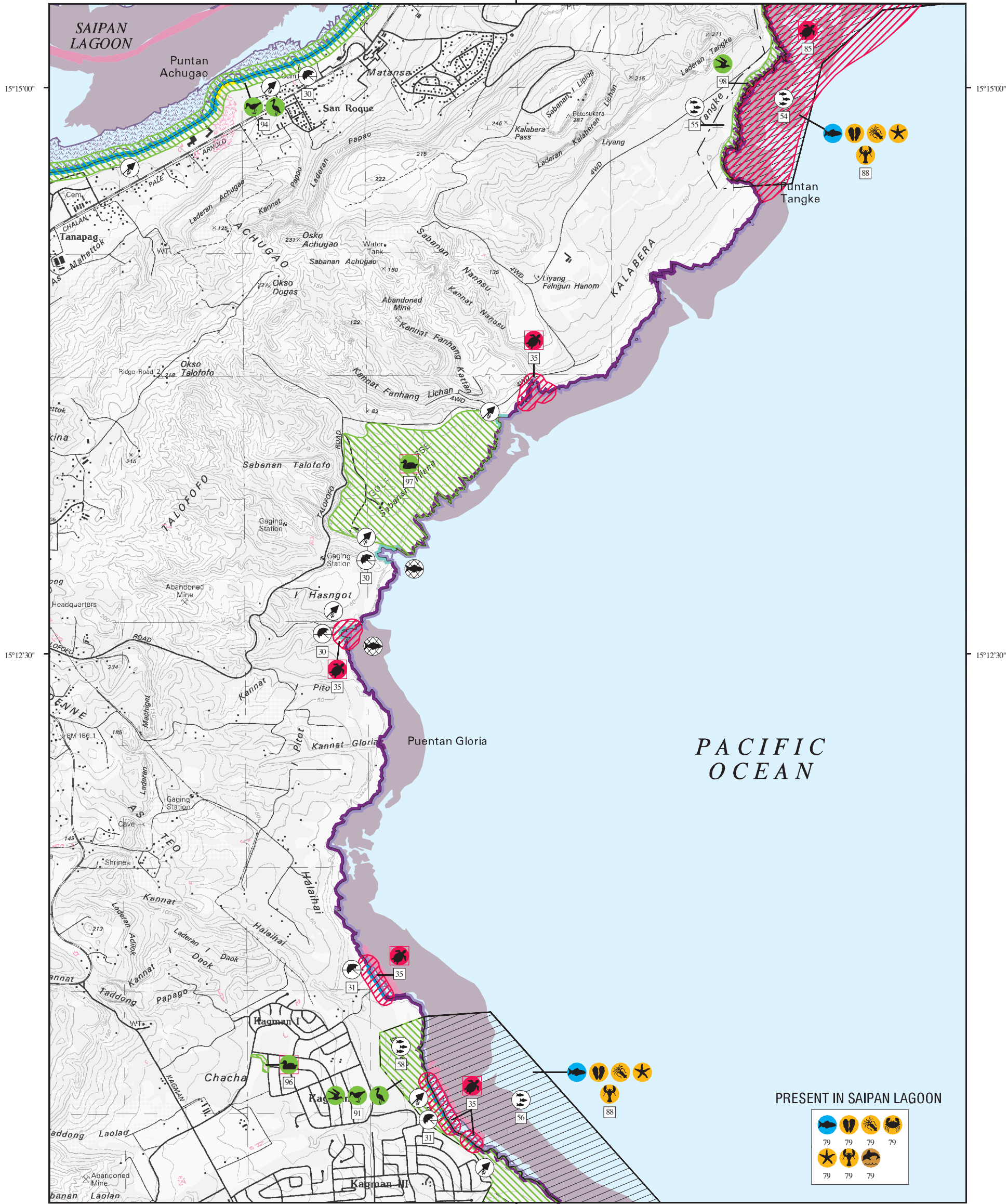


ENVIRONMENTAL SENSITIVITY INDEX MAP



**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

Not For Navigation

August 2005

Published at Seattle, Washington

National Oceanic and Atmospheric Administration

National Ocean Service

Office of Response and Restoration

Hazardous Materials Response Division

Saipan 27

28 26

Tinian 23 24 25

19 20

18 Aguijan

Rota 17 16

14 15

Guam 10 9

13 12 11 8

7 6 5 4

3 2 1

SAIPAN ESI-26

Guam and the Northern Mariana Islands: ESIMAP 26

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
91	Black-bellied plover		X	X	X							X	X	X	-	-	-
	Common sandpiper		X	X	X							X	X	X	-	-	-
	Gray-tailed tattler		X	X	X							X	X	X	-	-	-
	Mongolian plover		X	X	X							X	X	X	-	-	-
	Pacific golden-plover		X	X	X							X	X	X	-	-	-
	Pacific reef-heron		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Wandering tattler		X	X	X							X	X	X	-	-	-
	White tern		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
94	Black-bellied plover		X	X	X							X	X	X	-	-	-
	Common sandpiper		X	X	X							X	X	X	-	-	-
	Curlews		X	X	X							X	X	X	-	-	-
	Gray-tailed tattler		X	X	X							X	X	X	-	-	-
	Greater yellowlegs		X	X	X							X	X	X	-	-	-
	Lesser yellowlegs		X	X	X							X	X	X	-	-	-
	Mongolian plover		X	X	X							X	X	X	-	-	-
	Pacific golden-plover		X	X	X							X	X	X	-	-	-
	Pacific reef-heron		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Ruddy turnstone		X	X	X							X	X	X	-	-	-
	Shorebirds	40	X	X	X	X					X	X	X	X	-	-	-
	Stints		X	X	X							X	X	X	-	-	-
	Wandering tattler		X	X	X							X	X	X	-	-	-
	Whimbrel		X	X	X							X	X	X	-	-	-
96	Mariana common moorhen	E E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
97	Greater scaup		X	X	X							X	X	X	-	-	-
	Mariana common moorhen	E E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Northern pintail		X	X	X							X	X	X	-	-	-
	Tufted duck		X	X	X							X	X	X	-	-	-
98	White tern	HIGH	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
79	Bigeyes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Butterflyfishes		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
	Fusiliers		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
	Milkfish		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
	Parrotfishes		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
	Rudderfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Skipjack tuna	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Snappers		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Soldierfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	APR-FEB
	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
	Sweetlips		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
	Unicornfishes		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
88	Bigeyes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Butterflyfishes		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
	Fusiliers		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
	Grunts		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
	Milkfish		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
	Parrotfishes		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
	Rudderfishes		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
	Soldierfishes		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	APR-FEB
	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
	Unicornfishes		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

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
79	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
	Reef invertebrates	HIGH	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
	Slipper lobsters		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
88	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
	Slipper lobsters		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

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
79	Spinner dolphin		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
35	Green sea turtle	E T				X	X	X	X						APR-JUL	-	-	APR-JUL	APR-JUL
85	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
30	RECREATIONAL BEACH		
31	RECREATIONAL BEACH		

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

Guam and the Northern Mariana Islands: ESIMAP 26 (cont.)

HUMAN USE RESOURCES: (cont.)

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
54	BIRD ISLAND MARINE SANCTUARY	CNMI DFW	670/664-6000
55	BIRD ISLAND WILDLIFE CONSERVATION AREA	CNMI DFW	670/664-6000
56	FORBIDDEN ISLAND MARINE SANCTUARY	CNMI DFW	670/664-6000
58	KAGMAN WILDLIFE CONSERVATION AREA	CNMI DFW	670/664-6000

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.