

ROV Jason Daily Report

Cruise Number: RB 19-03

Dive number: J2-1133

Chief Scientist: Amanda Demopoulos

Report Date: 4/23/2019

Expedition Leader: Alberto Collasius Jr.

Prepared By: Expedition Leader

Vessel Location: Atlantic 35.7W 74.8W

Weather: Good weather for LAR

Dive Times: GMT

Dive Activities/Future Activities:

Coral pots, Coral samples to quivers, Push cores, rock collection, Samples to Bio Box's, Slurp and push cores

Reason for Dive Termination: Objectives completed

Dive No.	Dates	Max Depth	Hours Descending	Hours Ascending	Hours on Bottom	Hours in water	Time On Deck	Time on Deck not available to science
J2-1128	4/10-4/11	792	:50	2:45	9:30	13:05		0
J2-1129	4/13-4/14	746	1:07	1:20	11:15	13:42	56:53	32:53
J2-1130	4/17	554	1:19	1:06	8:42	11:07	60:47	0
J2-1131	4/17-4/18	1365	1:55	2:10	13:27	17:32	10:27	0

J2-1132	4/21-4/22	1840	2:53	1:15	23:40	27:48	71:37	0
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Completed Dive Summaries:

Vehicle Status: Got a big Tuna stuck in aft bay for a bit. No other issues

Weather Forecast: Moderate blow expected this evening.

Expedition Leader Comments: Another good dive. All went well till the Tuna attacked. Shut off all lights to try and make it go away. When we turned lights back on Tuna was stuck in aft bay. Went away for a bit once it extracted itself but started on the bow of vehicle again. It hit itself multiple time and seemed to knock itself out and eventually fell backwards off the basket. Not sure Tuna survived.

Chief Scientist Comments:

This was an incredible dive in an area that was recently detected through multibeam mapping efforts and previously imaged by Sentry in 2017. We conducted an Alvin dive at a site ~ 1.5 nm to the northwest of today's dive target. The seep dive was incredibly diverse in terms of fishes, including rock fish, snipe eels, long-finned hake, and midwater fishes, plus we saw lots of schooling fish and shoals of squid. Hammerheads, a manta ray, and a tuna also were observed. We collected rocks and many sediment cores within bacterial mats and bubbles, plus water samples. While collecting a rock, we found a tube worm (Vestimentiferan: cf. Lamellibrachia), which to our knowledge has not be collected along the US Atlantic seeps and could represent a discovery. In addition, we found Lophelia growing on carbonate, which was a nice surprise. All of the scientific objectives were met by the dive and the expert collecting capabilities of the pilots and ROV crew.

We were especially grateful for the pre-dive installation of the core umbrella, which helped protect the gassy cores from escaping from the basket during recovery.

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