

New Jersey: Report from the field

Dave Robinson & Mat Gerbush
NJ Co-Coordiators

June 10, 2024



Weston Canal & School House intersection
Somerset, NJ
2 September 2021

Daily Reminder: if requested

CoCoRaHS Reminder: Wednesday, June 5, 2024



CoCoRaHS Reminder <cocorahs_reminder@email.rutgers.edu>

Today at 5:00 AM

To: cocorahs_reminder@email.rutgers.edu



Good Wednesday Morning!

Don't forget to enter your CoCoRaHS observation - even if it's zero.

<http://www.cocorahs.org/Admin/MyDataEntry/DailyPrecipReport.aspx>

This automatic daily [CoCoRaHS](http://www.cocorahs.org) e-mail reminder is a service of the [Office of the New Jersey State Climatologist](http://www.rutgers.edu/climate) at [Rutgers University](http://www.rutgers.edu).

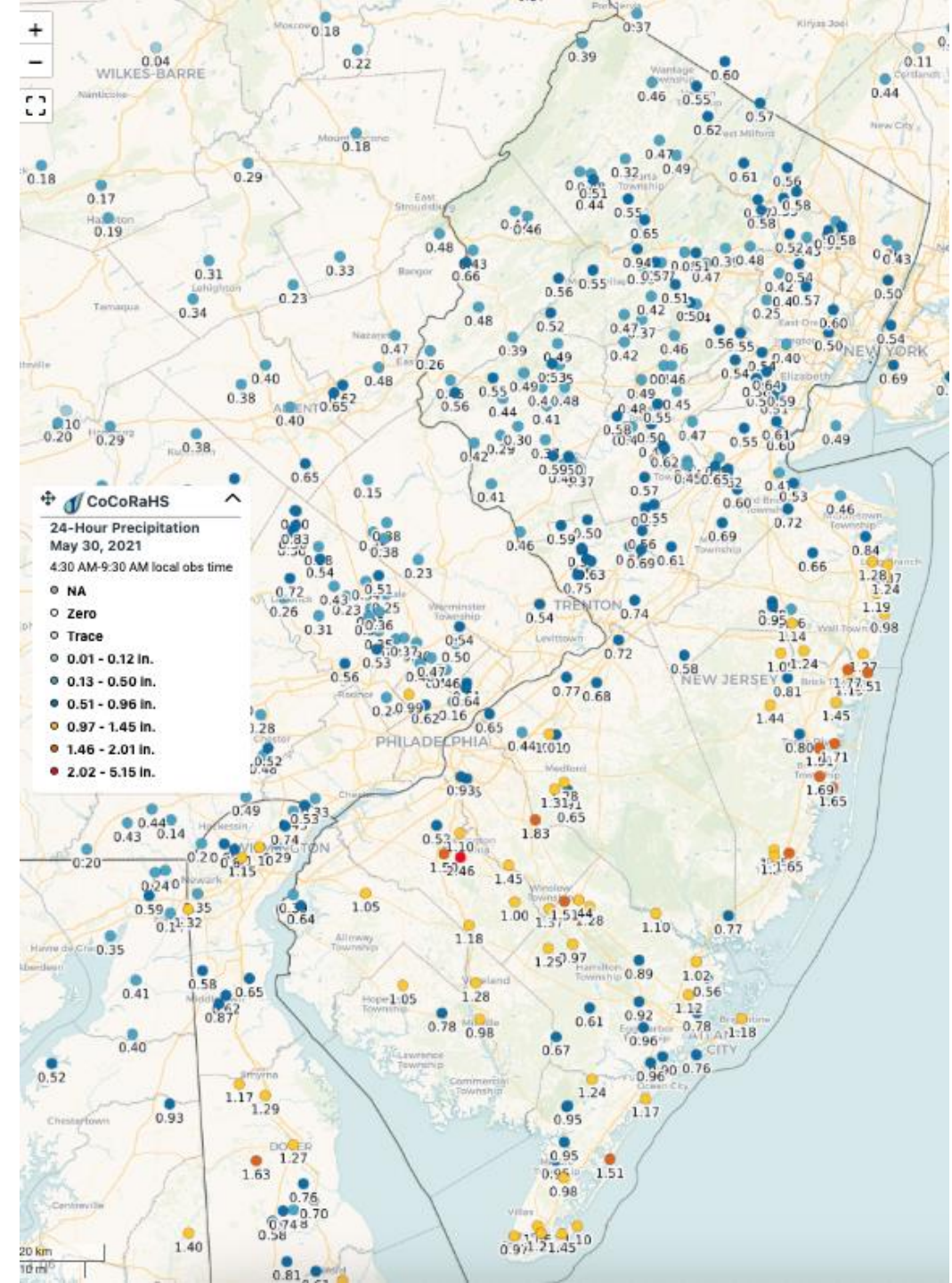
Do not reply to this e-mail, as it is an unmonitored mailbox.

For **QUESTIONS** or **COMMENTS** regarding the New Jersey CoCoRaHS network, please contact Mathieu Gerbush at njcocorahs@geography.rutgers.edu.

To edit your subscription to this mailing list or to **UNSUBSCRIBE**, please visit https://email.rutgers.edu/mailman/listinfo/cocorahs_reminder.

Typical reporting coverage
following a statewide event

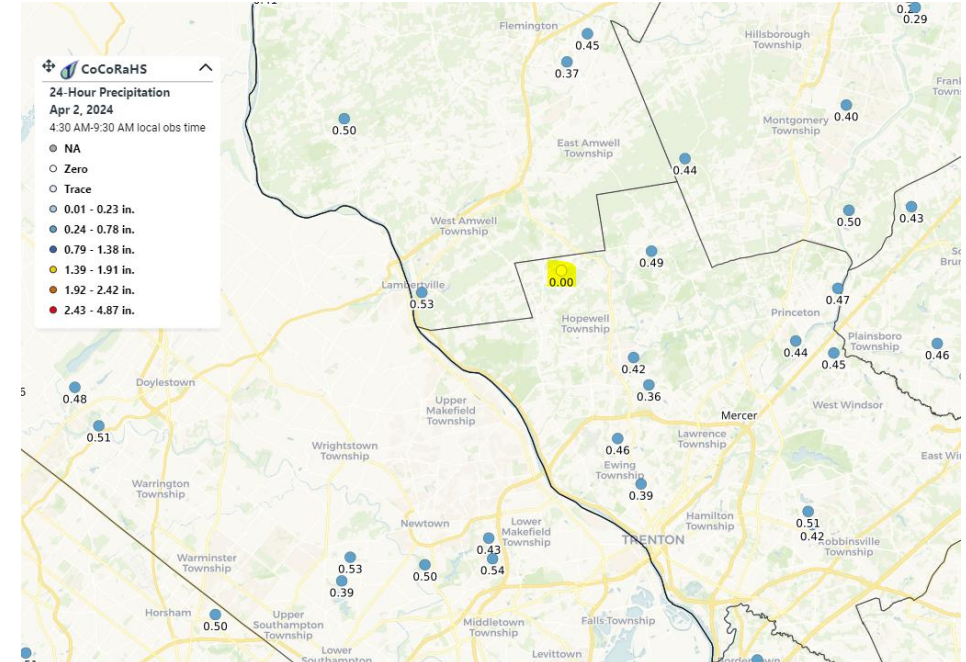
May 30, 2024



Quality control efforts

1. Daily manual QC via maps and tables. Observers are contacted to confirm questionable reports. During widespread frozen events, several dozen volunteers are routinely contacted to confirm/clarify report entries.
2. Retrospective QC (prior months) performed using CoCoRaHS Error Check Assistant (CECA; thanks to Tony Bergantino, Wyoming State Climate Office!). CECA identifies possible errors and is especially helpful in catching errors from late-entered reports (much higher error rate!).

False Zero: Surrounding stations all have precipitation									
Incorrect/Multi-Day: Precip observed at station but all surrounding stations are 0.00"									
Error	Station	Precip	Obs Date	Entry Date	Nearby Stns	Map	QC Status	Stations Used	
Anomalously low At least 0.25" under surrounding	NJ-CM-45	0.60" 1.984 σ low	02-Apr-2024	02-Apr-2024	Count=5 Avg=1.30 σ =0.352	Station		NJ-CM-29 2.7mi 1.58"	NJ-CM-34 3.6mi 1.80"
								NJ-CM-30 4.9mi 1.27"	NJ-CM-53 7.7mi 0.94"
								NJ-CM-46 9.7mi 0.90"	
False Zero?	NJ-MC-27	0.00" 7.665 σ low	02-Apr-2024	06-Apr-2024 Late!	Count=5 Avg=0.45 σ =0.058	Station		NJ-MC-46 3.6mi 0.49"	NJ-MC-62 4.4mi 0.42"
								NJ-HN-42 5.6mi 0.53"	NJ-MC-49 5.7mi 0.36"
								NJ-SM-106 6.6mi 0.44"	
Anomalously low At least 0.25" under surrounding	NJ-BG-30	0.72" 6.430 σ low	03-Apr-2024	03-Apr-2024	Count=5 Avg=1.36 σ =0.099	Station		NJ-BG-23 0.7mi 1.33"	NJ-PS-40 2.6mi 1.26"
								NJ-PS-22 3.3mi 1.25"	NJ-MS-106 5.9mi 1.44"
								NJ-MS-12 6.2mi 1.50"	
Anomalously low At least 0.25" under surrounding	NJ-CM-45	0.20" 4.509 σ low	03-Apr-2024	03-Apr-2024	Count=5 Avg=0.65 σ =0.100	Station		NJ-CM-29 2.7mi 0.63"	NJ-CM-34 3.6mi 0.60"
								NJ-CM-30 4.9mi 0.53"	NJ-CM-64 7.2mi 0.83"
								NJ-CM-53 7.7mi 0.66"	
Anomalously low At least 0.25" under surrounding	NJ-MS-123	1.11" 3.193 σ low	03-Apr-2024	03-Apr-2024	Count=5 Avg=1.57 σ =0.145	Station		NJ-MS-82 2.7mi 1.54"	NJ-MS-51 4.5mi 1.75"
								NJ-MS-42 4.5mi 1.73"	NJ-MS-23 5.1mi 1.40"
								NJ-SM-104 5.9mi 1.44"	
Anomalously low	NJ-BG-30	0.90"	04-Apr-2024	04-Apr-2024	Count=5	Station		NJ-BG-23 0.7mi 1.54"	





**New Jersey
CoCoRaHS
Certificate of Appreciation**



is hereby granted to:

Raymond C. Martin Jr
NJ-MC-70

For Outstanding Service in 2023 as a Volunteer Weather Observer

A handwritten signature in black ink, reading 'David A. Robinson'.

Dr. David A. Robinson
NJ State Climatologist
NJ CoCoRaHS Co-Coordinator

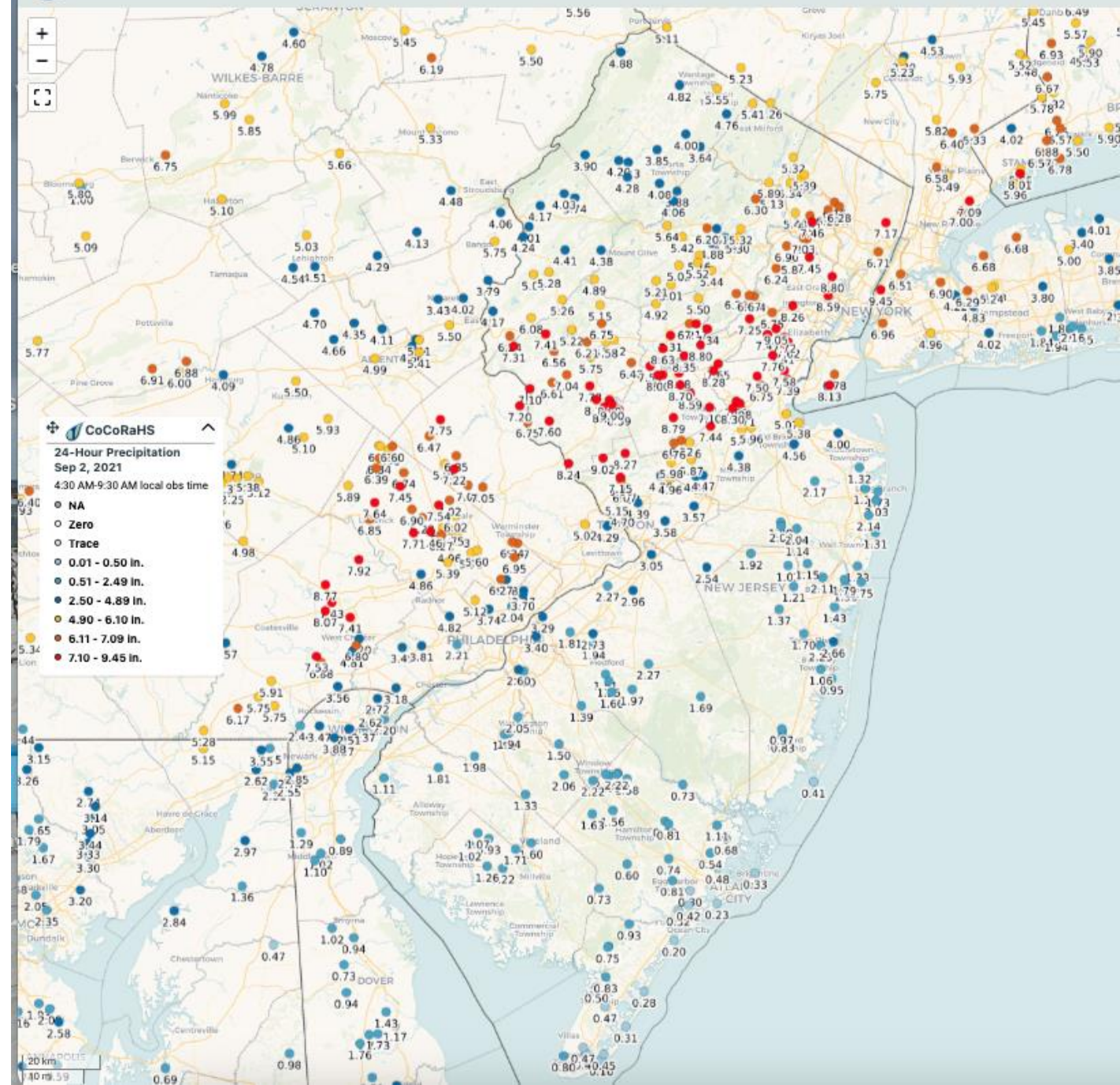
A handwritten signature in black ink, reading 'Mathieu R. Gerbush'.

Mr. Mathieu R. Gerbush
NJ Assistant State Climatologist
NJ CoCoRaHS Co-Coordinator

Sent to those with 7 days or fewer missing (includes counts for multi-day reports)
136 Observers in 2023

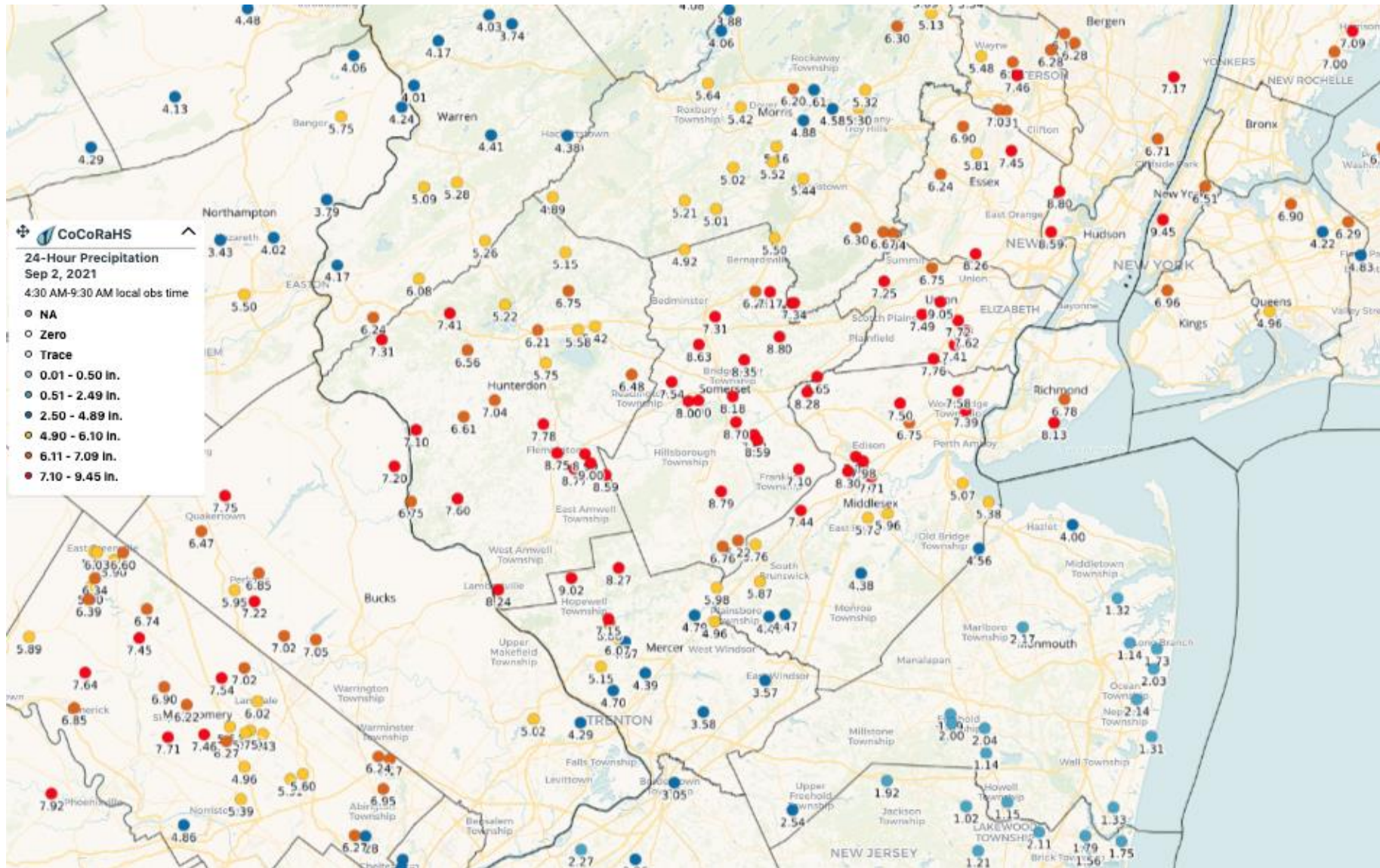
Examples of the utility of CoCoRaHS observations

1. Support for FEMA disaster declarations: snow removal; landslide
2. Weekly reports to the US Dept. of Agriculture's National Agricultural Statistics Service
3. Snow event reports
4. Flood threats: snow water equivalent
5. Multitude of precipitation requests
6. Supplement Rutgers NJ Weather Network and NWS Coop observations
7. Record annual precipitation for a NJ location:
2011: 90.65" West Milford (first CoCo station to be so recognized)
8. Drought
US Drought Monitor
New Jersey Dept. Environmental Protection drought committee



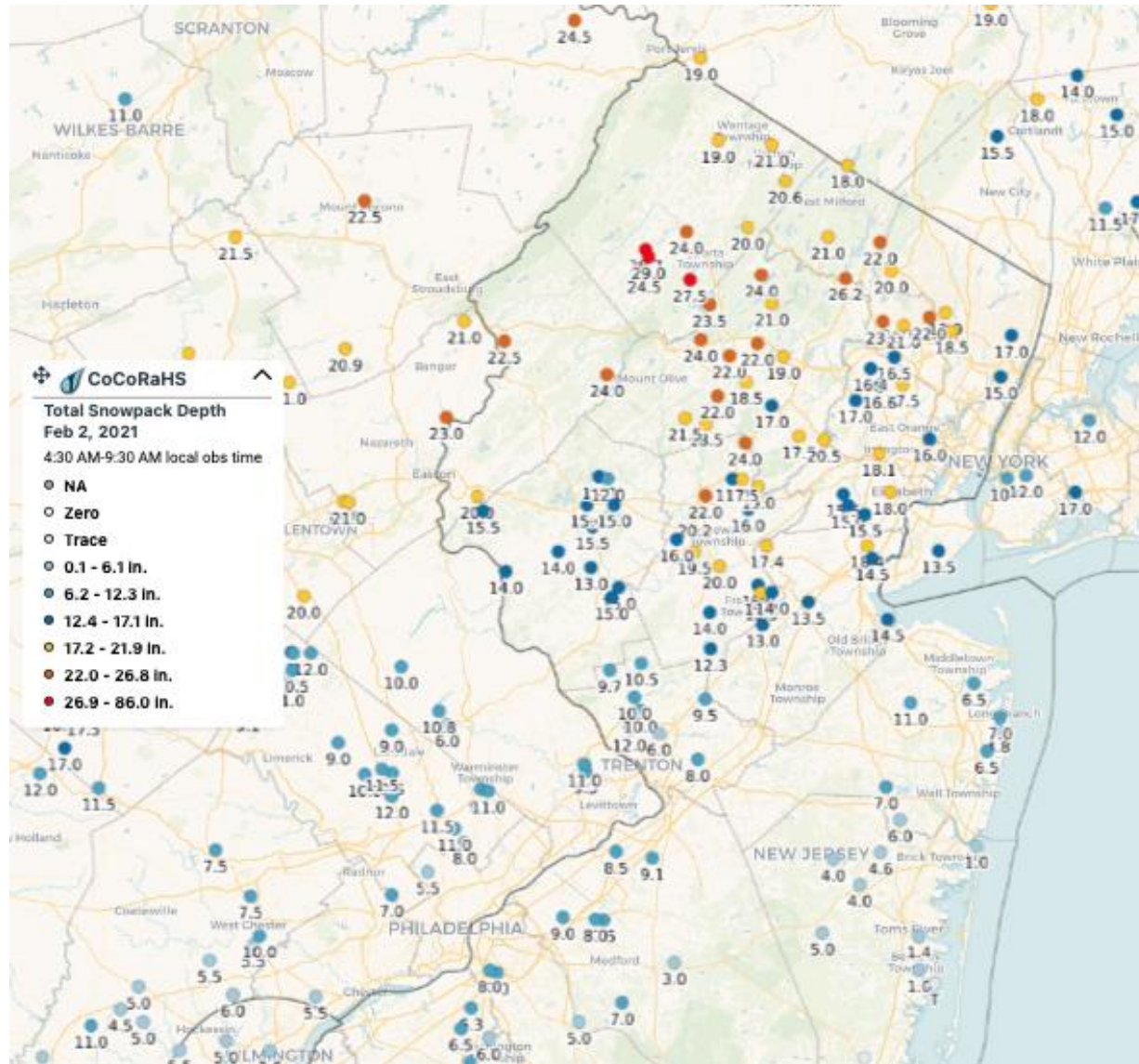
Ida daily reports
September 2, 2021

Zeroing in on Ida's heaviest: two months of rain in less than a day

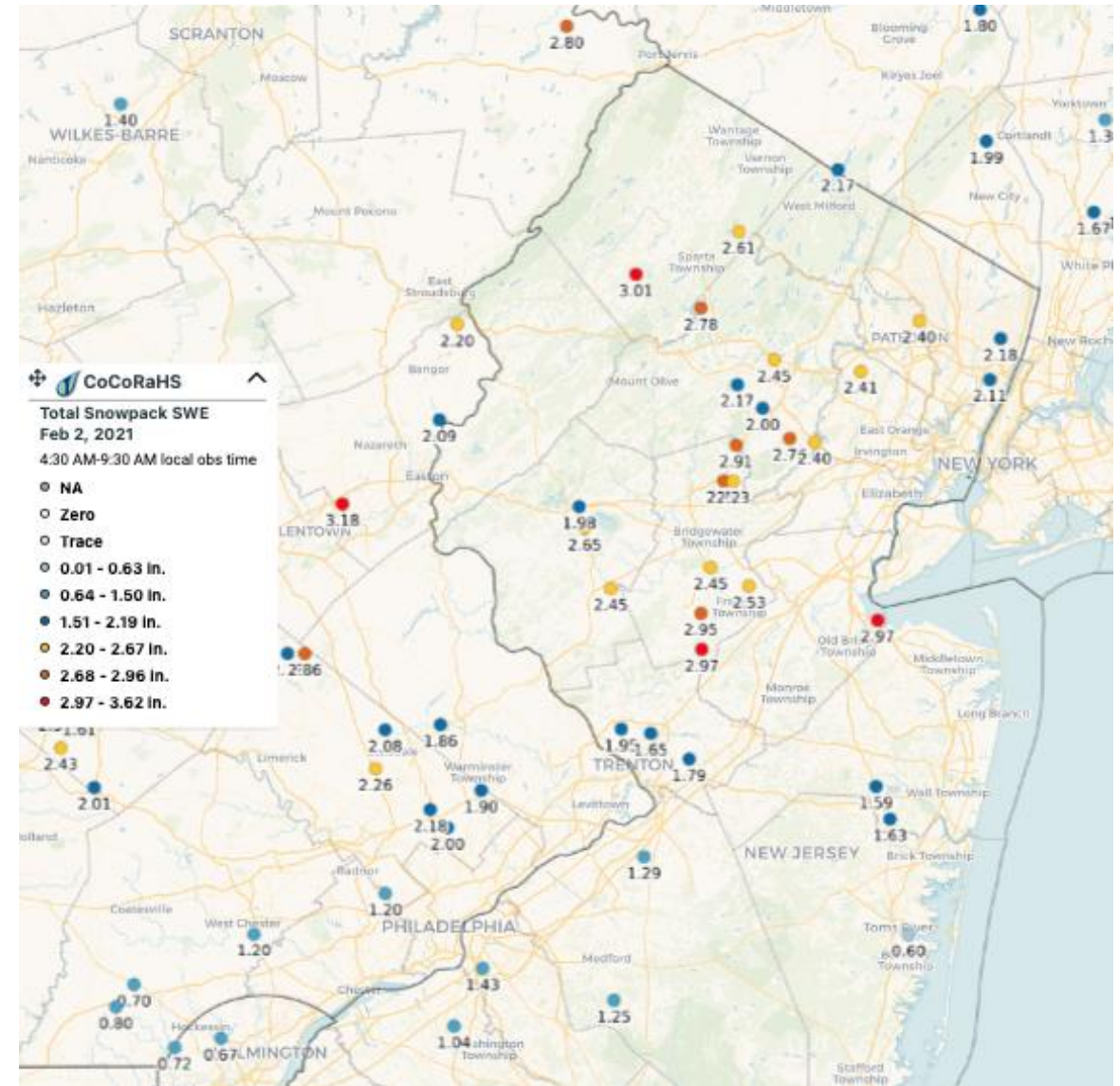


Snow

Pack Depth: February 2, 2021



Pack SWE: February 2, 2021



Thanks

- to our incredible citizen scientists
- to our student interns
- to CoCo Central