

**Appendices**

**Appendix I Methods, Instrumentation, Classification**

**Table I.i.** Towed Optical Assessment Device (TOAD) benthic habitat validation categories.

Zones	Classes
<b>Depressions</b>	Narrow Depression Broad Depression with Open Bottom Local Crest in Depression
<b>System</b>	Basalt Island Sea Stack Carbonate Island Closed Atoll Open Atoll Submerged Bank/Reef Continental Reef
<b>Zone</b>	Intertidal Lagoon Reef Flat Back Reef Reef Crest Fore Reef Shelf Escarpment Land
<b>Living Cover</b>	Seagrass Non-Scleractinian Coral Scleractinian Coral Coralline Algae Coral or Coralline Algae Macroalgae Turf Algae Unclassified Algae Emergent Vegetation Giant Clam Other Non-Mobile Invertebrates

Zones	Classes
<b>Crests</b>	Depression on Crest Narrow Crest
<b>Flats</b>	Local Depression on Flat Broad Flat Shelf Local Crest on Flat
<b>Slopes</b>	Lateral Midslope Depression Open Slope Lateral Midslope Crest Steep Slope
<b>Coral (Growth) Morphology</b>	Massive Plate-like Encrusting Branching Columnar Free-living
<b>Holes</b>	no cavities few small cavities many small cavities few large cavities many large cavities few sml and lrg cavities many sml & lrg cavities many sml & few lrg cavities
<b>Substrate</b>	Unconsolidated (Mud) Unconsolidated (Sand) Hardbottom (Rubble) Hardbottom (Boulder) Hardbottom (Rock) Hardbottom (Man-made Structure)

**Table I.ii.** Oceanographic equipment and instrumentation: company name, instrument type, applicable measurement and associated accuracy range.

Company	Instrument	Measurement	Accuracy +/-
Sea-Bird Electronics	SBE 37	Sea Surface Temperature	0.002 °C
Sea-Bird Electronics	SBE 37	Surface conductivity	0.0003 S m <sup>-1</sup>
Sea-Bird Electronics	SBE 39	Sea Surface Temperature	0.002 °C
Sea-Bird Electronics	SBE 26 <i>plus</i>	Wave and Tide: Via pressure	0.01 % Feet of seawater
Sea-Bird Electronics	SBE 19 <i>plus</i>	Shallow water CTD Conductivity	0.005 S m <sup>-1</sup>
Sea-Bird Electronics	SBE 19 <i>plus</i>	Shallow water CTD Temperature	0.0002 °C
Sea-Bird Electronics	SBE 19 <i>plus</i>	Shallow water CTD Pressure	0.1 % Feet of seawater
Wetlabs	C-Star Transmissometer	Shallow water CTD Turbidity	Not specified
Sea-Bird Electronics	SBE 911 <i>plus</i>	Deep water CTD Conductivity	0.003 S m <sup>-1</sup>
Sea-Bird Electronics	SBE 911 <i>plus</i>	Deep water CTD Temperature	0.001 °C
Sea-Bird Electronics	SBE 911 <i>plus</i>	Deep water CTD Pressure	0.015 % Feet of seawater
Sea-Bird Electronics	SBE 43	Deep water CTD Dissolved Oxygen	2 % Saturation
Wetlabs	ECO FLNTU	Deep water CTD Turbidity	0.01 NTU
Wetlabs	ECO FLNTU	Deep water CTD Fluorescence	0.01 µg l <sup>-1</sup>
Sea-Bird Electronics	SBE 21	Thermosalinograph	0.0001 S m <sup>-1</sup>
Young Instruments	WS425	Air Temperature	0.3 °C
Heise Instruments	DXD	Barometric Pressure	0.02 % Feet of seawater
Vaisala Instruments	Weather Station	Wind Speed	0.135 m s <sup>-1</sup>
Vaisala Instruments	Weather Station	Wind Direction	2 °
SonTek	Acoustic Doppler Profiler	Current profiler	0.005 m s <sup>-1</sup>
SonTek	Acoustic Doppler Profiler	Wave spectra: Via pressure	0.1 % Feet of seawater

**Table I.iii.** Common name index for American Samoan Corals.

Common Name	Scientific Name
Antler Coral	<i>Pocillopora eydouxi</i>
Bewick Coral	<i>Leptastrea bewickensis</i>
Blue Coral	<i>Heliopora coerulea</i>
Bottlebrush Coral	<i>Acropora elseyi</i>
Branching Staghorn Coral	<i>Acropora nasuta</i>
Bushy Staghorn Coral	<i>Acropora valida</i>
Cauliflower Coral	<i>Pocillopora meandrina</i>
Corrugated Coral	<i>Pavona varians</i>
Crust Coral	<i>Leptastrea purpurea</i>
Disk Anemone	<i>Discosoma sp.</i>
Finger Staghorn Coral	<i>Acropora humilis</i>
Fire Coral	<i>Millepora sp.</i>
Fuzzy Table Coral	<i>Acropora paniculata</i>
Haime's Lump Coral	<i>Psammocora haimeana</i>
Honeycomb Coral	<i>Gardineroseris planulata</i>
Lace Coral	<i>Pocillopora damicornis</i>
Leather Coral	<i>Lobophytum sp.</i>
Leather Coral	<i>Sinularia sp.</i>
Lichen Coral	<i>Porites lichen</i>
Lobe Coral	<i>Porites lobata</i>
Lumpy Rice Coral	<i>Montipora turgescens</i>
Maldive Coral	<i>Pavona maldivensis</i>
Mosaic Coral	<i>Leptastrea purpurea</i>
Mound Coral	<i>Porites lutea</i>
Mushroom Coral	<i>Fungia fungites</i>
Nodule Coral	<i>Porites annae</i>
Ocellated Coral	<i>Cyphastrea</i>
Oval Mushroom Coral	<i>Fungia scutaria</i>
Plate-and-Pillar Coral	<i>Porites rus</i>
Potato Chip Coral	<i>Pavona cactus</i>
Rice Coral	<i>Montipora verrucosa</i>
Ridge Coral	<i>Leptsoseris mycetoseroides</i>
Soft Corals	<i>Alcyoniidae</i>
Solid Coral	<i>Porites solida</i>
Spiny Plate Coral	<i>Echinopora lamellosa</i>
Staghorn Coral	<i>Acropora austera</i>
Stinging Coral	<i>Millepora sp.</i>
Superficial Coral	<i>Psammocora superficialis</i>
Swelling Coral	<i>Leptsoseris incrustans</i>
Table Coral	<i>Acropora cytherea</i>
Transverse Coral	<i>Leptastrea transversa</i>
Verrill's Ringed Rice Coral	<i>Montipora verrilli</i>
Yonge's Staghorn Coral	<i>Acropora yongei</i>

Extracted from: <http://www.nps.gov/archive/npsa/NPSAcorl/corlnamcom.htm#top>

## Appendix II Oceanographic Instrument Deployments

**Table II.i.** Moored instrument deployments and retrievals around Tutuila and Aunu'u Islands: sea surface temperature (SST) buoy, recording current meter (RCM), wave and tide recorder (WTR), subsurface temperature recorder (STR), ecological acoustic recorder (EAR). **TRANSMITTING & LOGGING** – instrument records and transmits data via satellite; **LOGGING** – instrument records data until retrieved.

SITE	INSTRUMENT TYPE	DEPLOYED	RETRIEVED	DEPTH (m)
TUT-1	SST	2/10/2002	7/2/2002	0
	SST	7/29/2002	7/1/2005	0
	SST	8/4/2005	<b>TRANSMITTING &amp; LOGGING</b>	0
TUT-2	SST	2/27/2002	6/27/2002	0
	SST	7/29/2002	<b>TRANSMITTING &amp; LOGGING</b>	0
TUT-3	RCM	3/3/2002	2/24/2004	22
TUT-4	SST	3/4/2002	6/27/2002	0
	SST	7/29/2002	2/20/2006	0
	SST	3/29/2006	<b>TRANSMITTING &amp; LOGGING</b>	0
TUT-5	STR	2/20/2004	2/19/2006	5.8
	STR	2/19/2006	<b>LOGGING</b>	6.1
TUT-6	STR	2/23/2004	2/24/2006	1.2
	STR	2/24/2006	<b>LOGGING</b>	1.5
TUT-7	WTR	2/24/2004	8/6/2005	22
	WTR	8/6/2005	2/25/2006	21.34
	WTR	2/25/2006	<b>LOGGING</b>	22.56
TUT-8	STR	2/25/2004	<b>LOGGING</b>	20.1
TUT-9	STR	2/27/2004	2/24/2006	6.7
TUT-10	STR	8/4/2005	2/18/2006	8.23
	STR	2/18/2006	<b>LOGGING</b>	7.62
TUT-11	STR	8/5/2005	2/21/2006	27.13
	STR	2/21/2006	<b>LOGGING</b>	29.87
TUT-12	STR	8/6/2005	2/26/2006	13.11
	STR	2/26/2006	<b>LOGGING</b>	12.8
TUT-13	EAR	2/19/2006	<b>LOGGING</b>	13.1
TUT-14	STR	2/20/2006	<b>LOGGING</b>	8.23
TUT-15	EAR	2/20/2006	<b>LOGGING</b>	16.7
TUT-16	EAR	2/23/2006	<b>LOGGING</b>	15.5
TUT-17	STR	2/24/2006	<b>LOGGING</b>	20.1
TUT-18	EAR	2/25/2006	<b>LOGGING</b>	16.7
TUT-19	SST	2/26/2006	<b>TRANSMITTING &amp; LOGGING</b>	0

**Table II.ii.** Moored instrument deployments and retrievals offshore of Ofu and Olosega Islands: sea surface temperature (SST) buoy. **TRANSMITTING & LOGGING** – instrument records and transmits data via satellite; **LOGGING** – instrument records data until retrieved.

<b>SITE</b>	<b>INSTRUMENT TYPE</b>	<b>DEPLOYED</b>	<b>RETRIEVED</b>	<b>DEPTH (m)</b>
<b>OFU001</b>	STR	2/7/2004	2/26/2006	9.8
	STR	2/26/2006	<b>LOGGING</b>	10.9
<b>OFU002</b>	STR	2/7/2004	2/27/2006	6.4
	STR	2/27/2006	<b>LOGGING</b>	6.4
<b>OFU003</b>	STR	2/8/2004	3/1/2006	6.1
	STR	3/1/2006	<b>LOGGING</b>	7.92
<b>OFU004</b>	STR	8/25/2004	<b>LOGGING</b>	1.5
<b>OFU005</b>	STR	8/26/2004	<b>LOGGING</b>	1.5
<b>OFU006</b>	STR	2/27/2006	<b>LOGGING</b>	6.1
<b>OFU007</b>	STR	2/27/2006	<b>LOGGING</b>	30.78
<b>OFU008</b>	STR	2/27/2006	<b>LOGGING</b>	18.9
<b>OFU009</b>	STR	3/1/2006	<b>LOGGING</b>	1.8

**Table II.iii.** Moored instrument deployments and retrievals offshore of Ta'u Island: sea surface temperature (SST) buoy, subsurface temperature recorder (STR). **TRANSMITTING & LOGGING** – instrument records and transmits data via satellite; **LOGGING** – instrument records data until retrieved.

<b>SITE</b>	<b>INSTRUMENT TYPE</b>	<b>DEPLOYED</b>	<b>RETRIEVED</b>	<b>DEPTH (m)</b>
<b>TAU001</b>	SST	2/12/2002	6/27/2002	0
	SST	7/9/2002	2/7/2004	0
<b>TAU002</b>	STR	2/4/2004	3/3/2006	6.1
<b>TAU003</b>	STR	2/5/2004	3/3/2006	10.1
	STR	3/3/2006	<b>LOGGING</b>	12.8
<b>TAU004</b>	SST	2/6/2004	<b>TRANSMITTING &amp; LOGGING</b>	0
<b>TAU005</b>	STR	8/8/2005	3/4/2006	14.3
	STR	3/4/2006	<b>LOGGING</b>	15.5
<b>TAU006</b>	STR	3/3/2006	<b>LOGGING</b>	12.8

**Table II.iv.** Moored instrument deployments and retrievals around Swains Island: ocean data platform (ODP), subsurface temperature recorder (STR). **TRANSMITTING & LOGGING** – instrument records and transmits data via satellite; **LOGGING** – instrument records data until retrieved.

SITE	INSTRUMENT TYPE	DEPLOYED	RETRIEVED	DEPTH (m)
SWA001	ODP	2/27/2002	2/16/2004	15
SWA002	STR	2/16/2004	2/11/2006	14
	STR	2/11/2006	<b>LOGGING</b>	14
SWA003	STR	2/11/2006	<b>LOGGING</b>	6.7
SWA004	STR	2/11/2006	<b>LOGGING</b>	28

**Table II.v.** Moored instrument deployments and retrievals around Rose Atoll: RCM recording current meter (RCM), Coral Reef Early Warning System (CREWS) buoy, wave and tide recorder (WTR), subsurface temperature recorder (STR). **TRANSMITTING & LOGGING** – instrument records and transmits data via satellite; **LOGGING** – instrument records data until retrieved.

SITE	INSTRUMENT TYPE	DEPLOYED	RETRIEVED	DEPTH (m)
ROS001	RCM	2/23/2002	2/9/2004	3.4
ROS002	CREWS	2/24/2002	<b>TRANSMITTING &amp; LOGGING</b>	0
ROS003	STR	2/10/2004	3/8/2006	3.4
	STR	3/8/2006	LOGGING	3.66
ROS004	STR	2/10/2004	3/8/2006	7.9
ROS005	WTR	2/11/2004	3/5/2006	17.1
	WTR	3/5/2006	<b>LOGGING</b>	16.46
ROS006	STR	2/11/2004	9/30/2005	7.9
ROS007	STR	2/11/2004	3/7/2006	2.4
	STR	3/7/2006	<b>LOGGING</b>	2.1
ROS008	STR	3/7/2006	<b>LOGGING</b>	9.14
ROS009	STR	3/7/2006	<b>LOGGING</b>	31.09
ROS010	STR	3/7/2006	<b>LOGGING</b>	16.7
ROS011	STR	3/7/2006	<b>LOGGING</b>	8.5

# Appendix III Coral Abundance

Table III.i. Results from 2004 REA coral surveys around Tutuila and Aunu'u Islands.

Taxa	Site																				Total # colonies	Area surveyed, m <sup>2</sup>	
	TUT-15	TUT-16	TUT-17	TUT-4	TUT-5	TUT-14	TUT-18	TUT-13	TUT-19	TUT-12	TUT-2	TUT-1	TUT-20	TUT-10	TUT-9	TUT-21	TUT-11	TUT-22	TUT-23	TUT-6			TUT-7
Acanthastrea	0.0	0.2	0.2	0.0	0.3	0.0	0.2	0.0	0.0	0.9	0.0	0.0	1.5	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.3	0.0	0.0
Acropora	1.4	10.2	4.9	4.3	6.0	7.1	4.8	0.5	1.8	1.7	8.9	0.0	1.5	0.3	1.0	5.1	5.6	9.1	15.8	4.7	5.6	7.8	
Astropora	2.7	1.4	1.6	1.8	0.0	0.3	4.3	21.5	1.8	0.9	1.5	0.0	0.7	0.8	0.0	0.6	0.4	0.0	0.3	2.5	2.6	2.6	
Coscinarea	0.8	0.3	2.1	1.8	0.0	1.1	0.3	0.0	0.9	0.0	0.0	0.3	1.5	0.2	0.8	1.0	0.3	0.0	0.8	1.1	0.0	0.0	
Cyphastrea	0.0	0.3	0.0	0.3	0.3	0.8	0.2	0.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	
Diplastrea	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.5	0.4	0.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Echinophyllia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.4	3.7	1.8	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	
Echinophyllia/Oxypora	0.0	0.0	3.6	0.8	0.0	0.3	0.0	0.0	0.0	0.0	0.6	2.2	0.2	0.0	0.6	0.2	0.0	0.2	0.0	16.5	0.6	0.0	
Favia	1.6	0.9	2.6	0.5	0.0	1.1	1.5	6.0	0.9	5.2	0.7	4.8	0.7	3.1	2.6	1.0	1.4	1.3	0.0	0.8	2.5	2.6	
Fungia/Cyclusis	0.4	0.2	0.9	0.0	0.0	1.7	0.0	0.4	0.9	0.0	0.3	0.0	0.3	0.0	0.4	0.3	0.2	0.2	0.8	0.3	0.0	0.7	
Fungia/Cyclusis	0.0	2.9	0.7	5.8	5.4	2.3	0.3	0.2	2.5	2.6	0.0	0.7	0.6	0.0	3.2	6.6	3.9	3.4	0.0	0.6	0.0	0.0	
Galaxea	0.0	2.0	1.2	1.0	0.5	0.3	0.2	2.5	2.6	0.0	0.0	0.3	2.2	3.1	6.2	5.5	7.1	4.0	3.4	2.0	0.0	0.0	
Gardineroseris	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	
Goniastrea	0.0	0.8	0.9	1.8	0.5	0.3	4.8	0.5	0.9	0.0	0.7	0.8	0.7	0.0	0.0	0.0	0.2	0.0	0.0	1.1	2.5	2.0	
Goniopora/Aveopora	0.0	0.0	0.2	0.0	3.9	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Halopora	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hydnopora	3.7	1.8	1.4	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.8	1.2	0.6	1.2	0.0	0.6	0.0	0.6	1.3	
Lepidastrea	27.1	4.8	5.2	5.5	5.4	4.2	10.3	1.5	1.3	0.9	0.0	0.8	0.7	0.2	9.2	2.3	2.3	1.7	2.0	6.1	9.9	1.3	
Leptoseris/Pachyseris	0.0	0.8	0.3	1.0	2.1	7.3	1.7	0.0	3.1	0.0	3.0	1.1	3.0	0.0	0.0	0.0	0.2	0.4	0.6	0.3	0.6	7.2	
Lobophyllia/Symphyllia	0.0	0.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	
Merulina/Scapophyllia	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	4.5	0.0	0.0	
Millerpora	0.2	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.4	0.3	0.0	0.0	
Montastrea	28.4	4.5	22.4	4.0	0.0	0.6	1.5	0.5	0.0	7.0	0.0	0.3	0.0	0.5	12.2	27.0	10.1	2.1	0.3	4.7	1.2	0.7	
Montipora	5.9	33.5	18.4	33.9	18.7	30.2	25.9	16.5	48.9	70.4	46.7	15.5	31.1	0.8	29.5	8.4	22.9	46.2	38.0	26.8	47.2	43.8	
Mycidium	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Oculophyllia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Palythoa/Zeanthus	0.2	1.7	0.2	0.0	0.3	0.0	0.0	1.5	0.0	0.9	0.0	0.0	0.7	0.8	0.4	1.6	8.5	0.4	0.3	0.3	0.0	0.0	
Plexypora/Leptora	0.4	0.3	2.4	1.8	0.3	0.3	1.0	1.0	0.0	0.0	0.0	0.3	0.0	0.5	1.0	1.6	0.5	0.4	0.0	0.0	0.0	0.0	
Plexypora	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pocillopora	3.5	16.8	3.6	6.5	2.3	5.1	2.2	9.0	0.4	0.9	1.5	3.4	1.5	3.1	4.4	20.3	6.2	7.0	2.5	2.5	5.6	4.6	
Porites	0.0	7.2	5.9	7.3	26.5	13.0	7.9	20.5	4.0	7.8	29.6	18.5	0.0	6.0	8.4	4.8	3.4	5.7	25.9	8.1	13.0	12.4	
Psammocora	0.6	0.2	0.7	3.5	1.3	7.1	1.4	0.5	1.3	2.6	0.7	0.0	0.0	0.0	0.0	0.3	0.5	0.6	0.3	0.0	0.0	0.0	
Sarcophyton/Leptozoa	0.0	0.5	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Seriatopora	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Solenastrea/Sarcophyton/Cladella	13.9	2.3	3.5	3.8	3.1	0.8	0.0	4.5	4.0	0.0	0.0	0.0	0.0	4.4	41.7	11.4	7.1	20.8	7.8	17	11.7	0.0	
Stylophora/Dictyopora	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Stylocnemella	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Stylophora	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tubastrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tubastraea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	
Total # colonies	510	650	577	398	386	354	583	200	227	115	135	354	135	619	498	311	645	474	355	558	161	153	
Area surveyed, m <sup>2</sup>	100	70	100	100	100	100	100	100	100	60	100	100	100	100	50	50	100	100	100	100	100	100	

Table III.ii. Results from 2006 REA coral surveys around Tutuila and Aunu'u Islands.

Taxa	TUT-5	TUT-4	TUT-17	TUT-14	TUT-18	TUT-13	TUT-2	TUT-1	TUT-15	TUT-16	TUT-20	TUT-9	TUT-10	TUT-22	TUT-11	TUT-21
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.0	0.0	0.5	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
<i>Acropora</i>	3.4	3.6	8.0	2.9	<b>11.6</b>	<b>13.3</b>	5.3	1.1	5.6	<b>15.3</b>	3.9	0.0	0.3	8.0	9.5	7.3
<i>Astropora</i>	0.0	1.0	2.8	0.0	<b>12.9</b>	5.3	0.0	0.0	1.7	0.0	0.0	7.1	0.0	0.3	0.0	2.4
<i>Coccoloba</i>	0.4	3.1	2.8	0.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	1.0	0.0	1.0	0.0
<i>Cyathostrea</i>	0.0	0.0	0.0	0.0	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.4
<i>Diplastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0
<i>Echinophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.4	3.1	0.0	0.0	0.0
<i>Echinophyllia/Oxypora</i>	0.0	0.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.6	3.6	0.7
<i>Favia</i>	0.0	1.6	3.8	1.0	3.9	2.3	0.4	0.4	3.0	0.8	1.3	1.1	3.8	1.1	2.7	1.1
<i>Favites</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.4	2.6	3.5	0.0	0.6	0.2	3.1
<i>Fungia/Cycloseris</i>	3.0	6.8	0.0	2.4	0.0	0.0	6.1	4.6	0.0	0.8	3.9	0.4	1.4	2.6	<b>11.7</b>	0.2
<i>Galaxea</i>	0.4	3.6	0.5	0.5	1.3	0.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	8.9
<i>Gardineroseris</i>	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniopora</i>	0.4	3.6	3.8	1.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniopora/Alveopora</i>	8.3	0.5	0.0	0.0	0.0	0.0	0.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Helopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydnophora</i>	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.7	0.8	0.0	3.2	0.3	0.0	2.2	2.2
<i>Leptastrea</i>	7.1	7.8	7.1	6.2	4.5	1.1	2.0	0.7	3.6	9.9	2.6	8.9	0.0	2.0	1.5	1.8
<i>Leptoseris/Pachyseris</i>	0.8	2.6	0.0	<b>11.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
<i>Lobophyllia/Symphyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	7.6	0.0	0.7	0.4
<i>Merulina/Scapophyllia</i>	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Millepora</i>	0.0	0.0	0.0	0.0	0.0	1.9	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1
<i>Montastrea</i>	0.8	4.2	<b>33.5</b>	2.4	2.6	4.2	1.6	0.7	9.9	8.0	<b>15.2</b>	0.0	0.0	2.9	<b>16.5</b>	<b>20.3</b>
<i>Montipora</i>	9.8	8.9	0.0	<b>18.2</b>	<b>18.1</b>	<b>30.3</b>	<b>51.2</b>	<b>13.3</b>	<b>16.2</b>	<b>35.5</b>	<b>11.7</b>	<b>32.6</b>	7.2	<b>26.6</b>	13.1	3.8
<i>Mycodinium</i>	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oulophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Palythoa/Zoanthus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.6	0.0	1.1
<i>Pavona</i>	<b>12.8</b>	<b>25.5</b>	9.9	<b>22.5</b>	5.8	7.2	<b>11.1</b>	7.4	1.0	8.8	<b>61.0</b>	2.5	<b>11.4</b>	<b>13.1</b>	<b>16.5</b>	4.7
<i>Platygyra/Leptoria</i>	0.0	0.5	2.4	0.0	1.9	0.4	0.4	0.7	1.7	0.0	0.0	0.4	0.0	0.3	0.5	2.4
<i>Plesiastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pocillopora</i>	3.0	4.7	5.2	4.8	<b>18.1</b>	9.1	1.6	2.8	<b>12.9</b>	<b>15.6</b>	3.9	6.4	3.1	<b>12.3</b>	8.8	<b>19.4</b>
<i>Porites</i>	<b>49.2</b>	9.9	<b>13.7</b>	<b>21.5</b>	<b>17.4</b>	<b>20.5</b>	5.7	1.8	0.7	2.3	0.0	4.3	6.9	<b>10.0</b>	1.2	6.0
<i>Psammocora</i>	0.8	6.8	3.3	5.3	0.6	1.1	0.0	0.0	0.0	0.0	1.3	0.7	1.7	0.0	0.2	0.0
<i>Sandalolitha/Halimnira/Heppolitha</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.8	0.0	0.0	0.0	0.6	0.0	0.0
<i>Seriatopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinuaria/Lobophytum/Sarcophyton/Cladiaella</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>61.1</b>	<b>41.3</b>	0.0	0.0	<b>13.1</b>	<b>42.1</b>	<b>13.7</b>	1.7	<b>11.8</b>
<i>Stylocystis/Distichopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylocoenelia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Tubastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Turbinaria</i>	0.0	0.0	0.0	0.0	0.0	0.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other scleractinians	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0
<b>Total # colonies</b>	100	100	100.0	100	100	100	100	100	100	100	100	100	100	100	100	100
<b>Area surveyed, m<sup>2</sup></b>	50	50	50	50	50	50	50	50	50	50	50	25	25	100	100	100

Relative abundance of corals (# of colonies), by site and by taxon, Tutuila, American Samoa, 2006. % = % of total. Values representing >10% of numerical abundance at each site are in bold.



Table III.iii. Results from 2004 REA coral surveys around Ofu and Olosega Islands.

Relative abundance of corals (# of colonies), by site and by taxon, Ofu and Olosega, American Samoa, 2004. % = % of total. Values representing >10% of numerical abundance at each site are in bold.								
Taxa	Site							
	OLO-1	OLO-4	OLO-5	OLO-6	OFU-6	OFU-3	OFU-2	OFU-8
	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.0	0.2	0.0	0.0	0.0	1.1	0.9	0.1
<i>Acropora</i>	1.7	4.0	0.5	1.3	1.3	0.8	1.9	1.7
<i>Astreopora</i>	0.0	5.0	0.3	8.3	0.0	3.0	5.3	6.1
<i>Coscinaraea</i>	1.1	0.2	0.0	0.0	0.0	0.0	0.2	0.1
<i>Cyphastrea</i>	0.0	0.0	0.3	0.5	0.0	0.2	0.7	0.1
<i>Diploastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinophyllia</i>	0.0	0.2	0.0	0.0	1.0	0.7	0.4	0.0
<i>Echinopora</i>	0.8	0.0	0.5	0.0	0.6	0.3	0.7	0.0
<i>Favia</i>	1.4	8.2	5.7	5.3	<b>14.4</b>	<b>11.1</b>	5.1	4.3
<i>Favites</i>	0.0	1.7	2.5	1.3	2.2	2.3	1.4	1.0
<i>Fungia</i>	0.0	1.3	0.3	0.0	1.3	1.0	2.5	0.0
<i>Galaxea</i>	3.1	5.6	<b>19.4</b>	1.1	<b>20.4</b>	3.4	<b>12.6</b>	1.7
<i>Gardineroseris</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniastrea</i>	5.6	<b>25.3</b>	<b>13.9</b>	3.4	<b>15.3</b>	<b>15.2</b>	<b>18.1</b>	7.3
<i>Goniopora/Alveopora</i>	0.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0
<i>Heliopora</i>	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
<i>Hydnophora</i>	0.0	0.0	0.0	0.0	2.2	0.0	1.1	0.0
<i>Leptastrea</i>	0.0	4.4	0.5	6.9	0.3	5.6	1.9	4.6
<i>Leptoseris/Pachyseris</i>	0.0	0.2	0.0	0.0	1.6	0.0	0.0	0.0
<i>Lobophyllia/Symphyllia</i>	0.0	0.8	0.0	0.0	0.3	0.0	0.2	0.0
<i>Merulina/Scapophyllia</i>	0.0	0.0	0.0	0.0	1.9	0.2	0.2	0.0
<i>Millepora</i>	0.0	0.0	0.0	0.5	3.8	0.8	0.5	0.0
<i>Montastrea</i>	0.6	4.0	1.1	1.4	1.0	9.2	4.0	5.2
<i>Montipora</i>	<b>14.0</b>	<b>21.8</b>	6.0	<b>30.9</b>	6.1	<b>23.1</b>	5.3	<b>38.1</b>
<i>Mycedium</i>	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
<i>Oulophyllia</i>	0.0	0.4	0.0	0.8	1.3	0.7	0.9	0.4
<i>Palythoa/Zoanthus</i>	0.3	0.2	0.0	0.0	0.0	0.3	0.4	0.1
<i>Pavona</i>	2.2	2.9	1.9	1.1	1.3	2.3	2.1	1.4
<i>Platygyra/Leptoria</i>	0.6	5.9	3.3	4.2	<b>20.4</b>	5.6	<b>10.2</b>	4.6
<i>Pocillopora</i>	<b>10.1</b>	3.8	5.2	<b>10.7</b>	0.0	6.1	5.8	13.4
<i>Porites</i>	<b>33.8</b>	1.5	<b>19.9</b>	<b>15.4</b>	0.6	5.6	<b>15.6</b>	<b>5.6</b>
<i>Psammocora</i>	0.0	1.3	0.8	0.6	0.0	0.8	0.7	0.1
<i>Sandalolitha</i>	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
<i>Seriatopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinularia/Lobophytum/Sarcophyton</i>	<b>22.6</b>	0.6	<b>17.2</b>	5.9	1.9	0.3	1.4	3.9
<i>Stylaster/Distichopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylocoeniella</i>	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Turbinaria</i>	1.4	0.2	0.0	0.0	0.0	0.0	0.2	0.0
<b>Total # colonies</b>	358	478	366	624	313	610	570	716
<b>Area surveyed, m<sup>2</sup></b>	100	24	100	100	100	53.5	100	100

Table III.iv. Results from 2006 REA coral surveys around Ofu and Olosega Islands.

Taxa	Site											
	OLO-6	OLO-1	OLO-2	OLO-4	OFU-4	OFU-3	OLO-5	OFU-1	OFU-9	OFU-2	OFU-6	OFU-8
	%	%	%	%	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0	0.0	0.3	1.1	0.3
<i>Acropora</i>	2.3	1.8	1.3	1.7	1.9	1.2	2.1	3.5	1.9	4.3	1.1	3.7
<i>Astropora</i>	6.9	0.0	0.6	9.2	5.6	3.8	0.9	0.5	8.6	3.6	0.0	3.1
<i>Coscinaraea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.6
<i>Cyphastrea</i>	0.3	0.0	1.6	0.6	0.8	0.4	0.9	0.0	0.0	0.0	0.0	0.0
<i>Diploastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.5	0.0	0.0	0.0	0.0
<i>Echinophyllia</i>	0.0	0.0	0.0	0.0	0.8	0.0	0.3	0.0	0.0	0.2	0.0	0.0
<i>Echinophyllia/Oxypora</i>	0.3	0.4	0.0	0.0	0.3	0.0	0.3	0.5	0.0	0.6	1.1	0.6
<i>Favia</i>	1.4	3.9	3.5	2.0	1.3	4.3	2.1	3.5	0.6	0.9	8.8	1.5
<i>Favites</i>	4.9	1.3	7.7	2.9	6.3	6.1	2.1	4.0	3.5	4.2	4.6	5.2
<i>Fungia/Cycloseris</i>	0.0	0.0	2.2	0.6	2.6	1.2	7.5	2.5	0.0	1.1	0.4	0.0
<i>Galaxea</i>	1.2	2.6	4.2	3.7	5.3	2.0	<b>14.3</b>	7.0	1.9	4.2	<b>16.1</b>	3.7
<i>Gardineroseris</i>	0.0	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniastrea</i>	4.0	3.9	<b>26.9</b>	<b>11.8</b>	<b>27.2</b>	9.7	<b>29.3</b>	7.0	2.6	<b>18.4</b>	9.2	5.8
<i>Goniopora/Alveopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
<i>Helopora</i>	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydnophora</i>	0.6	0.0	0.6	0.0	0.3	0.6	1.5	0.0	0.0	0.0	0.8	0.3
<i>Leptastrea</i>	5.8	0.4	<b>10.6</b>	5.5	4.0	5.3	0.9	2.0	9.6	4.5	0.4	2.1
<i>Leptoseris/Pachyseris</i>	0.0	0.4	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.4	0.0
<i>Lobophyllia/Symphyllia</i>	0.0	0.0	0.0	0.3	0.8	0.2	0.6	0.0	0.0	0.5	0.0	0.0
<i>Merulina/Scapophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Millepora</i>	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.6
<i>Montastrea</i>	4.3	4.4	8.7	11.0	<b>10.6</b>	<b>13.2</b>	4.2	5.0	1.6	8.2	1.5	2.5
<i>Montipora</i>	<b>37.8</b>	<b>14.5</b>	4.8	<b>24.8</b>	6.9	<b>31.0</b>	3.6	<b>24.1</b>	<b>53.7</b>	<b>23.6</b>	<b>23.4</b>	<b>43.3</b>
<i>Mycedium</i>	0.0	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.0
<i>Oulophyllia</i>	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.3
<i>Palythoa/Zoanthus</i>	0.0	0.4	0.0	0.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
<i>Pavona</i>	2.9	0.9	9.0	4.0	4.8	3.2	7.8	6.5	2.2	5.3	4.2	3.4
<i>Platygyra/Leptoria</i>	5.2	1.3	1.9	4.0	2.9	5.1	3.6	3.5	0.6	3.6	<b>19.9</b>	4.0
<i>Plesiastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pocillopora</i>	9.8	<b>15.4</b>	8.3	<b>12.7</b>	<b>10.8</b>	8.9	<b>13.1</b>	<b>14.6</b>	8.0	<b>11.0</b>	2.7	<b>15.6</b>
<i>Porites</i>	8.9	<b>29.4</b>	4.8	2.3	3.2	2.2	1.2	4.5	3.8	4.7	0.0	2.8
<i>Psammocora</i>	0.0	0.0	0.6	0.6	0.0	0.8	0.0	0.5	0.0	0.0	0.0	0.0
<i>Sandalolitha/Halomitra/Herpolitha</i>	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0
<i>Seriopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinularia/Lobophytum/Sarcophyton</i>	1.4	7.9	1.0	0.6	0.5	0.0	2.7	2.5	1.0	0.5	3.1	0.6
<i>Stylaster/Distichopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylocenieella</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Tubastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Turbinaria</i>	0.9	<b>10.5</b>	0.3	1.2	0.8	0.0	0.0	3.5	0.0	0.3	0.0	0.0
<b>Total # colonies</b>	347	228	312	347	378	494	335	199	313	645	261	326
<b>Area surveyed, m<sup>2</sup></b>	50	50	50	20	25	25	25	50	50	50	50	50

Table III.v. Results from 2004 REA coral surveys Ta'u Island.

Taxa	Site								
	TAU-7	TAU-2	TAU-8	TAU-4	TAU-5	TAU-9	TAU-10	TAU-11	TAU-12
	%	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.0	0.7	0.0	0.0	1.1	0.0	0.0	0.3	0.2
<i>Acropora</i>	9.0	3.6	7.4	5.5	2.9	<b>12.3</b>	0.0	2.3	8.9
<i>Astreopora</i>	6.6	<b>22.5</b>	<b>10.8</b>	6.7	<b>20.6</b>	9.7	7.8	<b>12.6</b>	<b>10.0</b>
<i>Coscinaraea</i>	1.4	0.7	0.0	0.3	0.3	0.2	0.0	0.0	0.2
<i>Cyphastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
<i>Diploastrea</i>	0.0	0.5	0.0	0.3	0.0	0.0	0.0	0.0	0.4
<i>Echinophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinopora</i>	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.7
<i>Favia</i>	<b>12.5</b>	7.3	1.7	<b>16.3</b>	<b>24.4</b>	7.2	<b>64.1</b>	3.7	<b>11.3</b>
<i>Favites</i>	9.7	5.0	5.6	1.5	1.7	1.6	0.0	2.0	4.1
<i>Fungia</i>	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2
<i>Galaxea</i>	8.7	2.6	5.6	1.8	3.2	0.7	0.0	0.7	1.7
<i>Gardineroseris</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniastrea</i>	5.9	4.7	7.4	3.7	<b>12.9</b>	3.0	0.0	2.7	<b>11.1</b>
<i>GonioporaAlveopora</i>	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Heliopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydnophora</i>	0.3	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0
<i>Leptastrea</i>	1.4	1.9	1.3	5.2	1.1	8.3	4.7	2.3	<b>12.2</b>
<i>Leptoseris/Pachyseris</i>	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2
<i>Lobophyllia/Symphyllia</i>	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
<i>Merulina/Scapophyllia</i>	0.0	0.2	0.4	0.0	0.0	0.2	0.0	0.0	0.4
<i>Millepora</i>	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
<i>Montastrea</i>	6.9	2.6	<b>10.0</b>	6.4	1.1	2.3	0.0	0.0	2.8
<i>Montipora</i>	5.9	<b>18.5</b>	<b>17.7</b>	<b>36.2</b>	<b>12.0</b>	<b>22.2</b>	<b>12.5</b>	<b>47.5</b>	<b>18.3</b>
<i>Mycedium</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oulophyllia</i>	1.4	1.2	0.4	0.6	0.0	0.0	0.0	0.0	0.9
<i>Palythoa/Zoanthus</i>	0.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pavona</i>	3.1	1.4	2.2	0.3	0.6	1.6	0.0	2.0	0.9
<i>Platygyra/Leptoria</i>	9.4	3.3	6.9	2.8	1.1	0.7	0.0	0.3	3.7
<i>Pocillopora</i>	7.6	4.0	<b>14.3</b>	4.0	2.3	7.4	0.0	6.3	4.4
<i>Porites</i>	4.2	8.5	3.5	7.4	<b>13.5</b>	<b>20.8</b>	<b>10.9</b>	<b>17.3</b>	5.2
<i>Psammocora</i>	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
<i>Sandalolitha</i>	0.3	0.2	0.4	0.0	0.0	0.5	0.0	0.0	0.4
<i>Seriatopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinularia/Lobophytum/Sarcophyton</i>	1.4	5.0	3.5	0.6	0.3	0.5	0.0	0.0	0.0
<i>Stylaster/Distichopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylocoeniella</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Turbinaria</i>	1.4	2.4	0.0	0.0	0.3	0.2	0.0	0.0	0.0
<b>Total # colonies</b>	288	422	231	326	349	432	64	301	459
<b>Area surveyed, m<sup>2</sup></b>	37.5	37.5	50	75	75	68	100	100	66

Table III.vi. Results from 2006 REA coral surveys around Ta'u Island.

Relative abundance of corals (# of colonies), by site and by taxon, Ta'u, American Samoa, 2006. % = % of total. Values representing >10% of numerical abundance at each site are in bold.									
Taxa	Site								
	Tau-5	Tau-10	Tau-4	Tau-7	Tau-2	Tau-8	Tau-12	Tau-9	Tau-11
	%	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.7	1.1	0.3	0.0	1.2	0.2	0.2	0.0	0.2
<i>Acropora</i>	2.3	3.4	1.9	2.0	4.8	<b>10.2</b>	7.9	6.0	7.9
<i>Astreopora</i>	<b>46.5</b>	9.1	0.0	<b>14.3</b>	<b>15.8</b>	<b>24.6</b>	7.5	8.9	7.5
<i>Coscinaraea</i>	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.2	0.0
<i>Cyphastrea</i>	0.0	0.0	1.6	0.4	0.0	0.2	1.3	0.2	1.3
<i>Diploastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinophyllia</i>	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.2	0.2
<i>Echinophyllia/Oxypora</i>	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.4	0.2
<i>Favia</i>	0.3	1.1	3.5	3.7	1.8	1.5	2.7	1.9	2.7
<i>Favites</i>	<b>14.7</b>	<b>12.6</b>	<b>16.7</b>	<b>13.1</b>	9.9	4.9	5.9	6.2	5.9
<i>Fungia/Cycloseris</i>	2.3	0.0	1.6	0.0	0.0	0.6	0.5	0.2	0.5
<i>Galaxea</i>	2.7	5.7	3.2	3.7	5.1	5.1	2.2	1.9	2.1
<i>Gardineroseris</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniastrea</i>	1.7	4.0	<b>12.5</b>	<b>14.7</b>	3.9	7.6	<b>14.3</b>	4.7	<b>14.3</b>
<i>Goniopora/Alveopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Heliopora</i>	0.0	0.6	0.3	0.8	0.0	0.2	0.0	0.0	0.0
<i>Hydnophora</i>	0.0	2.9	<b>10.6</b>	2.4	2.4	4.2	11.8	17.1	<b>11.8</b>
<i>Leptastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
<i>Leptoseris/Pachyseris</i>	0.3	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.5
<i>Lobophyllia/Symphyllia</i>	0.3	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.5
<i>Merulina/Scapophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Millepora</i>	0.0	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0
<i>Montastrea</i>	1.7	0.6	9.6	9.0	8.4	6.6	7.0	4.5	7.0
<i>Montipora</i>	3.7	<b>37.7</b>	<b>10.9</b>	<b>14.7</b>	4.5	6.8	<b>20.8</b>	<b>23.5</b>	<b>20.7</b>
<i>Mycedium</i>	0.3	0.0	0.6	0.0	0.3	0.2	0.2	0.2	0.2
<i>Oulophyllia</i>	0.0	0.0	0.0	0.0	7.2	0.0	0.2	0.0	0.2
<i>Palythoa/Zoanthus</i>	0.0	0.0	0.0	0.0	7.2	0.0	0.2	0.0	0.2
<i>Pavona</i>	0.0	2.3	3.2	4.5	2.1	1.3	3.9	6.6	3.9
<i>Platygyra/Leptoria</i>	2.3	1.1	3.8	7.3	4.2	3.6	2.3	2.3	2.3
<i>Plesiastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pocillopora</i>	4.7	0.6	5.1	1.6	7.5	<b>12.7</b>	4.5	6.4	4.5
<i>Porites</i>	<b>14.4</b>	<b>13.1</b>	<b>13.1</b>	5.3	2.4	6.4	5.0	8.4	5.2
<i>Psammocora</i>	0.0	1.1	0.3	1.2	0.0	0.0	0.0	0.0	0.0
<i>Sandalolitha/Halomitra/Herpolitha</i>	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
<i>Seriatopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinularia/Lobophytum/Sarcophyton</i>	0.3	1.7	0.3	0.0	<b>10.4</b>	3.0	0.2	0.0	0.2
<i>Stylaster/Distichopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylocoeniella</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Tubastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Turbinaria</i>	0.3	0.6		0.8	0.0	0.0	0.0	0.0	0.0
<b>Total # colonies</b>	299	175	312	245	335	472	558	514	560
<b>Area surveyed, m<sup>2</sup></b>	50	50	25	50	25	50	50	50	50

**Table III.vii.** Results from 2004 REA coral surveys around Rose Atoll.

Relative abundance of corals (# of colonies), by site and by taxon, Rose Atoll, American Samoa, 2004. % = % of total. Values representing >10% of numerical abundance at each site are in bold.												
Taxa	Site											
	ROS 1	ROS 2	ROS 3	ROS 21	ROS 4	ROS 22	ROS 23	ROS 7	ROS 5	ROS 6	ROS 8/8P	ROS9/ 9P
	%	%	%	%	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Acropora</i>	<b>17.5</b>	4.3	6.2	0.8	1.6	3.2	9.2	2.0	0.4	1.4	1.1	2.0
<i>Astreopora</i>	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	<b>17.7</b>
<i>Coscinareea</i>	0.0	2.4	0.0	0.2	0.0	1.1	0.0	0.0	0.4	0.0	0.0	0.0
<i>Cyphastrea</i>	2.8	0.0	2.4	0.8	0.0	2.2	1.1	0.0	2.1	0.0	2.8	0.0
<i>Diploastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinophyllia</i>	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Favia</i>	4.5	3.5	5.5	3.0	0.4	3.9	2.1	0.0	6.4	1.0	6.2	<b>40.0</b>
<i>Favites</i>	0.6	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.9	0.0	0.0	0.0
<i>Fungia</i>	0.8	0.2	0.3	0.2	0.0	0.0	<b>10.6</b>	0.2	1.3	0.0	0.0	0.0
<i>Galaxea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gardineroseris</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniastrea</i>	0.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>GonioporaAlveopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
<i>Heliopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydnophora</i>	0.0	0.5	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
<i>Leptastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	3.5
<i>Leptoseris/Pachyseris</i>	2.8	0.9	1.7	1.7	0.4	0.0	0.0	0.0	0.9	0.0	0.0	0.0
<i>Lobophyllia/Symphyllia</i>	0.0	0.0	0.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Merulina/Scapophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
<i>Millepora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
<i>Montastrea</i>	<b>28.8</b>	<b>19.1</b>	<b>23.4</b>	<b>18.8</b>	<b>13.6</b>	<b>37.6</b>	<b>19.4</b>	1.8	<b>25.3</b>	<b>29.1</b>	6.7	0.0
<i>Montipora</i>	3.7	8.7	8.3	6.8	8.4	<b>12.9</b>	7.7	8.3	6.0	<b>22.9</b>	<b>14.6</b>	<b>28.5</b>
<i>Mycedium</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oulophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Palythoa/Zoanthus</i>	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pavona</i>	2.0	7.6	<b>15.9</b>	11.4	0.0	0.4	0.4	0.0	0.0	1.0	0.0	0.4
<i>Platygyra/Leptoria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
<i>Pocillopora</i>	<b>30.5</b>	<b>23.2</b>	0.0	<b>36.7</b>	<b>70.8</b>	<b>32.3</b>	<b>45.4</b>	<b>86.6</b>	<b>47.6</b>	<b>25.3</b>	0.0	0.0
<i>Porites</i>	0.3	4.3	0.0	0.2	3.2	1.8	2.5	0.6	1.3	4.1	<b>54.3</b>	6.5
<i>Psammocora</i>	0.3	1.2	0.7	2.1	0.0	0.7	1.1	0.0	0.9	0.7	3.6	0.1
<i>Sandalolitha</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Seriastopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinularia/Lobophytum/Sarcophyton</i>	4.8	<b>23.6</b>	<b>34.8</b>	<b>15.4</b>	1.6	2.2	0.4	0.6	6.0	<b>13.4</b>	0.6	0.8
<i>Stylaster/Distichopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylocoeniella</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Turbinaria</i>	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total # colonies</b>	354	423	290	474	250	279	284	509	233	292	357	950
<b>Area surveyed, m<sup>2</sup></b>	100	100	100	100	100	90	50	100	50	100	100	96

Table III.viii. Results from 2006 REA coral surveys around Rose Atoll..

Relative abundance of corals (# of colonies), by site and by taxon, Rose Atoll, American Samoa, 2006. % = % of total. Values representing >10% of numerical abundance at each site are in bold.											
Taxa	Site										
	ROS-2	ROS-1	ROS-8	ROS-6	ROS-9P	ROS-5	ROS-7	ROS-23	ROS-21	ROS-4	ROS-3
	%	%	%	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.3	0.0	0.0
<i>Acropora</i>	2.8	<b>12.4</b>	9.3	3.1	1.5	2.9	1.2	2.2	0.0	1.7	5.0
<i>Astreopora</i>	0.0	0.5	<b>16.4</b>	0.0	<b>14.6</b>	0.0	0.0	0.0	0.0	0.0	0.0
<i>Coscinaraea</i>	2.6	0.0	0.0	0.0	0.0	0.3	0.0	1.6	0.5	0.3	0.0
<i>Cyphastrea</i>	1.4	0.5	0.8	0.0	0.5	0.3	0.0	0.9	3.4	0.7	1.2
<i>Diploastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.2
<i>Echinophyllia/Oxypora</i>	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
<i>Favia</i>	1.9	8.1	5.2	0.8	<b>44.2</b>	1.9	0.6	7.2	1.3	2.4	1.3
<i>Favites</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
<i>Fungia/Cycloseris</i>	0.0	0.5	0.0	0.8	0.0	1.0	0.6	1.6	1.0	0.0	2.7
<i>Galaxea</i>	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
<i>Gardineroseris</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniastrea</i>	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>GonioporaAlveopora</i>	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
<i>Heliopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydnophora</i>	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.0
<i>Leptastrea</i>	0.0	0.0	3.8	0.0	2.3	0.3	0.0	0.0	0.3	0.0	0.0
<i>Leptoseris/Pachyseris</i>	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.2
<i>Lobophyllia/Symphyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
<i>Merulina/Scapophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Millepora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Montastrea</i>	<b>10.6</b>	<b>21.1</b>	2.5	<b>29.5</b>	0.0	<b>31.0</b>	0.6	<b>30.7</b>	<b>13.6</b>	<b>14.6</b>	8.3
<i>Montipora</i>	6.4	3.8	<b>14.0</b>	<b>28.7</b>	17.6	8.9	<b>23.3</b>	6.0	3.4	<b>15.6</b>	3.8
<i>Mycedium</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oulophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Palythoa/Zoanthus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pavona</i>	8.5	2.4	0.0	1.6	0.3	2.6	1.7	3.4	5.7	1.4	4.6
<i>Platygyra/Leptoria</i>	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Plesiastraea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pocillopora</i>	<b>24.1</b>	<b>38.3</b>	0.0	27.1	0.0	<b>45.7</b>	<b>68.6</b>	<b>37.3</b>	<b>50.7</b>	<b>53.6</b>	<b>66.4</b>
<i>Porites</i>	0.5	2.4	<b>46.6</b>	<b>7.8</b>	<b>16.8</b>	1.9	2.9	0.9	0.3	2.4	0.4
<i>Psammocora</i>	2.1	0.5	0.3	0.8	0.5	0.3	0.0	0.9	0.5	0.3	0.0
<i>Sandalolitha/Halomitra/Herpolitha</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Seriatopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinularia/Lobophytum/Sarcophyton</i>	<b>35.1</b>	8.9	0.0	0.0	0.0	1.3	0.6	4.7	<b>15.4</b>	6.1	5.6
<i>Stylaster/Distichopora</i>	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylocoeniella</i>	0.0	0.0	1.1	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Tubastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Turbinaria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total # colonies</b>	100	100	100	100	100	100	100	100	100	100	100
<b>Area surveyed, m<sup>2</sup></b>	50	60	50	50	45	50	50	50	50	50	50

This table does not include data from 8P, which was recorded at a different depth by Maragos  
 Data from ROS-1 is confounded by Maragos surveying 5 m of the 2nd transect line after Kenyon had already done so

Table III.ix. Results from 2004 REA coral surveys around Swains Island.

Relative abundance of corals (# of colonies), by site and by taxon, Swains Island, American Samoa, 2004. % = % of total. Values representing >10% of numerical abundance at each site are in bold.								
Taxa	Site							
	SWA-8	SWA-6	SWA-7	SWA-10	SWA-14	SWA-1	SWA-3	SWA-5
	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
<i>Acropora</i>	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.6
<i>Astreopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Coscinaraea</i>	0.0	0.0	0.4	0.0	0.2	1.7	0.0	0.0
<i>Cyphastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Diploastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Favia</i>	2.1	0.4	0.6	0.0	0.8	0.2	0.5	0.0
<i>Favites</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Fungia</i>	0.0	0.2	11.8	0.0	0.0	1.1	0.0	0.0
<i>Galaxea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gardineroseris</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniopora/Alveopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Heliopora</i>	0.3	0.0	0.4	0.0	0.8	0.0	0.2	0.0
<i>Hydnophora</i>	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0
<i>Leptastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Leptoseris/Pachyseris</i>	5.7	0.0	2.1	1.0	0.4	0.6	0.2	0.6
<i>Lobophyllia/Symphyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Merulina/Scapophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Millepora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Montastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Montipora</i>	19.6	31.3	28.4	31.3	40.0	51.6	35.8	12.5
<i>Mycedium</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oulophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Palythoa/Zoanthus</i>	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
<i>Pavona</i>	0.3	0.0	0.6	0.0	0.8	1.5	1.0	0.0
<i>Platygyra/Leptoria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pocillopora</i>	65.4	58.4	46.6	42.8	48.2	33.6	45.3	70.0
<i>Porites</i>	5.7	7.9	1.5	0.0	0.8	0.4	10.0	15.0
<i>Psammocora</i>	0.6	0.0	1.5	1.0	1.8	4.9	2.2	0.6
<i>Sandalolitha</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Seriatopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinularia/Lobophytum/Sarcophyton</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylaster/Distichopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylocoeniella</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.3	1.5	5.8	23.6	6.1	4.3	4.4	0.0
<i>Turbinaria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total # colonies</b>	332	517	468	208	512	467	408	160
<b>Area surveyed, m<sup>2</sup></b>	25	67	100	100	100	100	100	50

Table III.x. Results from 2006 REA coral surveys around Swains Island.

Number of coral colonies counted, by site and by taxon, Swains Island, American Samoa, 2006. % = % of total. Values representing >10% of numerical abundance at each site are in bold.								
Taxa	Site							
	SWA-10P	SWA-14	SWA-7	SWA-8	SWA-6	SWA-1	SWA-4	SWA-5P
	%	%	%	%	%	%	%	%
<i>Acanthastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Acropora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Astreopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Coscinaraea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Cyphastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Diploastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Echinophyllia/Oxyypora</i>	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
<i>Favia</i>	0.0	0.0	0.3	1.0	0.5	0.0	0.0	0.0
<i>Favites</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Fungia/Cycloseris</i>	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
<i>Galaxea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gardineroseris</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Goniastrea</i>	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
<i>GonioporaAlveopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Helopora</i>	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4
<i>Hydnophora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Leptastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Leptoseris/Pachyseris</i>	0.0	0.3	0.0	1.2	0.2	0.7	0.6	0.0
<i>Lobophyllia/Symphyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Merulina/Scapophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Millipora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Montastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Montipora</i>	<b>83.8</b>	<b>64.7</b>	<b>83.6</b>	<b>29.2</b>	<b>30.8</b>	<b>89.0</b>	<b>94.4</b>	<b>23.3</b>
<i>Mycedium</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oulophyllia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Palythoa/Zoanthus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pavona</i>	0.6	6.4	0.0	1.0	0.2	0.3	2.8	0.0
<i>Platygyra/Leptoria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Plesiastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pocillopora</i>	9.9	<b>18.4</b>	<b>14.7</b>	<b>62.9</b>	<b>61.4</b>	8.4	0.9	<b>50.7</b>
<i>Porites</i>	0.0	0.9	0.3	3.5	2.4	1.3	1.2	<b>25.6</b>
<i>Psammocora</i>	0.0	1.7	0.3	0.0	0.0	0.3	0.0	0.0
<i>Sandalolitha/Halomitra/Herpolitha</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Seriatopora</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sinularia/Lobophytum/Sarcophyton</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylaster/Distichopora</i>	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylacoeniella</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Stylophora</i>	0.9	7.6	0.3	0.0	4.1	0.0	0.0	0.0
<i>Tubastrea</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Turbinaria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total # colonies</b>	100	100	100	100	100	100	100	100
<b>Area surveyed, m<sup>2</sup></b>	50	50	50	50	50	50	50	50



## Appendix IV Reef Fish Surveys

**Table IV.i.** Total fish biomass (kg 100m<sup>-2</sup>) in American Samoa, measured on fish belts (dividing by 10 gives values in tons ha<sup>-1</sup>).

Year	Island	n	Total	Barracuda	Damsel	Emperor	Grouper	Jack	Parrotfish
2002	TUT	14	7.6 ± 4.6	0	0.30 ± 0.04	0.04 ± 0.02	0.16 ± 0.03	0.06 ± 0.05	0.59 ± 0.35
	OFU/ OLO	6	10.2 ± 2.0	0	0.40 ± 0.05	0.07 ± 0.05	0.67 ± 0.06	0.30 ± 0.24	0.70 ± 0.13
	TAU	6	7.7 ± 3.0	0	0.29 ± 0.06	0.85 ± 0.68	0.52 ± 0.16	0	0.84 ± 0.25
	ROS	12	15.4 ± 8.1	0	0.31 ± 0.08	0.96 ± 0.58	0.63 ± 0.13	0.67 ± 0.36	2.35 ± 1.71
	SWA	6	6.3 ± 3.6	0	0.28 ± 0.03	0.09 ± 0.05	0.85 ± 0.19	0.22 ± 0.13	0.02 ± 0.02
	Average	<b>44</b>	<b>9.4 ± 4.3</b>	<b>0</b>	<b>0.32 ± 0.05</b>	<b>0.40 ± 0.27</b>	<b>0.57 ± 0.11</b>	<b>0.25 ± 0.16</b>	<b>0.90 ± 0.49</b>
2004	TUT	22	9.4 ± 5.5	0	0.42 ± 0.11	0.14 ± 0.07	0.62 ± 0.25	0.15 ± 0.11	2.10 ± 0.83
	OFU/ OLO	8	14.3 ± 5.1	0	0.48 ± 0.08	0.17 ± 0.10	1.26 ± 0.29	0.06 ± 0.03	1.83 ± 0.81
	TAU	9	10.1 ± 4.4	0	0.27 ± 0.05	0.13 ± 0.10	0.75 ± 0.19	0.18 ± 0.09	1.19 ± 0.59
	ROS	14	23.7 ± 12.2	0	0.50 ± 0.07	3.00 ± 2.84	1.49 ± 0.26	0.50 ± 0.47	1.94 ± 0.50
	SWA	8	29.3 ± 20.1	16.3 ± 15.3	0.94 ± 0.13	0.17 ± 0.06	1.23 ± 0.19	0.54 ± 0.28	0.15 ± 0.08
	Average	<b>61</b>	<b>17.4 ± 9.5</b>	<b>3.3 ± 3.1</b>	<b>0.52 ± 0.09</b>	<b>0.72 ± 0.63</b>	<b>1.07 ± 0.24</b>	<b>0.29 ± 0.19</b>	<b>1.44 ± 0.56</b>
2006	TUT	22	4.5 ± 1.8	0	0.21 ± 0.03	0.10 ± 0.08	0.13 ± 0.03	0.11 ± 0.11	1.10 ± 0.38
	OFU/ OLO	12	5.4 ± 1.2	0	0.25 ± 0.04	0.11 ± 0.05	0.53 ± 0.12	0.02 ± 0.02	1.21 ± 0.30
	TAU	9	4.4 ± 1.6	0.6 ± 0.5	0.21 ± 0.03	0.30 ± 0.25	0.41 ± 0.08	0	0.67 ± 0.27
	ROS	14	22.8 ± 14.0	0	0.48 ± 0.07	1.62 ± 1.30	0.57 ± 0.09	0.29 ± 0.26	8.24 ± 5.42
	SWA	8	6.5 ± 2.9	0	0.16 ± 0.02	0.16 ± 0.09	0.38 ± 0.02	2.06 ± 1.58	0.19 ± 0.09
	Average	<b>65</b>	<b>8.7 ± 4.3</b>	<b>0.1 ± 0.1</b>	<b>0.26 ± 0.04</b>	<b>0.46 ± 0.35</b>	<b>0.40 ± 0.07</b>	<b>0.50 ± 0.39</b>	<b>2.28 ± 1.29</b>
All-years average			<b>11.8 ± 6.0</b>	<b>1.1 ± 1.1</b>	<b>0.37 ± 0.06</b>	<b>0.53 ± 0.42</b>	<b>0.68 ± 0.14</b>	<b>0.34 ± 0.25</b>	<b>1.54 ± 0.78</b>

Year	Island	n	Snapper	Surgeon	Trigger	Wrasse	Others
2002	TUT	14	0.17 ± 0.06	5.14 ± 3.62	0.13 ± 0.03	0.41 ± 0.24	0.58 ± 0.15
	OFU/ OLO	6	1.55 ± 0.46	4.58 ± 0.39	0.29 ± 0.07	0.32 ± 0.04	1.31 ± 0.54
	TAU	6	0.73 ± 0.33	2.61 ± 0.74	0.32 ± 0.08	0.48 ± 0.13	1.06 ± 0.53
	ROS	12	2.42 ± 1.40	5.27 ± 2.39	0.37 ± 0.10	1.13 ± 0.71	1.26 ± 0.67
	SWA	6	1.40 ± 0.72	0.43 ± 0.16	0.83 ± 0.11	0.12 ± 0.04	3.14 ± 2.21
	Average	<b>44</b>	<b>1.26 ± 0.59</b>	<b>3.61 ± 1.46</b>	<b>0.39 ± 0.08</b>	<b>0.49 ± 0.23</b>	<b>1.47 ± 0.90</b>
2004	TUT	22	0.32 ± 0.19	2.47 ± 0.79	0.30 ± 0.13	0.37 ± 0.19	3.74 ± 2.89
	OFU/ OLO	8	1.33 ± 0.82	5.12 ± 1.08	2.01 ± 1.05	0.32 ± 0.04	1.75 ± 0.77
	TAU	9	1.31 ± 0.69	2.07 ± 0.36	2.50 ± 1.78	0.39 ± 0.09	1.27 ± 0.43
	ROS	14	4.44 ± 3.27	6.94 ± 2.59	0.67 ± 0.18	0.74 ± 0.43	3.44 ± 1.57
	SWA	8	1.80 ± 0.72	2.59 ± 1.17	1.86 ± 0.70	0.27 ± 0.08	3.45 ± 1.33
	Average	<b>61</b>	<b>1.84 ± 1.14</b>	<b>3.84 ± 1.20</b>	<b>1.47 ± 0.77</b>	<b>0.42 ± 0.17</b>	<b>2.73 ± 1.39</b>
2006	TUT	22	0.15 ± 0.09	1.94 ± 0.73	0.13 ± 0.05	0.11 ± 0.02	0.50 ± 0.28
	OFU/ OLO	12	0.31 ± 0.08	2.00 ± 0.26	0.25 ± 0.12	0.16 ± 0.03	0.58 ± 0.18
	TAU	9	0.36 ± 0.10	0.93 ± 0.20	0.15 ± 0.02	0.19 ± 0.04	0.54 ± 0.11
	ROS	14	2.16 ± 1.39	7.98 ± 5.02	0.19 ± 0.04	0.22 ± 0.07	1.05 ± 0.39
	SWA	8	1.35 ± 0.40	1.25 ± 0.55	0.46 ± 0.04	0.10 ± 0.01	0.44 ± 0.06
	Average	<b>65</b>	<b>0.86 ± 0.41</b>	<b>2.82 ± 1.35</b>	<b>0.24 ± 0.06</b>	<b>0.16 ± 0.04</b>	<b>0.62 ± 0.20</b>
All-years average			<b>1.32 ± 0.72</b>	<b>3.42 ± 1.34</b>	<b>0.70 ± 0.30</b>	<b>0.36 ± 0.14</b>	<b>1.60 ± 0.80</b>

**Table IV.ii.** Large fish biomass (tail length > 50 cm; tons ha<sup>-1</sup>) in American Samoa, measured by towed-diver surveys.

Year	Island	n	Total	Barracuda	Grouper	Jack	Parrotfish
2002	TUT	13	0.048 ± 0.040	0.0025 ± 0.0021	0	0.0109 ± 0.0102	0.0013 ± 0.0008
	OFU/OLO	13	0.028 ± 0.017	0.0006 ± 0.0004	0.0003 ± 0.0003	0.0006 ± 0.0002	0.0084 ± 0.0029
	TAU	8	0.024 ± 0.013	0	0.0009 ± 0.0008	0.0007 ± 0.0003	0.0056 ± 0.0012
	ROS	17	0.143 ± 0.087	0.0372 ± 0.0257	0.0003 ± 0.0002	0.0535 ± 0.0418	0.0040 ± 0.0017
	SWA	9	0.256 ± 0.130	0.1198 ± 0.0588	0.0002 ± 0.0002	0.0498 ± 0.0355	0.0023 ± 0.0009
	<b>Average</b>	<b>60</b>	<b>0.100 ± 0.058</b>	<b>0.0320 ± 0.0174</b>	<b>0.0003 ± 0.0003</b>	<b>0.0231 ± 0.0176</b>	<b>0.0043 ± 0.0015</b>
2004	TUT	43	0.041 ± 0.016	0.0087 ± 0.0060	0.0009 ± 0.0004	0.0016 ± 0.0005	0.0112 ± 0.0028
	OFU/OLO	18	0.039 ± 0.025	0.0127 ± 0.0127	0	0.0009 ± 0.0007	0.0080 ± 0.0021
	TAU	18	0.030 ± 0.015	0.0003 ± 0.0003	0.0004 ± 0.0002	0.0003 ± 0.0003	0.0087 ± 0.0024
	ROS	22	0.098 ± 0.076	0.0009 ± 0.0009	0.0001 ± 0.0001	0.0676 ± 0.0655	0.0051 ± 0.0019
	SWA	14	0.164 ± 0.102	0.0385 ± 0.0239	0	0.0521 ± 0.0511	0.0039 ± 0.0017
	<b>Average</b>	<b>115</b>	<b>0.074 ± 0.047</b>	<b>0.0122 ± 0.0088</b>	<b>0.0003 ± 0.0001</b>	<b>0.0245 ± 0.0236</b>	<b>0.0074 ± 0.0022</b>
2006	TUT	44	0.042 ± 0.026	0.0038 ± 0.0031	0.0009 ± 0.0004	0.0228 ± 0.016	0.0037 ± 0.0009
	OFU/OLO	17	0.033 ± 0.014	0.0016 ± 0.0013	0.0005 ± 0.0004	0.0033 ± 0.0020	0.0087 ± 0.0024
	TAU	15	0.046 ± 0.019	0.0068 ± 0.0050	0	0.0047 ± 0.0033	0.0110 ± 0.0023
	ROS	21	0.068 ± 0.046	0.0212 ± 0.0210	0	0.0179 ± 0.0145	0.0044 ± 0.0011
	SWA	9	0.132 ± 0.085	0.0233 ± 0.0119	0	0.0659 ± 0.0530	0.0024 ± 0.0007
	<b>Average</b>	<b>106</b>	<b>0.064 ± 0.038</b>	<b>0.0113 ± 0.0085</b>	<b>0.0003 ± 0.0002</b>	<b>0.0229 ± 0.0178</b>	<b>0.0060 ± 0.0015</b>
<b>All-years average</b>			<b>0.079 ± 0.048</b>	<b>0.0185 ± 0.0115</b>	<b>0.0003 ± 0.0002</b>	<b>0.0235 ± 0.0197</b>	<b>0.0059 ± 0.0017</b>

Year	Island	n	Shark	Snapper	Surgeonfish	Wrasse	Others
2002	TUT	13	0.0088 ± 0.0082	0.0060 ± 0.0057	0.0004 ± 0.0003	0.0092 ± 0.0054	0.0104 ± 0.0078
	OFU/ OLO	13	0.0069 ± 0.0037	0.0056 ± 0.0018	0.0010 ± 0.0005	0.0011 ± 0.0007	0.0060 ± 0.0069
	TAU	8	0.0016 ± 0.0011	0.0040 ± 0.0014	0.0038 ± 0.0021	0.0040 ± 0.0038	0.0046 ± 0.0019
	ROS	17	0.0156 ± 0.0069	0.0193 ± 0.0041	0.0057 ± 0.0023	0.0027 ± 0.0021	0.0074 ± 0.0024
	SWA	9	0.0210 ± 0.0095	0.0461 ± 0.0154	0.0092 ± 0.0038	0.0053 ± 0.0046	0.0024 ± 0.0018
	<b>Average</b>	<b>60</b>	<b>0.0108 ± 0.0059</b>	<b>0.0162 ± 0.0057</b>	<b>0.0040 ± 0.0018</b>	<b>0.0045 ± 0.0033</b>	<b>0.0061 ± 0.0042</b>
2004	TUT	43	0.0045 ± 0.0019	0.0028 ± 0.0006	0.0066 ± 0.0017	0.0015 ± 0.0008	0.0036 ± 0.0013
	OFU/ OLO	18	0.0055 ± 0.0038	0.0041 ± 0.0014	0.0041 ± 0.0023	0.0017 ± 0.0012	0.0016 ± 0.0010
	TAU	18	0.0036 ± 0.0024	0.0021 ± 0.0007	0.0069 ± 0.0035	0.0069 ± 0.0042	0.0013 ± 0.0006
	ROS	22	0.0062 ± 0.0021	0.0086 ± 0.0019	0.0072 ± 0.0025	0.0009 ± 0.0009	0.0020 ± 0.0006
	SWA	14	0.0009 ± 0.0009	0.0204 ± 0.0040	0.0274 ± 0.0078	0.0165 ± 0.0115	0.0052 ± 0.0015
	<b>Average</b>	<b>115</b>	<b>0.0041 ± 0.0022</b>	<b>0.0076 ± 0.0017</b>	<b>0.0104 ± 0.0036</b>	<b>0.0055 ± 0.0037</b>	<b>0.0027 ± 0.0010</b>
2006	TUT	44	0.0040 ± 0.002	0.0010 ± 0.0003	0.0009 ± 0.0005	0.0028 ± 0.0015	0.0030 ± 0.0009
	OFU/ OLO	17	0.0061 ± 0.0014	0.0049 ± 0.0014	0.0006 ± 0.0003	0.0037 ± 0.0028	0.0054 ± 0.0017
	TAU	15	0.0047 ± 0.0024	0.0053 ± 0.0011	0.0012 ± 0.0007	0.0035 ± 0.0016	0.0104 ± 0.0030
	ROS	21	0.0100 ± 0.0050	0.0085 ± 0.0022	0.0015 ± 0.0005	0	0.0067 ± 0.0022
	SWA	9	0.0119 ± 0.0097	0.0100 ± 0.0020	0.0076 ± 0.0024	0.0086 ± 0.0035	0.0029 ± 0.0018
	<b>Average</b>	<b>106</b>	<b>0.0074 ± 0.0041</b>	<b>0.0060 ± 0.0014</b>	<b>0.0024 ± 0.0009</b>	<b>0.0037 ± 0.0019</b>	<b>0.0057 ± 0.0019</b>
<b>All-years average</b>			<b>0.0074 ± 0.0041</b>	<b>0.0099 ± 0.0029</b>	<b>0.0056 ± 0.0021</b>	<b>0.0046 ± 0.0030</b>	<b>0.0048 ± 0.0024</b>

**Table IV.iii.** Total fish densities (count 100m<sup>-2</sup>) in American Samoa, measured on fish belts.

Year	Island	n	Total	Butterflyfish	Damselfish	Emperor	Grouper	Jack
2002	TUT	14	184 ± 43	7.7 ± 1.6	70 ± 6	0.4 ± 0.1	2.0 ± 0.4	0.2 ± 0.1
	OFU/OLO	6	246 ± 47	9.5 ± 4.3	138 ± 19	0.5 ± 0.2	4.3 ± 0.3	0.8 ± 0.6
	TAU	6	198 ± 55	2.1 ± 0.7	120 ± 29	2.4 ± 2.2	3.1 ± 0.6	0
	ROS	12	304 ± 80	3.7 ± 0.8	205 ± 43	2.8 ± 1.4	3.7 ± 0.7	0.7 ± 0.3
	SWA	6	233 ± 38	6.6 ± 0.8	187 ± 28	0.1 ± 0.0	5.8 ± 0.6	0.9 ± 0.8
	Average	44	<b>233 ± 52</b>	<b>5.9 ± 1.6</b>	<b>144 ± 25</b>	<b>1.2 ± 0.8</b>	<b>3.8 ± 0.5</b>	<b>0.5 ± 0.4</b>
2004	TUT	22	200 ± 52	5.9 ± 1.3	85 ± 14	0.3 ± 0.1	2.0 ± 0.4	0.1 ± 0.1
	OFU/OLO	8	295 ± 87	7.5 ± 4.4	207 ± 50	0.8 ± 0.5	5.7 ± 0.7	2.6 ± 2.5
	TAU	9	146 ± 38	3.4 ± 0.7	91 ± 20	0.5 ± 0.5	4.1 ± 0.7	0.2 ± 0.1
	ROS	14	421 ± 94	6.4 ± 1.3	293 ± 47	5.9 ± 3.9	7.6 ± 1.0	0.3 ± 0.2
	SWA	8	527 ± 132	5.6 ± 1.0	452 ± 62	0.1 ± 0.1	6.2 ± 1.1	0.4 ± 0.2
	Average	61	<b>318 ± 81</b>	<b>5.8 ± 1.8</b>	<b>226 ± 38</b>	<b>1.5 ± 1.0</b>	<b>5.1 ± 0.8</b>	<b>0.7 ± 0.6</b>
2006	TUT	22	93 ± 15	2.0 ± 0.4	50 ± 6	0.4 ± 0.3	0.8 ± 0.2	0.2 ± 0.2
	OFU/OLO	12	201 ± 53	1.9 ± 0.4	132 ± 38	0.4 ± 0.1	3.3 ± 0.5	0.1 ± 0.0
	TAU	9	172 ± 36	2.7 ± 0.6	112 ± 19	0.6 ± 0.6	4.6 ± 0.4	0
	ROS	14	428 ± 94	2.8 ± 1.0	321 ± 44	4.5 ± 3.8	3.8 ± 0.6	0.4 ± 0.4
	SWA	8	142 ± 46	2.4 ± 0.6	87 ± 15	0.1 ± 0.0	2.8 ± 0.4	2.6 ± 2.4
	Average	65	<b>207 ± 49</b>	<b>2.4 ± 0.6</b>	<b>140 ± 25</b>	<b>1.2 ± 1.0</b>	<b>3.1 ± 0.4</b>	<b>0.6 ± 0.6</b>
All-years average			<b>253 ± 61</b>	<b>4.7 ± 1.3</b>	<b>170 ± 29</b>	<b>1.3 ± 0.9</b>	<b>4.0 ± 0.6</b>	<b>0.6 ± 0.5</b>
Year	Island	n	Parrotfish	Snapper	Surgeonfish	Triggerfish	Wrasse	Others
2002	TUT	14	5.7 ± 3.0	1.6 ± 0.4	81 ± 27	2.4 ± 0.6	13 ± 2	13 ± 2
	OFU/OLO	6	4.9 ± 1.0	6.1 ± 2.2	51 ± 5	2.8 ± 0.7	27 ± 3	35 ± 10
	TAU	6	6.6 ± 2.3	2.9 ± 1.6	28 ± 9	5.4 ± 1.8	27 ± 2	25 ± 6
	ROS	12	8.9 ± 4.9	13.1 ± 9.0	42 ± 12	1.7 ± 0.4	22 ± 2	19 ± 6
	SWA	6	0.1 ± 0.1	1.5 ± 0.2	9 ± 1	4.7 ± 0.6	18 ± 3	17 ± 3
	Average	44	<b>5.3 ± 2.2</b>	<b>5.0 ± 2.7</b>	<b>42 ± 11</b>	<b>3.4 ± 0.8</b>	<b>21 ± 2</b>	<b>22 ± 5</b>
2004	TUT	22	2.9 ± 0.6	1.7 ± 1.0	87 ± 26	3.0 ± 1.4	12 ± 1	22 ± 6
	OFU/OLO	8	2.7 ± 0.5	3.0 ± 1.1	35 ± 7	4.1 ± 1.1	26 ± 3	55 ± 16
	TAU	9	1.4 ± 0.6	4.0 ± 1.9	19 ± 4	4.9 ± 2.3	17 ± 3	21 ± 5
	ROS	14	5.7 ± 1.4	11.3 ± 6.2	66 ± 14	2.5 ± 0.4	23 ± 2	64 ± 17
	SWA	8	0.4 ± 0.2	1.4 ± 0.4	18 ± 4	7.5 ± 1.9	35 ± 6	189 ± 56
	Average	61	<b>2.6 ± 0.7</b>	<b>4.3 ± 2.1</b>	<b>45 ± 11</b>	<b>4.4 ± 1.4</b>	<b>23 ± 3</b>	<b>70 ± 20</b>
2006	TUT	22	2.3 ± 0.7	0.3 ± 0.1	27 ± 3	1.6 ± 0.8	8 ± 1	9 ± 2
	OFU/OLO	12	3.5 ± 1.0	2.4 ± 1.0	34 ± 3	1.3 ± 0.4	22 ± 3	21 ± 6
	TAU	9	0.8 ± 0.3	1.5 ± 0.5	24 ± 5	2.3 ± 0.4	23 ± 4	25 ± 6
	ROS	14	14.2 ± 9.8	10.9 ± 7.8	51 ± 15	1.5 ± 0.3	18 ± 2	21 ± 8
	SWA	8	0.3 ± 0.1	1.4 ± 0.4	19 ± 8	4.2 ± 0.5	22 ± 3	53 ± 15
	Average	65	<b>4.2 ± 2.4</b>	<b>3.3 ± 1.9</b>	<b>31 ± 7</b>	<b>2.2 ± 0.5</b>	<b>19 ± 3</b>	<b>26 ± 7</b>
All-years average			<b>4.0 ± 1.8</b>	<b>4.2 ± 2.2</b>	<b>39 ± 9</b>	<b>3.3 ± 0.9</b>	<b>21 ± 3</b>	<b>39 ± 11</b>

**Table IV.iv.** Large fish densities (total length > 50 cm; count per hectare) in American Samoa, measured on fish belts.

Year	Island	n	Total	Barracuda	Jack	Grouper	Parrotfish	Shark
2002	TUT	13	6 ± 5	1.38 ± 1.45	2.00 ± 1.88	0.06 ± 0.06	0.44 ± 0.21	0.12 ± 0.05
	OFU/ OLO	13	6 ± 3	0.14 ± 0.08	0.20 ± 0.08	0.07 ± 0.07	2.88 ± 1.28	0.30 ± 0.20
	TAU	8	4 ± 2	0	0.22 ± 0.08	0.28 ± 0.22	1.43 ± 0.31	0.11 ± 0.07
	ROS	17	31 ± 20	15.54 ± 10.64	8.86 ± 7.13	0.05 ± 0.04	0.96 ± 0.46	0.34 ± 0.16
	SWA	9	62 ± 24	30.47 ± 9.66	17.13 ± 7.94	0.09 ± 0.06	0.40 ± 0.15	0.53 ± 0.36
	Average	60	22 ± 11	9.51 ± 4.37	5.68 ± 3.42	0.11 ± 0.09	1.22 ± 0.48	0.28 ± 0.17
2004	TUT	43	7 ± 2	1.45 ± 0.92	0.30 ± 0.09	0.12 ± 0.04	1.70 ± 0.37	0.09 ± 0.04
	OFU/ OLO	18	5 ± 3	1.22 ± 1.22	0.17 ± 0.11	0	1.83 ± 0.53	0.10 ± 0.04
	TAU	18	4 ± 2	0.02 ± 0.02	0.07 ± 0.05	0.07 ± 0.04	1.64 ± 0.47	0.10 ± 0.07
	ROS	22	20 ± 17	0.73 ± 0.77	14.46 ± 14.80	0.02 ± 0.02	1.14 ± 0.41	0.26 ± 0.11
	SWA	14	28 ± 16	10.79 ± 6.17	6.51 ± 6.34	0	0.63 ± 0.28	0.03 ± 0.03
	Average	115	13 ± 8	2.84 ± 1.82	4.30 ± 4.28	0.04 ± 0.02	1.39 ± 0.41	0.12 ± 0.06
2006	TUT	44	5 ± 3	0.75 ± 0.61	2.61 ± 1.89	0.10 ± 0.03	0.61 ± 0.14	0.05 ± 0.03
	OFU/ OLO	17	6 ± 2	0.63 ± 0.57	0.49 ± 0.28	0.05 ± 0.04	1.96 ± 0.49	0.33 ± 0.13
	TAU	15	8 ± 4	2.44 ± 1.82	0.97 ± 0.69	0	2.44 ± 0.53	0.15 ± 0.09
	ROS	21	14 ± 10	6.21 ± 6.18	3.25 ± 2.56	0	0.90 ± 0.23	0.27 ± 0.10
	SWA	9	75 ± 57	10.71 ± 6.32	59.05 ± 48.86	0	0.44 ± 0.15	0.39 ± 0.25
	Average	106	21 ± 15	4.15 ± 3.10	13.27 ± 10.86	0.03 ± 0.01	1.27 ± 0.31	0.24 ± 0.12
All-years average			19 ± 11	5.50 ± 3.10	7.75 ± 6.19	0.06 ± 0.04	1.29 ± 0.40	0.21 ± 0.12

Year	Island	Snapper	Surgeonfish	Triggerfish	Tuna	Wrasse	Others
2002	TUT	0.41 ± 0.34	0.41 ± 0.29	0.03 ± 0.03	0.32 ± 0.31	0.18 ± 0.09	0.66 ± 0.31
	OFU/ OLO	1.80 ± 0.64	0.20 ± 0.09	0.17 ± 0.06	0.03 ± 0.03	0.17 ± 0.11	0.43 ± 0.24
	TAU	1.10 ± 0.42	0.77 ± 0.42	0.17 ± 0.12	0	0.17 ± 0.12	0.04 ± 0.29
	ROS	3.78 ± 0.81	0.91 ± 0.38	0.41 ± 0.20	0	0.08 ± 0.04	0.34 ± 0.56
	SWA	11.05 ± 4.66	1.01 ± 0.43	0.09 ± 0.09	0	0.18 ± 0.14	0.70 ± 0.05
	Average	3.63 ± 1.38	0.66 ± 0.32	0.17 ± 0.10	0.07 ± 0.07	0.15 ± 0.10	0.43 ± 0.29
2004	TUT	0.42 ± 0.09	1.04 ± 0.25	0.05 ± 0.03	0.01 ± 0.01	0.10 ± 0.05	1.92 ± 0.21
	OFU/ OLO	0.88 ± 0.30	0.61 ± 0.34	0	0	0.10 ± 0.04	0.32 ± 0.45
	TAU	0.46 ± 0.17	1.00 ± 0.51	0.05 ± 0.03	0	0.17 ± 0.09	0.20 ± 0.47
	ROS	1.47 ± 0.37	1.06 ± 0.38	0.07 ± 0.05	0	0.02 ± 0.02	0.53 ± 0.16
	SWA	4.28 ± 1.00	5.00 ± 1.50	0.13 ± 0.06	0	0.22 ± 0.09	0.51 ± 0.80
	Average	1.50 ± 0.39	1.74 ± 0.59	0.06 ± 0.03	0	0.12 ± 0.06	0.70 ± 0.42
2006	TUT	0.17 ± 0.05	0.11 ± 0.04	0.06 ± 0.03	0.03 ± 0.02	0.09 ± 0.03	0.34 ± 0.22
	OFU/ OLO	1.40 ± 0.47	0.14 ± 0.06	0.23 ± 0.08	0.05 ± 0.04	0.10 ± 0.05	0.38 ± 0.10
	TAU	1.03 ± 0.20	0.23 ± 0.15	0.23 ± 0.09	0.06 ± 0.04	0.26 ± 0.08	0.17 ± 0.43
	ROS	1.97 ± 0.59	0.31 ± 0.10	0.27 ± 0.16	0.08 ± 0.04	0	0.38 ± 0.19
	SWA	1.96 ± 0.29	1.61 ± 0.51	0.10 ± 0.10	0	0.44 ± 0.15	0.10 ± 0.31
	Average	1.30 ± 0.32	0.48 ± 0.17	0.18 ± 0.09	0.04 ± 0.03	0.18 ± 0.06	0.27 ± 0.25
All-years average		2.14 ± 0.69	0.96 ± 0.36	0.14 ± 0.07	0.04 ± 0.03	0.15 ± 0.07	0.47 ± 0.32

# APPENDICES