

COCORAHS: UTAH'S WATER RANGERS

DR. JON MEYER

CENTER

UTAH

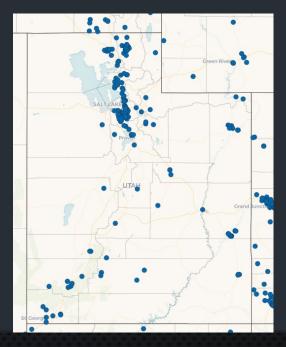
CLIMATE

UTAH DROUGHT MONITORING AND REPORTING WORKSHOP

12/4/2020

WHAT IS COCORaHS? Community Collaborative Rain Hail and Snow Network

CoCoRaHS is a network of volunteers of all ages and backgrounds working together to measure and map precipitation (rain, hail and snow).



Since 1997, 22,000+ observers in all 50 states have taken part in the network, which just surpassed 50 million observations!



Community Collaborative Rain Hail and Snow Network

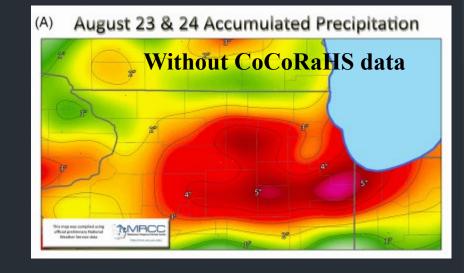
THE SALES PITCH

Why do people love CoCoRaHS?

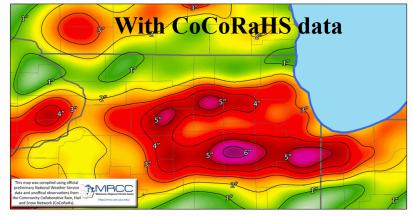
Hassle-free & Commitment-free
 Inexpensive and unobtrusive
 Easy to learn
 Valuable to you and your community
 Fun and Educational

<u>Utah is data sparse and has highly variable precipitation patterns</u> <u>Utah's CoCoRaHS observers provide</u>:

- \checkmark A more high-definition precipitation picture
- \checkmark A voice to data-sparse rural areas lacking "official" gauges







Community Collaborative Rain Hail and Snow Network



THE EQUIPMENT

Inexpensive and durable heavy duty 4" plastic gauge includes removeable funnel and inner 1" graduated cylinder.

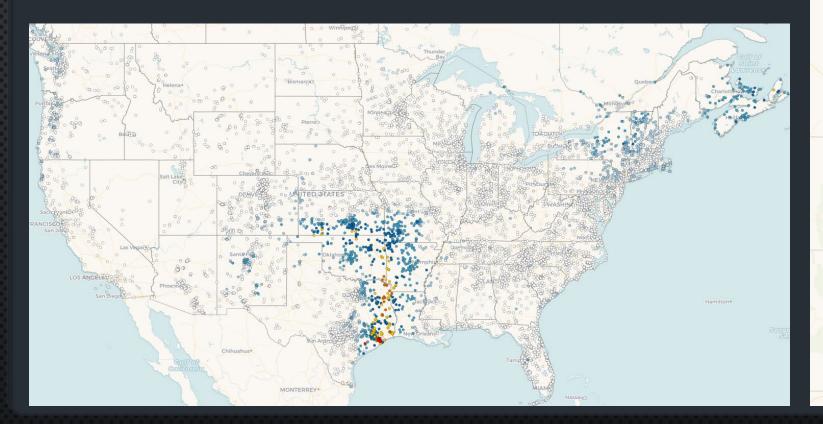


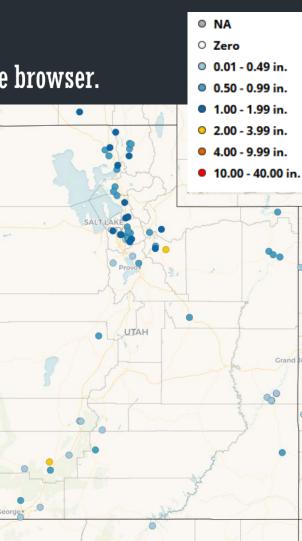
Optional: Snow pad and ruler or hail pad

Sign up: www.cocorahs.org

HOW IT WORKS

Simple observations are taken each morning and reported via mobile app or online browser. Daily observations are immediately mapped and public facing.





Sign up: www.cocorahs.org

BENEFITS & USES

Anyone can immediately and easily access recent daily observations

- No complicated mapping interface
- Minimal delay from observation submission to online mapping (~minutes)
- Mapping tool now allows custom date range for total precipitation

Many scientific uses

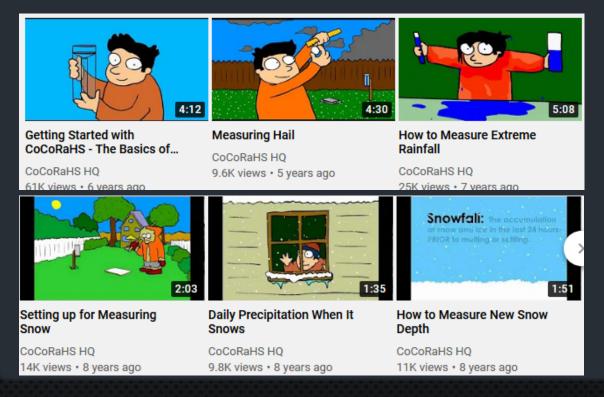
- Water resources managers
- Meteorologists and hydrologists
- Emergency Managers
- USDA
- Mosquito control

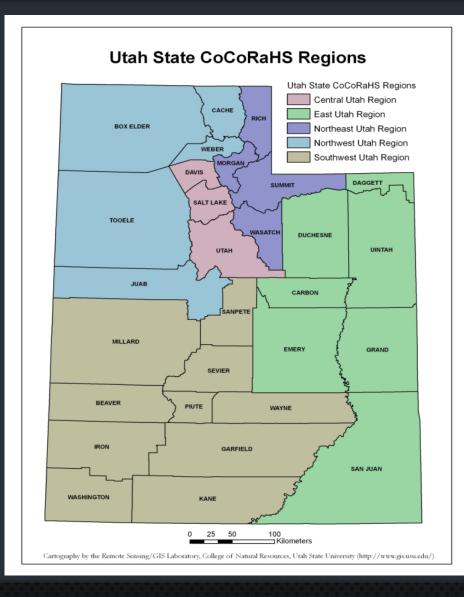


Community Collaborative Rain Hail and Snow Network

TRAINING AND SUPPORT

Online training resources are fun and easy to follow and a network of state and regional coordinators across Utah are available





Sign up: www.cocorahs.org

CONDITIONAL MONITORING

An observer's knowledge of their local climate and weather can be more informative than a simple daily weather observation.

Conditional monitoring allows observers a means to qualitatively assess their local conditions based on the condition of nearby plants, trees, streams, soils, etc.

Such reporting is invaluable to droughtstricken, data-sparse regions.

Condition	<u>Monitoring Re</u>	eport Fo	<u>orm</u>		Submit Data	Reset		
Station Number: UT-CH-2								
Station Name : Hills 0.9 SW								
Condition monitoring reports are submitted on a regular (weekly, biweekly, monthly) basis to share information about the effects of local precipitation on the environment and society. By submitting reports on a regular basis, you create a baseline to see change through time, such as seasonal differences or changes caused by more or less precipitation. Please refer to the <u>Condition Monitoring</u> training slide show for more information. * indicates required field Report Date *								
Condition Scale Bar More information on the scale bar Clear Scale Bar								
Severely Dry	Moderately Dry	Mildly Dry	Near Normal	Mildly Wet	Moderately Wet	Severely Wet		
0	0	0	0	0	0	0		
Description								
	vide a descripti ood, your activi		w dry, normal o	r wet co	nditions are aff	ecting you,		

Community Collaborative Rain Hail and Snow Network

SOIL MOISTURE MONITORING

For the most dedicated observers, CoCoRaHS provides an interface to submit soil moisture observations.

More time and labor intensive while requiring additional hardware and household items so not for everyone.

Valuable to provide means to assess how much rainfall is soaking into soil.

Soil Moisture Report Form	Submit Data	Reset							
Station Number: UT-CH-2									
Station Name : Hills 0.9 SW									
* Denotes Required Field									
12/3/2020 🛨 *Observation Date @									
AM ~ *Observation Time 2									
Observation Notes: (This will be available to the public)									
]						
		.:							
Information about where the sample was taken									
Distance from previous sample in meters:									
Is the land irrigated? ○Yes ●No									
Did you begin a new row? OYes ONo									
Soil Samples									
Depth Soil Type Weight E Drying (g			nt After J (grams)						
0-2" Select Soil Type V									
7-9" Select Soil Type V									
		Submit Data	Reset						

Sign up: www.cocorahs.org

How can you become part of the Utah network?

Five easy steps

1-Simply sign-up on the CoCoRaHS web page www.cocorahs.org 2- Obtain a 4" plastic rain gauge (info available on web site) 3- View the "training slide show" or attend a training session 4- Set-up the gauge in a "good" location in your backyard 5-Start observing precipitation and report on-line daily

Community Collaborative Rain Hail and Snow Network

EVERY DROP COUNTS THANK YOU!!

EMAIL QUESTIONS TOJON.MEYER@USU.EDUSIGN UP ATWWW.COCORAHS.ORG