



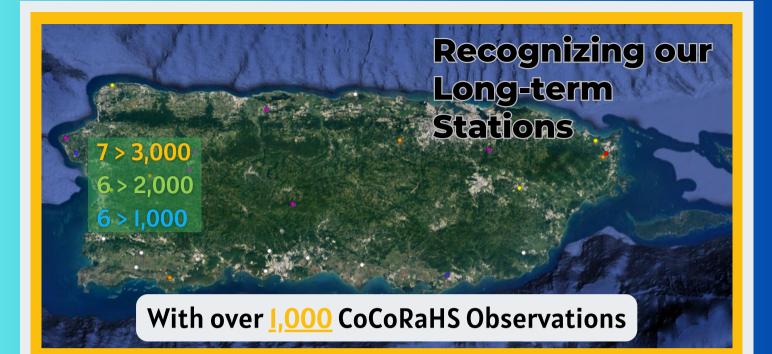
AND MORE ...!



HOW TO REGISTER, INSTALL, AND MORE!

Step by Step Guide

YouTube Video



		-		
Station Number	Station Name	Daily Obs Count	Day of Creation Date	Day of Last
PR-RN-4	Rincon 2.8 SE	3248	06/09/2014	05/08/2023
PR-CR-1	Cabo Rojo 0.8 SE	3118	05/31/2014	05/11/2023
PR-RN-3	Rincon 1.5 N	3098	06/05/2014	05/12/2023
PR-AL-3	Aguadilla 5.5 NNE	3086	06/29/2014	05/11/2023
PR-AC-1	Arecibo 5.2 ESE	3049	06/19/2014	05/12/2023
PR-PC-4	Ponce 5.0 NNW	3041	06/16/2014	05/11/2023
PR-MY-5	Mayaguez Arriba	3025	01/25/2015	05/12/2023
PR-LJ-2	Lajas 2.2 E	2987	06/10/2014	05/12/2023
PR-TB-1	Levittown 1.0 SE	2923	05/09/2014	05/12/2023
PR-PC-2	Ponce 3.2 NNE	2894	06/01/2014	05/09/2023
PR-JN-1	Juncos 0.3 WSW	2866	05/22/2015	05/12/2023
PR-JD-2	Juana Diaz 2.9 SW	2238	03/14/2017	05/12/2023
PR-LM-1	Las Marias 9.6 ESE	2116	07/10/2016	05/12/2023
PR-LR-2	Lares 1.6 SSW	1716	07/06/2016	05/12/2023
PR-GM-2	Guayama 1.1 W	1611	04/16/2018	05/12/2023
PR-QB-1	Quebradillas 1.6 SE	1495	04/08/2018	05/10/2023
PR-LR-5	Lares 2.0 NNE	1345	05/21/2019	05/11/2023
PR-MC-1	Moca 0.3 S	1201	06/18/2016	05/12/2023
PR-TB-5	Campanilla 0.3 S	1009	08/09/2020	05/06/2023

A giant round of applause!!



Did You Know?

COCORAHS CELEBRATES 25 YEARS DURING 2023

CoCoRaHS officially began on June 17, 1998. With a few observers along Colorado's Front Range, we had no idea that the network would become what it is today, with over 25,000 active observers in the United States, Canada, Puerto Rico, the U.S. Virgin Islands, Guam and the Bahamas.



A history of the rain gauge

When you look at a rain gauge, do you really appreciate the thought that has gone into it? I was surprised to discover quite how much work went into its development, and think it important that this early work is not forgotten.

a supportant task task task work is not registrat. Originally investigated in the Orisien the rain gauge wax reinvented much later in Wistern Europe. There is also evidence to suggest that a form of rain gauge was used to monitor arisingfil for riggistran purposes in several parts of Jolka as early as the 4^o cursury rei. Research indicates that around solido rain gauges were being used in Palestine to measure rainfall, again for agricultural purposes. In 1910, Dr Y Wada, Disector of the Korean Meteorological Observatory, published an article about 15th century Korean rain gauges.

ram gangts. 'In the 24" year (1442) of the reign of King Sejn, the King caused a brenze instrument to be constructed, in order to manave the raise. This is a use (20 ord) is depth out (14 ord) in diameter, studiego on a plike. The instruments has bren installed at the Observatory and easts time that raise fails, the efficial of the Observatory assures the height word is scale, and make it known to the King. These internaness over distributed in the provinces and causans, and the reads of sets to be course.'

Select image tiss and the substitution of the interview of the interview and are very interview to read about

First rain gauges in Englan One of the attlete gauges recorded can Christopher Wire, the architectural greas which empaysed is self. GH as a certain high tails was that 'upper backet' mechanism in a rain ga-space of land...' is it remarkable that a valuant backet mechanism is will used in today's automate

backet mechanism is still uned in today's automated by In 1663. Were produced a recording gauge that worked by bringing a succession of constances under a collecting funnet, one every hour H. abadonced this like when he realised that the collected rais would largely exposure before it might be measured. However, the basic ide particular and is found, in slightly refined form, in a book of machines by Jacob Leopold in 1726. This was driven by a discontinuous marino provided by a one-southed gara, as shown opposite. Destingtion of the strength of the strength of the strength of the production of the strength of the strength of the strength of the production of the strength of the str

Development continued throughout Europe, but the rain gauge were of tuch disparate size, shape and mechanism, that comparison between readings over large areas were difficult to make.

4 Network

THE HISTORY OF RAIN MEASUREMENT

rying to find the history of rain measurement is somewhat similar to finding the proverbial needle a haystack. There are many "most likely's" or "probably's", and few certainties. For instance, he might say the Mayan Indians most likely took measurements, or that measurements were obably taken by early scientists in Greek laboratories. However, finding actual instances of antitative measurements that were recorded is very difficult.

his book Meteorologica, Aristotle (340BC) certainly presented topics such as clouds, mist, rain, now, etc, but did not mention the measurement of precipitation. In the ancient times, man depende pon atmospheric conditions of rain and drought because they were farmers and hunters. If it didn't in, they didn't eat! However, measuring the rain and keeping records of it was apparently out of e quest

ristotle's ideas were almost unc true science in the Western We owever, some research indicate measure rainfall for agricultur

he earliest quantitative rain gau ved from 1397 to 1450. One o nly did he invent a rain gauge, at language.

andardized container about 30

Select image cend of the 16th century. re being used around Pales to read about Corea called King Sejong who

The begin



ing of meteorology a

e decided that instead of digging into the rain visture, it would be better to have a stood on a pillar to measure

e rainfall. His standard of me measurement. the containers were to help illagers determine their potent measurement. So these standard containers were distributed to each village. The gauge was invented in e fourth month of 1441 according to records.

He ordered books to be written about agricultural farming methods, medical dictionaries, and cupuncture therapy. King Sejong promoted art, music and science in his country. Koreans still elebrate King Sejong day, and in Seoul there is a museum and library named after him.

the can go to find many more very interesting weather people at ww.islandnet.com/~see/weather/history on the internet.

he "tipping bucket" rain gauge invented by Christopher Wren in Europe around 1661, used the andard of weight, or sometimes volume of the liquid precipitation. (Assuming the standards then ere similar to the standards now, one gram of water is equal to one cubic centimeter of volume of ater.) We need to remember, however, the metric system as we know it did not exist then. They ost likely used something similar. This "tipping bucket" idea is still used in many of the automat ctronic gauges today.



the problem of standardisat of gauges for use in a netwo When he issued his English Rainfall 1860, he had to organise a body of observer and determine which instru es and methods w used. In 1863, at Calne in tshire, a set of gauges v blished, designed to te

up an elaborate set of gauges on Boston reservoir at Rotherham, ng the effects of elevation, these f wind direction and the angle of In 1865, a Mr R Chri the flat roof coverine of the B Select image

d TE Crallan began obse of uniform aperture but composed e year, he handed these over to the enthusiastic observer of Strathfield ing, Eventually, Mr Symons' carly

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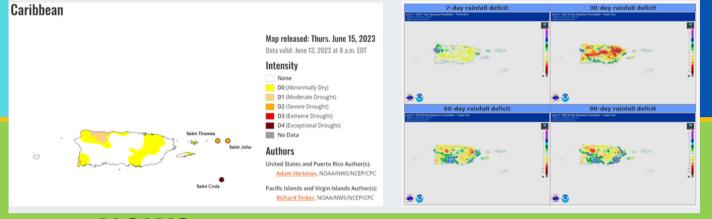
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Drought Monitor & NWS Climatology

Monthly Climate Report



HOW? The importance of your data & how it is used.

Puerto Rico needs more observers in the central region and the island of Culebra. If you have any family or friends in these areas talk to them about CoCoRaHS.

Help us Recruit!







A Visit from Henry Reges CoCoRaHS U.S. National Coordinator

During May 2023, we received a visit from Henry Reges, the CoCoRaHS U.S. National Coordinator who was able to experience our island for the first time. He spent his time enthusiastically helping to recruit and retain observers. Henry visited various towns including San Juan, Carolina, Luquillo, Mayagüez, and Jayuya. Among his visits he had the opportunity to go to the EcoExploratorio to provide additional information to the museum and public in general. You can see the <u>Facebook Live</u> <u>here</u>.

Henry and the WFO San Juan staff was able to discuss various aspects about our initiative to recruit and retain volunteers. The knowledge and ideas he shared will be a great advantage for CoCoRaHS Puerto Rico.







Are you aware? Webinars and Reports

COCORAHS WXTALK WEBINARS

CoCoRaHS WxTalk consists of a series of monthly one-hour interactive Webinars featuring engaging experts in the fields of atmospheric science, climatology and other pertinent disciplines. These easy to follow presentations are live and approximately sixty minutes long. The audience is given the chance to submit questions which the experts answer live on the air.

	TOTAL PRECIPIA	TION SUMMARY	THIS
STATION		5/21/2023 STATION	INCHES
PR-AL-3	12.8	PR-FJ-5	24.37
PR-AC-1	15.52	PR-FJ-6	26.45
PR-AC-3	28.45	PR-GC-2	4.36
PR-BY-I	35.77	PR-GM-2	18.1
PR-BY-2	25.5	PR-GM-3	7.11
PR-CR-1	12.96	PR-HM-2	2.53
PR-CR-4	9.86	PR-JY-I	28.29
PR-CR-5	6.39	PR-JD-2	14.42
PR-CG-3	1.31	PR-JN-I	24.69
PR-CL-6	4.04	PR-LJ-2	14.73





Best CoCoRaHS PR Photo Contest Precipitation

THE TOP 3 CONTESTANTS



Congratulations & Thank you for sharing!

Top 3 contestants will be receiving a token of our appreciation.

CoCoRaHS Headquarters Sends its Greetings and Thanks to our Puerto Rico Observers

Greetings from CoCoRaHS headquarters located at Colorado State University in Fort Collins, Colorado, We are so happy to have you as part of our rainfall observing team. Your observations make a difference not only to the National Weather Service, but to so many other users of your data. Recently, I visited Puerto Rico and was amazed by its beauty as well as the friendliness of the people there. So many were very kind and extremely helpful. I can see why you live where you do. One thing I also noticed was the amazing variability of precipitation from passing showers, where it would be wet on one side of the road and dry on the other. Isn't that the way in the tropics! And that's why we need and appreciate you so much to capture that variability and help fill in the precipitation observing gaps over the commonwealth. The more observers we have on the island the better the picture of what fell where and how much fell from the sky above (feel free to recruit a family member or friend). The longer you participate and observe the better handle we have on the spacial variation of precipitation there.



There are two other requests I have to ask you. 1) if you see unusually heavy rainfall falling, please file a "significant weather report"

(https://cocorahs.org/Admin/MyDataEntry/IntensePrecipReport.aspx) in real-time. These go directly to the National Weather Service and provide life-saving information that could lead to the issuance of "flash flood warnings" to those in danger; 2) if once a week you might find five minutes file a "condition report" (https://cocorahs.org/Admin/MyDataEntry/ConditionMonitoringReport.aspx), most likely on the weekend, letting us know what the condition of your surroundings look like . . . are they severely dry, near normal, moderately wet? Let us know if you can. It will help in accessing oncoming drought. https://cocorahs.org/Content.aspx?page=condition

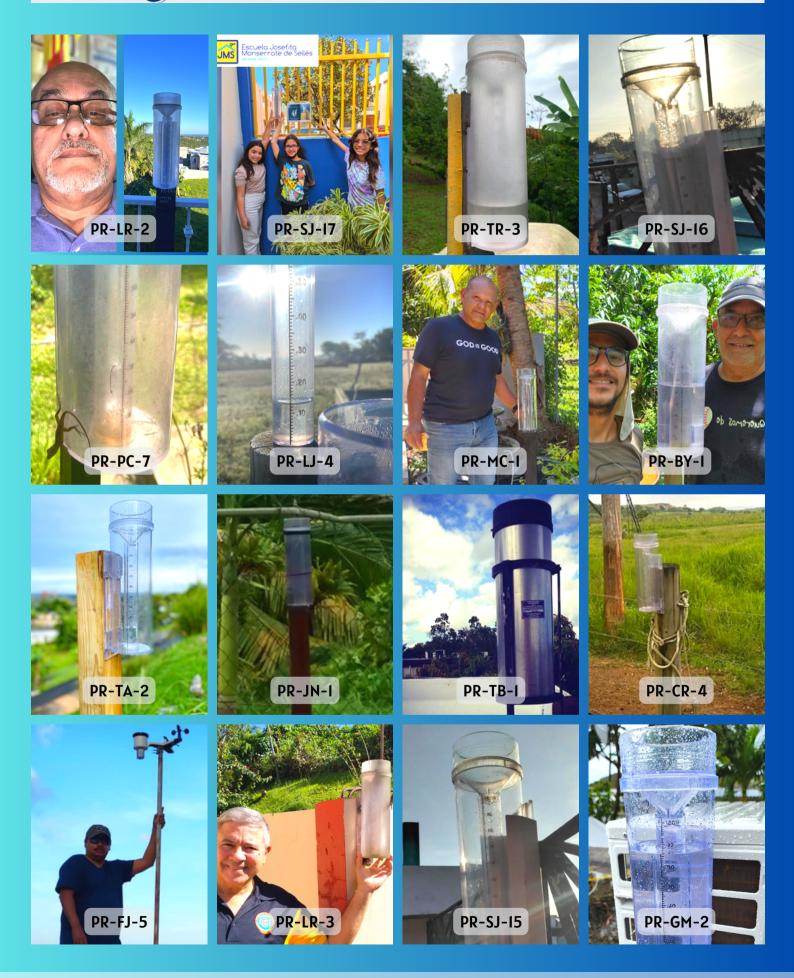
Finally I would like to thank my friends at the National Weather Service (especially Xiomara, Rosalina and Odalys), as well as our new partners at the Puerto Rico Climate Center (Hector Jimenez) at the Univ. of Puerto Rico-Mayaguez for their hospitality shown to me as well as their dedicated service to CoCoRaHS to help make us all better Citizen Scientists.

From Colorado's Front Range, Henry



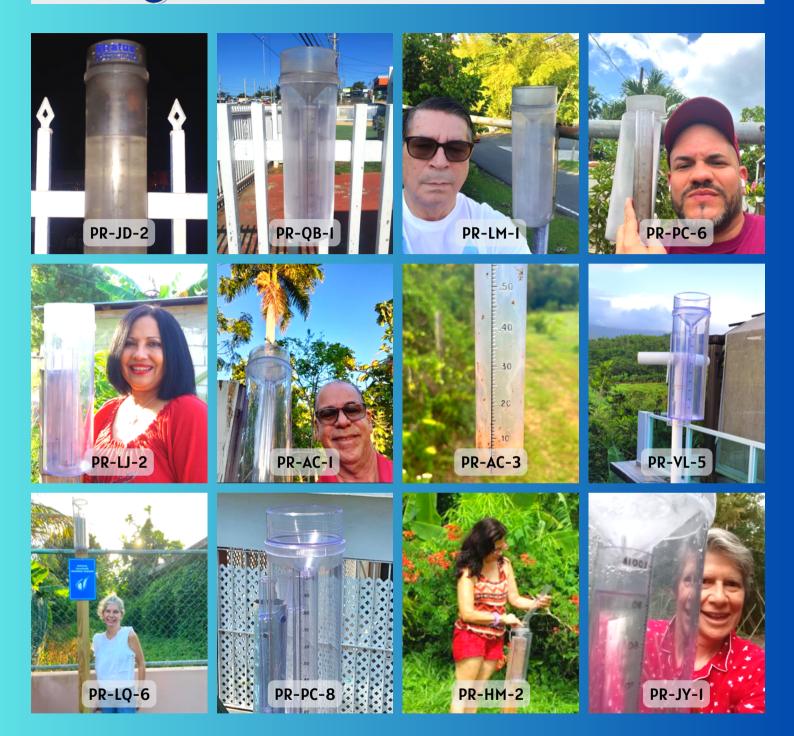








Stations and Observers



Thanks to each and every one of you for being part of





AFEW WORDS FROM THE NEW METEOROLOGIST IN CHARGE OF THE WEATHER FORECAST OFFICE OF SAN JUAN, PUERTO RICO



San Juan, Puerto Rico



Hi CoCoRaHS Observers, I am Ernesto Rodriguez the new Meteorologist-In-Charge of the National Weather Service Weather Forecast Office San Juan. I have seen the importance of rainfall observations since 2008 when my career began in San Juan. Puerto Rico exhibits a range of microclimates due to its geographic location in the northeast Caribbean and topography. As a result, it is important to have a good network of rain gauges to monitor drought, flooding, changes in precipitation patterns as well as long-term trends. Water management is also crucial for the people in Puerto Rico, as it affects agriculture, irrigation, and drinking water consumption. All in all, the information that COCORAHS observers collect will help in many areas of planning, monitoring, and longterm climate change studies. Therefore, we all recognize the value of your effort as citizen scientists to provide the critical data needed for the sustainability and resiliency of our islands in the northeast Caribbean region. Thank you!

