

New Zealand



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Function: Country Coordinator (CC)

Organisation: Office of the Prime Minister's Chief Science Advisor

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Cooperating organizations:

Office of the Prime Minister's Chief Science Advisor
US Consulate and Embassy
(Ministry of Education)
(Science Learning Hub)

Participating schools:

223 schools currently listed; 113 not yet reporting, 108 have reported in the past. Out of 223 schools identified on the GLOBE website and 70 teachers, there were 82,757 observations made.

The only active school at present remains as:
Opunake High School (16,631 observations)

Funding by:

None (bar support for my time and activities from my office. Note that this support will cease when my role finishes 31 Jan 2020).

Aside from time allowance made within my role to carry out Country Coordinator duties, there is still no direct funding allocated for GLOBE within New Zealand. I have had multiple meetings with the Ministry of Education, who previously supported GLOBE in New Zealand. I am continuing to discuss with them and other

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organisations the possibility of a small financial contribution to be able to host local trainings, in order to create GLOBE uptake by educators and schools within New Zealand.

GLOBE protocols used in country:

A range covering Atmosphere, Hydrology, and Pedosphere protocols, with Atmosphere protocols the most used, followed by Hydrology.

Number of schools currently reporting data (2019):

Opunake High School; 16,631 observations)

Description of the program in your country and recent activities in 2019:

Regional Meeting:

One representative (Victoria Metcalf) attended the 2018 RM in Seoul, South Korea.



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Engagement with GLOBE NZ teacher community and activity:

- I have used the GLOBE site to send update emails out to New Zealand teachers registered with GLOBE, highlighting current campaigns, opportunities for involvement in meetings etc.
- I have used my own networks over the past two years to inform educators about GLOBE and encourage them to get involved and do the online training

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etc. That especially involves letting the Royal Society and the Science Learning Hub know of opportunities so that they can promote them.

- 223 schools are currently listed (this is from school status report data vs. 213 schools listed under Country at a Glance <http://www.globe.gov/web/new-zealand>); 67 teachers; 113 schools not yet reporting, 108 schools have reported in the past. Only 2 schools has reported in the last 3 months (2019). There have been 85,994 observations overall (as of end of November 2019). <http://www.globe.gov/web/new-zealand>. There are 371 untrained observers (registered with the GLOBE Observer App).
- There are eight GLOBE trainers in New Zealand, although only four of these remain active to my knowledge. Strong enthusiasm for lifting GLOBE's presence in New Zealand has come within the last 18 months from four of these GLOBE trainers (covered below).

Here is the status of GLOBE Teachers and GLOBE Observers managed by your organization New Zealand for the month of November 2019:

Member Status	Number	Description
Account Requested	0	Teachers who have requested to join GLOBE and are waiting for approval.
Account Approved	16	Teachers whose accounts have been approved but have not started the training process.
Pre-Candidate	0	New teachers who are registered for an upcoming workshop.
Candidate	0	New teachers who are registered for an in-progress workshop.
Newly Workshop Trained	0	Teachers who have completed training at a workshop in the last 30 days.
Newly eTrained	0	Teachers who have been eTrained in the last 30 days.
GLOBE Members	70	Fully trained GLOBE Teachers.
Untrained GLOBE Observers	371*	GLOBE Observers in your organization who are untrained (i.e. - have not completed eTraining). These are citizen scientists in your country/organization who have registered with the GLOBE Observer app.

***GLOBE Observer App 371 (up from 260 in May 2019); increase due to promotional activities at events (see below)**

US Embassy and Consulate links:

I have continued to engage about GLOBE with a number of staff at both the US consulate and embassy, and discussing how they can provide support to help lift GLOBE activity in New Zealand. These include Katelyn Choe (Consul General), Ted Danowitz (Political-Economic Officer) and Philip McKenna (Political-Economic), Lauren Murray and Natalie Wilkins (Public Affairs), and Mara Hosoda (Science).

We have established a number of activities that we are currently working on or have completed:

- Applying for an Embassy grant to enable us to hold a GLOBE training session, including possibly CMT, sometime in the first half of 2020 (current date is the last week of February);
- GLOBE presence (stand) at the ChristchurchNZ (regional development and tourism agency) NASA SOFIA open day July 20, Christchurch Airport (**photos below**);
- GLOBE presence (stand) at the ChristchurchNZ (regional development and tourism agency) Explore Antarctica open day October 5, Christchurch CBD (**photos below**);
- Cross promotion of GLOBE with other NASA activities and linking GLOBE activities to other NASA activities: e.g presence of SOFIA plane, IAP speaker programme (we can request scientists), visiting distinguished scientists or astronauts (e.g. 30 Oct, Dr Anna Fisher (former NASA astronaut)) (**photos below**);
- Linking to the Royal Society (informal links now in place via Jessie McKenzie (education));
- Potential support letter from the Embassy to the Ministry of Education regarding GLOBE.

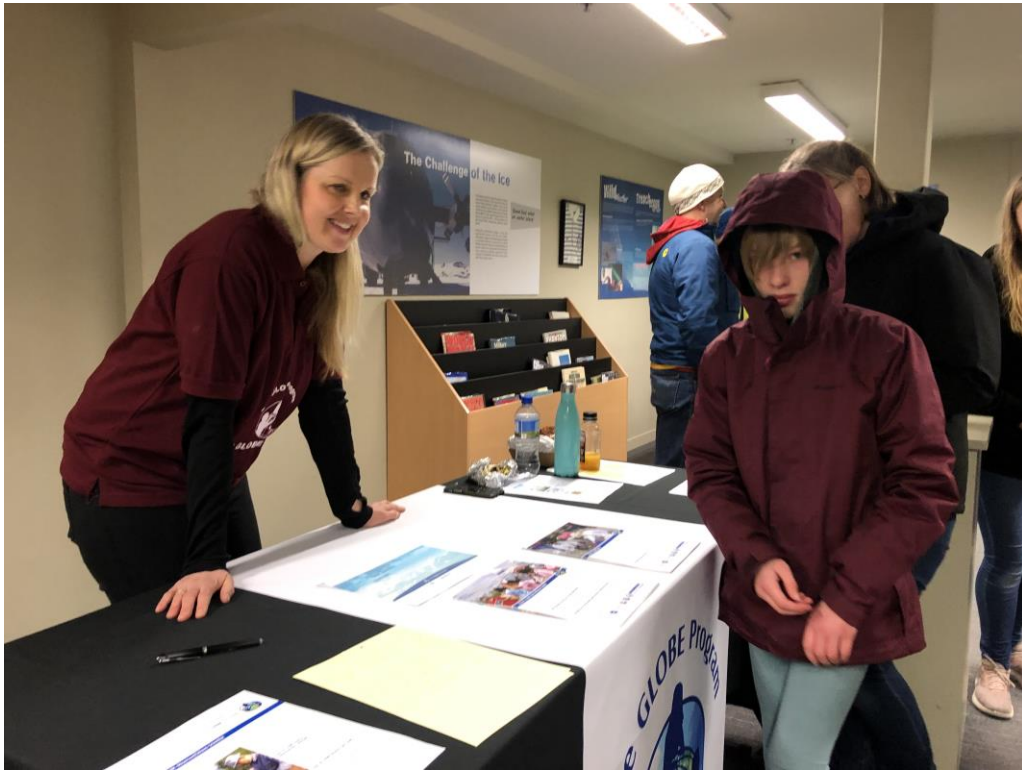
GLOBE stand at NASA SOFIA Day, July 20, Christchurch.

4,000 people came through and hundreds of those came past the GLOBE table. I collected contact details of interested teachers etc, and also let people know how they can do citizen science using the GLOBE Observer App. We will use the contact details to notify teachers of upcoming GLOBE opportunities. We have printed a GLOBE table top banner and I provide copies of various GLOBE information flyers, including cloud charts that people can take away with them. The printed material is proving very popular.

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GLOBE stand at Explore Antarctica Day, Christchurch CBD (Cathedral Square), October 5, Christchurch.

Hundreds of people came to the event. I collected contact details of interested teachers etc, and also let people know how they can do citizen science using the GLOBE Observer App. There was a treasure hunt related to the event that saw all the kids coming into the GLOBE tent. I also had cloud and weather related, and mosquito colouring in activities for the kids, as well as flyers about GLOBE and cloud identification charts.





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US Embassy A Future for Women in STEM panel, Oct 30, Christchurch

I was an invited panellist at this event, organized by the US Embassy. I explained my connection to NASA and the GLOBE program and let people know about the GLOBE Observer App.

A Future for Women in STEM

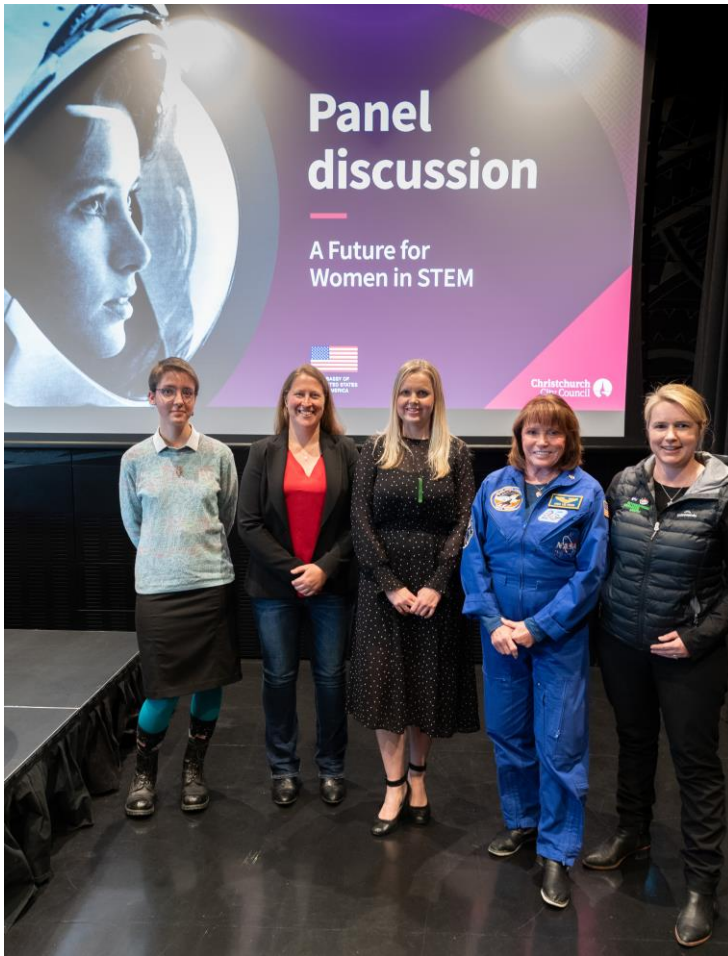
A panel discussion

				
Dr Anna Fisher Former NASA astronaut	Dr Victoria Metcalf National Coordinator Participatory Science – Office of the Prime Minister's Chief Science Advisor	Rose Swears 2019 NASA International Internship Recipient	Dr Sarah Kessans Research Fellow at the University of Canterbury	Miranda Satterthwaite Education Manager International Antarctic Centre


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Government meetings:

Several meetings have occurred with representatives within the Ministry of Education. Discussions are ongoing. Next steps arising from these meetings include:

- Finalizing a draft briefing document for the Ministry and a formal request for their support via promotion and funding;
- Liaison with the Ministry over drafting a story on GLOBE for the Education Gazette (sent to all schools in New Zealand);
- Contact the New Zealand Association of Science Educators regarding support for GLOBE. This has occurred and I have met with them. They are looking at assisting in publicizing GLOBE opportunities to their network.

New Zealand strategic planning:

- Murray Palmer (GLOBE trainer), and John Lockley (former CC), have taken on the Assistant Coordinator role.

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- A GLOBE New Zealand strategic team is in place, with membership comprised of: four GLOBE trainers (including Murray Palmer, as well as Elise Smith, Andrew Innes, and Adie Leng), along with representatives from the Science Learning Hub (government funded online education resource provider administered by the University of Waikato; representative Andrea Soanes), the Royal Society (science education representative Jessie McKenzie), and environmental educators and scientists. This group has met a couple of times over Zoom, and corresponds regularly via email (I forward on all GLOBE relevant correspondence to the team). Outcomes to date:
 - Decided on next steps to invigorate GLOBE here, including local trainings (we came up with a plan for the hopefully US Embassy-sponsored GLOBE training here in 2020, which will hopefully be inclusive of the CMT), other partners (Department of Conservation, Enviroschools network, New Zealand Association of Science Educators).
 - Creation of a pilot school list
 - Publication of STAR articles
 - A STAR article on the Opunake School data series is in the early draft stages
- Successful meetings have also been held with Enviroschools, ChristchurchNZ, and the NZ Association of Science Educators. We are looking at how we can work together to help promote GLOBE, with a number of activities already held involving ChristchurchNZ.
- An outcome of the previous Asia-Pacific meeting was working jointly with the Philippines and South Korea on an IVSS activity. At present, we are trying to find a student(s) who would be interested in this.

Challenges:

The principal challenge remains securing funding for coordination and training, along with my ability to contribute to the Country Coordinator role once my present contract finishes 31 Jan 2020.