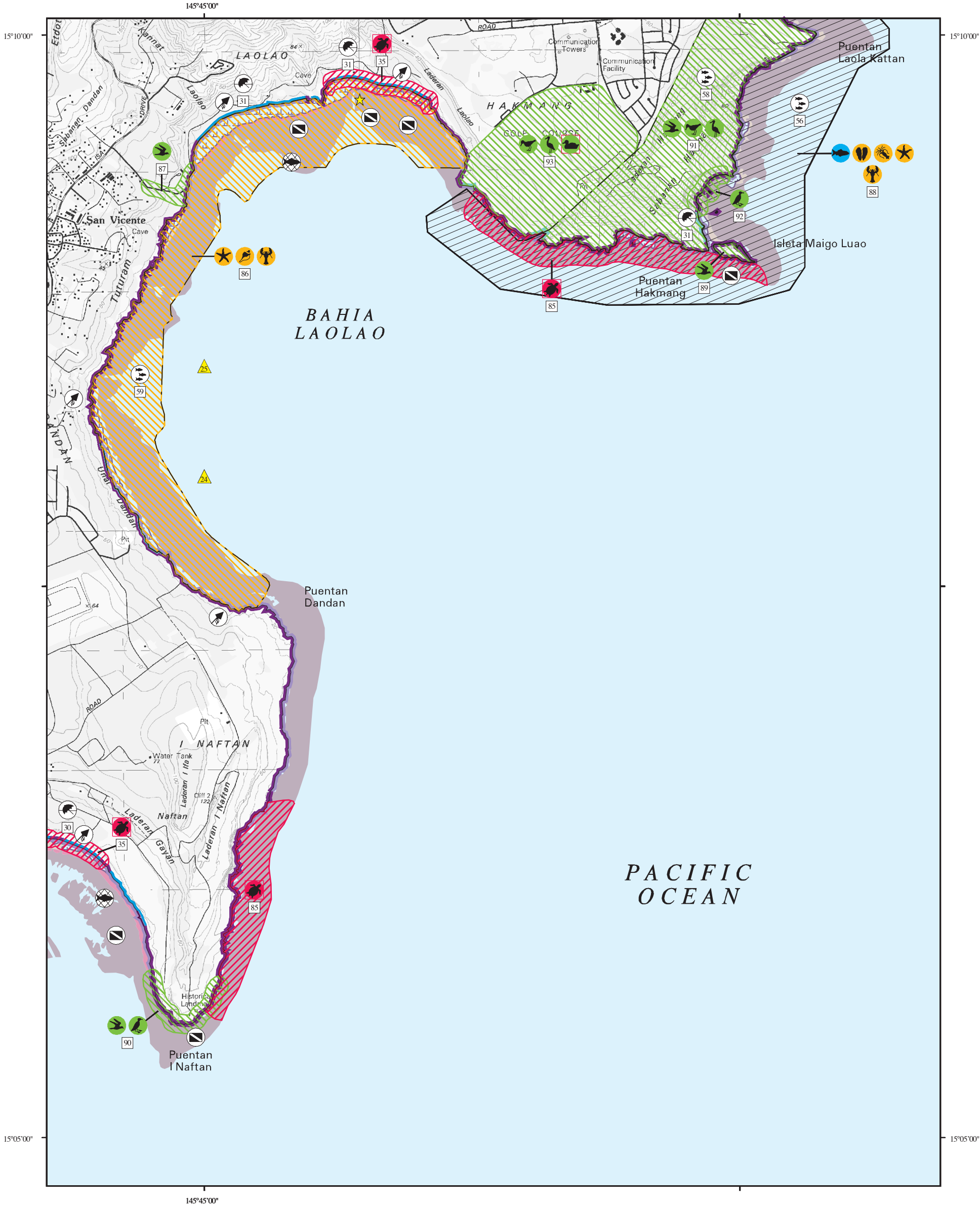
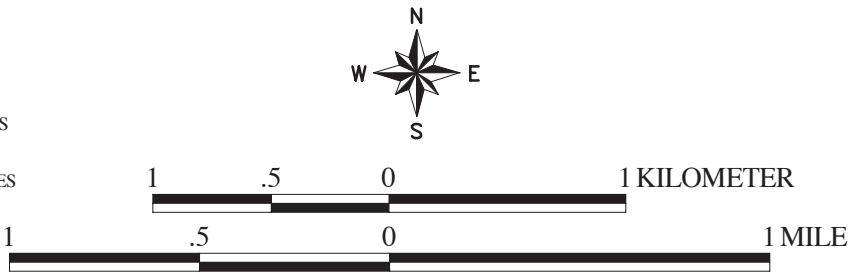


ENVIRONMENTAL SENSITIVITY INDEX MAP



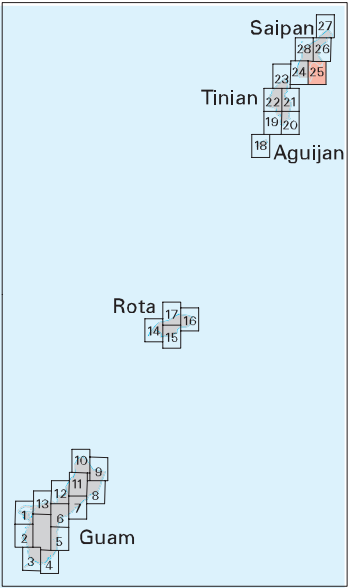
- SHORELINE HABITATS (ESI)
- 1A EXPOSED ROCKY SHORES
 - 1B EXPOSED, SOLID, MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS
 - 3A FINE-TO MEDIUM-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 6B RIPRAP
 - 8A SHELTERED ROCKY SHORES
 - 8B SHELTERED, SOLID MAN-MADE STRUCTURES
 - 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
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National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division



Guam and the Northern Mariana Islands: ESIMAP 25

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S F Conc. | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Migrating | Molting |
|------|-------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|-----------|---------|
| 87 | Brown noddy | 300-400 | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | - | - |
| | White tern | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | - | - |
| 89 | 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 | APR-AUG | - | - |
| 90 | 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 | - | - |
| | Red-tailed tropicbird | | X | 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 | - | - |
| | White-tailed tropicbird | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| 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 | - | - |
| 92 | Red-tailed tropicbird | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | White-tailed tropicbird | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| 93 | Mariana common moorhen | E E | X | X | X | X | X | X | X | X | X | X | X | X | JAN-DEC | - | - |
| | 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 | - | - |

FISH:

| RAR# | Species | S F Conc. | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|-----------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|----------|------|--------|-----------|---------|
| 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 |
|------|------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|----------|------|--------|-----------|---------|
| 86 | Gastropods | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Sea cucumbers | HIGH | 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 |

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 | | |

MANAGEMENT AREA:

| HUN# | Name | Contact | Phone |
|------|-----------------------------------|----------|--------------|
| 56 | FORBIDDEN ISLAND MARINE SANCTUARY | CNMI DFW | 670/664-6000 |
| 58 | KAGMAN WILDLIFE CONSERVATION AREA | CNMI DFW | 670/664-6000 |
| 59 | LAU LAU BAY SEA CUCUMBER RESERVE | CNMI DFW | 670/664-6000 |