



KIDS ENVIRONMENTAL LESSON PLANS

This lesson developed by:



Hooked on Conservation

Overview:

This game demonstrates the effects of longline fishing on the overall health of an ecosystem.

Ocean Literacy Principles:

5. The ocean supports a great diversity of life and ecosystems
6. The ocean and humans are inextricably interconnected
7. The ocean is largely unexplored

Key Concepts:

- Differences between fishing methods.
- The negative impacts of longline fishing (bycatch).

Materials:

- heavy string
- long wooden ruler or bamboo pole
- small magnets
- glue
- marine animal printouts
- crayons, colored pencils or markers
- scissors

Set-up Prior to Activity:

Cut out the pieces of string for each group of students, keeping in mind that the string should be long enough to simulate the longline fishing gear, at least 4 feet. Measure out even increments, maybe every 3-4 inches, on each long string and make a mark to indicate where the kids should glue the magnets.



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Then, cut out pieces of string that are only 2 ft. long, and attach them to an extended ruler or pole, simulating a fishing rod, showing a more targeted type of fishing method.

Duration:

60 minutes for preparing activity with kids (coloring, gluing, etc)

30 minutes for activity

15 minutes for discussion

Physical Activity:

Low

Background:

The Gulf of Mexico provides important habitat for rare and beautiful marine species including Atlantic bluefin tuna, white marlin, sailfish and sharks. But even before the Gulf oil spill disaster, those species and more faced a significant threat from surface longline fishing gear.

Surface longline boats set hundreds of baited hooks on lines that stretch on average of 30 miles. Fishermen in the Gulf use this indiscriminate and wasteful fishing method to target yellowfin tuna and swordfish, but it also catches and kills at least 84 species of other animals including spawning bluefin, endangered sea turtles and hard fighting game fish like white marlin.

Commercial fishermen could use alternative, more selective types of gear and still keep fishing, so there is no need for them to move out of the Gulf of Mexico or continue to kill bluefin tuna, marlin, sailfish and endangered sea turtles.

Activity:

1. Divide the class into groups with 3-4 children per group.
2. Give each group a set of marine animal cutouts.
3. Have the class color and cut out the animals.
4. Have the class paste one magnet on the back of each of the marine animal cut outs.
5. Have each group paste the magnets onto the 'longline' fishing line along the indicated marks.
6. Have each team paste a magnet to one end each 'fishing rod'.
7. Each group should spread out their marine animals along the floor at random.
8. As a class decide the target animal that the teams will fish for. As a team, they should fish for the target animal with the longline, each taking turns to see what they can catch.
9. After each team member has taken a turn with the longline, put all of the marine animals back in a random order on the floor, and ask them to fish for specific marine animals using the fishing rod.

Discussion:

- Discuss the differences that the students experienced between the two types of fishing gear (including what they intended to catch and what types of additional animals they caught). This game is meant to teach the lessons of bycatch, and to show the students the importance of

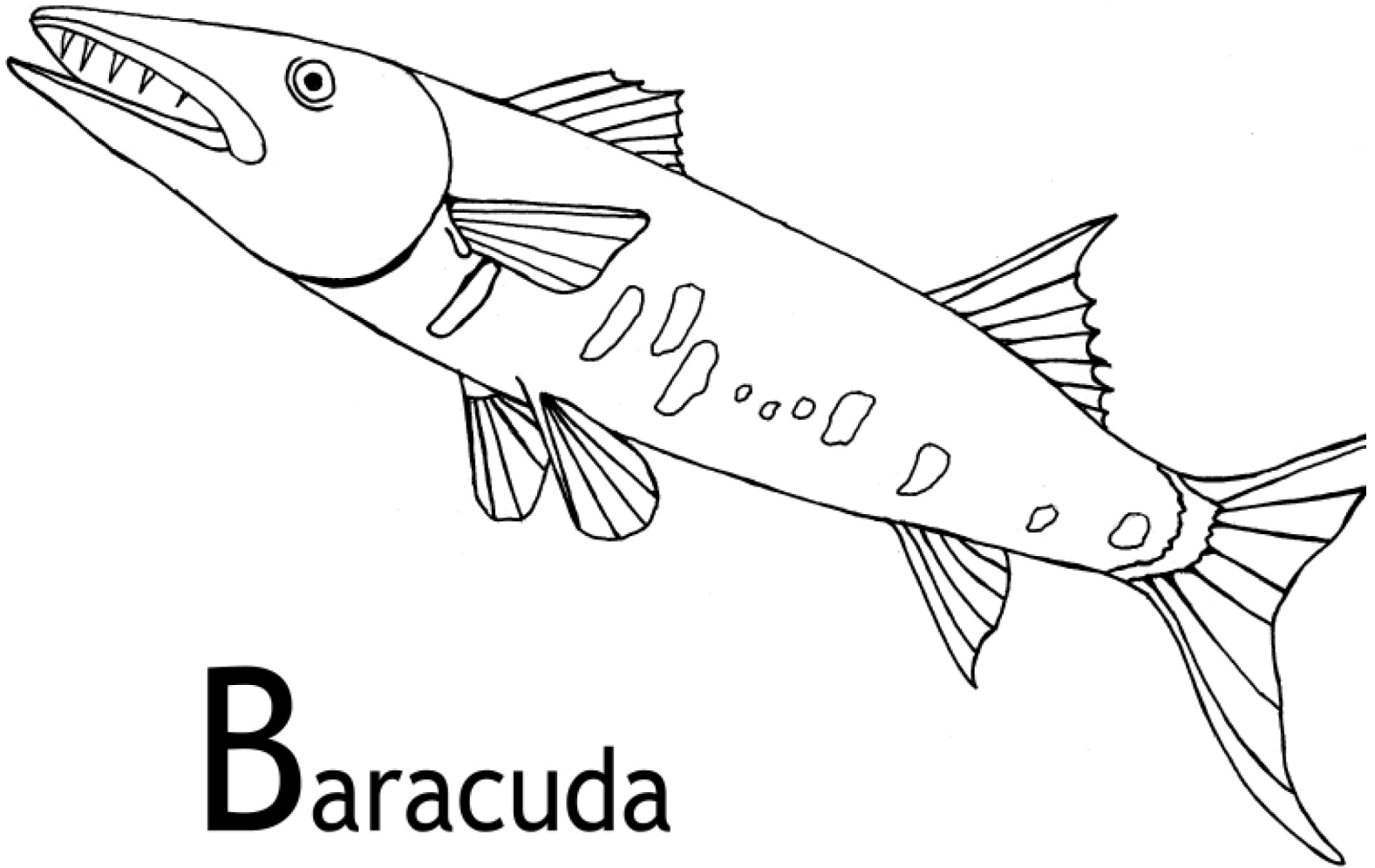


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fishing with appropriate gear types to help keep fishery stocks at healthy levels.

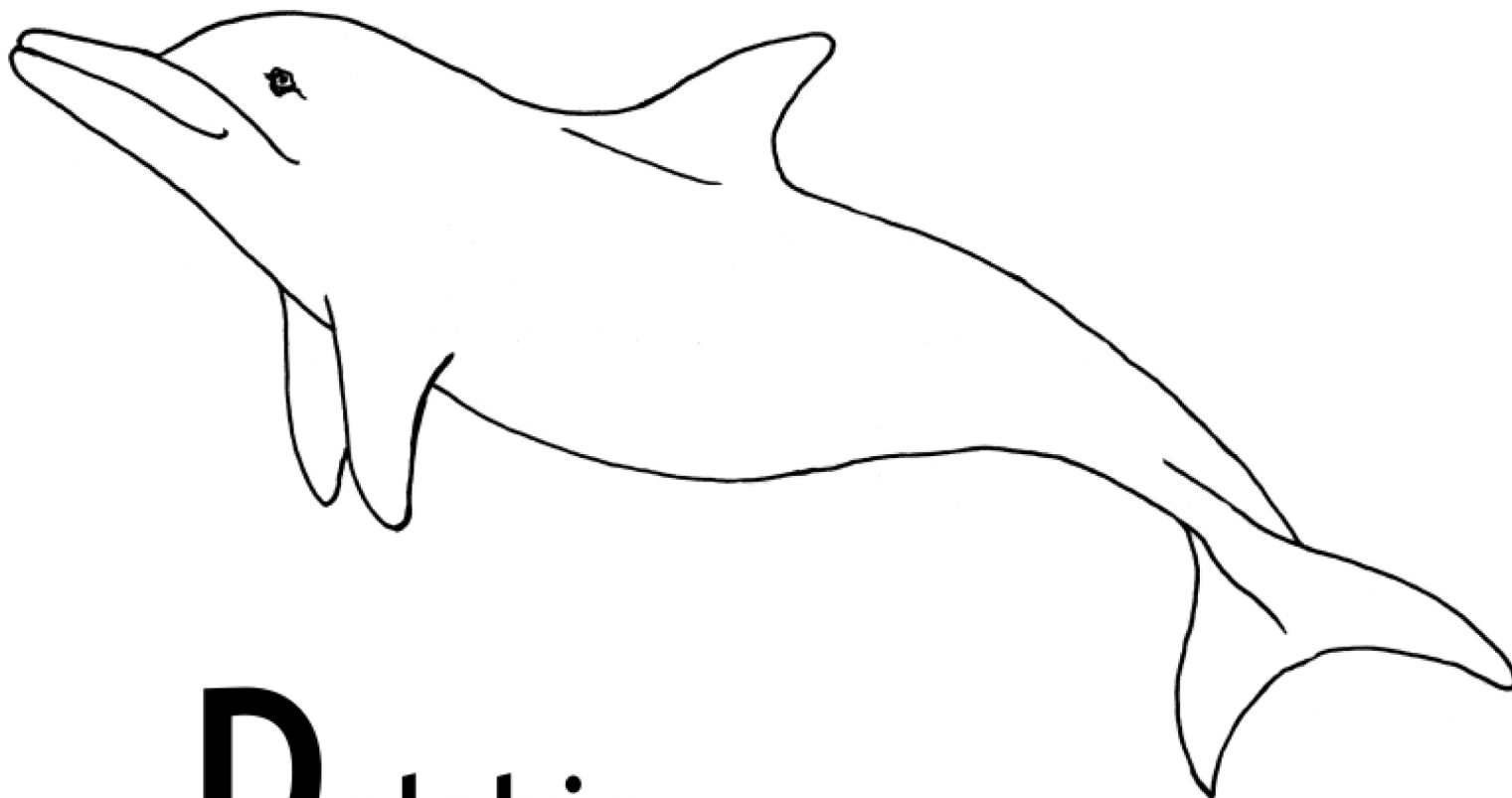
- What does 'Hooked on Conservation' demonstrate about fishing gears?
- Why would a fisherman prefer longline fishing to rod fishing methods?
- Why would a fisherman prefer rod fishing to longline fishing methods?
- What can you do to help support healthier fishing practices?

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Barracuda

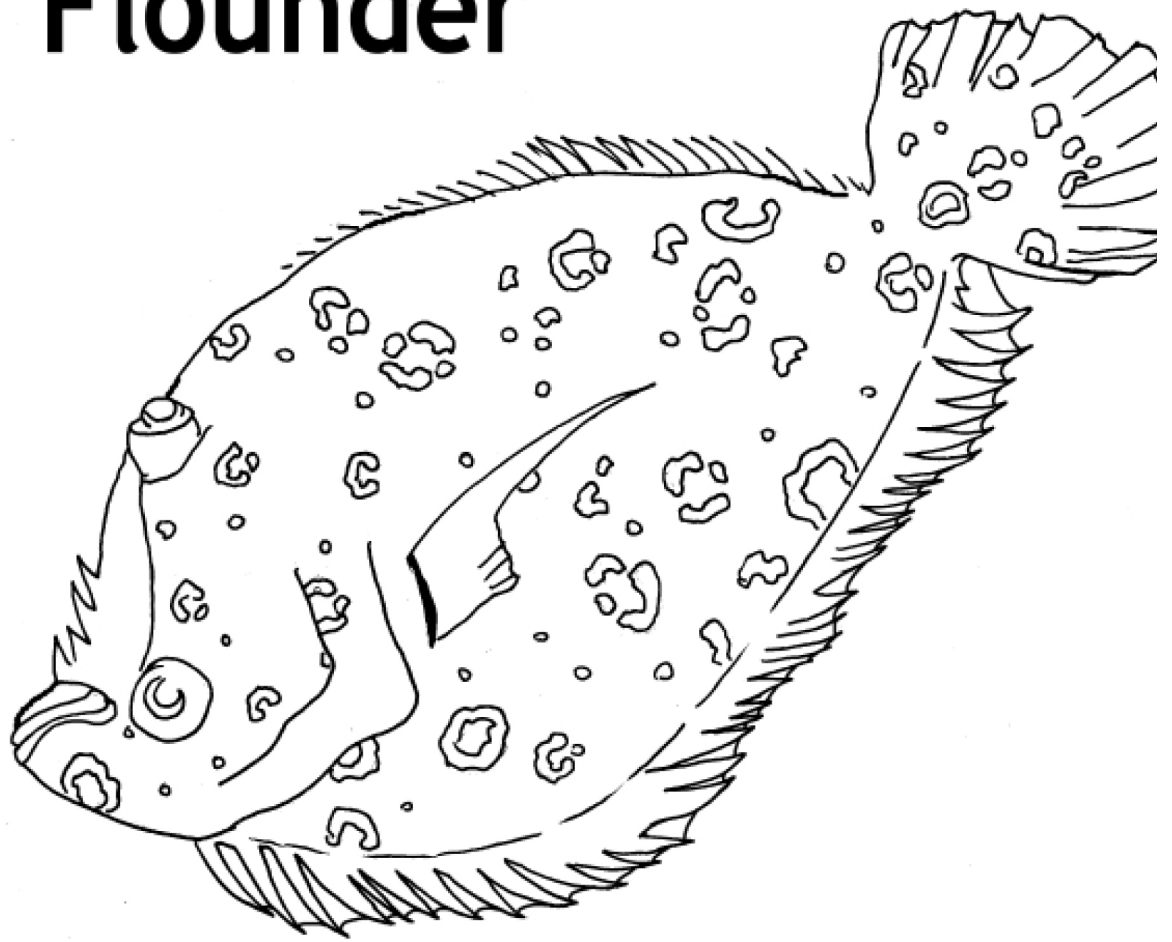
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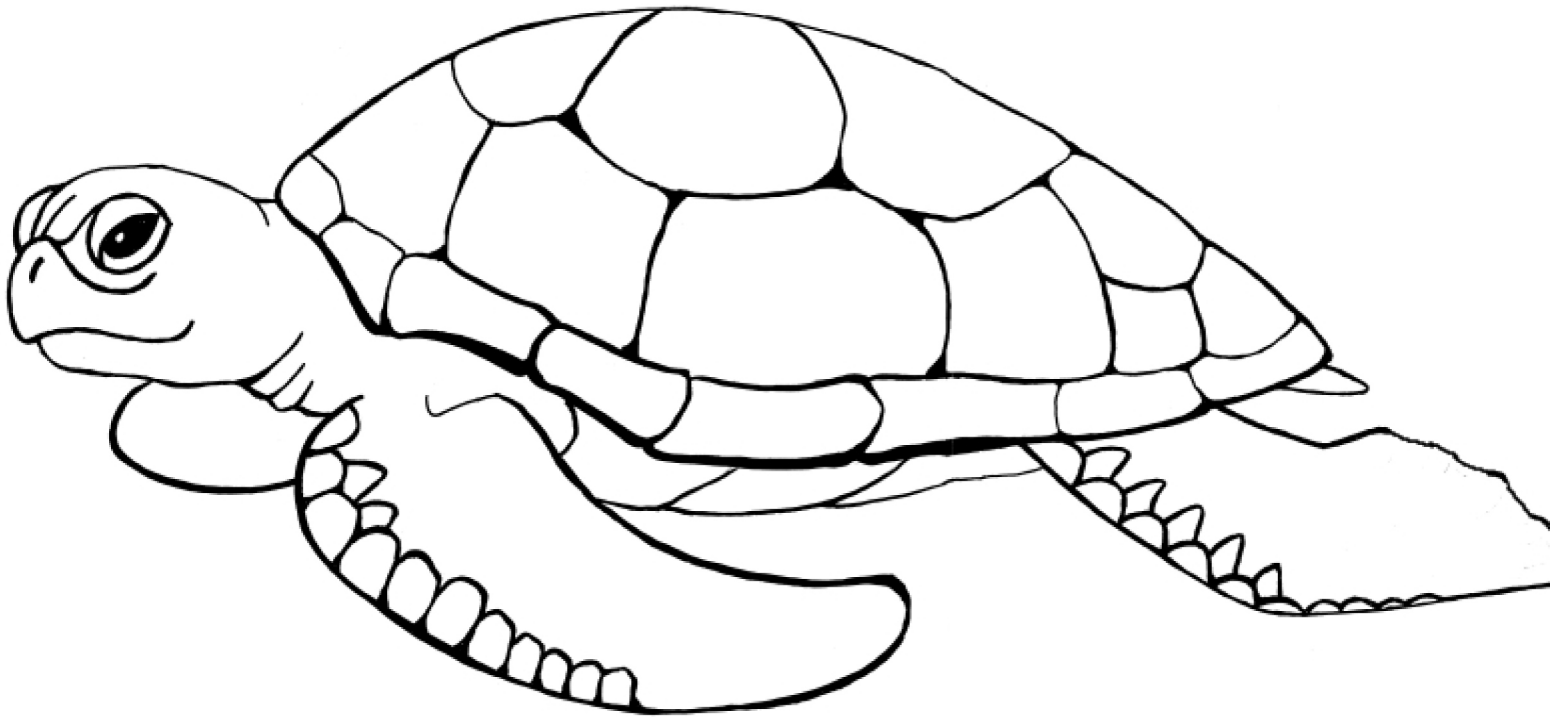
Dolphin

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Eyed Flounder

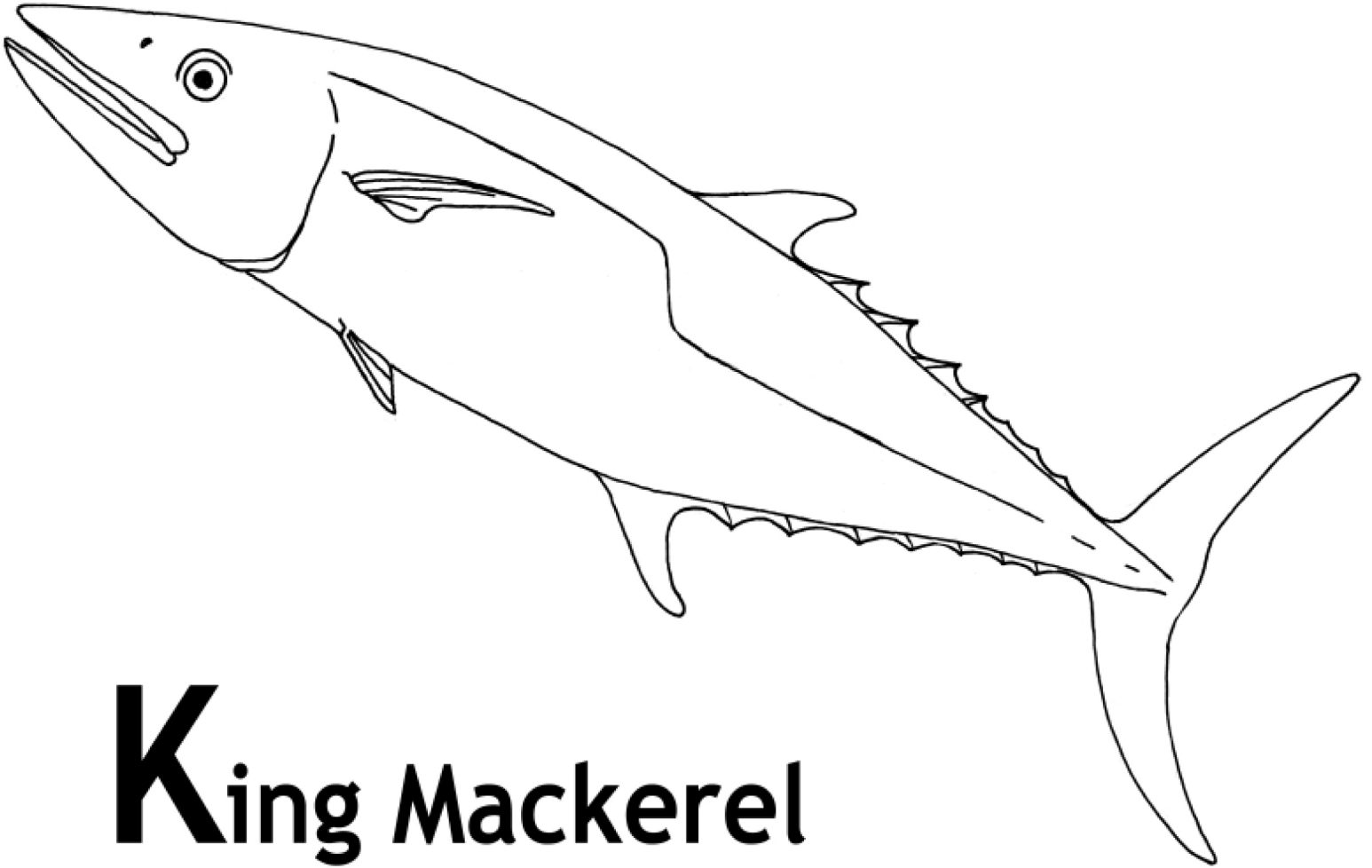


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Green Turtle

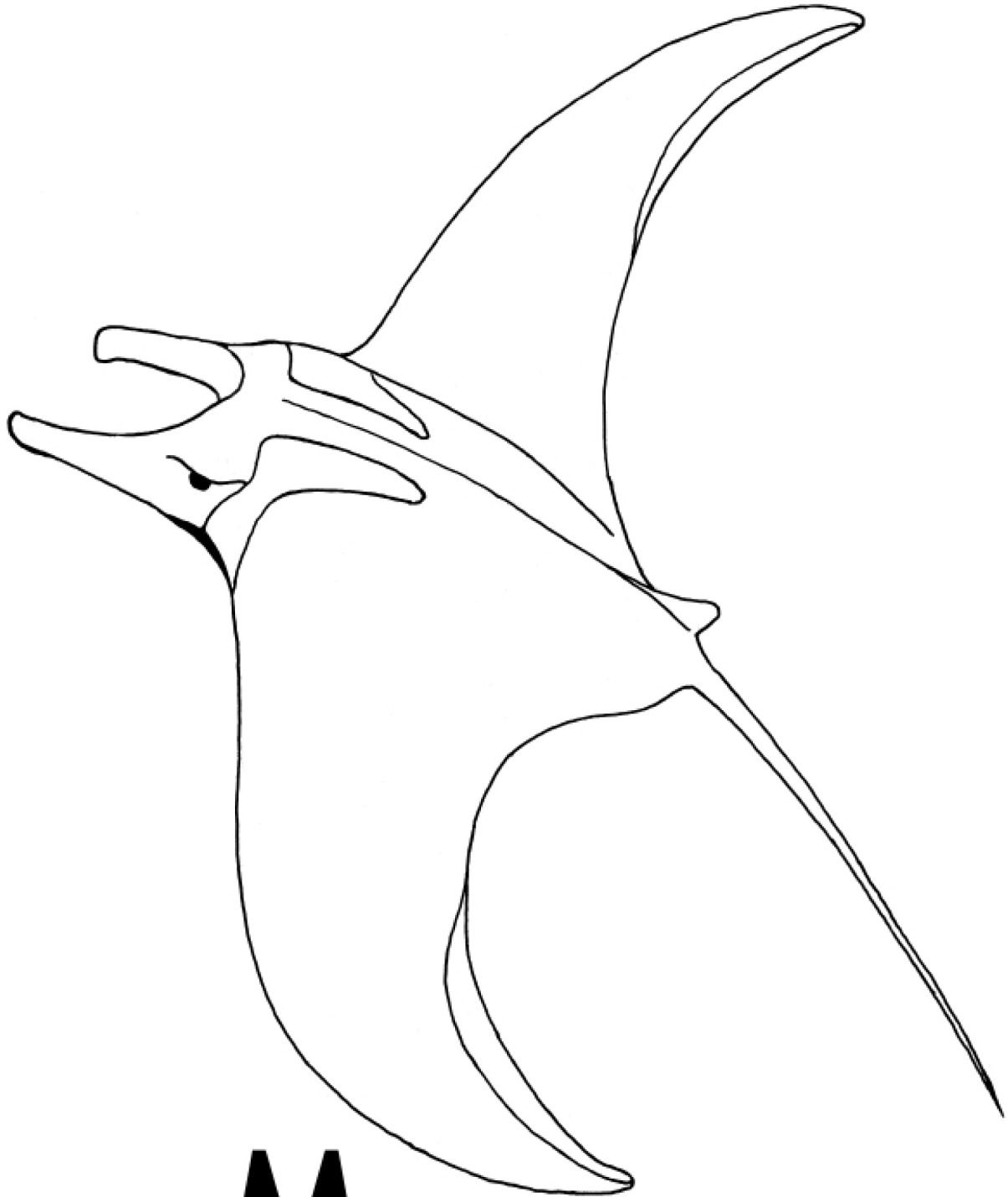
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King Mackerel

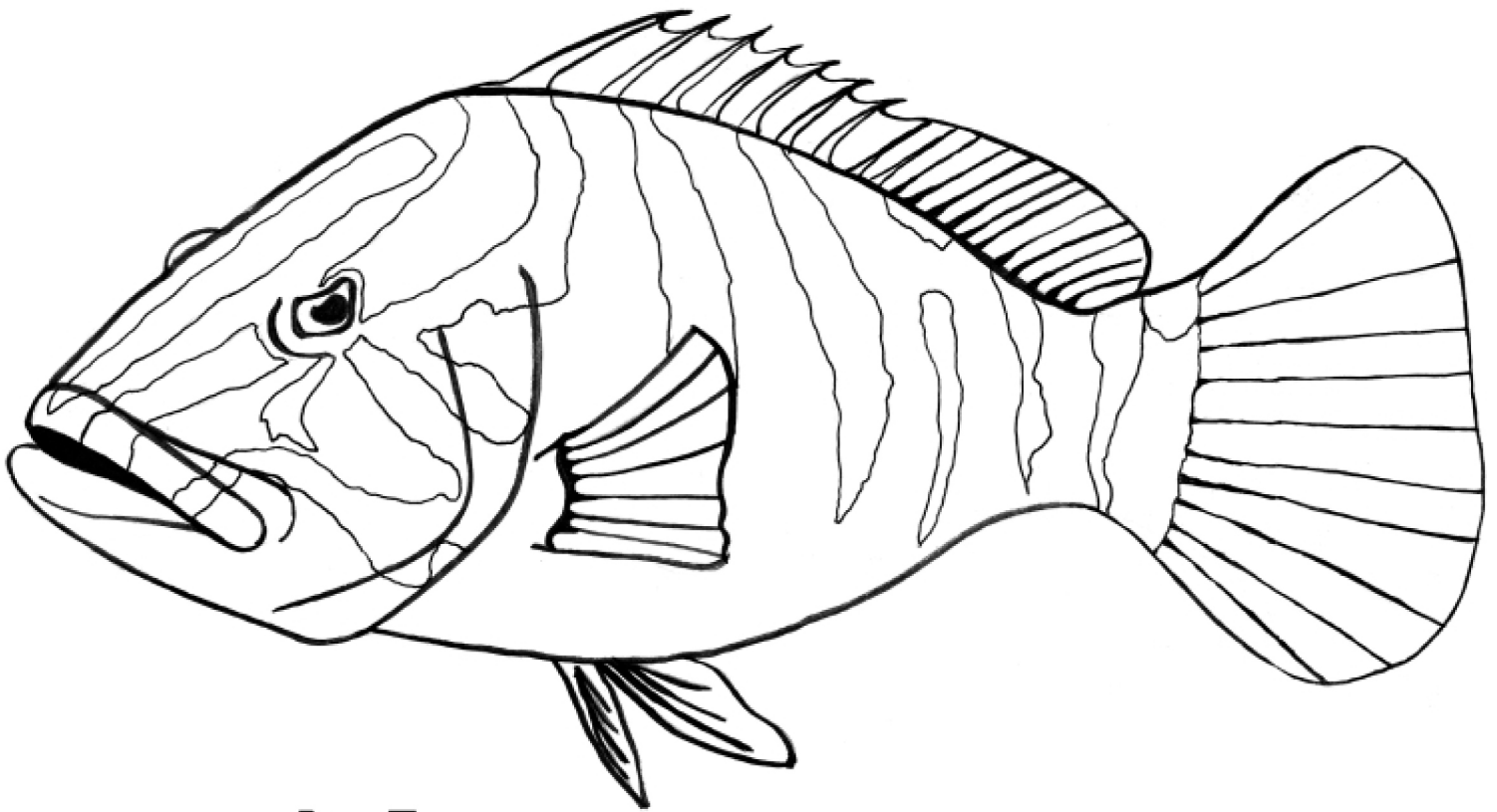


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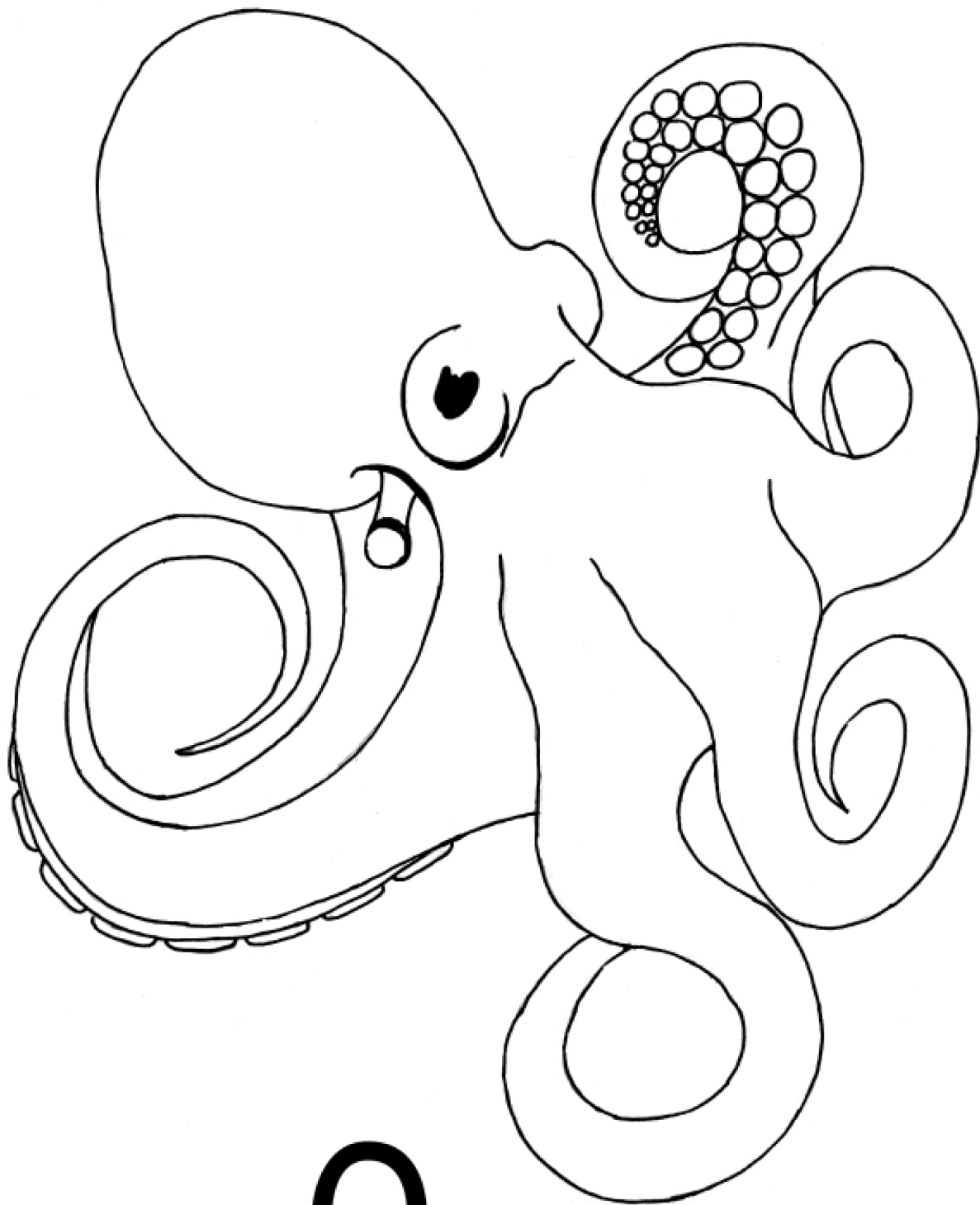
Manta Ray

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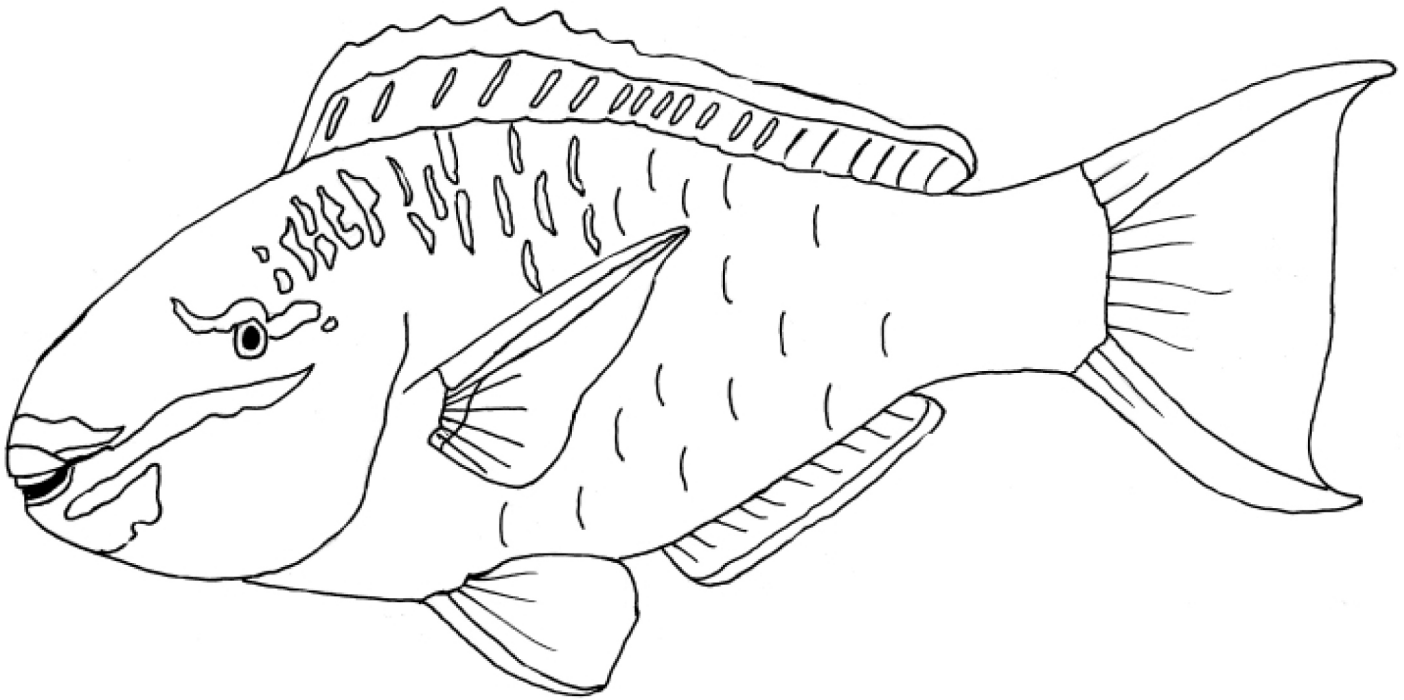
Nassau Grouper

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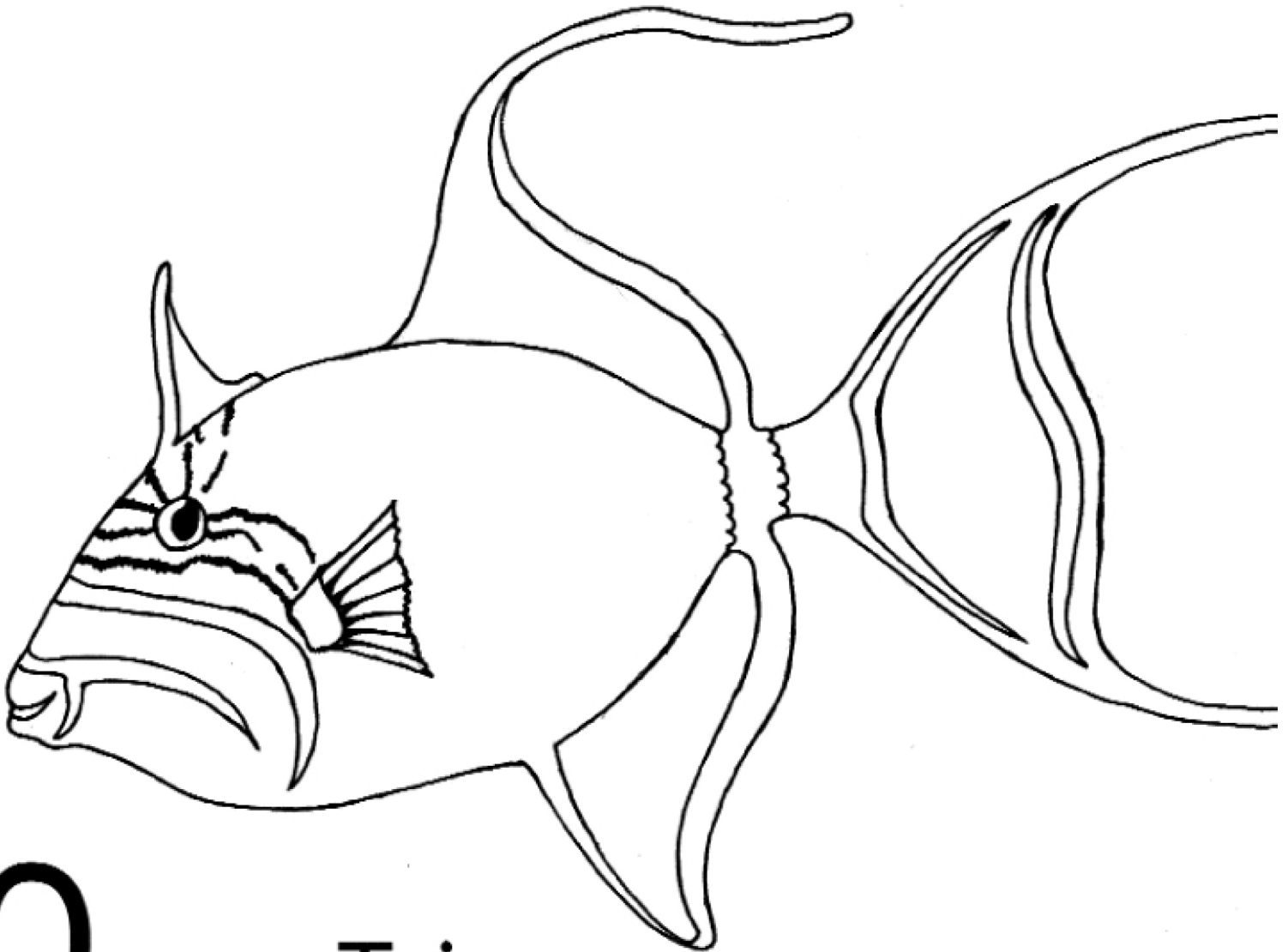
Octopus

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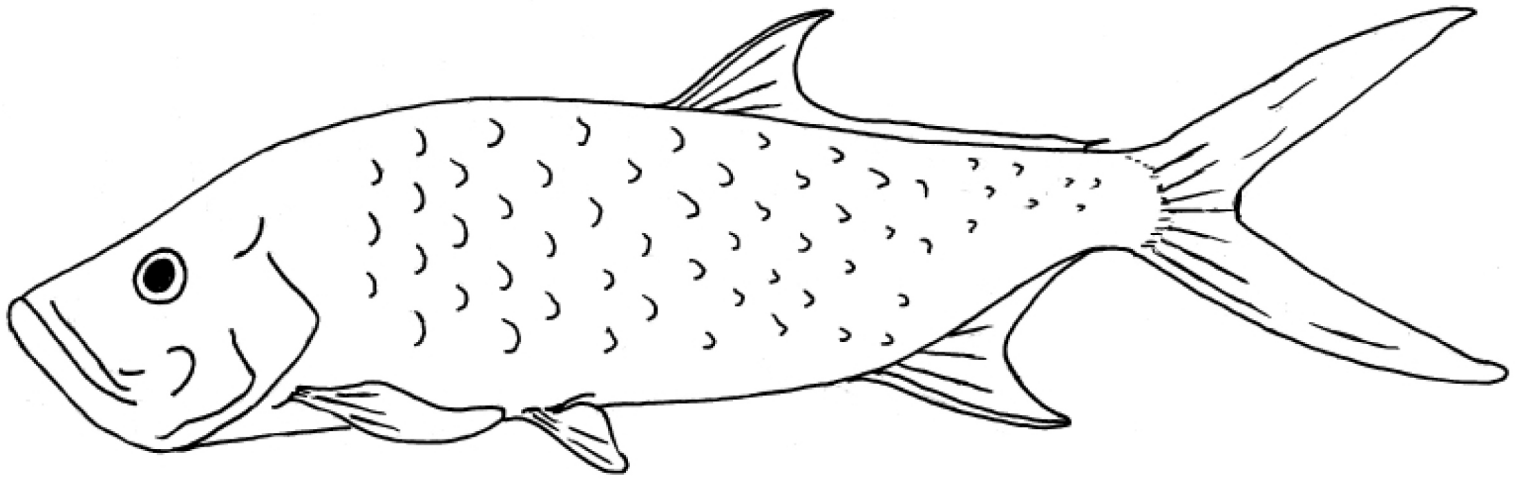
Queen Parrot Fish

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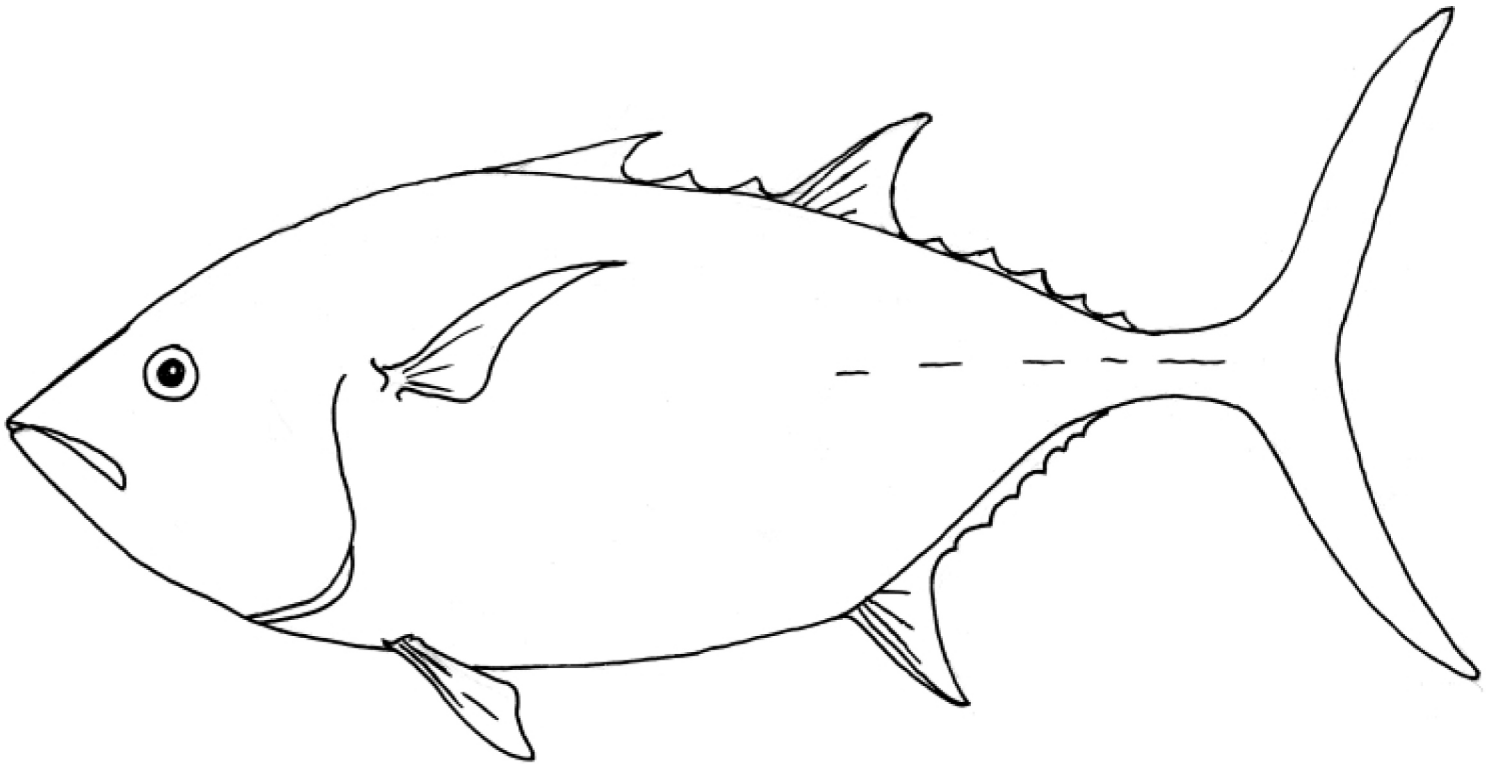
Queen Trigger

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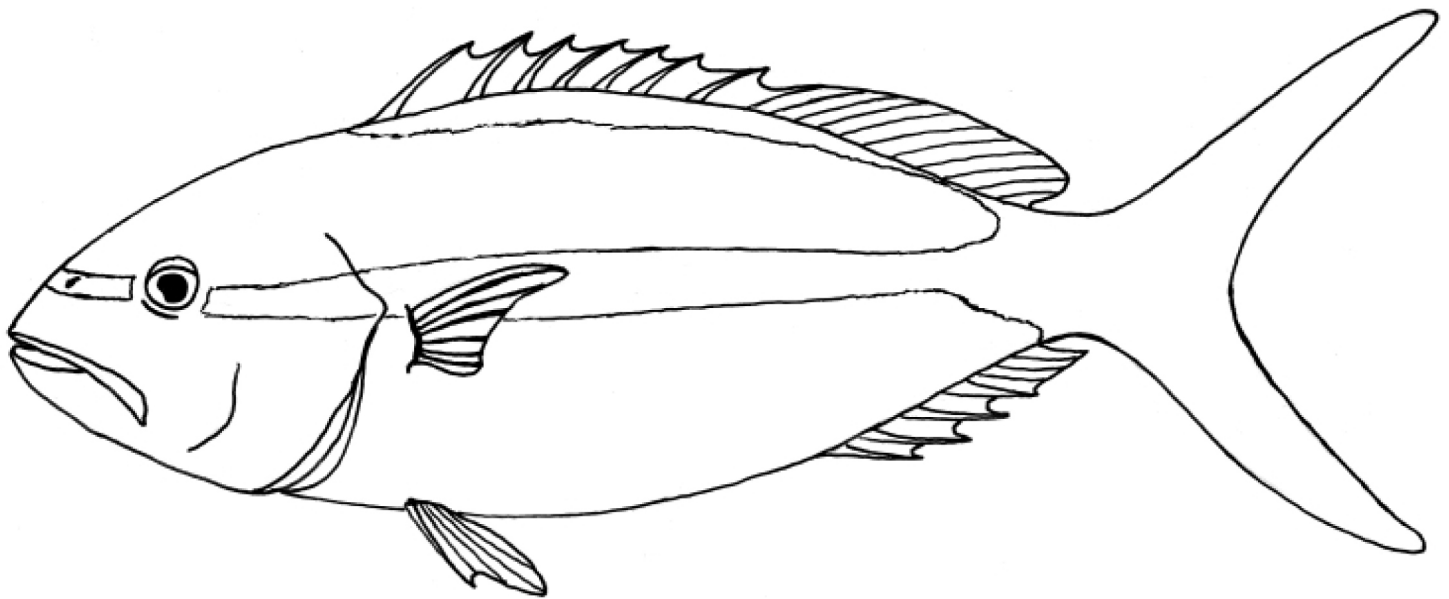


Tarpon

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Yellowfin Tuna



Yellow Tail Snapper