

## ROV Jason Daily Report

**Cruise Number:** RB 19-03

**Dive number:** J2-1131

**Chief Scientist:** Amanda Demopoulos

**Report Date:** 4/18/2019

**Expedition Leader:** Alberto Collasius Jr.

**Prepared By:** Expedition Leader

**Vessel Location:** Atlantic 32N 78W

**Weather:** Very nice for launch. Deteriorating for recovery

**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

### Completed Dive Summaries:

**Vehicle Status:** We have an AC ground fault that appears after submersion but disappears during descent. No other problems.

**Weather Forecast: Looks bad for the next 48 hours.**

**Expedition Leader Comments:**

Good dive. .8 knots of surface current. Sampling went well. Level wind continues to drift. We are planning a test cast with the steel pig before the weather comes up.

**Chief Scientist Comments:**

The primary objective of the dive was to investigate a steep feature within the Blake Ridge region. Previous Alvin and D2 (ROV, Okeanos) dives to the north and south of the dive target revealed diverse communities of corals and coral communities, so this exploratory dive had the potential for being very exciting, and it did not disappoint. As soon as we reached the seafloor, we encountered diverse coral communities, with several species of octocorals (isidiids, paramuricids, plexaurids, primnoids), black and stony corals represented. Several enormous dead coral skeletons (either black coral or bamboo) were identified and a few of these were collected for microchemical analysis. We observed very few fish species but imaged an interesting cusk eel loaded with parasites.

All of the science objectives were met, and the basket was full. We appreciate the attention the ROV group paid to ensuring that we dived in the correct location, after accounting for current speed and direction. The pilots did an exceptional job collecting a variety of challenging samples that are now keeping the scientists busy for days. They also helped us collect great imagery for the project. We ended up maxing out the cards recording the 4K imagery, but Scotty resolved the problem quickly. Great work!

**Contact Numbers:**

**WHOI/NDSF**

**Vessel Other**

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