



The ENSO Student Research Campaign

From Data Collection to Research

Webinar 5: January 17, 2016

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Brian Campbell, ENSO Campaign Lead

You ARE Doing Research!

Did you know that by collecting GLOBE data with scientific instruments, you are doing research?

Did you know that when you look at your data and determine what it means, you are doing research?

There are different levels of research and we love that you want to take yours to the next level?



Science Fairs and International Science Symposia

- Students will be encouraged to enter their local, regional science fairs and the 2017 GLOBE Virtual Science Symposium
- With GLOBE, students learn the practices of science through hands-on investigations in their own communities, sparking their curiosity and interest in science. This often leads to inquiries that help solve real-world problems and further understanding of our global environment.
- We will be promoting this event as a way for ENSO Student Research Campaign students to take their data to the next level.
- We will have webinars that focus on having students understand what their data means and how best use it in their own research.

<https://www.globe.gov/news-events/globe-events/virtual-conferences/2017-international-virtual-science-symposium>



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ENSO Student Research Campaign Metrics & Data Counts – Updated in advance of each Phase II Webinar

Global Data – Data Entry from Around the World

Data Collected by Ann Martin, SSAI

Phase II Only: September 21, 2016 – January 13, 2017

Protocol	Precipitation	Air Temperature (Standard/ Noons / Current/Max)	Surface Temperature (Standard/ Noons)	Soil Temperature (Standard/ Noons / Dailies)	SMAP Soil Moisture	Biometry – proxy (biomass, trees, veg cover, greenings, land cover)	Biometry Canopy & Ground Cover	Total
Sites	314	581	136	164	45	60	Not available online	1,300
Observations	14,537	622,823	4,322	91,277	586	634	Not available online	734,179

Notes: The data counts listed above include some observations from automated weather stations, especially for precipitation and temperature protocols. The ENSO Student Research Campaign includes the biometry canopy & ground cover protocol, but this data is not retrievable via the GLOBE website. In the table above, other biometry protocols have been listed as a proxy.

Phase I & Phase II: March 1, 2016 – January 13, 2017

Protocol	Precipitation	Air Temperature (Standard/ Noons / Current/Max)	Surface Temperature (Standard/ Noons)	Soil Temperature (Standard/ Noons / Dailies)	SMAP Soil Moisture	Biometry – proxy (biomass, trees, veg cover, greenings, land cover)	Biometry Canopy & Ground Cover	Total
Sites	474	931	190	248	104	308	Not available online	2,255
Observations	38,478	1,698,950	8,111	305,296	1,671	5,824	Not available online	2,058,330

Notes: The data counts listed above include some observations from automated weather stations, especially for precipitation and temperature protocols. The ENSO Student Research Campaign includes the biometry canopy & ground cover protocol, but this data is not retrievable via the GLOBE website. In the table above, other biometry protocols have been listed as a proxy.

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