

## Appendix A. Rose Atoll NWR Species Lists

### A.1 Lists of Observed Species

Table A-1. Stony Coral List for Rose Atoll

Species*	IUCN Status**
<b><i>Acanthastrea brevis</i></b>	VU
<i>Acanthastrea echinata</i>	LC
<b><i>Acropora aspera</i></b>	VU
<i>Acropora cerealis</i>	LC
<i>Acropora digitifera</i>	NT
<i>Acropora exquisita</i>	DD
<i>Acropora gemmifera</i>	LC
<b><i>Acropora globiceps</i></b>	VU
<i>Acropora granulosa</i>	NT
<i>Acropora humilis</i>	NT
<i>Acropora kirstyae</i>	VU
<i>Acropora latistella</i>	LC
<i>Acropora longicyathus</i>	LC
<i>Acropora loripes</i>	NT
<i>Acropora nana</i>	NT
<i>Acropora nasuta</i>	NT
<b><i>Acropora paniculata</i></b>	VU
<b><i>Acropora retusa</i></b>	VU
<i>Acropora samoensis</i>	LC
<i>Acropora selago</i>	NT
<i>Acropora sp.</i>	not listed
<i>Acropora squarrosa</i>	LC
<i>Acropora tenuis</i>	NT
<i>Acropora valida</i>	LC
<b><i>Alveopora verrilliana</i></b>	VU
<b><i>Astreopora cucullata</i></b>	VU
<i>Astreopora listeri</i>	LC
<i>Astreopora myriophthalma</i>	LC
<i>Astreopora ocellata</i>	LC
<b><i>Barabattoia laddi</i></b>	VU
<i>Coeloseris mayeri</i>	LC
<i>Coscinaraea columna</i>	LC
<i>Coscinaraea exesa</i>	LC
<i>Cycloseris fragilis</i>	LC
<i>Cyphastrea chalcidicum</i>	LC
<i>Cyphastrea decadia</i>	LC
<i>Cyphastrea microphthalma</i>	LC
<i>Cyphastrea serailia</i>	LC
<i>Echinophyllia aspera</i>	LC
<i>Echinopora lamellosa</i>	LC
<i>Favia fava</i>	LC

Species*	IUCN Status**
<i>Favia matthaii</i>	NT
<i>Favia maxima</i>	NT
<i>Favia pallida</i>	LC
<i>Favia rotumana</i>	LC
<i>Favia speciosa</i>	LC
<i>Favia stelligera</i>	NT
<i>Favites flexuosa</i>	NT
<i>Favites halicora</i>	NT
<i>Favites russelli</i>	NT
<i>Favites</i> sp.	not listed
<i>Fungia concinna</i>	LC
<i>Fungia granulosa</i>	LC
<i>Fungia repanda</i>	LC
<i>Fungia scutaria</i>	LC
<i>Galaxea fascicularis</i>	NT
<i>Goniastrea pectinata</i>	LC
<i>Goniastrea retiformis</i>	LC
<i>Goniopora somaliensis</i>	LC
<i>Herpolitha limax</i>	LC
<i>Hydnophora exesa</i>	NT
<i>Isopora brueggemanni</i>	VU
<i>Isopora palifera</i>	NT
<i>Leptastrea bewickensis</i>	NT
<i>Leptastrea pruinosa</i>	LC
<i>Leptastrea purpurea</i>	LC
<i>Leptastrea</i> sp. [small round calices]	not listed
<i>Leptoseris foliosa</i>	LC
<b><i>Leptoseris incrustans</i></b>	VU
<i>Leptoseris mycetoseroides</i>	LC
<i>Leptoseris scabra</i>	LC
<i>Leptoseris</i> sp. [small round calices]	not listed
<b><i>Leptoseris yabei</i></b>	VU
<i>Lobophyllia corymbosa</i>	LC
<i>Lobophyllia hemprichii</i>	LC
<i>Merulina ampliata</i>	LC
<i>Millepora platyphylla</i> ***	LC
<i>Montastrea annuligera</i>	NT
<i>Montastrea curta</i>	LC
<i>Montipora aequituberculata</i>	LC
<b><i>Montipora angulata</i></b>	VU
<b><i>Montipora calcarea</i></b>	VU
<b><i>Montipora caliculata</i></b>	VU
<i>Montipora danae</i>	LC
<i>Montipora efflorescens</i>	NT
<i>Montipora foliosa</i>	NT
<i>Montipora foveolata</i>	NT
<i>Montipora hoffmeisteri</i>	LC

Species*	IUCN Status**
<i>Montipora incrassata</i>	NT
<i>Montipora informis</i>	LC
<b><i>Montipora lobulata</i></b>	VU
<i>Montipora nodosa</i>	NT
<i>Montipora peltiformis</i>	NT
<i>Montipora</i> sp. [bright blue]	not listed
<i>Montipora spumosa</i>	LC
<i>Montipora tuberculosa</i>	LC
<i>Montipora undata</i>	NT
<i>Montipora venosa</i>	NT
<i>Montipora verrucosa</i>	LC
<i>Oulophyllia crispa</i>	NT
<i>Oxypora glabra</i>	LC
<i>Pavona chriquiensis</i>	LC
<i>Pavona clavus</i>	LC
<b><i>Pavona decussata</i></b>	VU
<i>Pavona explanulata</i>	LC
<i>Pavona maldivensis</i>	LC
<i>Pavona minuta</i>	NT
<i>Pavona varians</i>	LC
<b><i>Pavona venosa</i></b>	VU
<i>Platygyra carnosus</i>	NT
<i>Platygyra contorta</i>	LC
<i>Platygyra daedalea</i>	LC
<i>Platygyra lamellina</i>	NT
<i>Platygyra pini</i>	LC
<i>Platygyra ryukyuensis</i>	NT
<i>Plesiastrea versipora</i>	LC
<i>Pocillopora brevicornis</i>	not listed
<i>Pocillopora damicornis</i>	LC
<i>Pocillopora eydouxi</i>	NT
<i>Pocillopora meandrina</i>	LC
<i>Pocillopora molokensis</i>	DD
<i>Pocillopora verrucosa</i>	LC
<i>Porites australiensis</i>	LC
<i>Porites lichen</i>	LC
<i>Porites lobata</i>	NT
<i>Porites lutea</i>	LC
<i>Porites rus</i>	LC
<i>Porites solida</i>	LC
<i>Porites superfusa</i>	not listed
<i>Porites vauhani</i>	LC
<i>Psammocora contigua</i>	NT
<i>Psammocora haimeana</i>	LC
<i>Psammocora nierstraszi</i>	LC
<i>Psammocora profundacella</i>	LC
<i>Scapophyllia cylindrica</i>	LC

Species*	IUCN Status**
<i>Stylaster cf. elegans</i> ***	not listed
<i>Stylocoeniella armata</i>	LC
<i>Stylocoeniella guentheri</i>	LC
<i>Stylophora pistillata</i>	NT
<i>Symphyllia agaricia</i>	LC
<i>Symphyllia recta</i>	LC
<i>Turbinaria frondens</i>	LC
<b><i>Turbinaria mesenterina</i></b>	VU
<b><i>Turbinaria reniformis</i></b>	VU
<b><i>Turbinaria stellulata</i></b>	VU

\* The 19 species in bold were petitioned by the Center for Biological Diversity for listing under the U.S. Endangered Species. The NOAA NMFS found the 12 species underlined warrant listing as threatened.

\*\* DD = Data Deficient, LC = Least Concern, NT = Near Threatened, and VU = Vulnerable.

\*\*\*Hydrozoan coral.

Sources: Kenyon et al. (2010, 2011), IUCN (2008).

**Table A-2. Fish List for Rose Atoll**

Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Abudefduf</i> spp.	Sergeant major		
<i>Acanthurus achilles</i>	Achilles tang		CB, P
<i>Acanthurus albipectoralis</i>	Whitefin surgeonfish		
<i>Acanthurus blochii</i>	Ringtail surgeonfish		
<i>Acanthurus glaucoparievus</i> (or <i>A.nigricauda</i> ?)			CB
<i>Acanthurus guttatus</i>	Whitespotted surgeonfish		
<i>Acanthurus lineatus</i>	Striped surgeonfish		
<i>Acanthurus mata</i>			CB, P
<i>Acanthurus nigricans</i>	Whitecheek surgeonfish	pone-i'usina	
<i>Acanthurus nigricauda</i>	Blackstreak surgeonfish	pone-i'usina	
<i>Acanthurus nigrofuscus</i>	Brown surgeonfish	ponepone	CB
<i>Acanthurus nigroris</i>			CB, RF, P
<i>Acanthurus olivaceus</i>	Orangeband surgeonfish	pone-apasama, afinamea	RF
<i>Acanthurus pyroferus</i>	Mimic surgeonfish	pone-i'usama	LF, P
<i>Acanthurus thompsoni</i>			P
<i>Acanthurus triostegus</i>	Convict tang	manini	CB, RF
<i>Acanthurus xanthopterus</i>	Yellowfin surgeonfish		
<i>Adioryx microstomus</i>			CB
<i>Adioryx spinifer</i>			CB, P
<i>Adioryx tiere</i>			Lagoon
<i>Aluterus scriptus</i>	Scrawled filefish		
<i>Amphiprion chrysopterus</i>			Reef front
<i>Anampses twistii</i>	Yellowbreasted wrasse	sugale-tatanu	
<i>Anthias lori</i>			Reef front
<i>Anthias pascalus</i>			Reef front
<i>Aphareus furca</i>	Smalltooth jobfish	palu-aloalo	
<i>Aphareus furcatus</i>			P

Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Apogon apogonides</i>	Goldbelly cardinalfish		
<i>Aprion virescens</i>	Green jobfish	asoama, utu	LF, P
<i>Arothron meleagris</i>	Guineafowl pufferfish	sue-puleuli (dark), sue-lega (yellow)	
<i>Balistapus undulatus</i>	Orange-lined triggerfish	sumu-aimaunu	CB, LF, P
<i>Balistoides viridescens</i>			Reef front
<i>Belonidae</i>			RF
<i>Belonoperca chabanaudi</i>			Reef front
<i>Bodianus anthioides</i>			Reef front
<i>Bodianus axillaris</i>			
<i>Bodianus diana</i>			
<i>Bodianus loxozonus</i>	Blackfin hogfish		
<b><i>Bolbometopon muricatum</i></b>	<b>Bumphead parrotfish</b>		
<i>Caesio teres</i>	Yellow and bluebackfusilier		
<i>Calotomus carolinus</i>	Carolines parrotfish		
<i>Calotomus zonarchus</i>	Yellowbar parrot		
<i>Cantherhines dumerili</i>	Barred filefish	pa'umalō	
<i>Canthidermis dumerili</i>	Yelloweye filefish		Reef front
<i>Canthigaster solandri</i>	Spotted toby	sue-mimi	CB
<i>Canthigaster valentini</i>	Black-saddled toby	sue-mu	
<i>Caracanthus maculatus</i>	Spotted croucher		
<i>Carangoides ferdau</i>	Blue trevally (Barred trevally)		
<i>Carangoides orthogrammus</i>	Yellow-spotted trevally (Island jack)		
<i>Caranx ignoblis</i>	Giant trevally		
<i>Caranx lugubris</i>	Black trevally		P
<i>Caranx melampygius</i>	Bluefin trevally	malauli-matalapo'a	RF
<i>Caranx sexfasciatus</i>	Bigeye trevally		
<b><i>Carcharhinus amblyrhynchos</i></b>	<b>Gray reef shark</b>		<b>RF</b>
<b><i>Carcharhinus melanopterus</i></b>	<b>Blacktip reef shark</b>	<b>apeape, malie-alamata</b>	<b>RF</b>
<b><i>Triaenodon obesus</i></b>	<b>Whitetip reef shark</b>		<b>RF, P</b>
<i>Centropyge bispinosus</i>	Two-spined angelfish (Dusky angelfish)	tu'u'u-alomu	CB
<i>Centropyge flavissimus</i>	Lemonpeel angelfish	tu'u'u-sama, tu'u'u-lega	CB, P
<i>Centropyge heraldi</i>			CB
<i>Centropyge loriculus</i>	Flame angelfish	tu'u'u-tusiuli	
<i>Centropyge multifasciata</i>	Barred angelfish		
<b><i>Cephalopholis argus</i></b>	<b>Peacock grouper</b>	<b>gatala-uli</b>	<b>CB, LF, P</b>
<i>Cephalopholis guttatus</i>			Reef front
<b><i>Cephalopholis leopardus</i></b>	<b>Leopard grouper</b>		
<b><i>Cephalopholis miniata</i></b>			
<i>Cephalopholis n. sp.</i>			Reef front

Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Cephalopholis spiloparaea</i>	Strawberry grouper		
<i>Cephalopholis urodelus</i>			CB, LF, P
<i>Cephalopholis urodeta</i>	Flagtail grouper	<b>mata'ele</b>	
<i>Chaetodon auriga</i>	Threadfin butterflyfish	si'u, i'uusamasama	CB, LF, P
<i>Chaetodon bennetti</i>			Reef front
<i>Chaetodon citrinellus</i>	Speckled butterflyfish	tifitifi-moamanu	CB, LF
<i>Chaetodon ephippium</i>	Saddled butterflyfish	tifitifi-tauli	CB, LF, P
<i>Chaetodon flavirostris</i>			Lagoon
<i>Chaetodon kleinii</i>			
<i>Chaetodon lineolatus</i>	Lined butterflyfish		
<i>Chaetodon lunula</i>	Raccoon butterflyfish	tifitifi-laumea	CB, LF, P
<i>Chaetodon lunulatus</i>	Redfin butterflyfish	tifitifi-manifi	
<i>Chaetodon mertensii</i>	Oval butterflyfish		
<i>Chaetodon ornatissimus</i>	Ornate butterflyfish		
<i>Chaetodon pelewensis</i>	Dot & dash butterflyfish	tifitifi-tusiloloa	CB RF LF P
<i>Chaetodon quadrimaculatus</i>	Fourspot butterflyfish	tifitifi-segasega	CB, LF, P
<i>Chaetodon reticulatus</i>	Reticulated butterflyfish	tifitifi-maono	CB, P
<i>Chaetodon speculum</i>			
<i>Chaetodon trifascialis</i>			LF
<i>Chaetodon trifasciatus</i>			CB, LF
<i>Chaetodon ulietensis</i>	Pacific double-saddle butterflyfish	tifitifi-gutu'uli	CB
<i>Chaetodon unimaculatus</i>			LF
<i>Chaetodon vagabundus</i>	Vagabond butterflyfish	tifitifi-matapua'a	CB
<i>Chanos chanos</i>	Milkfish		
<i>Cheilinus chlorourus</i>			LF
<i>Cheilinus oxycephalus</i>			LF
<i>Cheilinus rhodochrous</i>			CB, LF
<i>Cheilinus trilobatus</i>			LF
<i>Cheilinus undulatus</i>	<b>Maori wrasse</b>		
<i>Cheilio inermis</i>			
<i>Cheliodipterus quinquelineatus</i>	Fivelined cardinalfish	fō	CB
<i>Chlorurus frontalis</i>	Tan-faced parrotfish (Reefcrest parrotfish)		
<i>Chlorurus japanensis</i>	Japanese parrotfish	fuga-si'umū (IP), laea-ulusama (TP)	
<i>Chlorurus microrhinos</i>	Steephead parrotfish	laea (sm), ulumato (med), galo (lg)	
<i>Chlorurus sordidus</i>	Bullethead parrotfish	fuga-gutumū (IP), fugausi-tuavela (TP)	
<i>Chromis acares</i>	Midget chromis	tu'u'u-fō	
<i>Chromis agilis</i>	Reef chromis (Agile chromis)		
<i>Chromis caerulea</i>			RF, LF, P

Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Chromis iomelas</i>	Pacific half-and-half chromis	tu'u'u-i'usina	CB, P
<i>Chromis margaritifer</i>	Bicolor chromis	tu'u'u-l'usina	P
<i>Chromis vanderbilti</i>	Vanderbilt's chromis	Tu'u'u-fō	
<i>Chromis viridis</i>	Blue-green chromis	i'alanumoana, tu'u'u-segasega	
<i>Chromis xanthura</i>	Pale-tail chromis		
<i>Chrysiptera biocellata</i>	Twospot demoiselle		
<i>Chrysiptera brownriggii</i>	Surge damselfish		
<i>Chrysiptera glauca</i>	Gray demoiselle		
<i>Chrysiptera taupou</i>	South sea devil	tu'u'u-mo'o, vaiuli-sama	
<i>Cirrhilabrus punctatus</i>	Dotted wrasse		
<i>Cirrhilabrus scottorum</i>	Redtailed wrasse (Scott's wrasse)		
<i>Cirrhilabrus</i> sp.			RF, LF
<i>Cirrhites pinnulatus</i>	Stocky hawkfish		
<i>Cirripectes polyzona</i>	Barred blenny	mano'o	
<i>Cirripectes stigmaticus</i>	Red-streaked blenny		
<i>Cirripectes variolosus</i>	Red-speckled blenny	mano'o	CB
<i>Coris aygula</i>	Clown coris	sugale-uluto'i	RF
<i>Coris gaimard</i>	Yellowtail coris	sugale-mūmū, sugale-tala'ula	RF
<i>Coryphopterus duospilus</i>	Twospot sand goby		
<i>Ctenochaetus cyanocheilus</i>	Bluelipped bristletooth		
<i>Ctenochaetus flavicauda</i>	Whitetail bristletooth		
<i>Ctenochaetus striatus</i>	Striped bristletooth (Lined bristletooth)	pone (adults), pala'ia, logoulia (schooling juv)	CB, LF, P
<i>Ctenochaetus strigosus</i>	Spotted surgeonfish		CB
<i>Ctenogobiops pomastictus</i>	Gold-speckled shrimpgoby		
<i>Dascyllus aruanus</i>	Humbug dascyllus	mamo	RF, LF, P
<i>Dascyllus reticulatus</i>	Reticulated dascyllus		RF
<i>Dascyllus trimaculatus</i>	Threespot dascyllus	tu'u'u-pulelua	
<i>Diodon hystrix</i>	Porcupinefish	tauta, tautu	CB, P
<i>Echeneis naucrates</i>	Sharksucker		
<i>Ecsenius fourmanoiri</i>	Fourmanoir's blenny		
<i>Elagatis bipinnulata</i>	Rainbow runner		
<i>Epibulus insidiator</i>	Slingjaw wrasse		
<b><i>Epinephelus hexagonatus</i></b>	<b>Honeycomb grouper</b>		
<b><i>Epinephelus merra</i></b>	<b>Dwarf spotted grouper</b>	<b>gatala-aloalo, gatala-pulepule</b>	<b>CB, RF, LF</b>
<b><i>Epinephelus tauvina</i></b>			
<i>Eviota guttata</i>	Spotted pygmy goby		
<i>Eviota punctulata</i>	Green bubblegoby		
<i>Fistularia commersonii</i>	Cornetfish	taoto-ama, taotao	

Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Flammeo opercularis</i>			Lagoon
<i>Flammeo sammara</i>			CB
<i>Forcipiger flavissimus</i>	Longnose butterflyfish (Forcepsfish)	gutumanu	CB, P
<i>Forcipiger longirostris</i>	Big longnose butterflyfish	gutumanu	
<i>Glyphidodontops cyaneus</i>			CB, RF, P
<i>Gnathodentex aureolineatus</i>	Yellowspot emperor (Striped large-eye bream)	mumu, tolai	CB, P
<i>Gnatholepis cauerensis</i>	Shoulderspot goby		
<i>Gomphosus varius</i>	Bird wrasse	gutusi'o, gutu'umi, sugale-lupe	CB, LF, P
<b><i>Gracila albomarginata</i></b>	<b>Masked grouper</b>		
<i>Gymnosarda unicolor</i>			Reef front
<i>Gymnothorax javanicus</i>	Giant moray		
<i>Gymnothorax meleagris</i>	Turkey moray		
<i>Gymnothorax pictus</i>	Peppered moray		
<i>Halichoeres hortulanus</i>	Checkerboard wrasse	sugale-a'au, sugale- pagota, ifigi	CB, RF
<i>Halichoeres melasmapomus</i>			Reef front
<i>Halichoeres ornatissimus</i>	Ornate wrasse		
<i>Halichoeres trimaculatus</i>	Threespot wrasse	lape, sugale-pagota	RF, LF
<i>Hemigymnus fasciatus</i>	Barred thicklip	sugale-gutumafia	
<i>Hemitaurichthys polylepis</i>			Reef front
<i>Hemitaurichthys thompsoni</i>	Gray butterflyfish (Thompson's butterflyfish)		
<i>Heniochus chrysostomus</i>	Pennant bannerfish	laulaufau-laumea	
<i>Heniochus monoceros</i>	Masked bannerfish		
<i>Heniochus varius</i>			
<i>Kyphosus</i> sp.	Chub	nanue	
<i>Labrichthys unilineatus</i>			
<i>Labroides bicolor</i>	Bicolor cleaner wrasse	sugale-i'usina	CB, P
<i>Labroides dimidatus</i>	Bluestreak cleaner wrasse	sugale-mo'otai	CB, LF, P
<i>Labroides praetextatus</i>	Knife razorfish		
<i>Labroides rubrolabiatus</i>	Redlip cleaner wrasse		CB, P
<i>Labropsis</i> sp.			Reef front
<i>Labropsis xanthonota</i>	Wedgetail wrasse (Yellowback tubelip wrasse)		
<i>Lethrinus erythracanthus</i>	Yellowfin emperor		
<i>Lethrinus rubrioperculatus</i>			RF, LF, P
<i>Lethrinus xanthochilus</i>	Yellowlip emperor		
<i>Lutjanus bohar</i>	Red snapper (Twinspot snapper)	mū	RF, P
<i>Lutjanus fulvus</i>	Blacktail snapper	tamala, tāiva	CB, P
<i>Lutjanus gibbus</i>	Humpback snapper	mala'ī	CB, P



Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Lutjanus kasmira</i>	Bluestripe snapper	savane	CB, P
<i>Lutjanus monostigmus</i>	Onespot snapper (Bluelined snapper)	tāiva, feloitega	CB
<i>Macolor niger</i>			Reef front
<i>Macolor</i> spp.	Black or Midnight snapper	matala'oa	
<i>Malacanthus latovittatus</i>	Blue blanquillo		
<i>Melichthys niger</i>	Black triggerfish	sumu-uli	
<i>Melichthys vidua</i>	Pinktail triggerfish	sumu-apa'apasina, Sumu-si'umumu	CB, P
<i>Monotaxis grandoculis</i>	Bigeye emperor (Humpnose bigeye bream)	mū-matavaivai	CB, LF, P
<i>Mulloidichthys flavolineatus</i>	Yellowstripe goatfish		P
<i>Mulloidichthys vanicolensis</i>	Yellowfin goatfish	i'asina, vete, afulu, afolu	CB, P
<i>Myripristis berndti</i>	Big-scale soldierfish		CB
<i>Myripristis kuntee</i>	Epaulet soldierfish		
<i>Myripristis vittata</i>	Whitetip soldierfish		Reef front
<i>Naso brevirostris</i>	Spotted unicornfish	ume-ulutao	
<i>Naso hexacanthus</i>	Sleek unicornfish		Reef front
<i>Naso lituratus</i>	Orangespine unicornfish	ili'ilia (sm) umelei (large)	CB, LF
<i>Naso tuberosus</i>	Humpnose unicornfish		
<i>Naso unicornis</i>	Bluespine unicornfish	ume-isu	P
<i>Naso tonganus</i>	Bulbnose unicornfish		
<i>Naso vlamingii</i>	Bignose unicornfish	ume-masimasi	CB, LF, P
<i>Nemateleotris magnifica</i>	Fire goby		
<i>Neocirrhites armatus</i>	Flame hawkfish		Reef front
<i>Neomyxus leuciscus</i>	Sharpnose mullet		
<i>Neoniphon opercularis</i>	Blackfin squirrelfish		
<i>Novaculichthys taeniourus</i>	Rockmover wrasse	sugale-la'o (juv), sugale-tāili (adult),	RF
<i>Ostorhincus apogonides</i>		sugale-gasufi	
<i>Ostorhincus leslie</i>	New cardinalfish species		
<i>Ostracion meleagris</i>			RF, P
<i>Oxycheilinus digrammus</i>	Cheeklined wrasse	lalafi-gutu'umi	
<i>Oxycheilinus unifasciatus</i>	Ringtail wrasse	lalafi	
<i>Paracirrhites arcatus</i>	Arceye hawkfish	lausiva	RF
<i>Paracirrhites forsteri</i>	Freckled hawkfish	lausiva	
<i>Paracirrhites hemistictus</i>	Halfspotted hawkfish		
<i>Parapercis cephalopunctata</i>			RF
<i>Parapercis clathrata</i>	Latticed sandperch	ta'oto	
<i>Parapercis millepunctata</i>	Black dotted sand perch		
<i>Parupeneus barberinus</i>	Dash-dot goatfish	tusia	RF, LF
<i>Parupeneus bifasciatus</i>	Doublebar goatfish	matūlau-moana	RF
<i>Parupeneus chryserydros</i>			RF, LF, P

Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Parupeneus cyclostomus</i>	Goldsaddle goatfish	moana	
<i>Parupeneus insularis</i>	Twosaddle goatfish		
<i>Parupeneus multifasciatus</i>	Manybar goatfish		
<i>Parupeneus pleurostigma</i>	Sidespot goatfish	matūlau-ilamutu	RF, LF
<i>Parupeneus trifasciatus</i>			RF, LF, P
<i>Pempheris oualensis</i>	Copper sweeper		
<i>Plagiotremus tapeinosoma</i>	Piano fangblenny	mano'o-to'ito'i	CB
<i>Plectroglyphidodon dickii</i>	Dick's damselfish	tu'u'u-i'usina	P
<i>Plectroglyphidodon johnstonianus</i>	Johnston damselfish	tu'u'u-I'uuli	
<i>Plectroglyphidodon lacrymatus</i>	Jewel damselfish	tu'u'u-lau, i'usamasama	
<i>Plectroglyphidodon phoenixensis</i>	Phoenix devil		
<i>Pomacentrus brachialis</i>	Charcoal damselfish	tu'u'u-faga	
<i>Pomacentrus coelestis</i>	Neon damselfish	tu'u'u-segasega	
<i>Pomacentrus vaiuli</i>	Princess damselfish	tu'u'u-vaiuli	CB, RF, P
<i>Pomocanthus imperator</i>	Emperor angelfish		
<i>Pristiapogon exostigma</i>	Narrowstripe cardinalfish		
<i>Pristiapogon fraenatus</i>	Spurcheek cardinalfish		
<i>Pristiapogon kallopterus</i>	Iridescent cardinalfish		
<i>Pseudanthias pascalus</i>	Purple queen		
<i>Pseudobalistes flavimarginatus</i>	Yellowmargin triggerfish	sumu-laulau (<20cm) Umu (>20cm)	RF, LF, P
<i>Pseudochelinus evanidus</i>	Disappearing wrasse (Striated wrasse)		RF, LF
<i>Pseudochelinus hexataenia</i>	Sixstripe wrasse	sugale-manifi	CB, LF, P
<i>Pseudochelinus octotaenia</i>	Eightstripe wrasse	sugale-manifi	
<i>Pseudochelinus tetrataenia</i>	Fourstripe wrasse		
<i>Pseudodax moluccanus</i>	Chiseltooth wrasse		
<i>Ptereleotris evides</i>	Twotone dartfish (Blackfin dartfish)	ma'ulu	RF, LF, P
<i>Ptereleotris microlepis</i>	Pearly dartfish		
<i>Ptereleotris zebra</i>	Zebra dartfish		
<i>Pterocaesio kohleri</i>			P
<i>Pterocaesio tile</i>	Bluestreak fusilier		P
<i>Pterois antennata</i>	Antenna turkeyfish (Spotfin lionfish)		
<i>Pterois volitans</i>	Turkeyfish		
<i>Pygoplites diacanthus</i>	Regal angelfish	tu'u'u-moana	CB, P
<i>Remora remora</i>	Remora		
<i>Rhinecanthus aculeatus</i>	Picasso triggerfish (Lagoon triggerfish)	sumu-uo'uo	RF, LF
<i>Rhinecanthus rectangulus</i>	Wedgetail triggerfish	sumu-aloalo	
<i>Sargocentron microstoma</i>	Smallmouth squirrelfish	malau-tianiu	

Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Sargocentron spiniferum</i>	Sabre squirrelfish	tāmalau (<30cm), mu-malau (>30cm), malau-toa	
<i>Sargocentron tiere</i>	Tahitian squirrelfish		
<i>Saurida gracilis</i>	Slender lizardfish		P
<i>Scarus altipinnis</i>			
<i>Scarus atropectoralis</i> ( <i>S. caudofasicatus</i> )	Filament-fin parrotfish		CB, P
<i>Scarus festivus</i>	Festive parrotfish		
<i>Scarus forsteni</i>	Bluepatch parrotfish (Rainbow parrotfish)		
<i>Scarus frenatus</i>	Bridled parrotfish	laea-mea (IP), laea-si'umoano (TP)	
<i>Scarus ghobban</i>			RF
<i>Scarus gibbus</i>			RF
<i>Scarus globiceps</i>	Violet-lined parrotfish (Roundhead parrotfish)		
<i>Scarus oviceps</i>	Dark capped parrotfish		
<i>Scarus psittacus</i>	Palenose parrotfish	fuga-matapua'a (juv), fugausi-matapua'a (IP), laea-matapua'a (TP)	
<i>Scarus rubroviolaceus</i>	Redlip parrotfish	laea-mea (IP), laea-mala (TP)	
<i>Scarus schlegeli</i>	Yellowbar parrotfish	fuga-matapua'a (IP), laea-tusi (TP)	RF, LF, P
<i>Scarus sordidus</i>			CB RF LF P
<i>Scarus tricolor</i>			Reef front
<i>Scarus xanthopleura</i>	Red parrotfish		
<i>Scomberoides lysan</i>	Doublespotted queenfish		
<i>Sphyaena helleri</i>	Heller's barracuda		
<i>Sphyaena barracuda</i>	Barracuda	sapatū	
<i>Sphyaena</i> sp.			Reef front
<i>Sphyaena qenie</i>	Blackfin barracuda		
<i>Spratelloides</i> sp.			RF
<i>Stegastes albifasciatus</i>	Whitebar gregory	tu'u'u-pa, ulavapua	
<i>Stegastes nigricans</i>	Dusky gregory	tu'u'u-moi	
<i>Stethojulis bandanensis</i>	Redshoulder wrasse	lape-a'au	
<i>Sufflamen bursa</i>	Scythe triggerfish (Lei triggerfish)	sumu-pa'epa'e	LF
<i>Sufflamen chrysopterus</i>	Flagtail triggerfish	sumu-gasemoana	LF
<i>Synodus variegatus</i>	Reef lizardfish	ta'oto	
<i>Taeniura meyeni</i>			
<i>Thalassoma amblycephalum</i>	Bluehead wrasse (Two-tone wrasse)	sugale-aloama	CB
<i>Thalassoma hardwicke</i>	Sixbar wrasse	sugale-a'au, lape-ele'ele	CB, P
<i>Thalassoma lutescens</i>	Sunset wrasse	sugale-samasama	LF, P

Scientific Name*	Common Names	Samoan Names	Wass Habitats**
<i>Thalassoma nigrofasciatum</i>	Blackbar wrasse		
<i>Thalassoma purpurum</i>	Surge wrasse	uloulo-gatal (IP), patagaloa (TP)	RF
<i>Thalassoma quinquevittatum</i>	Fivestripe wrasse (Redribbon wrasse)	lape-moana	CB, RF, P
<i>Thalassoma trilobatum</i>	Christmas wrasse		
<i>Trachinotus bailloni</i>	Small-spotted dart (Small-spotted pompano)		
<i>Trimma</i> sp.	Goby		
<i>Valenciennea strigata</i>	Bluestreak goby	mano'o-sina	RF, LF
<i>Zanclus cornutus</i>	Moorish idol	pe'ape'a, laulaufau	CB, LF, P
<i>Zebrasoma rostratum</i>			Reef front
<i>Zebrasoma scopas</i>	Brush-tail tang	pitopito, pe'ape'a	CB, LF
<i>Zebrasoma veliferum</i>	Pacific sailfin tang	iliū	CB, P

\* Bolded font = fish species IUCN listed.

\*\* Wass (1981) habitats: CB = coral blocks; RF = rubble flats; LF = lagoon floor; P = pinnacle.

**Table A-3. Flora List for Rose Atoll**

Species	Common Name	Samoan Name	Invasive
<b>Terrestrial:</b>			
<i>Auricularia polytricha</i>	Wood fungus		
<i>Nephrolepis hirsutula</i>	Scaly sword-fern		
<i>Barringtonia asiatica</i>	Fish-poison tree	Futu	
<i>Boerhavia repens</i>	Boerhavia, Alena	Ufi'atuli	
<i>Calophyllum inophyllum</i>	Alexandrian laurel	Fetau	
<i>Cenchrus echinatus</i>	Southern sandbur		Invasive
<i>Chloris barbata</i>	Swollen fingergrass		Invasive
<i>Cocos nucifera</i>	Coconut palm	Niu	Invasive
<i>Cordia subcordata</i>	Cordia, Kou	Taukanave	
<i>Gossypium hirsutum</i>	Polynesian cotton	Vavae	
<i>Hibiscus tiliaceus</i>	Beach hibiscus	Fau	
<i>Ipomoea macrantha</i>	Morning glory		
<i>Ipomoea pes-caprae</i>	Beach morning glory	Fue moa	
<i>Pisonia grandis</i>	Pisonia	Pu'a vai	
<i>Portulaca</i> sp.	Purslane	Tamole	
<i>Suriana maritima</i>	Bay-cedar		
<i>Terminalia</i> sp.		Talie	
<i>Tournefortia argentea</i>	Tree heliotrope	Tausuni	
<b>Marine:*</b>			
<i>Bryopsis pennata</i>			
<i>Halimeda taenicola</i>			
<i>Halimeda fragilis</i>			
<i>Halimeda micronesica</i>			
<i>Halimeda minima</i>			
<i>Halimeda opuntia</i>			
<i>Ostreobium queketti</i>			

Species	Common Name	Samoan Name	Invasive
<i>Valonia fastigiata</i>			
<i>Microdictyon setchellianum</i>			
<i>Dictyosphaeria versluisii</i>			
<i>Caulerpa cupressoides</i> (West)			
<i>Caulerpa cupressoides</i> var. <i>lycopodium</i>			
<i>Lobophora variegata</i>			
<i>Galaxaura filamentosa</i>			
<i>Porolithon onkodes</i> , <i>P. craspedium</i> , <i>P. gardineri</i>	Crustose coralline algae		
<i>Jania</i> spp.	Coralline red algae		
<i>Peyssonnelia</i>			
Turf algae			
<i>Lyngbya</i> , <i>Oscillatoria</i> , <i>Symploca</i> , <i>Calothrix</i> spp.	Cyanobacteria		Can become invasive

\*For the marine flora, the list is preliminary.

Source: USFWS, CRED surveys (Brainard et al. 2008, Vroom, pers. comm. 2012, Burgett 2003).

**Table A-4. Bird List for the Refuge**

Species	Common Name	Samoan Name
<i>Fregata ariel</i>	Lesser frigatebird	Atafa
<i>Fregata minor</i>	Great frigatebird	Atafa
<i>Puffinus pacificus</i>	Wedge-tailed shearwater	Ta'i'o
<i>Phaethon rubricauda</i>	Red-tailed tropicbird	Tava'e'ula
<i>Phaethon lepturus</i>	White-tailed tropicbird	Tava'e
<i>Sula sula</i>	Red-footed booby	Fua'o
<i>Sula leucogaster</i>	Brown booby	Fua'o
<i>Sula dactylatra</i>	Masked booby	Fua'o
<i>Egretta sacra</i>	Pacific reef heron	Matu'u
<i>Pluvialis fulva</i>	Pacific golden plover	Tuli
<i>Arenaria interpres</i>	Ruddy turnstone	Tuli'alomalala
<i>Numenius phaeopus</i>	Whimbrel	Tuli
<i>Numenius tahitiensis</i>	Bristle-thighed curlew	Tuli'olovalu
<i>Calidris alba</i>	Sanderling	Tuli
<i>Tringa incana</i>	Wandering tattler	Tuli
<i>Sterna sumatrana</i>	Black-naped tern	Gogosina
<i>Onychoprion lunatus</i>	Gray-backed tern	Gogosina
<i>Onychoprion fuscatus</i>	Sooty tern	Gogosina, Gogo uli
<i>Procelsterna cerulea</i>	Blue noddy	Laia
<i>Anous minutus</i>	Black noddy	Gogo uli
<i>Anous stolidus</i>	Brown noddy	Gogo
<i>Gygis alba</i>	White tern	Manusina
<i>Eudynamis taitensis</i>	Long-tailed cuckoo	Aleva

**Table A-5. Reptile List for the Refuge**

Species*	Common Name*	Samoan Name	ESA Status
<i>Chelonia mydas</i>	Green turtle	I'a sa	Threatened
<i>Eretmochelys imbricata</i>	Hawksbill turtle		Endangered
<i>Gehyra oceanica</i>	Oceanic gecko		
<i>Lepidodactylus lugubris</i>	Mourning gecko		

**Table A-6. Selected Invertebrates Known to Occur at Rose Atoll**

Species	Common Name	Samoan Name	Introduced
<i>Tridacna maxima</i>	Giant clam	Faisua	
<i>Heterocentrotus, Diadema, Echinometra, Echinothrix, and Echinostrephus spp.</i>	Sea urchins	Tuitui	
<i>Ocypoda spp.</i>	Ghost crabs		
<i>Coenobita perlatus</i> and <i>Coenobita brevipanus</i>	Land hermit crabs		
<i>Birgus latro</i>	Coconut crab		
<i>Pulvinaria urbicola</i>	Scale insect	Urbicola soft scale	Introduced and invasive
<i>Pheidole megacephala</i>	Big-headed ant		Introduced and Invasive
<i>Tetramorium bicarinatum</i>	Guinea ant, Tramp ant		Introduced and Invasive