Join the Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS) Today!

Reason #1 to join:

- → Your reports are used by meteorologists at the National Weather Service every single day.
- → CoCoRaHS observations help us:
 - Verify forecasts
 - ◆ Calibrate radar rainfall estimates
 - Forecast and warn for flash flooding and river flooding
 - Understand local effects, such as those from terrain and lakes
 - And MUCH MORE!

What is CoCoRaHS?

CoCoRaHS, or the Community Collaborative Rain, Hail, and Snow network, is a grassroots network of volunteers of all ages and backgrounds working together to measure and map precipitation.



CoCoRaHS Observers:

- Must use standard rain gauge equipment (~\$45)
- Report daily
 (ideally)
- Can be ANYONE!

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Reason **#2** to join:

- → Your reports are used by hydrologists!
 - Hydrologists predict streamflows, river levels, reservoir volumes, water supplies, and flood potential.

CoCoRaHS rain and snow observations are extremely valuable because observers report daily and use standard, NWS-accepted equipment.

 Your observations with standard equipment are more accurate than many automated weather stations!

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Reason #3 to join:

- → Your observations are **used by researchers!**
- → Examples of research using CoCoRaHS data:
 - Precipitation observations can be used to understand and predict disease spread in humans, animals, and plants.
 - Mosquito control operations use CoCoRaHS to track where and when mosquitoes will hatch.
 - Some stations have been recording for long enough to be a part of climate change research.

Ē	Google Scholar	cocorahs
2	Articles	About 1,470 results (0.06 sec)
	Any time	[нтиц] CoCoRaHS: The evolution and accomplishments of a volunteer rain gauge
	Since 2024	network
	Since 2023	HW Reges, N Doesken, J Turner Bulletin of the, 2016 - journals.ametsoc.org
	Since 2020	The Community Collaborative Rain, Hail and Snow Network (CoCoRaHS) is a large and growing community of volunteers measuring and reporting precipitation and is making this
	Custom range	growing community or volumeers measuring and reporting precipitation and is making time
	Sort by relevance	
	Sort by date	[HTML] Who received the most rain today?: An analysis of daily precipitation extremes in the contiguous United States using CoCoRaHS and COOP reports
	Any type	PE Goble, NJ Doesken, <u>I Durre</u> Bulletin of the, 2019 - journals ametsoc.org
	Review articles	Every day, thousands of volunteers across the United States report the amount of precipitation they have received in the past 24 hours. This study focuses on the largest of these
	include patents	Save 99 Cite Cited by 4 Related articles All 8 versions
	include citations	Putting the capital 'A'in CoCoRAHS: an experimental programme to measure
	M Create alert	albedo using the Community Collaborative Rain, Hail & Snow (CoCoRaHS) Network
		E Burakowski, CP Wake, JE Dibb Hydrological, 2013 - Wiley Online Library
		In this study, we embrace the CoCoRaHS mission to use low We trained a sub-set of 18 CoCoRaHS observers in the state At less than \$700 per observer, CoCoRAHS data measured
		☆ Save 50 Cite Cited by 12 Related articles All 11 versions
		итиц CoCoRaHS observers contribute to "condition monitoring" in the Carolinas: A new initiative addresses needs for drought impacts information
		K Lackstrom, A Farris, D Eckhardt Bulletin of the, 2017 - journals ametsoc.org
		This article introduces two new tools developed to enhance drought impacts monitoring by
		citizen scientists. In collaboration with the National Integrated Drought Information System (
		☆ Save 575 Cite Cited by 10 Related articles All 8 versions
		[рог] CoCoRaHS (the Community Collaborative Rain, Hail and Snow network)— The accidental network: Evolving collaborations
		HW Reges, RC Cifelli, NJ Doesken 17 th Symposium on, 2008 - media.cocorahs.org
		In its' earliest days, CoCoRaHS was simply a Web-based a full decade to help CoCoRaHS.
		Social and educational support to expand the CoCoRaHS network to surrounding counties
		☆ Save 99 Cite Cited by 8 Related articles All 4 versions №
		CoCoRaHs in Missouri: Four years later, the importance of observations
		JT Moon III, PE Guinan, DJ Snider Transactions of the, 2009 - meridian.allenpress.com
		Here we will compare the CoCoRaHS volunteer rainfall totals to RADAR derived CoCoRaHS
		data was even incorporated by the local NWS to summarize these events. CoCoRaHS



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Reason #4 to join:

- → Your reports are used in the agriculture industry!
 - Farmers, ranchers, agribusiness, and commodities investors track weather predictions and observations. This influences:
 - Crop deployment (when and what to plant)
 - Crop yield prediction
 - Track/predict disease and insects
 - Soil moisture assessments

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Reason **#5** to join:

- → Your reports are used by forensic scientists and the insurance industry
 - CoCoRaHS reports, as official NWS data, may be used to verify storms
 - CoCoRaHS data can be used to:
 - Prevent fraudulent claims
 - Verify hail, heavy rain/snow, or flooding
 - Provide meteorological reconstruction of past weather events for litigation purposes, especially from remarks section of daily reports.

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Reason **#6** to join:

- → Your reports are used by engineers who design homes, offices, roads, and more!
 - Roof drains, slopes, and gutter designs are based on rainfall and snowfall data.
 - More reports help ensure the infrastructure in our communities are made to withstand the stress of our weather.
 - This data is especially important for designing parking lots, culverts, storm seward, drainage areas, bridges, etc.

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Reason **#7** to join:

- → You'll provide valuable weather information for your community!
 - Across the mid Mississippi and lower Ohio Valleys, other accurate precipitation data is far spread out and does not capture all local variations in weather.
 - A higher density observation network provides a clearer picture of what happened!
 - This provides your local community with high-quality local data!

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CoCoRaHS rainfall observations on September 3, 2022 in Owensboro, KY shows the drastic range in amounts from one side of town to the other.

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Reason **#8** to join:

- → You're joining a massive network of volunteers!
 - There are currently over 20,000 active observers!
 - CoCoRaHS was founded in 1998 at Colorado State University after devastating flash flooding showed the need for high-density, high-quality observations.
 - Sponsored by NOAA and the National Science Foundation.

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Reason #9 to join:

- → Taking daily weather observations is a great way to teach kids science!
 - Kids of all ages learn about their environment, how to read a scientific instrument, do data entry, and then can use their own data to do scientific analysis!
 - CoCoRaHS has lesson plans available for teachers to involve the program into their curriculum!
 - Classrooms can submit multi-day reports on Monday to cover weekend precipitation

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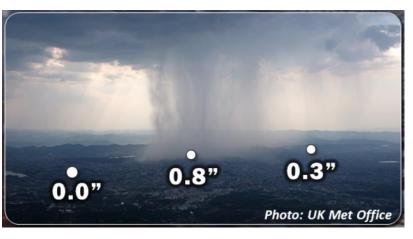
Join the Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS) Today!

Reason **#10** to join:

- → Your reports provide pin-point accuracy we can't find anywhere else!
 - Showers and thunderstorms produce high variable rainfall!
 - While our radar can estimate rainfall, your reports provide "ground truth"!
 - Having this information can lead to better warnings and forecasts!

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Reason **#11** to join:

- → Your reports are official National Weather Service data!
 - We'll use your reports for official "local storm reports" - which are archived in the official weather record.
 - Reports will be shared on our website and with the media - you might just see your report on TV!

Storm Reports

National	Preliminary Local Storm <u>Report</u> Summary National Weather Service Paducah KY 404 PM CDT Thu Jul 20 2023					
TIME DATE		CITY LOCATION				
	Rain 23 M6.76 inch	6 ENE Hazel Calloway	КҮ	36.54N 88.22W <u>Mesonet</u>		
		<u>Mesonet</u> station FW3304 New Concord KY 2 day <u>rainfall</u> total.				
	Rain 23 M6.86 inch	6 ENE Hazel Calloway	КҮ	36.54N 88.22W <u>Mesonet</u>		
		<u>Mesonet</u> station FW3304 New Concord KY 2 day <u>rainfall</u> total.				
	Rain 23 M5.40 inch	1 W Carbondale Jackson		37.72N 89.23W Cocorahs		
		Cocorahs station IL-JK-31 Carbondale 0.7 W 2 day <u>rainfall</u> total.				
	Rain 23 M5.83 inch	5 ESE Simpson Pope		37.44N 88.67W <u>Mesonet</u>		
		<u>Mesonet</u> station DSFI2 Dixon Springs IL 2 day <u>rainfall</u> total.				
	Rain 23 M9.51 inch	1 SSE Bandana Ballard		37.13N 88.94W Cocorahs		
		Cocorahs station KY-BA-3 Kevil KY 4.6 NW 2 day <u>rainfall</u> total.				
	Rain 23 M5.04 inch	1 SSE Cobden Union	IL	37.52N 89.25W Cocorahs		
		Cocorahs station IL-UN-6 Cobden IL 0.8 SSE 2 day <u>rainfall</u> total.				

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Reason **#12** to join:

\rightarrow It's easy and fun!

- Once the equipment (rain gauge) is installed, checking it daily takes just a few minutes.
- Tracking your backyard weather helps you better understand how the weather in your location varies from other places.
- There is a new Data Explorer to use to interrogate and interact with anyone's station

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