DIVE NUMBER: J2-543

STUDY AREA: Pourtales Terrace

STATION OVERVIEW







DIVE DATA

Date	12-Nov-10
Minimum Bottom Depth (m)	169
Maximum Bottom Depth (m)	212
Start Bottom Time (EDT)	17:58
End Bottom End (EDT)	19:41
Starting Latitude (N)	24° 45.028'
Starting Longitude (W)	80° 27.196'
Ending Latitude (N)	24° 44.948'
Ending Longitude (W)	80° 27.298'
Surface Current (Kts)	2.5
Bottom Current (Kts)	2.3

Image A: Sand/Rubble/Rock with Attached Fauna 24° 44.989' N, 80° 27.240' W



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IMAGE GALLERY Image B: Mixed Habitat

24° 44.988' N, 80° 27.240' W

Image C: Mixed Habitat 24º 44.978' N. 80º 27.264' W

* indicates image position is approximated Image D: Rock Ledge with Attached Fauna 24° 44.936' N, 80° 27.306' W



RELEVANT WORK AND/OR LITERATURE CITED

EEZ-SCAN 87 Scientific Staff (1991) Reed (2002) Reed and Ross (2005) Reed et al. (2005) Reed et al. (2006) Ross and Nizinski (2007)

BIOLOGICAL ENVIRONMENT

At the northeast corner of the dive track, soft sediment with little fauna was replaced with small rocks that support small attached invertebrates such as gorgonians, small hard corals and hexactinellid sponges. Abundant sessile fauna attached to the low relief rock and ledge habitats were highly diverse, including numerous species of hexactinellid and demospongia sponges ranging from small vase, ball and large plate forms, orange and white stylasterid hydrocorals, soft corals such as Plumerella sp. and Acanella sp. and hard corals such as Enallopsammia profunda, Cladocora sp. and cup corals. No Lophelia pertusa were evident. Mobile fauna included blackbelly rosefish, codling and a boarfish.

PHYSICAL ENVIRONMENT

This dive began to the northeast of rock ridges beginning over soft substrate and traversing through a mix of soft substrate and rock with attached fauna over a gradual decline in elevation. In a low flat valley there was primarily low profile rock slabs and small ledges of eroded rock with abundant attached fauna interspersed with low relief areas of mixed hard and soft coral and sponge habitat. The western edge of the valley met an abrupt vertical rock face with attached fauna. The sub moved laterally along the rock face before increasing in elevation up the rock face to a flattened area with numerous small rocks and ledges and ending with a large undercut rock ledge covered in sessile fauna.

ADDITIONAL COMMENTS

Video is stored on a Mac-formatted external hard drive. Quality was extremely clear, with very few sections of unusable footage. Video time in GMT. However, there was no audio recorded. Collections were taken of hexactinellid and demospongia sponges, styasterid hydrocorals, Plumerella sp., and a blackbelly rosefish.



Plots of CTD data recorded during ROV dive ROV-2010-RB-543 (12 Nov 2010) off Pourtales Terrace.