

Clelia 606

Pilot: Tim Askew

Obs 1: Chris Koenig

Obs 2: Sandra Brooke

Date: 08/29/01

Visibility: 20'

Depth range: 210'-260'

Time: 12:00:00-14:22

Jeff's Reef 606

Objectives: Transects along the reef

General Habitat: Jeff's reef is a large live *Oculina* reef (about 1,000 m in circumference) surrounded by sand flats. The reef consists of large high relief *Oculina* heads to small scattered intact *Oculina* heads. These smaller heads are usually found around the border of the reef and are associated with more dead coral. Octocorals and gorgonians were present but were very sparse. The sand flats surrounding the reef contain scattered small live and dead *Oculina*, sea whips, and coral/shell rubble.

Invertebrates:

- Stalked anemones were common on the reef as well as Diadematidae.
- One hermit crab was seen by the coral table on the sand flats.
- Also on the sand flats, sea cucumbers (Holothuroidea) were common (50+) as well as many fish and invertebrate burrows. Some Holothurians were also associated with the live *Oculina* reef structure as well.

Human impacts:

- Anchor lines-2 (on sand bottom flats)
- Longlines-12 (Mostly on low relief live and dead *Oculina*)
- Steering wheel type debris-1 (low relief *Oculina*)
- Coral transplant block/artificial habitat-1 (Sand flat-possibly some small live coral on it and a few fish were associated with it)

Fish:

- Throughout the dive fish were plentiful on the reef especially the small reef fish. These included 1000's of Anthiinae, mostly *Hemanthias vivanus* with scattered *Holanthias martinicensis*.
- Over 100 *Seriola dumerili* followed sub during the dive. A few *Seriola rivoliana* were swimming with the school.
- Other reef fish present in healthy #'s were *Holacanthus bermudensis*, *Chaetodon aya*, *C. sedentaria*, *Chromis scotti*, *Liopropoma eukrines*, and *Chromis enchrysurus*
- *Serranus phoebe* were present on the sand flats around reef
- *Equetus umbrosus* was associated with the reef blocks
- *Pristigenys alta* and *Myripristis jacobus* were present on reef and spotted a few

times

- Just one *Balistes caprisus* was seen by observers in sub but not on video
- Below is a description of **Commercially Important Species** for each transect:

	Start-TI	TI	T2	T3	T4	T5	T6	T7	Inbetween	T8	T9	T10
M. phenax	4		3	1		5	2	4	1	4	2	7
M. microlepis	3 (1 male)		1		1			4			1	1
E. adscensionis	1											
E. niveatus					1							
E. drummondhayi											1	

Other Species Observed

	Acanthurus sp.		Equetus lanceolatus		Paralichthys sp.
A	Anthiinae		Equetus sp.		Plectranthias garrupellus
	Apogon sp	F	Equetus umbrosus		Plectrypops retrospinus
	Bodianus pulchellus		Equetus iwamotoi		Pomacetrus sp.
	Centropristis ocyurus		Gymnothorax moringa		Priacanthus arenatus
	Centropristis striata		Halichores bathyphilus	S	Pristigenys alta
	Centropristis fuscula		Halichores sp	S	Rypticus maculatus
M	Chaetodon aya	A	Hemanthias vivanus		Scorpaena
	Chaetodon ocellatus	M	Holacanthus bermudensis		Serranus flaviventris
F	Chaetodon sedentarias		Holacanthus ciliaris		Serranus phoebe
	Chaetodon sp.	A	Holanthias martinicensis	A	Seriola dumerili
	Chromis cyanea		Holocentrus	S	Seriola rivoliana

	Acanthurus sp.		Equetus lanceolatus		Paralichthys sp.
A	Anthiinae		Equetus sp.		Plectranthias garrupellus
			adscensionis		
F	Chromis enchrysurus	S	Holocentrus sp.		Synodus sp
	Chromis scotti		Labridae		Callionymidae
	Decodon puellaris	F	Liopropoma eukrines		Canthigaster urosticta
	Diplectrum formosum		Ogcocephalus sp.		

Good shots:

3chip 1

1. 12:50:13 RT-----00:16:15 tape time
606-1.mpg
606-1.jpg
Live Oculina coral heads
Top of ridge with a Scamp in view
2. 12:55:26RT----00:21:16 tape
606-2.mpg
606-2.jpg
High relief Oculina on the South face of Jeff's reef.
Blue Angelfish, Bank Butterflyfish and Anthiids present.

3chip 2

3. 13:51:03RT-----00:08:30 tape
606-3.mpg
606-3.jpg
Lower relief Oculina area with mostly dead intact coral. The outer tips of this dead Oculina are alive though.
Anthiids present.
4. 13:56:38RT-----00:14:10
606-4.mpg
606-4.jpg
606-4a.mpg
606-4a.jpg
Reef Block/ Transplant block
There is possibly some very small live Oculina growth on this block.
Cubbyu and Yellowtail Reeffish have made this area home on the sand flats since it provides good habitat and protection.
Greater Amberjack swim through.

