

Dive Summary

JAX Scarp (FL MPA Option 1) 7/30/2002

*Characterization of Deep Reef Habitat, with Particular Emphasis on
Discoverv. Exploration and Description of Reef Fish Spawning Sites*

Overview of Dive JSL2-3291 at JAX Scarp (FL MPA)

Craig Caddigan piloted this dive with aft technician Hugo Marrero at the site known as JAX Scarp (FL MPA Option 1) (30° 24.0273N / 080° 12.9320W) on 7/30/2002 starting at 9:41:00. Total dive time was 2:41:00 and the maximum depth reached was 195 feet. Scientific observers were Charlie Barans and Stacie Crowe. (All times EDT)

Dive Objectives. Objectives accomplished during the dive include:

Fish Assessment	Primary
Benthic Assessment	Primary
Geologic Assessment	Primary
Education/Outreach	Primary
Transect(s)	Secondary
Filming	Secondary
Sample Collection	Secondary

Data Collected. Types of data collected during the dive include:

CTD File Raw	jsl2_3291_ctd.zip
Track File Shape	jsl2_3291_trk.zip
Track File WPT	jsl2_3291_wpt.zip
Track File Raw	jsl2_3291_raw.zip
MiniDV	JSL2-3291-1
MiniDV	JSL2-3291-2
MiniDV	JSL2-3291-3

Living Marine Resources Abundance

few 2-10; many 11 - 100; abundant >100

Pelagic Fish	Many	Other Benthic all above abundant (corals/sponges)
Bottom Fish	Abundant	
Crustacean	Few	
Mollusk	Few	
Echinoderm	Few	

Observations and Comments on Living Marine Resources:

all rocks covered with solid layer of low profile invertebrates

General Comments

None.



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Dive Track Description

Started west of ridge on sandy hard bottom with scattered sponges and soft coral, proceeded along course 090 through increasingly large rocks until getting to the undercut ridge. The top of the ridge was hard and flat with scattered sponges and soft corals. Very few fish were seen on top of the ridge or away from the narrow band of large rocks just below (east) of the ridge. The commercial fish species and greatest diversity of fishes were in the complex habitat of the large rocks. Four minute fish transects were made back and forth across the large rock habitat at about 45 degree angles to the ridge because the current was about 0.7 knots would not allow N or S movement of the sub. Sediment grabs were attempted on the hard flat areas east of the ridge without success after two transects. After the fourth transect, four sediment samples and several sponge samples were collected at some distance from the ridge (east). Then fish transects continued until the end of the dive.

Relief of features observed during the dive ranged from to 9 meters.

Observed Human Activities

Observed Human Impacts

none

Overall Dive Site Ratings

1 = low; 10 = high

uniqueness	9
Health	5
disturbance	5
Biodiversity	5

Observed Fish Abundance

few 2-10; many 11 - 100; abundant >100

Chromis enchrysur	Abunda
Bodianus pulchellus	Many
Holacanthus bermudensis	Many
Haemulon aurolineatum	Abunda
Lutjanus campechanus	Single
Rhomboplites aurorubens	Single
Seriola dumerili	Many
Mycteroperca phenax	Few
Priacanthus arenatus	Abunda
Holocentrus rufus	Many
Lactiohyrys quadricornis	Single
Balistes capriscus	Few
Chaetodon sedentarius	Many
Chaetodon aya	Few
Serranus phoebe	Few