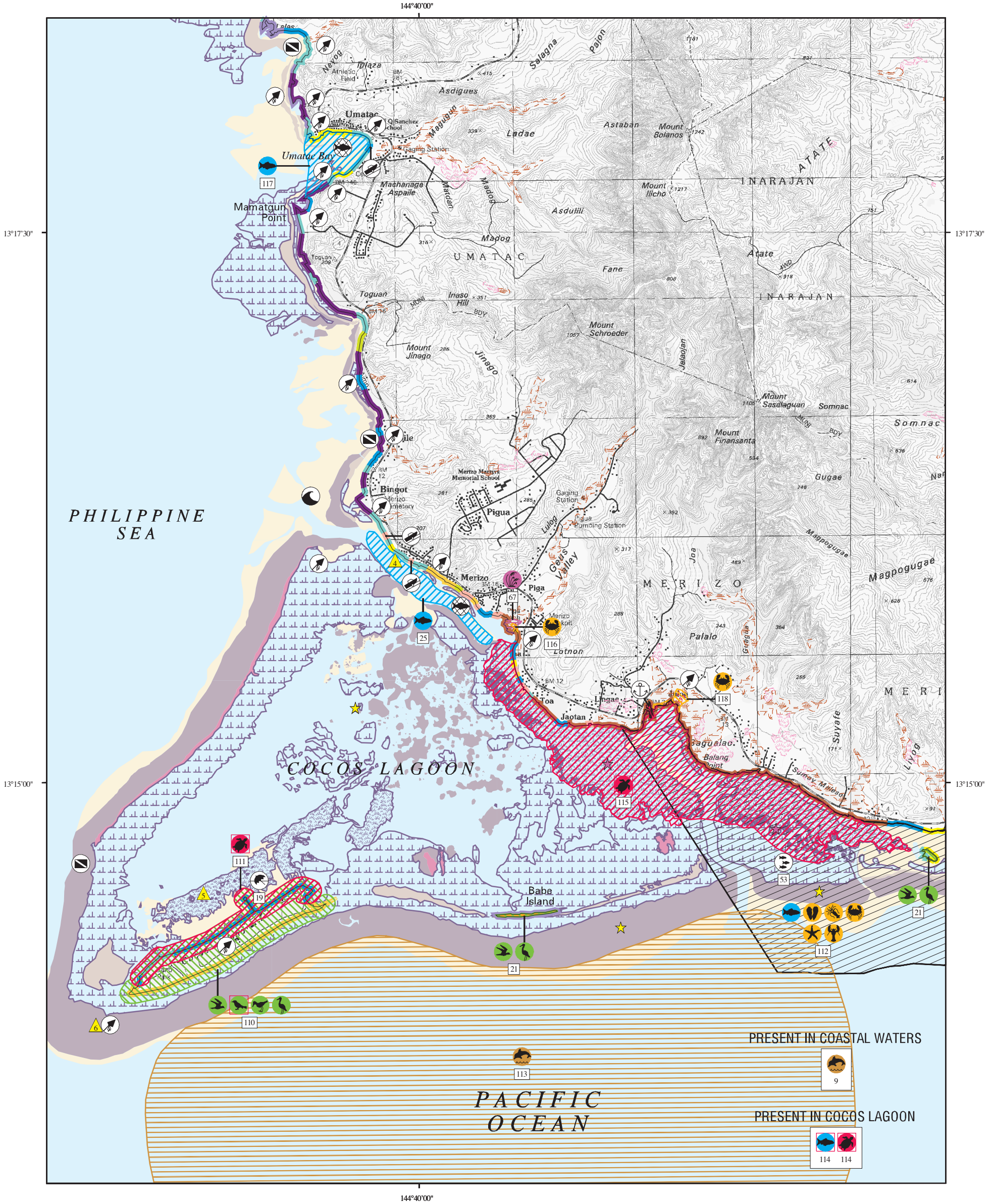


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

	1A EXPOSED ROCKY SHORES
	1B EXPOSED, SOLID, MAN-MADE STRUCTURES
	2A EXPOSED WAVE-CUT PLATFORMS
	3A FINE-TO MEDIUM-GRAINED SAND BEACHES
	5 MIXED SAND AND GRAVEL BEACHES
	6A GRAVEL BEACHES
	6B RIPRAP
	8A SHELTERED ROCKY SHORES
	8B SHELTERED, SOLID MAN-MADE STRUCTURES
	8C SHELTERED RIPRAP
	9B VEGETATED LOW BANKS
	10A SALT- AND BRACKISH-WATER MARSHES
	10B FRESHWATER MARSHES
	10C SWAMP
	10D SCRUB-SHRUB WETLANDS
	10D MANGROVES

1 0.5 0 1 KILOMETER

1 0.5 0 1 MILE

SCALE 1:32000

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National Ocean Service
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Guam and the Northern Mariana Islands: ESIMAP 3

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
21	Black noddy		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Brown noddy		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Pacific reef-heron		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Terns		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Yellow bittern		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
110	Black noddy		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Brown noddy		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Micronesia starling	C	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pacific reef-heron		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Shorebirds		X	X	X	X		X	X	X	X	X	X	X	-	-	-
	White tern		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
25	Bigeye scad	HIGH						X	X	X	X	X	X	X	-	-	-	-	JUN-DEC
112	Barracudas		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Damselfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Emperors		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Goatfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Groupers		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Jacks		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Mackerels		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Mojarras		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Mullet		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Needlefishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Parrotfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Porcupinefishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Rabbitfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Requiem sharks		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Rudderfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sharks		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Snappers		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Squirrelfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Surgeonfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Triggerfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Wrasses		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
114	Napolean wrasse	C	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
117	Bigeye scad	HIGH						X	X	X	X	X	X	X	-	-	-	-	JUN-DEC

HABITAT:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
67	Nipa palm		X	X	X	X	X	X	X	X	X	X	X	X

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
112	Giant clams		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Octopus		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sea cucumbers		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Spiny lobsters		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Swimming crabs		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
116	Mangrove crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
118	Mangrove crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
9	Spinner dolphin	80	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
113	Spotted dolphin	60	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
111	Green sea turtle	E T					X	X	X	X					APR-JUL	-	-	APR-JUL	APR-JUL
114	Green sea turtle	E T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Hawksbill sea turtle	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
115	Green sea turtle	E T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC

HUMAN USE RESOURCES:

BEACH:

HUN#	Name	Contact	Phone
19	COCOS ISLAND TERRITORIAL PARK		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
53	ACHANG REEF FLAT MARINE PROTECTED AREA	GUAM DAWR	671/735-3955