





STEMSEAS Update Summer 2020 Jonathan C. Lewis, Indiana University of Pennsylvania Sharon K. Cooper, Lamont Doherty Earth Observatory,

UNOLS Council Summer Telecon



2020 STEMSEAS Transits

24 April – 1 May: *R/V Endeavor* from Port Everglades, FL to Narragansett, RI
12 May – 17 May: *R/V Sikuliaq* from Seward, AK to Seattle, WA
10 July – 15 July: *R/V Sikuliaq* from Seattle, WA to Seward, AK
11 July – 17 July: *R/V Hugh Sharp* from Gulfport to Lewes, DE
9 August – 13 August: *R/V Neil Armstrong* from Galway, Ireland to Reykjavik, Iceland
25 Aug – 30 August: *R/V Marcus Langseth* from Ketchikan, AK to Dutch Harbor, AK

STEMSEAS Participant Demographics Female 80% 4-yr school 70% 2016 2018 2019 White 60% 50% Sophomore Hispanic/ 2-yr Latinx Male school Junior 40% Afr. Am. 30% Freshman Senior Asian Am. 14 . 20% . . . Native Pacific . . Other Am. ÷ Islander 10% . . Other 1 . 1 0% Sex Academic Stage Self Identity Campus Туре

250+ applications reviewed for STEMSEAS 2020.

What they are missing in the current situation?

Word **clouds*** of the 2016, 2018 & 2019 cohorts suggest they are missing transformative experiences.

* (not counted)

When you signed up for STEMSEAS what were you *hoping* to *get* out of it?



Having participated in the STEMSEAS program, how have your CAREER **goals changed**, if at all? How did the program influence those changes? Please be specific and give examples.



Having participated in the STEMSEAS program, how have your ACADEMIC/EDUCATIONAL *goals changed*, if at all? How did the program influence those changes? Please be specific and give examples.



What was the **best part** of the STEMSEAS program? What makes you say that?



Overall, what was the *main benefit* of your participation in the STEMSEAS program? What did you get out of it?



Amazing impacts on career trajectory

"Having the opportunity to go on this trip with STEMSEAS has been the single greatest thing I have ever done. I am so thankful for the opportunity that it has given me. I will never forget it." – 2016 participant

"Disclaimer: I know I'm rating everything 10, but I honestly feel this way. It was chilling to have real scientist who make a living off of their research as our peers and mentors. Never have I actualized the possibility of being a scientist like I did during our transit. I feel so happy and hopeful for the future, and I hope it's a future filled with research." – 2019 participant



Are you interested in participating in STEMSEAS on-line events over the next 4-6 months? 76 responses



What topics are you interested in? (select as many as you want)

76 responses





How can we make lemonade right now?

- Virtual events!!!
 - Lectures from scientists
 - Chats with crew
 - Telepresence (or even just HiSEASNET or cell if close to shore) connections to cruises
 - Opportunities for students to participate as shore-based assistants with expedition data
 - Alumni chats
 - Ship capabilities seminar
 - Mentoring: how to find research experiences or apply to grad school

• What else?!! More ideas welcome!



Questions?

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