



2°C Global Citizen Science Climate-Observing Network



MISSION

Build a global community of citizen scientists who gather and share climate data that support innovative climate solutions.

VISION

Global climate data coverage supporting climate change solutions.

ABOUT

Structure: Nonprofit 501(c)(3)
Founded: 2019
Bellingham, WA
Asheville, NC
St Petersburg, FL
www.2DegreesC.org

BACKGROUND

2°C is climate & ocean experts, outdoor recreation professionals, and partners who recognize the urgency in finding scientific solutions to climate change. That those solutions begin with good climate data, and that putting low-cost, high-quality observing technology in the hands of the people will provide those data.

DIRECTORS

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We have a brief window of opportunity to change the direction of climate change.

Right now, we have good climate information for cities and other urban areas, but we don't have detailed data about the weather and climate environment in remote places, to understand how climate change is affecting them.

2°C cares about the people and biodiversity that fall in the gaps outside of the areas currently served by the existing network of climate observations, which are mostly found in cities and other urban areas. Without these hyper-local observations, we cannot understand climate change at the scale of a community or ecosystem, and this puts people, assets, and these critical ecosystems at risk. Our initiative connects recreating individuals, and those working outdoors - to science, education, and activism, through the collection of climate data from the remote areas they visit.

We fill in those missing pieces by collecting climate data from remote places around the world, using special sensors attached to recreating people and sharing them with scientists. With low-cost, automated sensor technology attached to citizen scientists, we can bridge the climate data gap and enhance the resolution and accuracy of climate data by sharing them with scientists worldwide. The climate data collected by outdoor recreation enthusiasts can be used to improve ecological models, calibrate satellite data, and support science-based conservation responses.

2°C has developed low-cost terrestrial and ocean IoT sensor platforms that are easy to use, and the climate observations generated are shared for free with science and education to help reduce climate uncertainty in those areas, which can lead to better conservation efforts and protect these places. Our Wavelet ocean sensor project has been endorsed by UNESCO as part of the Ocean Decade. Partnered with MarineLife 2030, our ocean data can be used to understand species migration occurring because of climate changes occurring in the ocean.

Our initiative is global by design, addressing data gaps on land and in the ocean, and can provide critical information for vulnerable communities and ecosystems, and our solution is cost-effective and scalable, making a big impact on a small budget. Setting up traditional weather stations and sensors is expensive with the maintenance of them further adds to the cost, but the 2°C Initiative offers a clever and affordable alternative. Using citizen scientists like us, we can collect large volumes of data at a fraction of the cost, from areas that have inadequate coverage, where data are expensive to collect, and in places that are often difficult to access, making it a cost-effective and scalable way to help.

At 2°C, we know that Interest leads to activities and activities lead to outcomes. We hope we can work together for a healthier planet.



**Healthy Planet,
Healthy People**



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