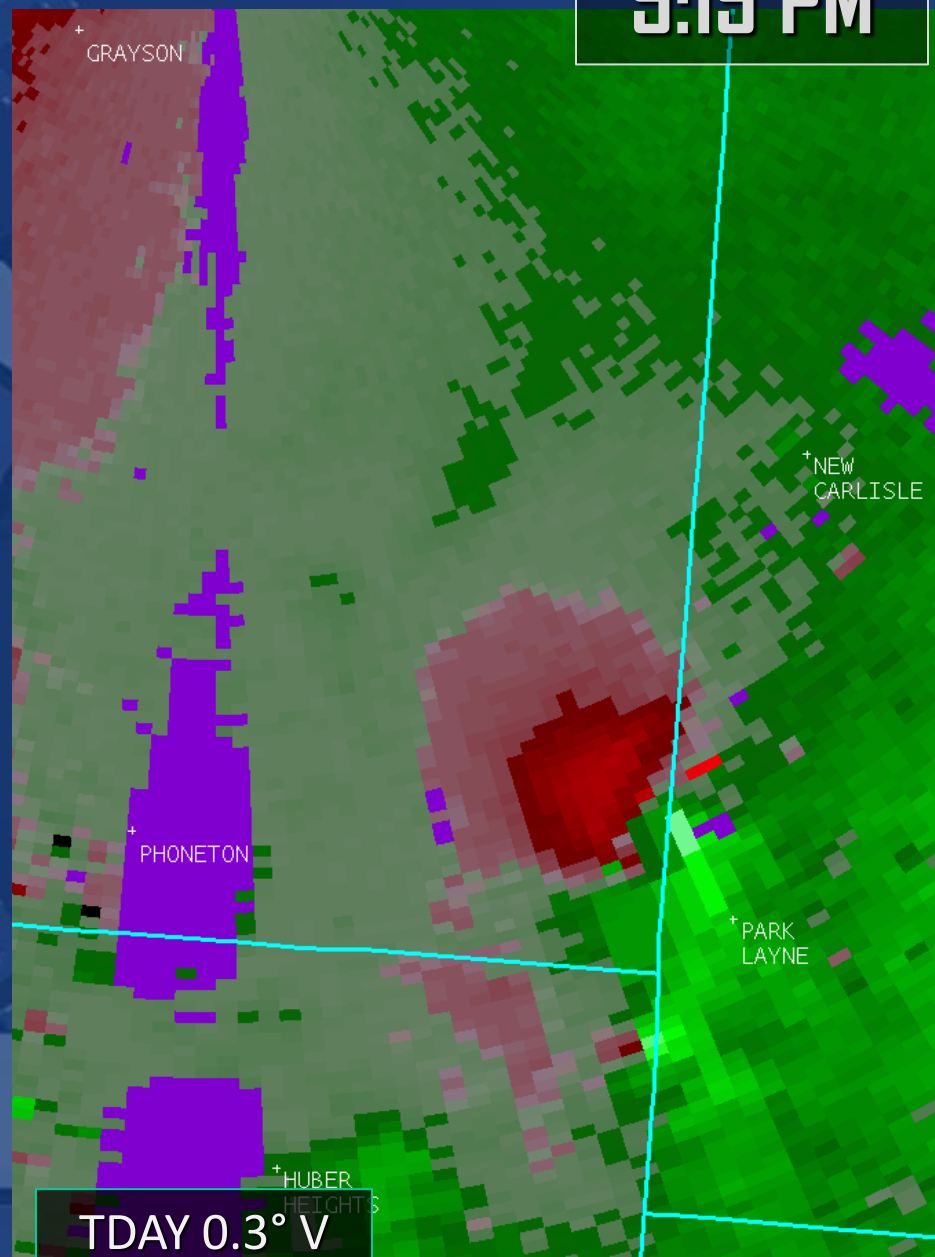
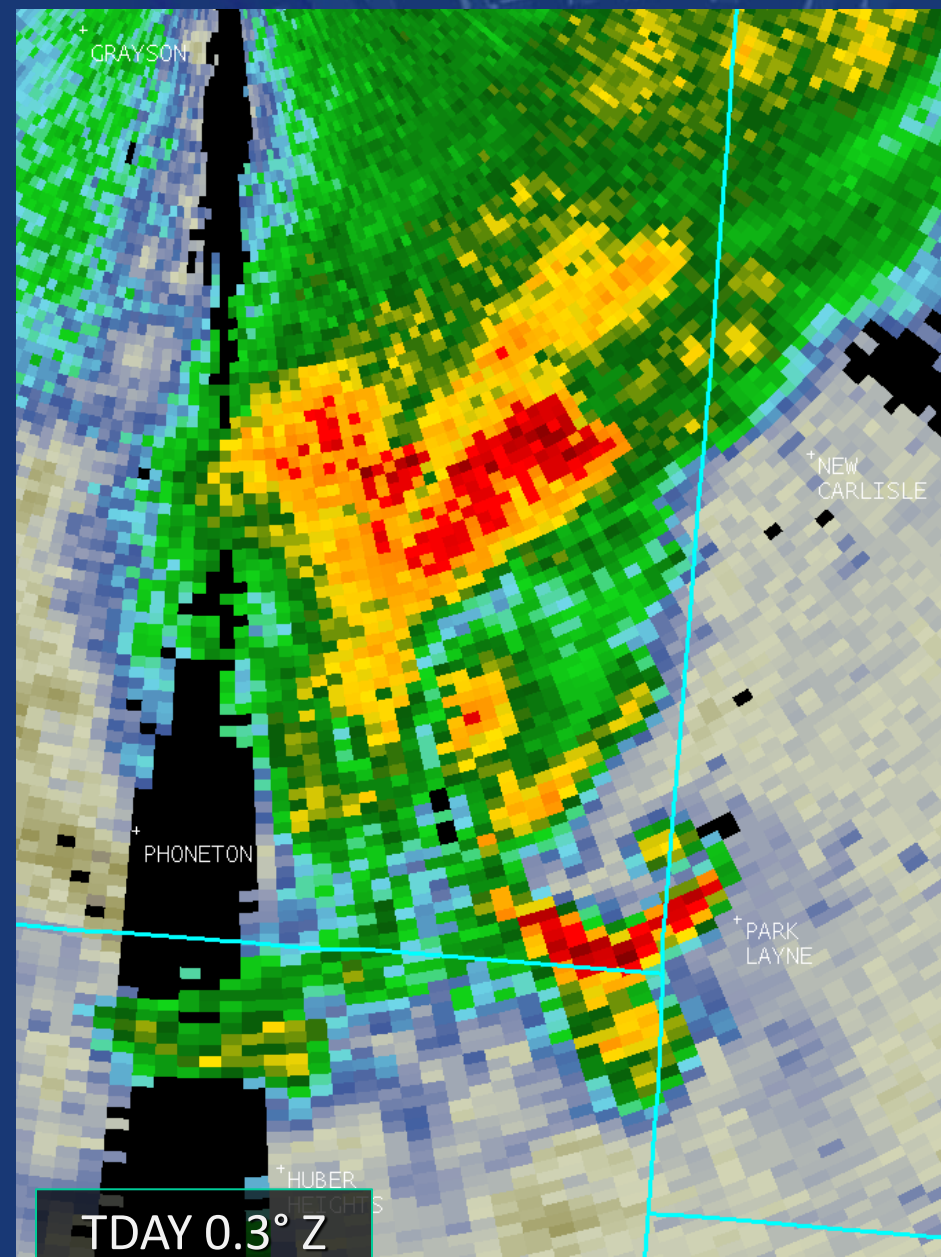
SOURCE...Radar confirmed tornado. Radar shows tornado debris in the air.



#5: Park Layne

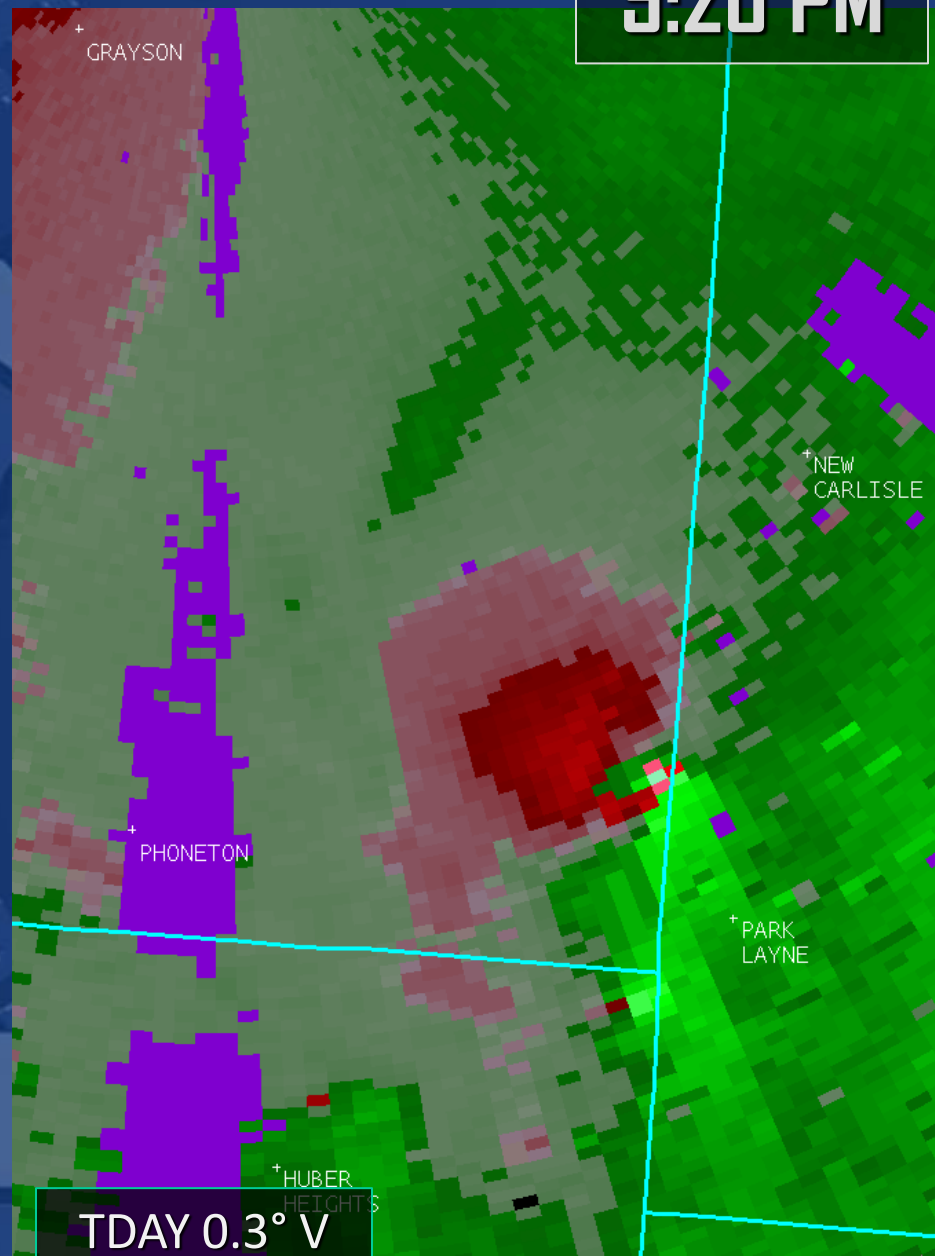
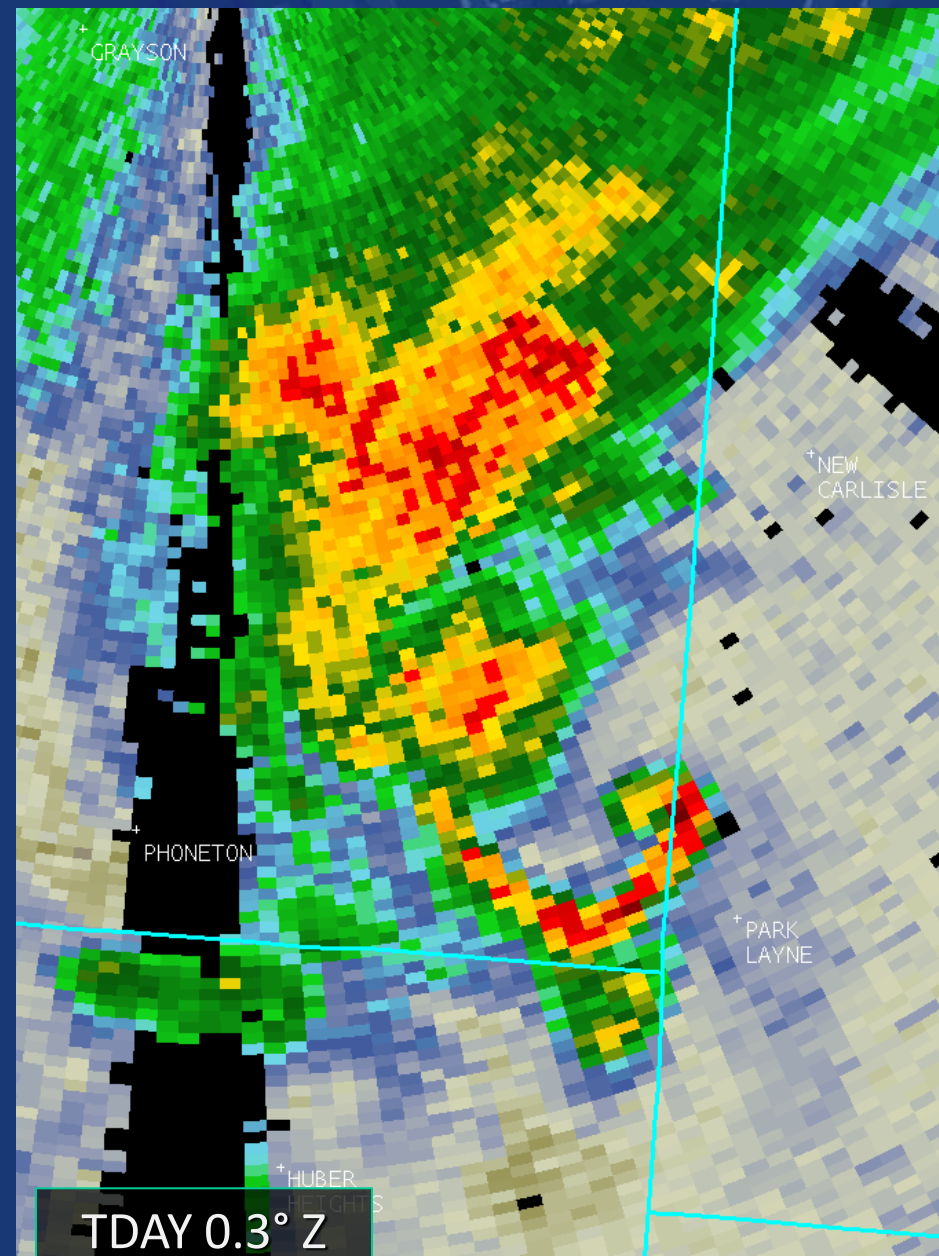
May 24, 2017

9:19 PM



#5: Park Layne

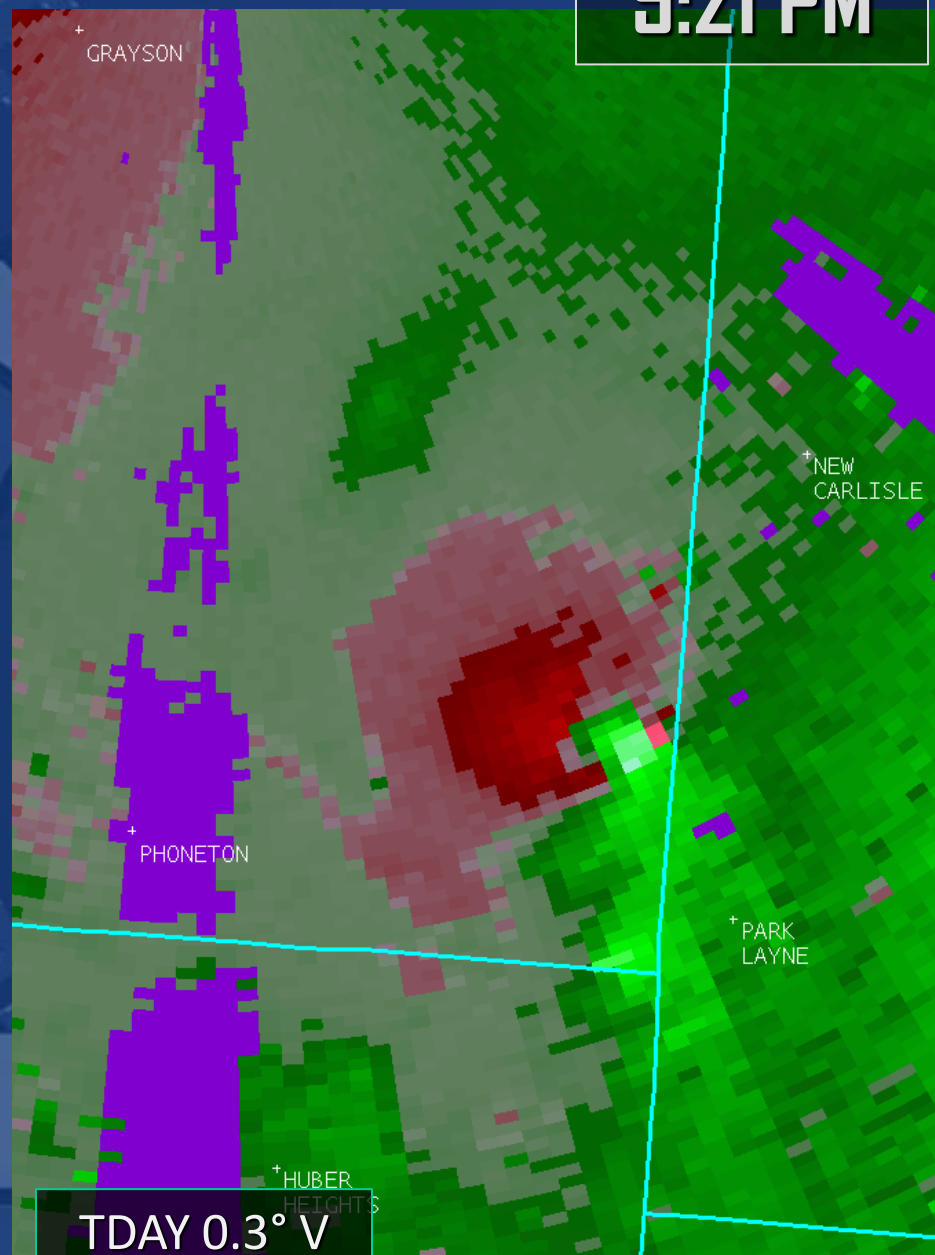
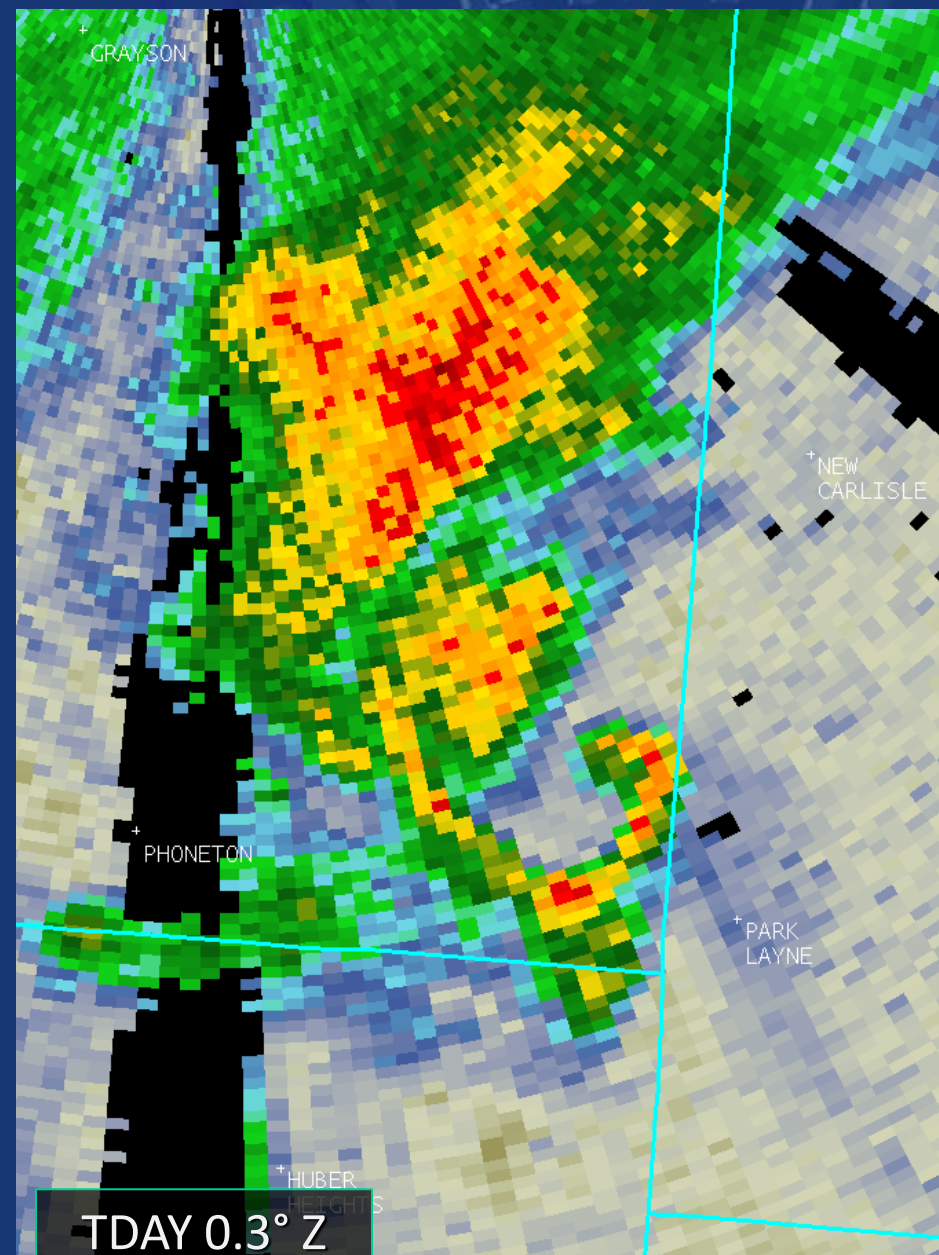
May 24, 2017
9:20 PM



#5: Park Layne

May 24, 2017

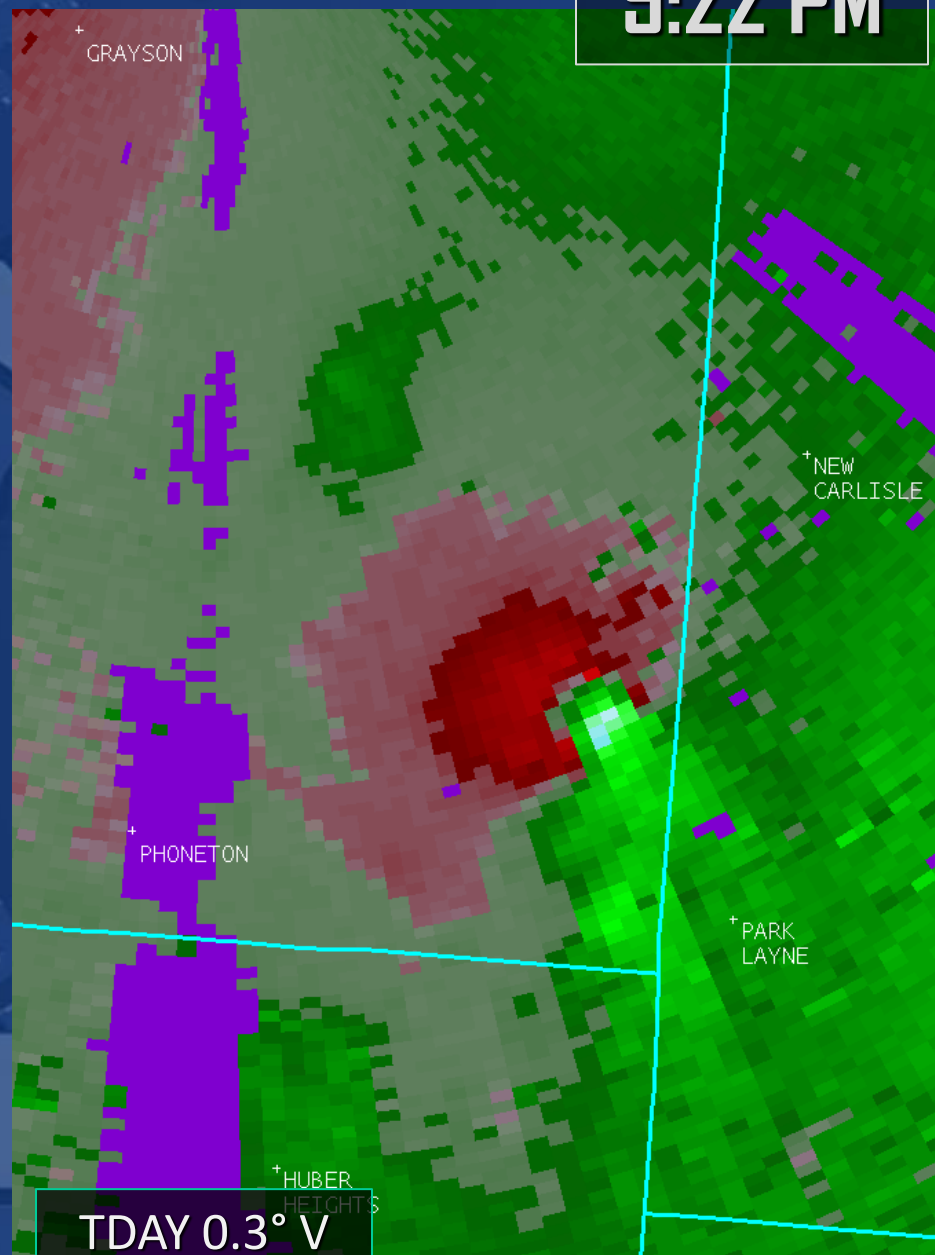
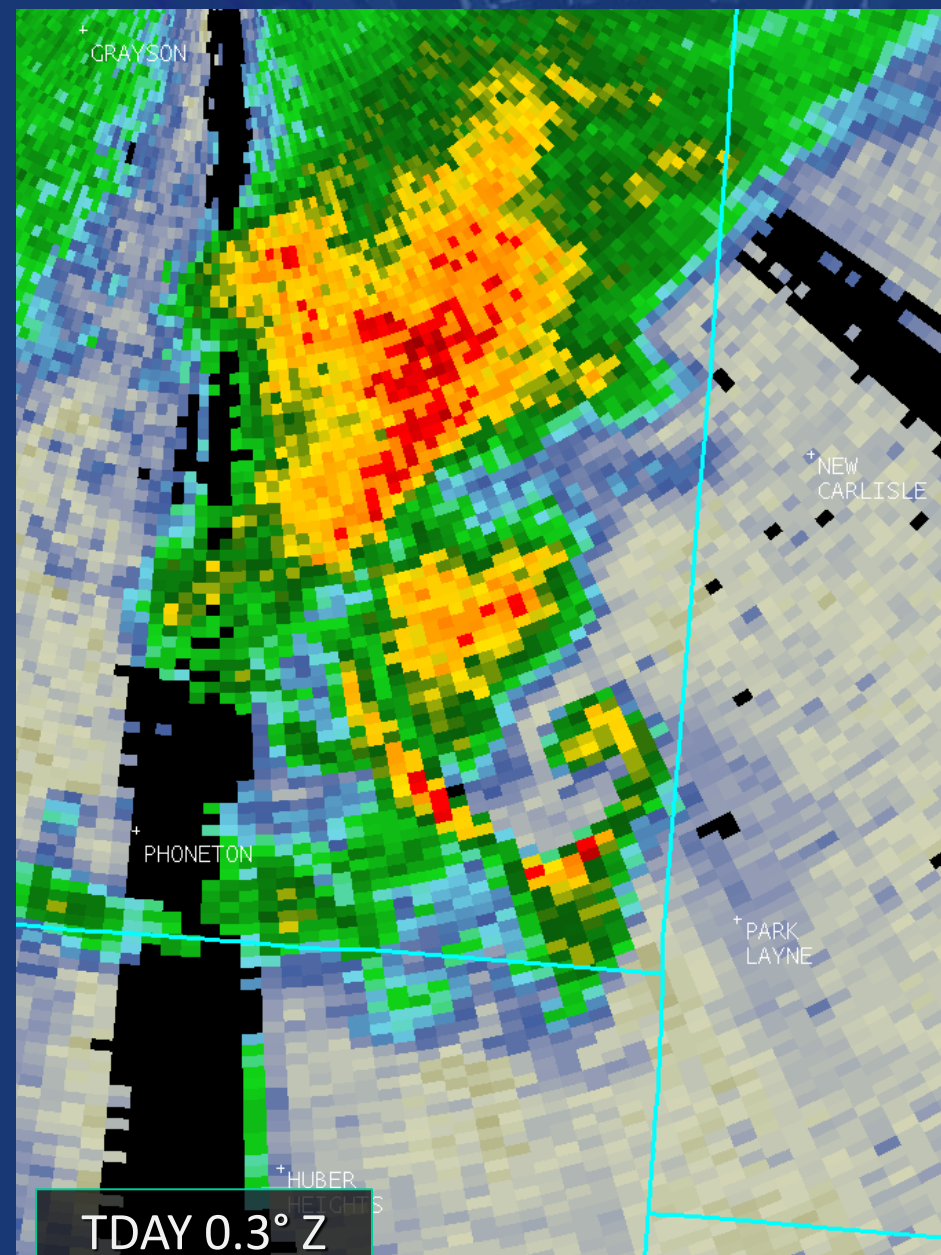
9:21 PM



#5: Park Layne

May 24, 2017

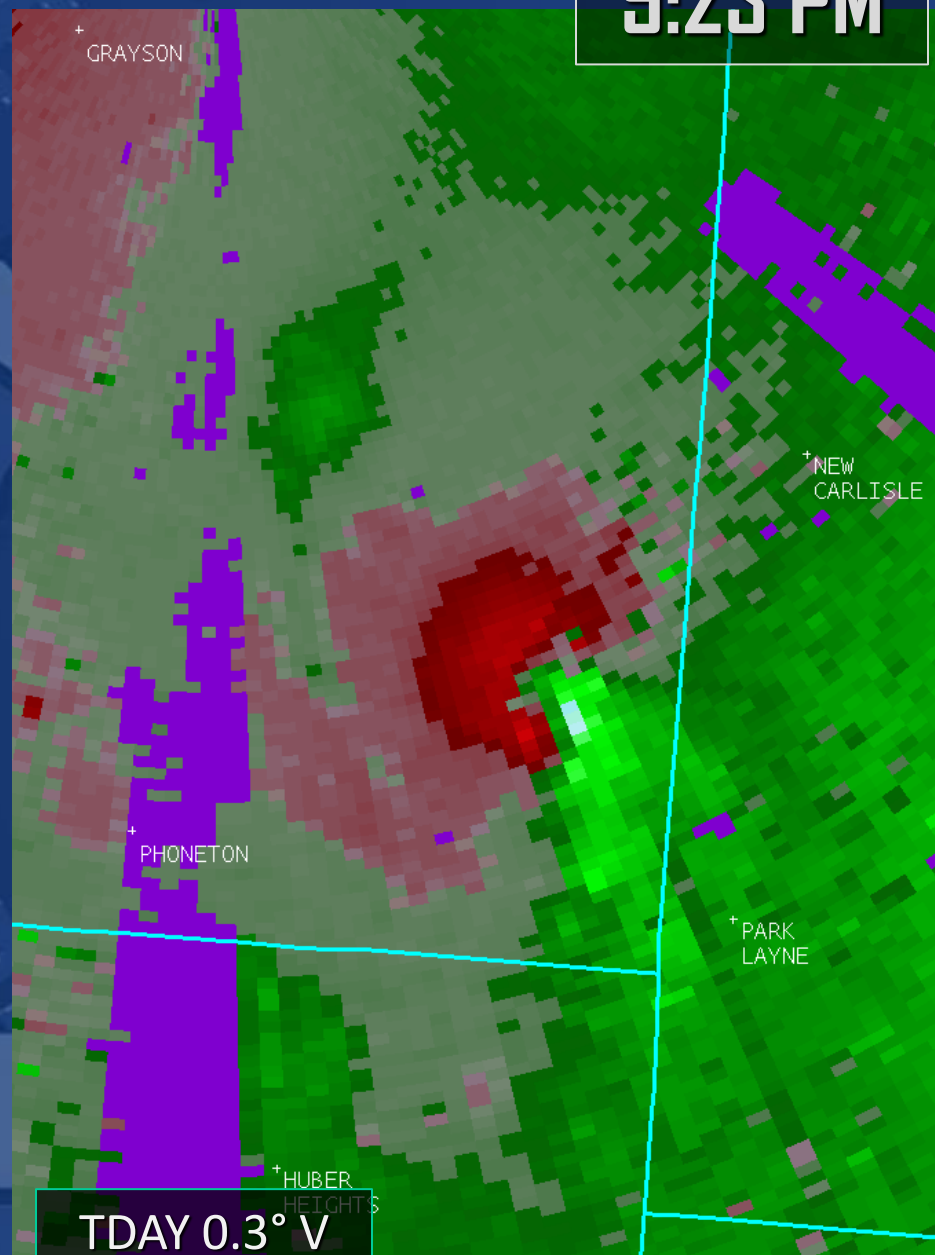
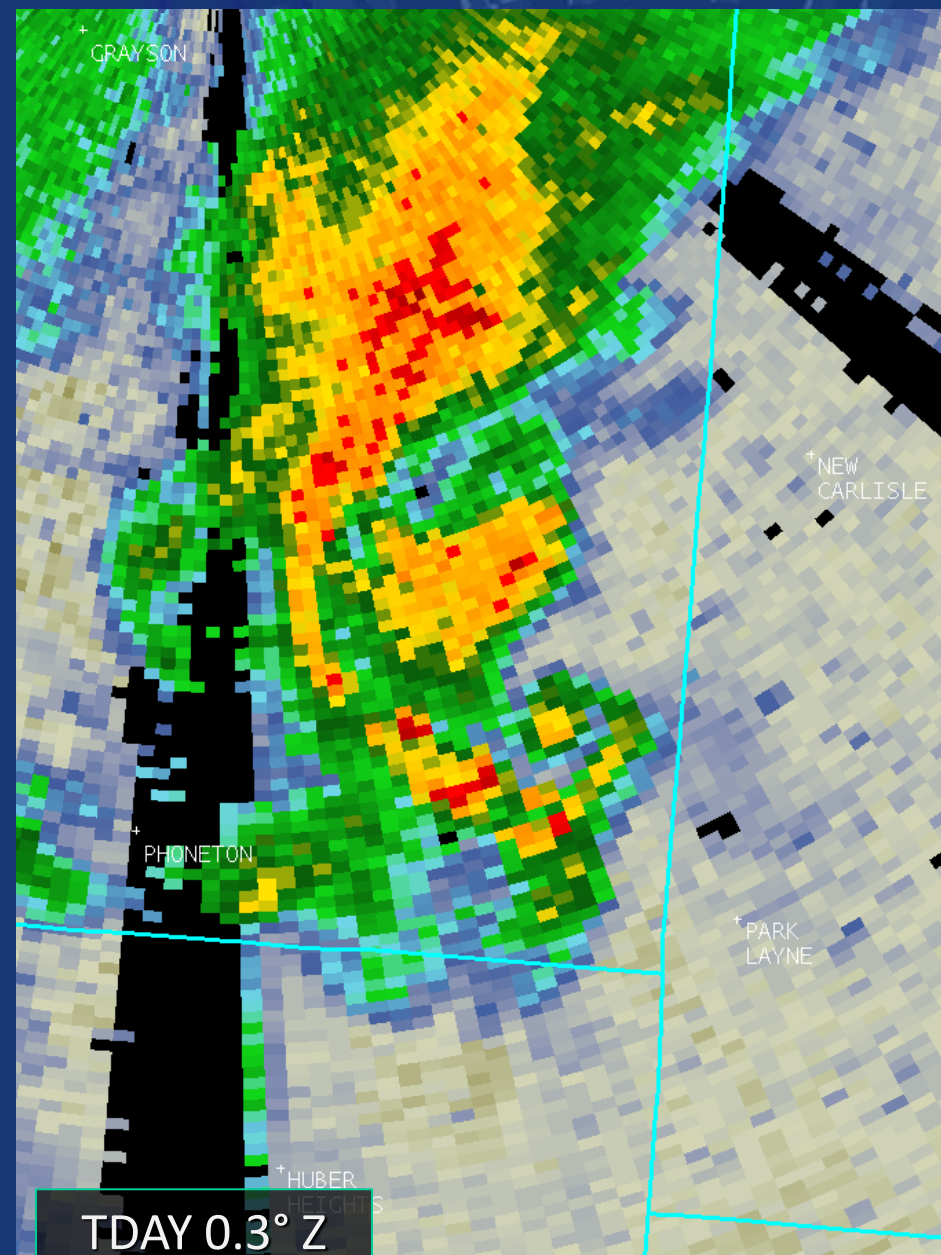
9:22 PM



#5: Park Layne

May 24, 2017

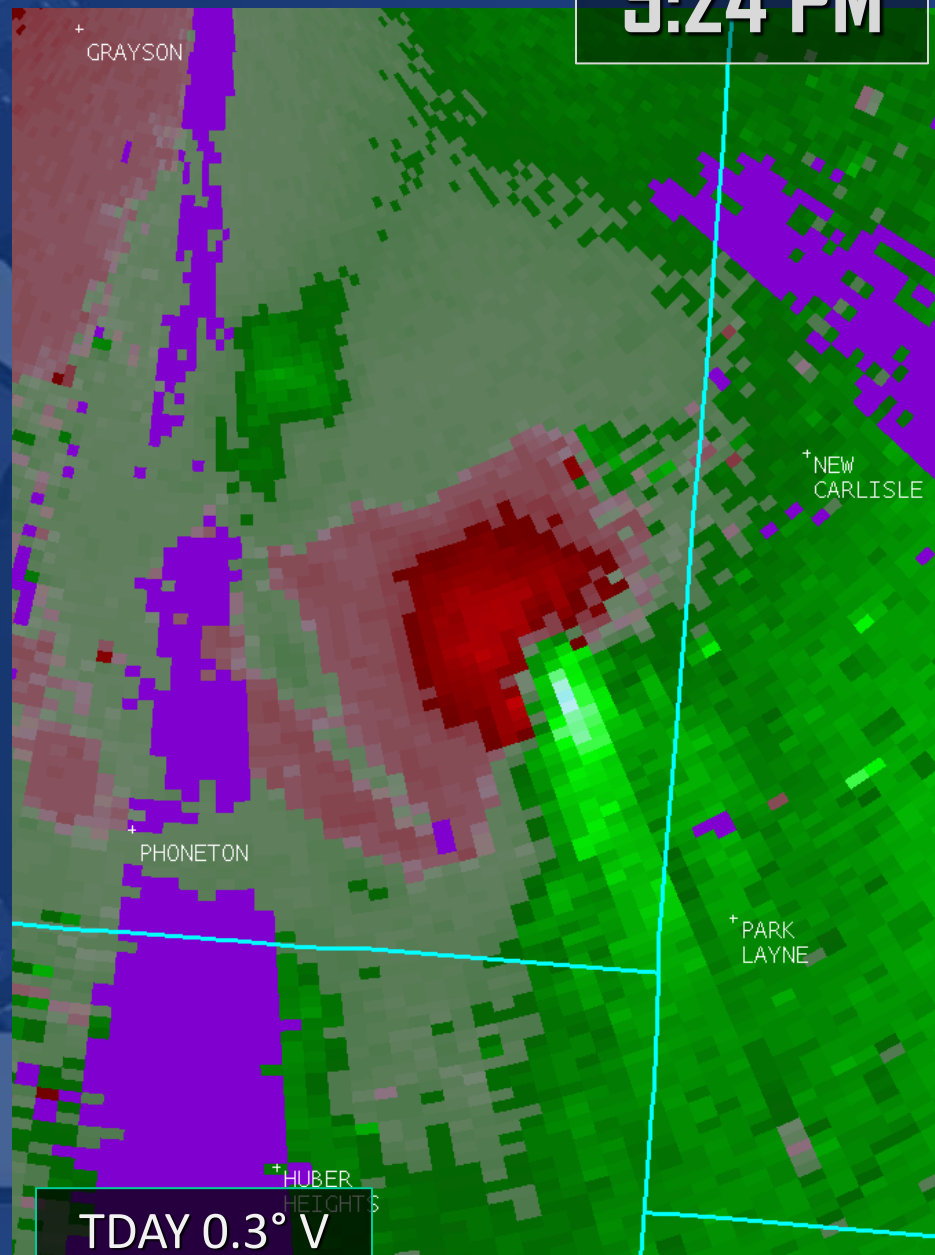
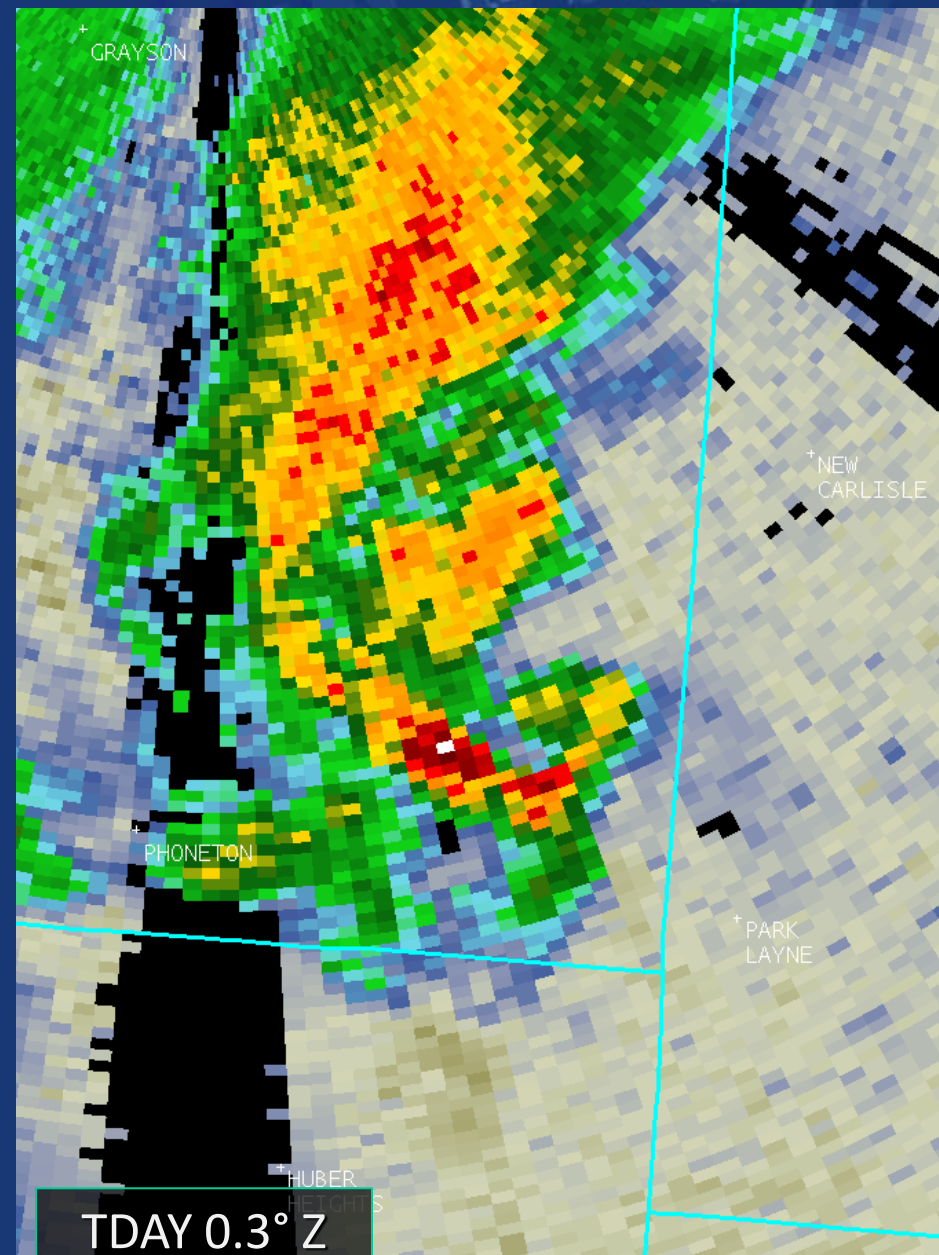
9:23 PM



#5: Park Layne

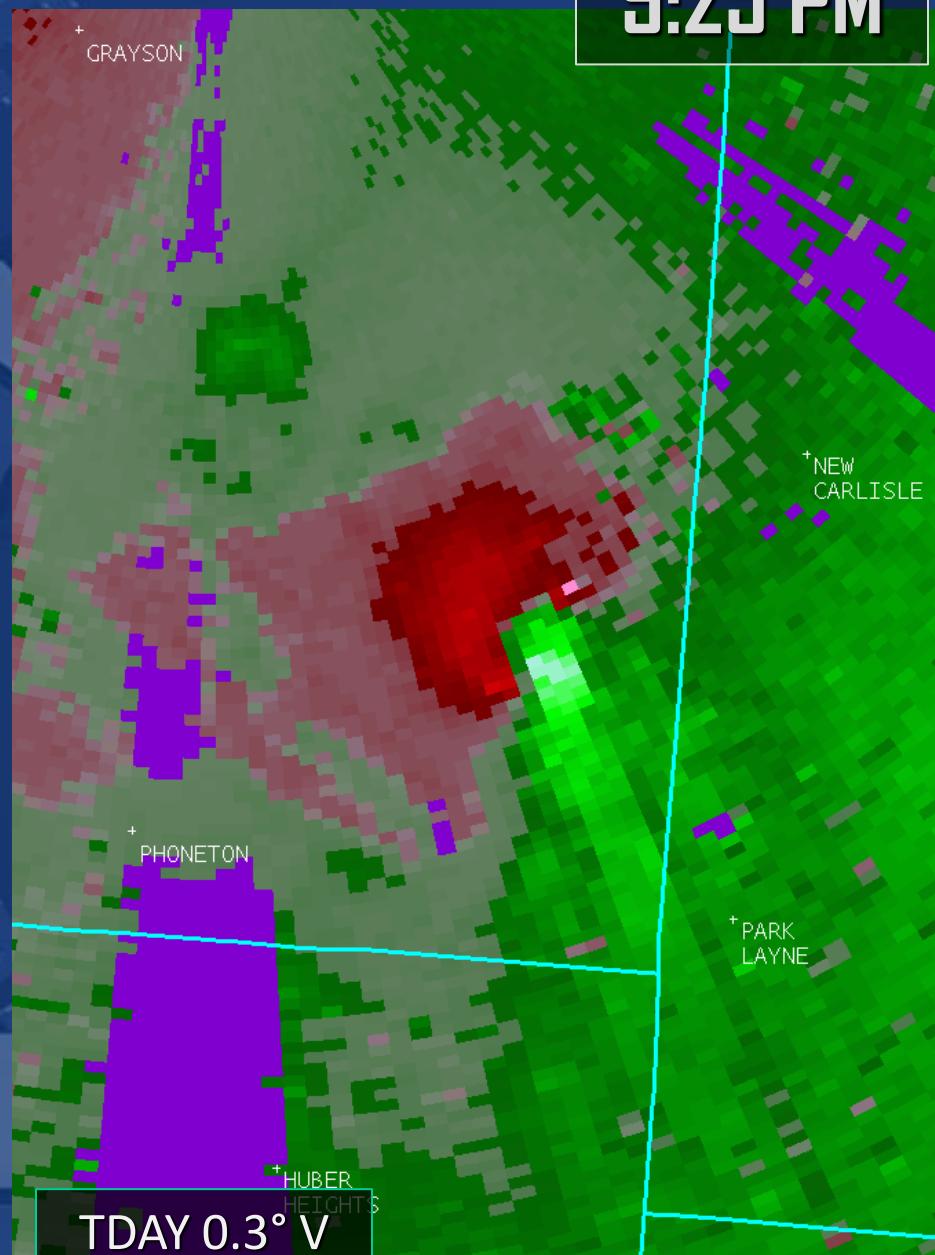
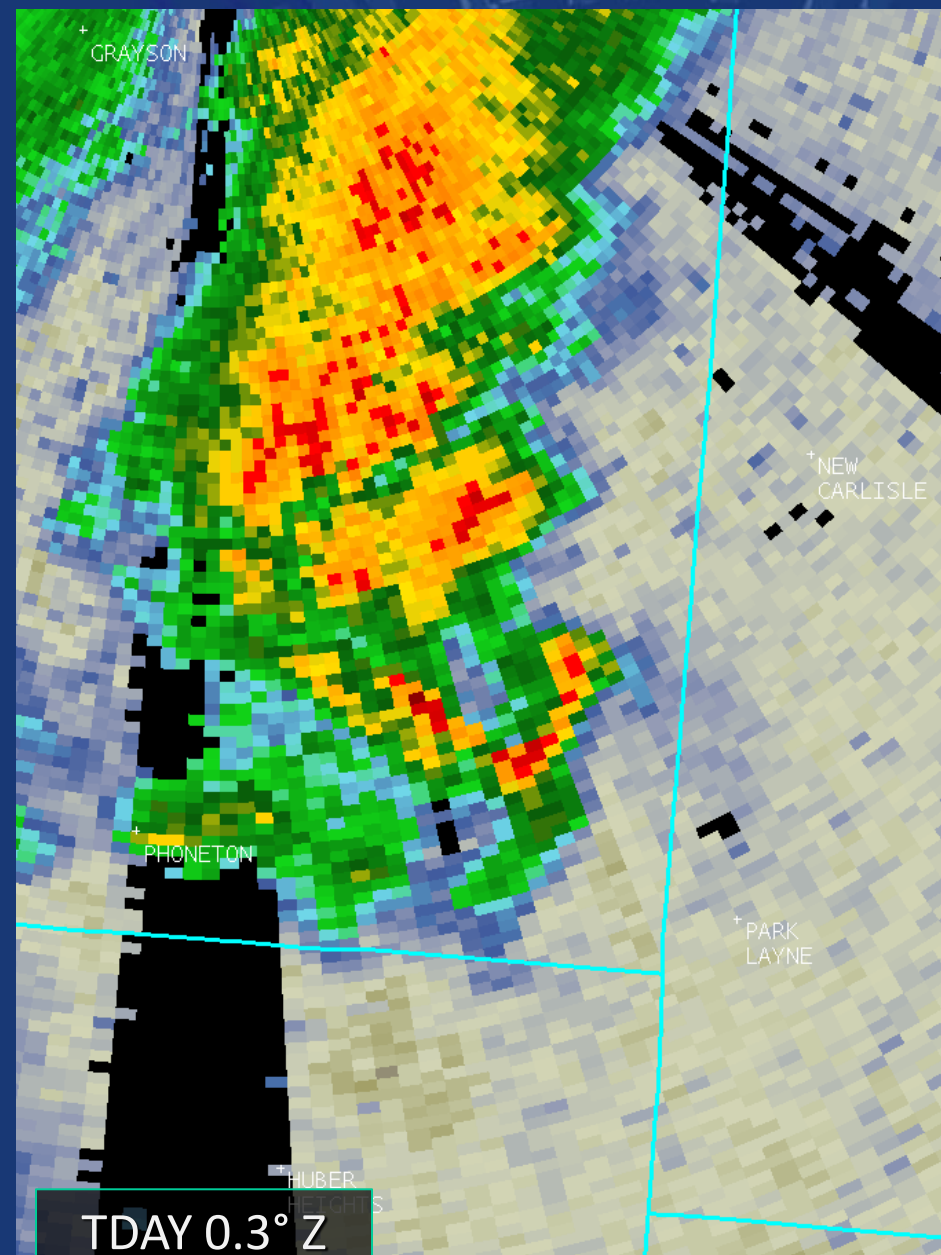
May 24, 2017

9:24 PM



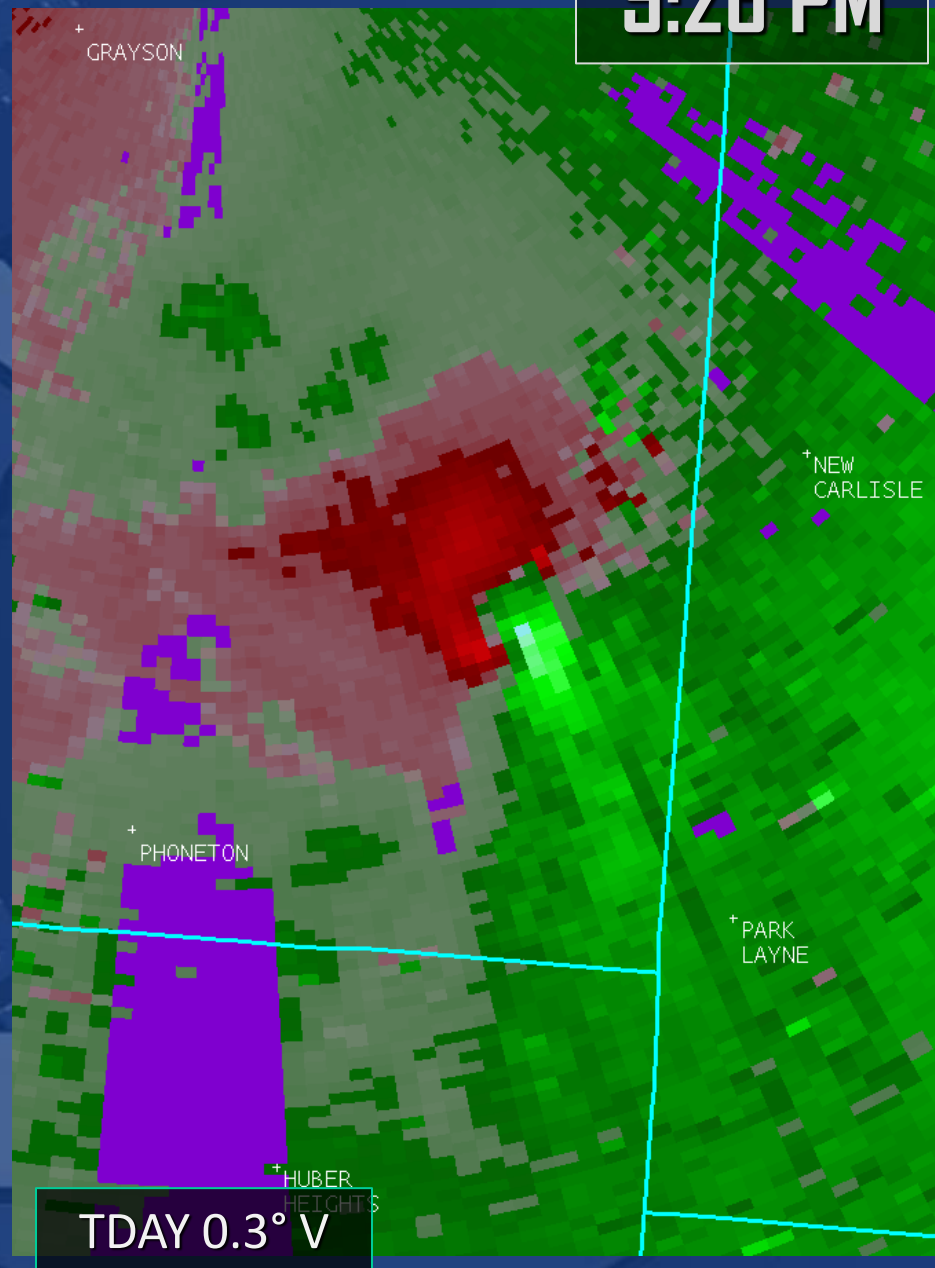
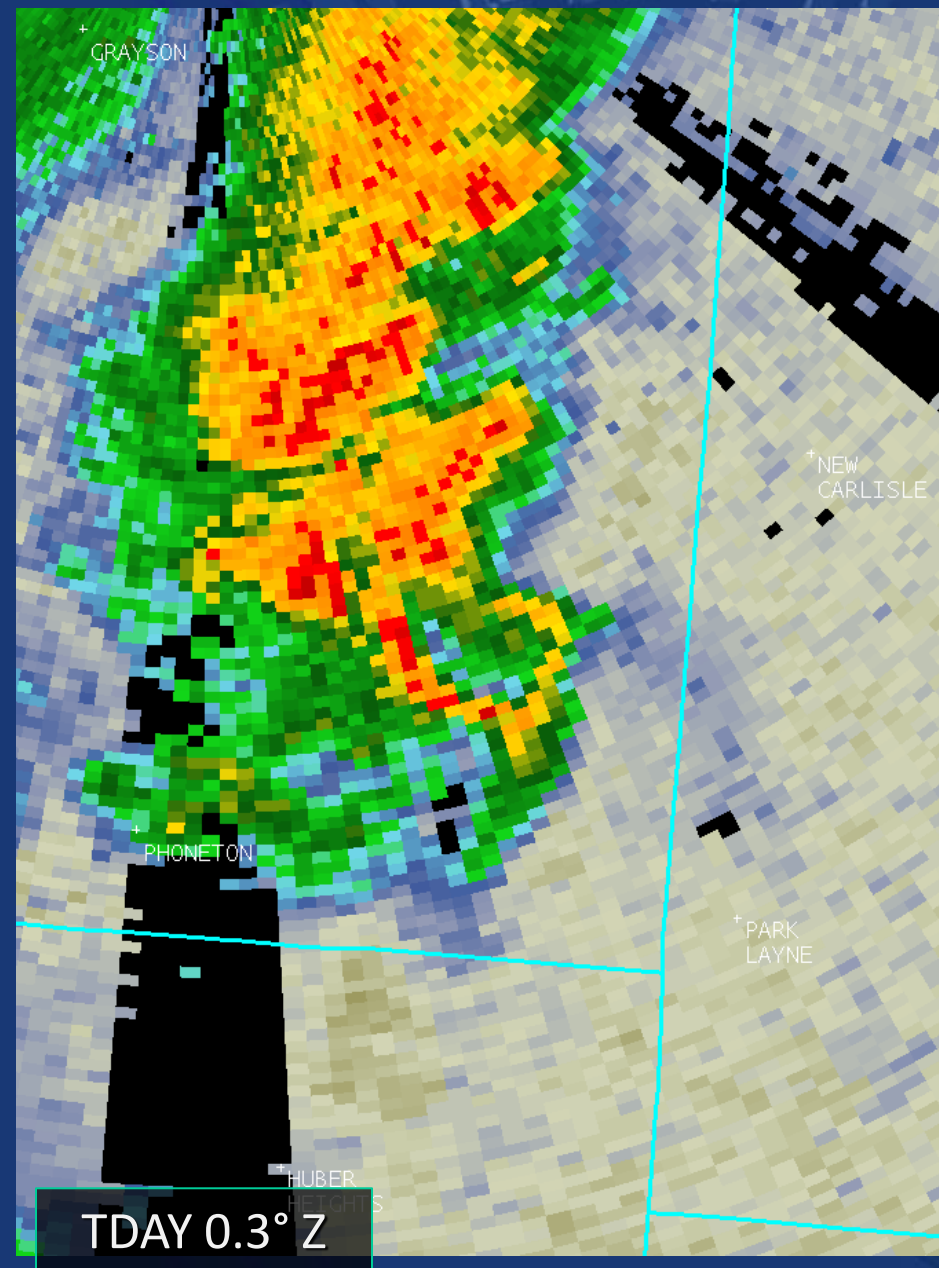
#5: Park Layne

May 24, 2017
9:25 PM



#5: Park Layne

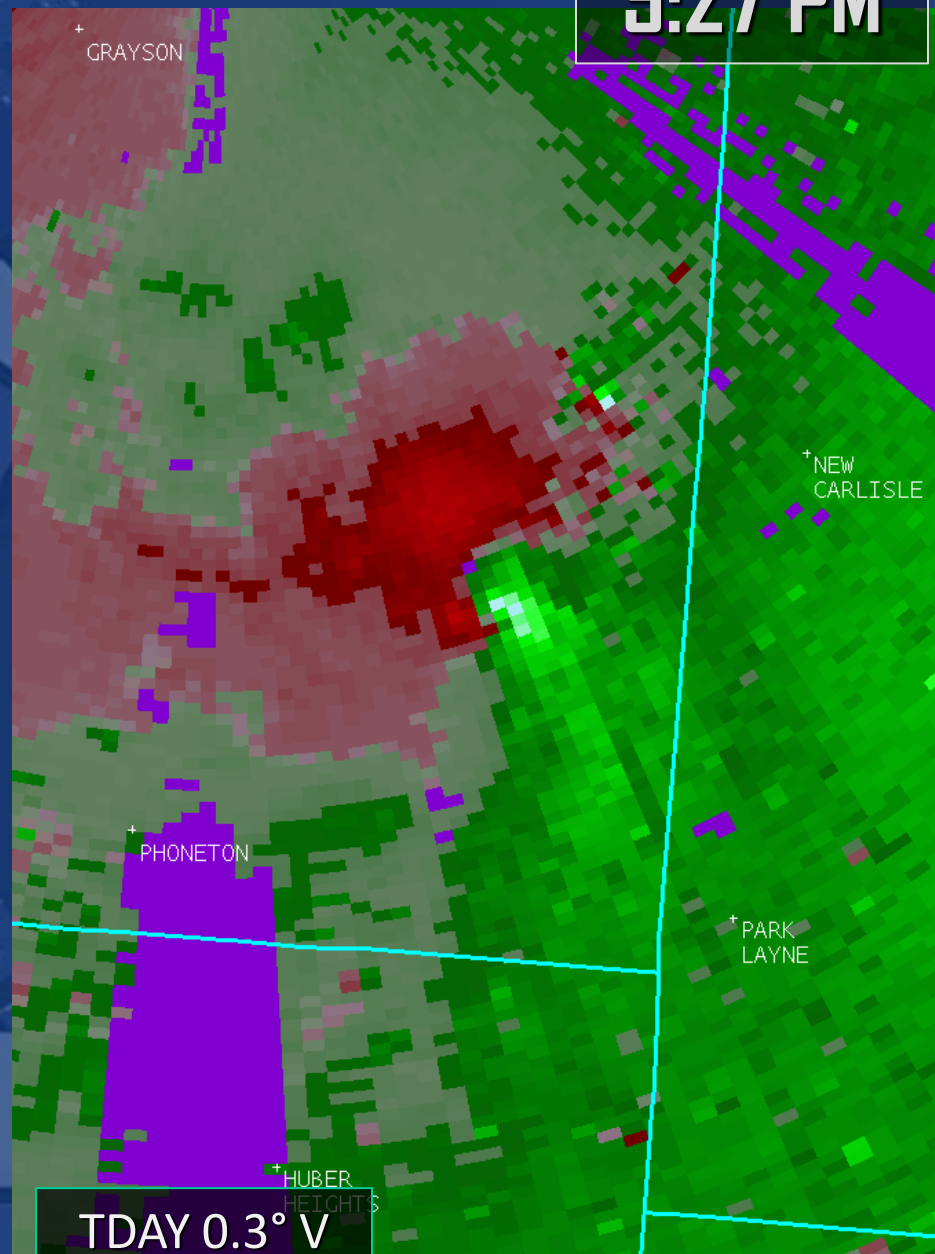
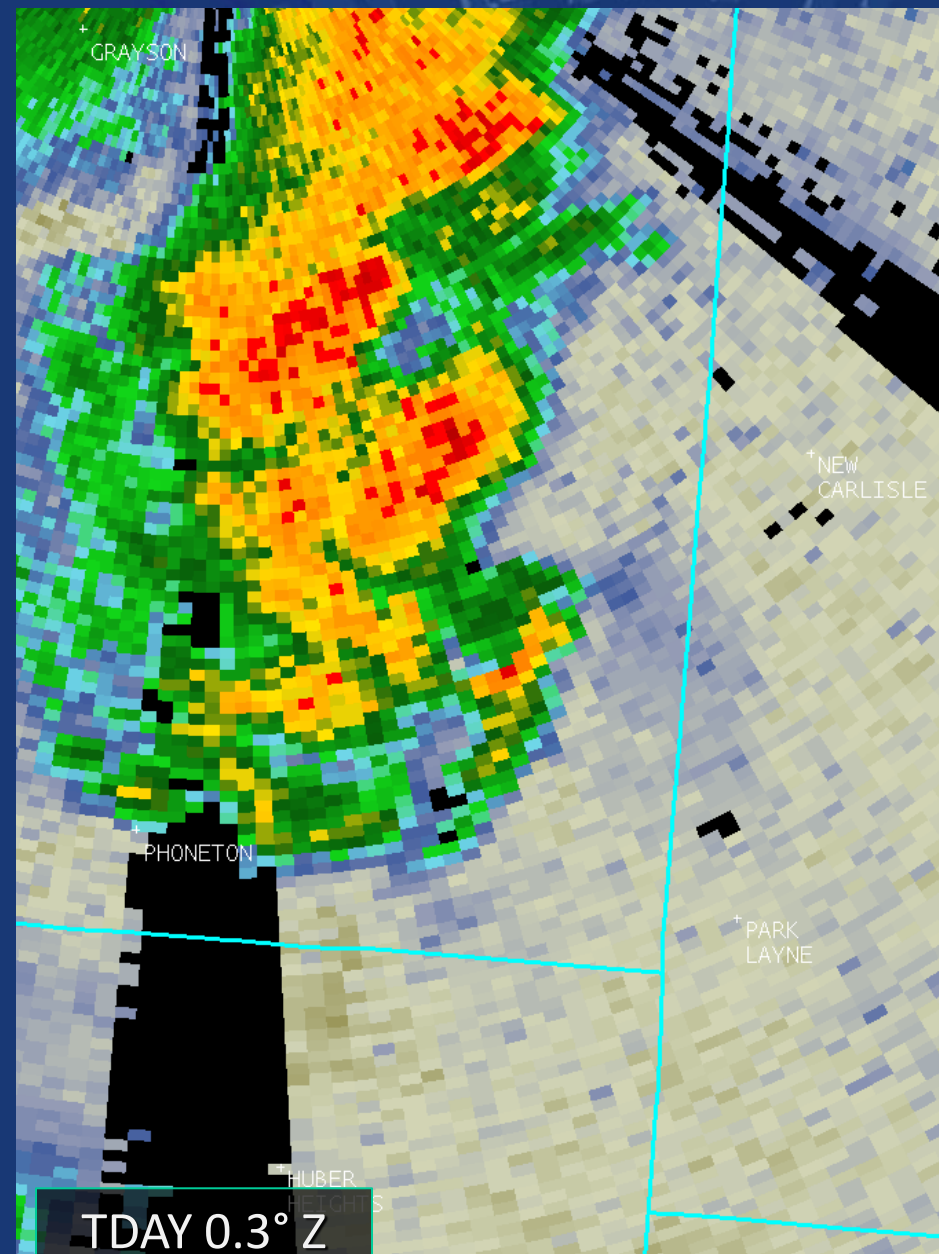
May 24, 2017
9:26 PM



#5: Park Layne

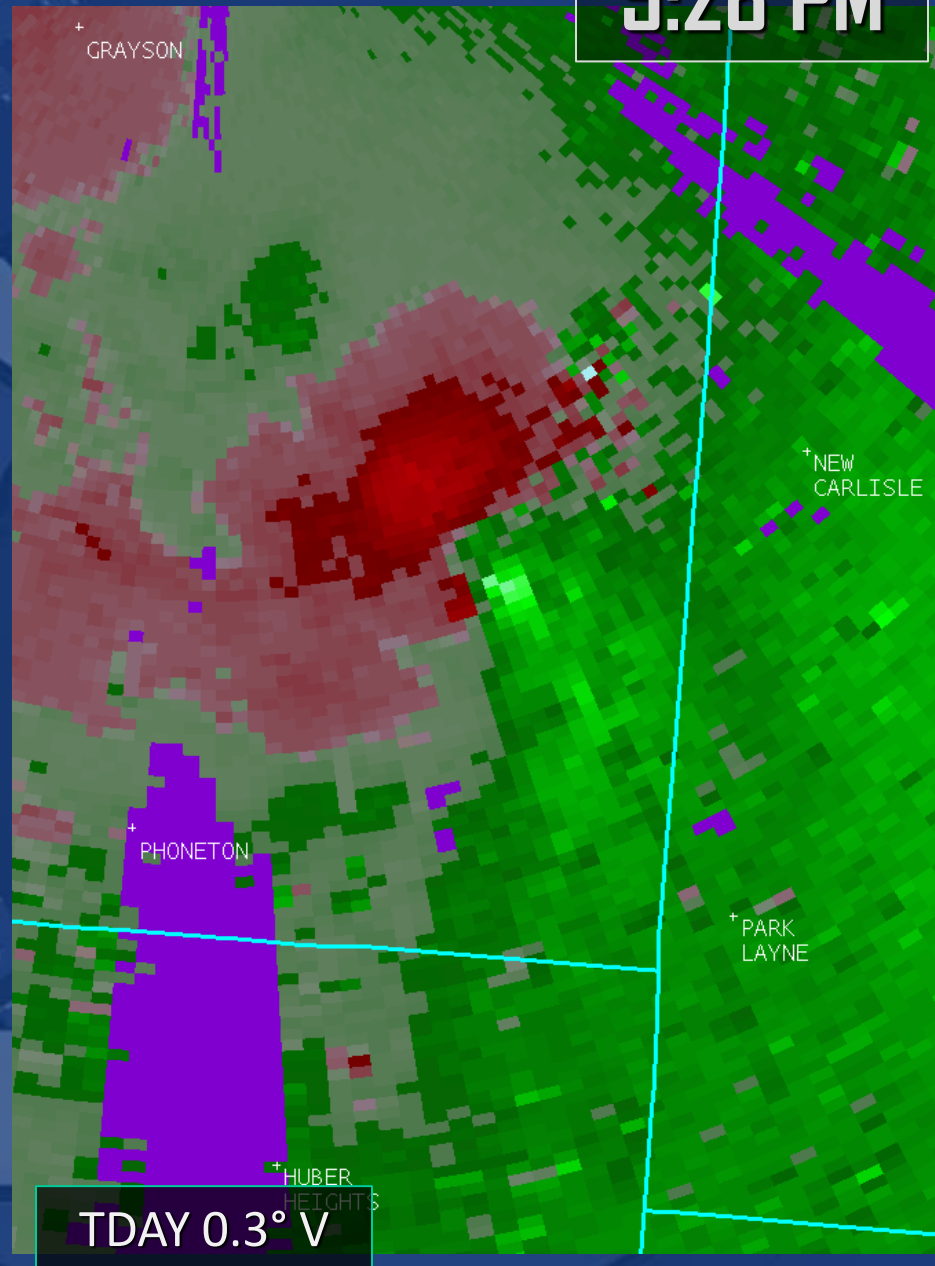
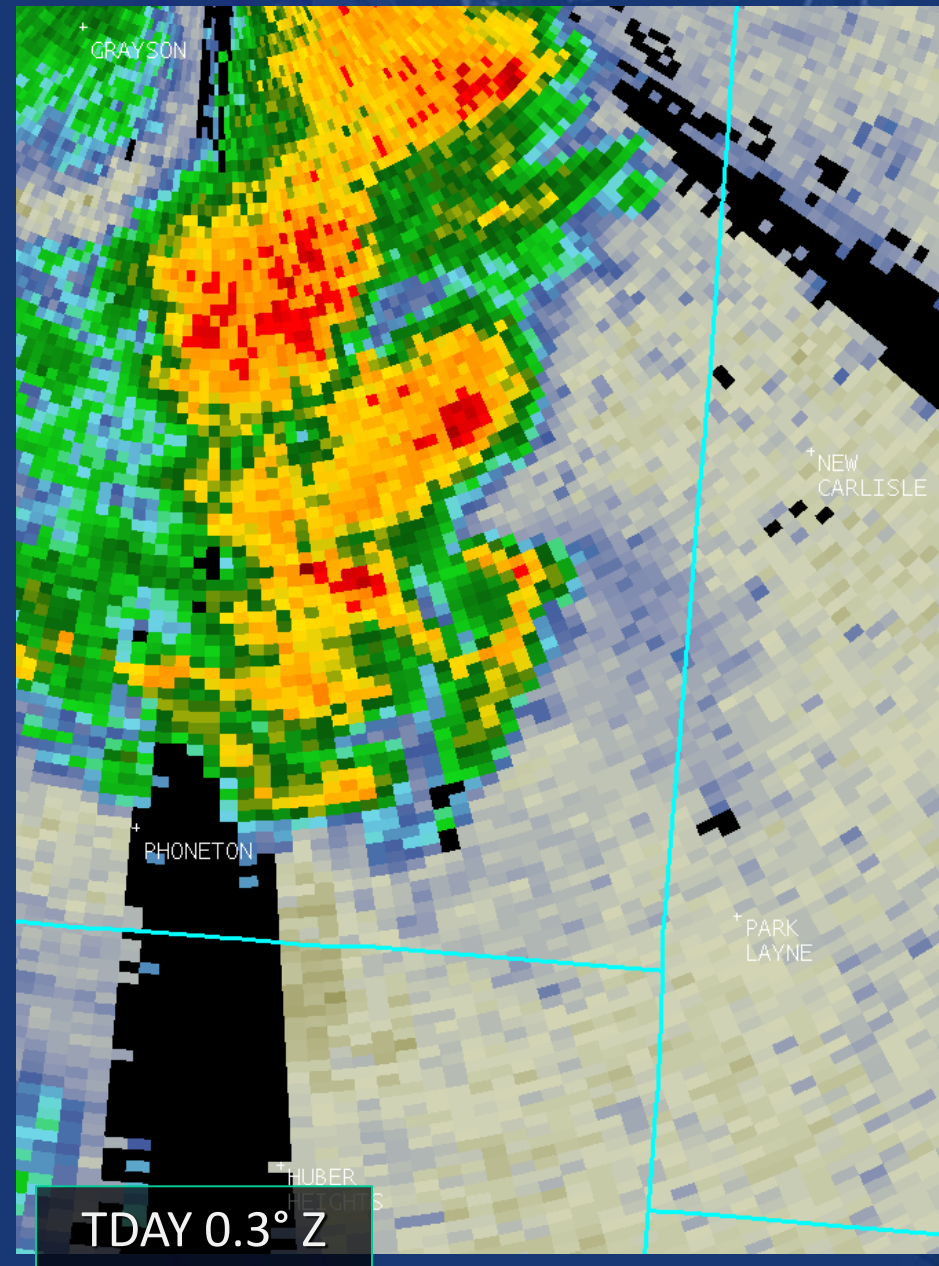
May 24, 2017

9:27 PM



#5: Park Layne

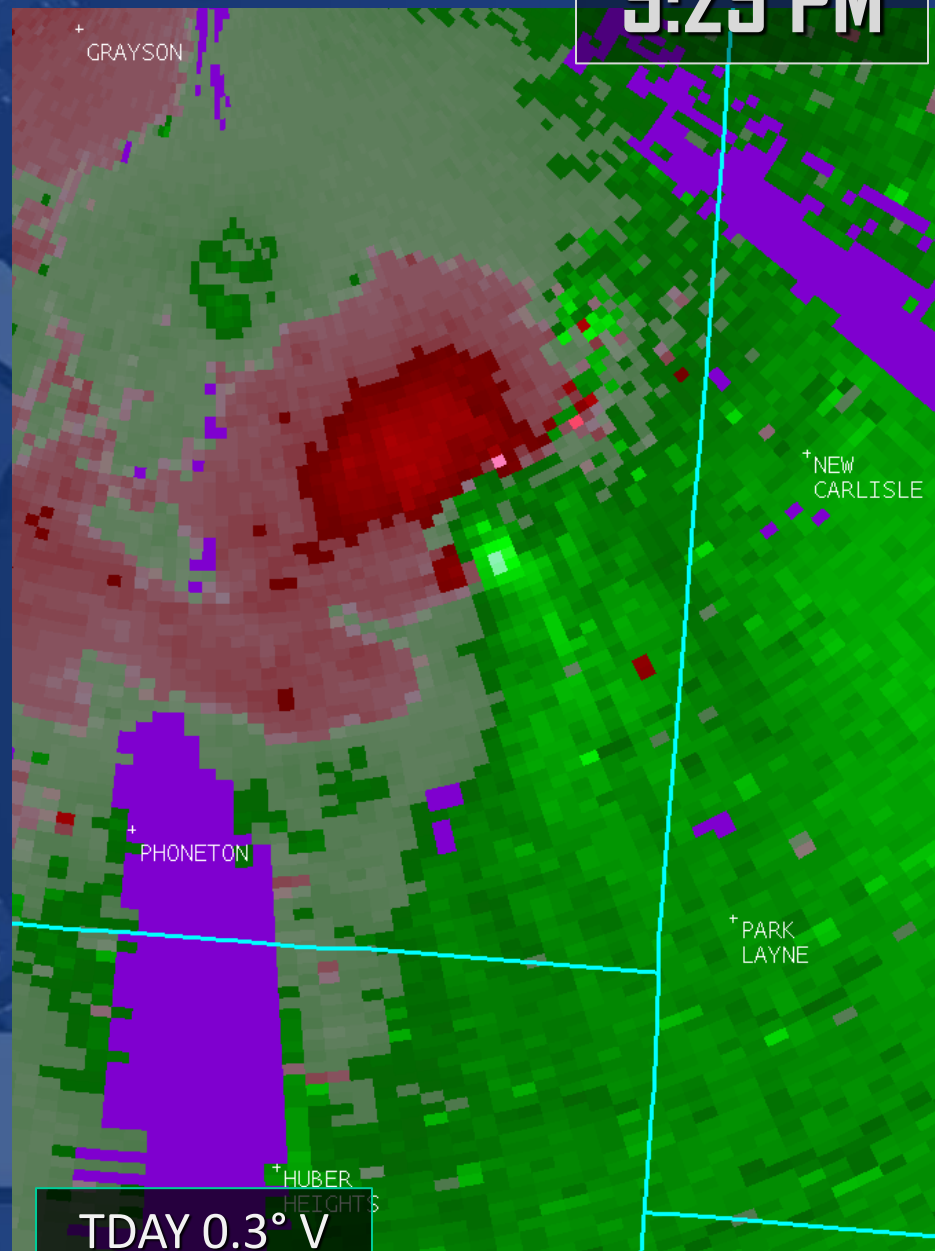
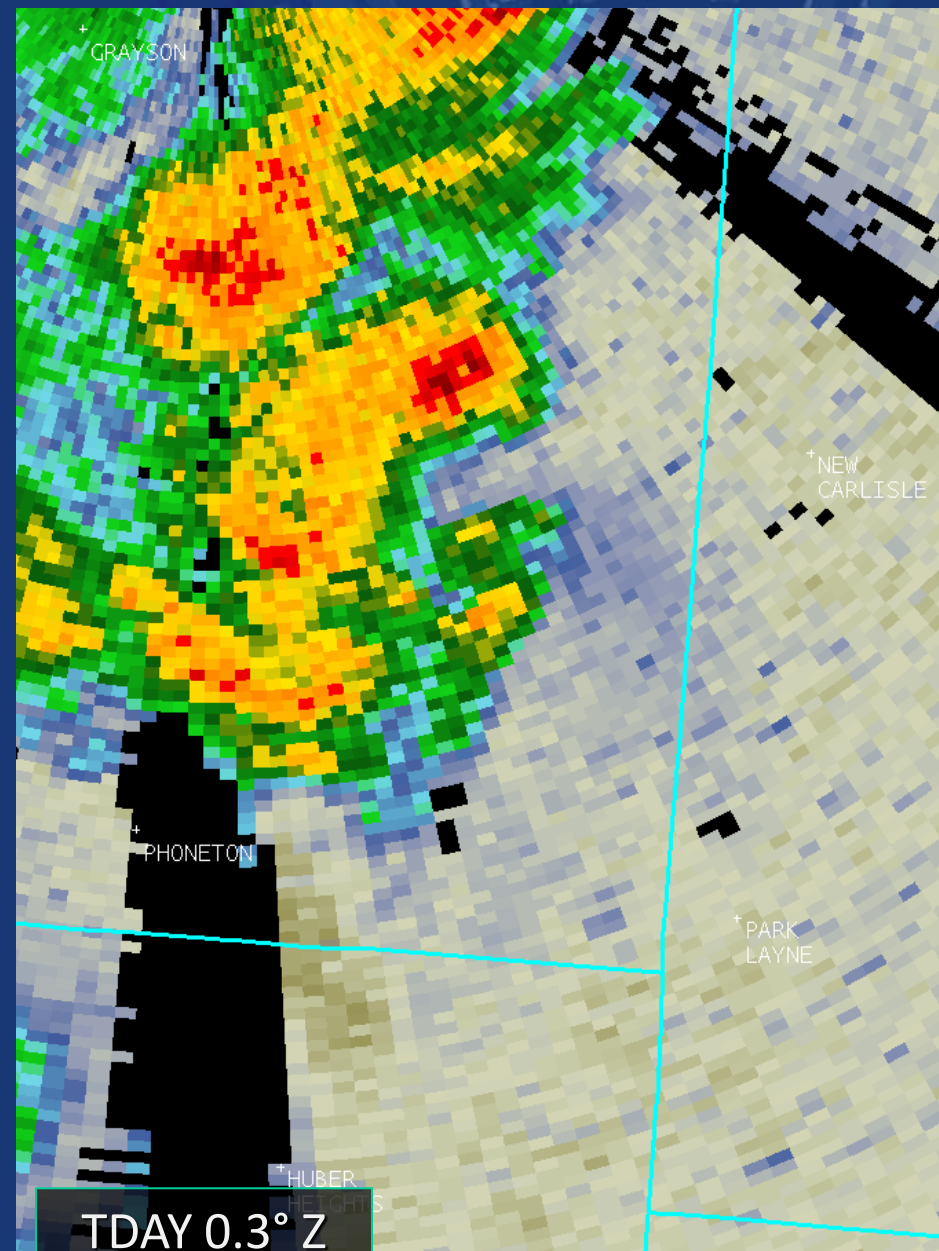
May 24, 2017
9:28 PM



#5: Park Layne

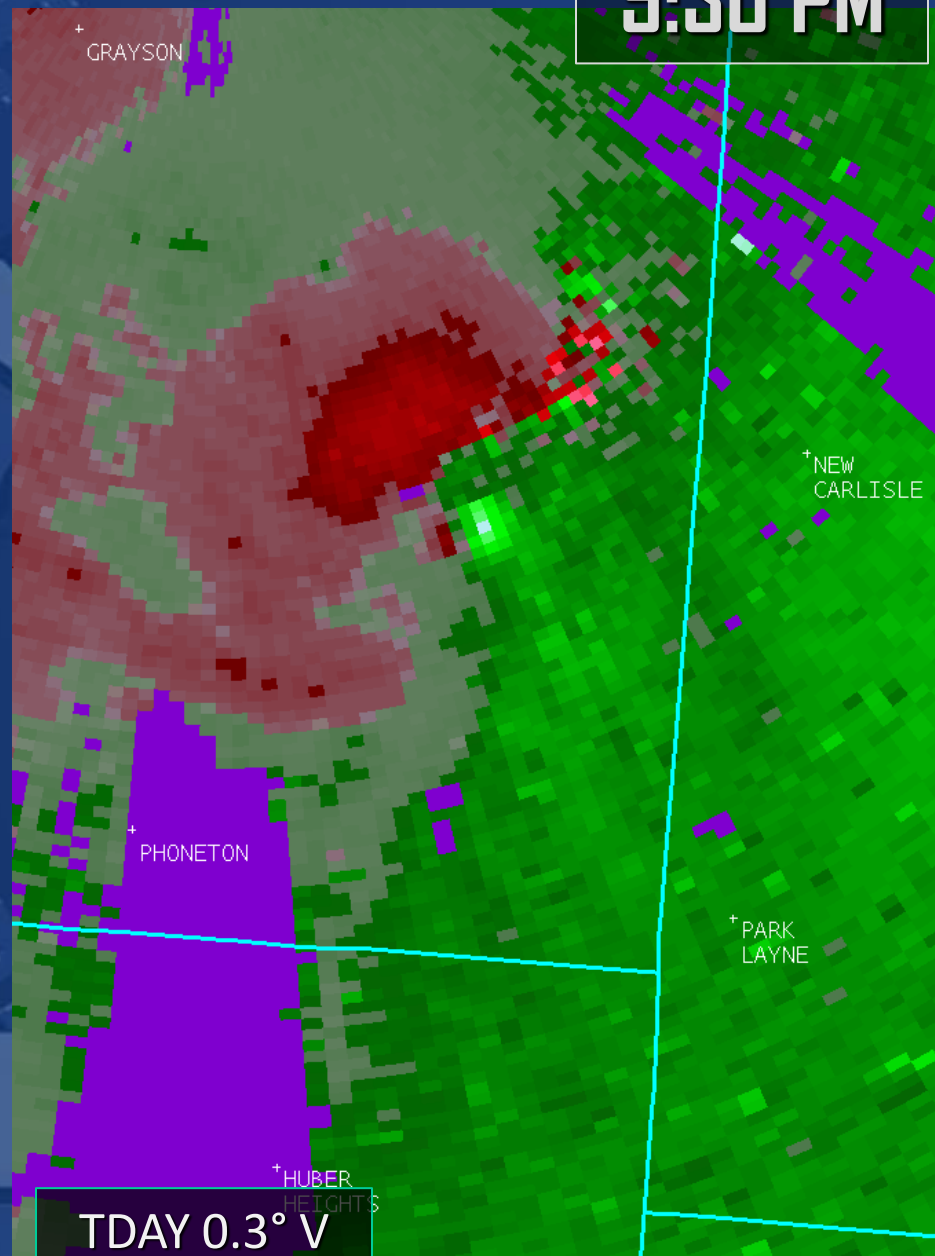
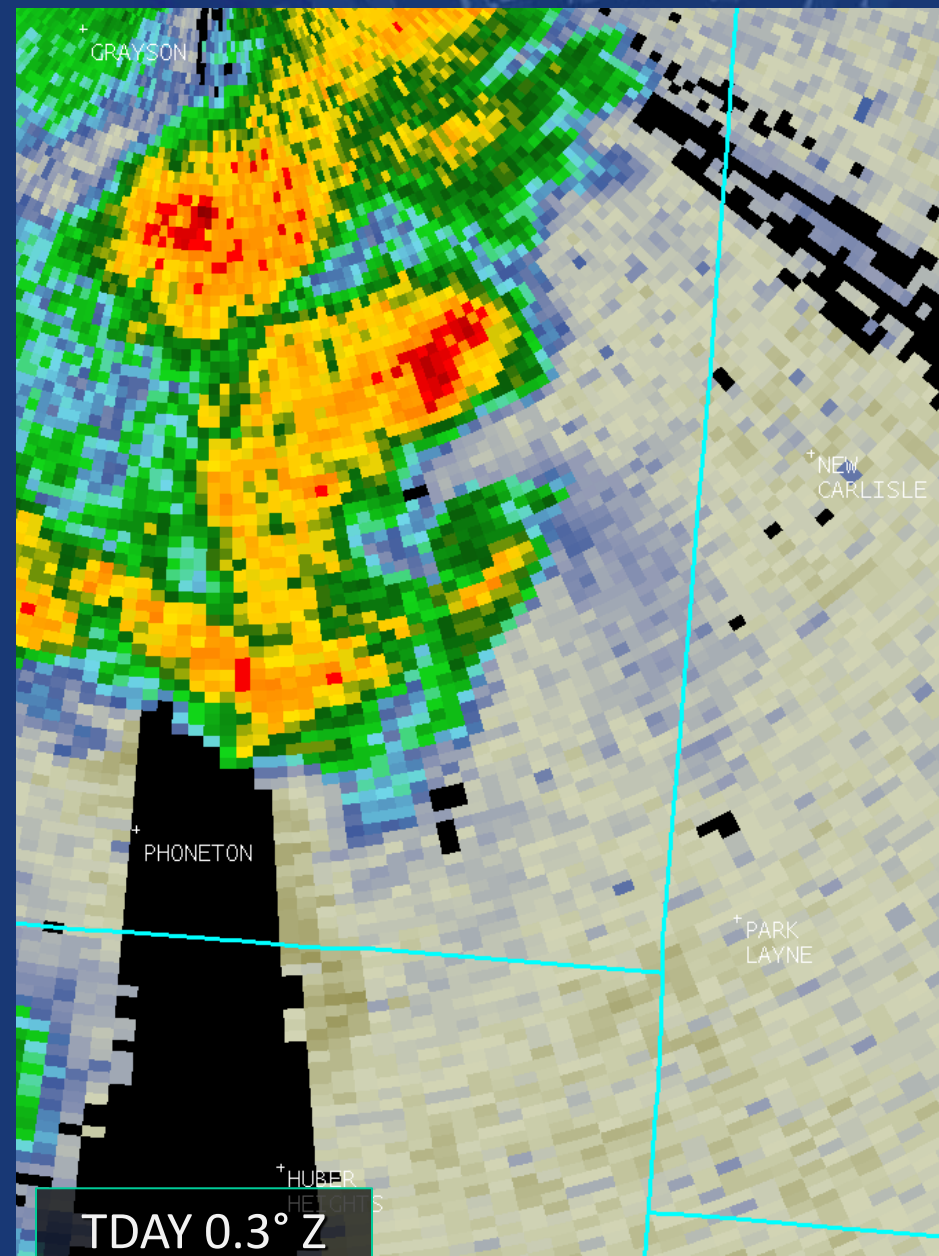
May 24, 2017

9:29 PM



#5: Park Layne

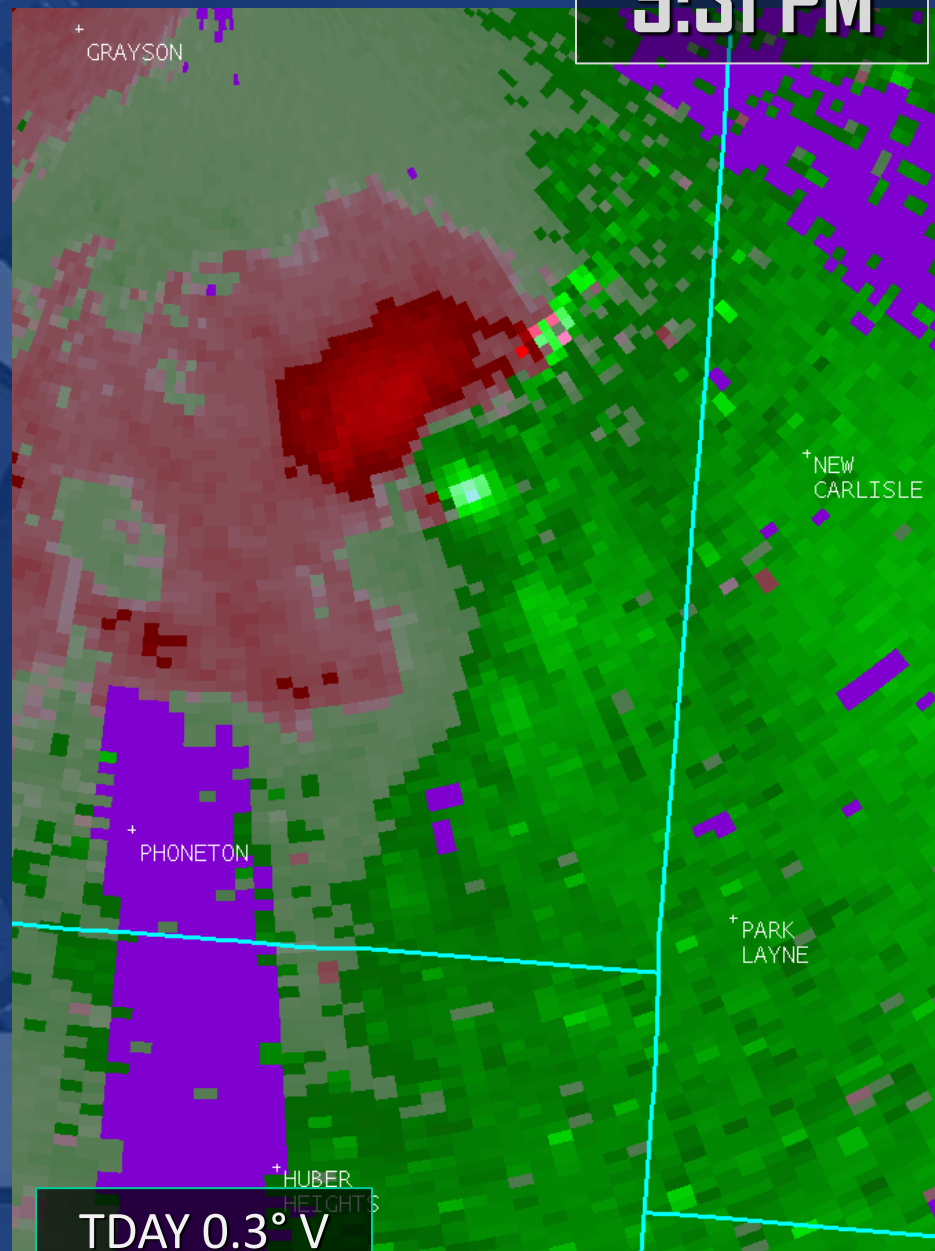
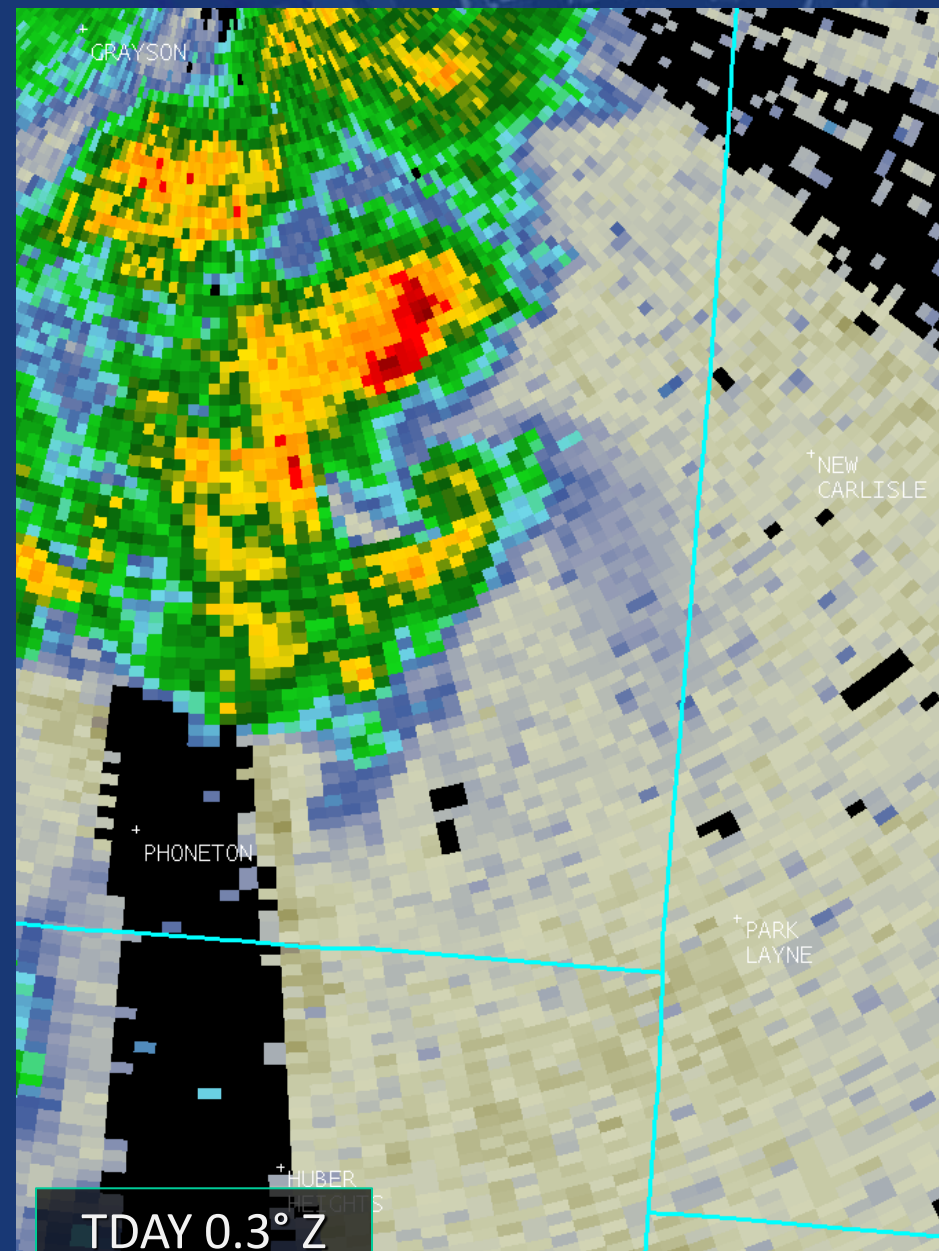
May 24, 2017
9:30 PM



#5: Park Layne

May 24, 2017

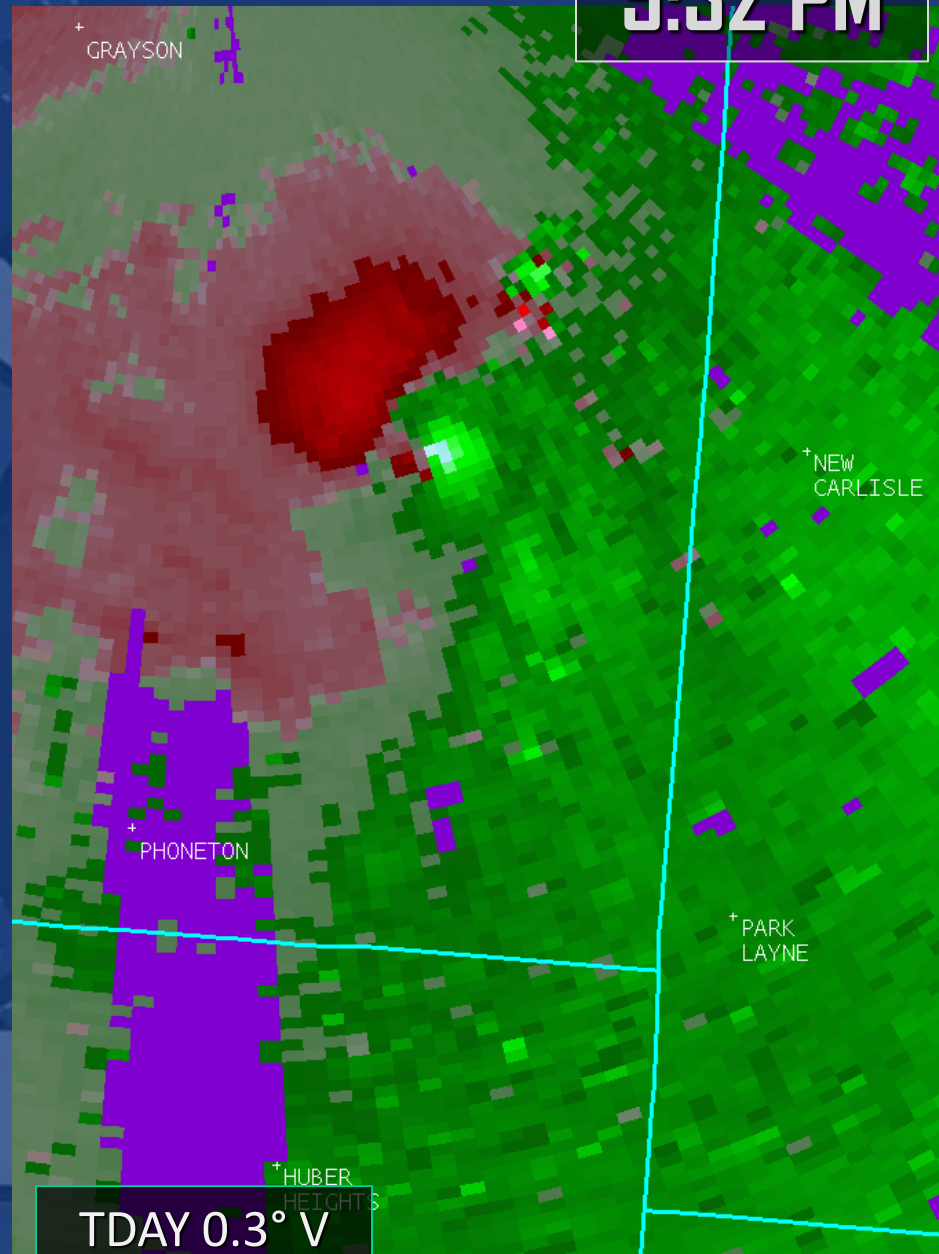
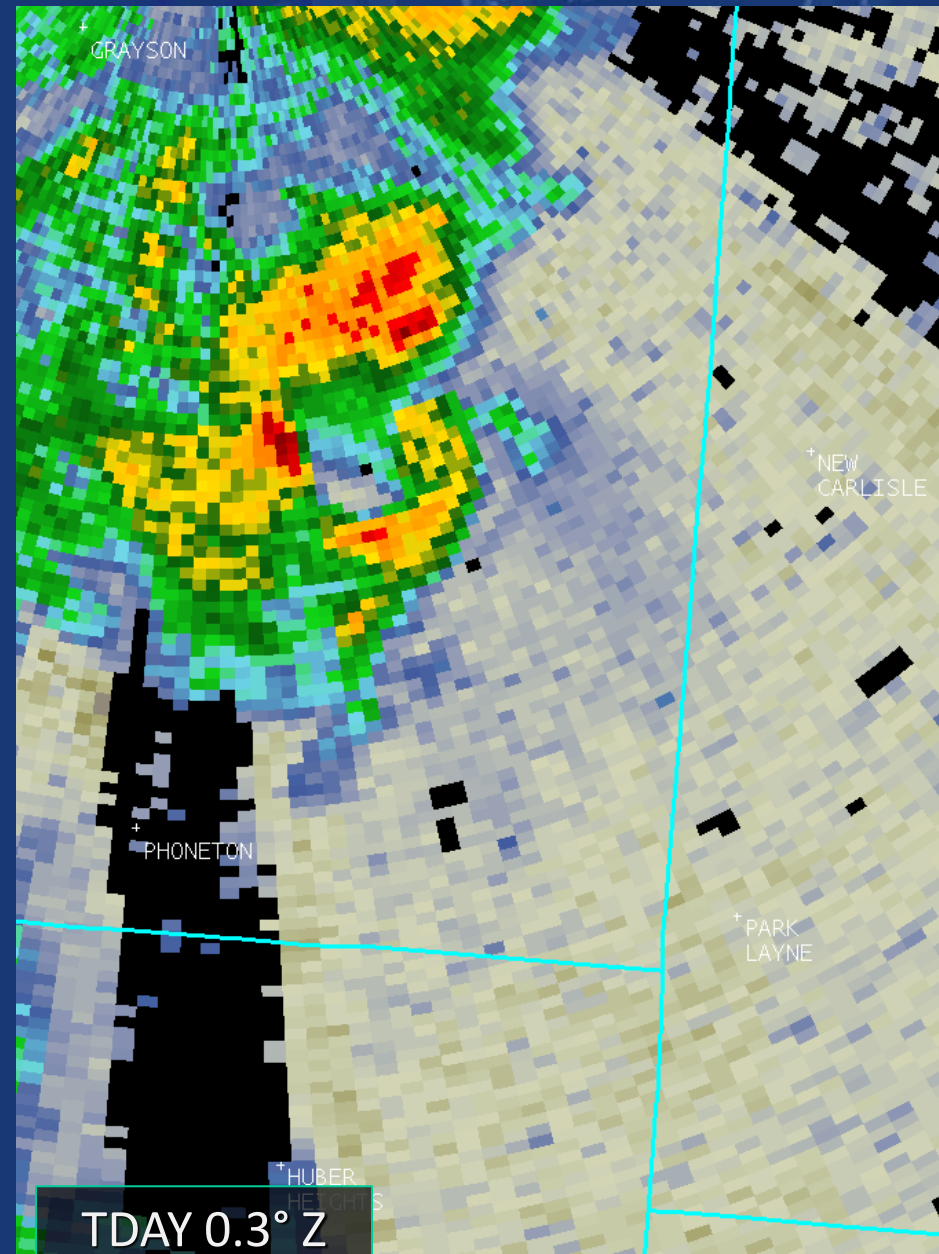
9:31 PM



#5: Park Layne

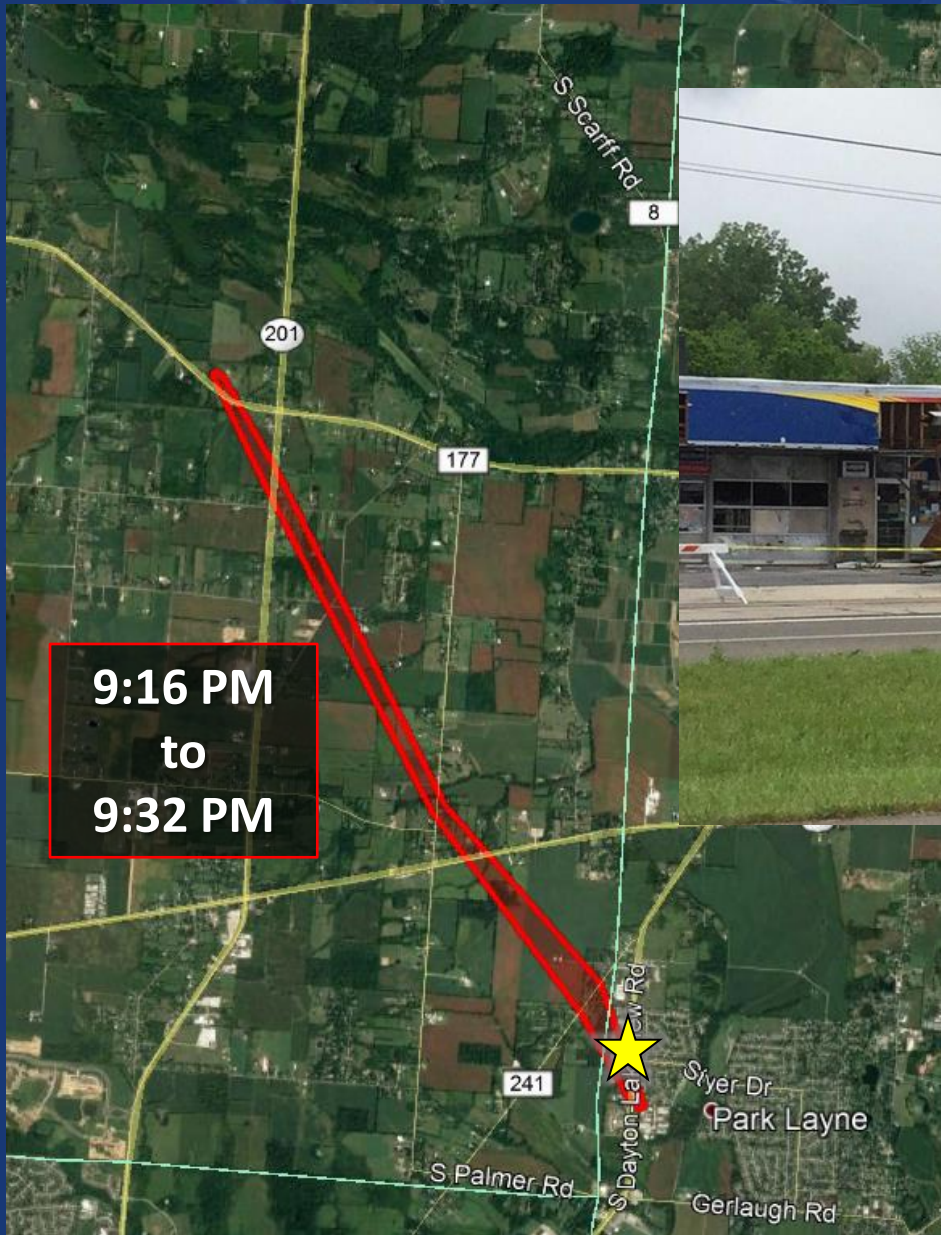
May 24, 2017

9:32 PM



#5: Park Layne

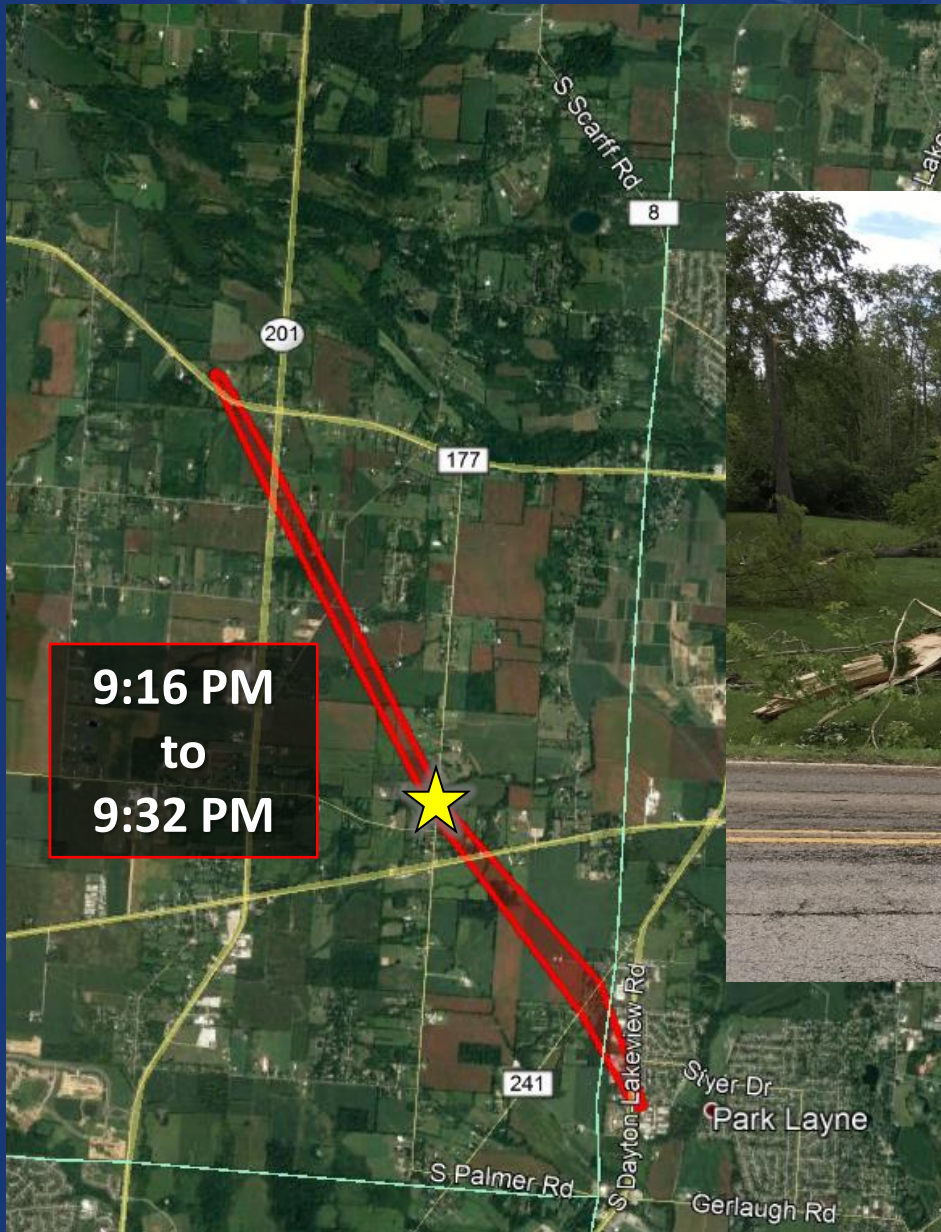
May 24, 2017
9:36 PM



NWS Wilmington OH

#5: Park Layne

May 24, 2017
9:36 PM



#5: Park Layne

May 24, 2017

9:36 PM



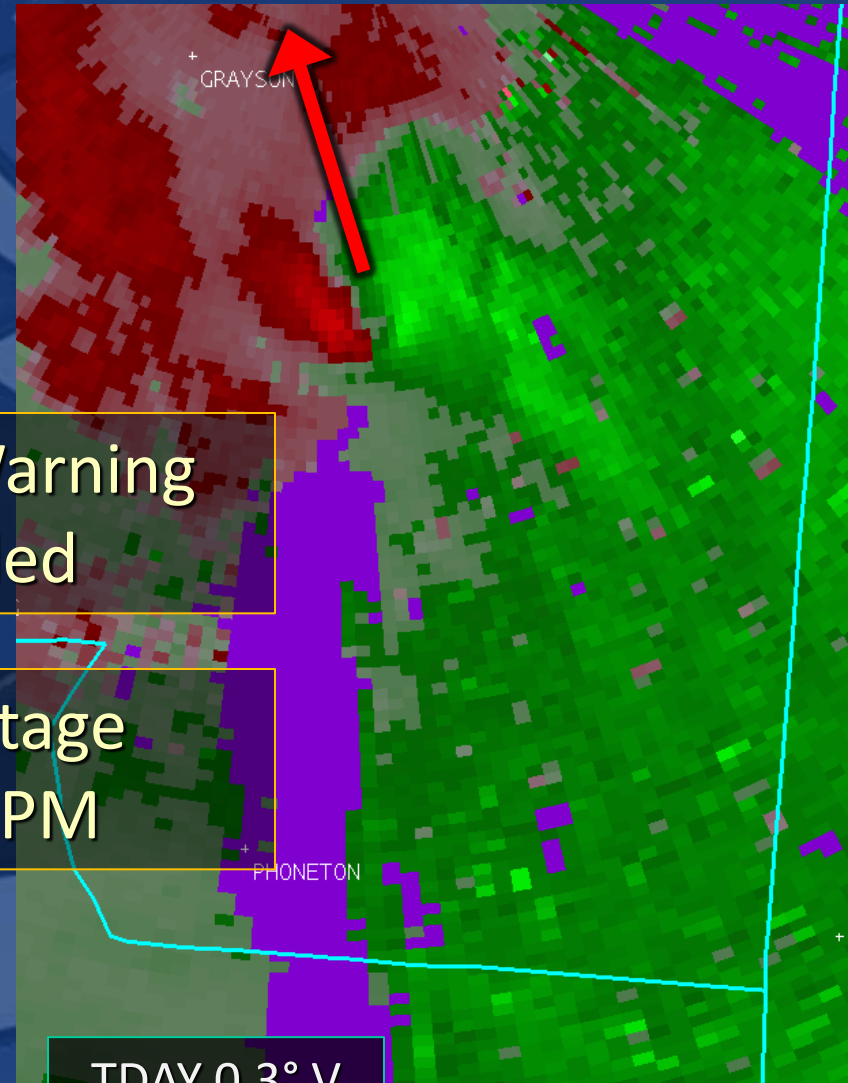
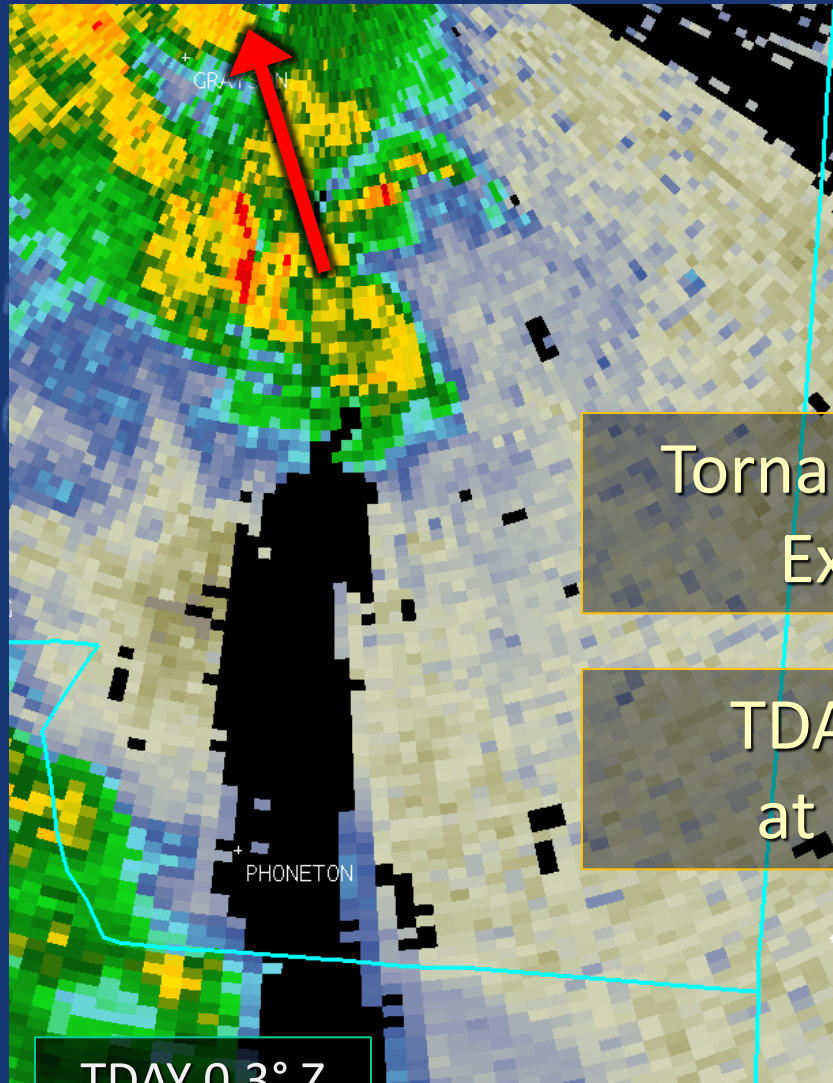
9:16 PM
to
9:32 PM



NWS Wilmington OH

One Final Break...

May 24, 2017
9:40 PM



Tornado Warning
Extended

TDAY outage
at 9:45 PM

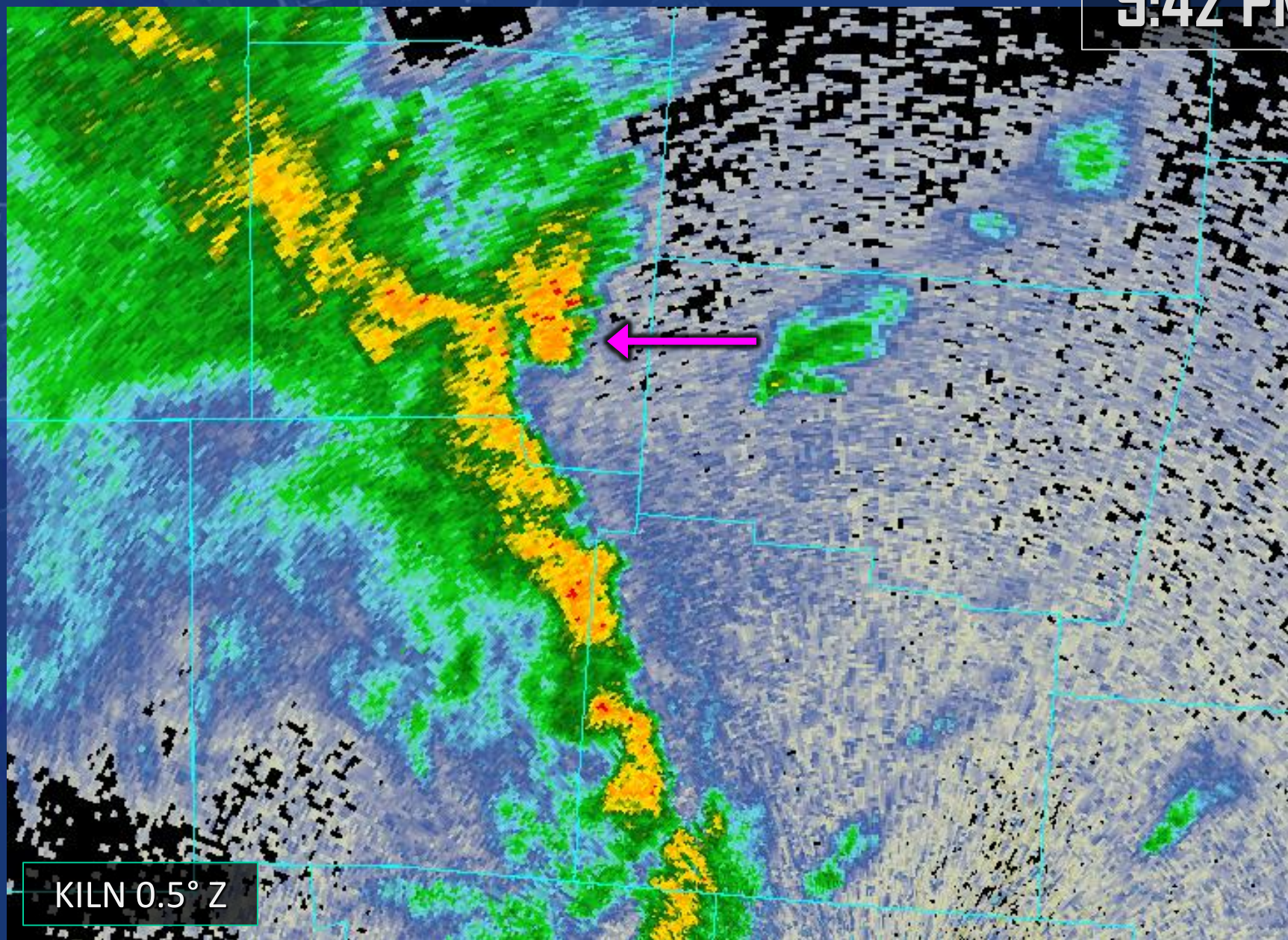
TDAY 0.3° Z

TDAY 0.3° V

One Final Break...

May 24, 2017

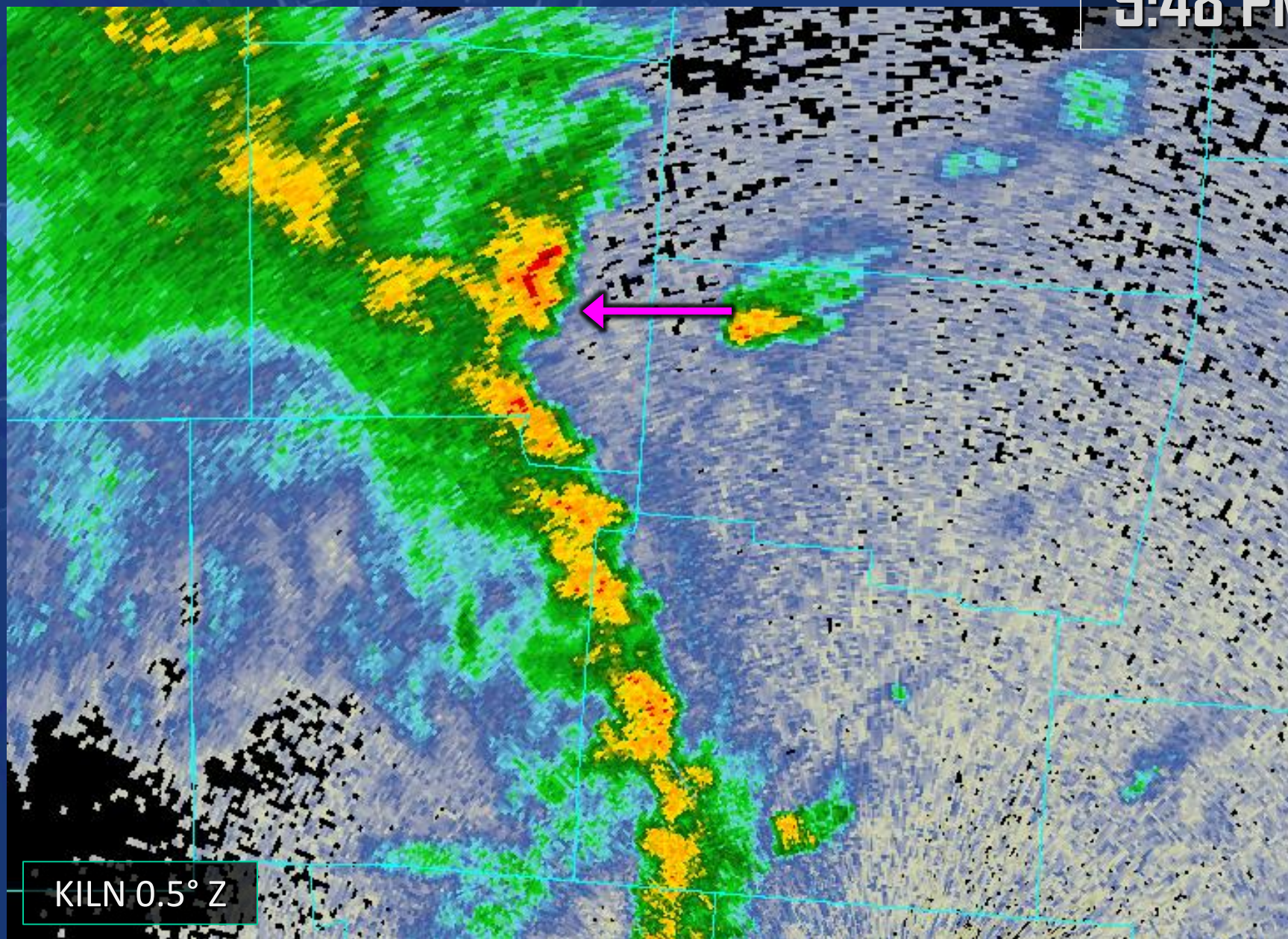
9:42 PM



One Final Break...

May 24, 2017

9:48 PM

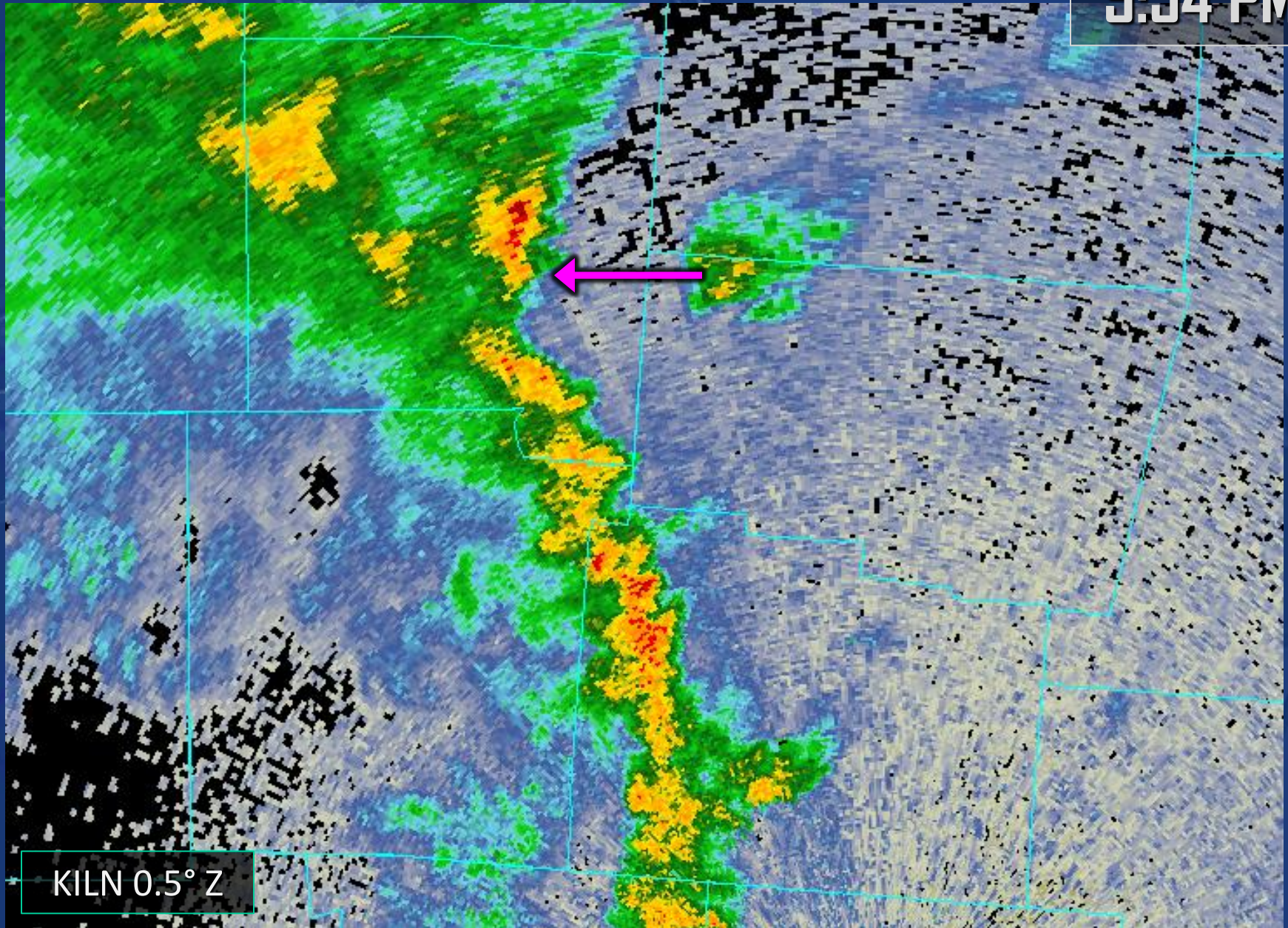


KILN 0.5° Z

One Final Break...

May 24, 2017

9:54 PM



KILN 0.5° Z

#6: Casstown

May 24, 2017

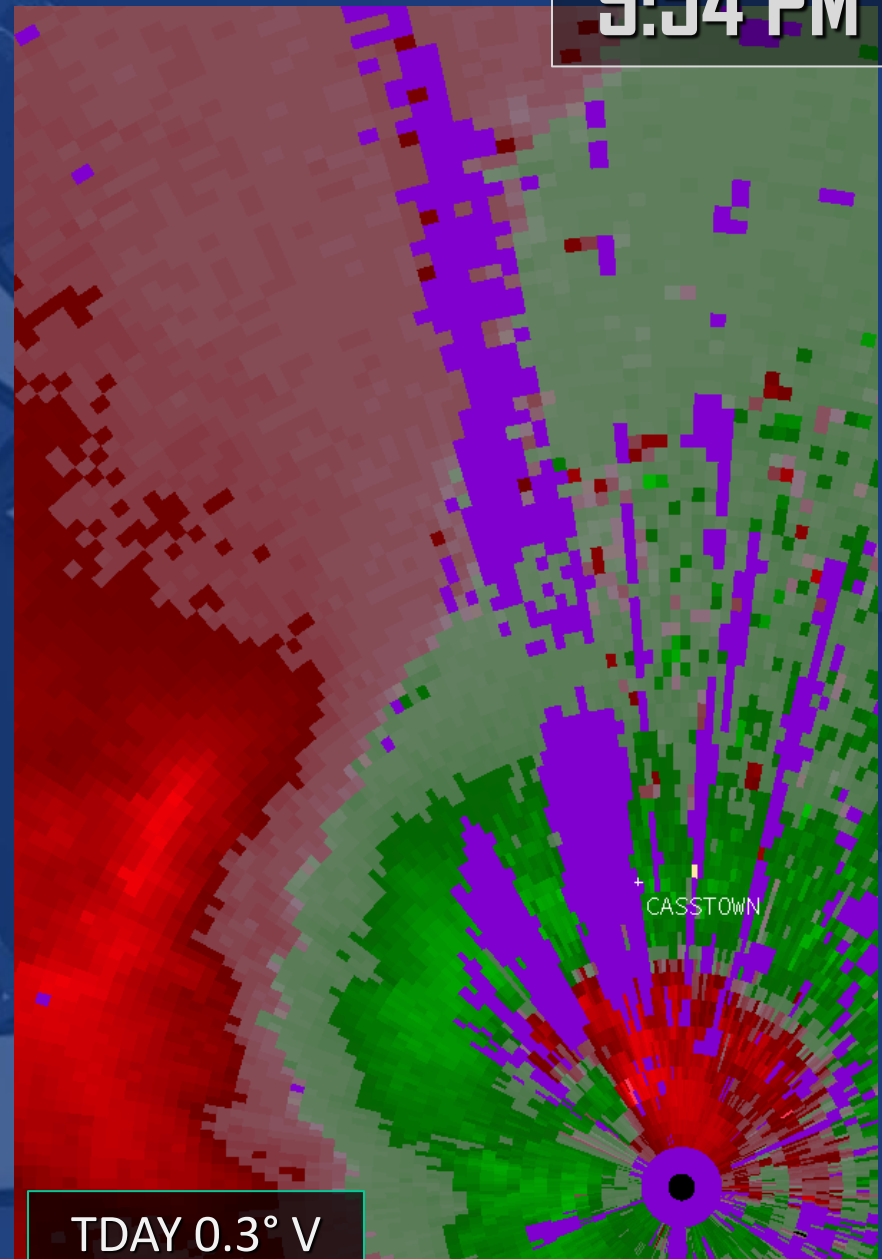
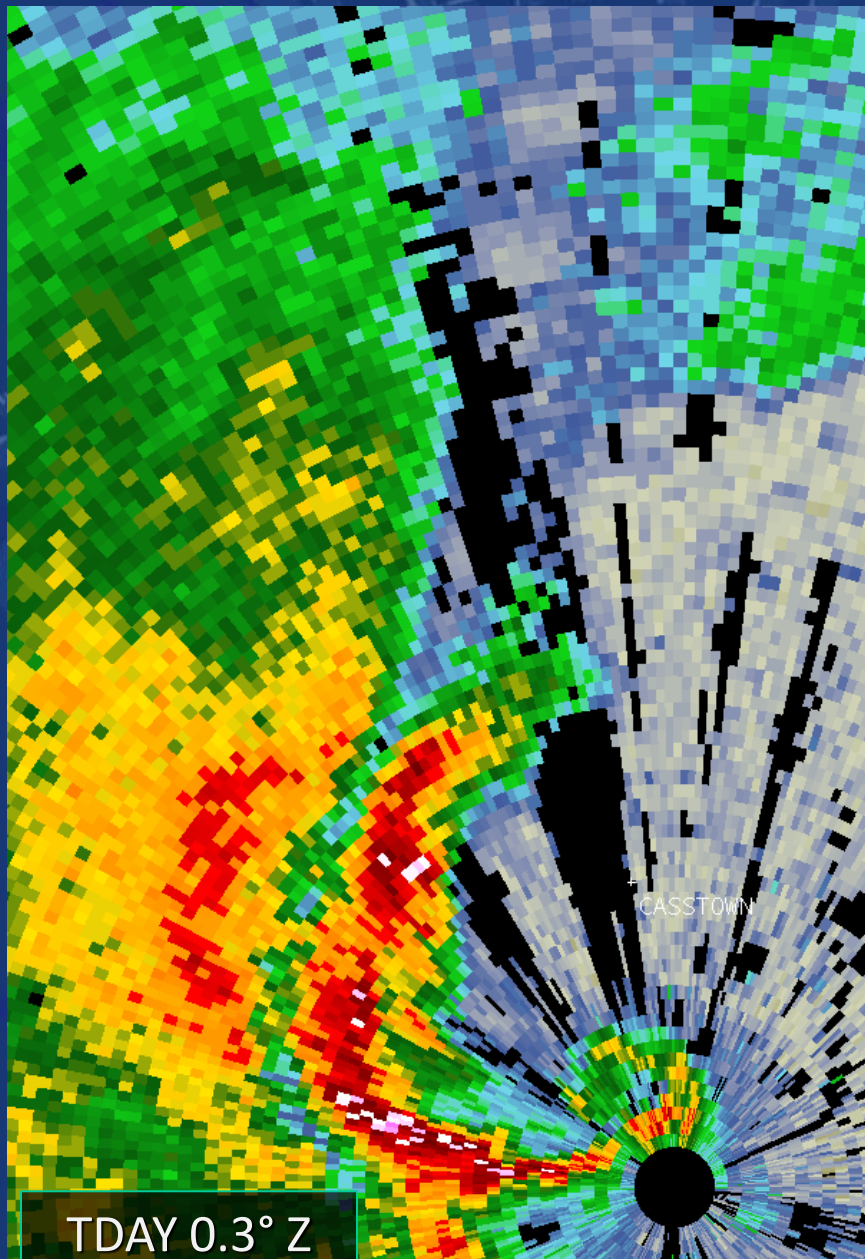
9:54 PM

TDAY returns to service
at 9:54 PM

#6: Casstown

May 24, 2017

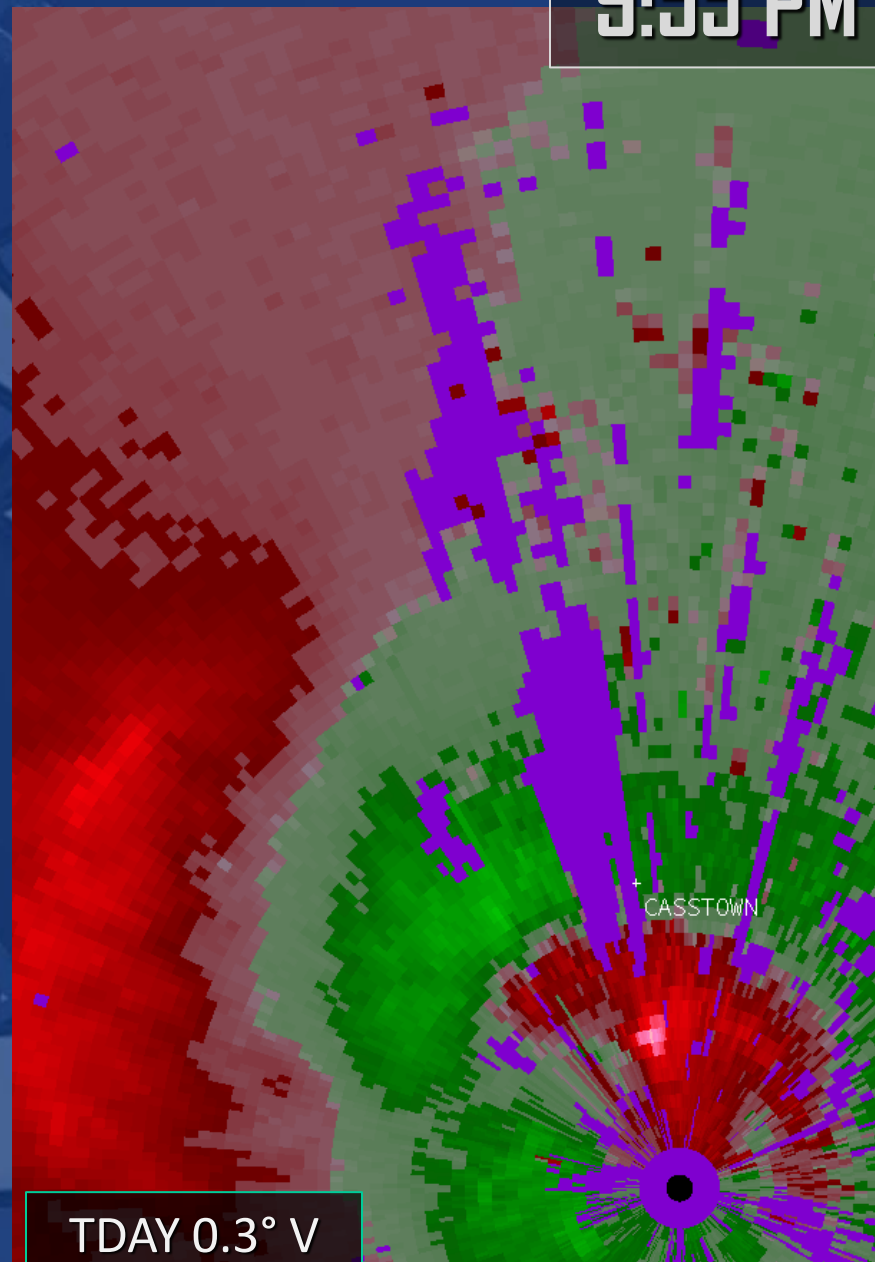
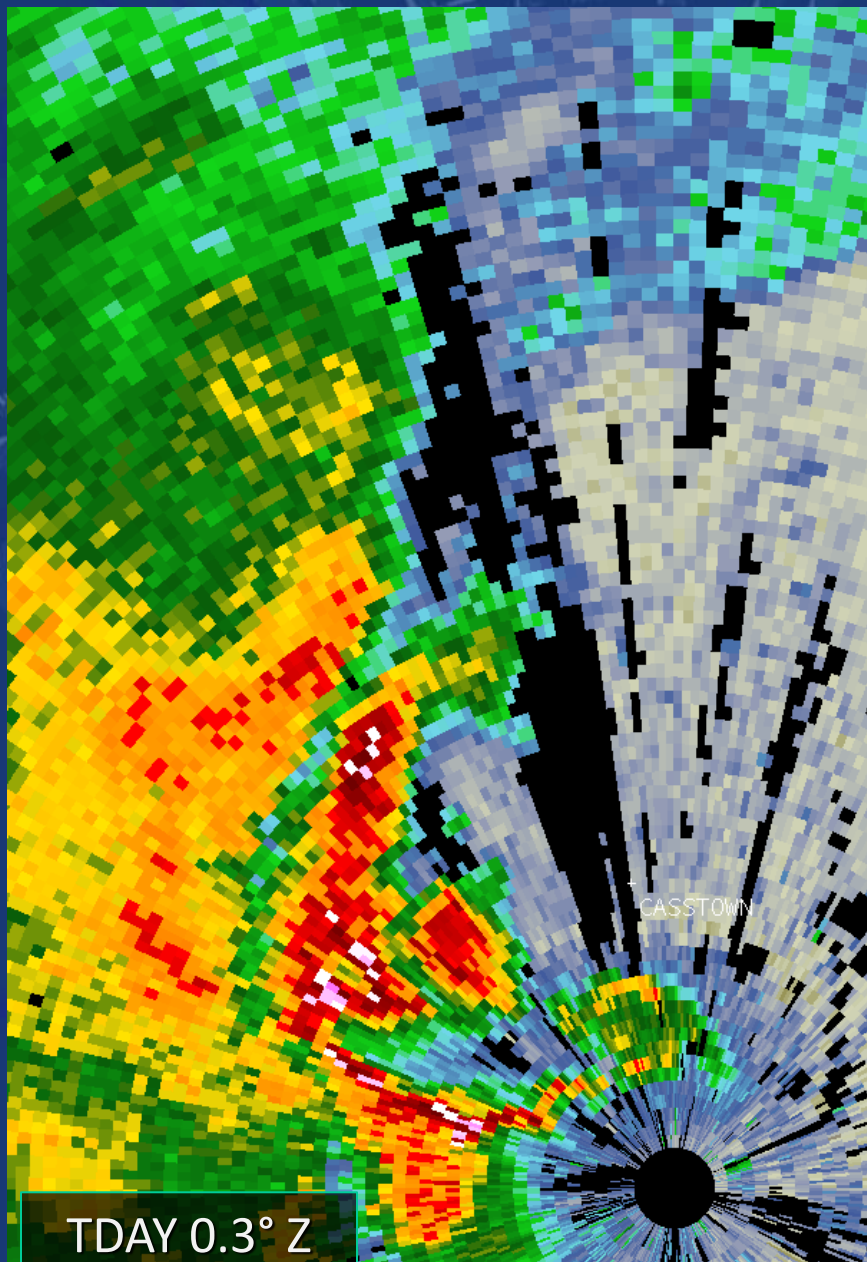
9:54 PM



#6: Casstown

May 24, 2017

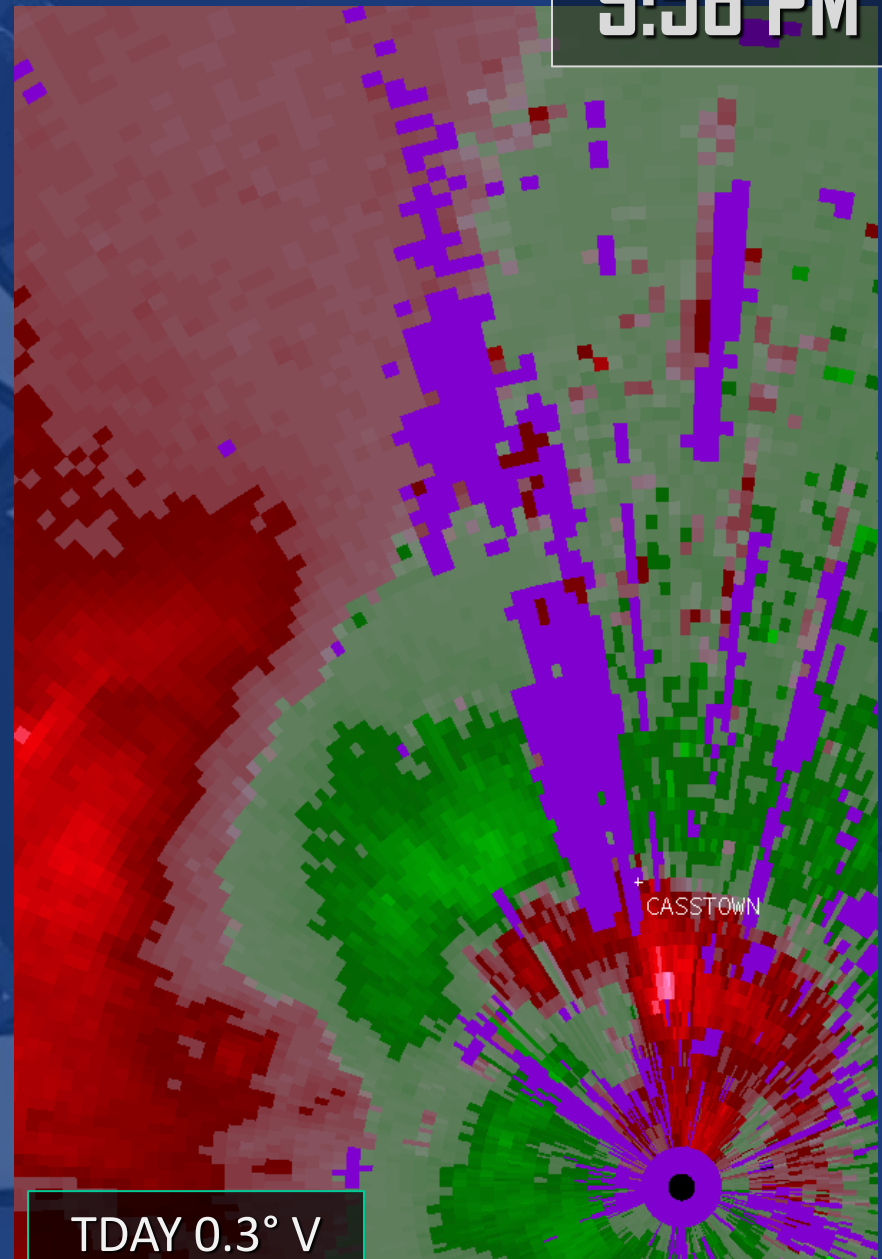
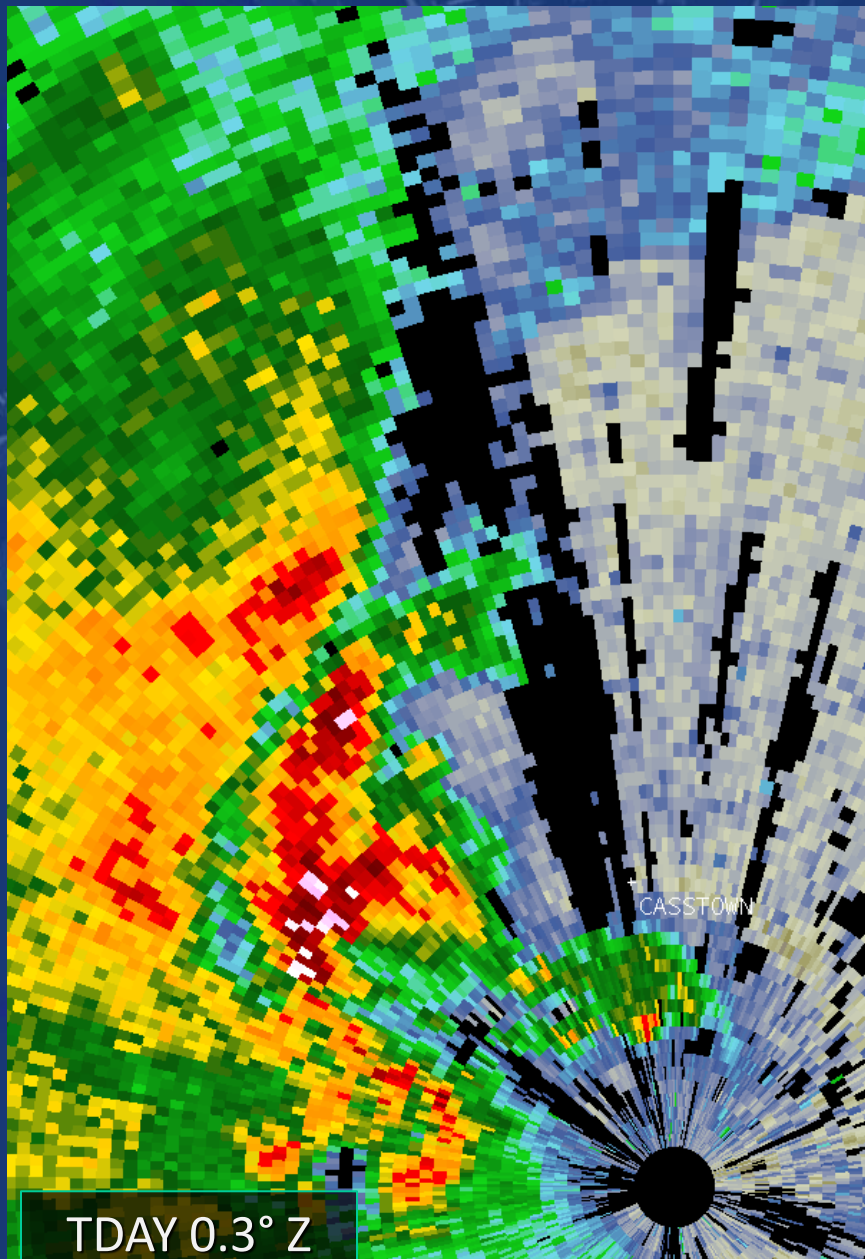
9:55 PM



#6: Casstown

May 24, 2017

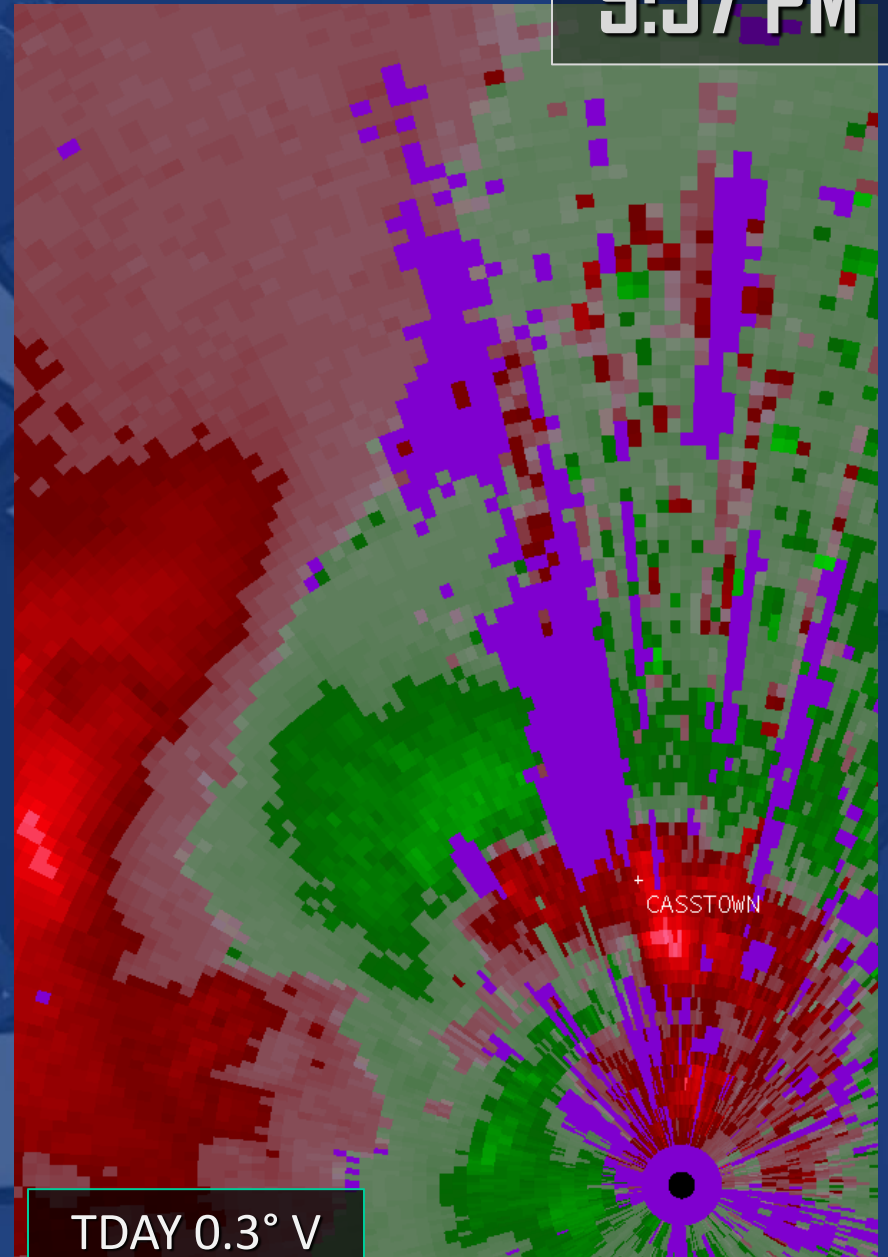
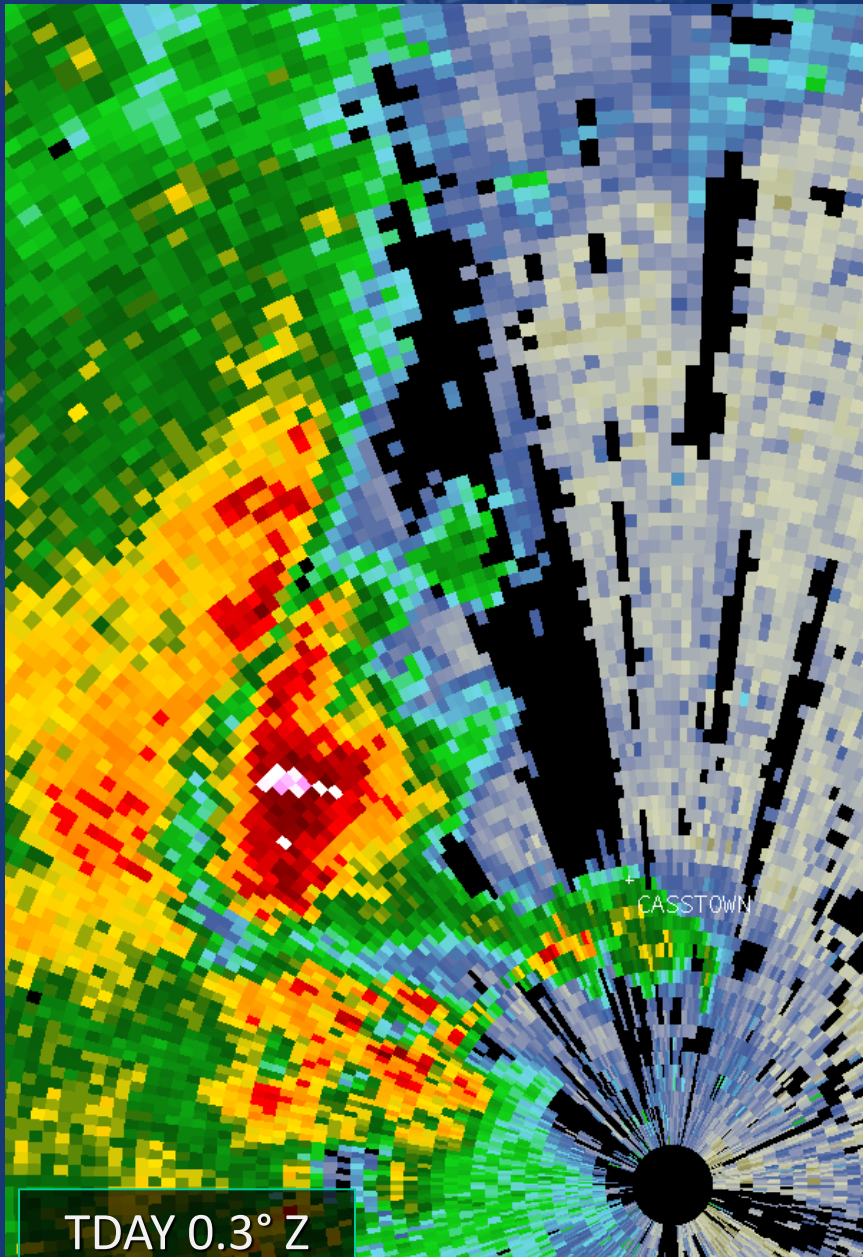
9:56 PM



#6: Casstown

May 24, 2017

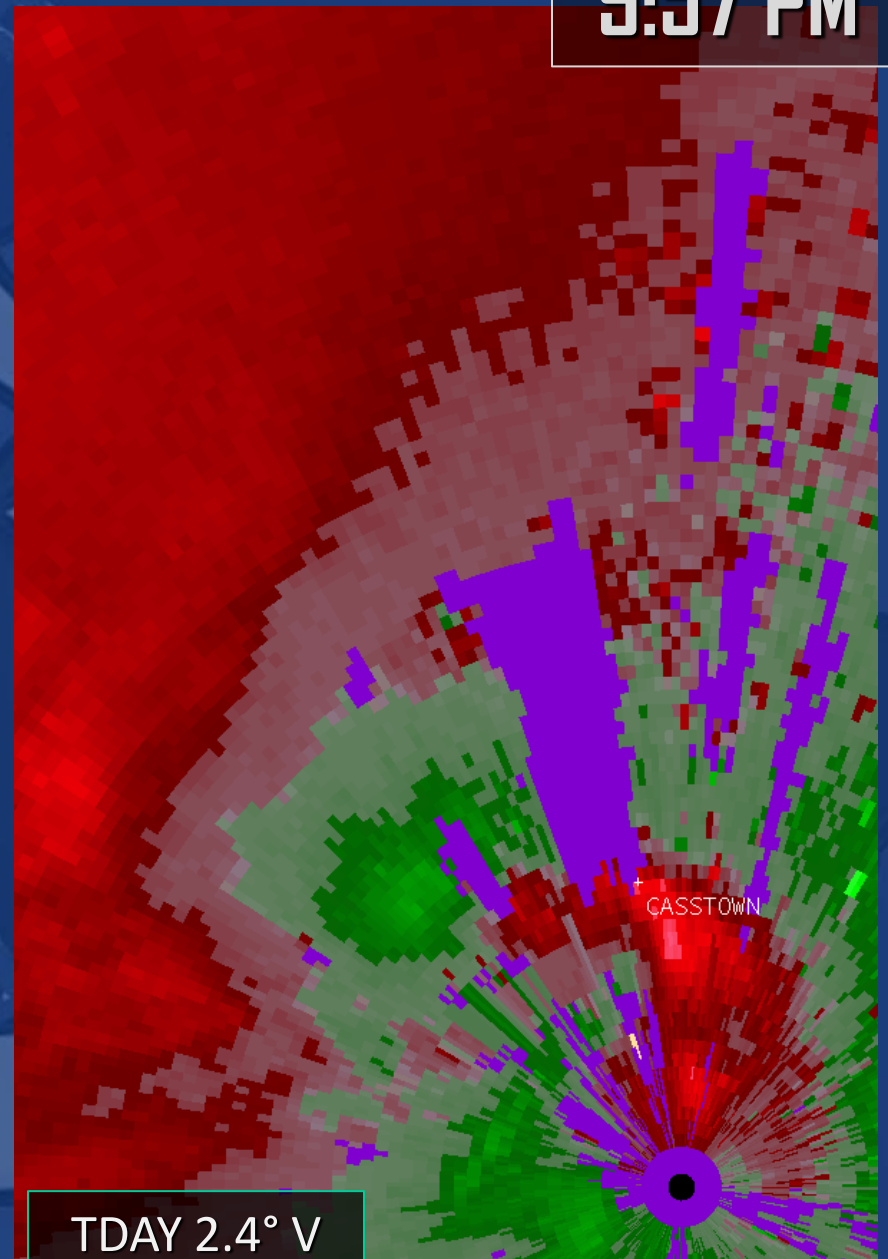
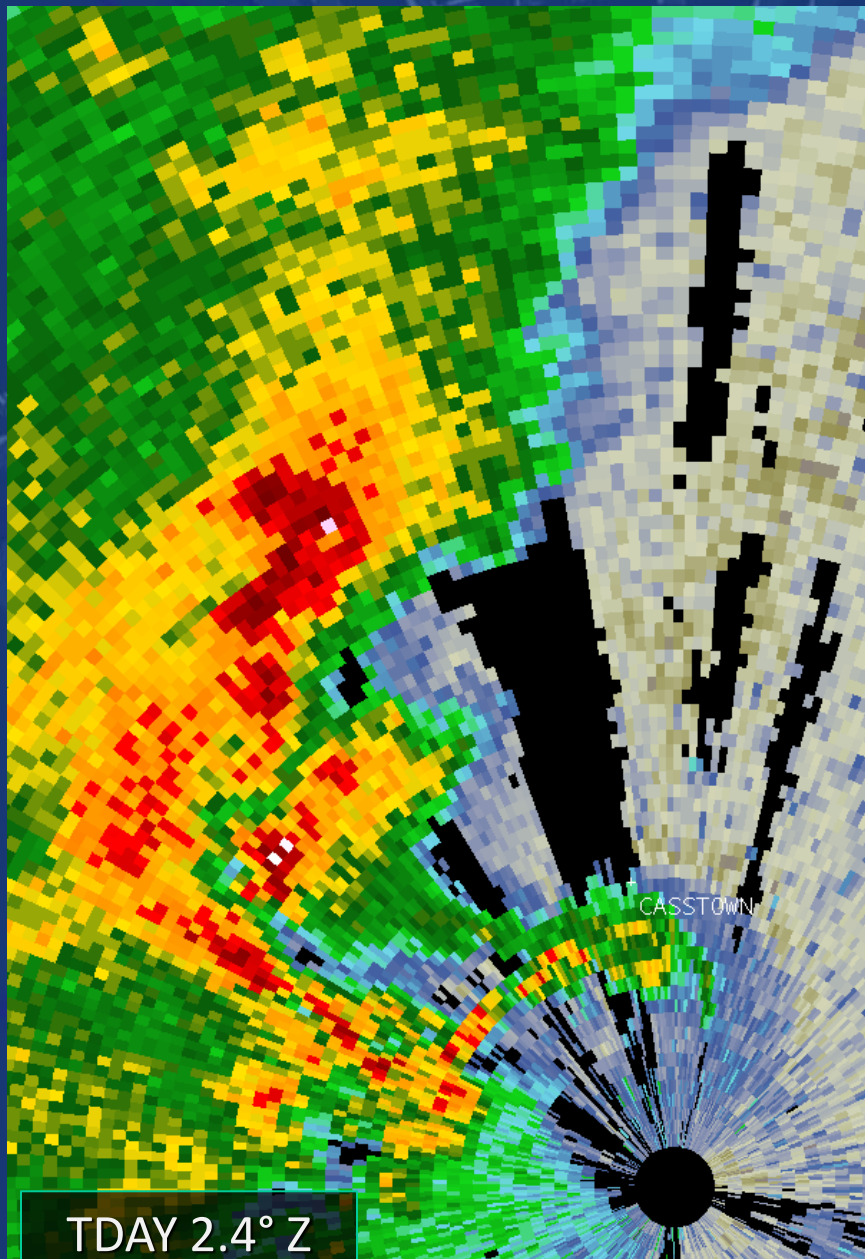
9:57 PM



#6: Casstown

May 24, 2017

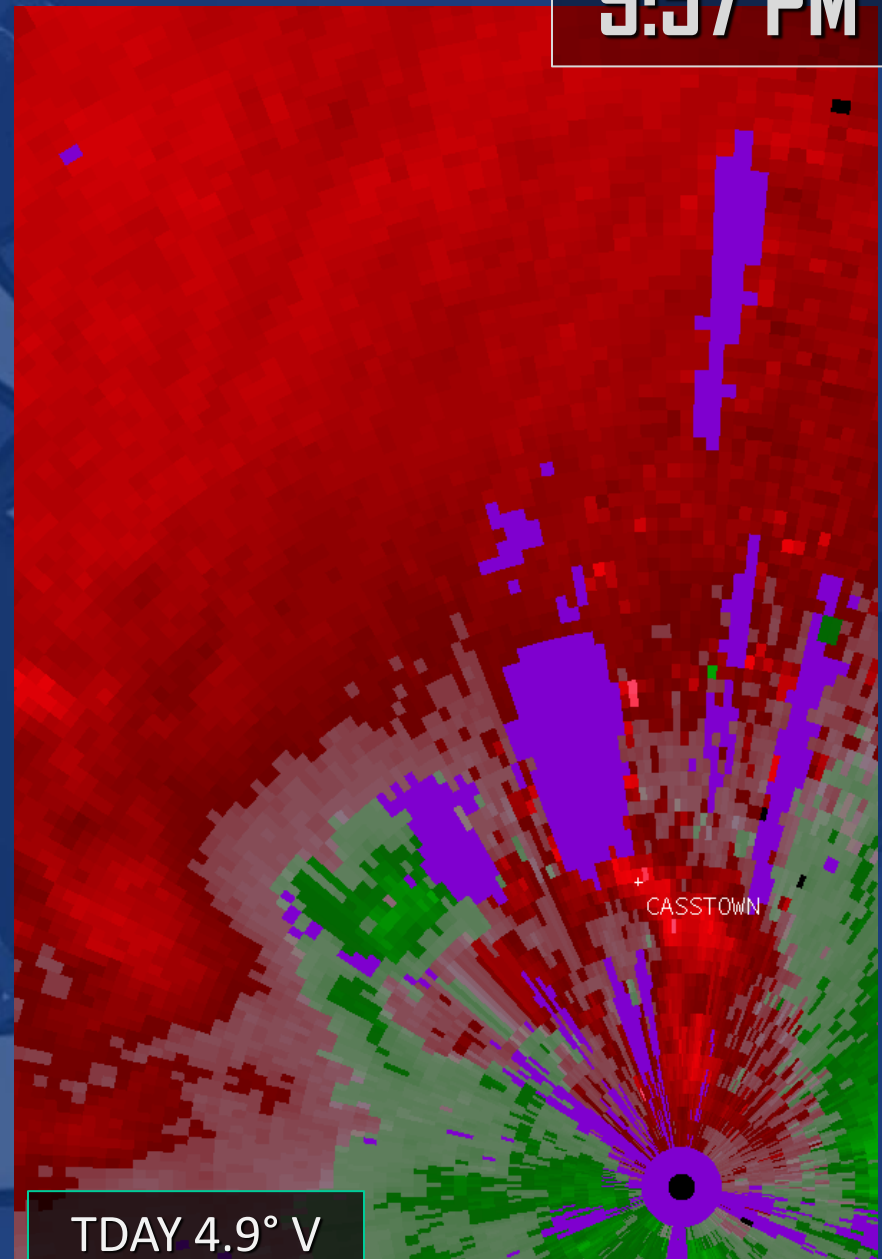
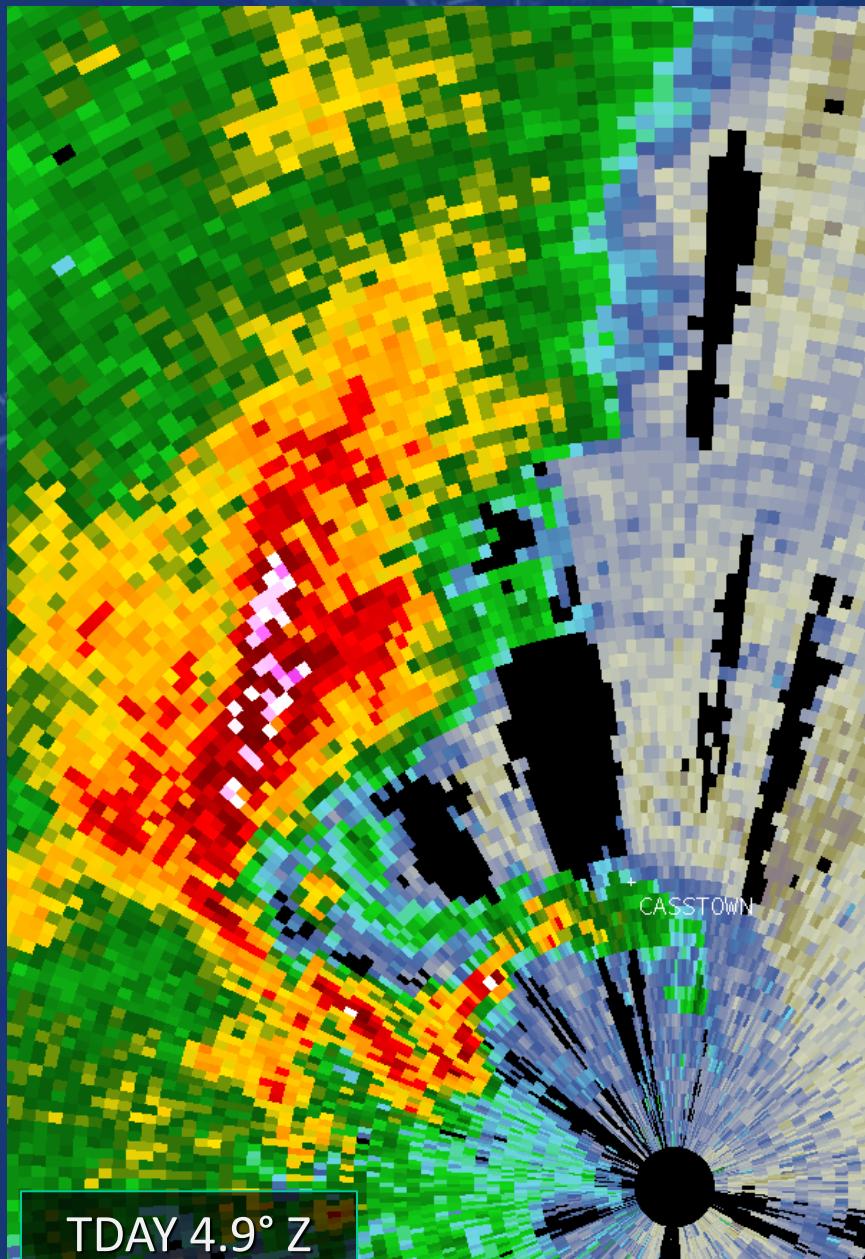
9:57 PM



#6: Casstown

May 24, 2017

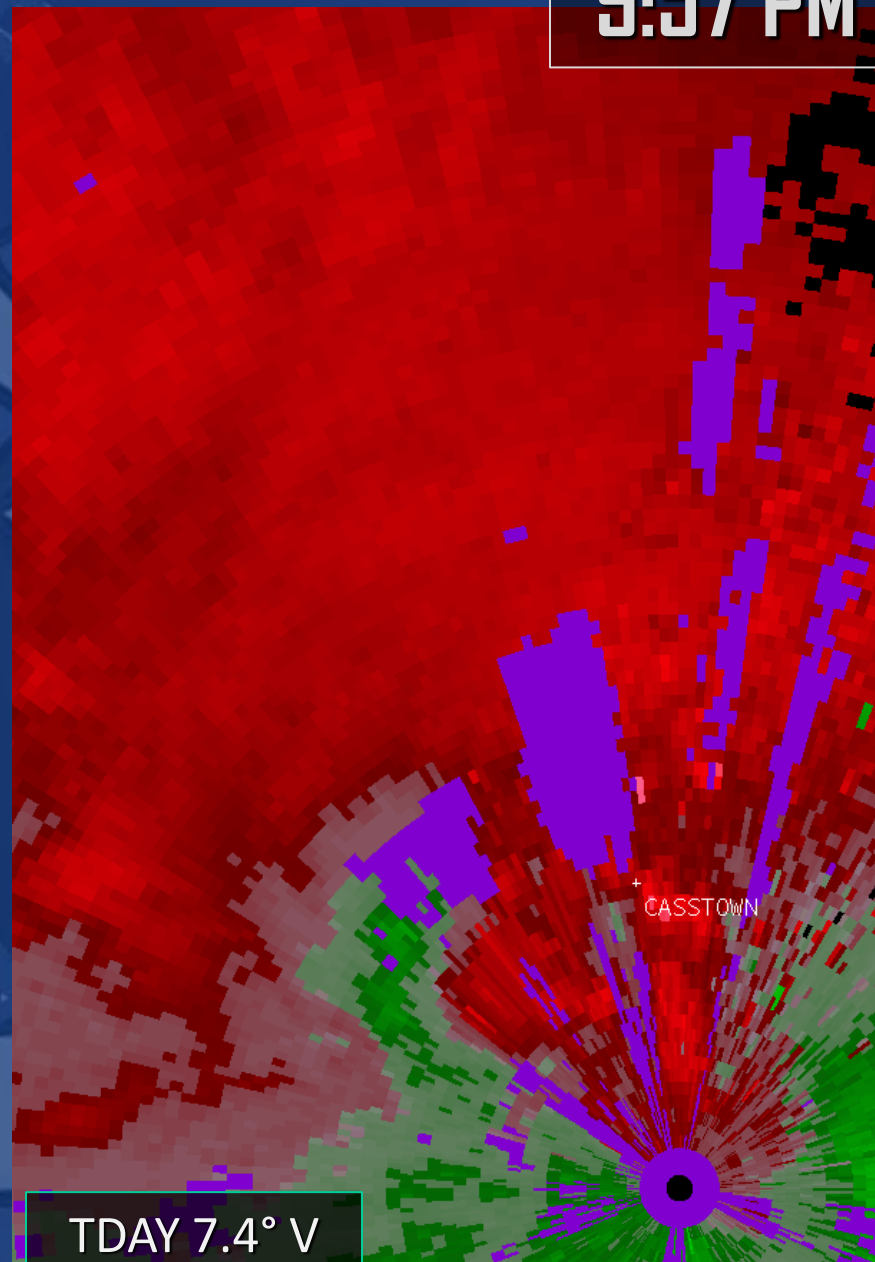
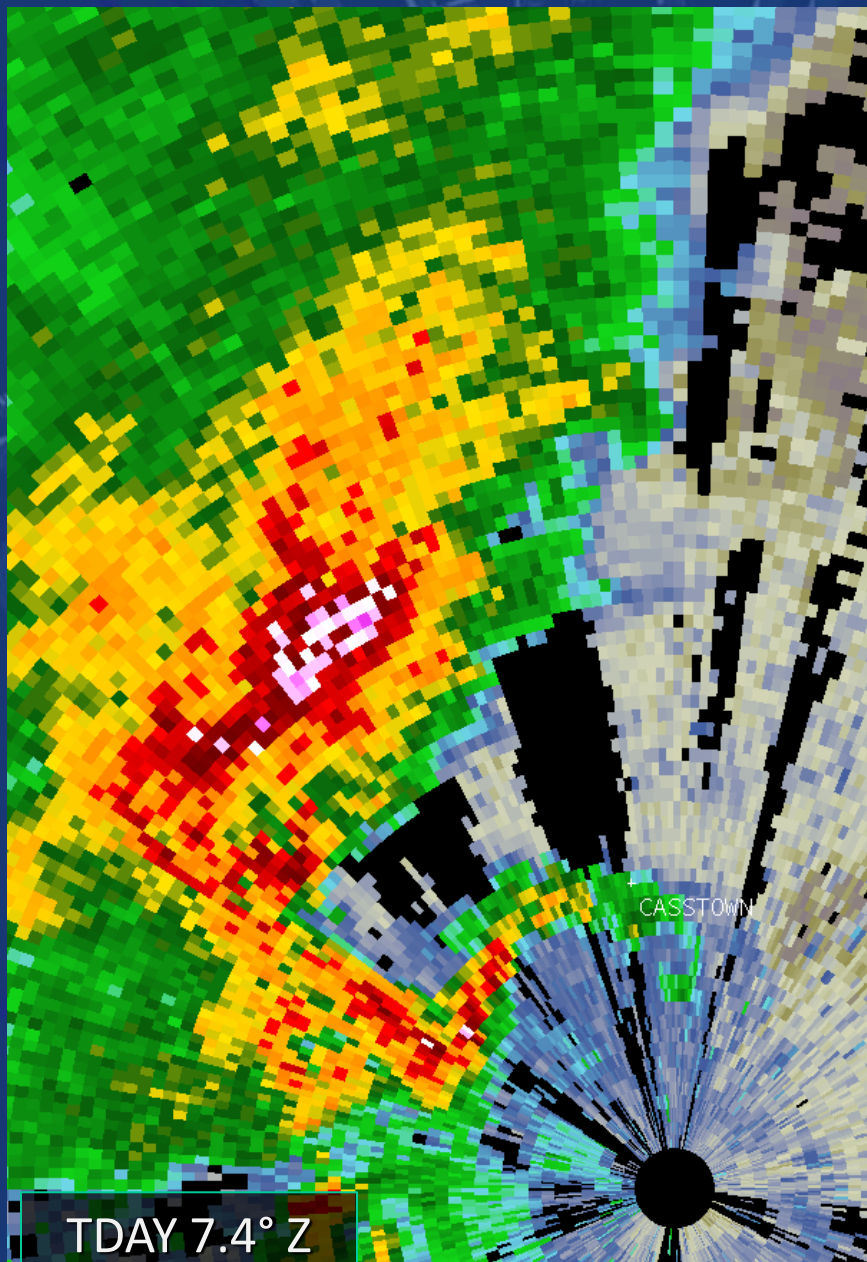
9:57 PM



#6: Casstown

May 24, 2017

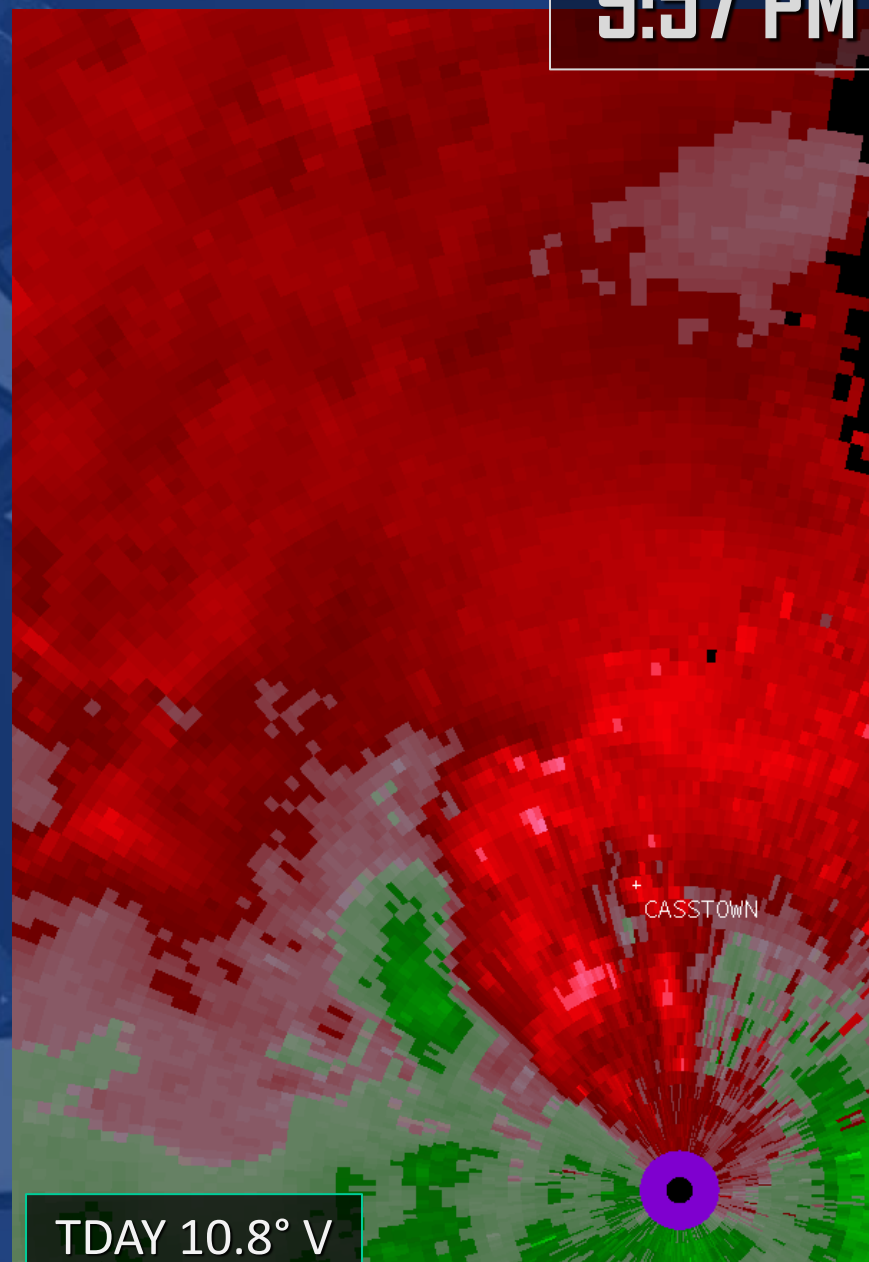
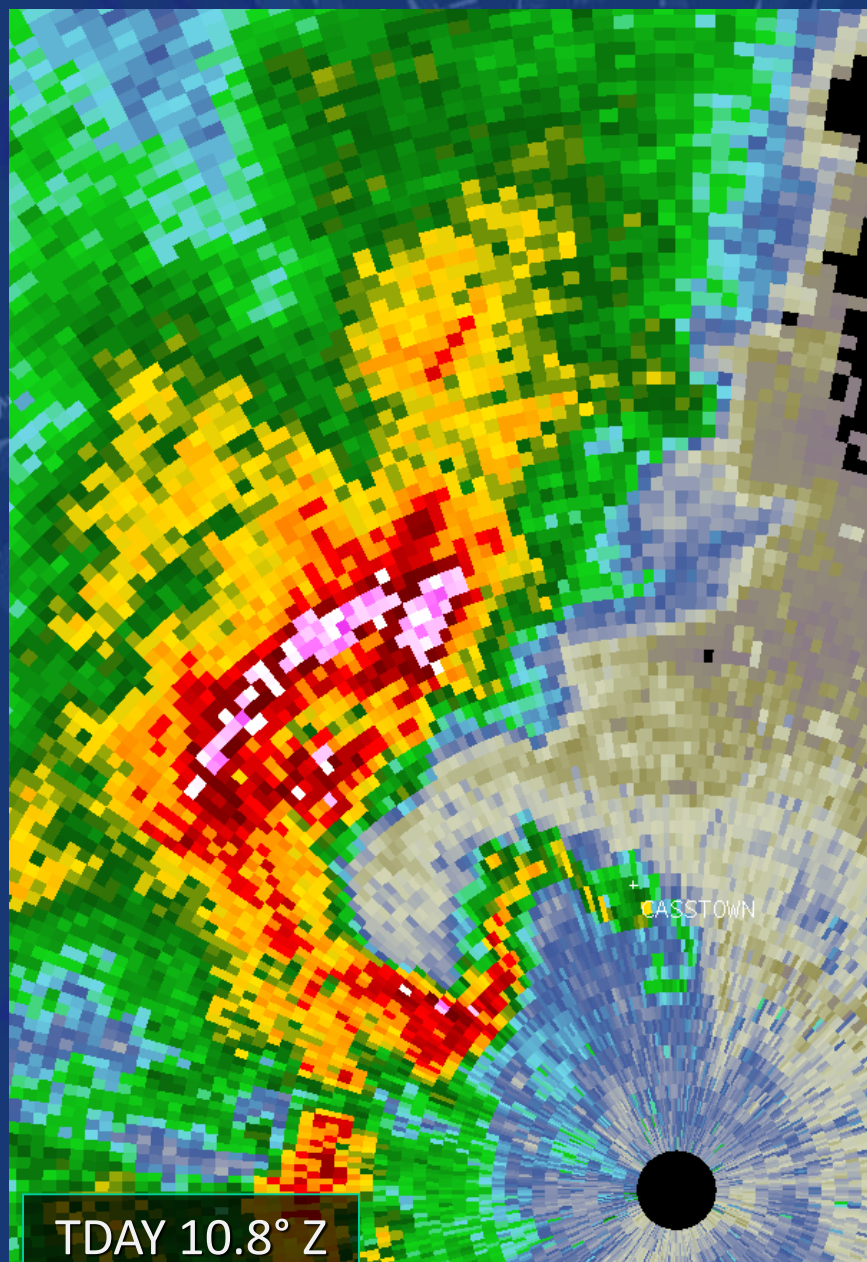
9:57 PM



#6: Casstown

May 24, 2017

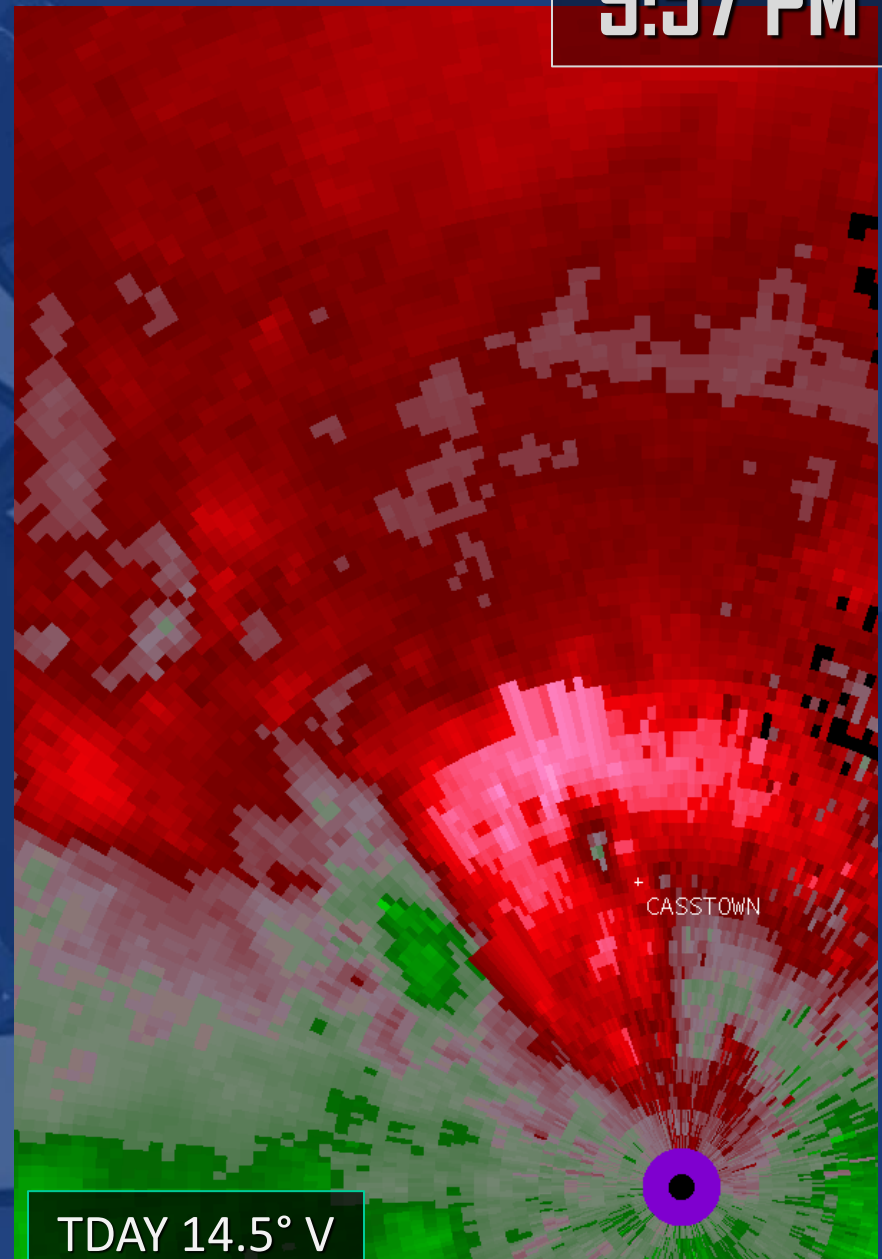
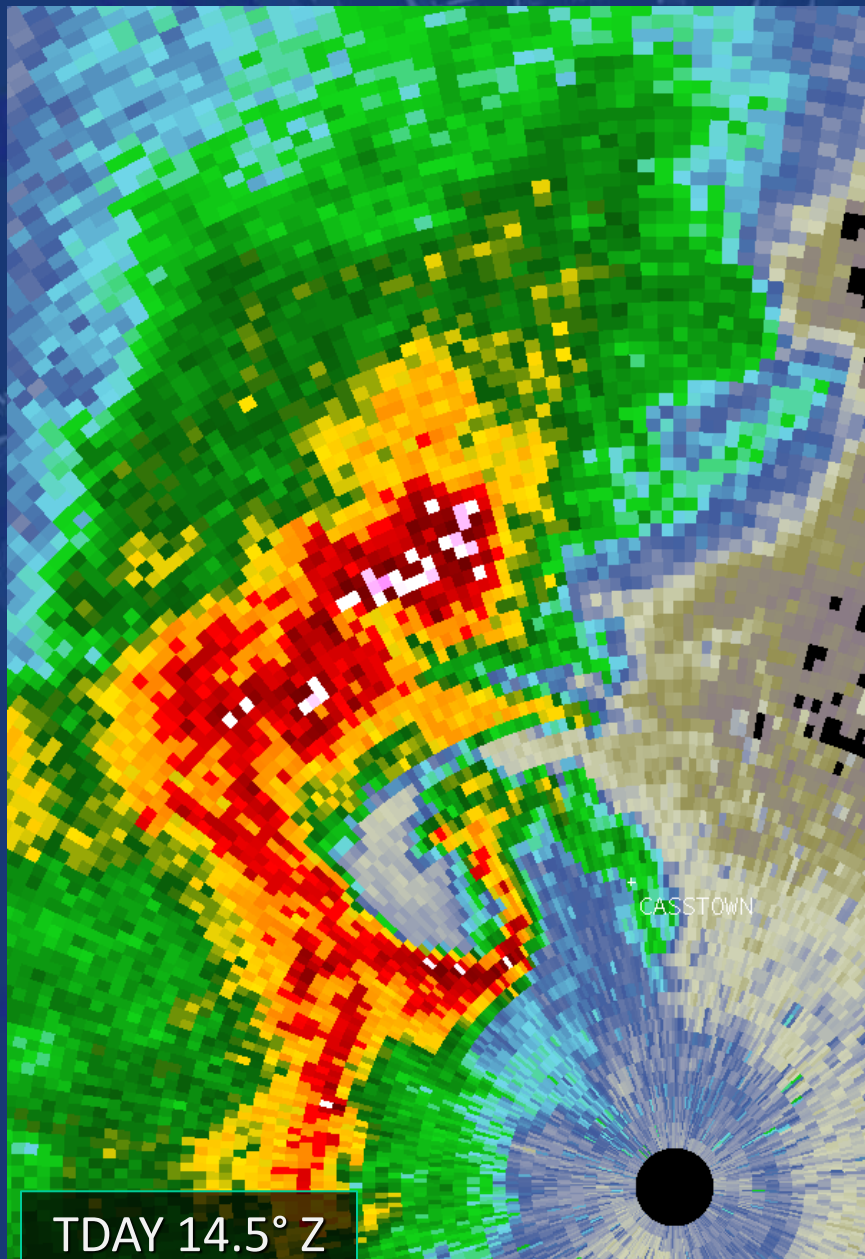
9:57 PM



#6: Casstown

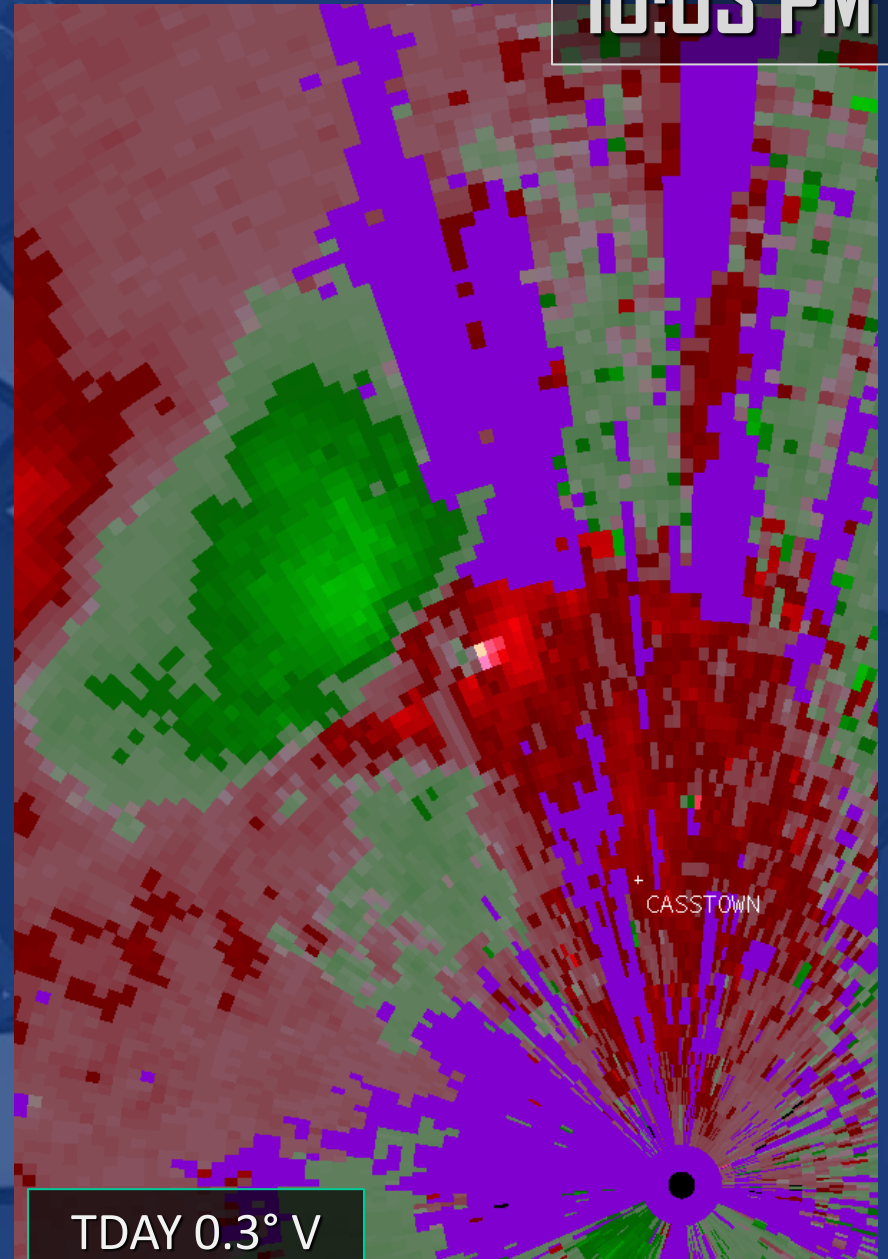
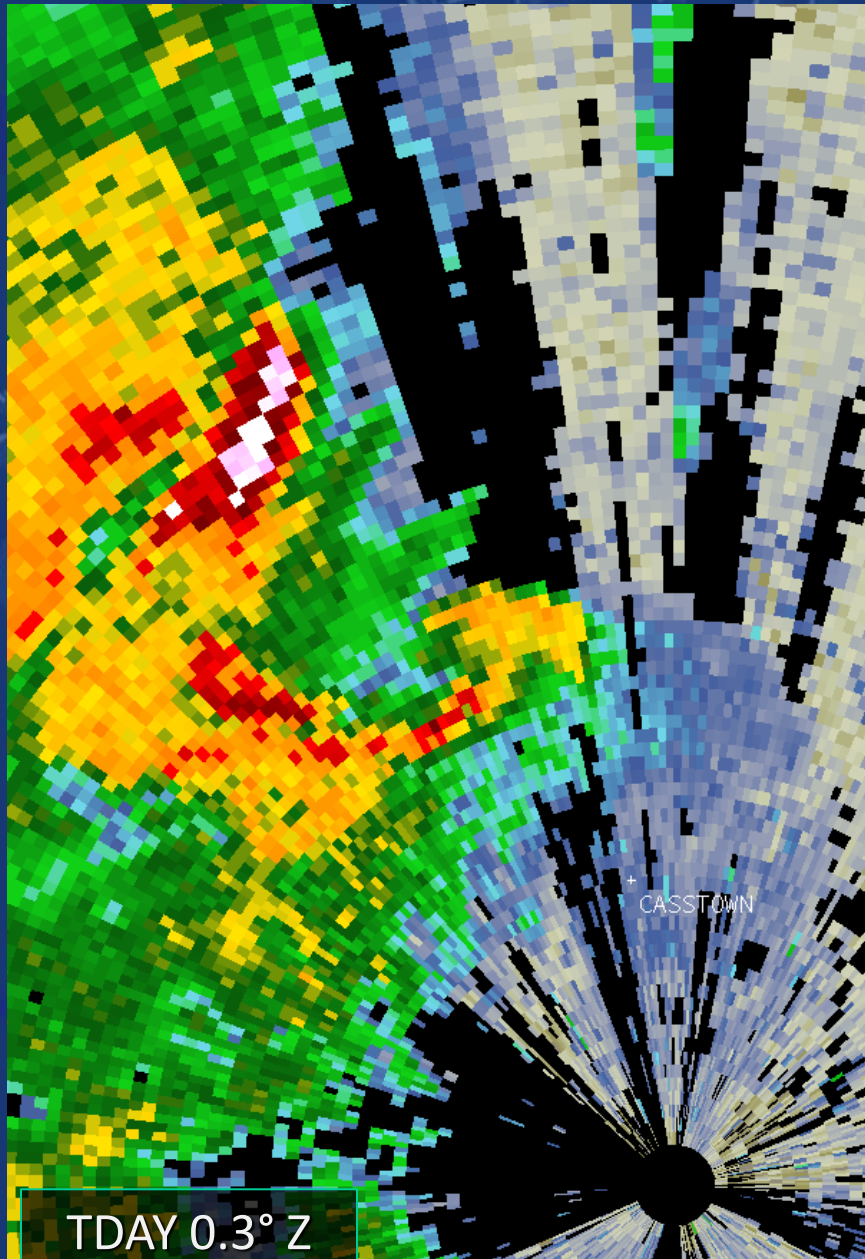
May 24, 2017

9:57 PM



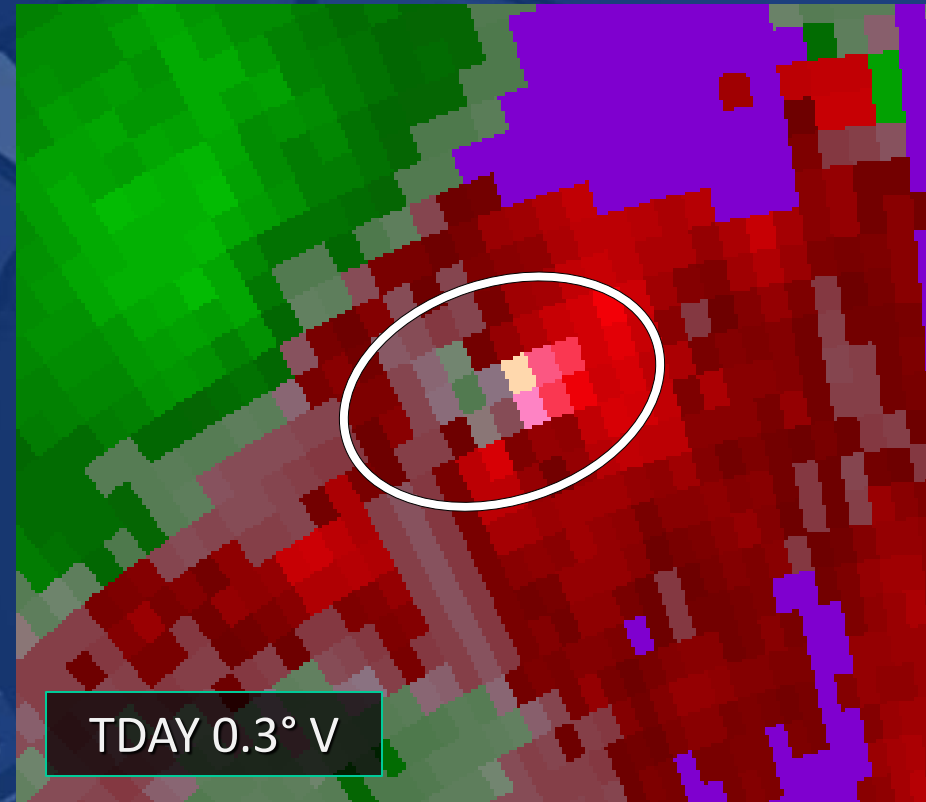
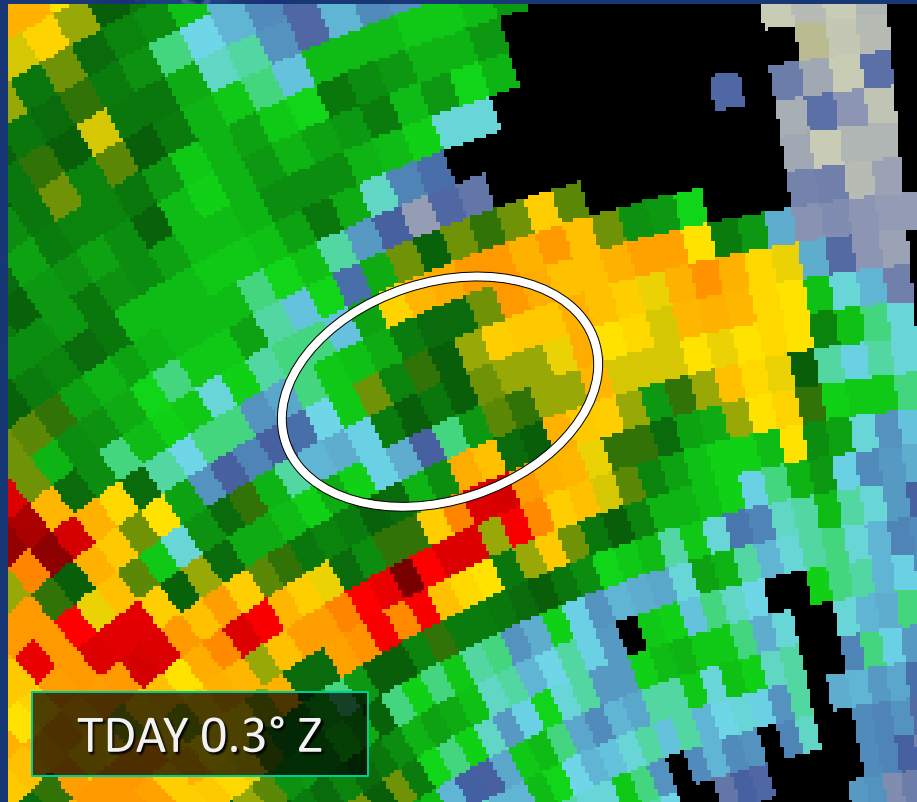
#6: Casstown

May 24, 2017
10:03 PM



#6: Casstown

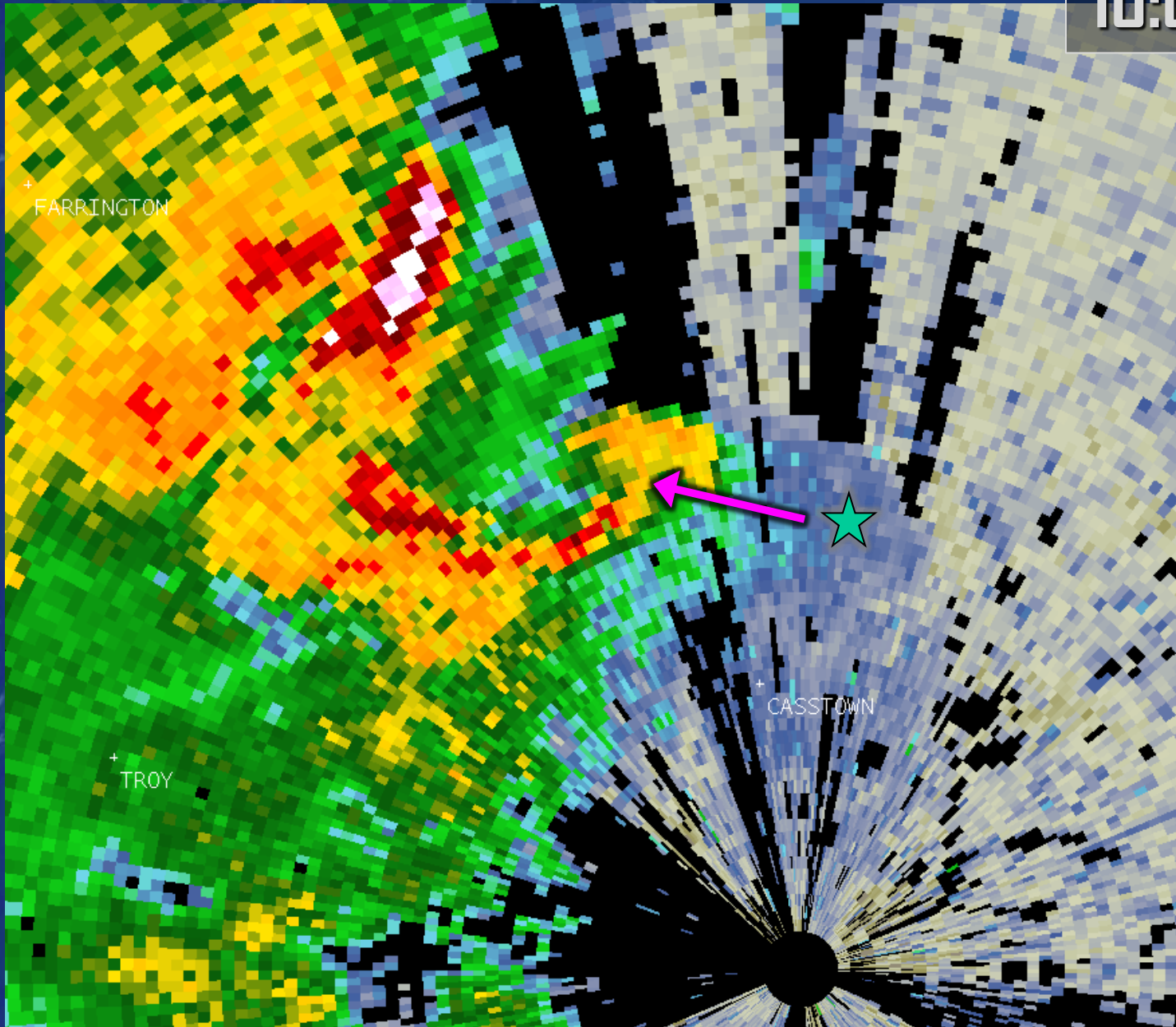
May 24, 2017
10:03 PM



#6: Casstown

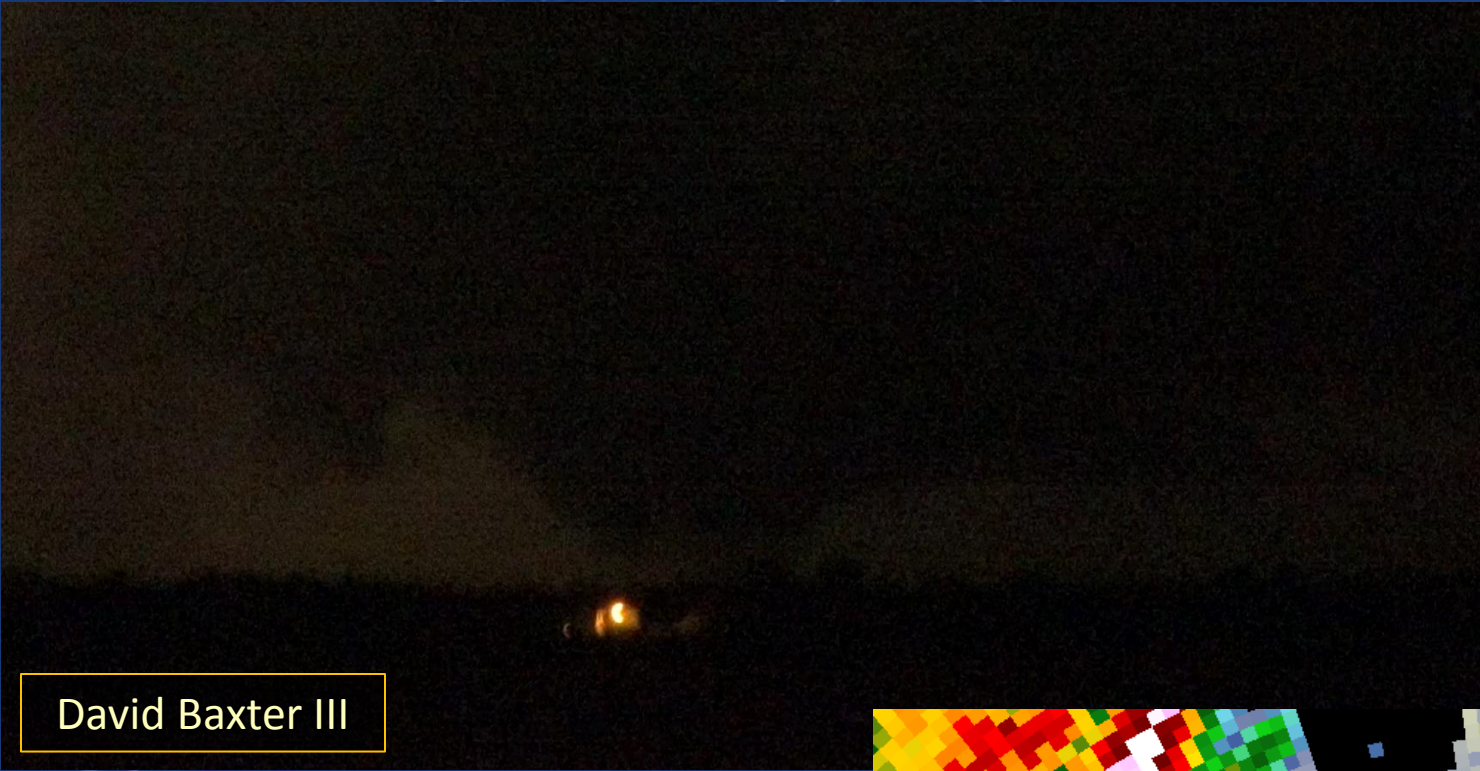
May 24, 2017

10:03 PM

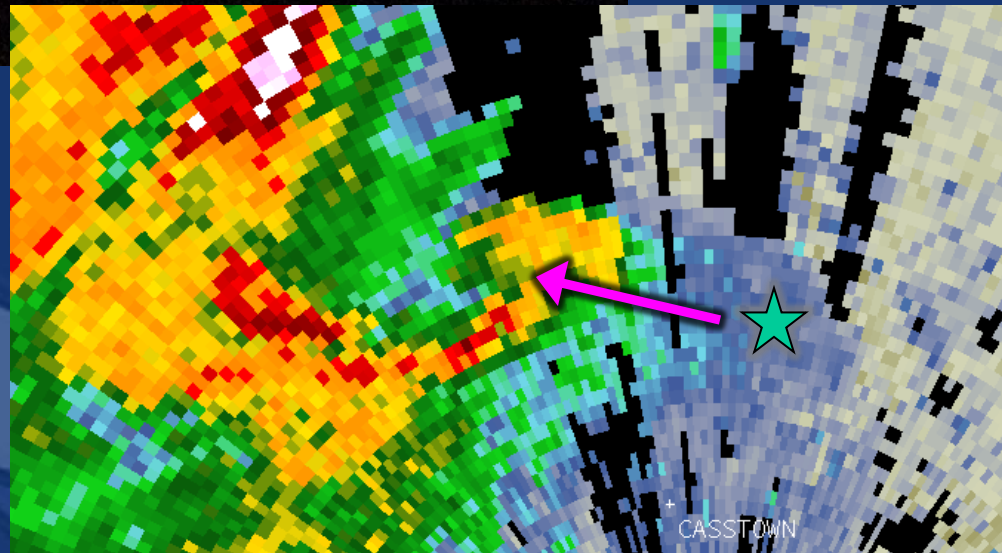


#6: Casstown

May 24, 2017
10:03 PM

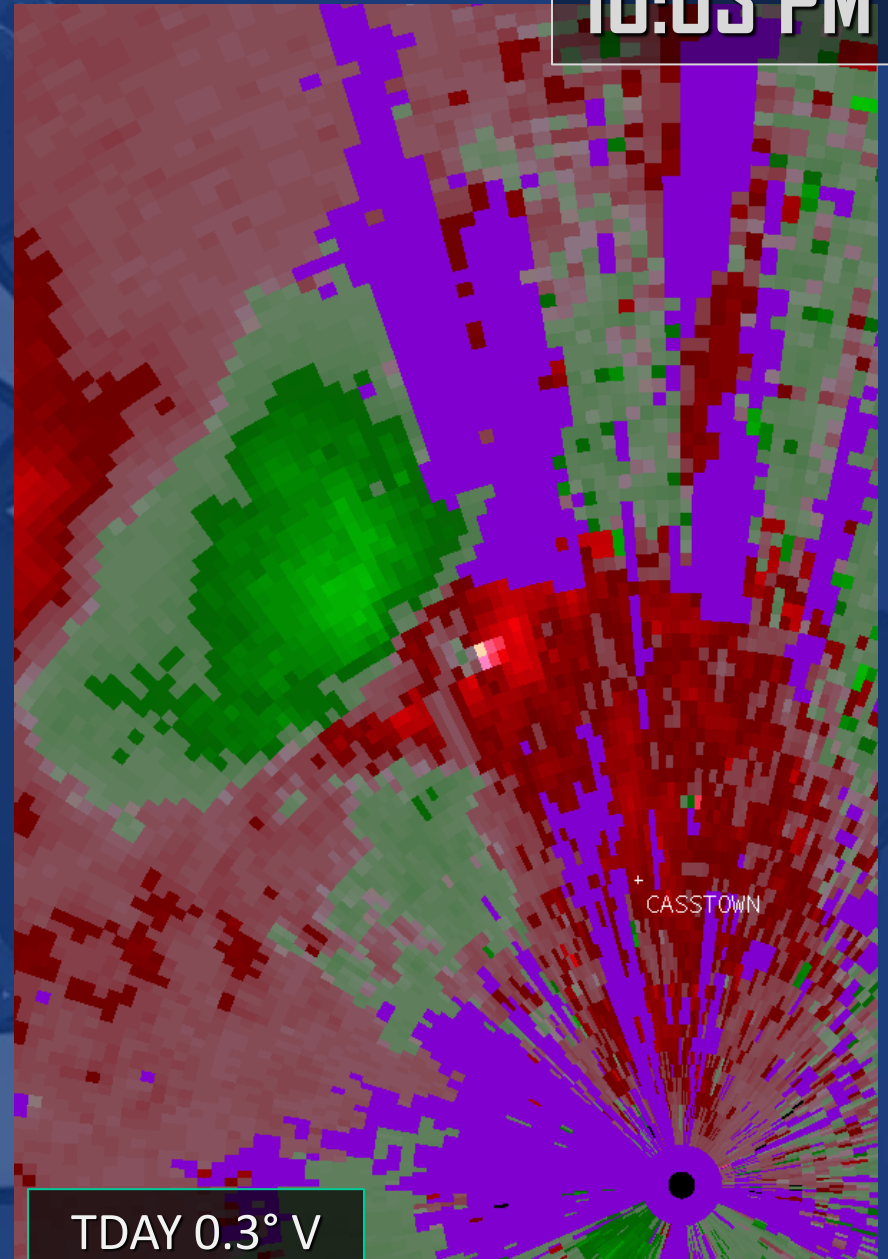
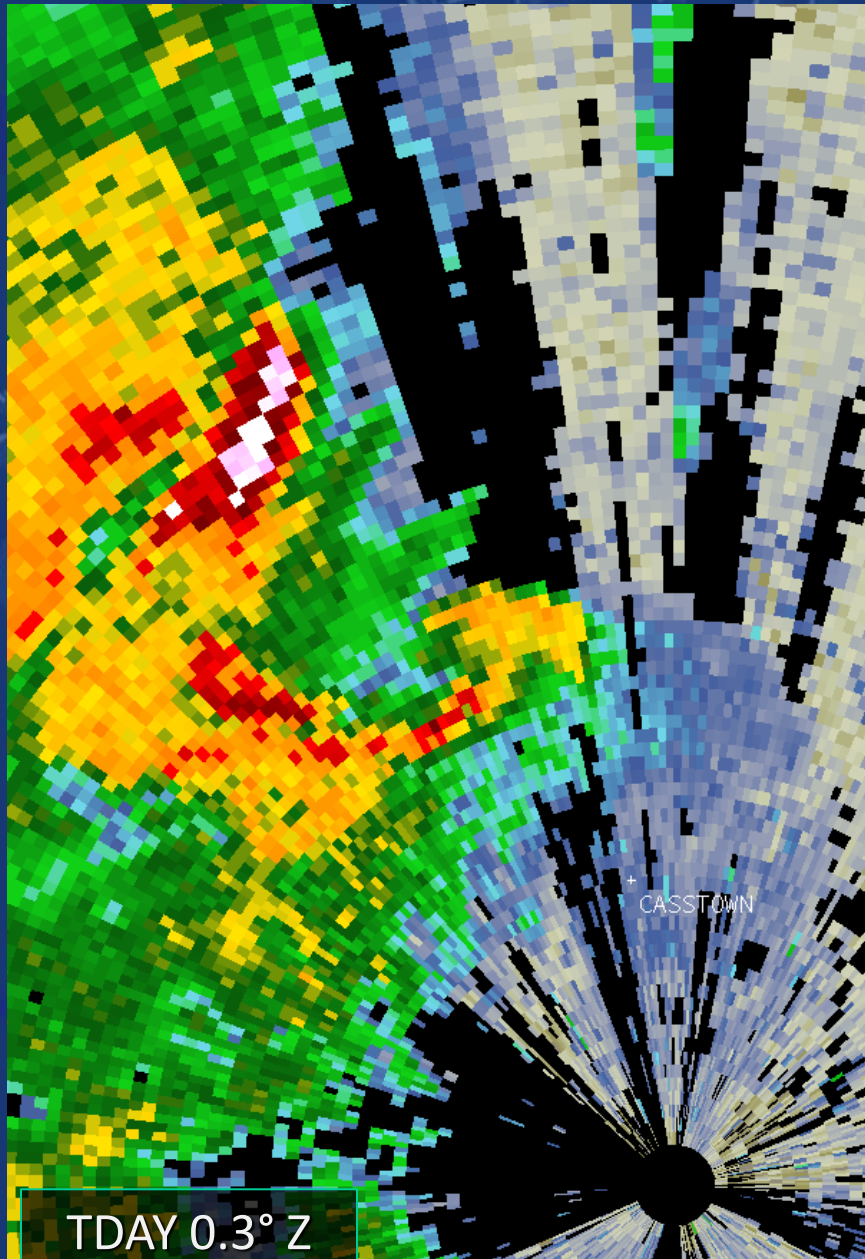


David Baxter III



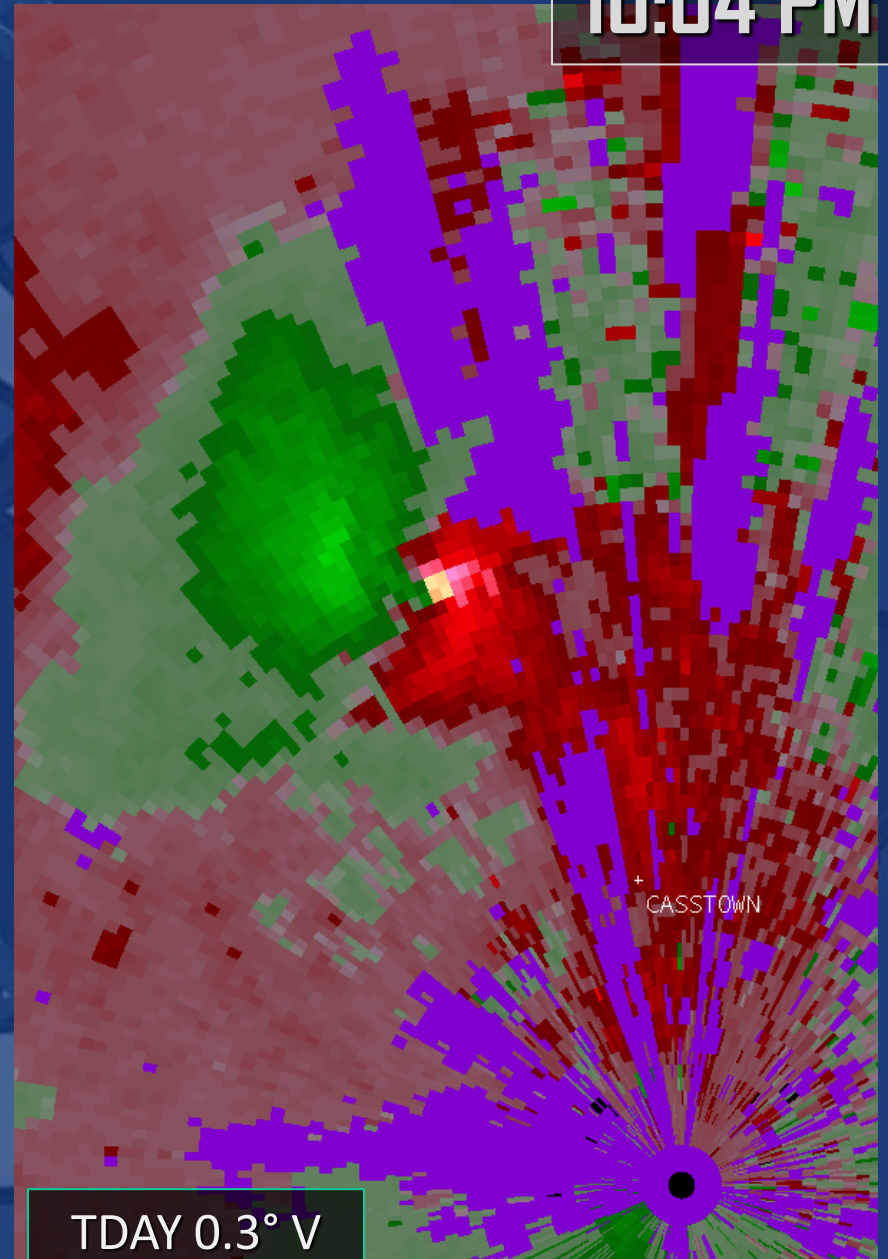
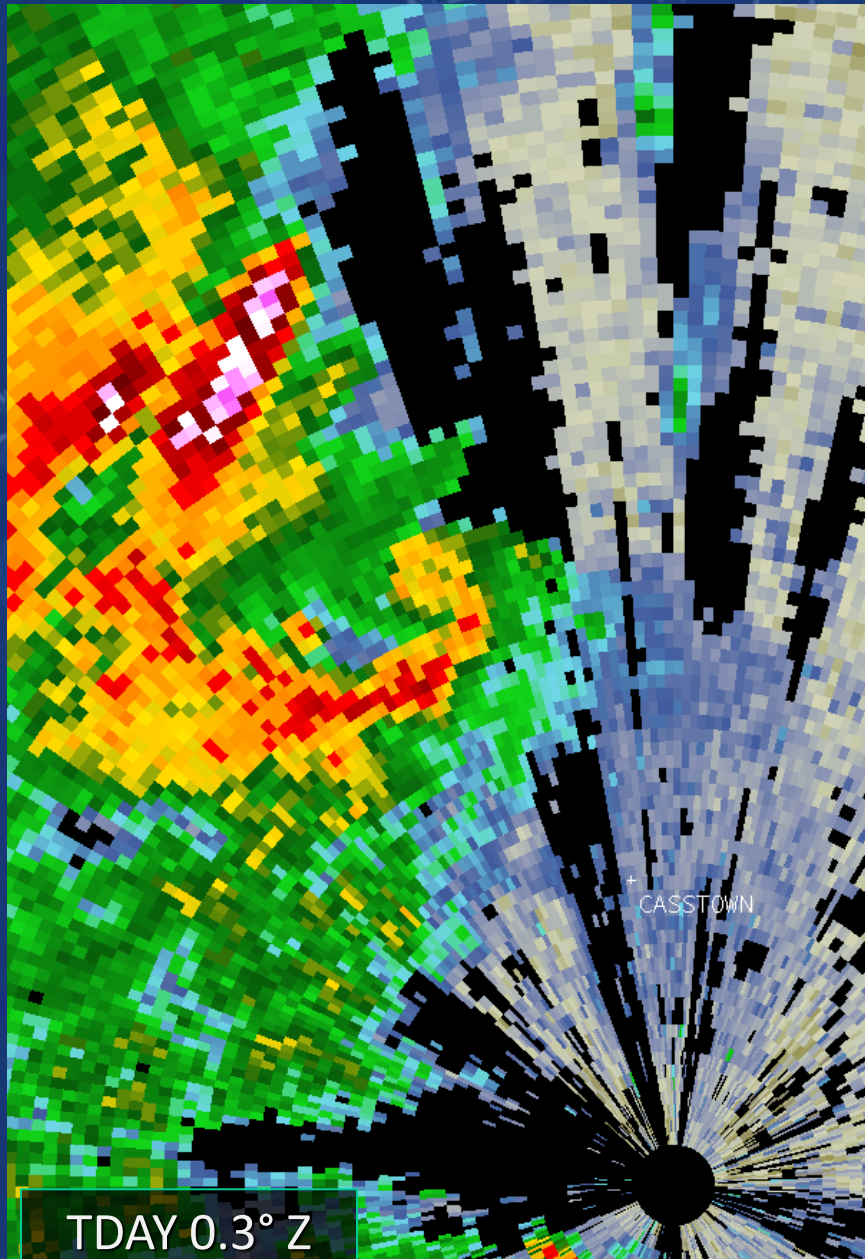
#6: Casstown

May 24, 2017
10:03 PM



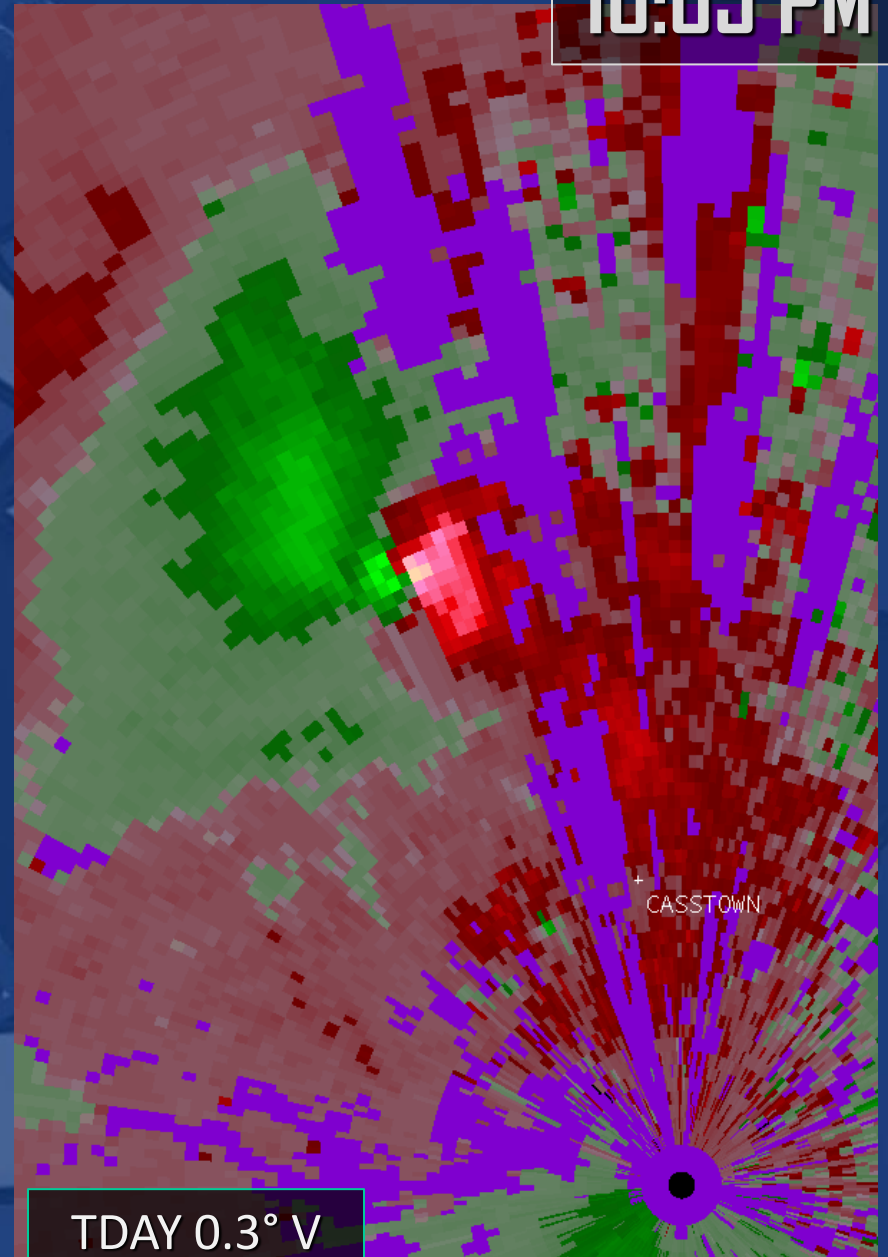
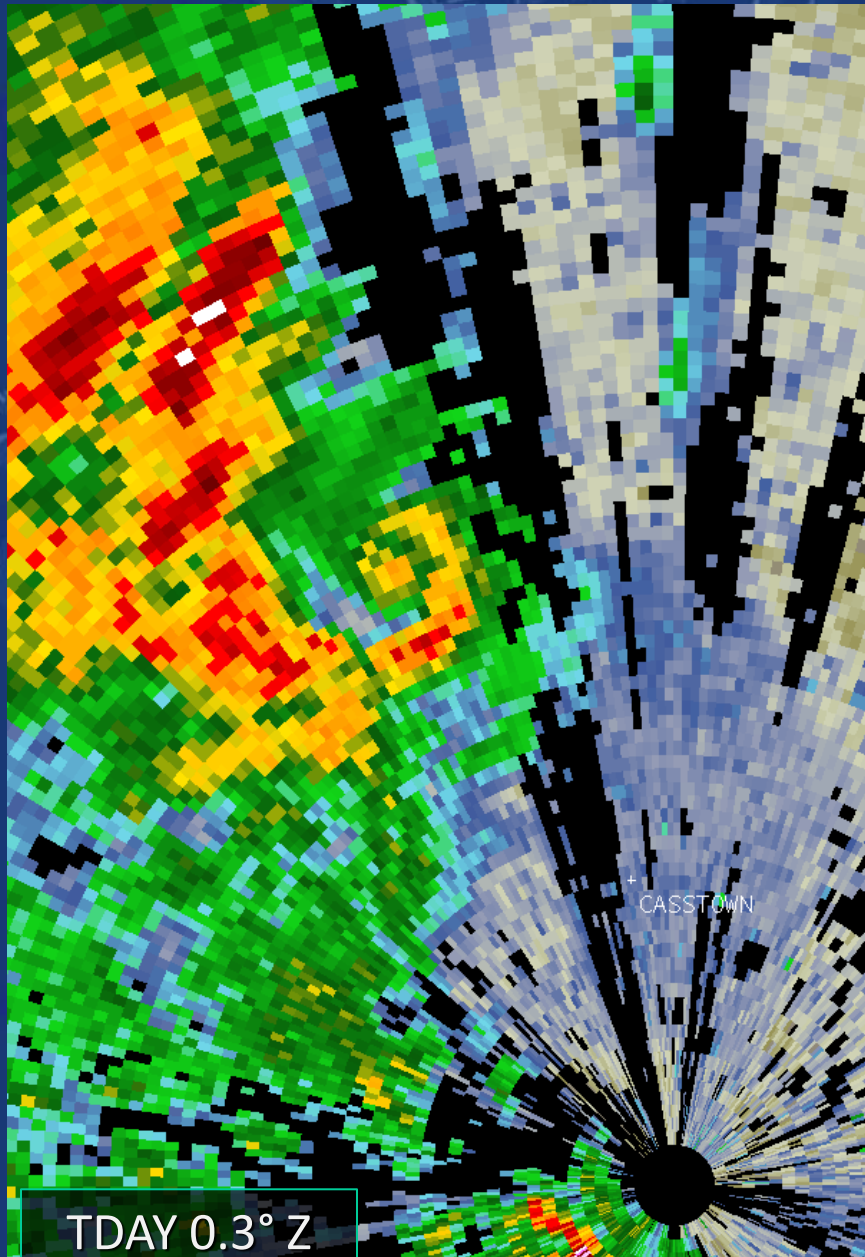
#6: Casstown

May 24, 2017
10:04 PM



#6: Casstown

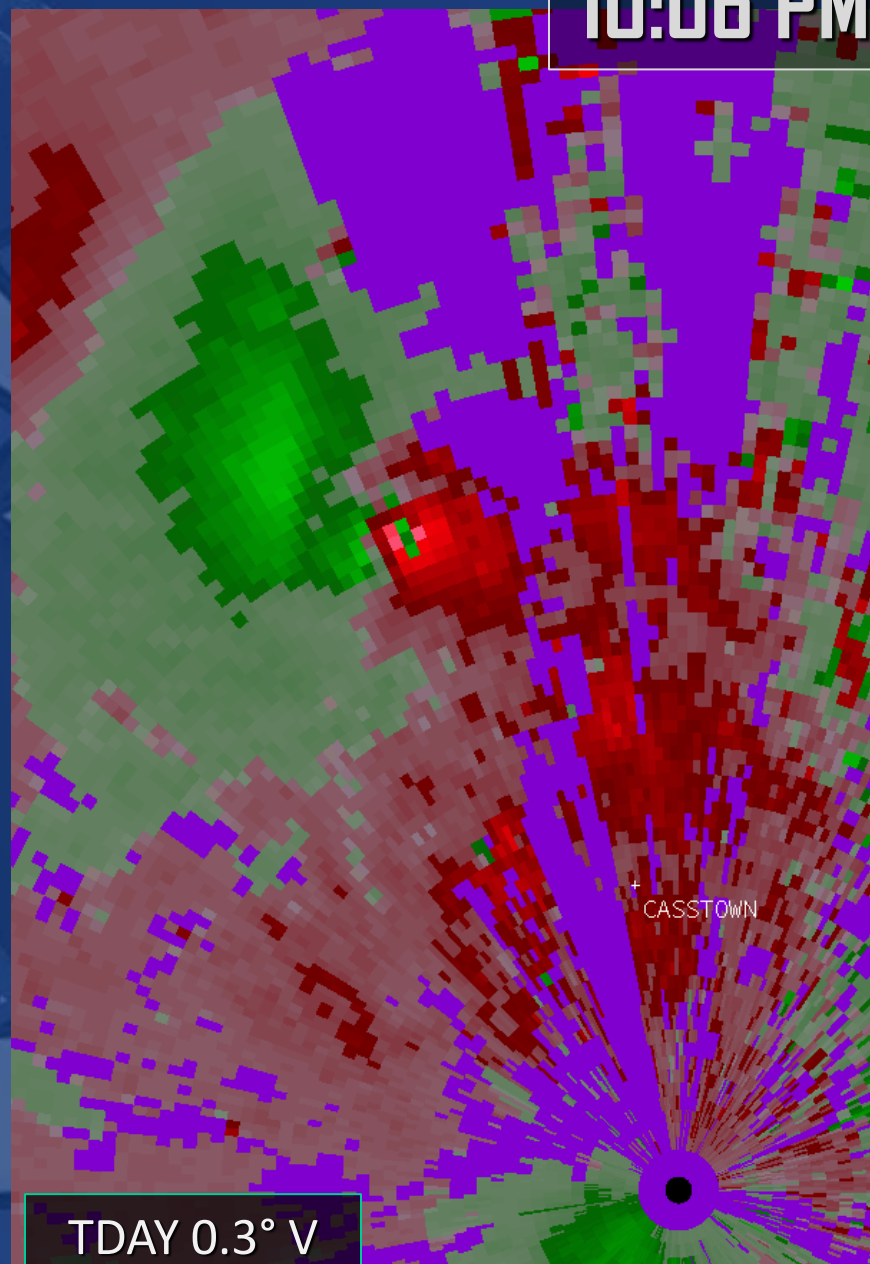
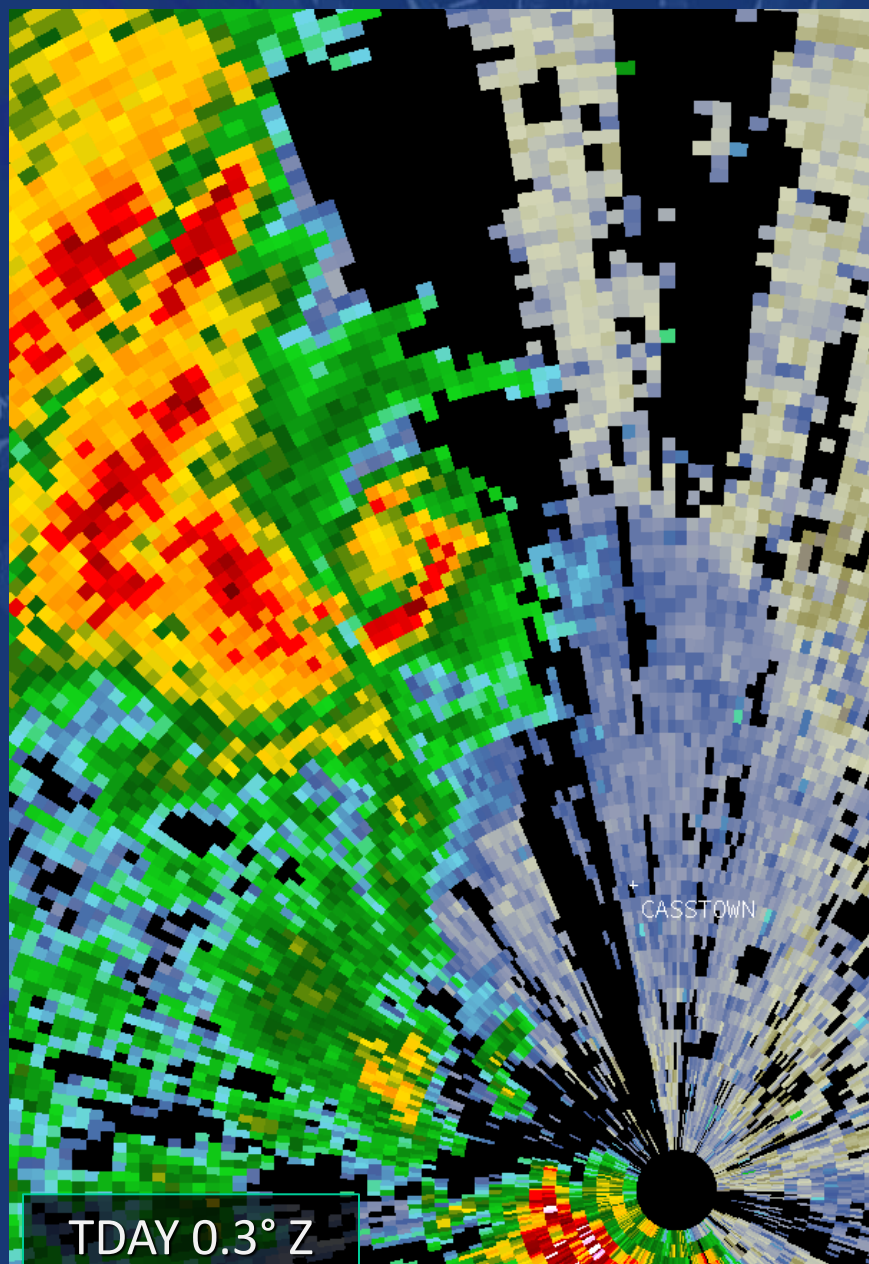
May 24, 2017
10:05 PM



#6: Casstown

May 24, 2017

10:06 PM



#6: Casstown

May 24, 2017
10:07 PM

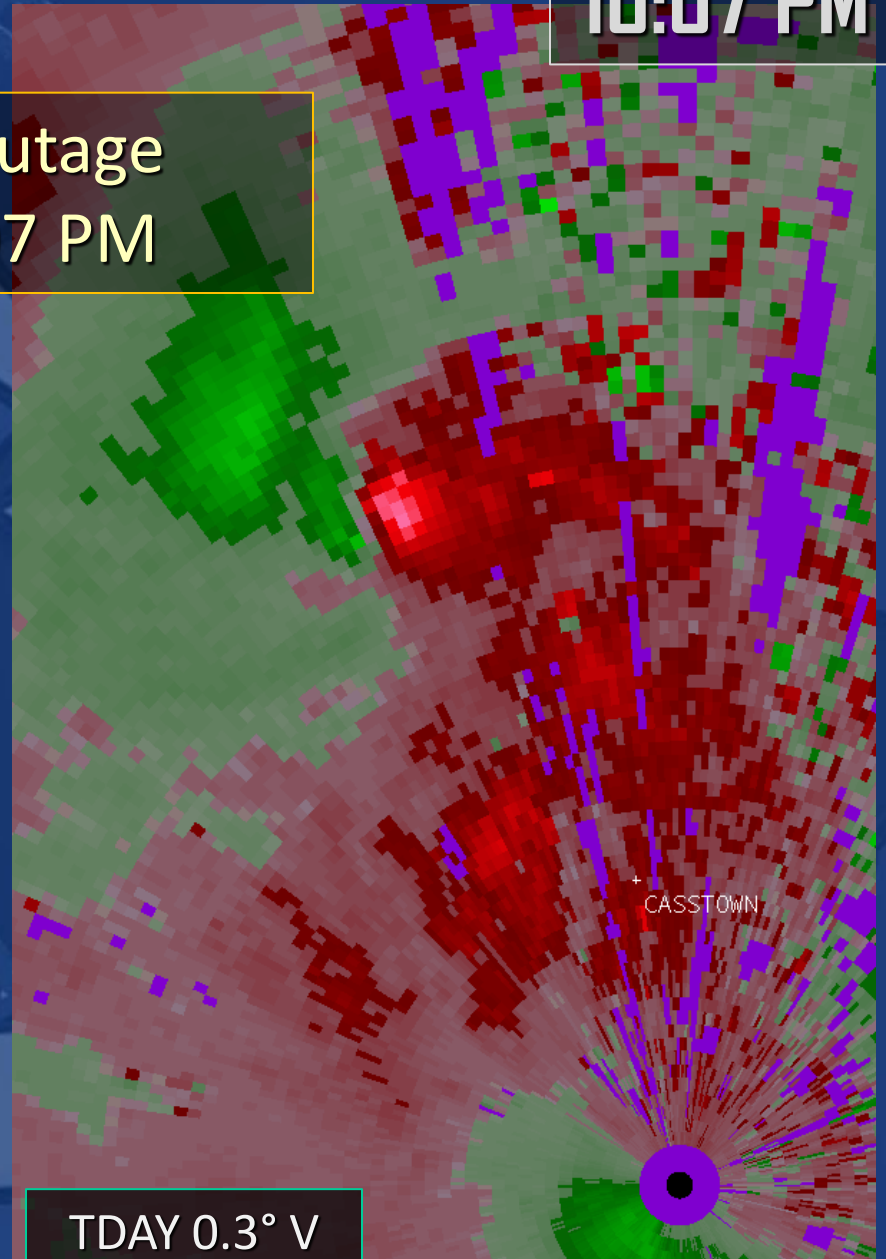
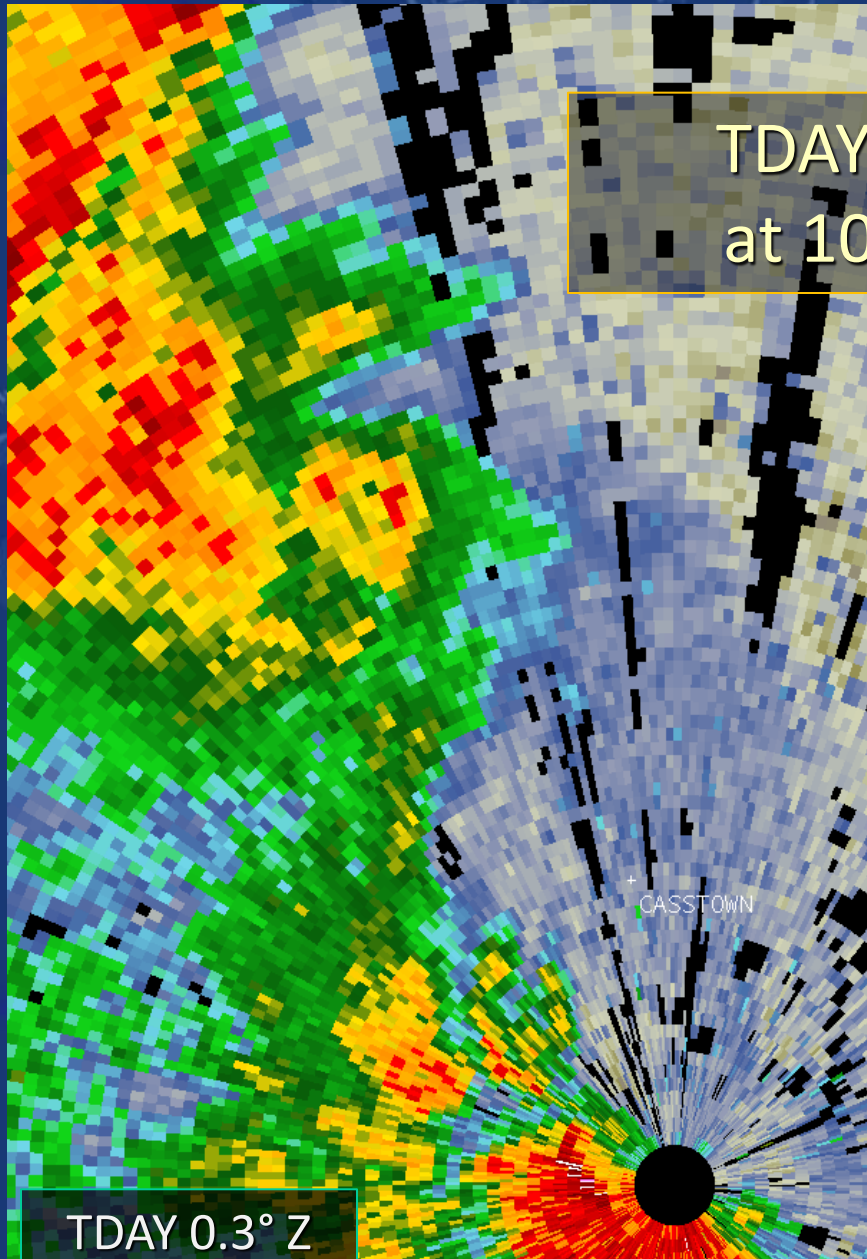
TDAY outage
at 10:07 PM

+ CASSTOWN

TDAY 0.3° Z

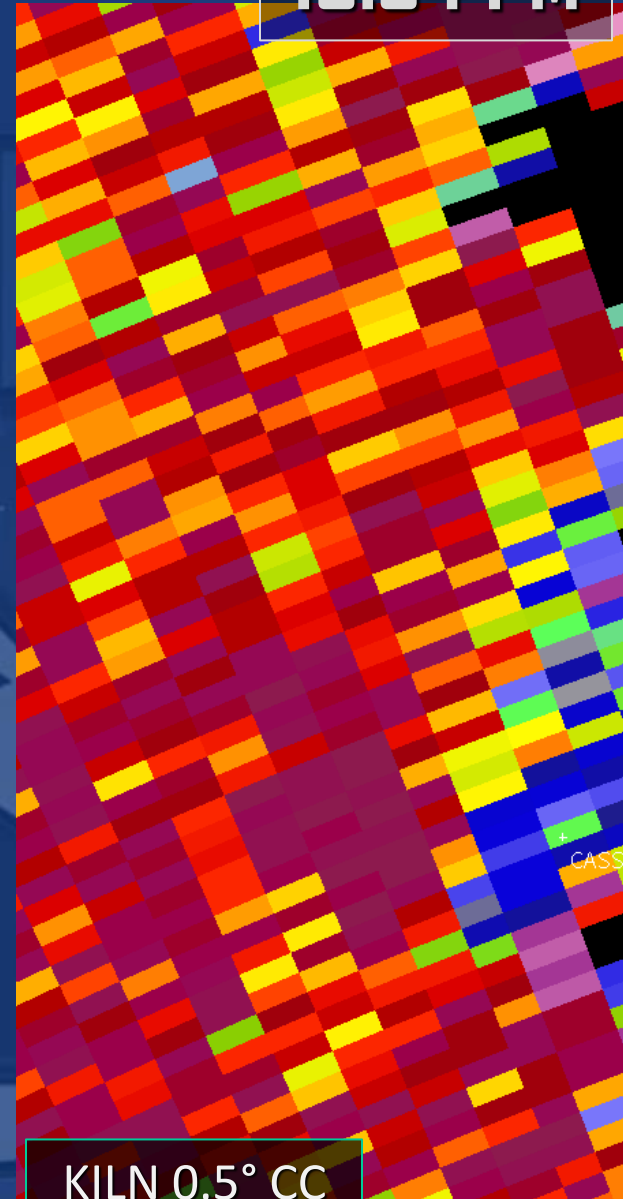
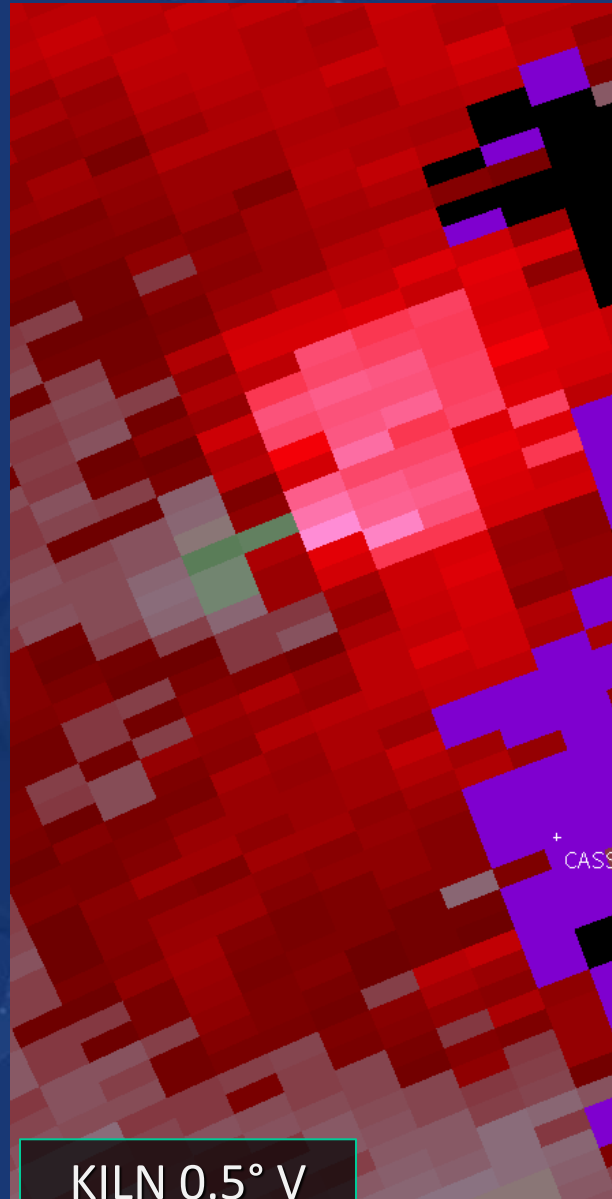
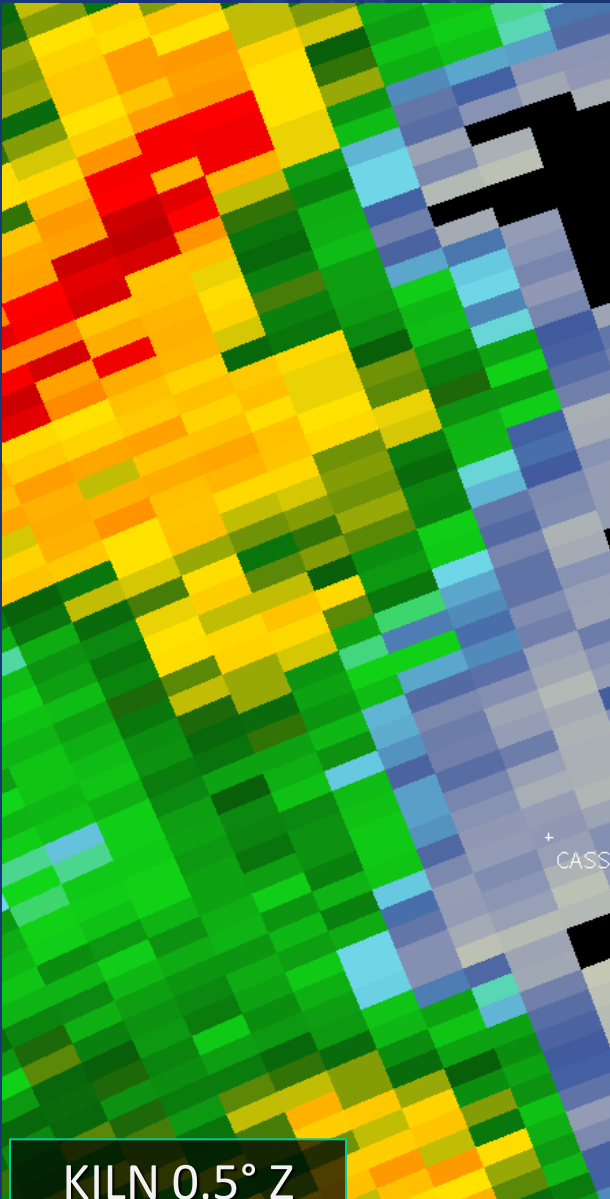
+ CASSTOWN

TDAY 0.3° V



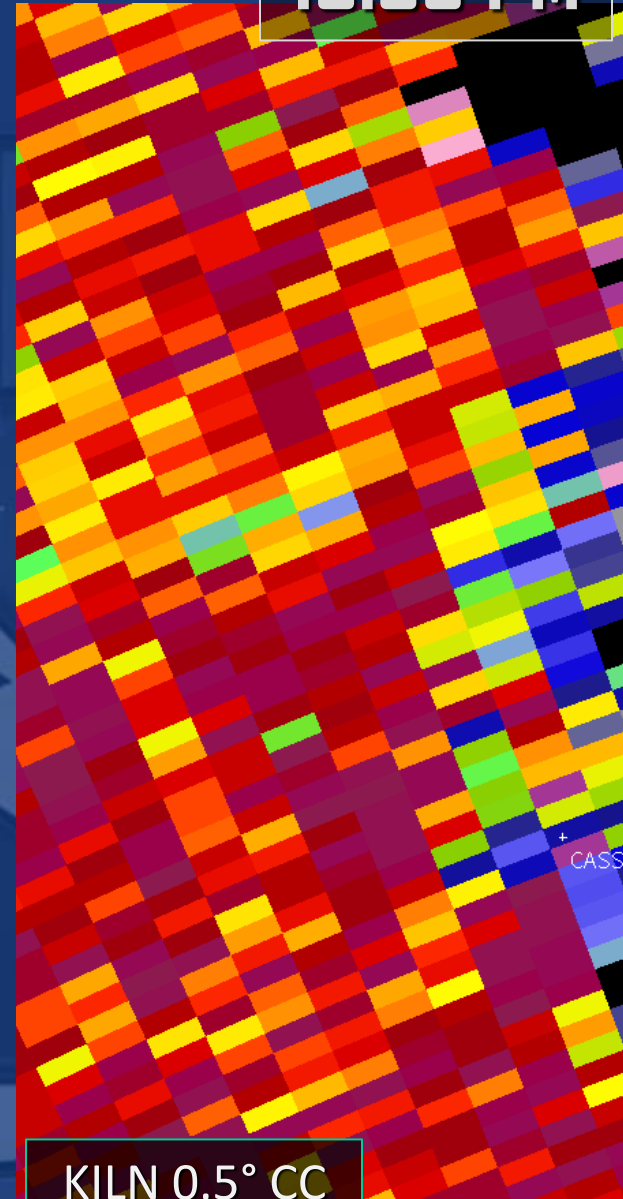
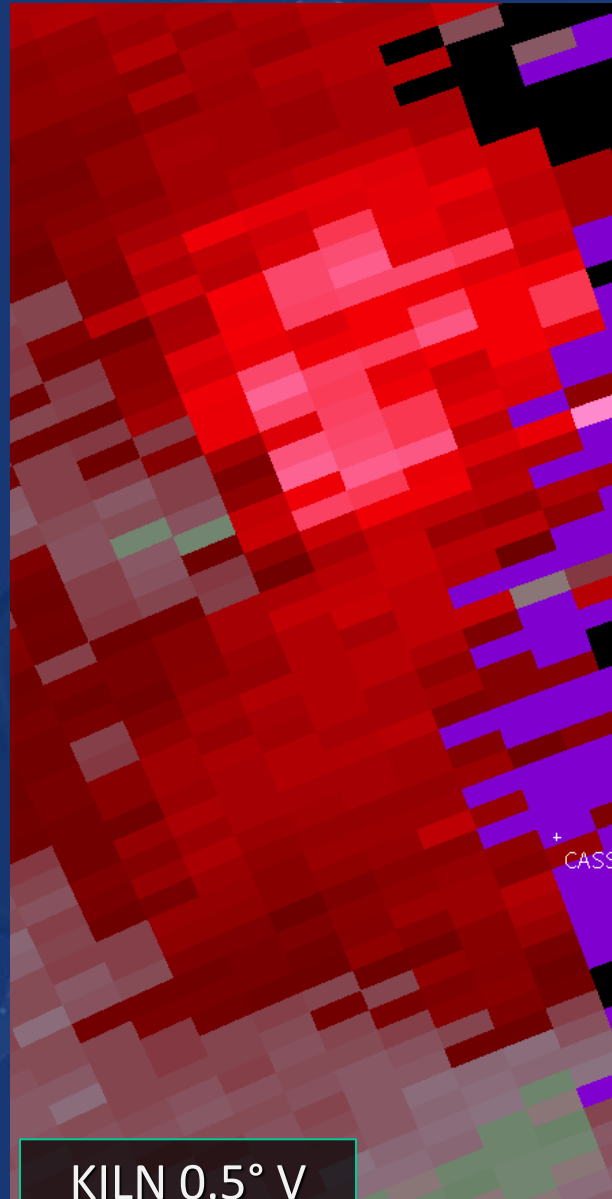
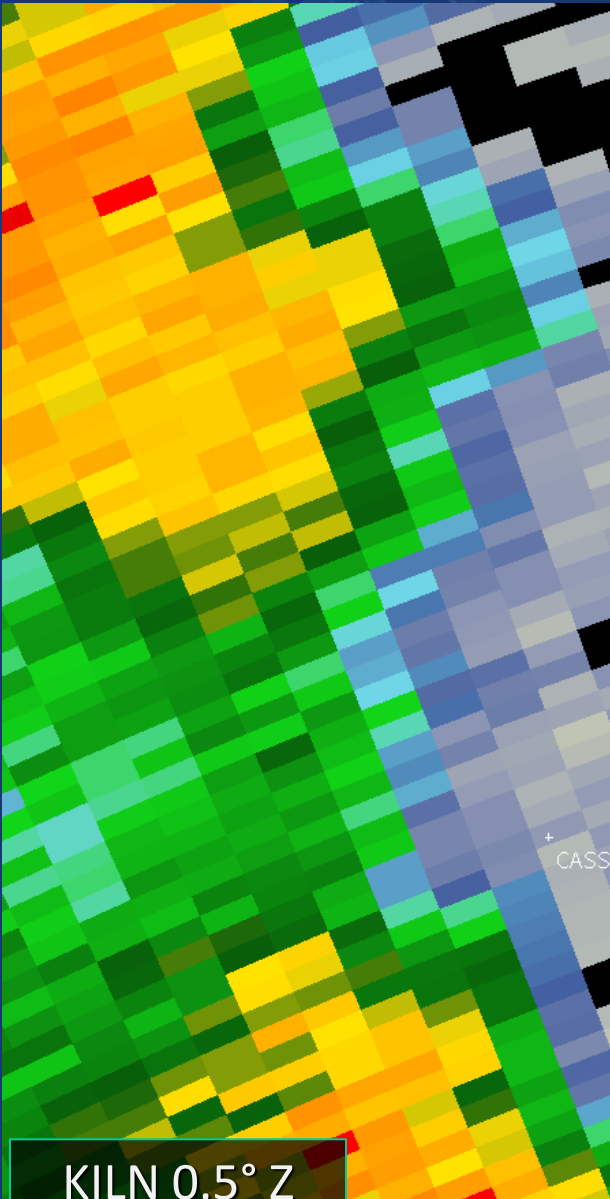
#6: Casstown

May 24, 2017
10:04 PM



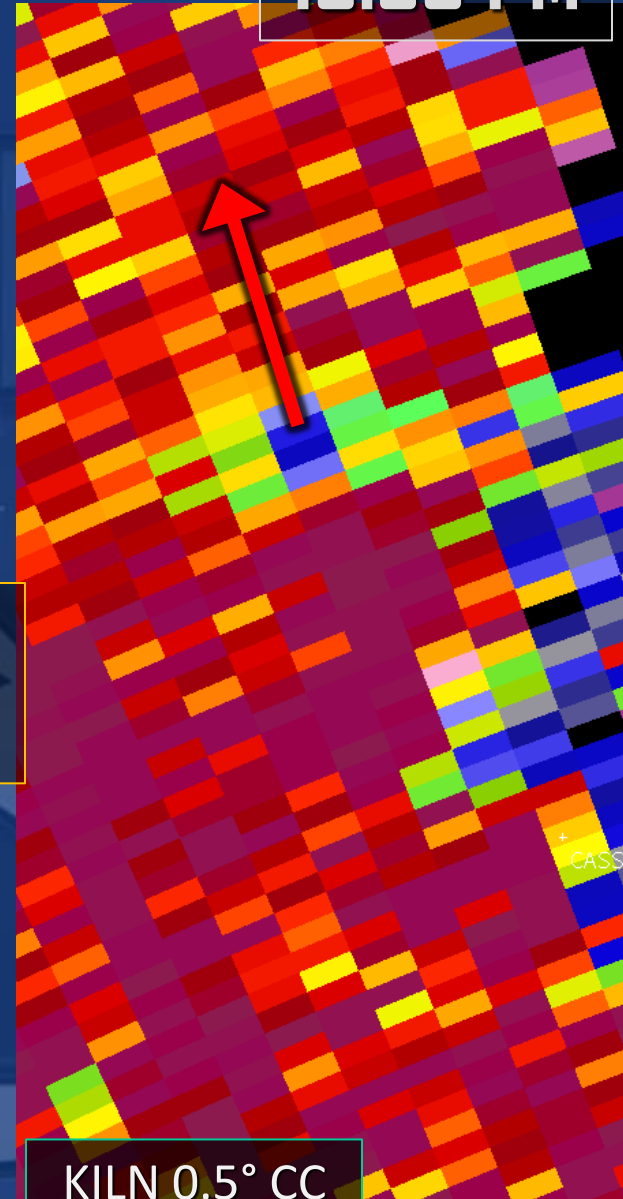
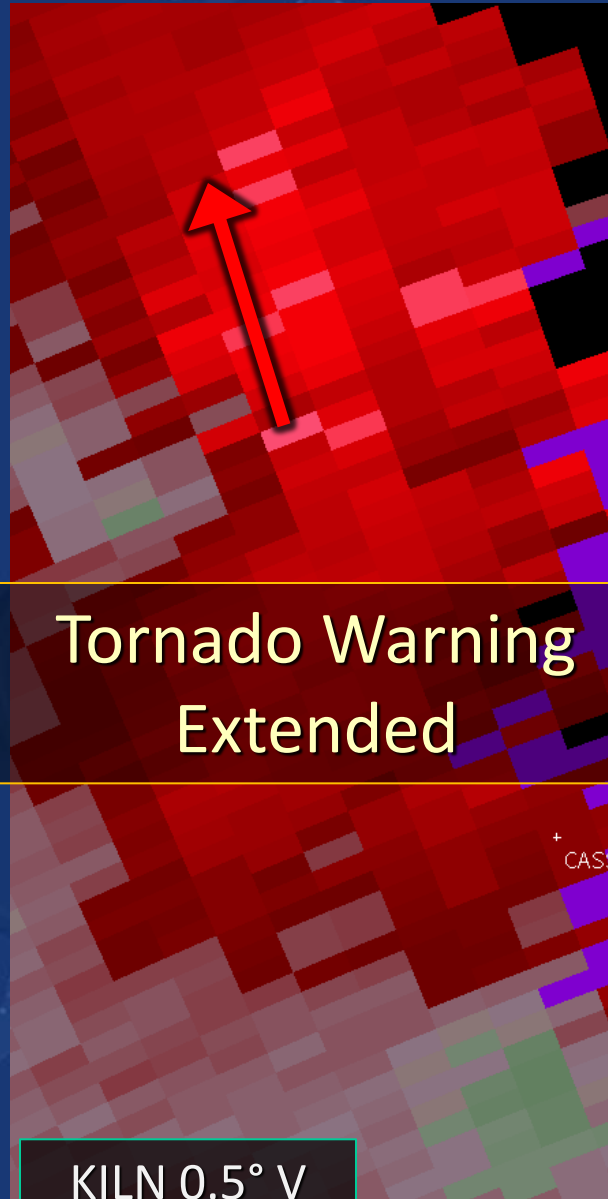
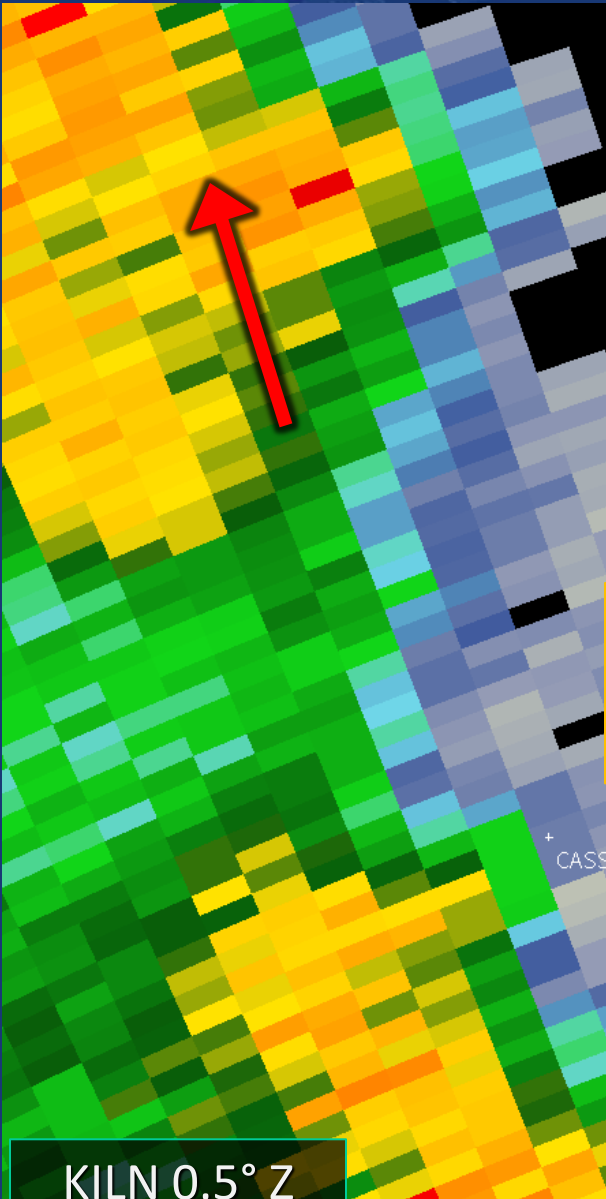
#6: Casstown

May 24, 2017
10:06 PM



#6: Casstown

May 24, 2017
10:08 PM



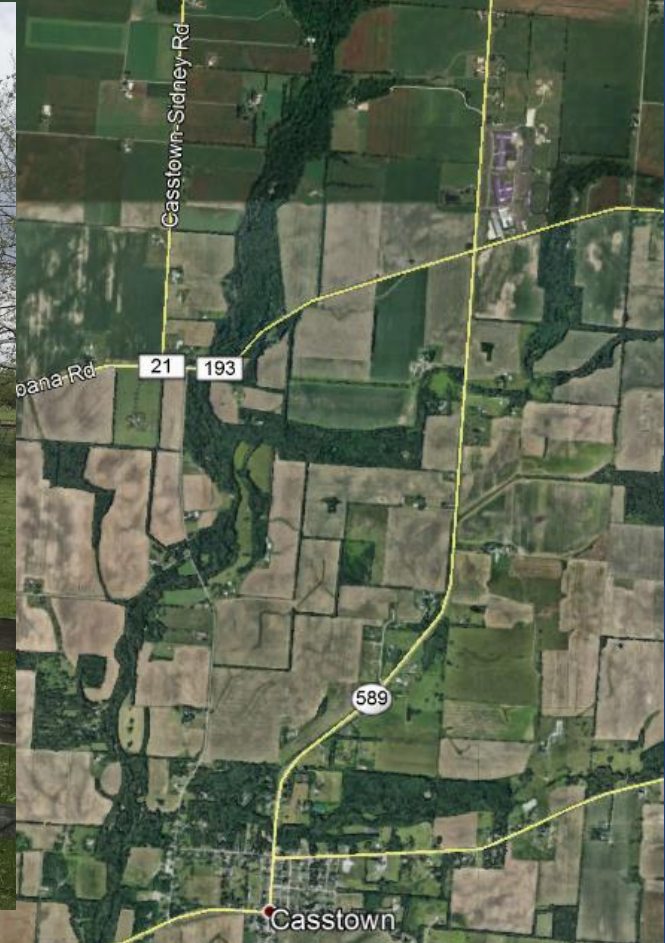
Tornado Warning
Extended

#6: Casstown

May 24, 2017
10:10 PM

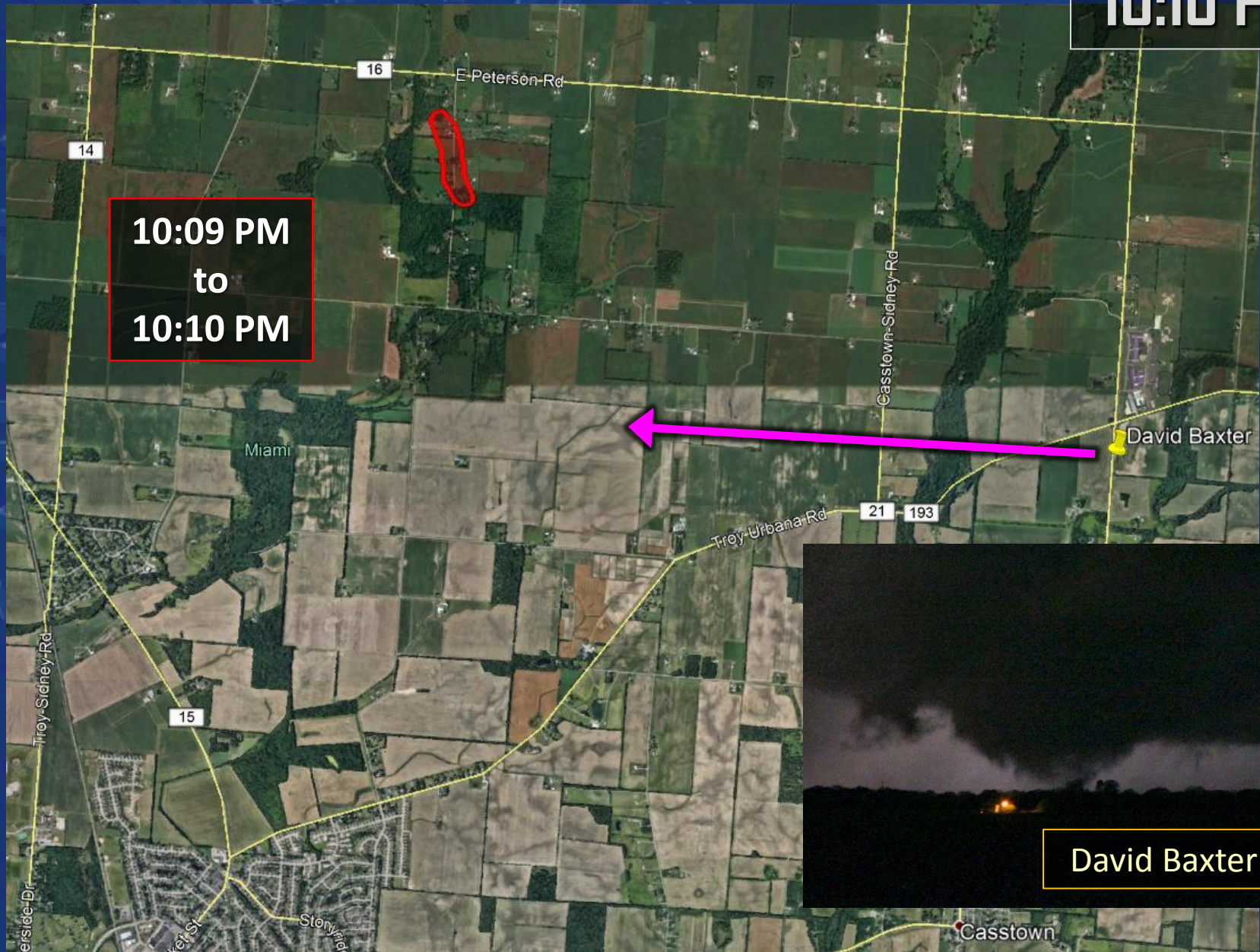


NWS Wilmington OH



#6: Casstown

May 24, 2017
10:10 PM



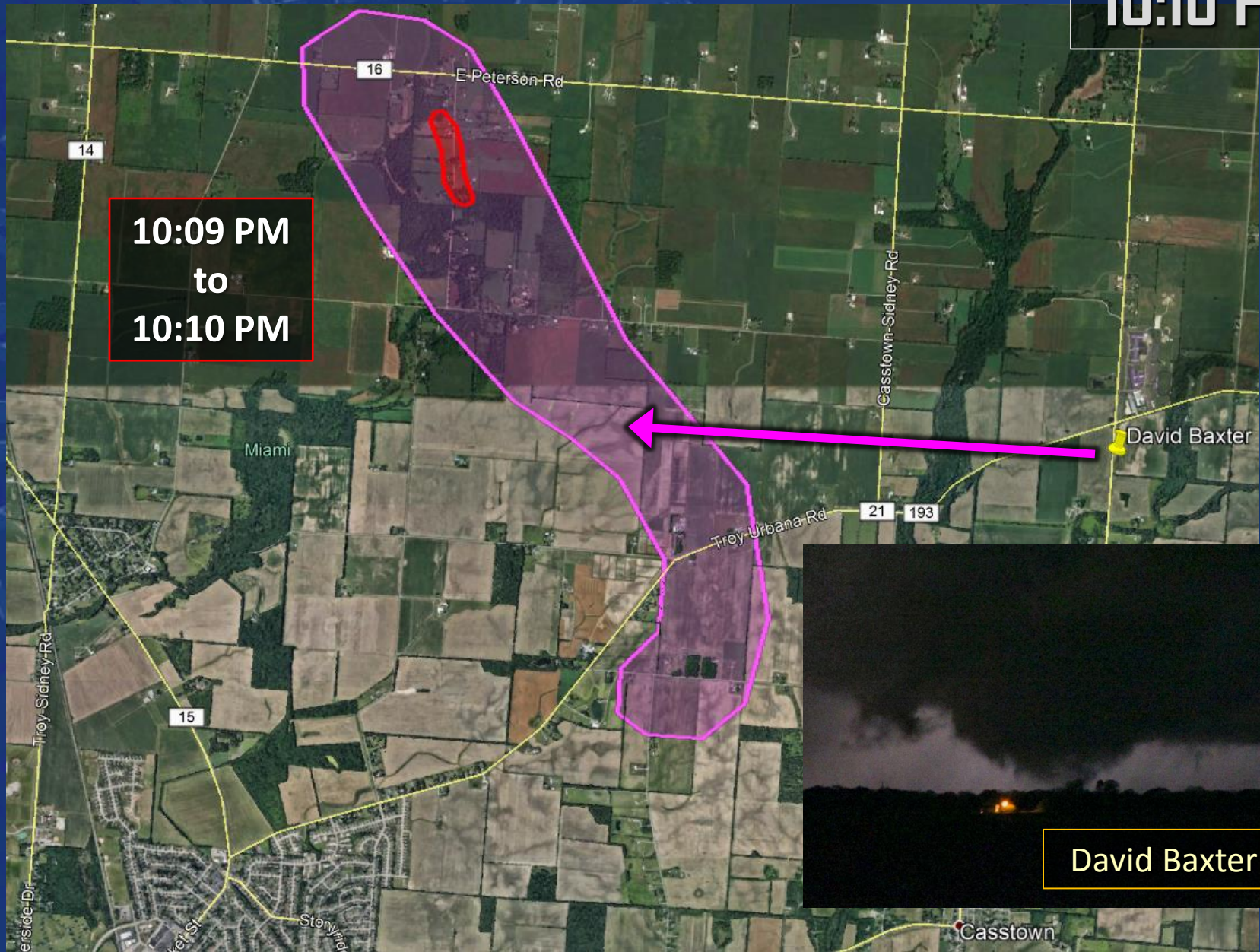
10:09 PM
to
10:10 PM

David Baxter

David Baxter III

#6: Casstown

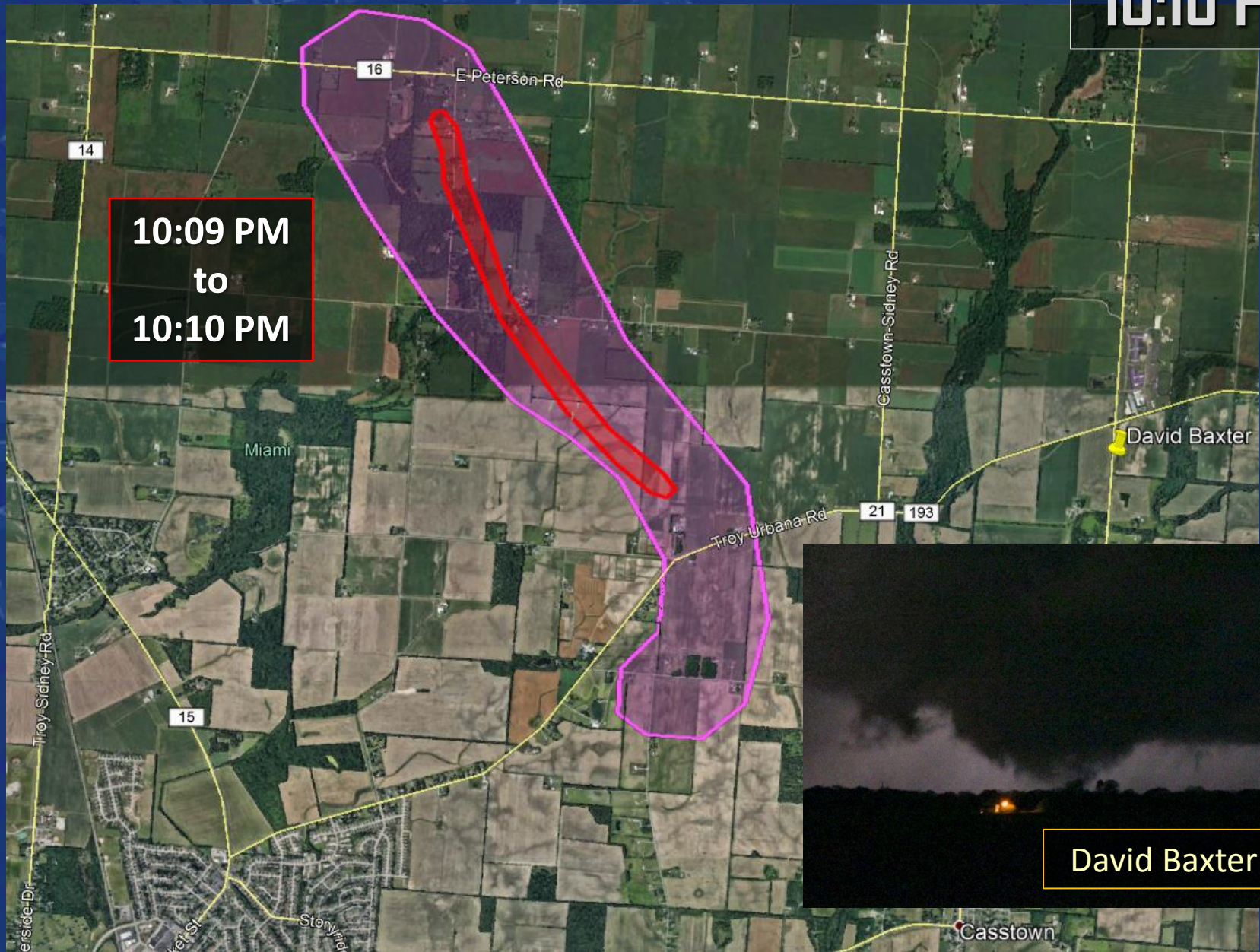
May 24, 2017
10:10 PM



#6: Casstown

May 24, 2017

10:10 PM



#6: Casstown

May 24, 2017
10:10 PM



David Baxter III

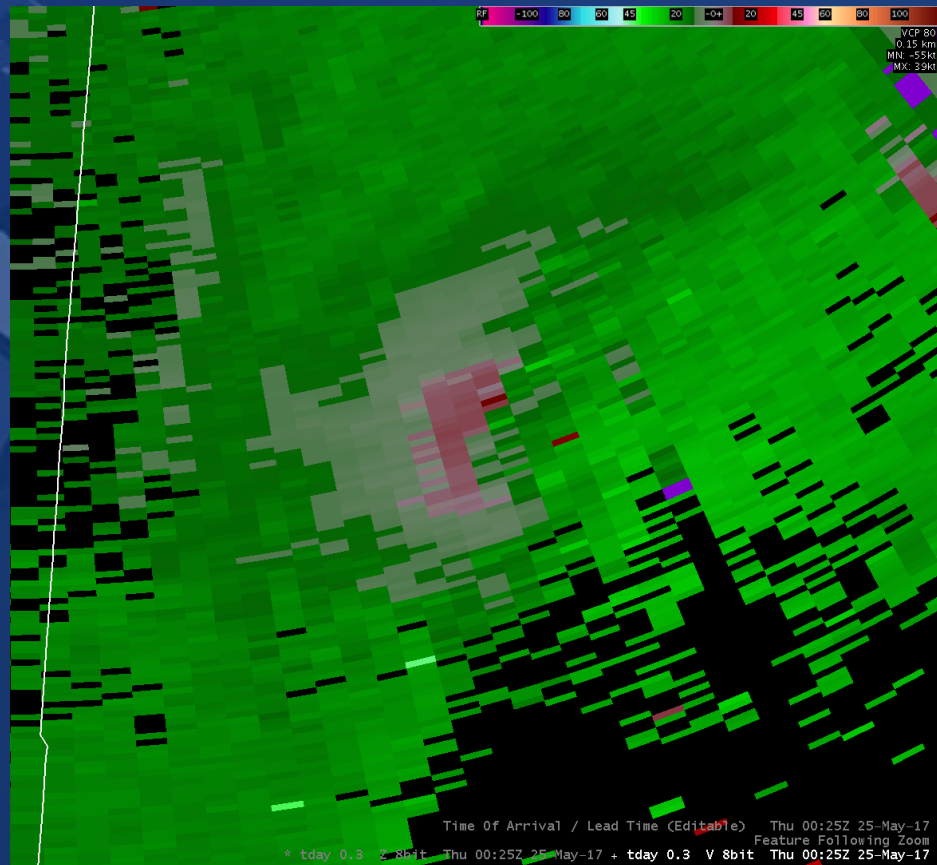
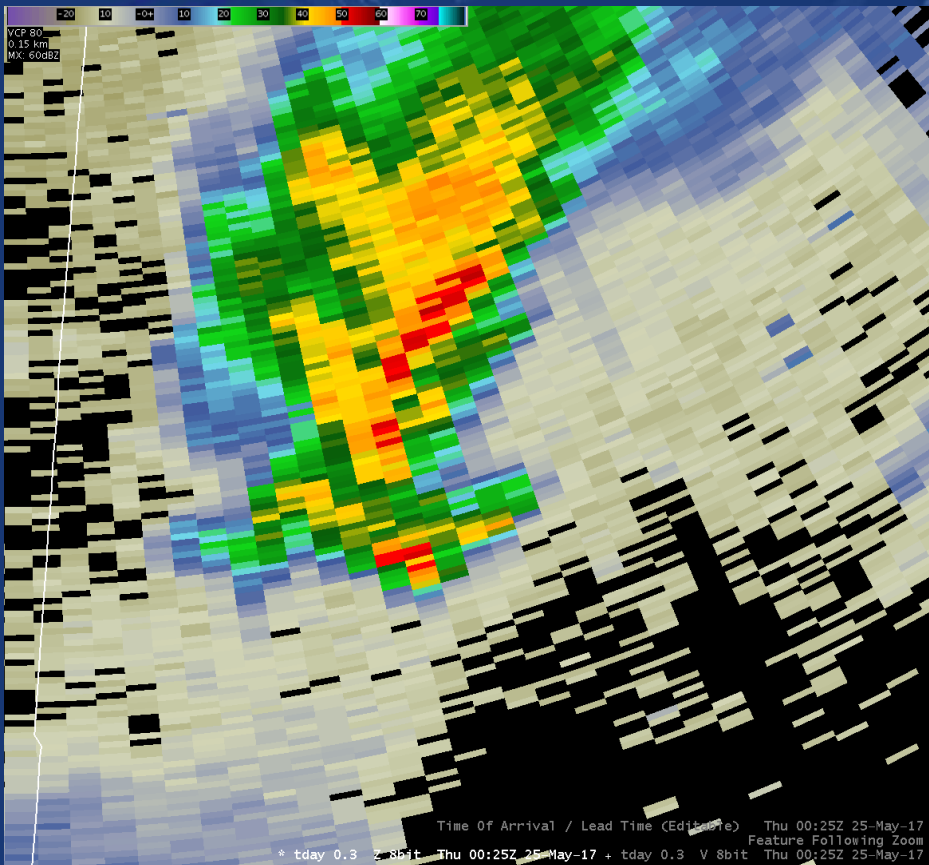
After Casstown

May 24, 2017

10:10 PM

The End!

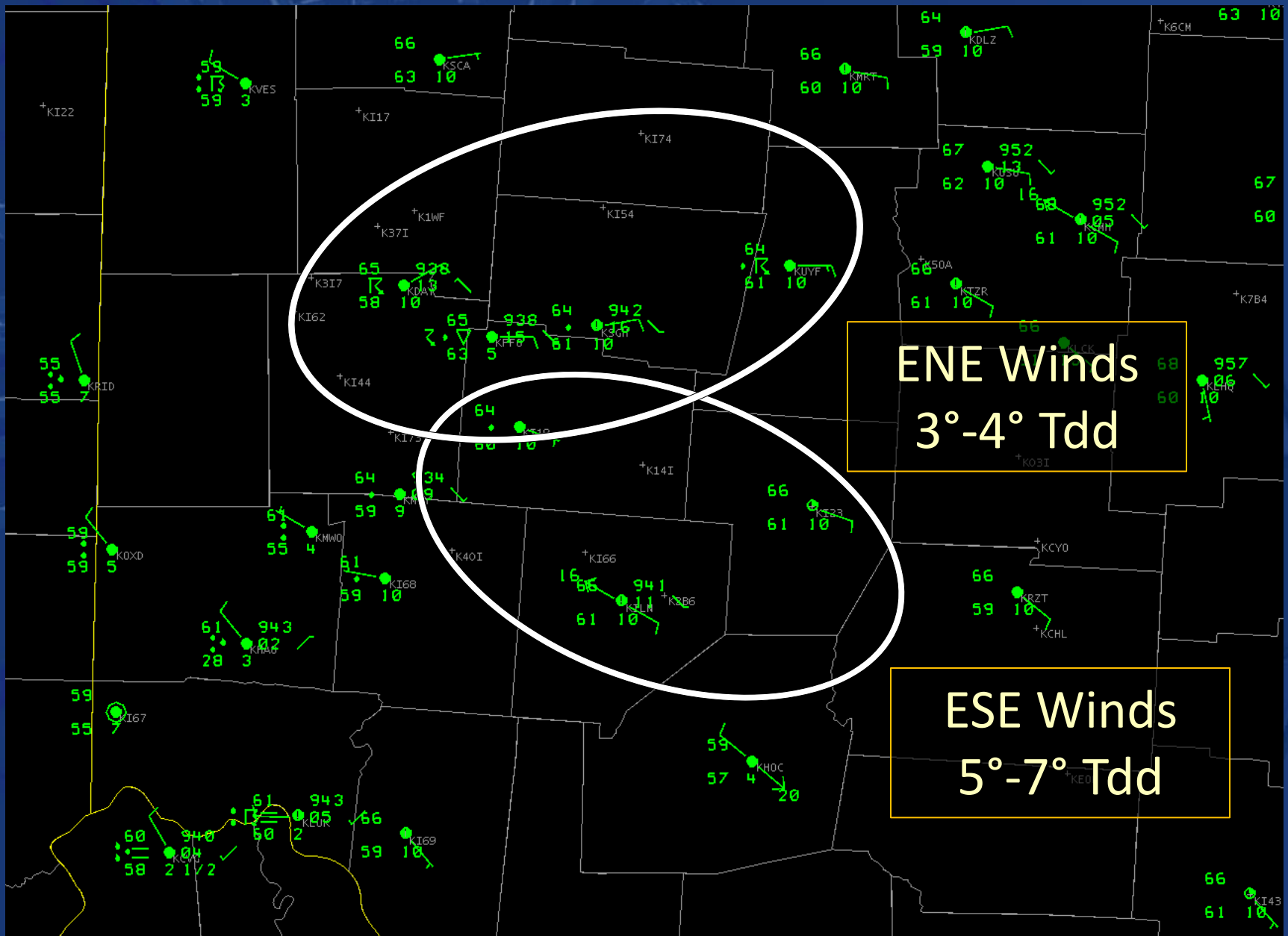
Feature-Following Zoom



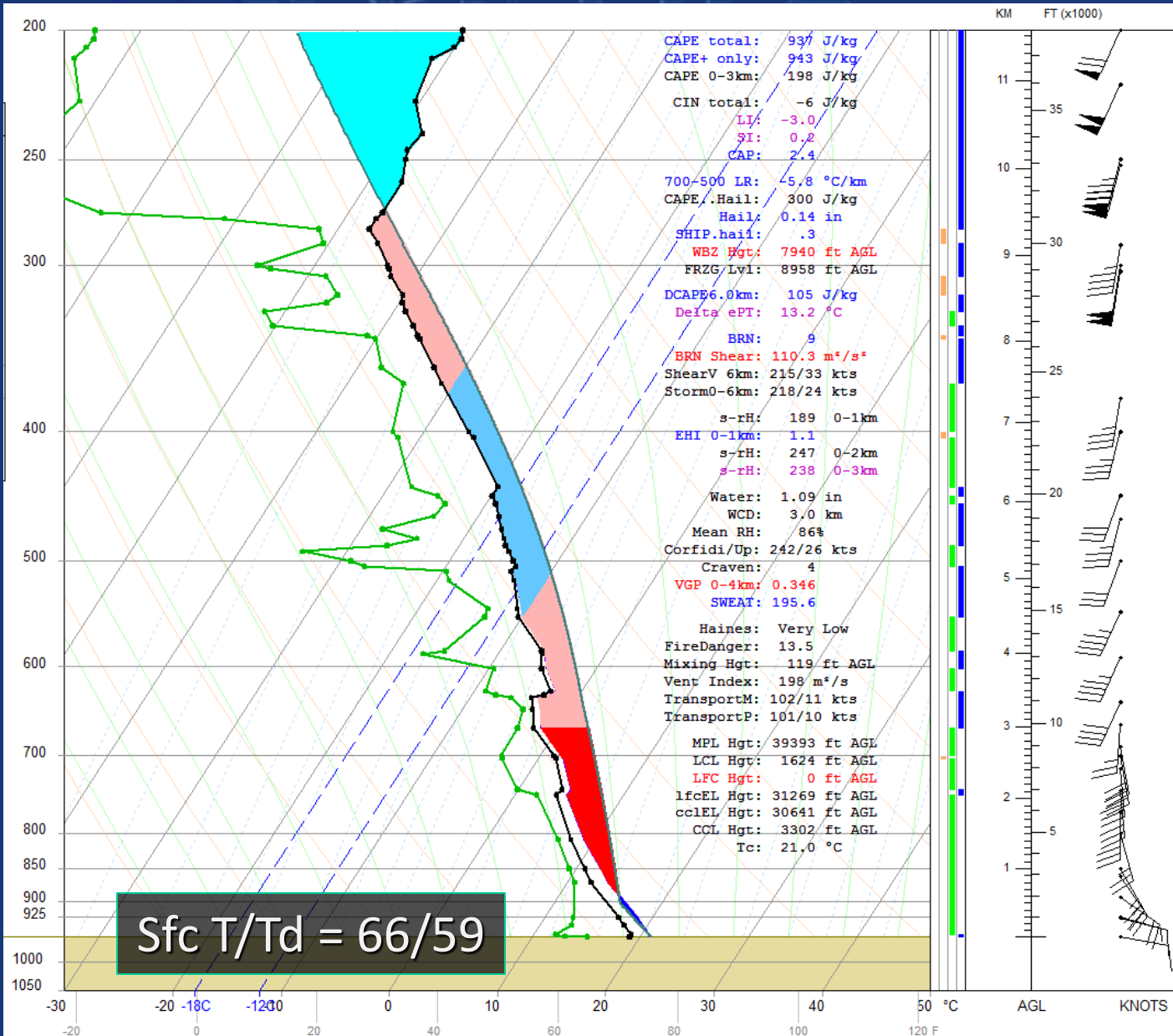
This supercell produced 5 tornadoes (3 shown here)

Tornado-warned from 8:20 PM to 10:29 PM

The Environment



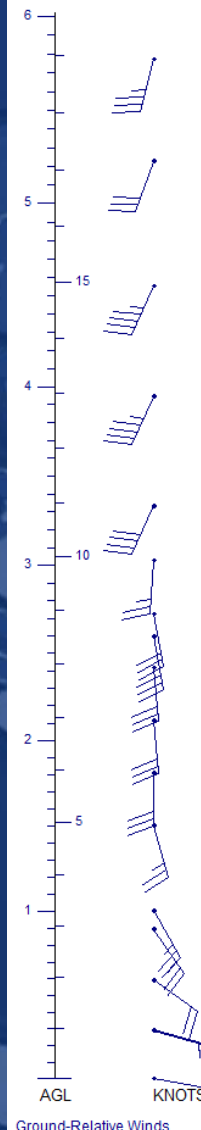
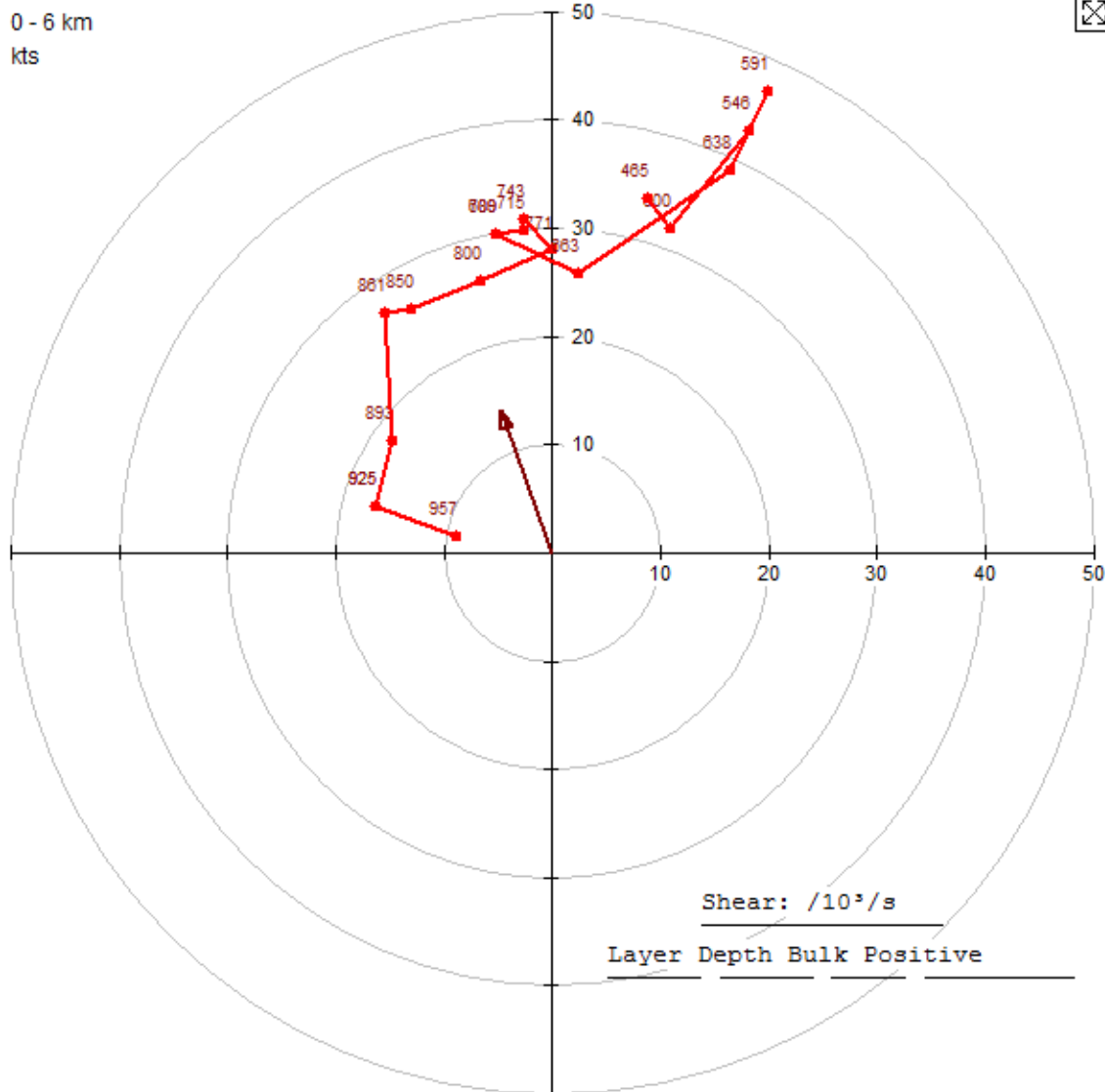
The Environment



CAPE
937 J/kg

0-3km CAPE
198 J/kg

The Environment



CAPE
937 J/kg

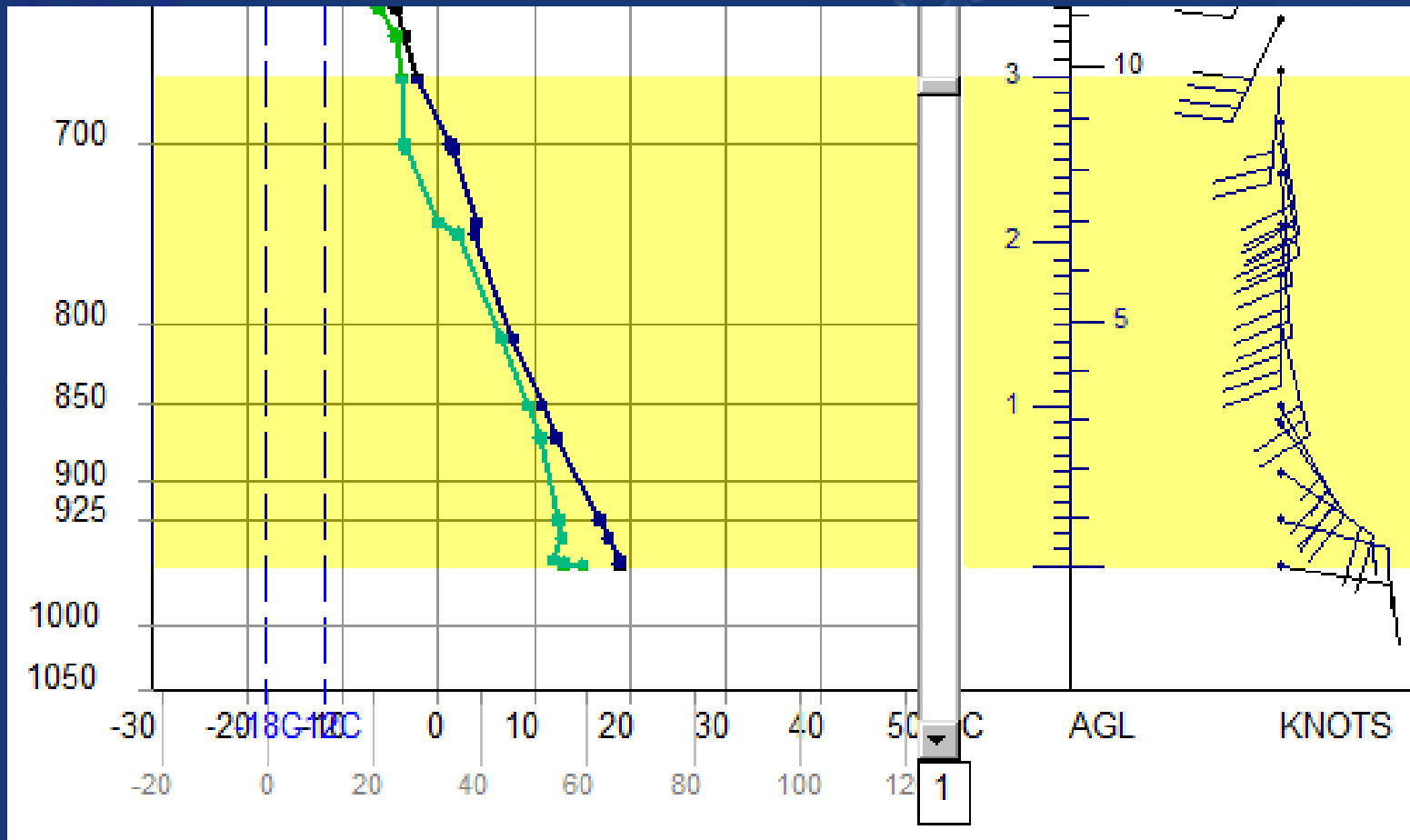
0-3km CAPE
198 J/kg

0-1km SRH
72 m^2/s^2

0-3km SRH
99 m^2/s^2

The Environment

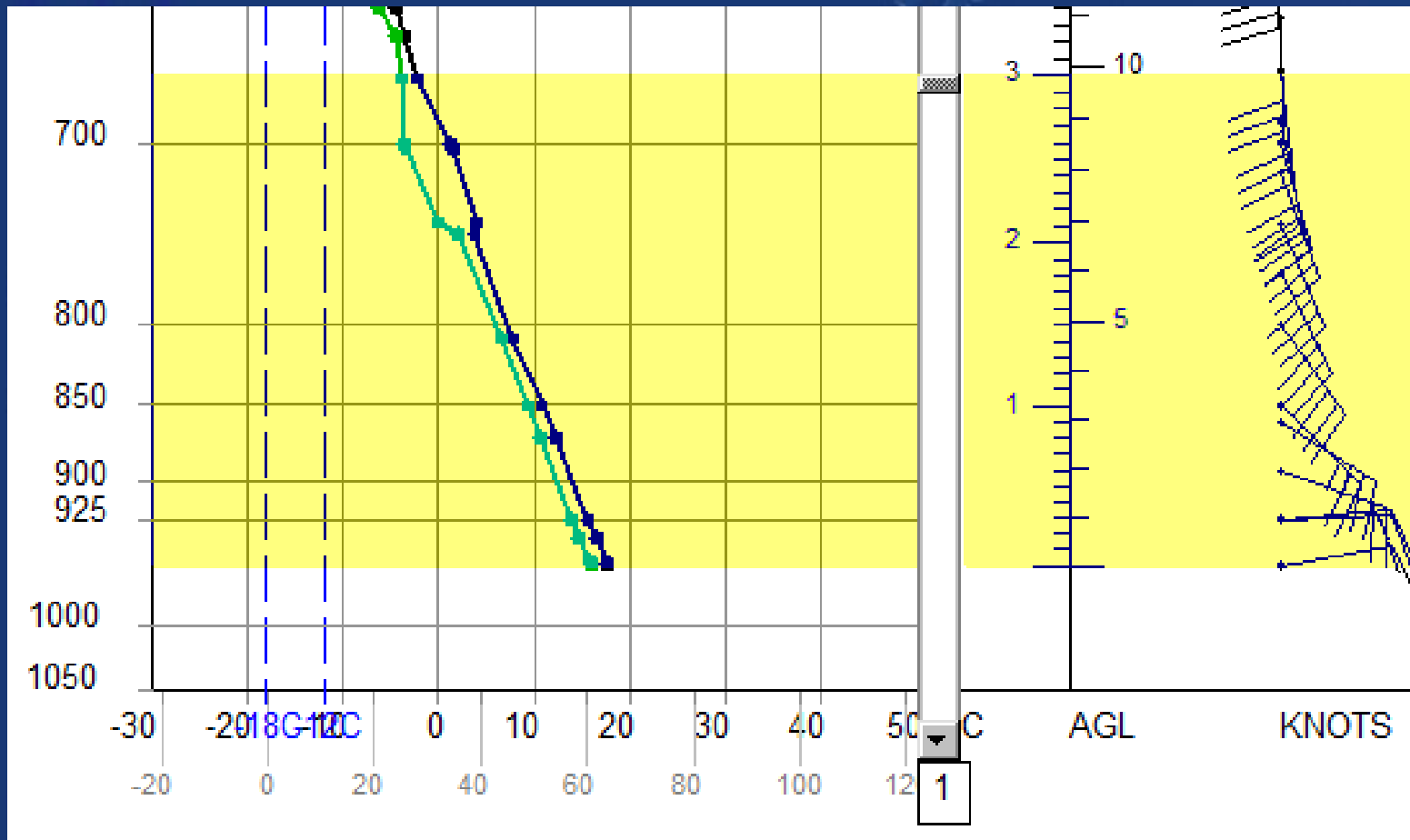
0-3km Layer



- Original sounding

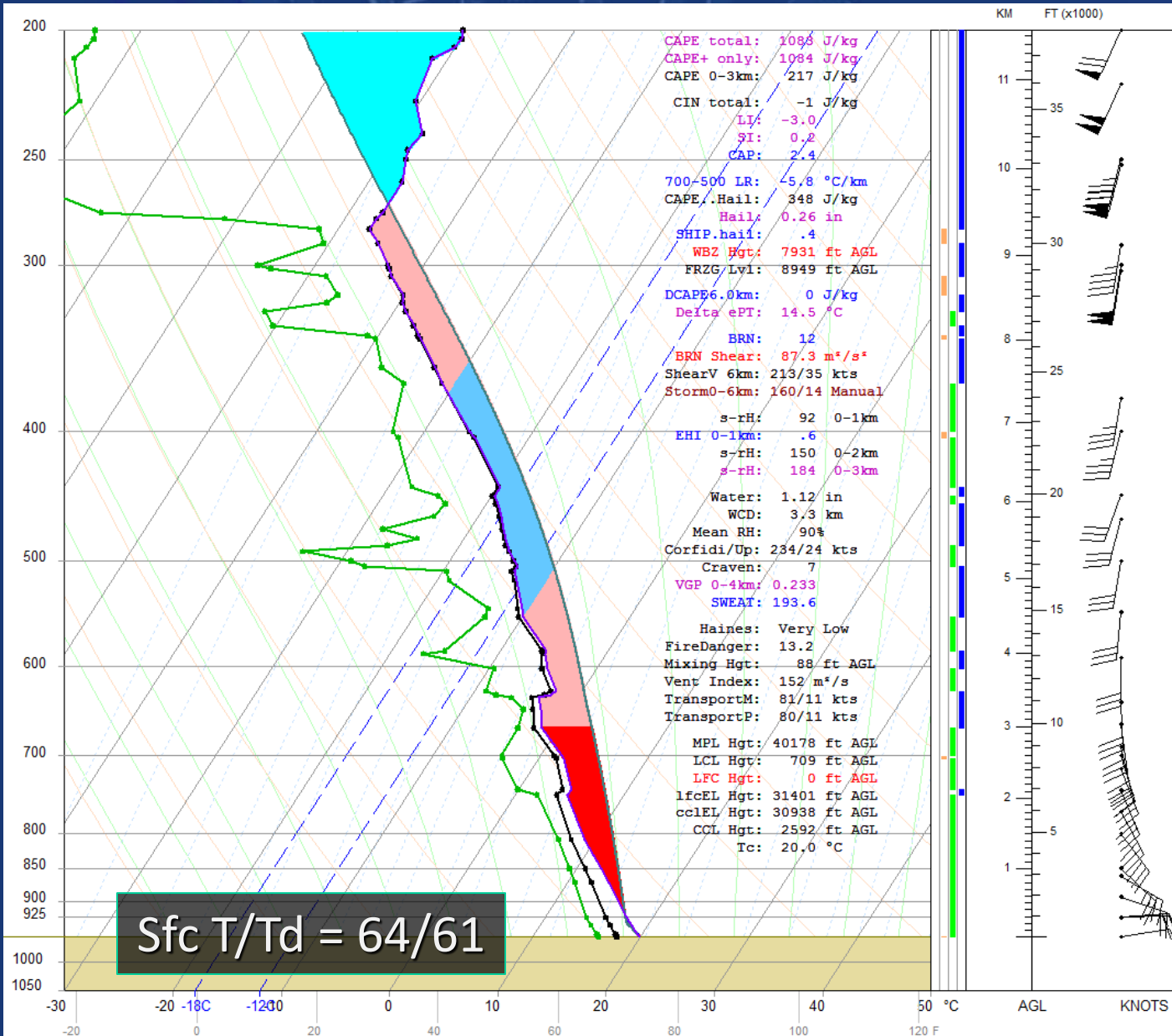
The Environment

0-3km Layer



- Modified sounding

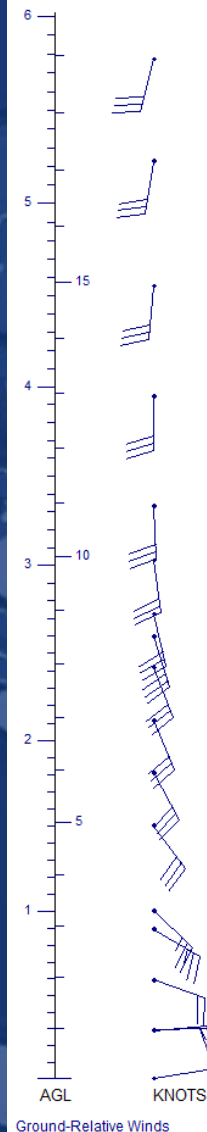
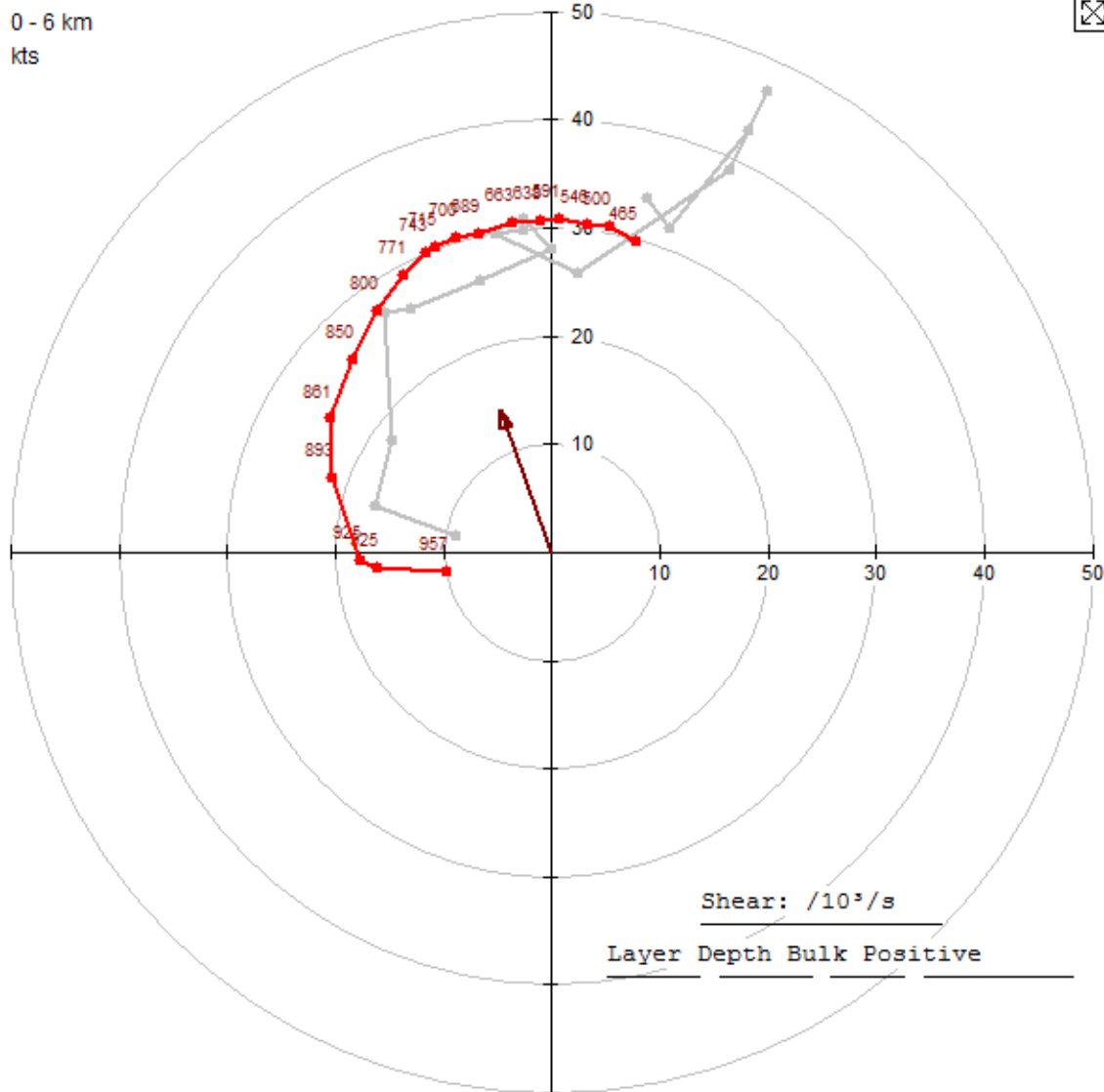
The Environment



CAPE
 1937 J/kg

0-3km CAPE
 198 J/kg

The Environment



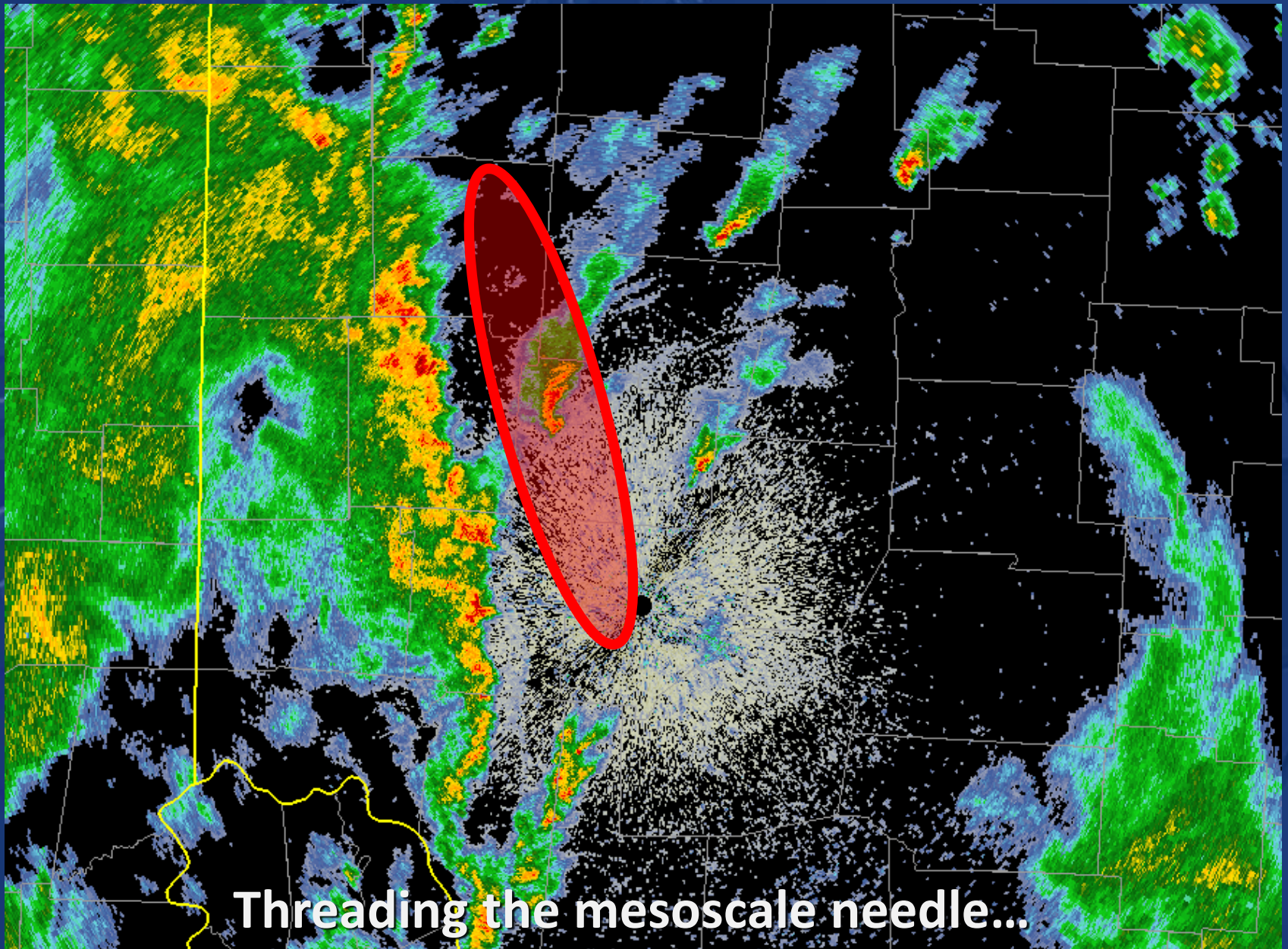
CAPE
1083 J/kg

0-3km CAPE
237 J/kg

0-1km SRH
72 m²/s²

0-3km SRH
199 m²/s²

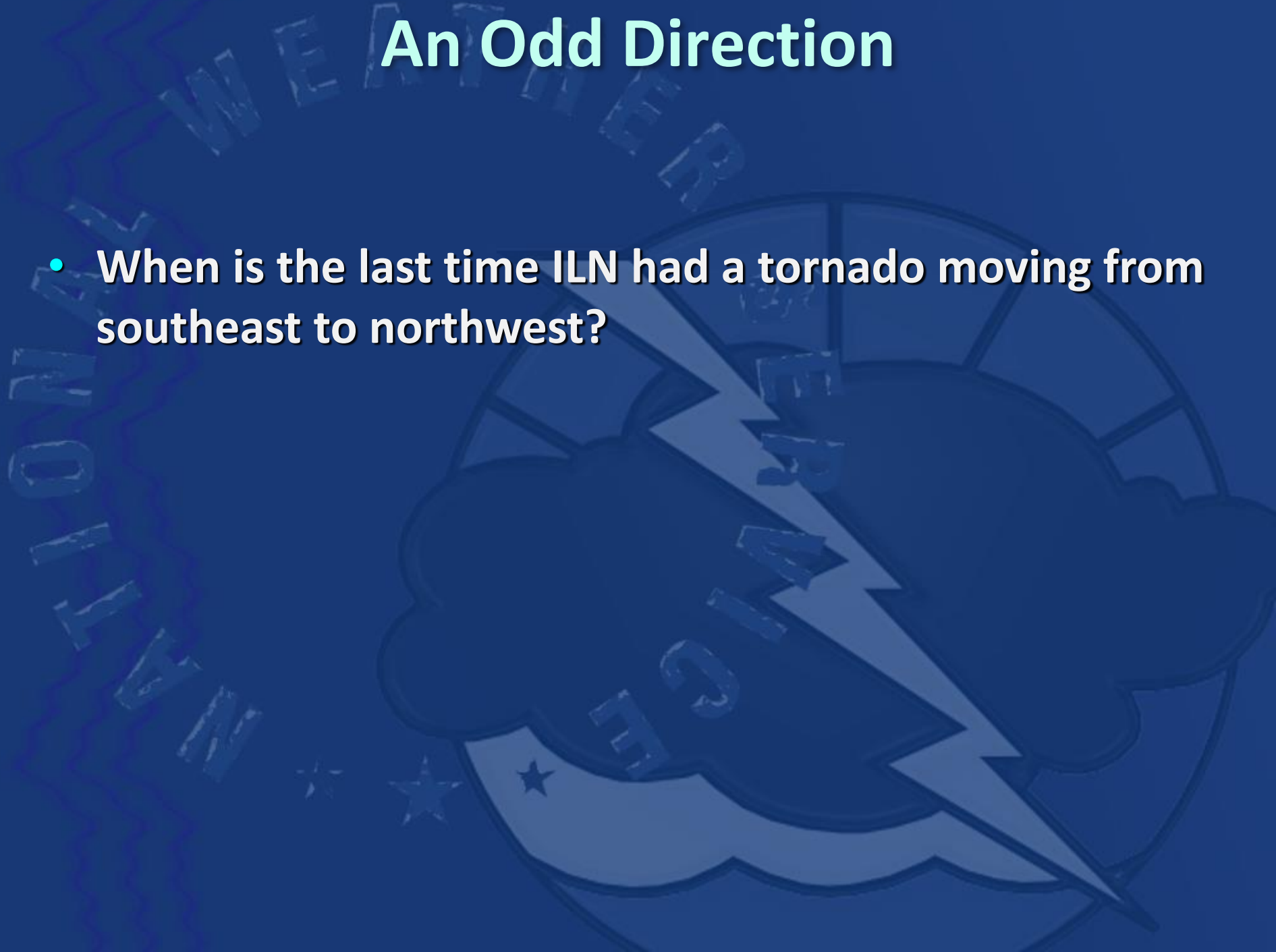
The Environment



Threading the mesoscale needle...

An Odd Direction

- When is the last time ILN had a tornado moving from southeast to northwest?



BULLETIN - EAS ACTIVATION REQUESTED
Tornado Warning
National Weather Service Wilmington OH
940 PM EDT WED MAY 24 2017

An Odd Direction

The National Weather Service in Wilmington has issued a

- * Tornado Warning for...
Central Miami County in west central Ohio...
- * Until 1015 PM EDT.
- * At 938 PM EDT, a severe thunderstorm likely producing a tornado was located 5 miles east of Tipp City, moving northwest at 20 mph.

HAZARD...Tornado.

SOURCE...Radar indicated rotation.

IMPACT...Flying debris will be dangerous to those caught without shelter. Mobile homes will be damaged or destroyed. Damage to roofs, windows, and vehicles will occur. Tree damage is likely.

- * Locations impacted include...
Troy, Tipp City, Casstown, Grayson and Farrington.

This includes I-75 in Ohio between mile markers 69 and 79.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

TAKE COVER NOW! Move to a basement or an interior room on the lowest floor of a sturdy building. Avoid windows. If you are outdoors, in a mobile home, or in a vehicle, move to the closest substantial shelter and protect yourself from flying debris.

To report severe weather, go to our website at weather.gov/iln and submit your report via social media, when you can do so safely.

&&

LAT...LON 3994 8408 3994 8412 3999 8424 4003 8427
4012 8424 4012 8417 4010 8412 3999 8408

TIME...MOT...LOC 0138Z 146DEG 17KT 3997 8411

TORNADO...RADAR INDICATED
HAIL...0.00IN

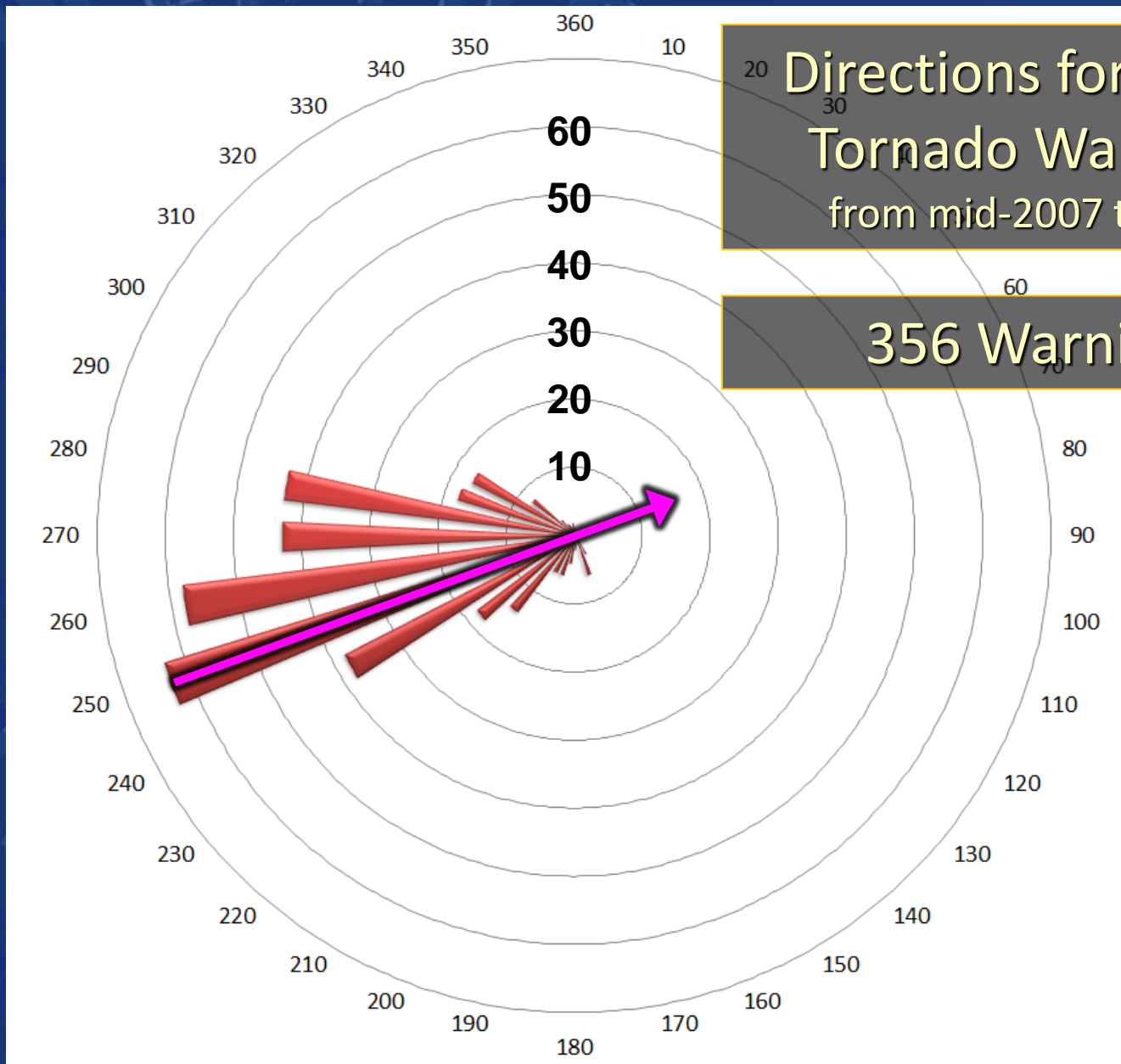
\$\$

Hatzos

TIME...MOT...LOC 0138Z 146DEG 17KT 3997 8411



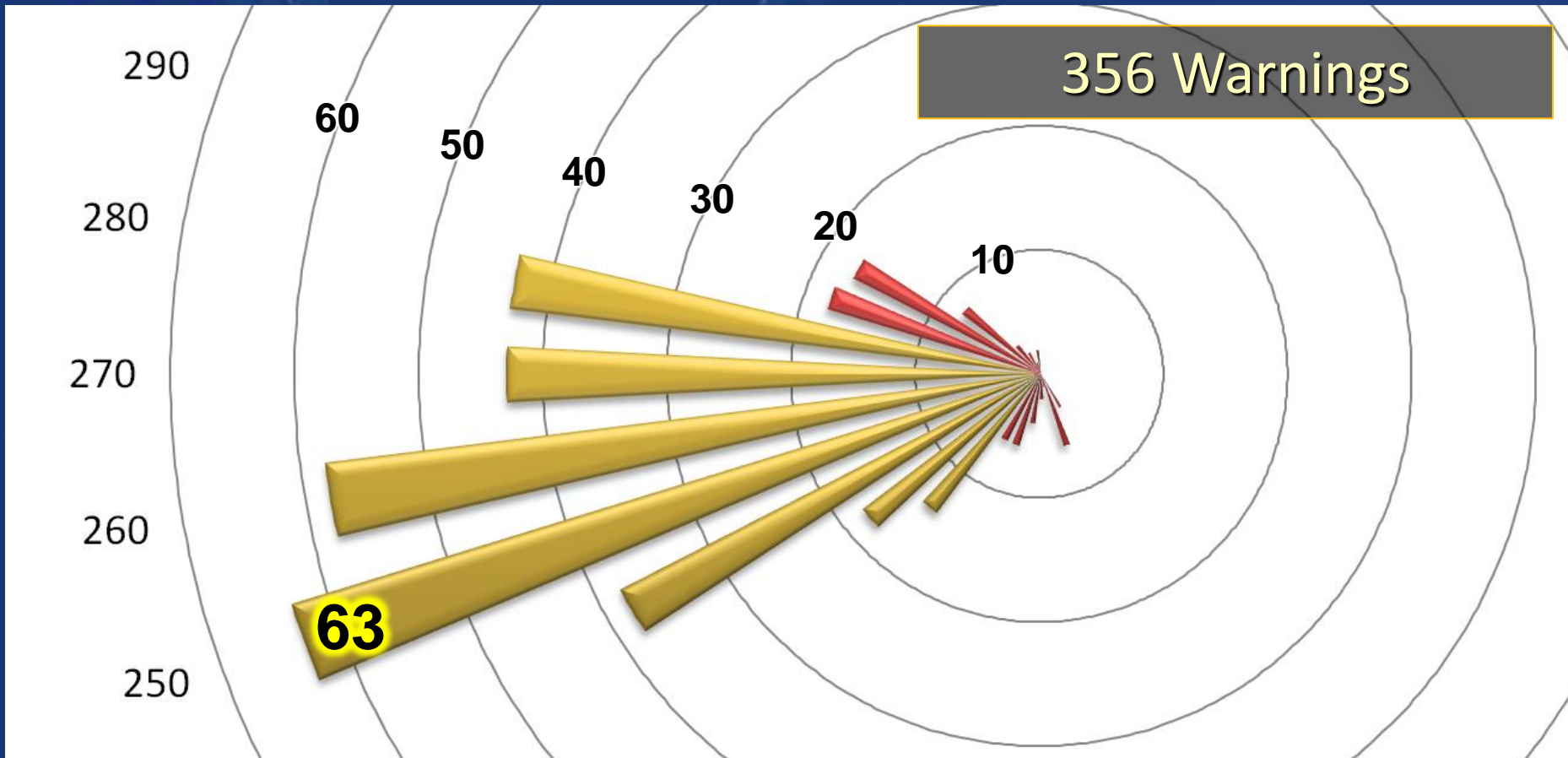
An Odd Direction



Directions for all ILN
Tornado Warnings
from mid-2007 to 2017

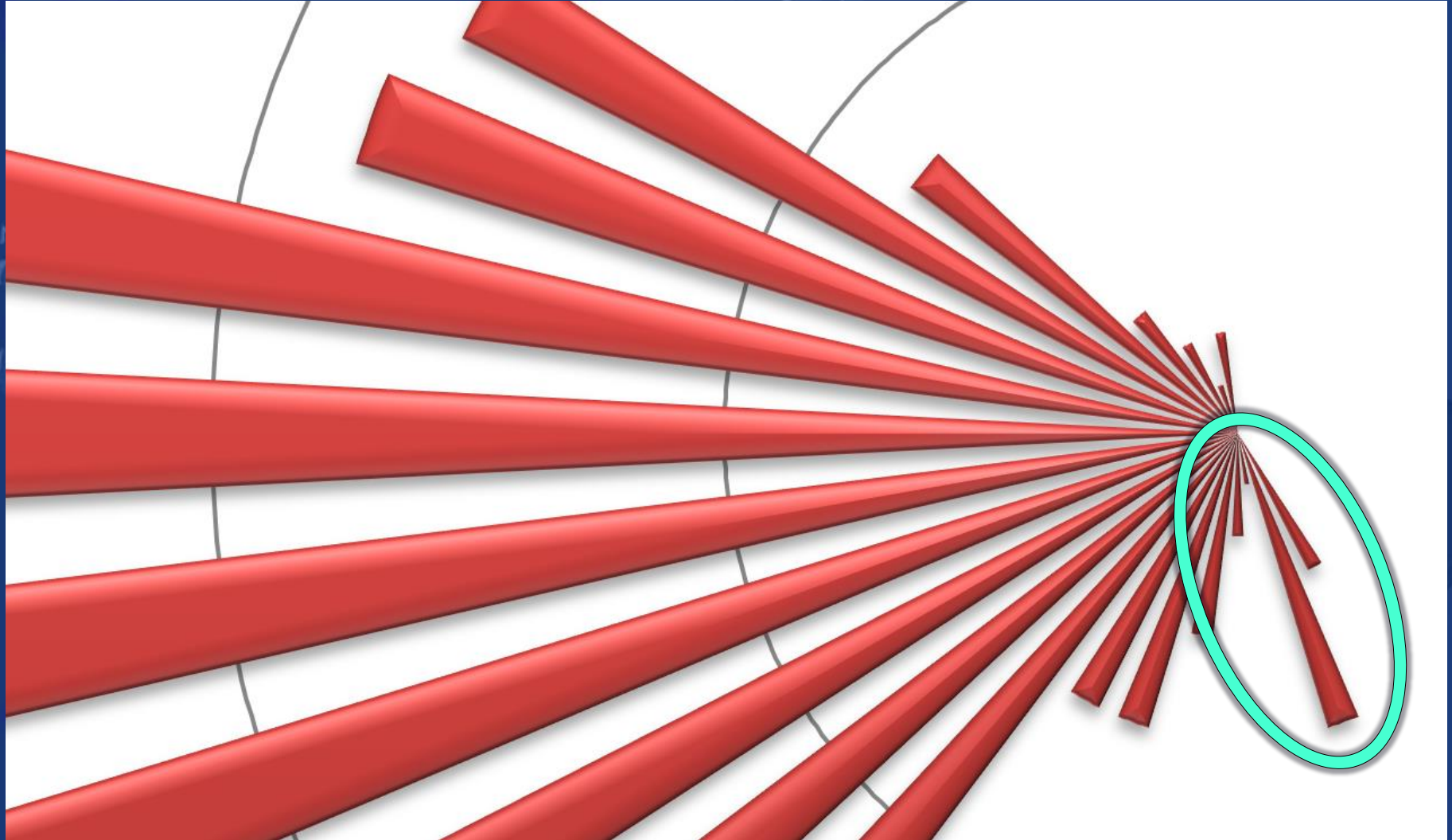
356 Warnings

An Odd Direction



78% of all Tornado Warnings
were out of the **SW**, **WSW**, or **W**

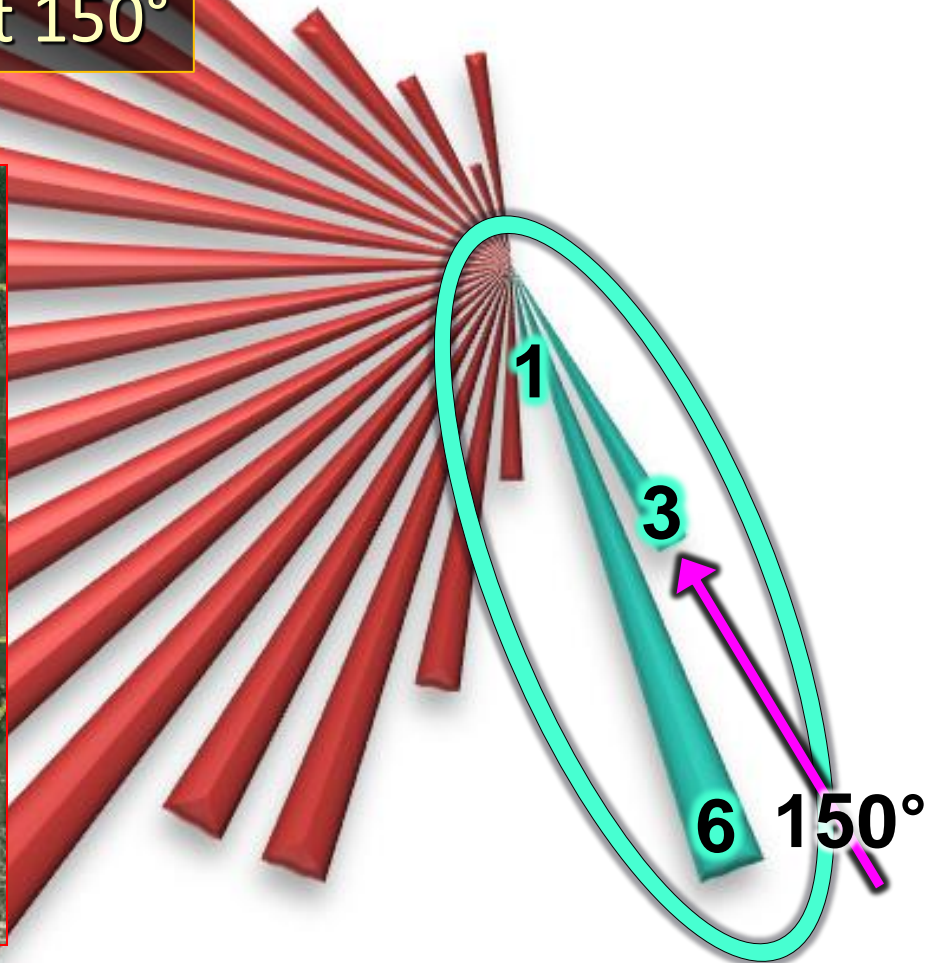
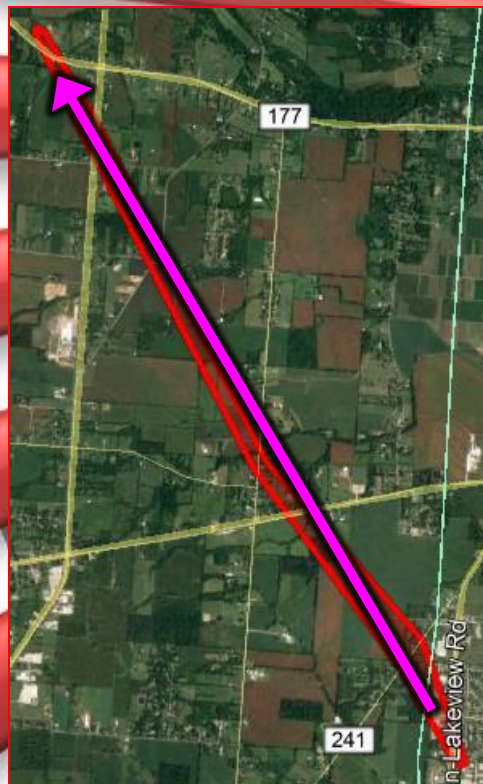
An Odd Direction



An Odd Direction

First-ever tornado warnings from the southeast!

Park Layne verified at 150°



A Policy Adjustment

- Can we make a tornado confirmation on pictures/video alone?
- Yep!
- What rating to assign with no damage to survey?

EF-U_nknown



Thank you!

Andy Hatzos

@thegreatzo

NWS Wilmington Ohio

@NWSILN