

Bird Research

Overview

Research Contacts: Isamo Suzuki (lead), Arely Ocaña, Ximena Diaz, Martin Diaz, Yoseline Fuerte, Eva Fuerte, Carlos Fuerte, Yajaira Torres, Chrystal Meza, Elena "Nena" Estrada, Maru Ramirez, Kenia Tarin

Locations:

- Group 1: Gemelito 1 /Gemelito 2 /Cabeza de Caballo
- Group 2: Calavera/Tijereta (the South end of Coronado)

Supplies:

- Field research:
 - o All Supplies on **General Field Research Supplies Check List** (see above)
 - o Clipboard (1/boat)
 - o Bird ID Card (laminated) (2/boat)
 - o Islas Datasheet (Per Island) copied on Write in the Rain paper (4/boat)
 - o Islas Datasheet (Per Trip) Copied on Write in the Rain Paper (1/boat)
 - o Binoculars (4/boat)
 - o Counters (4/boat)
 - o GPS (1/boat)

Overview of Research:

This research group was started in 2020 and consists of 3 men (who are mainly the boat guides) and 6 women (who do more with data collection). Three of them travel by boat to monitor the islands and each group goes approximately once a week during Jun-October (funding dependent).

They are supported by CONANP. The data collected is used by CONANP to make management decisions. At the five research locations above, they monitor tourism, fishing, bird life, mammals, and anything else of note.

Timing:

Time	Activity
7:20 – 7:25AM	Field Research Manager <ul style="list-style-type: none"> <input type="checkbox"/> Remind Community Research Manager to communicate with boat guides to: <ul style="list-style-type: none"> o Give staff five minutes to do introductions once all teams are loaded on boats. o Stop boats approximately five minutes from the islands to allow researchers to review research methods, assign roles, and allow students to make observations of the islands before driving up to the island to collect data.
7:25 – 7:35AM	Gear Check
7:35 – 7:50AM	Drive to Boat Ramp
7:50 – 8:00AM	Park, Unload Vans, Final Gear Check & Load Boats
8:00 – 8:10AM	Introductions <ul style="list-style-type: none"> <input type="checkbox"/> Everyone on the boat shares their name. <input type="checkbox"/> My Ocean Community Building Activity.

	<ul style="list-style-type: none"> ○ Each person responds to one prompt in the language of their choice. ○ The first time I came to the ocean, I was ____. <li style="padding-left: 20px;">▪ <i>La primera vez que vine al mar, tenía ____ años.</i> ○ One thing the ocean has taught me is ____. <li style="padding-left: 20px;">▪ <i>El mar me ha enseñado ____</i> ○ My favorite thing to see out here is ____. <li style="padding-left: 20px;">▪ <i>Mi cosa favorita de ver aquí es ____</i>
8:10 – 8:20AM	<p>Drive to Islands</p> <ul style="list-style-type: none"> <input type="checkbox"/> Group 1: Collect data at: <ul style="list-style-type: none"> ○ Los Gemelos (two small adjacent islands) - high bird populations ○ Cabeza de Caballo - low bird populations <input type="checkbox"/> Group 2: Collect data at: <ul style="list-style-type: none"> ○ Calavera - high bird populations ○ Tijeretas (part of Coronado) - low bird populations <input type="checkbox"/> Stop five minutes before getting to the islands to review research methods. <ul style="list-style-type: none"> ○ Students take out science notebooks and make observations of the island they are about to collect data on.
8:20 – 8:30AM	<p>Review Research Methods & Assign Roles</p> <ul style="list-style-type: none"> <input type="checkbox"/> Determine jobs on each boat (students + adult): <ul style="list-style-type: none"> ○ Data recorder (1/boat) ○ Los Gemalitos <ul style="list-style-type: none"> ▪ Bird counter: Pelicans (1) ▪ Bird counter: Blue-footed Boobies (1) ▪ Bird Counter: Gulls (1) ▪ Bird counter: Other species (1) ○ Cabaza de Caballo: <ul style="list-style-type: none"> ▪ Bird counter: Pelicans (1) ▪ Bird counter: Blue-footed Boobies (1) ▪ Bird counter: Cormorants (1) ▪ Bird counter: Other species (1) ○ Calavera: <ul style="list-style-type: none"> ▪ Bird counter: Gulls (1) ▪ Bird counter: Blue-footed Boobies (1) ▪ Bird counter: Cormorants (1) ▪ Bird counter: Other species (1) ○ Tijereta <ul style="list-style-type: none"> ▪ Bird counter: Pelicans (1) ▪ Bird counter: Blue-footed Boobies (1) ▪ Bird counter: Cormorants (1) ▪ Bird counter: Other species (1)
8:30– 10:00AM	<p>Collect Data</p> <ul style="list-style-type: none"> <input type="checkbox"/> 1st Island <ul style="list-style-type: none"> ○ Each boat will slowly circle the island.

	<ul style="list-style-type: none"> ○ Each “Bird counter” will count using the counter only their species of bird. <ul style="list-style-type: none"> ▪ 1 “click” per bird of their species they see. ▪ Continue counting until the researcher lets you know you have gone completely around the island. ▪ Report your final number to the Data recorder. ○ Bird counter: Other species will tell the data recorder when they see a new species and continue to add to this number as you see more of this bird. <input type="checkbox"/> 2 nd Island <ul style="list-style-type: none"> ○ Stop five minutes before getting to the islands to review research methods. ○ Students take out science notebooks and make observations of the island they are about to collect data on. ○ Switch Roles ○ Repeat above for the 2nd island
10:00 – 10:20AM	Transport to Field Trip Site
10:20 – 10:25AM	Unload Boats <ul style="list-style-type: none"> <input type="checkbox"/> Students: Snorkel gear, wetsuits, water bottles, hat, sunglasses <input type="checkbox"/> Boat Safety Person: First aid kit, snacks, snorkel gear, wetsuit, hat, water bottle, sunglasses
10:25 – 10:30AM	Prep for Snorkeling/ Trip Lead: <ul style="list-style-type: none"> <input type="checkbox"/> Assign a lifeguard + lifeguard to check current <input type="checkbox"/> Meet w/ all adults to: <ul style="list-style-type: none"> ○ Review student swimming expectations for beach fun group. ○ Review snorkel buddies & boundaries ○ Assign a return time for Group 1 ○ Assign adult to hand out snorkel scrunchies ○ Assign a staff member to supervise beach fun.
10:30 – 11:00AM	Snorkel Group 1/Beach Fun Group 2 <ul style="list-style-type: none"> <input type="checkbox"/> Beach Fun Supervisor: <ul style="list-style-type: none"> ○ Pass out snacks & beach fun toys. ○ 10 minutes before their snorkel rotation have students get ready. ○ Pass out snorkel scrunchies
11:00 – 11:05AM	Swap snorkel partners <ul style="list-style-type: none"> <input type="checkbox"/> Trip Lead: Collect snorkel scrunchies from returning group.
11:05 – 11:35AM	Snorkel Group 2/Beach Fun Group 1
11:35 – 11:45PM	Load Boats & Depart <ul style="list-style-type: none"> <input type="checkbox"/> All students are wearing life jackets.
11:45 – 12:05PM	Transport to Dock <ul style="list-style-type: none"> <input type="checkbox"/> Everyone store gear in bags and clean up boat before landing at the dock.
12:05 – 12:15PM	Thank You & Unload Boats <ul style="list-style-type: none"> <input type="checkbox"/> Unload all gear from boats. <input type="checkbox"/> Thank boat guides as you depart.
12:15 – 12:30PM	Load Vans & Return to Field Station <ul style="list-style-type: none"> <input type="checkbox"/> Students return home in the vehicles they came in.

12:30 – 12:50PM	<p>Research Reset</p> <ul style="list-style-type: none"><input type="checkbox"/> Boat safety person:<ul style="list-style-type: none">○ Return all safety gear to storage (radio, EPIRB, keys, Boat Bag, etc.)○ Check out with trip lead.<input type="checkbox"/> Everyone:<ul style="list-style-type: none">○ Help to return research gear to kitchen or storage.○ Clean all wetsuits and snorkel gear in dunk tanks.○ Hang wet suits to dry.○ Put life vests and snorkel gear away.○ Rinse off and change into dry clothes for lunch
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