if you've been watching this series you know that NASA has scientists posted all over the world studying Earth's frozen regions. We've got people exploring ice sheets, glaciers, permafrost, sea ice, snow, and even ice on other planets, but even our top scientists need a little backup sometimes.

[Music]

[Applause]

[Music]

do you like going outside to do science?
y-yeah what's your favorite part in this bonus episode of cryosphere we're following the micro explorers that are helping NASA collect data from their own backyard you think it's gonna be here's the idea students construct a frost tube that gets put into a hole in undisturbed and uncompacted soil during the cold months students will measure the depth at which water in the frost tube freezes indicating that the surrounding soil has frozen this is one of many citizen science projects facilitated by globe
the Global Learning and observations to

benefit the Environment Program it's a worldwide program that so far has collected over 130 million measurements for more than 10 million students in 113 countries are you scientists these measurements are added to a massive worldwide database that's free and open to the public globe connects my students with the rest of the world through science and looking at climate change and how it's affected in the future globe teachers like Terry are transforming the way kids see
science and how they'll respond to

changes in their future environment a

base

[Music]

actually we were so impressed for the

decided to show their work to the

scientists in the original NASA

explorers craft fair series and they had

a couple things to say this is really

really cool hey students from Miss

Terry's class I just got to see your

video I was so impressed and you guys

were braving the conditions of the snow

and and all the crazy stuff to go and
learn more about the permafrost ends

where the water layer is right outside

your school that looked incredible it is

so exciting to see you guys and girls

doing such great work as we watch our planet change over time hey there young scientists looks like you guys are doing some amazing things remember to keep warm and take notes and also stay curious

oh my god this is awesome I love seeing the enthusiasm of these kids they're outside it's obviously really cold but everyone is so excited to be out there
making measurements for NASA that's what

that's what it cool because it's the

right science is so fun and I really

hope that to continue believing in that

the best piece of advice I ever got was

whatever you do do your best and from

all of us here at the Jet Propulsion

Laboratory

remember dare mighty things so keep up

the great work make sure that you're

having fun no matter

that's the key thing about pursuing a

career in science make sure it's

something that you love and I'm really
impressed so hopefully we'll take the

lessons you're learning and apply them

when we explore our solar system

[Musica]