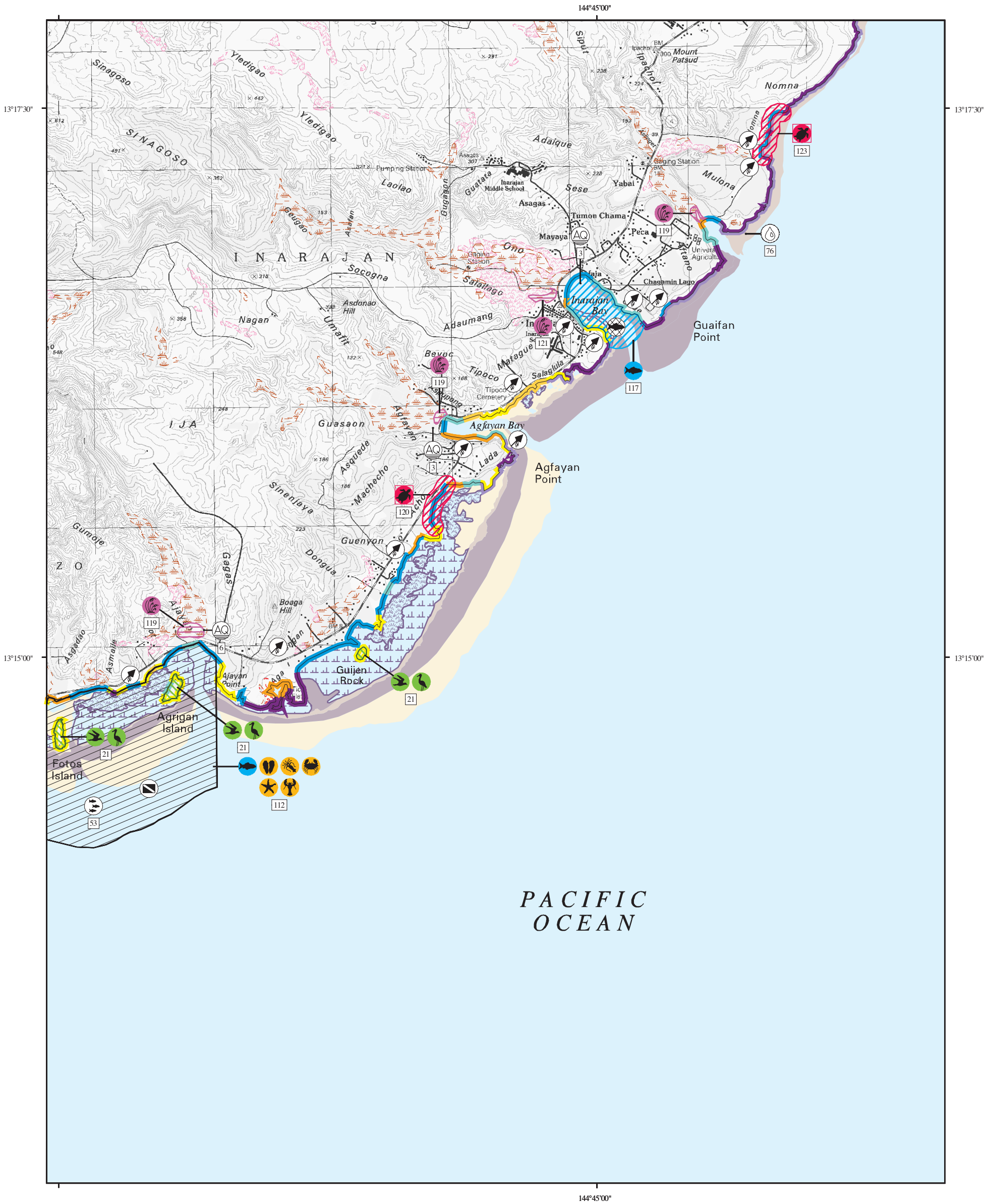
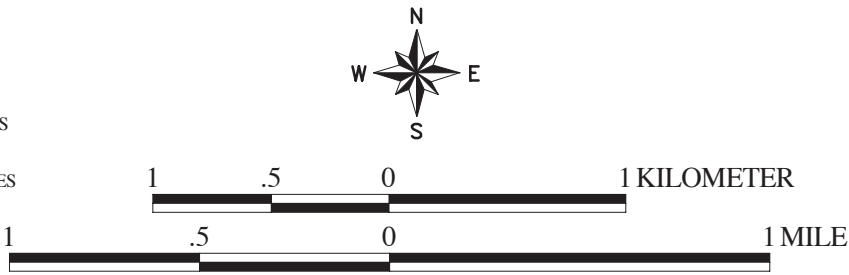


ENVIRONMENTAL SENSITIVITY INDEX MAP



- 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

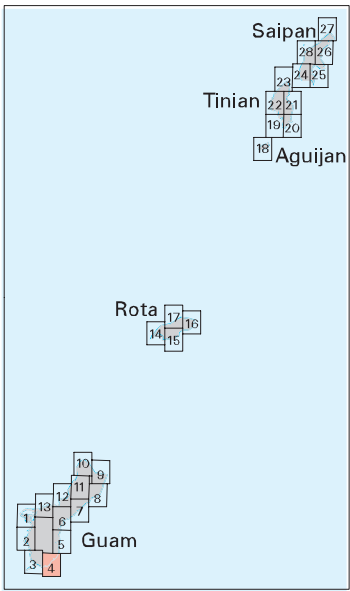


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Guam and the Northern Mariana Islands: ESIMAP 4

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	-	-

FISH:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
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
	Mulletts		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
117	Bigeye scad	HIGH	X 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
119	Nipa palm		X X X X X X X X X X X X
121	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

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interesting	Juveniles	Adults
120	Green sea turtle	E T	X X X X	APR-JUL	-	-	APR-JUL	APR-JUL
123	Green sea turtle	E T	X X X X	APR-JUL	-	-	APR-JUL	APR-JUL

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone
3	AQUACULTURE SITE		
6	SHRIMP & TILAPIA AQUACULTURE SITE		

MANAGEMENT AREA:

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

SEWAGE OUTFALL:

HUN#	Name	Contact	Phone
76	OUTFALL		