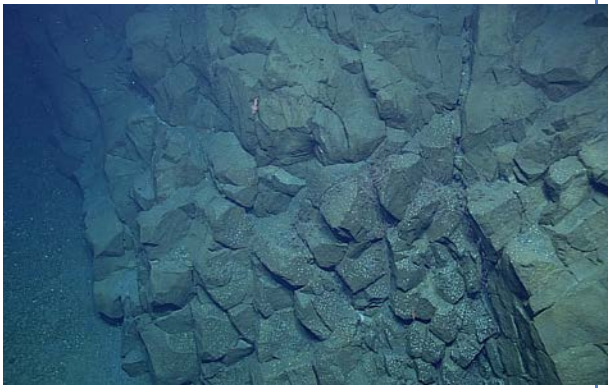







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Purpose of the Dive

Ahyi Seamount is a part of the Vents Unit and is within the area of the Islands Unit of the Mariana Trench Marine National Monument. No ROV dives have ever been made here that we know of. Ahyi was originally mapped with multibeam sonar during NOAA-OER supported cruises in 2003 and 2004. Ahyi erupted for about 3 weeks in April-May 2014 creating underwater explosions that were heard by NOAA coral reef divers working at the adjacent island of Farallon de Pajaros and the explosions were detected remotely by USGS seismometers on other Mariana Islands. During subsequent OER-supported expeditions in the area in May 2014 (Hi'ialakai) and December 2014 (Revelle), remapping of Ahyi Seamount with multibeam sonar showed major depth changes (>100 m) at the summit where two new craters formed, and on the south flank where a major landslide occurred. The goals of the dive were to explore the new craters near the summit, sample any new erupted lava, and assess the impacts of the eruption on the local marine ecosystem.

Representative Photos of the Dive		
		
Striking columnar jointing appeared on what is likely a dike up which we were traversing for much of the dive track.		This octopus moved along the bottom, in search of squat lobsters and other prey.
Samples Collected		
Sample ID	SPEC01GEO	
Date (UTC)	20160621	
Time (UTC)	224107	
Depth (m)	360.14	
Temperature (°C)	14.92	
Field ID(s)	Clinkery Lava Block	
Comments	20.5x15x11	
Sample ID	SPEC02BIO	
Date (UTC)	20160622	
Time (UTC)	013121	
Depth (m)	288.41	
Temperature (°C)	16.71	
Field ID(s)	Limpets	
Comments	14 recovered from rock	

Sample ID	SPEC03GEO	
Date (UTC)	20160622	
Time (UTC)	022812	
Depth (m)	259.14	
Temperature (°C)	16.93	
Field ID(s)	Massive block of lava	
Comments	27x18x12, Smells of sulfur. No samples of filament were recovered.	
Sample ID	SPEC04GEO	
Date (UTC)	20160622	
Time (UTC)	013121	
Depth (m)	288.41	
Temperature (°C)	16.71	
Field ID(s)	Rock	
Comments	12x6x5, rock recovered with SPEC02BIO	
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