
Las aves de Xcalak



100 ESPECIES DE AVES
100 BIRD SPECIES

S Estacionalidad

| | |
|----|---|
| * | Se reproduce |
| W | Visitante invernal |
| *W | Una pequeña población se reproduce, principalmente visitante invernal |
| *S | Residente sólo en verano |
| T | Migratoria en tránsito durante primavera y/u otoño |
| Tw | Principalmente migratoria en tránsito |
| V | Especie fuera de su distribución normal |

C Categoría

| | |
|----|---|
| A | Amenazada |
| A* | Amenazada endémica |
| P | En peligro de extinción |
| R | Rara |
| PR | Protección especial |
| E | Endémica de la Península de Yucatán (Howell S.N. & Webb S., 1995) |

O Sitios de Observación

| | |
|----|--|
| 1 | Pueblo de Xcalak |
| 2 | Canal de Bacalar Chico |
| 3 | Punta Chelem |
| 4 | Punta Aguada |
| 5 | Isla de los Pájaros |
| 6 | Mogote de la kuka |
| 7 | Uno de los siete mogotes |
| 8 | Bordes del camino al aeropuerto |
| 9 | Bordes del camino al muelle del ferry |
| 10 | Camino costero al sur del pueblo |
| 11 | Alrededor de la aeropista, incluyendo la selva al sur del pozo de agua potable |
| 12 | Sur de la sascabera y norte de la aeropista |
| 13 | Camino atrás de la sascabera |
| 14 | Costa desde Majahual a Xcalak |

S Status

| | |
|----|--|
| * | Breeds |
| W | Winter visitor |
| *W | A small population breeds, mainly winter visitor |
| *S | Summer resident |
| T | Migratoria en tránsito durante primavera y/u otoño |
| Tw | Principalmente migratoria en tránsito |
| V | Especie fuera de su distribución normal |

C Category

| | |
|----|--|
| A | Threatened |
| A* | Threatened endemic |
| P | In danger of extinction |
| R | Rare |
| PR | Special protection |
| E | Endemic to the Yucatán Peninsula (Howell S.N. & Webb S., 1995) |

O Observation sites

| | |
|----|---|
| 1 | Xcalak village |
| 2 | Bacalar Chico Canal |
| 3 | Punta Chelem |
| 4 | Punta Aguada |
| 5 | Isla de los Pájaros (Bird Island) |
| 6 | Boat-billed Heron island |
| 7 | One of the "7 mogotes" |
| 8 | Side road to the air strip |
| 9 | Sides of road to the ferry pier |
| 10 | Coastal road south of village |
| 11 | Near airstrip, including forest south of potable water well |
| 12 | South of material bank and north to airstrip |
| 13 | Road behind the material bank |
| 14 | Coastal road from Majahual to Xcalak |

LISTA DE ESPECIES □ SPECIES LIST

| | | | E | C | O |
|-------------------------------|----------------------------------|------------------------------------|----------|----------|--------------|
| TINAMUUES | TINAMOURS | TINAMIDAE | | | |
| Tinamú canelo o perdíz | Thicket Tinamou | <i>Crypturellus cinnamomeus</i> | R | * | 11,13 |
| PELICANOS | PELICANS | PELECANIDAE | | | |
| Pelicano café | Brown Pelican | <i>Pelecanus occidentalis</i> | | * | 1,3,14 |
| CORMORANES | CORMORANTS | PHALACROCORACIDAE | | | |
| Cormorán doble cresta | Double-crested Cormoran | <i>Phalacrocorax auritus</i> | | * | 1,2,4,5,8 |
| Cormorán neotropical | Neotropic Cormorant | <i>Phalacrocorax brasilianus</i> | | * | 5,8 |
| FRAGATAS | FRIGATEBIRDS | FREGATIDAE | | | |
| Fragata magnífica | Magnificent Frigatebird | <i>Fregata magnificens</i> | | * | 1,2,5,8,9,14 |
| PEDRETES Y GARZAS | BITTERNS & HERONS | ARDEIAE | | | |
| Garza tigre | Bare-throated Tiger-Heron | <i>Tigrisoma mexicanum</i> | | * | 2 |
| Garzón cenizo | Great Blue Heron | <i>Ardea herodias</i> | | * | 1,2,5,14 |
| Garzón cenizo fase blanca | Great White Heron | <i>Ardea herodias occidentalis</i> | R | * | 5 |
| Garza blanca | Great Egrett | <i>Casmerodius albus</i> | | * | 1,2,5,8,14 |
| Garcita blanca | Snowy Egrett | <i>Egretta thula</i> | | * | 2,8,14 |
| Garcita azul | Little Blue Heron | <i>Egretta caerulea</i> | | * | 2,5,8,14 |
| Garza flaca | Tricolored Heron | <i>Egretta tricolor</i> | | * | 2,5,8,14 |
| Garza melnuda | Reddish Egrett | <i>Egretta rufescens</i> | A | * | 5,8,14 |
| Garza vaquera | | <i>Bubulcus ibis</i> | | * | 1,11,13,14 |
| Garcita verde | Green-backed Heron | <i>Butorides virescens</i> | | * | 1,2,8,14 |
| Pedrete enmascarado | Yellow-crowned Night Heron | <i>Nyctanassa violacea</i> | | * | 1,2,10,14 |
| Kuka | Boat-billed Heron | <i>Cochlearius cochlearius</i> | | * | 5,6 |
| ÍBISES Y ESPÁTULAS | IBISES & SPOONBILS | THRESKIORNITHIDAE | | | |
| Íbis blanco o cocopato | White Ibis | <i>Eudocimus albus</i> | | * | 5,8,14 |
| Espátula rosada o chocolatera | Roseate Spoonbill | <i>Ajaia ajaja</i> | | * | 5,8 |
| CIGÜEÑAS | STORKS | CICONIIDAE | | | |
| Galletán o gaytán | Wood Stork | <i>Mycteria americana</i> | A | * | 5,8,14 |
| GANZOS Y PATOS | GESSE & DUCKS | ANATIDAE | | | |
| Cerceta ala azul | Blue-winged Teal | <i>Anas discors</i> | PR | W | 8 |
| Mergo copetón | Red-breasted Merganser | <i>Mergus serrator</i> | | V | 14 |
| ZOPILOTES | AMERICAN VULTURES | CATHARTIDAE | | | |
| Zopilote negro | Black Vulture | <i>Coragyps atratus</i> | | * | 5,7,11,13 |
| Aura común | Turkey Vulture | <i>Cathartes aura</i> | | * | 5,7,13,14 |
| Aura sabanera | Lesser Yellow-headed | <i>Cathartes burrovianus</i> | A | * | 8,14 |
| ACCIPITRIDOS | KITES, EAGLES & HAWKS | ACCIPITRIDAE | | | |
| Águila pescadora | Osprey | <i>Pandion haliaetus</i> | | * | 1,4,10,14 |
| Milano pico ganchudo | Hook-billed Kite | <i>Chondrohierax uncinatus</i> | R | * | 13 |
| Milano cola blanca | White-tailed Kite | <i>Elanus leucurus</i> | | * | 13 |
| Gavilán zancón | Crane Hawk | <i>Geranospiza caerulescens</i> | A | * | 13 |
| Gavilán cangrejero | Common Black Hawk | <i>Buteogallus anthracinus</i> | A | * | 1,14 |

| | | | E | C | O |
|-----------------------------------|------------------------------------|------------------------------------|----------------|----|---------------|
| Gavilán negro | Great Black Hawk | <i>Buteogallus urubitinga</i> | A | * | 13 |
| Gavilán gris | Gray Hawk | <i>Buteo nitidus</i> | PR | *W | 13,14 |
| Gavilán de caminos | Roadside Hawk | <i>Buteo magnirostris</i> | PR | * | 11,13,14 |
| HALCONES | CARACARAS & FALCONS | FALCONIDAE | | | |
| Guaco o kos | Laughing Falcon | <i>Herpetotheres cachinnans</i> | | * | 13,14 |
| Halcón peregrino | Perigrine Falcon | <i>Falco peregrinus</i> | | W | 14 |
| CRACIDOS | CURASSOWS & GUANS | CRACIDAE | | | |
| Chachalaca común | Plain Chahalaca | <i>Ortalis vetula</i> | | * | 10,11,12,14 |
| PAVO | TURKEY | PHASIANIDAE | | | |
| Pavo de monte pavo ocelado o cutz | Ocellated Turkey | <i>Agriocharis ocellata</i> | E | * | 11 |
| RAILDOS | RAILS | RALLIDAE | | | |
| Gallareta americana | American Coot | <i>Fulica americana</i> | | | 4,8 |
| CHORLOS | PLOVERS | CHARADRIIDAE | | | |
| Chorlo axila negra | Black-bellied Plover | <i>Pluvialis squatarola</i> | | W | 1,14 |
| Chorlito pico grueso | Wilson's Plover | <i>Charadrius wilsonia</i> | | * | 1,4 |
| Chorlito frailecillo | Semipalmated Plover | <i>Charadrius semipalmatus</i> | | W | 1 |
| Chorlito tildío | Killdeer | <i>Charadrius vociferus</i> | | W | 8 |
| AVOCETA | STILT | RECURVIROSTRIDAE | | | |
| Candelerito o abogado | Black-necked Stilt | <i>Himantopus mexicanus</i> | | * | 8 |
| PLAYEROS Y FALAROPOS | SANDPIPERS & PHALAROPES | SCOLOPACIDAE | | | |
| Patamarilla mayor | Greater Yellowlegs | <i>Tringa melanoleuca</i> | | W | 8 |
| Patamarilla menor | Lesser Yellowlegs | <i>Tringa flavipes</i> | | W | 8 |
| Playero charquero | Solitary Sandpiper | <i>Tringa solitaria</i> | | W | 8 |
| Playerito alzacolita | Spotted Sandpiper | <i>Actitis macularia</i> | | W | 1,4,14 |
| Vuelvepedras común | Ruddy Turnstone | <i>Arenaria interpres</i> | | *W | 1,14 |
| Playero canuto | Red Knot | <i>Calidris canutus</i> | | W | 1,14 |
| Playerito correlón | Sanderling | <i>Calidris alba</i> | | W | 1 |
| Playerito mínimo | Least Sandpiper | <i>Calidris minutilla</i> | | W | 1,3 |
| GAVIOTAS Y GOLONDRINAS | | GULLS, TERNS & SKIMMERS | LARIDAE | | |
| Gaviota gritona | Laughing Gull | <i>Larus atricilla</i> | | * | 1,4,10,14 |
| Golondrina marina real | Royal Tern | <i>Sterna maxima</i> | | * | 1,3,4,10,14 |
| G. marina pico negro | Sandwich Tern | <i>Sterna sandvicensis</i> | | * | 4 |
| Golondrina marina menor | Least Tern | <i>Sterna antillarum</i> | P | *S | 7 |
| PALOMAS Y TÓRTOLAS | PIGEONS & DOVES | COLUMBIDAE | | | |
| Paloma doméstica | Feral Pigeon | <i>Columba livia</i> | | * | 1,14 |
| Paloma morada | Pale-vented Pigeon | <i>Columba cayennensis</i> | | * | 11,13,14 |
| Paloma escamosa | Scale Pigeon | <i>Columba speciosa</i> | R | * | 13 |
| Paloma pico rojo | Red-billed Pigeon | <i>Columba flavirostris</i> | | * | 11,12,13 |
| P. ala blanca o sak pak'al | Zenaida Dove | <i>Zenaida asiatica</i> | | * | 1,11,12,13,14 |

| | | | E | C | O |
|------------------------------|---------------------------|----------------------------------|----|---|---------------|
| Tortolita común | Common Ground Dove | <i>Columbina passerina</i> | | * | 14 |
| Tortolita rojiza | Rudy Ground Dove | <i>Columbina talpacoti</i> | | * | 1,8,10,11,14 |
| Paloma caminera | White-tipped Dove | <i>Leptotila verreauxi</i> | | * | 11,14 |
| PSITACIDOS | PARROTS | PSITTACIDAE | | | |
| Perico pecho sucio | Olive-throated Parakeet | <i>Aratinga nana [astec]</i> | | * | 1,13,14 |
| Loro frente blanca | White-fronted Parrot | <i>Amazona albifrons</i> | | * | 10,11,13 |
| Loro yucateco | Yellow-lored Parrot | <i>Amazona xantholora</i> | AE | * | 11,13 |
| Loro frente roja | Red-lored Parrot | <i>Amazona autumnalis</i> | | * | 11 |
| CUCOS | CUKOOS | CUCULIDAE | | | |
| Cuco pico amarillo | Black-billed Cuckoo | <i>Coccyzus americanus</i> | | T | 13 |
| Cuco manglero | Mangrove Cuckoo | <i>Coccyzus minor</i> | | * | 14 |
| Cuco marrón | Squirrel Cuckoo | <i>Piaya cayana</i> | | * | 13,14 |
| Garrapatero, pijuy o chicbul | Groove-billed Ani | <i>Crotophaga sulcirostris</i> | | * | 10,11,12,14 |
| BUHO | TYPICAL OWLS | TYTONIDAE | | | |
| Búho cornudo | Great Horned Owl | <i>Bubo virginianus</i> | | * | 14 |
| Vieja común | Ferruginous Pygmy-Owl | <i>Glaucidium brasilianum</i> | A | * | 1,11,12,13 |
| TAPACAMINOS | GOATSUCKERS | CAPRIMULGIDAE | | | |
| Tapacamino halcón | Lesser Nighthawk | <i>Chordeiles acutipennis</i> | | * | 11 |
| Tapacamino puhuy | Pauraque | <i>Nyctidromus albicollis</i> | | * | 13 |
| CHUPAFLORES | HUMMINGBIRDS | TROCHILIDAE | | | |
| Esmeralda tijereta | Fork-tailed Emerald | <i>Chlorostilbon canivetii</i> | | * | 13 |
| Chupaflor cándido | White-bellied Emerald | <i>Amazilia candida</i> | R | * | 8,14 |
| Chupaflor pecho verde | Green-breasted Mango | <i>Anthracothorax prevostii</i> | | * | 13 |
| Chupaflor canela | Cinnamon Hummingbird | <i>Amazilia rutila</i> | | * | 8,10,14 |
| Trogón amarillo | Black-headed Trogon | <i>Trogon melanocephalus</i> | | * | 10,11,12,13 |
| MARTÍN PESCADOR | KINGFISHER | ALCEDINIDAE | | | |
| Martín pescador norteño | Belted Kingfisher | <i>Ceryle alcyon</i> | | W | 1,8 |
| CARPINTEROS | WOODPECKERS | PICIDAE | | | |
| Carpintero yucateco | Red-vented Woodpecker | <i>Melanerpes pygmaeus</i> | E | * | 13,14 |
| carpintero común | Golden-fronted Woodpecker | <i>Melanerpes aurifrons</i> | | * | 9,10,11,13,14 |
| Carpintero lineado | Lineated Woodpecker | <i>Dryocopus lineatus</i> | R | * | 1 |
| Carpintero real | Pale-billed Woodpecker | <i>Campephilus guatemalensis</i> | R | * | 14 |
| TREPADORES | WOODCREEPERS | DENCROCOLAPTIDAE | | | |
| Trepador goteado | Ivory-billed Woodcreeper | <i>Xiphorhynchus flavigaster</i> | | * | 13 |
| MOSQUEROS | TYRANT FLYCATCHERS | TYRANNIDAE | | | |
| Elenia antillana | Caribbean Elaenia | <i>Elaenia martinica</i> | | * | 3,11 |
| Elenia vientre amarillo | Yellow-bellied Elaenia | <i>Elaenia flavogaster</i> | | * | 11 |
| Mosquero pico torcido | Northern Bentbill | <i>Oncostoma cinereigulare</i> | R | * | 13 |
| Mosquerito ojo blanco | Yellow-olive Flycatcher | <i>Tolmomyas sulphurescens</i> | | * | 13 |
| Espatulilla amarilla | Common Tody-Flycatcher | <i>Todirostrum cinereum</i> | R | * | 10,13 |

| | | | E | C | O |
|--|------------------------------------|---|---|----|---------------|
| Pibí oriental | Eastern Wood-Pewee | <i>Contopus virens</i> | | T | 10 |
| Pibí tropical | Tropical Pewee | <i>Contopus cinereus</i> | * | | 7,9,13 |
| Mosquerito garganta blanca | White-throated Flycatcher | <i>Empidonax albicularis</i> | | W | 11 |
| Copetón yucateco | Yucatan Flycatcher | <i>Myiarchus yucatanensis</i> | E | * | 11,13 |
| Copetón triste | Dusky-capped Flycatcher | <i>Myiarchus tuberculifer</i> | | * | 9,10,13 |
| Copetón tirano | Brown-crested Flycatcher | <i>Myiarchus tyrannulus</i> | | * | 10,13 |
| Luis grande | Great Kiskadee | <i>Pitangus sulphuratus</i> | * | | 9,10,12,13,11 |
| Luis picudo | Boat-billed Flycatcher | <i>Megarynchus pitangua</i> | | * | 12,13 |
| Luis gregario | Social Flycatcher | <i>Myiozetetes similis</i> | | * | 10,12,13 |
| Tirano tropical | Tropical Kingbird | <i>Tyrannus melancholicus</i> | * | | 7,9,10,13,14 |
| Tirano viajero | Eastern Kingbird | <i>Tyrannus tyrannus</i> | | T | 8,10,14 |
| Tijera rosada | Scissor-tailed Flycatcher | <i>Tyrannus forficatus</i> | | T | 11 |
| Cabezón degollado | Rose-throated Becard | <i>Pachyrhamphus aglaiae</i> | * | | 13,14 |
| Titira puerquita | Masqued Tityra | <i>Tityra semifasciata</i> | | * | 11,12,13 |
| GOLONDRINAS | SWALLOWS | HIRUNDINIDAE | | | |
| Martín gris | Gray-breasted Martin | <i>Progne chalybea</i> | | | 8 |
| Golondrina bicolor | Tree Swallow | <i>Tachycineta bicolor</i> | | | 8 |
| Golondrina manglera | Mangrove Swallow | <i>Tachycineta albilinea</i> | | | 1,8,10,14 |
| Golondrina de Ridgeway o golondrina aliaserrada | Ridgeway's Rough-w. Swallow | <i>Stelgidopteryx sp.</i> (<i>serripennis</i> o <i>ridgwayi</i>) | | | 11 |
| Golondrina tijereta | Barn Swallow | <i>Hirundo rustica</i> | | Tw | 1,8,10,14 |
| CÓRVIDOS | JAYS | CORVIDAE | | | |
| Chara verde | Green Jay | <i>Cyanocorax yncas</i> | * | | 13 |
| Chara yucateca | Yucatan Jay | <i>Cyanocorax yucatanicus</i> | * | | 9,10,11,13,14 |
| SALTAPAREDES | WRENS | TROGLODYTIDAE | | | |
| Saltapared pecho manchado | Spot-breasted Wren | <i>Thryothorus maculipectus</i> | * | | 14 |
| SILVIDOS Y ZORZALES | GNATCATCHER | MUSCACAPIDAE | | | |
| Perlita común | Blue-gray Gnatcatcher | <i>Polioptila caerulea</i> | * | | 11 |
| VIREOS | VIREOS | VIREONIDAE | | | |
| Vireo ojo blanco | White-eyed Vireo | <i>Vireo griseus</i> | | W | 10,11,13,14 |
| Vireo manglero | Mangrove Vireo | <i>Vireo pallens</i> | * | | 10,11,12,14 |
| Vireo garganta amarilla | | <i>Vireo flavifrons</i> | | W | 8,14 |
| Vireo yucateco | Yucatan Vireo | <i>Vireo magister</i> | * | | 8 |
| Vireo garganta amarilla | Yellow-throated Vireo | <i>Vireo flavifrons</i> | | W | 8,14 |
| Alegrín | Rufous-browed Peppershrike | <i>Cyclarhis gujanensis</i> | * | | 10,11,12,14 |
| MIMIDOS | MOCKINGBIRDS & TRASHERS | MIMIDAE | | | |
| Cenzontle tropical | Tropical Mockingbird | <i>Mimus gilvus</i> | * | | 1,10,13,14 |
| Pájaro gato negro | Black Catbird | <i>Melanoptila glabrirostris</i> | E | * | 7,10,11,13,14 |
| EMBERIZIDAE | | | | | |
| CHIPES | WOODWABLWERS | PARULINAE | | | |
| Chipe peregrino | | <i>Vermivora peregrina</i> | | T | 13 |
| Parula norteña | Northern Parula | <i>Parula americana</i> | | W | 11,14 |

| | | | E | C | O |
|----------------------------|--|--|----|----|---------------|
| Chipe amarillo | Golden Warbler | <i>Dendroica petechia [aestiva]</i> | | W | 10,14 |
| Chipe manglero | Mangrove Warbler | <i>Dendroica petechia erithachorides</i> | | * | 7,8,10,14 |
| Chipe flanco castaño | Chestnut-sided Warbler | <i>Dendroica pensylvanica</i> | T | 13 | |
| Chipe de magnolia | | <i>Dendroica magnolia</i> | R | W | 11,12,13,14 |
| Chipe coronado | Yellow-rumped (Myrtle) | <i>Dendroica coronata [coronata]</i> | | W | 9,10,14 |
| Chipe pecho negro | Black-throated Green Warbler | <i>Dendroica virens</i> | R | W | 11,13 |
| Chipe dominico | Yellow-throated Warbler | <i>Dendroica dominica</i> | | W | 8,14 |
| Chipe playero | Palm Warbler | <i>Dendroica palmarum</i> | | W | 9,10,13 |
| Chipe trepador | Black-and-White Warbler | <i>Mniotilta varia</i> | | W | 10,13 |
| Pavito migratorio | American Redstart | <i>Setophaga ruticilla</i> | | W | 10,11 |
| Chipe charquero o arroyero | Northern Waterthrush | <i>Seiurus noveboracensis</i> | R | W | 8,11,13,14 |
| Mascarita común | Common Yellowthroat | <i>Geothlypis trichas</i> | | W | 8,9,14 |
| Chipe encapuchado | Hooded Warbler | <i>Wilsonia citrina</i> | A | W | 13 |
| Chipe corona dorada | Golden-crowned Warbler | <i>Basileuterus culicivorus</i> | R | * | 8 |
| TANGARAS | TANAGERS | THRAUPINAE | | | |
| Eufonía garganta negra | Scrub Euphonia | <i>Euphonia affinis</i> | | * | 10,13 |
| Tangara roja | Summer Tanager | <i>Piranga rubra</i> | | W | 14 |
| CARDENALES | CARDINALS, GROSBEAKS & ALLIES | CARDINALINAE | | | |
| Saltador cabeza negra | Black-headed Saltator | <i>Saltator atriceps</i> | | * | 10,12,13 |
| Cardenal | Northern Cardinal | <i>Cardinalis cardinalis</i> | | * | 11,13,14 |
| Picogrueso degollado | Rose-breasted Grosbeak | <i>Pheucticus ludovicianus</i> | | W | 13 |
| Picogrueso azul | Blue Grosbeak | <i>Guiraca caerulea</i> | | W | 11,13 |
| Azulito | Indigo Bunting | <i>Passerina cyanea</i> | | W | 13,14 |
| GORRIONES | EMBERIZINE FINCHES | EMBERIZINAE | | | |
| Dominico | | <i>Sporophila torqueola</i> | | * | 10,11,12,14 |
| Corrión de Lincoln | Lincoln's Sparrow | <i>Melospiza lincolni</i> | | V | 10 |
| Tordo cantor | | <i>Dives dives</i> | | * | 1,8,10,11,13 |
| TORDOS Y CALANDRIAS | BLACKBIRDS & ORIOLES | ICTERINAE | | | |
| Zanate mexicano | Great-tailed Grackle | <i>Quiscalus mexicanus</i> | | * | 1,10,11,12,14 |
| Tordo ojo rojo | Bronzed Cowbird | <i>Molothrus aeneus</i> | | * | 1,10,13,14 |
| | | <i>Icterus dominicensis</i> | | | |
| Calandria capucha negra | Black-cowled Oriole | <i>[prothemelas] [prothemelas]</i> | | * | 11,14 |
| Calandria cucullada | Hooded Oriole | <i>Icterus cucullatus</i> | A | * | 9,10,13,14 |
| Calandria espalda amarilla | Yellow-backed Oriole | <i>Icterus chrysater</i> | | * | 9,14 |
| Calandria yucateca | Orange Oriole | <i>Icterus auratus</i> | A* | E* | 13 |
| Calandria campera | Altamira Oriole | <i>Icterus gularis</i> | | * | 10,13 |
| Calandria Norteña | Northern Oriole | <i>Icterus galbula</i> | | W | 13,14 |
| Cacique pico claro | Yellow-billed Caciique | <i>Amblycercus holosericeus</i> | | * | 1,13,14 |



COMITE COMUNITARIO
PARA LA PROTECCION Y MANEJO
DE LOS RECURSOS COSTEROS
DE XCALAK, Q. ROO, MEXICO.



COASTAL RESOURCES CENTER
University of Rhode Island