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(NSF-OCE 1356610)

Melting in the Off-Axis Environment – Interdisciplinary Field & Modeling Studies of the 8°20'N Seamount Chain, EPR



Operations Summary:

15 Alvin Dives ~5.2 hrs avg. bottom time

12 Sentry dives ~8 hrs avg. bottom time (night ops only)

19 Rock Dredges

222 Alvin Lava Samples

145 Dredged Lava Samples

~16,000 km² of seafloor mapped with EM122 multibeam, gravity, magnetics

~75,000 12-24MP high-res. still images using MISO cameras on Alvin

Elevator deployment to image Alvin operations on the seafloor using HD video and high-res. still cameras

13 new Alvin science observers - several with multiple dives

Outreach:

OASIS YouTube Channel: https://www.youtube.com/channel/UC2qHa5PSZCF2_KeCvRTaFGQ

Over 4300 views; collaborations/curriculum development: University Primary School (UPS) Partnership at U. Illinois College of Education; Campus Middle School for Girls at U. Illinois



