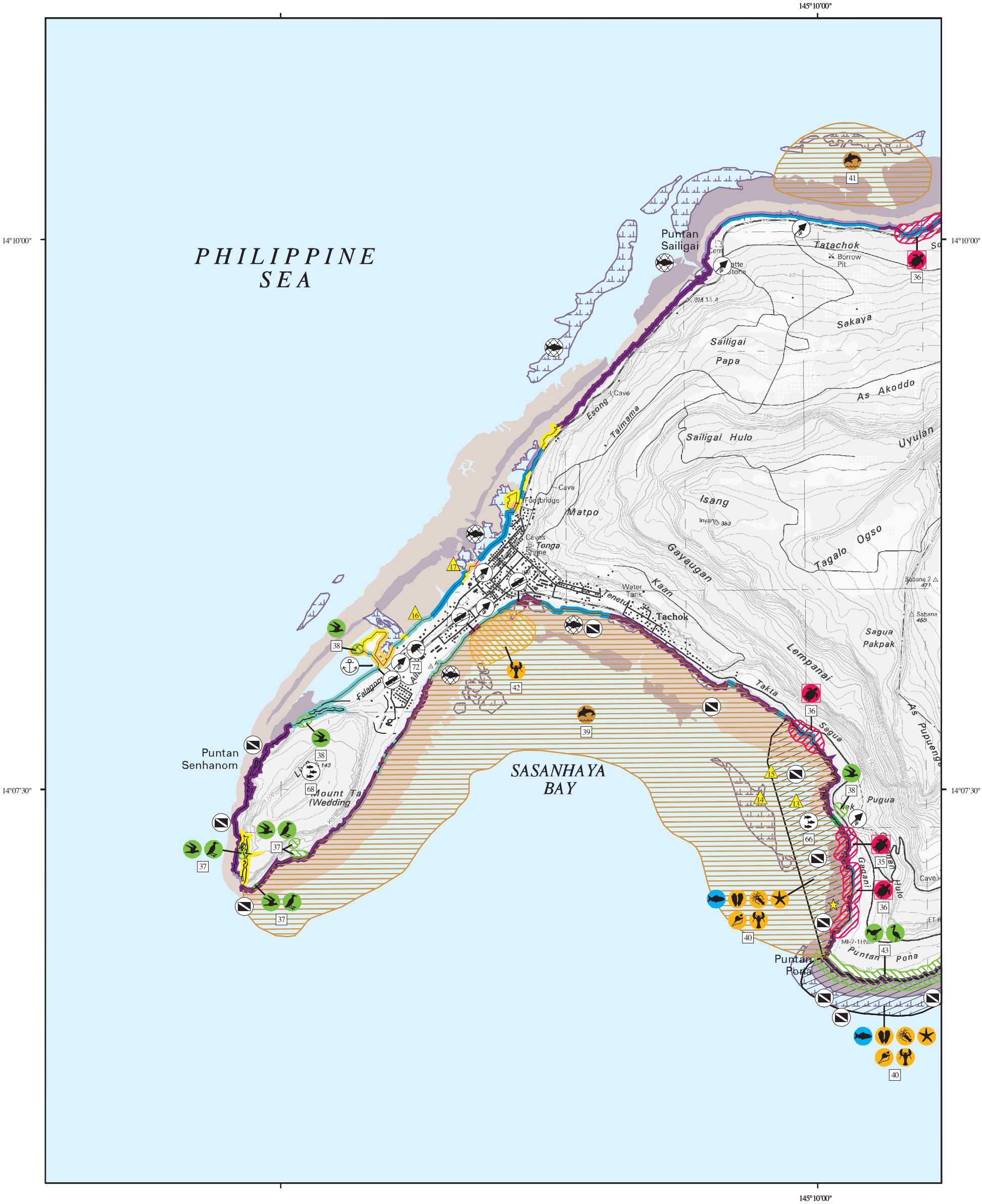
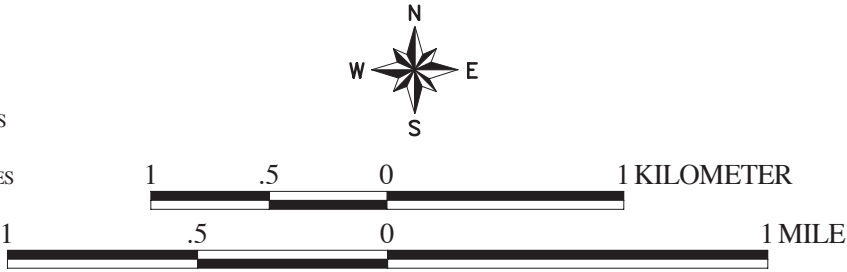


ENVIRONMENTAL SENSITIVITY INDEX MAP



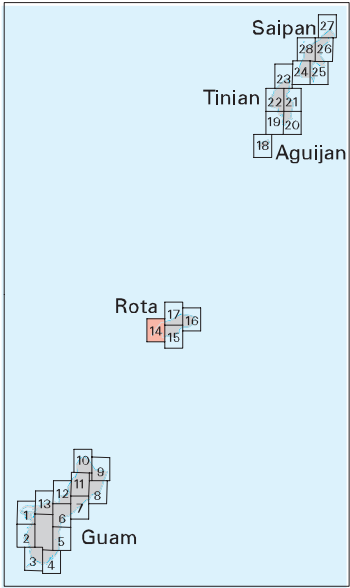
- SHORELINE HABITATS (ESI)
- 1A EXPOSED ROCKY SHORES
 - 1B EXPOSED, SOLID, MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS
 - 3A FINE-TO MEDIUM-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 6B RIPRAP
 - 8A SHELTERED ROCKY SHORES
 - 8B SHELTERED, SOLID MAN-MADE STRUCTURES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



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



ROTA ESI-14

Guam and the Northern Mariana Islands: ESIMAP 14

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
37	Black noddy		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Brown booby		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	-	-
38	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	-	-
43	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	-	-
	Ruddy turnstone		X	X	X								X	X	X	-	-
	Wandering tattler		X	X	X								X	X	X	-	-
	Whimbrel		X	X	X								X	X	X	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
40	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
	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

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
40	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
	Topshell		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Turbo shell		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
42	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
39	Bottlenose dolphin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Spinner dolphin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
41	Bottlenose dolphin		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	Interne	Juveniles	Adults
35	Green sea turtle	E T					X	X	X	X					APR-JUL	-	-	APR-JUL	APR-JUL
36	Green sea turtle	E T					X	X	X	X					APR-JUL	-	-	APR-JUL	APR-JUL

HUMAN USE RESOURCES:

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
66	SASANHAYA FISH RESERVE	CNMI DFW	670/644-6000
68	WEDDING CAKE	CNMI DFW	670/644-6000

MARINA:

HUN#	Name	Contact	Phone
72	MARINA		