



# ***How NWS Albany utilizes CoCoRaHS data to create snow and rain ground truth verification maps in GIS (“GAZPACHO” maps)***

Christina Speciale

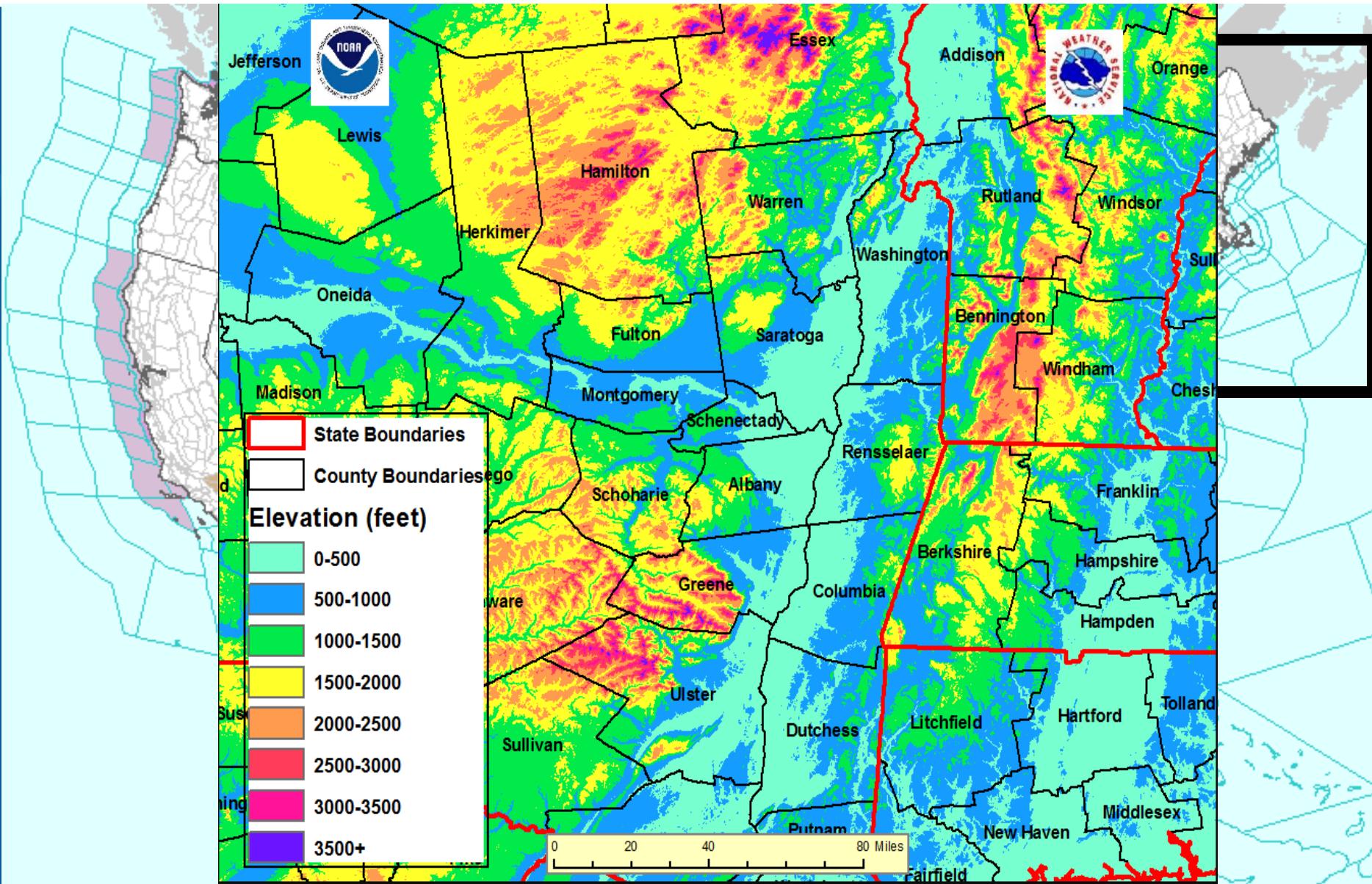
NWS Albany Meteorologist & co-coordinator for CoCoRaHS program in eastern NY & Western New England

Jennifer Vogt

NWS Albany Meteorologist & co-coordinator for CoCoRaHS program in eastern NY & Western New England



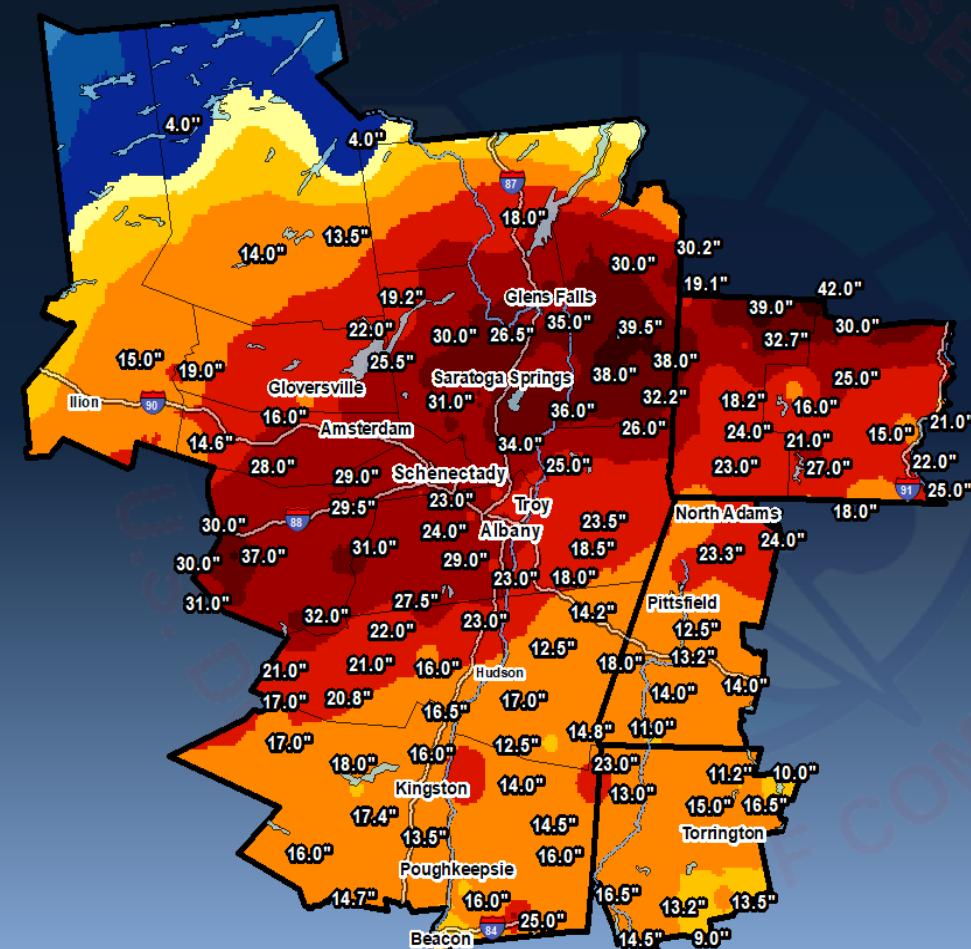
# Albany, NY County Warning Area





# Mega Snowstorm – December 2020

## National Weather Service Albany New York Historic Snowstorm 16-17 December 2020 Analysis Data Source: Regional Observations



### Snowfall Analysis 0" - 120"

|                |
|----------------|
| 0.0"           |
| < 1.0"         |
| 1.0" - 2.0"    |
| 2.0" - 3.0"    |
| 3.0" - 4.0"    |
| 4.0" - 6.0"    |
| 6.0" - 8.0"    |
| 8.0" - 12.0"   |
| 12.0" - 18.0"  |
| 18.0" - 24.0"  |
| 24.0" - 30.0"  |
| 30.0" - 36.0"  |
| 36.0" - 48.0"  |
| 48.0" - 60.0"  |
| 60.0" - 72.0"  |
| 72.0" - 96.0"  |
| 96.0" - 120.0" |
| 120.0+"        |

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01/10/2021 11:17PM

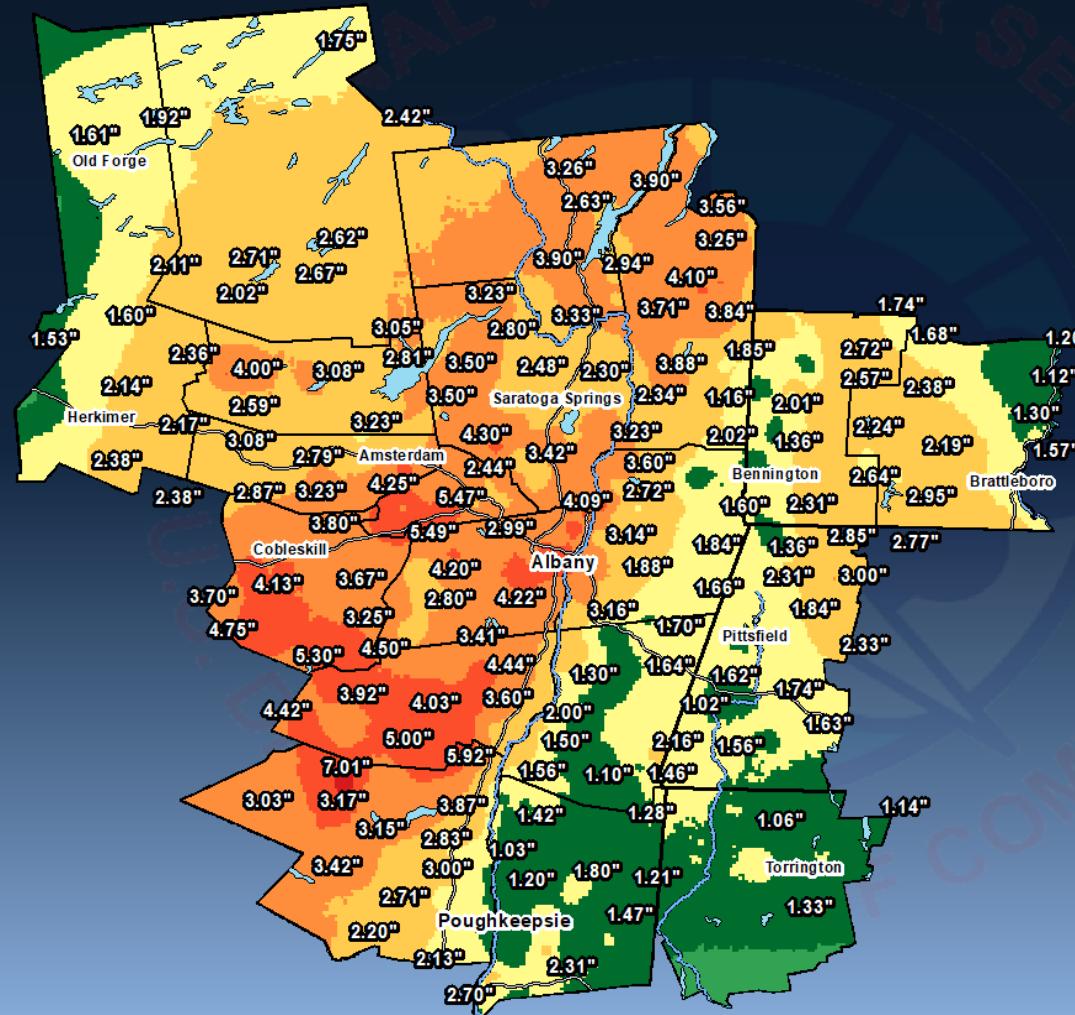


# Tropical Storm Isaias – August 2020

## National Weather Service Albany New York

### Storm Total Rainfall Amounts

Analysis Data Source: Regional Observations



#### Rainfall Analysis 0" - 50"

- 0.00"
- 0.01" - 0.09"
- 0.10" - 0.24"
- 0.25" - 0.49"
- 0.50" - 0.99"
- 1.00" - 1.49"
- 1.50" - 1.99"
- 2.00" - 2.99"
- 3.00" - 3.99"
- 4.00" - 5.99"
- 6.00" - 7.99"
- 8.00" - 9.99"
- 10.00" - 14.99"
- 15.00" - 19.99"
- 20.00" - 29.99"
- 30.00" - 50.00"

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08/05/2020 02:55PM

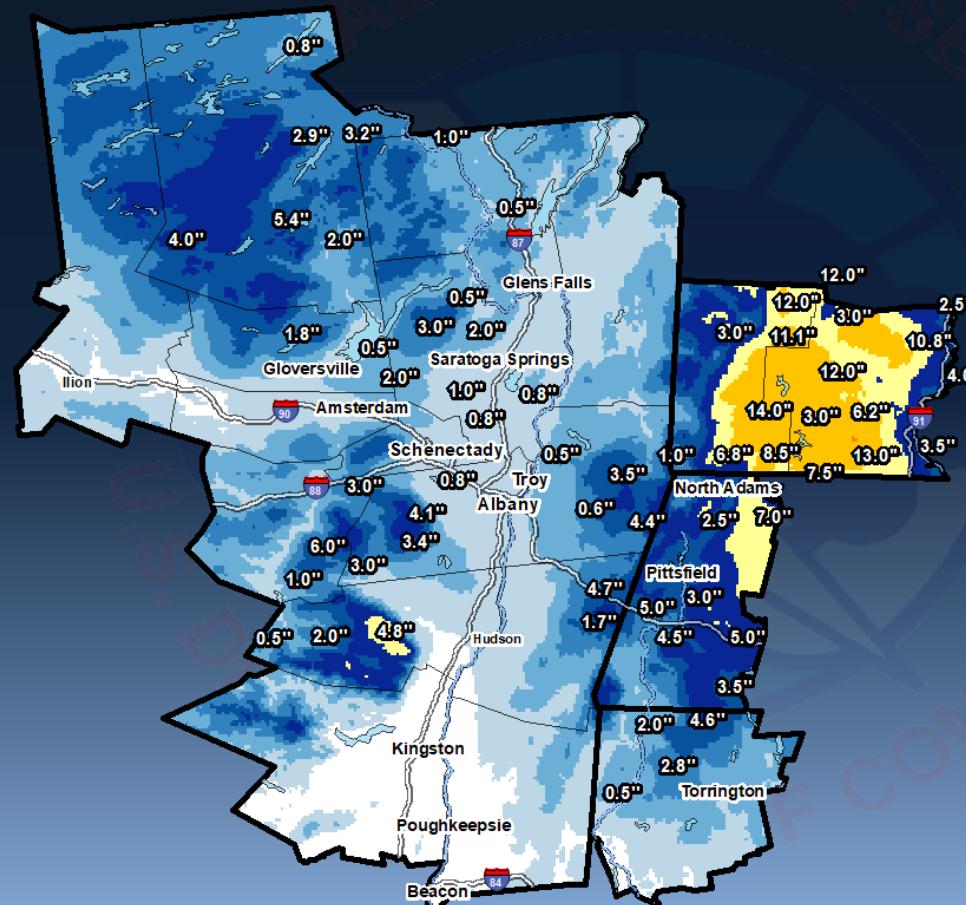


# Analyze (& appreciate!) CoCoRaHs data from high terrain

## National Weather Service Albany New York

Snowfall Apr 15-17, 2021

Analysis Data Source: NOHRSC and Regional Observations



Snowfall Analysis 0" - 120"

- 0.0"
- < 1.0"
- 1.0" - 2.0"
- 2.0" - 3.0"
- 3.0" - 4.0"
- 4.0" - 6.0"
- 6.0" - 8.0"
- 8.0" - 12.0"
- 12.0" - 18.0"
- 18.0" - 24.0"
- 24.0" - 30.0"
- 30.0" - 36.0"
- 36.0" - 48.0"
- 48.0" - 60.0"
- 60.0" - 72.0"
- 72.0" - 96.0"
- 96.0" - 120.0"
- 120.0+"

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04/17/2021 02:04PM

This is an experimental product. Care should be taken in using the data. Unofficial observations are plotted. Values at interpolated locations may not represent actual reports at that location.



[www.weather.gov/albany](http://www.weather.gov/albany)



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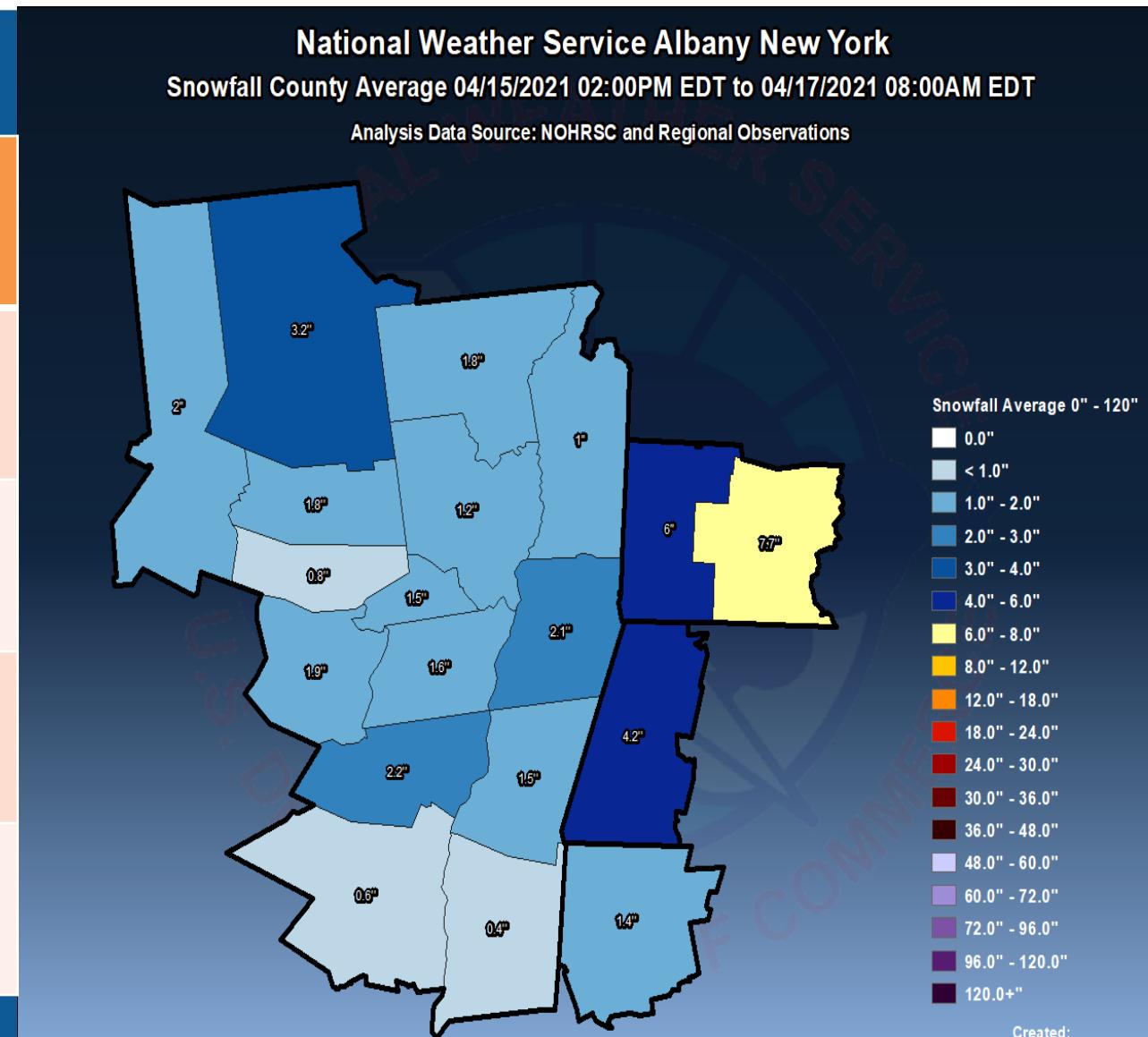


NWSAlbany



# CoCoRaHs Data Assists NWS Verification

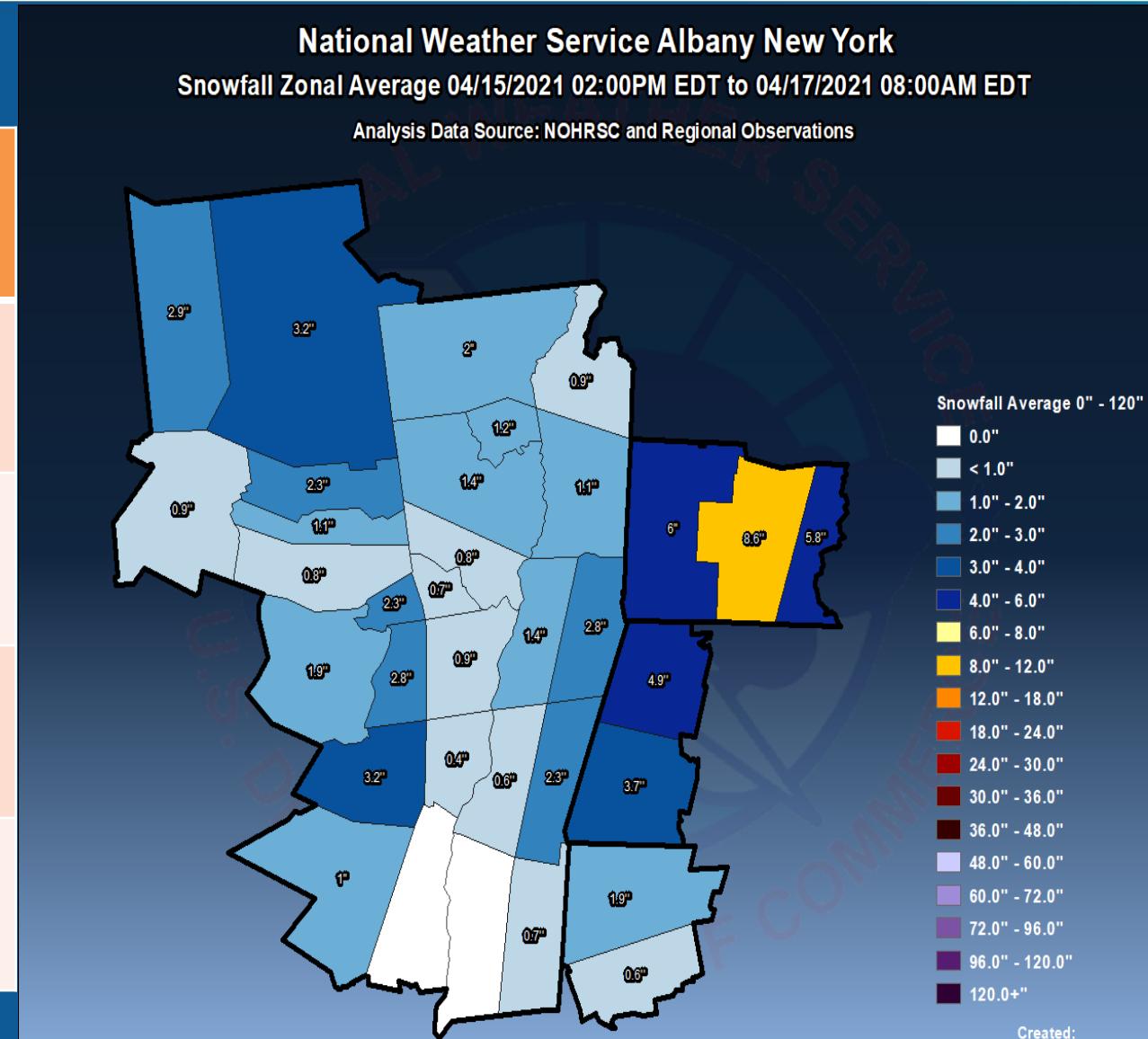
| Winter Storm Warning Criteria |                |
|-------------------------------|----------------|
| NY                            | 7" in 12 hours |
|                               | -----          |
|                               | 9" in 24 hours |
| CT                            | 6" in 12 hours |
|                               | -----          |
|                               | 8" in 12 hours |
| MA                            | 6" in 12 hours |
|                               | -----          |
|                               | 8" in 12 hours |
| VT                            | 6" in 12 hours |
|                               | -----          |
|                               | 9" in 12 hours |





# CoCoRaHs Data Assists NWS Verification

| Winter Storm Warning Criteria |                |
|-------------------------------|----------------|
| NY                            | 7" in 12 hours |
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|                               | -----          |
|                               | 8" in 12 hours |
| VT                            | 6" in 12 hours |
|                               | -----          |
|                               | 9" in 12 hours |





# Questions?

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