

**GeoPRISMS Steering and Oversight Committee
April 29-30, 2019, NSF Headquarters, Alexandria, VA**

Edited by Anaïs Ferot, GeoPRISMS Science Coordinator & Demian Saffer, GeoPRISMS Chair

Introduction

The annual 2019 GeoPRISMS Steering and Oversight Committee Meeting provides GSOC members and NSF the opportunity to share updates on GeoPRISMS activities, research funding and outcomes, and to address program issues and planning. This year's GSOC meeting specifically addressed plans for legacy and integration for GeoPRISMS science, and strategizing to best position the GeoPRISMS community at the end of the Program to develop new directions and identify new opportunities.

NSF and GeoPRISMS Office Updates

GeoPRISMS Chair Demian Saffer (Penn State) welcomed members and attendees to the meeting, which was held in the NSF Building in Alexandria, VA. Recently appointed OCE Division Director Terry Quinn welcomed and thanked the GSOC members for their service to the community. Quinn reminded GSOC that NSF, across divisions, stays strongly committed to GeoPRISMS science. GeoPRISMS is an exemplary program that spans the EAR and OCE divisions, and sets high standards for research programs in general. EAR Division Director Lina Patino added her welcome to the meeting attendees. EAR GeoPRISMS Program Director Jenn Wade then summarized the current state of NSF-GeoPRISMS, including recent awards from the FY19 solicitation (these awards are listed on the GeoPRISMS website at: <http://geoprisms.org/research/list-of-awards/>). Wade noted that the 2019 solicitation (for FY20) will be the last for the GeoPRISMS program. At the time of the GSOC meeting, the GeoPRISMS solicitation was still a work in progress, and NSF was working to incorporate the community's needs, as articulated at the San Antonio TEI, including support for focused workshops designed around synthesis, integration, and/or development of new research directions.

GeoPRISMS Science Coordinator Anaïs Ferot then provided a brief overview of Office activities, including management of the website; communication with the large GeoPRISMS community; publication of the bi-annual newsletter; coordination of workshops and meetings – including the major synthesis & integration TEI and AGU events; coordination of the distinguished lectureship program (DLP); administration of a Student Prize at the AGU Fall Meeting; and hosting of apply to sail and web presence for community projects (e.g., ExTERRA; AACSE). For the TEI, the Office managed to support more participants than initially planned (~170, vs. 100 originally budgeted), including a large cohort of early career investigators. The 2018-2019 DLP marks the final tour for the program; thanks to speakers Jaime Barnes (UT Austin), Anne Becel (LDEO), Cindy Ebinger (Tulane), and Abhijit Ghosh (UC Riverside). The impact of the DLP is high: since the beginning of the lecture series in 2010, the office has received 500 applications. Of these, 225 received a speaker. 57 speakers have toured the US. We estimate that more than

9000 people have attended a DLP lecture.

NSF funded a supplement request to extend the GeoPRISMS Office for one year to support streamlined core office activities. These activities will include Fall 2019 AGU mini-workshops, one potential GSOC meeting in 2020, work on a legacy “celebration” newsletter and website, and, in general, to continue communication and work to position the community for after the end of the Program.

Workshop, Meeting, and Community Project Reports & Updates

Two GeoPRISMS mini-workshops were sponsored by GeoPRISMS at the 2018 AGU Fall Meeting. Both mini-workshops were organized the Sunday before AGU. The reports of the mini-workshops are available on the GeoPRISMS website at: <http://geoprisms.org/meetings/mini-workshops/> and are published in the Spring 2019 issue of the newsletter. GSOC members Mark Caddick and Luc Lavier provided brief reports on the two miniworkshops, aimed at the construction of arc crust via exhumed terranes, and at highlighting research results from recent studies at the Hikurangi subduction zone (New Zealand), respectively.

Lead conveners Katie Kelley and Harm Van Avendonk then called in remotely to the GSOC meeting to provide a report on the synthesis & integration TEI (report available from the meeting website at: <http://geoprisms.org/tei-2019/>; also published in the Spring 2019 newsletter). The goals of the meeting were to identify emerging directions and science questions and to engage early career scientists and students in a cross-disciplinary exchange of expertise and results. An important aspect of the meeting was to position the GeoPRISMS community for future opportunities and to define and articulate the future of the GeoPRISMS science. The final goal was to develop concrete ideas for legacy products or activities in science and Education & Outreach. Ensuing discussion among the GSOC made it clear that focused workshops are needed in the near future to synthesize ongoing work, and to facilitate discussion of new directions and opportunities in core thematic and/or geographical areas. The GSOC agreed that framing AGU mini-workshops around the key topics raised on the last day of the TEI would be an ideal way to catalyze discussion and potentially (a) proposal(s) for a coordinated suite of workshops to advance GeoPRISMS science.

Geoff Abers (Cornell), co-PI of the Alaska Amphibious Community Seismic Experiment (AACSE) Team, called in to provide updates on the project. This is a community experiment (all data will be openly available), designed to study the entire system from the outer rise to the arc and back-arc. The deployment ran from late spring 2018 through fall 2019, and included an onshore broadband array and large OBS deployment, as well as several complementary instruments and experiments. For both the deployment and planned recovery (May 2019) activities, there have been several apply to sail berths for students, early career scientists and non-specialists, and two berths for K-12 Teachers.

Andrew Goodwillie then provided an update on the status of the GeoPRISMS Data Portal. Users can access the Data Portal via the website (<http://www.marine-geo.org/portals/geoprisms/>) or via the GeoPRISMS website (<http://geoprisms.org/geoprisms-data-portal/>). When available,

data are linked to the awards page on the GeoPRISMS webpage:

<http://geoprisms.org/research/list-of-awards/>. This update was followed by vigorous discussion about long-term plans needed to ensure data legacy, stability, and discoverability for programs like – but not exclusive to - GeoPRISMS. This discussion then transitioned to a broader conversation about content to be maintained as part of a GeoPRISMS Program legacy website, and particularly ways to make hard-won datasets most useable and accessible. One outcome of this discussion was the need for a more detailed, focused workshop on data legacy and archiving.

Discussion and planning for Upcoming Activities

The GSOC discussed plans for 2019 AGU mini-workshops, in light of the preceding agenda items and the TEI outcomes. The consensus was that these mini-workshops should be coordinated by the GSOC, and serve as a platform for transitioning from the TEI towards positioning the community for opportunities beyond GeoPRISMS. The GSOC agreed that one session should focus on the topical themes that arose at the end of the TEI, with the goal of identifying key next steps in synthesizing results, and/or addressing emerging questions. A second session should focus on data, legacy products, and E&O, and could serve as a forum for preliminary discussion that feeds in to a planned data legacy and archiving workshop.

The GSOC then held a broad discussion about potential legacy and synthesis products focusing on both E&O and science. Detailed discussion focused on identifying specific types of contributions that would:

- Provide a clear record of accomplishments & value of shoreline-crossing, interdisciplinary science;
- Highlight newly arising questions & directions; and
- Point the way forward for the community

The GSOC recognized that some key products (e.g., a final extended format “celebration” newsletter; the program website; EOS article; coordination of a special symposium in Washington DC) can and should be developed by the Office or GSOC, many legacy products would require members of the community to take leading roles – particularly those related to coordinated thematic issues in journals, production of E&O materials, or development of apps. The meeting adjourned following detailed discussion of key elements of these legacy products, and agreement that this plan should be further developed by the office, in consultation with the GSOC, over the coming months.