

SAN DIEGO OCEANS FOUNDATION

REEF-Selected Species (Southern California)

Program Partner:



Level 1 (All new REEF members)

Level 2 (Beginning Surveyor)

80% on Most Common Fishes Quiz (20 species)

2 REEF surveys

Level 3 (Advanced Surveyor)

80% on Most Common Fishes Quiz (50 species)

25 REEF surveys

Level 4 (Expert Surveyor)

90% on Most Common Fishes Quiz (60 species)

35 REEF surveys

Level 5 (Expert Surveyor)

95% on Most Common Fishes Quiz (100 species)

50 REEF surveys

REEF-Selected Fish Species (Southern California)

DAMSELFISH

005 Blacksmith
006 Garibaldi

FLATFISH

021 California Halibut
022 C-O Sole
026 Speckled Sanddab
369 Unidentified Flatfish

GOBY

107 Blackeye Goby
108 Blue-banded Goby
112 Zebra Goby

GREENLING

029 Kelp Greenling
030 Lingcod
032 Painted Greenling

KELPFISH / BLENNY

232 Crevice Kelpfish
010 Giant Kelpfish
011 Island Kelpfish
328 Spotted Kelpfish
333 Striped Kelpfish
* 016 Sarcastic Fringehead

ROCKFISH

045 Black Rockfish
046 Black & Yellow Rockfish
044 Blue Rockfish
047 Bocaccio
048 Brown Rockfish
051 China Rockfish
052 Copper Rockfish
053 Gopher Rockfish
054 Grass Rockfish
055 Kelp Rockfish
056 Olive Rockfish
062 Treefish
063 Vermilion Rockfish
353 Juvenile (YOY) Rockfish

- Unidentified

RONQUIL

379 Bluebanded Ronquil
111 Stripefin Ronquil

SCULPIN

069 Cabezon
071 Coralline Sculpin
076 Red Irish Lord
304 Scalyhead Sculpin
079 Snubnose Sculpin
081 Unidentified Sculpin

SEA BASS

001 Barred Sand Bass
003 Kelp Bass

SEA CHUB

035 Halfmoon
036 Opaleye

SHARK

086 Horn Shark
087 Leopard Shark

SILVERSIDE

097 Jacksmelt
337 Topsmelt

SURFPERCH

114 Black Surfperch
116 Kelp Surfperch
117 Pile Perch
118 Rainbow Seaperch
120 Rubberlip Seaperch
122 Shiner Surfperch
123 Striped Seaperch
124 Walleye Surfperch
125 White Surfperch

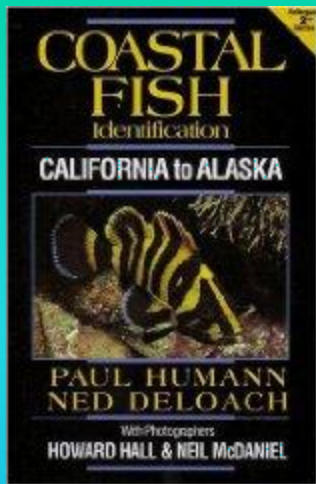
WRASSE

127 California Sheephead
129 Rock Wrasse
128 Señorita

OTHER

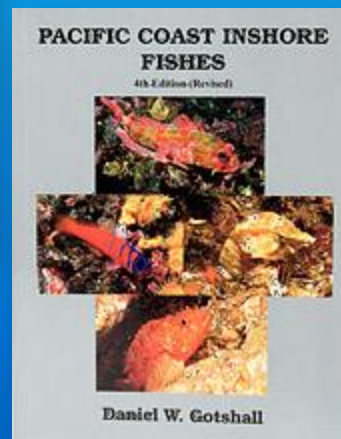
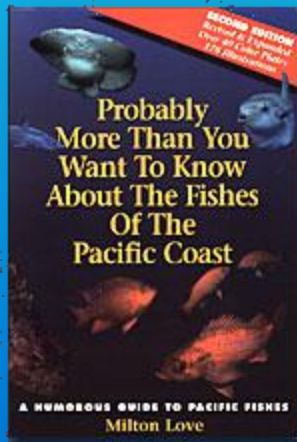
082 Bat Ray
070 California Scorpionfish
096 Jack Mackerel
* 092 Shovelnose Guitarfish
099 Ocean Whitefish
130 Unidentified Pipefish
285 Pygmy Poacher
039 Sargo
138 Tubesnout
* 007 California Moray

* Not on original species list



Additional References

- Coastal Fish Identification, California to Alaska
- Paul Humann
- Probably More Than You Want to Know About the Fishes of the Pacific Coast
- Milton Love
- Pacific Inshore Fishes
- Daniel Gotshall



Quick Review



Scorpionfish,
California
Scorpionfish



Sea Chub,
Opaleye



Wrasse,
Señorita



Surfperch,
Rainbow
Surfperch



Flatfish,
CA Halibut



Rockfish,
Black and
Yellow
Rockfish



Rockfish,
Kelp
Rockfish



Rockfish,
Gopher
Rockfish



Surfperch,
Black
Surfperch



Sculpin,
Unidentified
Sculpin



Kelpfish /
Blenny,
Island
Kelpfish



Moray,
California
Moray Eel



Greenling,
Lingcod



Wrasse,
(Male) CA
Sheephead



Grunt,
Sargo



Surfperch,
White
Surfperch



Surfperch,
Rubberlip
Surfperch



Eagle Ray,
Bat Ray



Rockfish,
Copper
Rockfish



Ronquil,
Stripefin
Ronquil



Wrasse,
(Male)
Rock
Wrasse



Kelpfish /
Blenny,
Spotted
Kelpfish



Shark,
Leopard
Shark



Rockfish,
Black
Rockfish



Guitarfish,
Shovelnose
Guitarfish



Rockfish,
Treefish



Surfperch,
Kelp
Surfperch



Sculpin,
Coralline
Sculpin



Wrasse,
(Juv) CA
Sheephead



Kelpfish /
Blenny,
Sarcastic
Fringehead



Goby,
Zebra goby



Tubesnout,
Tubesnout



Wrasse,
(Female)
Rock
Wrasse



Wrasse,
(Female)
CA
Sheephead



Rockfish,
YOY



Jack,
Jack
Mackerel



Kelpfish /
Blenny,
Crevice
Kelpfish



Goby,
Blackeye
Goby



Sculpin,
Scalyhead
Sculpin



Tilefish,
Ocean
Whitefish



Rockfish,
Blue
Rockfish



Kelpfish /
Blenny,
Striped
Kelpfish



Surfperch,
Striped
Surfperch



Sculpin,
Red Irish
Lord



Goby,
Blue -
Banded
Goby



Ronquil,
Blue -
Banded
Ronquil



Rockfish,
Grass
Rockfish



Rockfish,
Vermilion
Rockfish



Sea Bass,
Kelp Bass



Sea Bass,
Barred
Sandbass



Sea Chub,
Halfmoon



Damsel fish,
Blacksmith



Flatfish,
C-O Sole



Damsel fish,
Garibaldi



Sculpin,
Snubnose
Sculpin



Shark,
Horn Shark



Rockfish,
China
Rockfish



Sculpin,
Cabezon



Rockfish,
Bocaccio



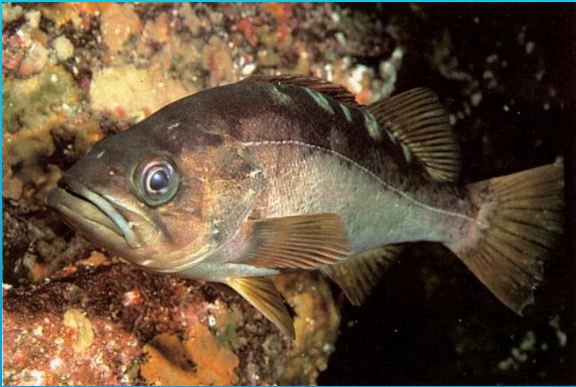
Greenling,
Kelp
Greenling



Surfperch,
Walleye
Surfperch



Flatfish,
Unidentified
Flatfish



Rockfish,
Olive
Rockfish



Surfperch,
Shiner
Surfperch



Surfperch,
Pile Perch



Silverside,
Jacksmelt



Pipefish,
Unidentified
Pipefish



Greenling,
Painted
Greenling



Rockfish,
Brown
Rockfish



Flatfish,
Speckled
Sanddab



Poacher,
Pygmy
Poacher



Kelpfish /
Blenny,
Giant
Kelpfish

Questions?

Test time!

1



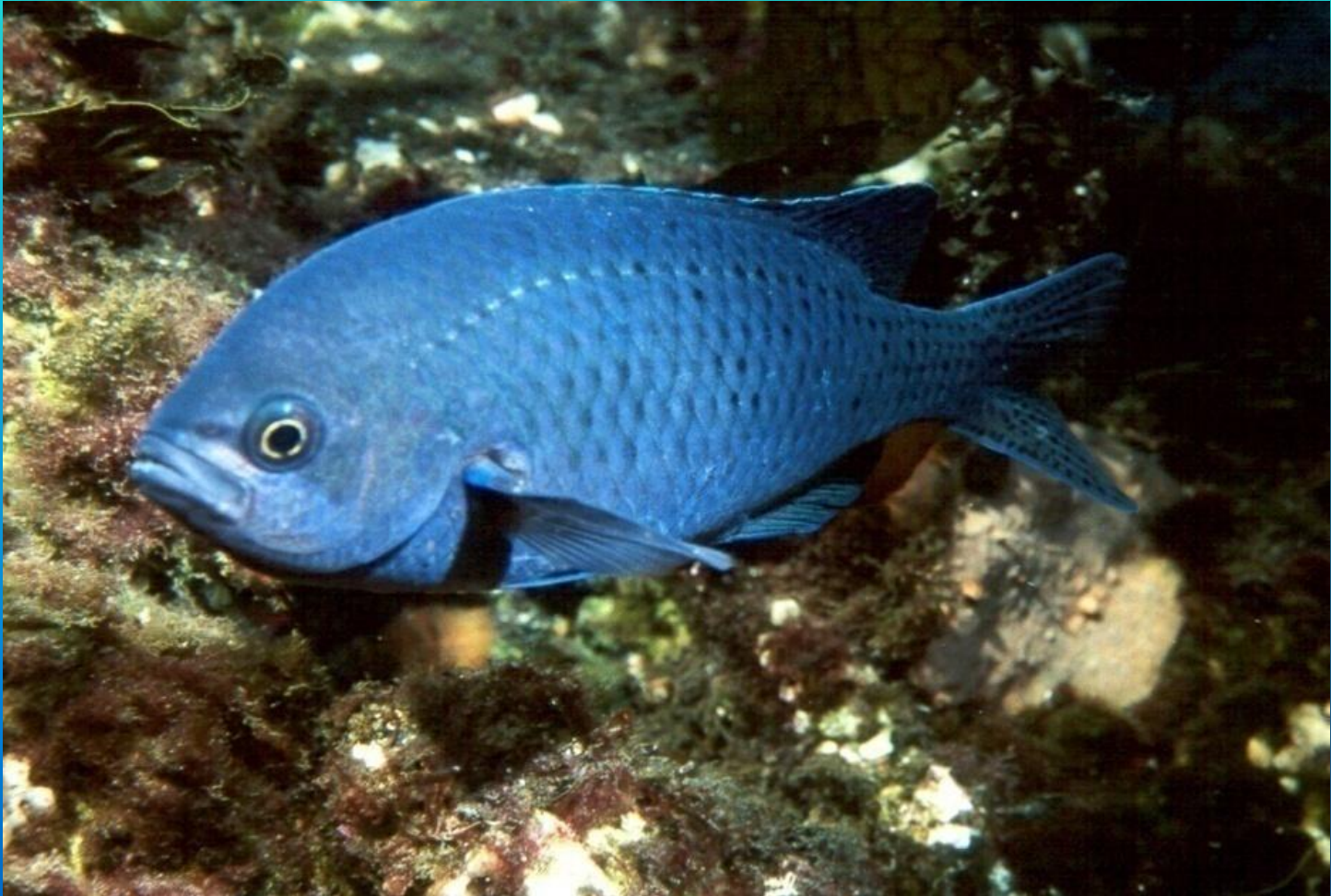
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4



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6



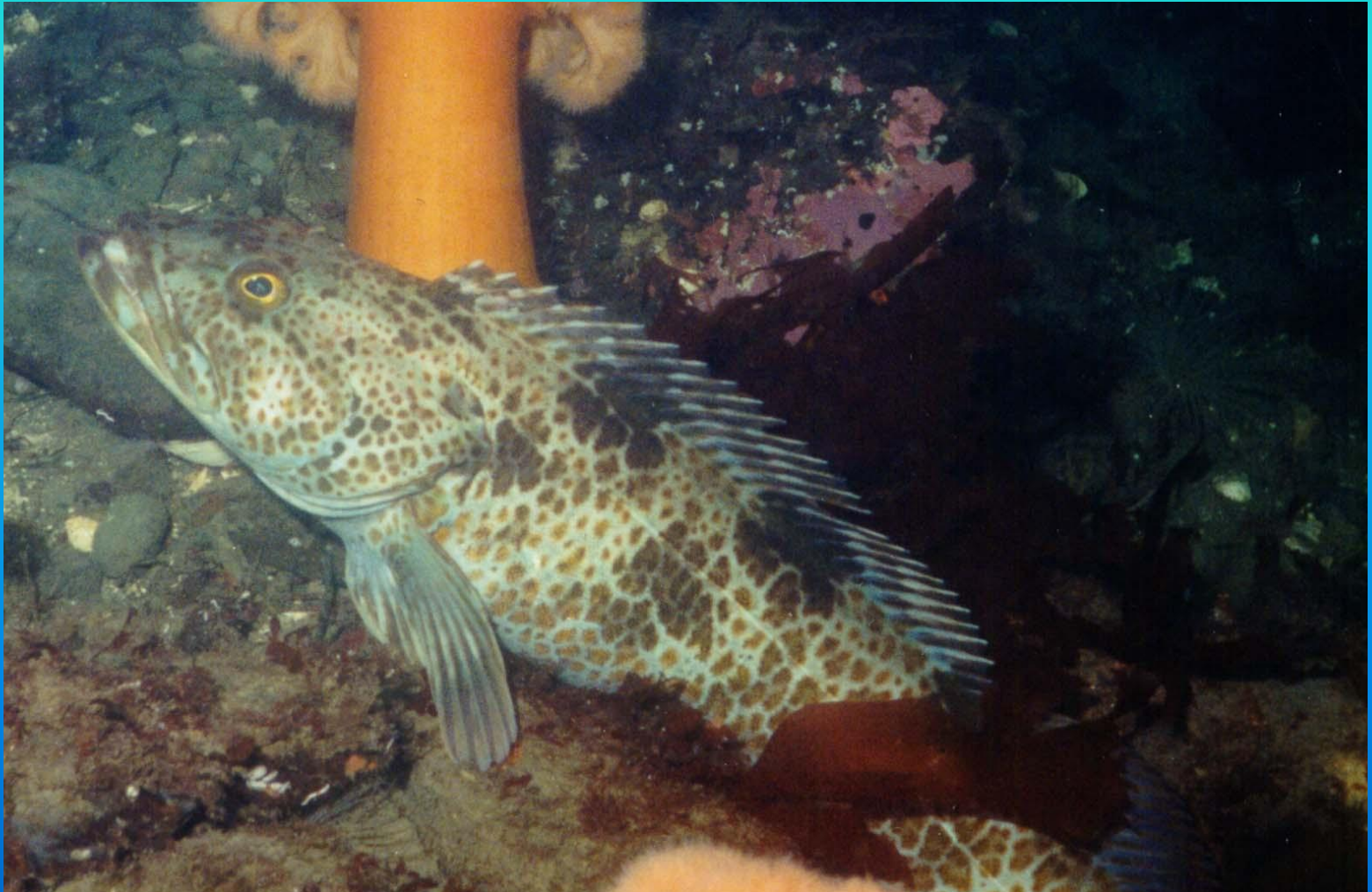
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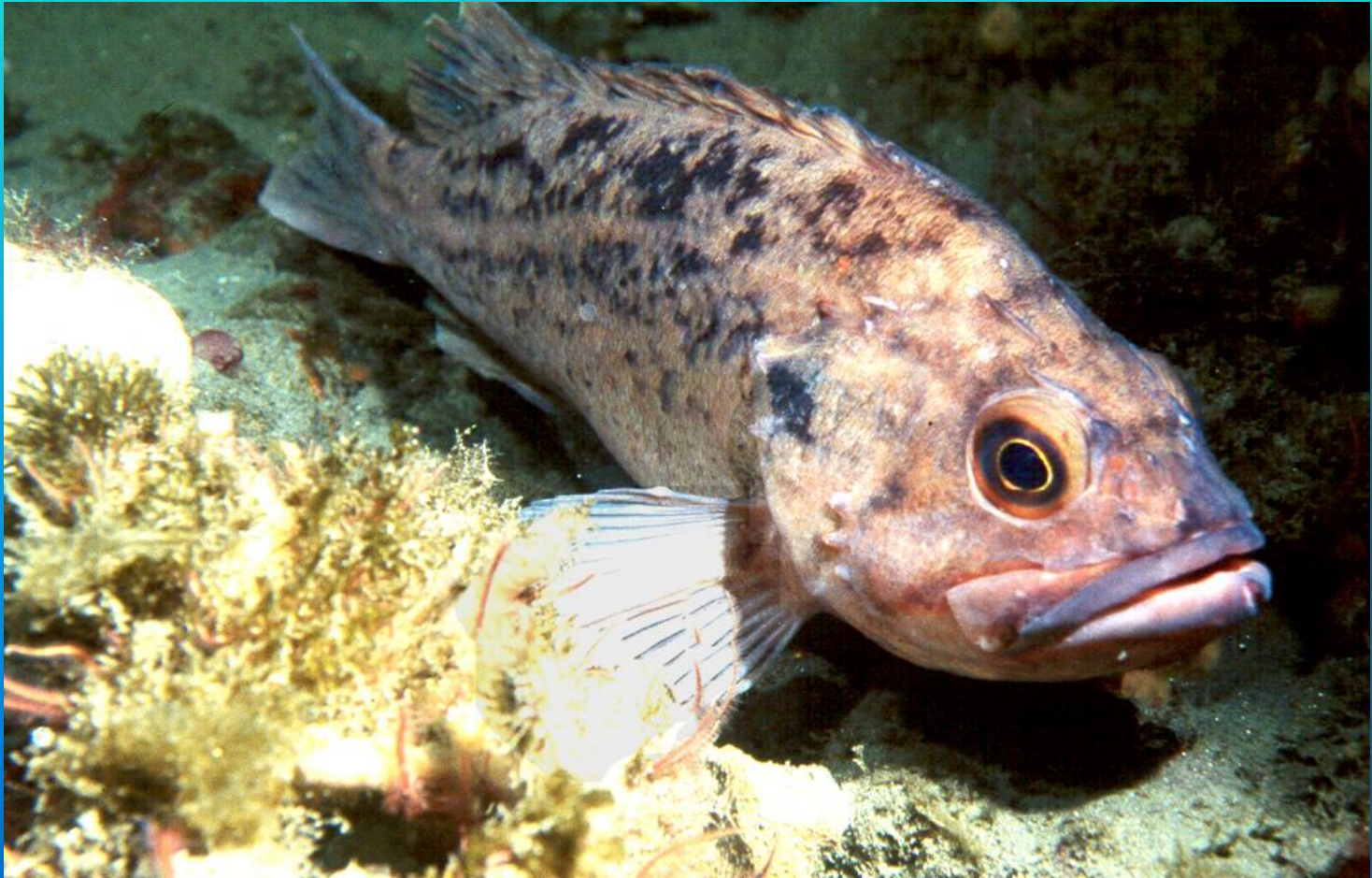
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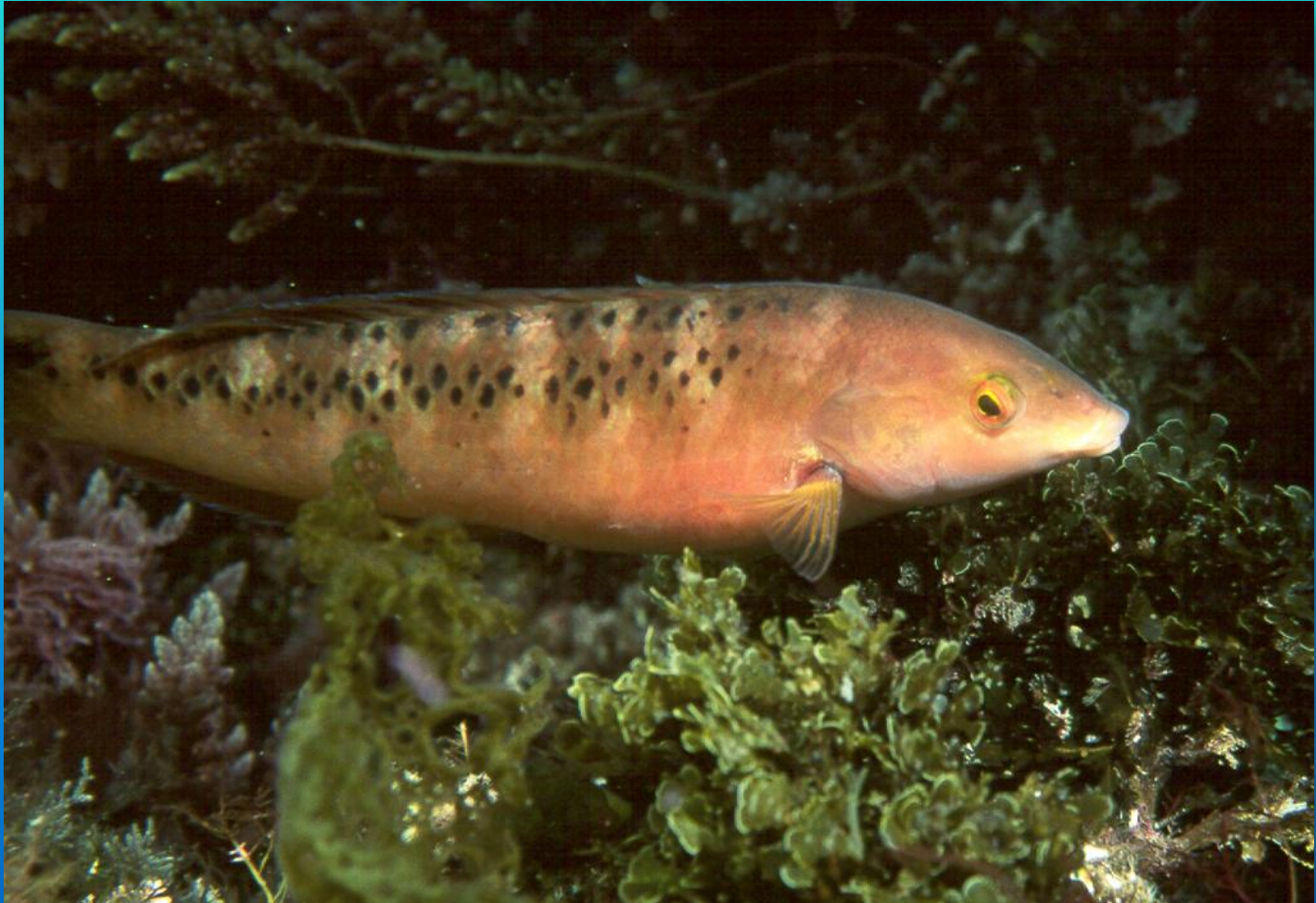
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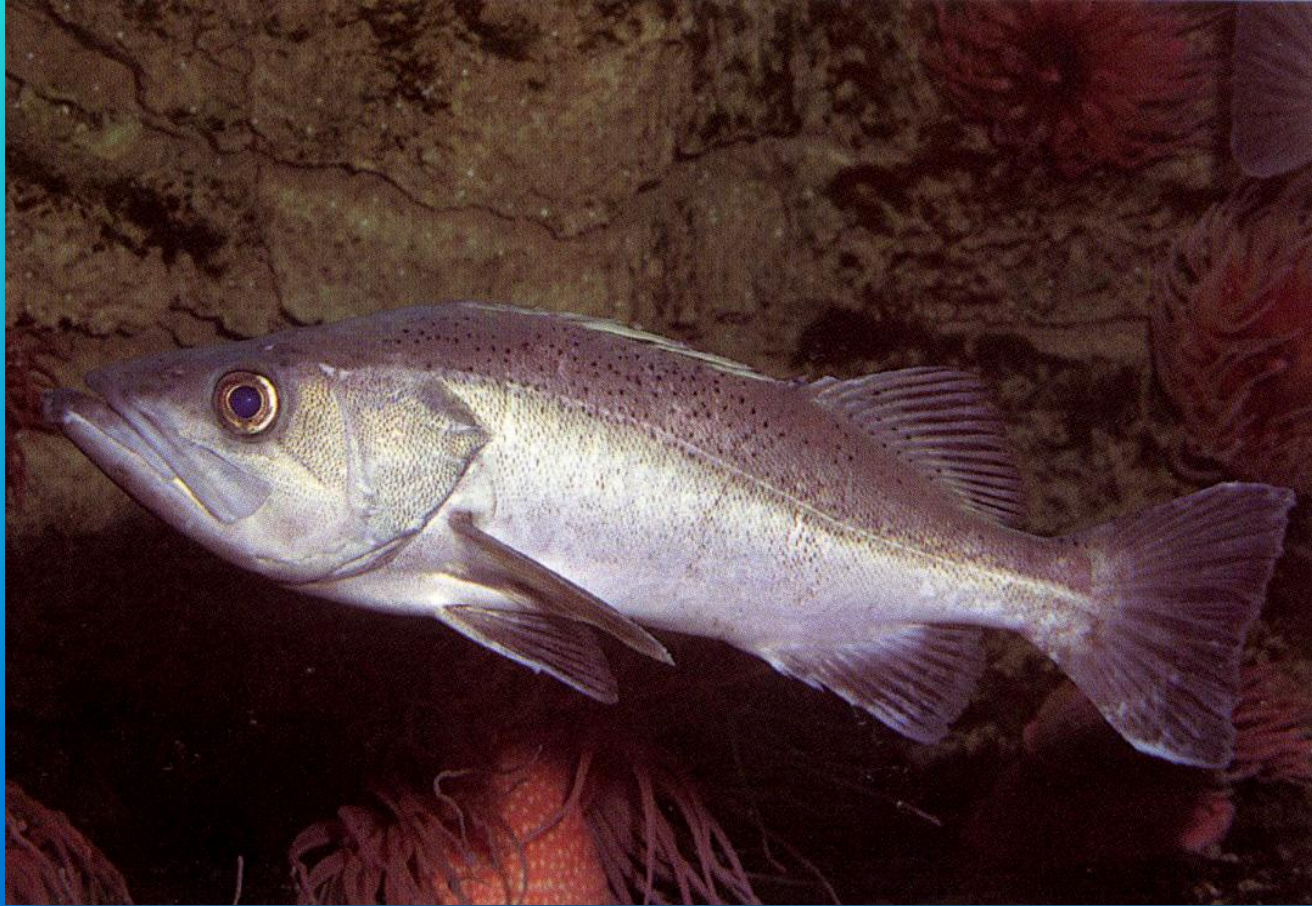
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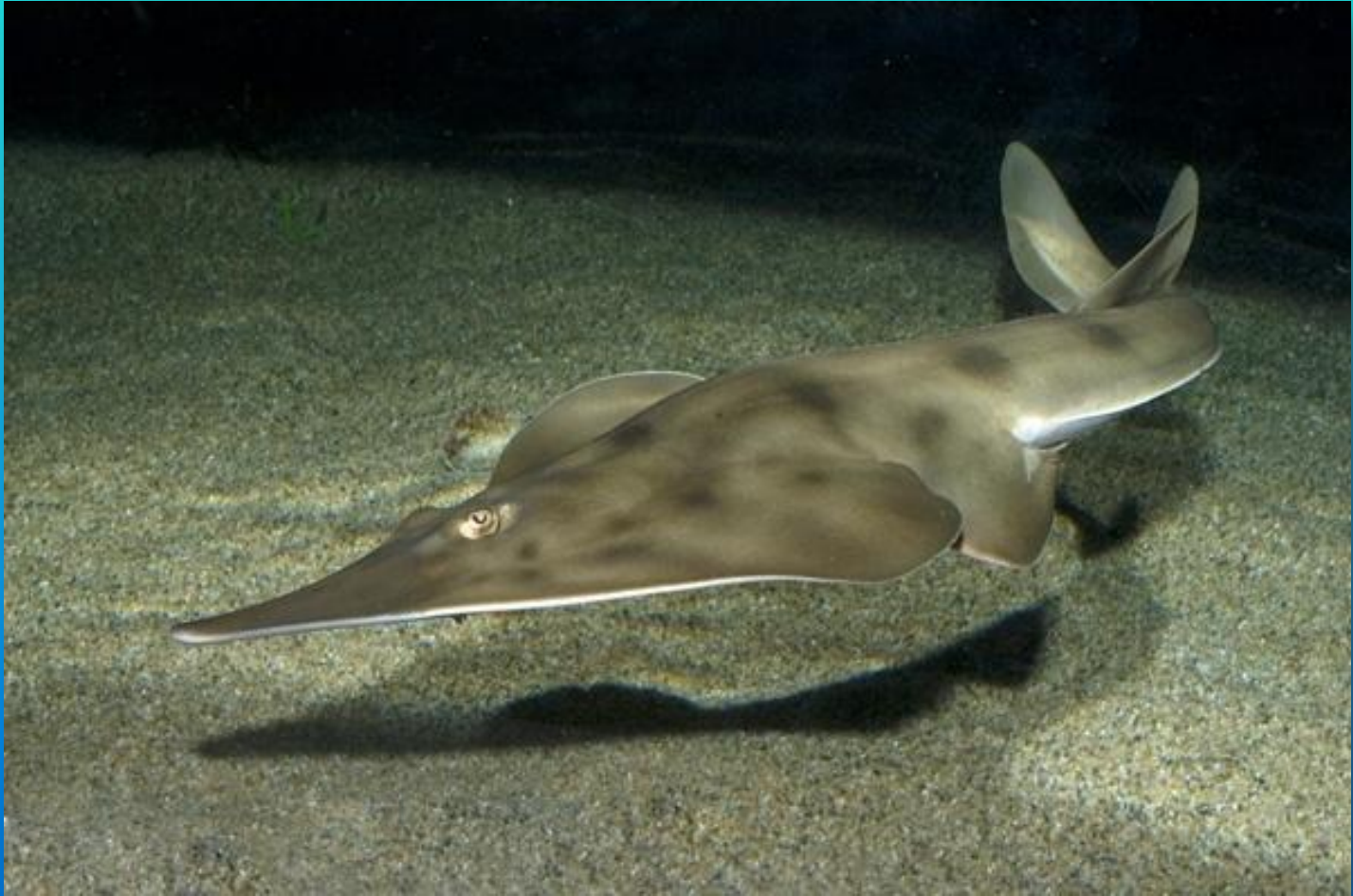
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29



30



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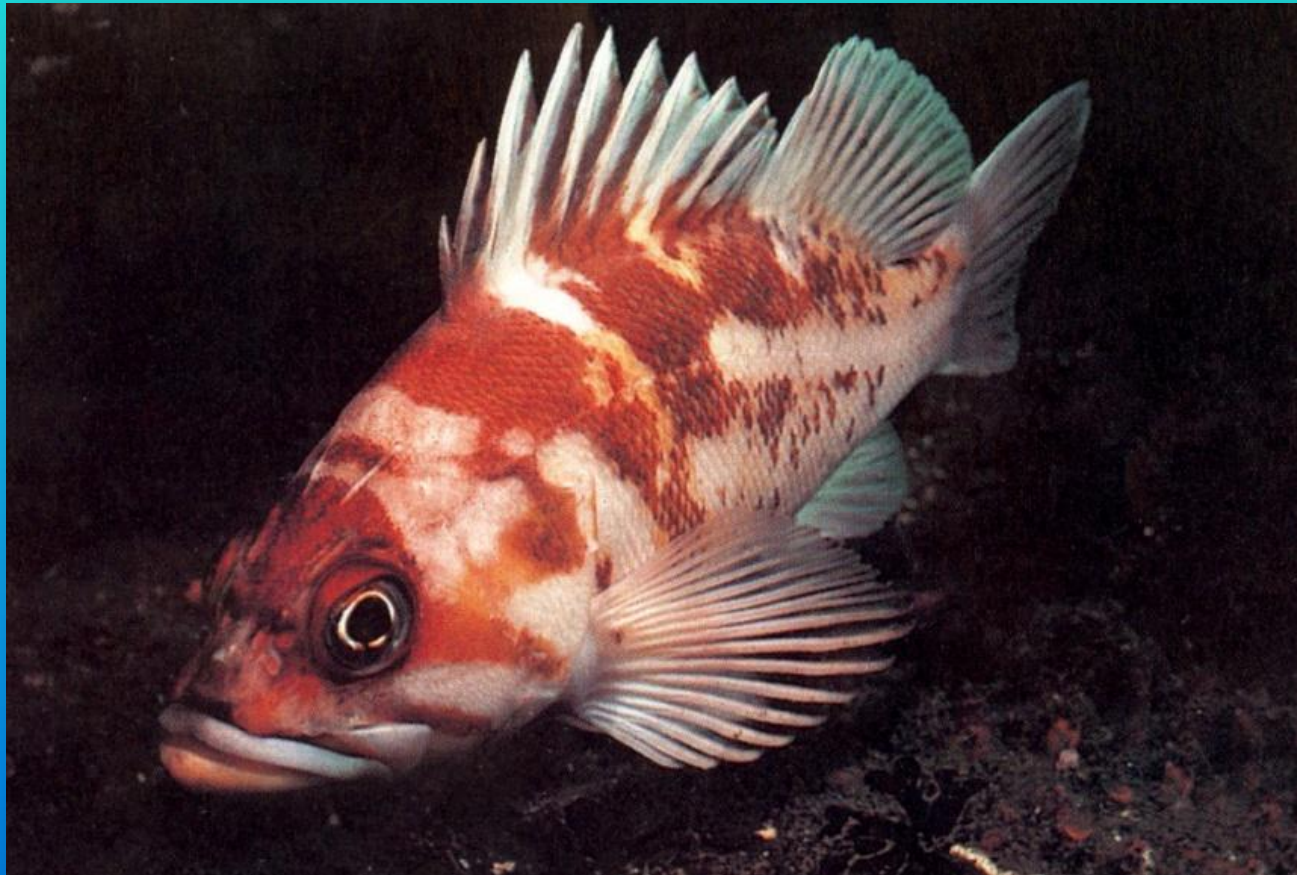
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33



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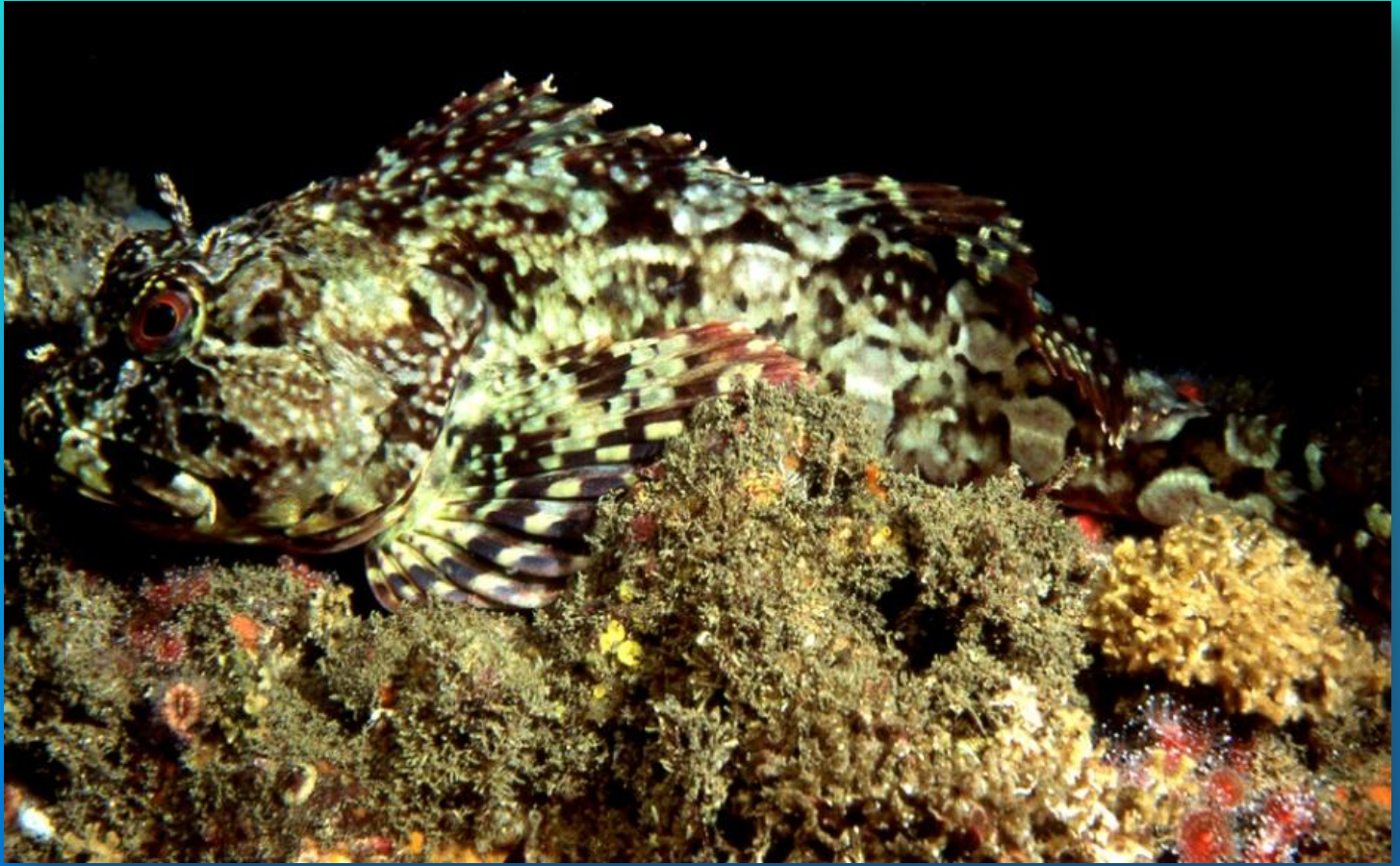
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36



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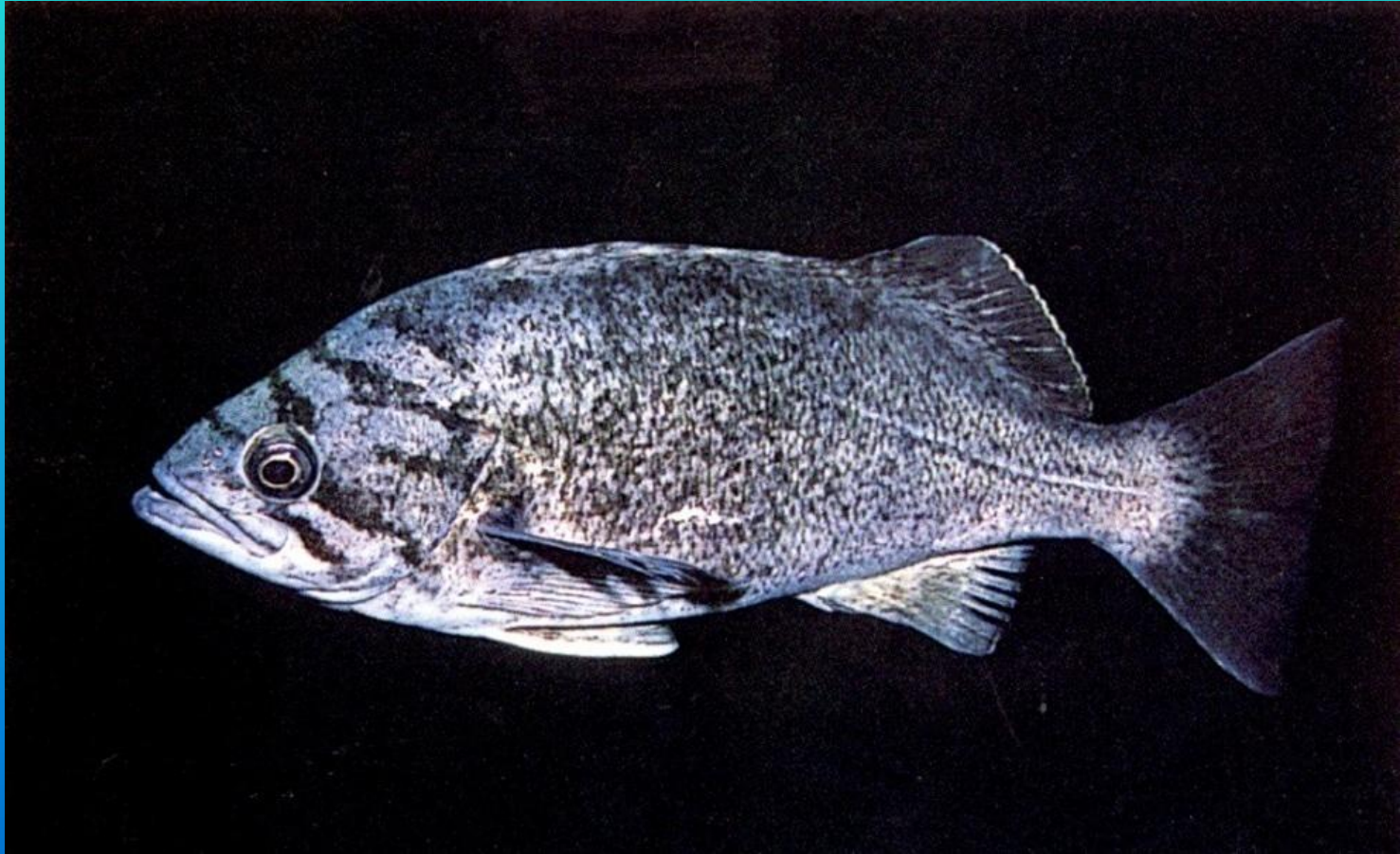
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40



41



42



43



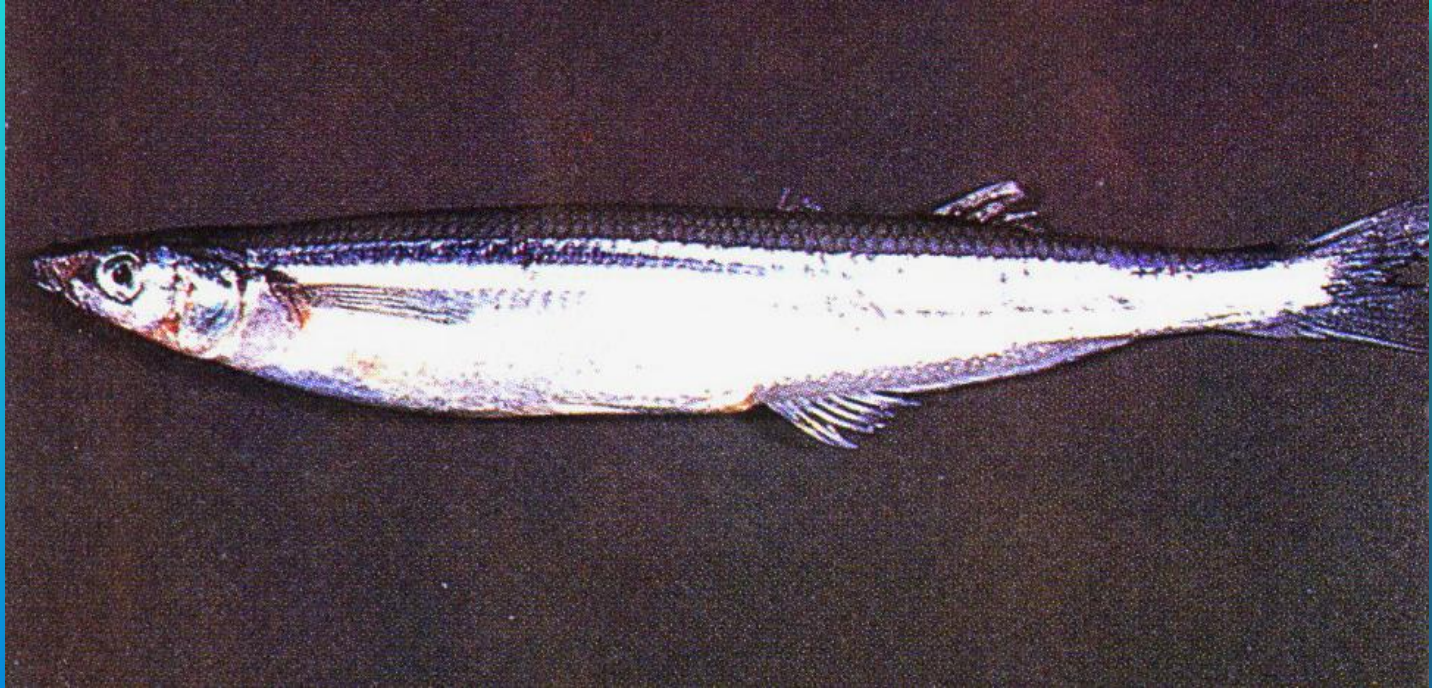
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45



46



47



48



49



50



51



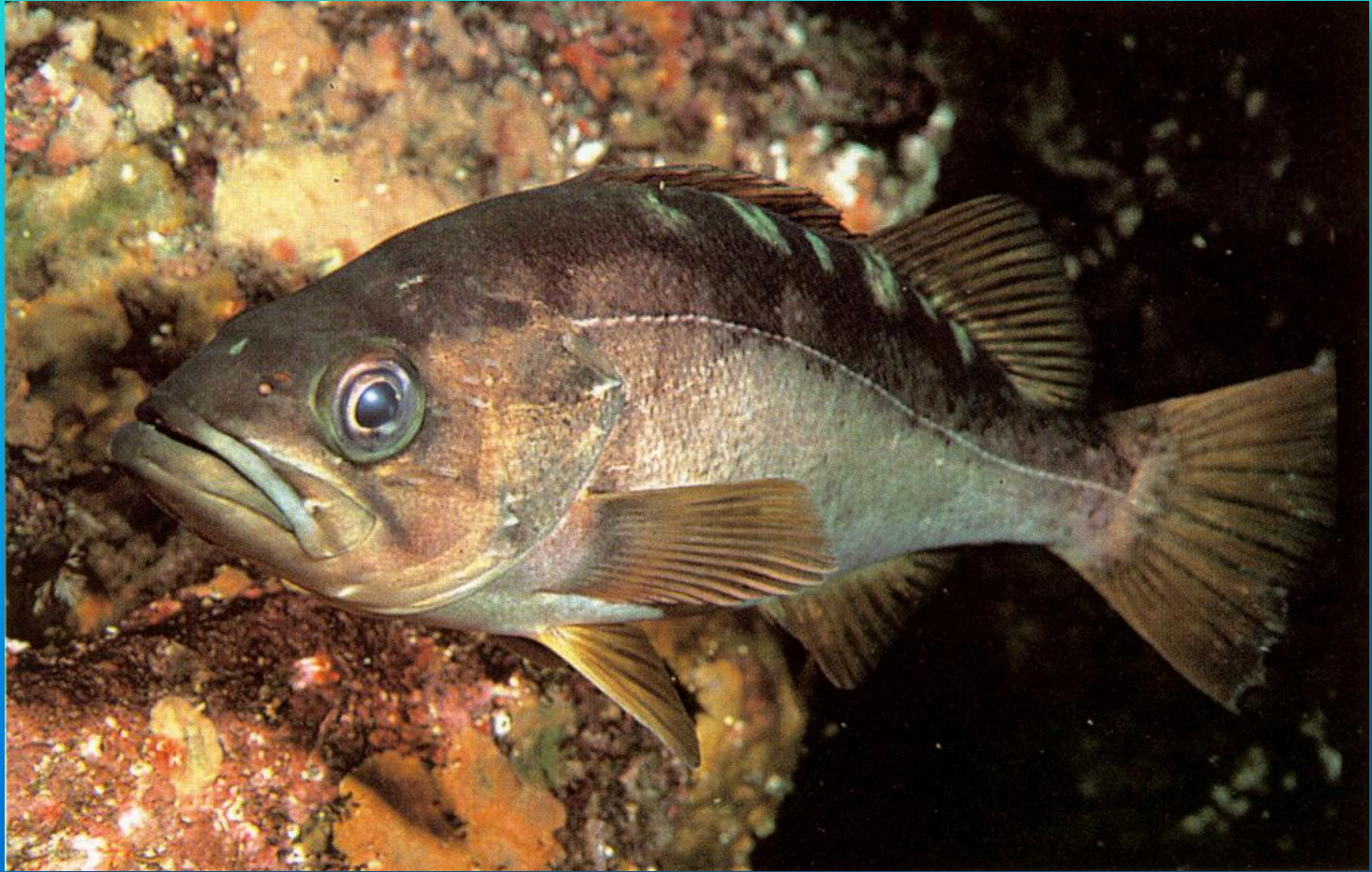
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53



54



55



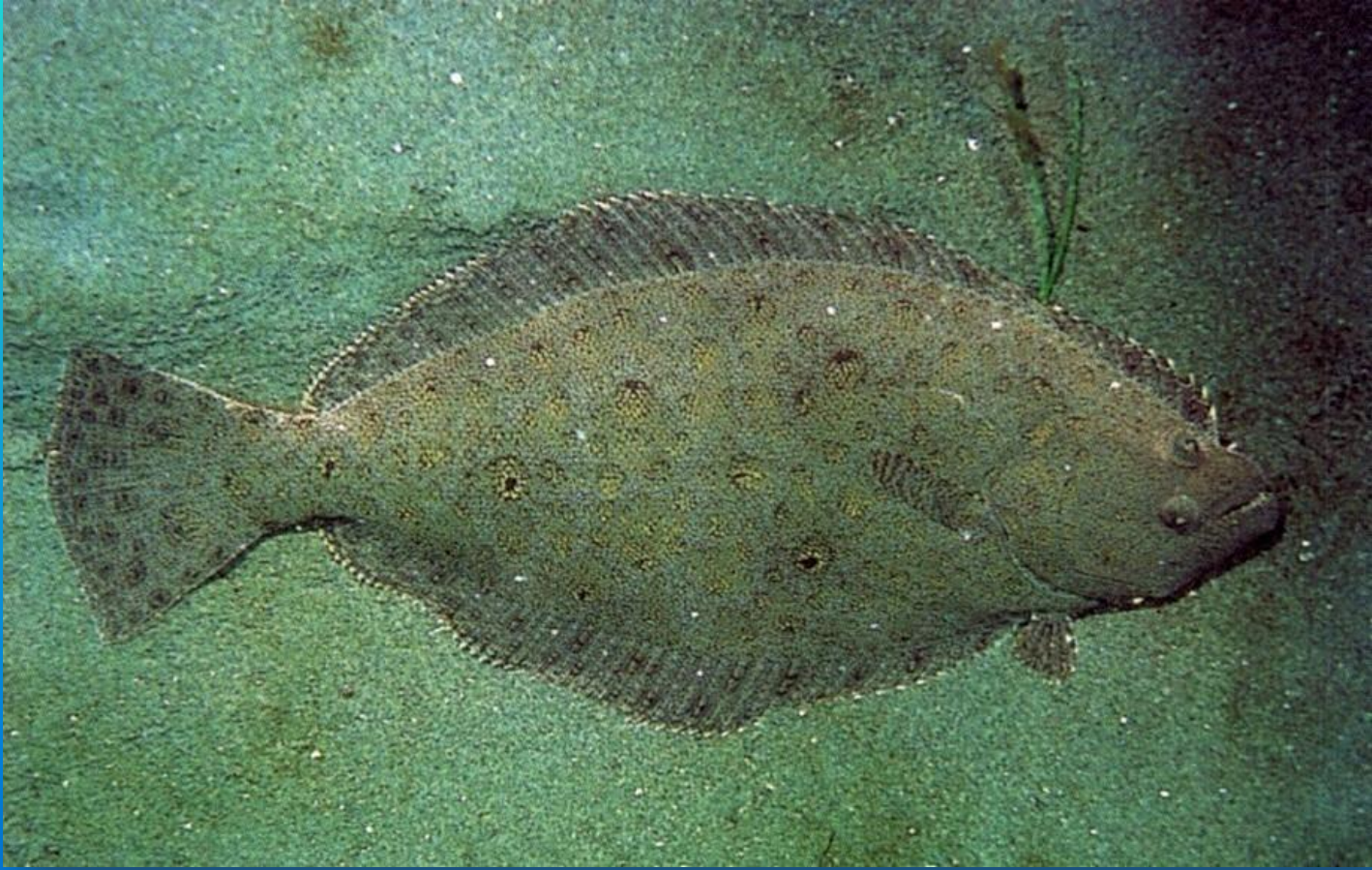
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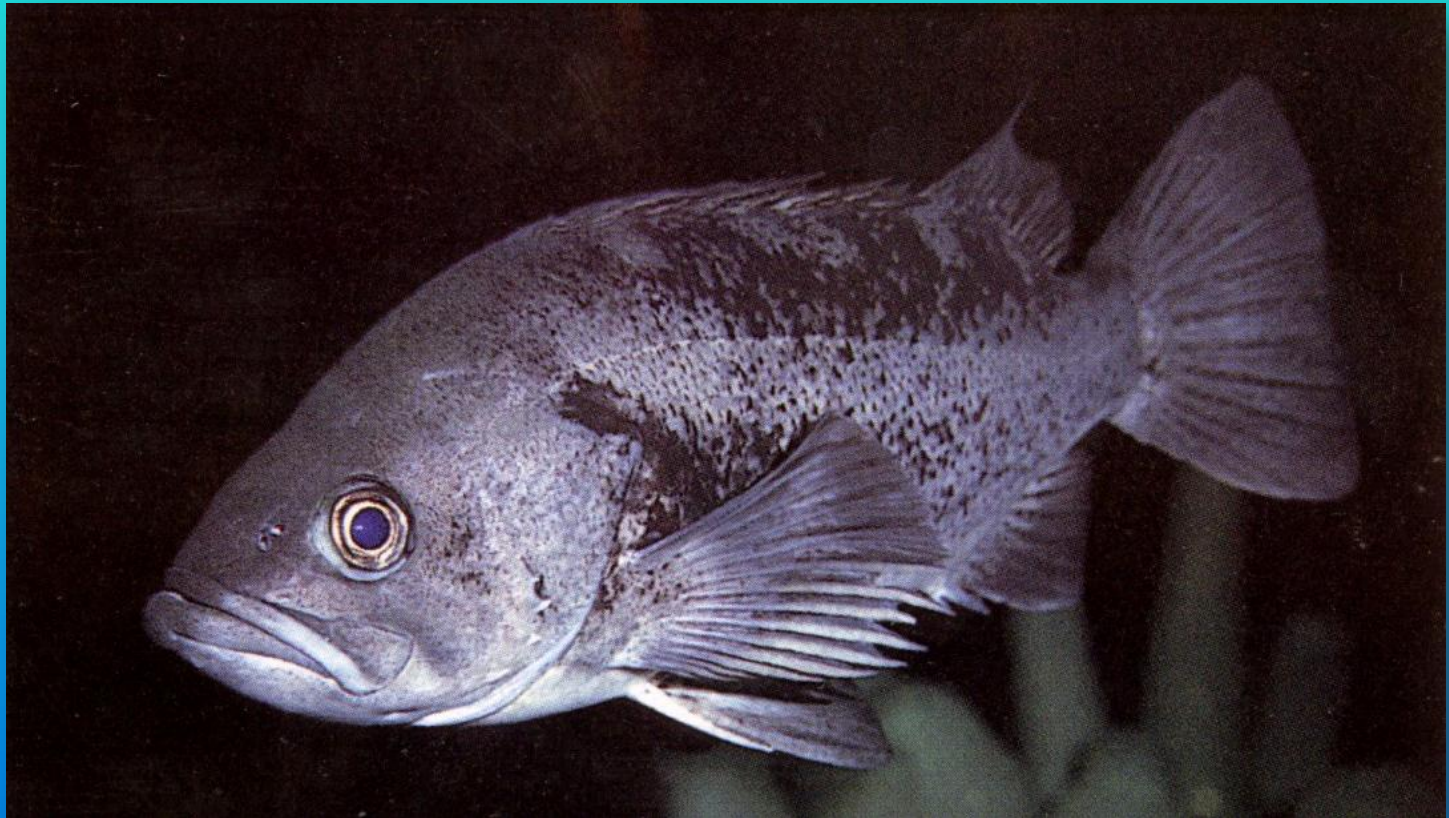
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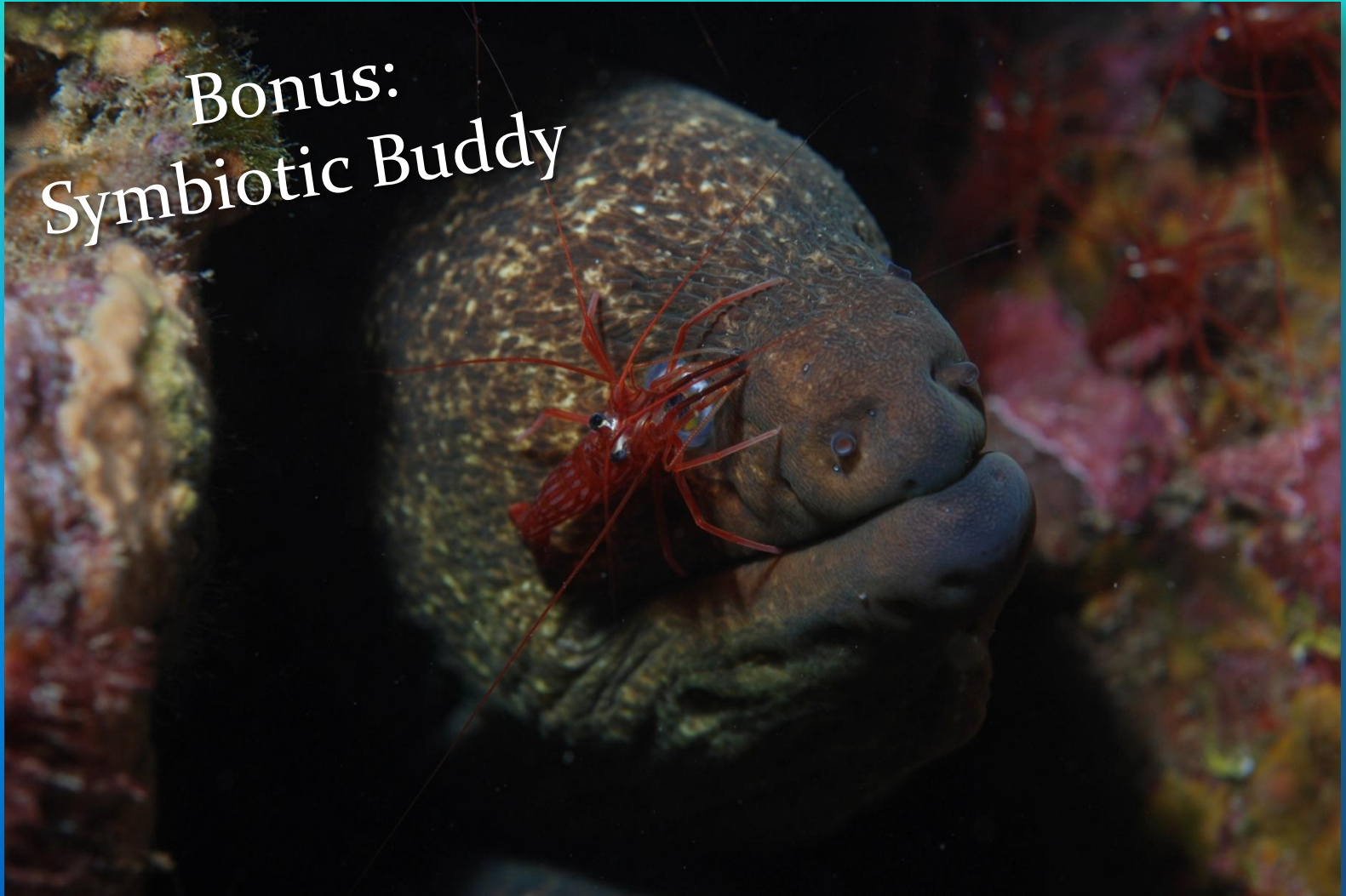


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60

Bonus:
Symbiotic Buddy



Time to Grade your Test!

- Please trade papers with your neighbor -

Greenling

1



Painted Greenling
Oxylebius pictus

Flatfish

2



Hornyhead Turbot
Pleuronichthys verticalis

Unidentified Flatfish

Goby

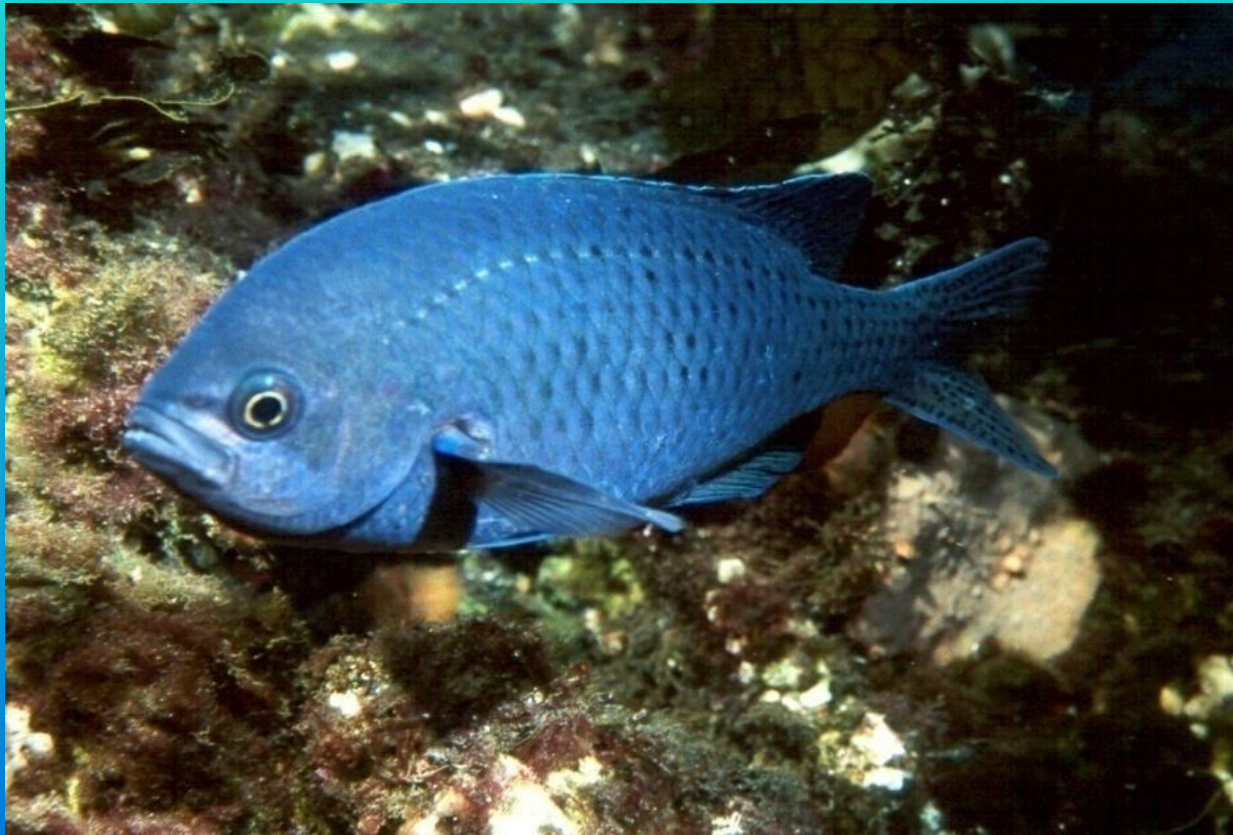
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Blackeye Goby
Coryphopterus nicholsi

Damselfish

4



Blacksmith
Chromis punctipinnis

Sea Bass

5



Kelp Bass
Paralabrax clathratus

Pipefish

6



Bay Pipefish

Syngnathus leptorhynchus

Unidentified Pipefish

Surfperch

7



Rainbow Seaperch
Hypsurus caryi

Sea Chub

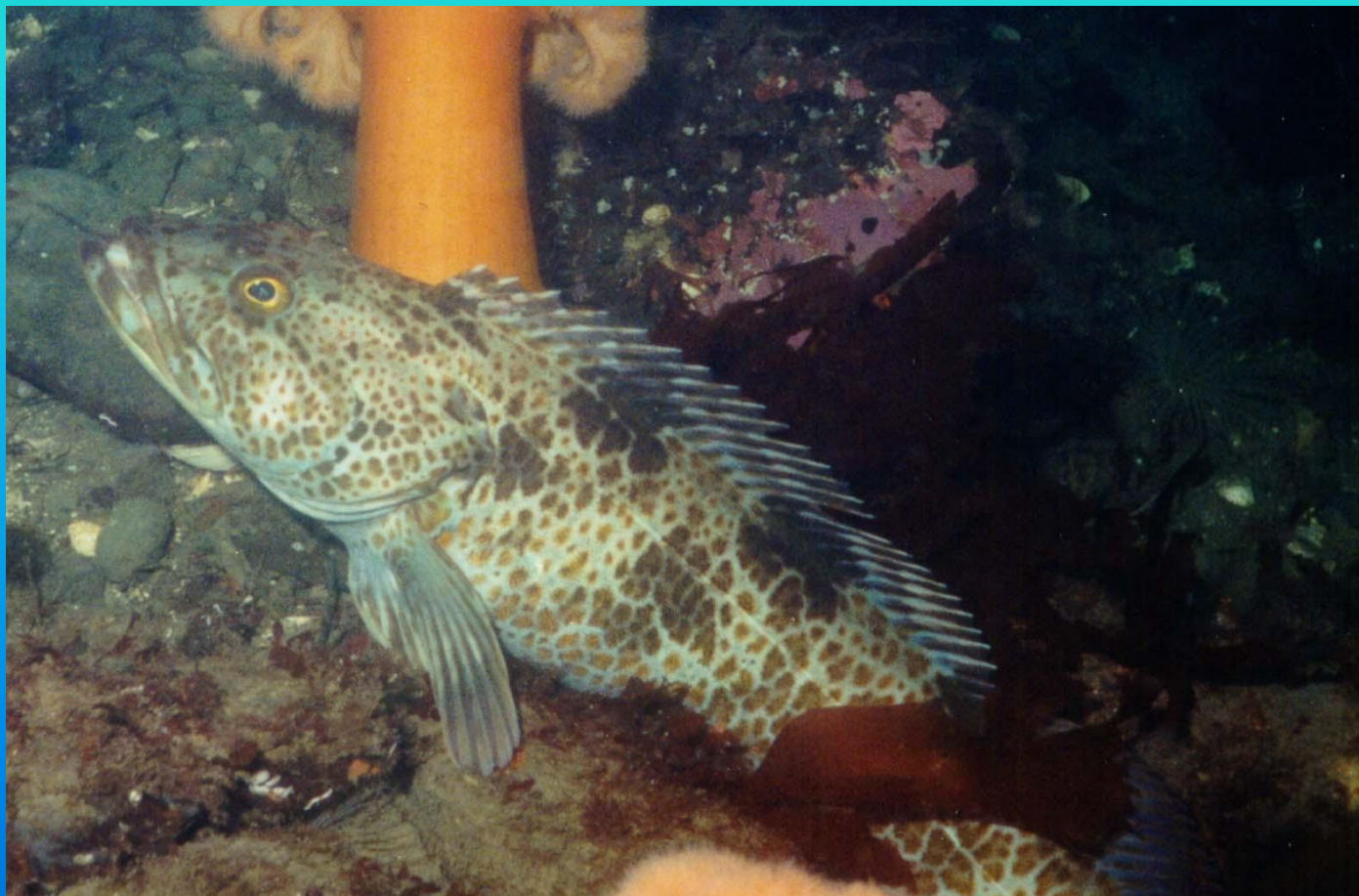
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Opaleye
Girella nigricans

Greenling

9



Lingcod

Ophiodon elongatus

Surfperch

10



Black Surfperch
Embiotoca jacksoni

Wrasse

11



California Sheephead
Semicossyphus pulcher

Damselfish

12



Garibaldi

Hypsypops rubicundus

Grunt

13

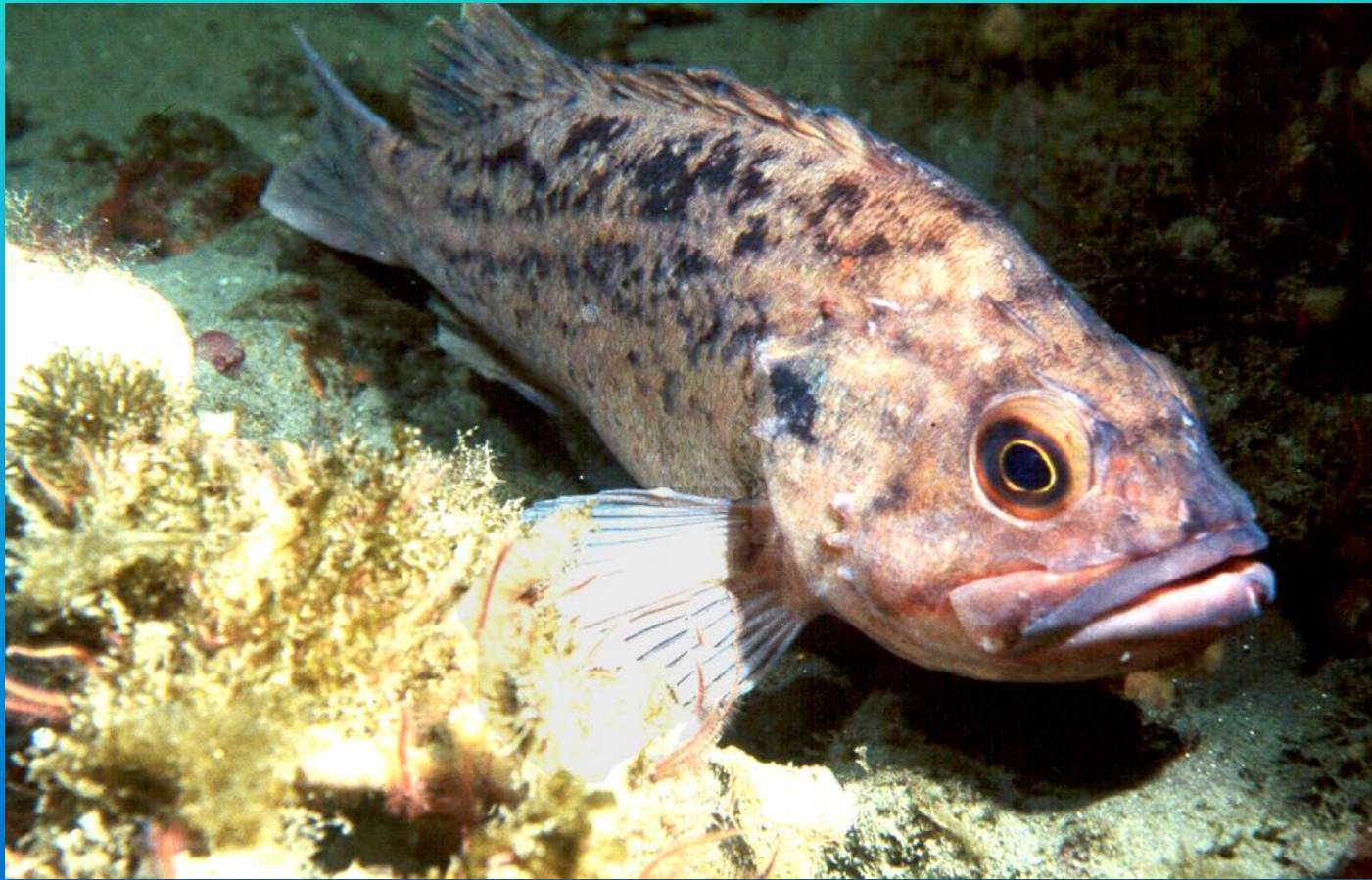


Sargo

Anistotremus davidsoni

Rockfish

14



Brown Rockfish
Sebastes auriculatus

Jack

15



Jack Mackerel
Trachurus symmetricus

Wrasse

16



Rock Wrasse
Halichoeres semicinctus

Flatfish

17



Speckled Sanddab
Citharichthys stigmaeus

Rockfish

18



Vermilion Rockfish

Sebastes miniatus

Sculpin

19



Snubnose
Orthonopias triacis

Sea Bass

20



Barred Sand Bass

Paralabrax nebulifer

Surfperch

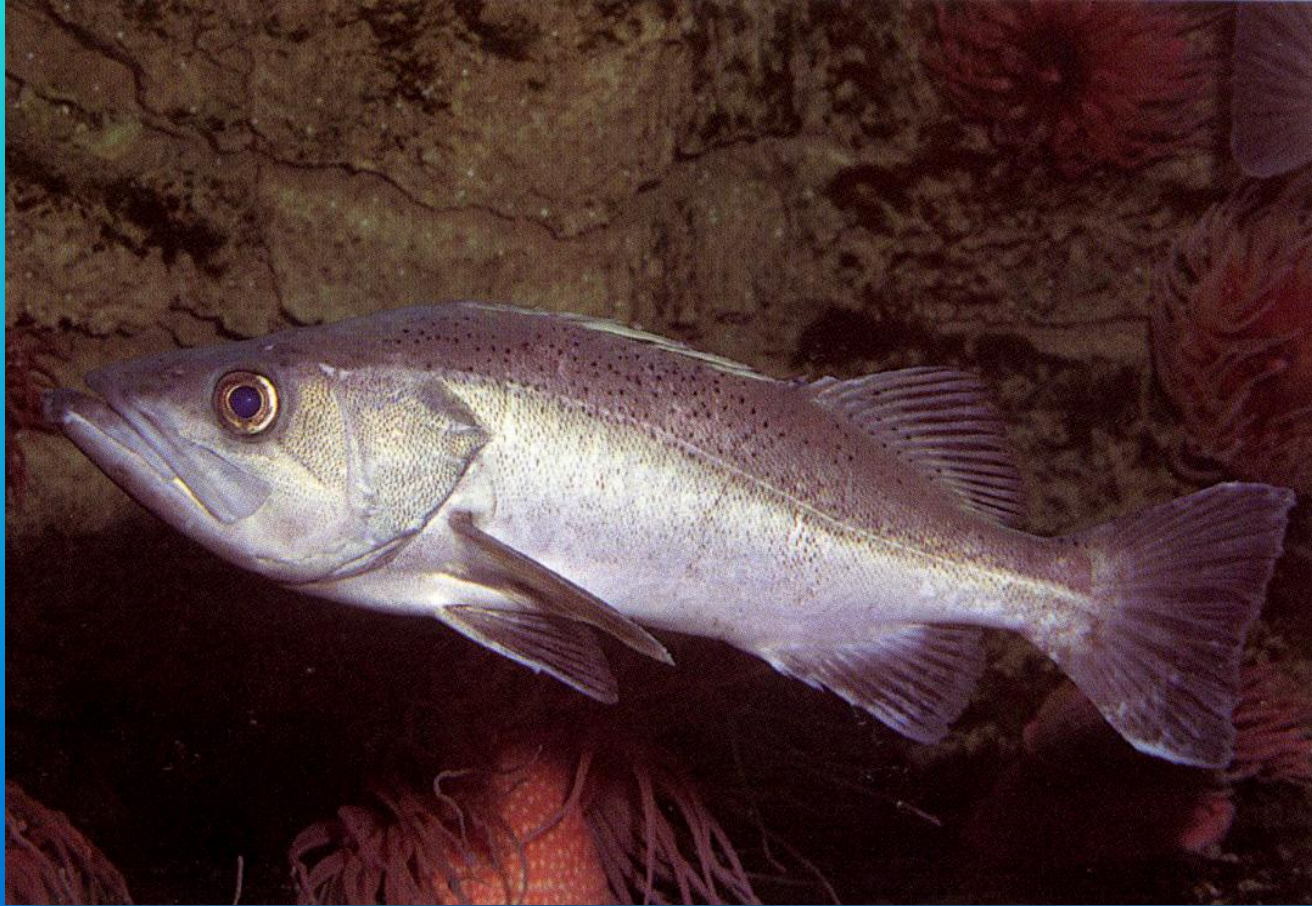
21



Walleye Surfperch
Hyperprosopon argenteum

Rockfish

22



Bocaccio

Sebastes paucispinis

Kelpfish/Blenny 23



Giant Kelpfish
Heterostichus rostratus

Flatfish

24



C-O Sole

Pleuronichthys coenosus

Wrasse

25



Señorita

Oxyjulis californica

Scorpionfish

26



California Scorpionfish
Scorpaena guttata

Surfperch

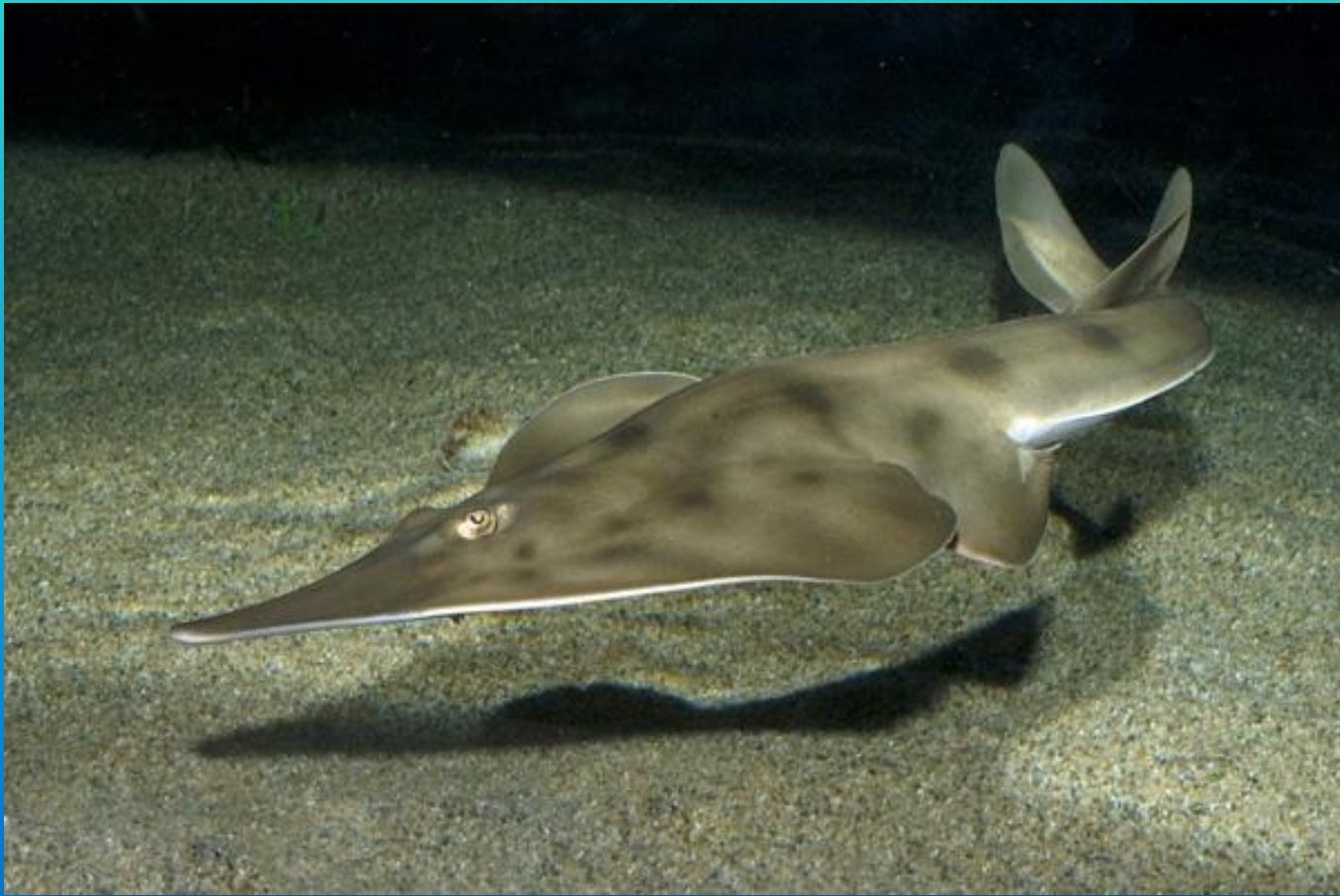
27



Kelp Surfperch
Brachyistius frenatus

Guitarfish

28



Shovelnose guitarfish
Rhinobatos productus

Surfperch

29



Pile Perch
Rhacochilus vacca

Kelpfish/Blenny 30



Sarcastic Fringehead
Neoclinus blanchardi

Rockfish

31



Juvenile (YOY) Rockfish
Any species

Silverside

32



Jacksmelt

Atherinopsis californiensis

Surfperch

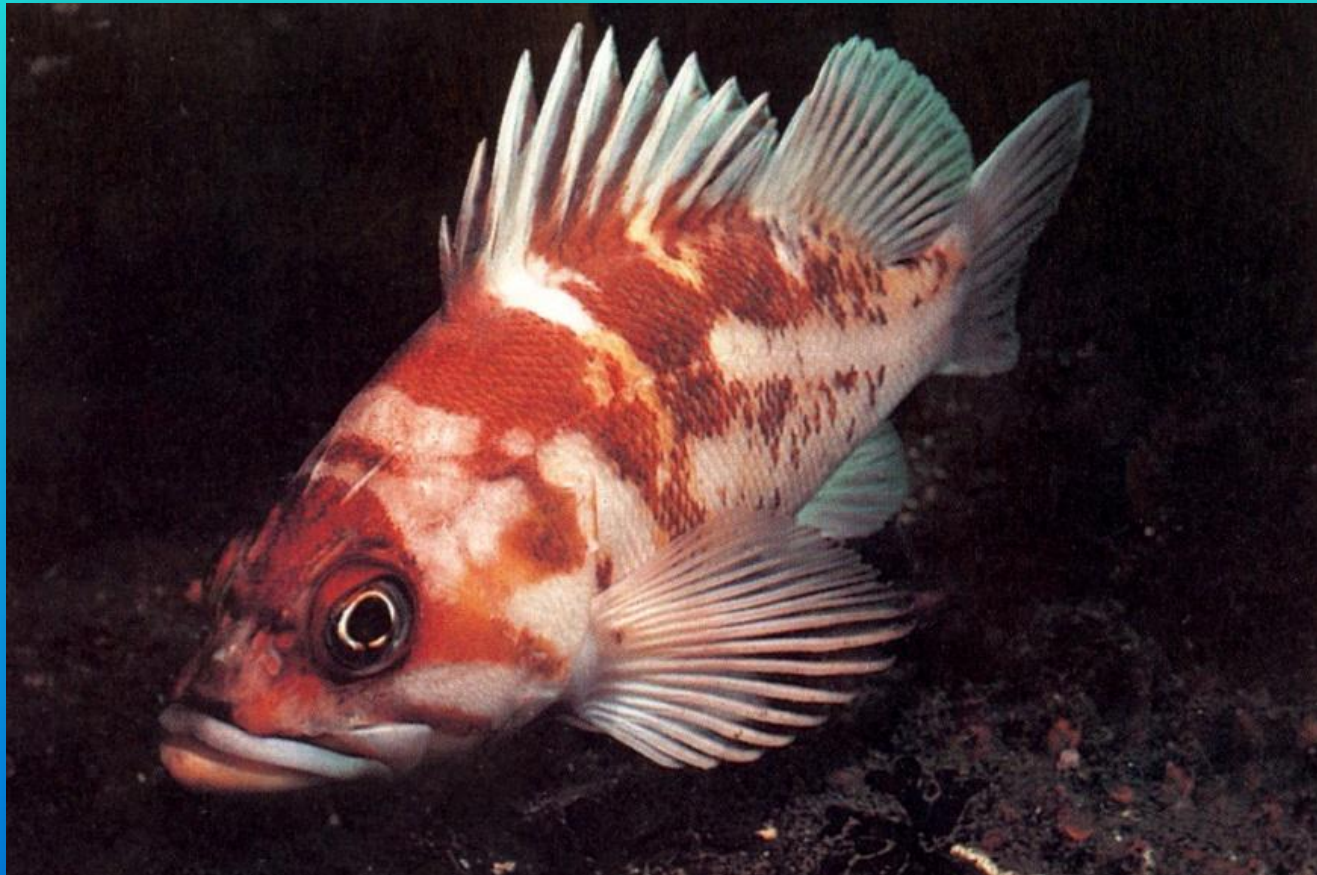
33



Striped Surfperch
Embiotoca lateralis

Rockfish

34



Copper Rockfish
Sebastes caurinus

Rockfish

35



Kelp Rockfish
Sebastes atrovirens

Tilefish

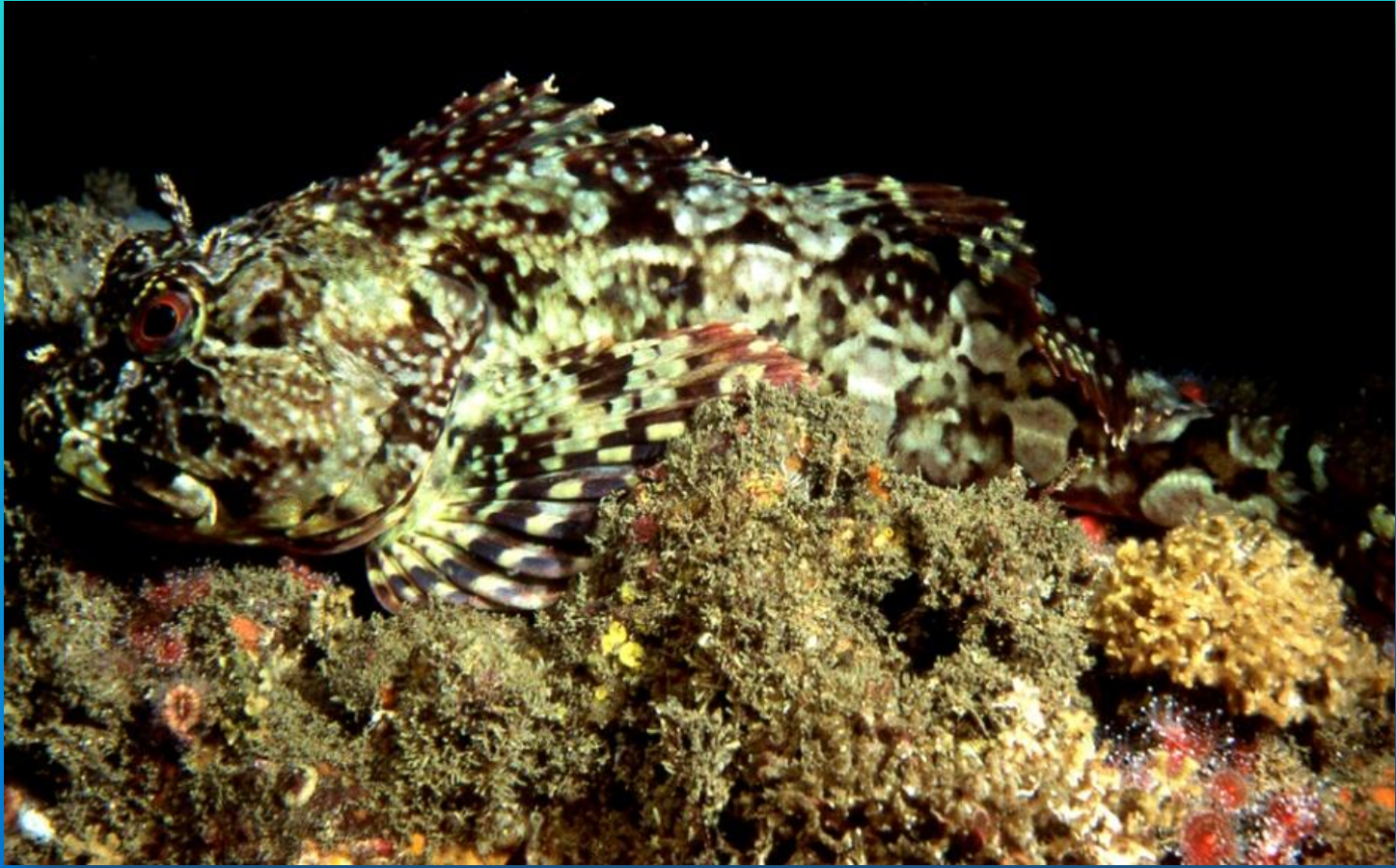
36



Ocean Whitefish
Caulolatilus princeps

Sculpin

37



Cabezon

Scorpaenichthys marmoratus

Sea Chub

38



Halfmoon
Medialuna californiensis

Tubesnout

39



Tubesnout
Aulorhynchus flavidus

Rockfish

40



Blue Rockfish
Sebastes mystinus

Rockfish

41



Gopher Rockfish
Sebastes carnatus

Surfperch

42



White Surfperch
Phanerodon furcatus

Goby

43



Zebra Goby
Lythrypnus zebra

Surfperch

44



Rubberlip Surfperch
Rhacochilus toxotes

Rockfish

45

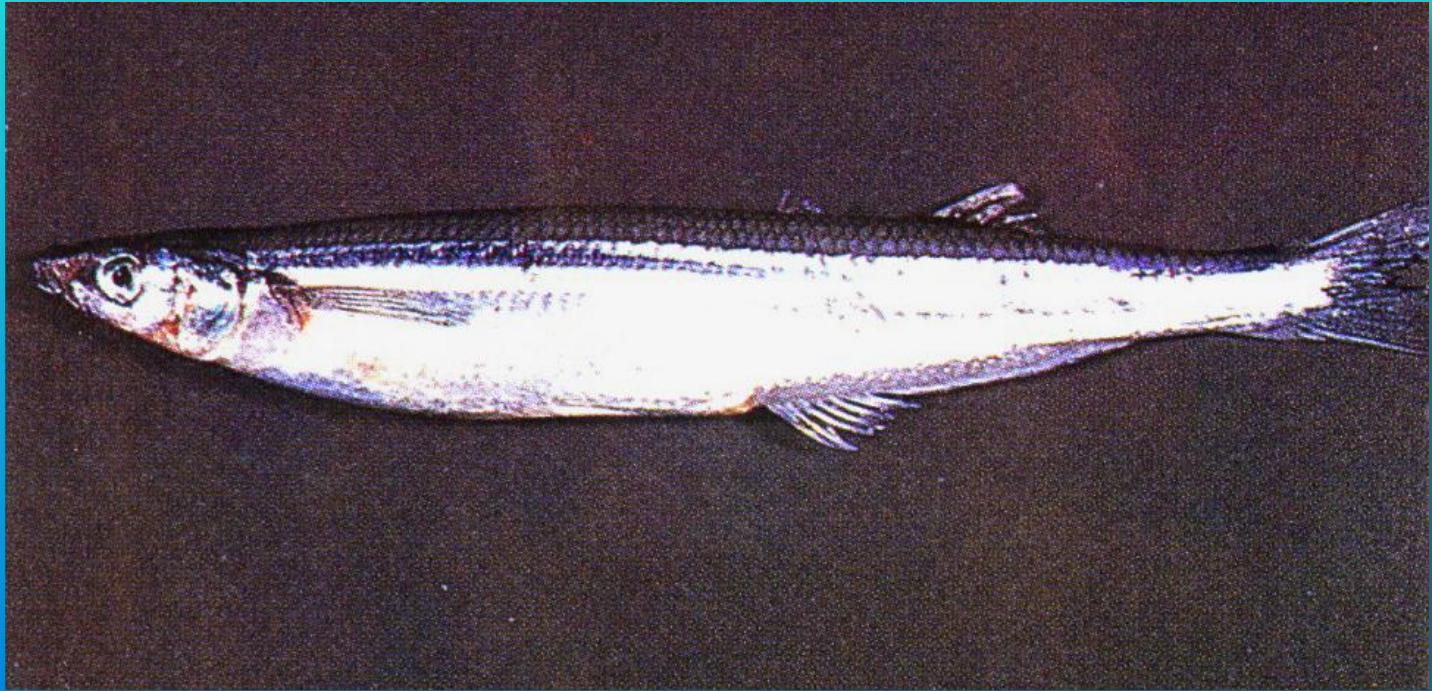


Treefish

Sebastes serriceps

Silverside

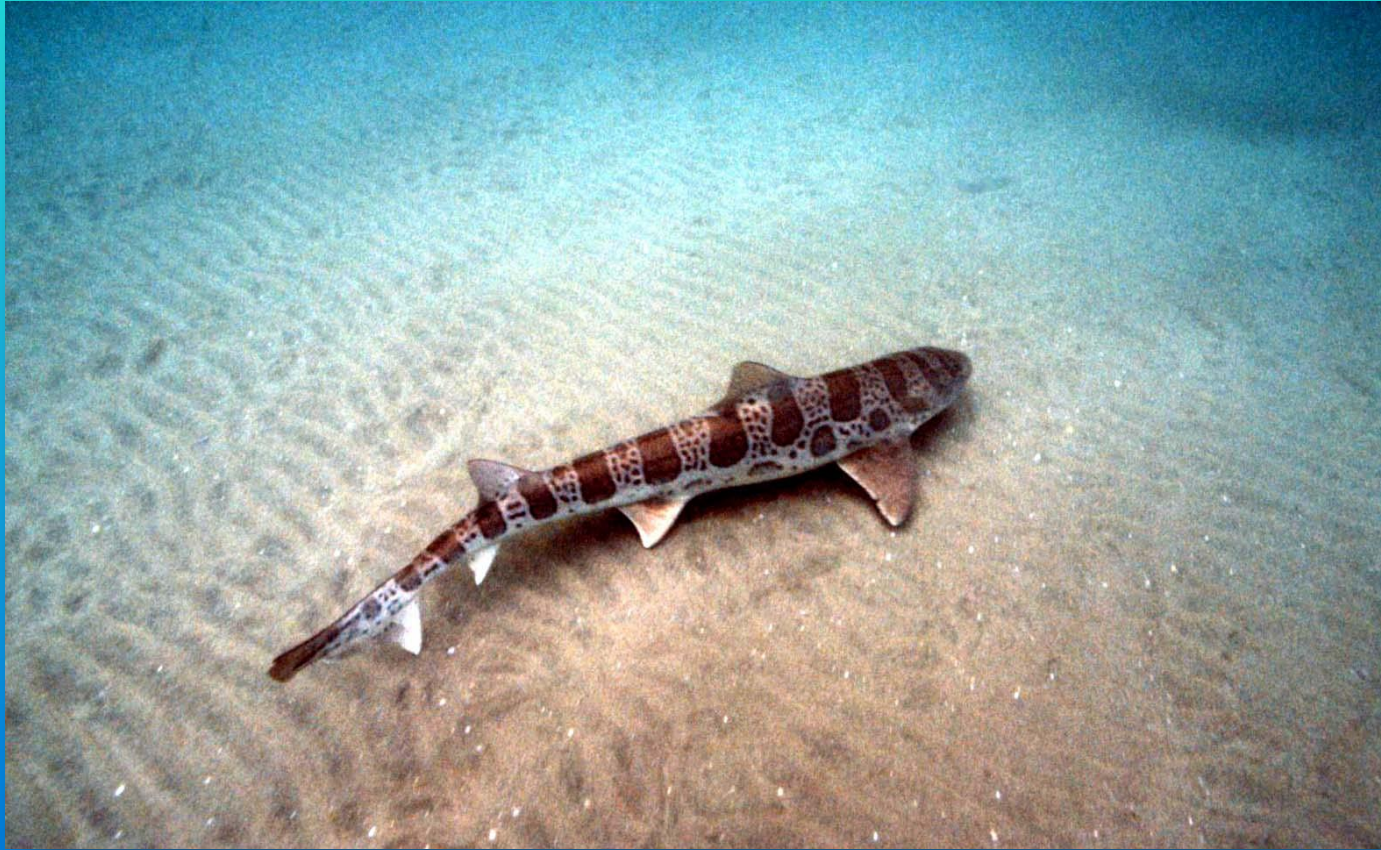
46



Topsmelt
Atherinops affinis

Shark

47



Leopard Shark
Triakis semifasciata

Surfperch

48



Shiner Surfperch
Cymatogaster aggregata

Sculpin

49



Coralline Sculpin
Artedius corallinus

Rockfish

50



Grass Rockfish
Sebastes rastrelliger

Eagle Ray

51



Bat Ray
Myliobatis californica

Kelpfish/Blenny 52



Island Kelpfish
Alloclinus holderi

Sculpin

53

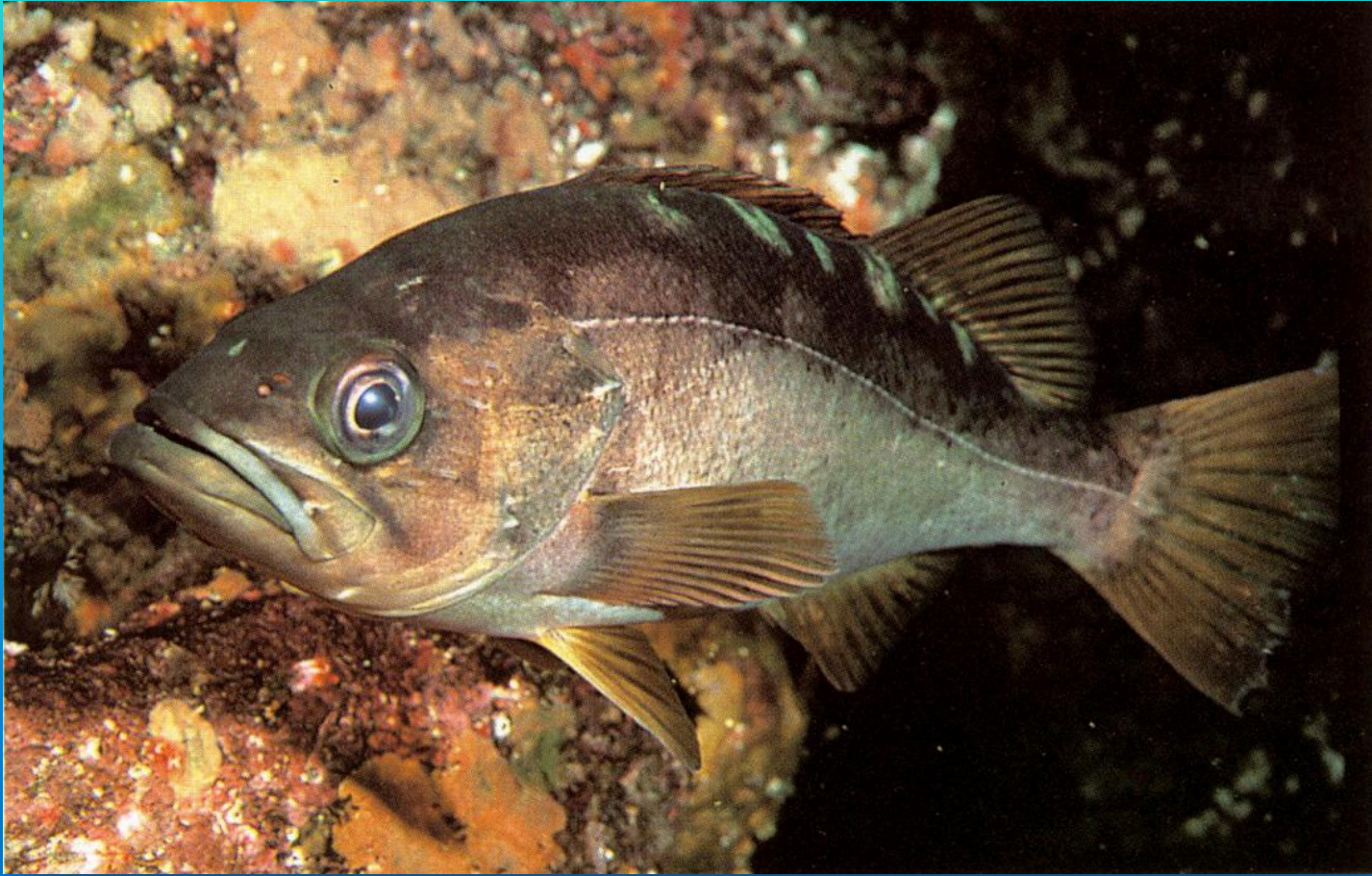


Roughback Sculpin
Chitonotus pugetensis

Unidentified Sculpin

Rockfish

54



Olive Rockfish
Sebastes serranoides

Goby

55



Blue-banded Goby
Lythrypnus dalli

Shark

56



Horn Shark
Heterodontus francisci

Rockfish

57

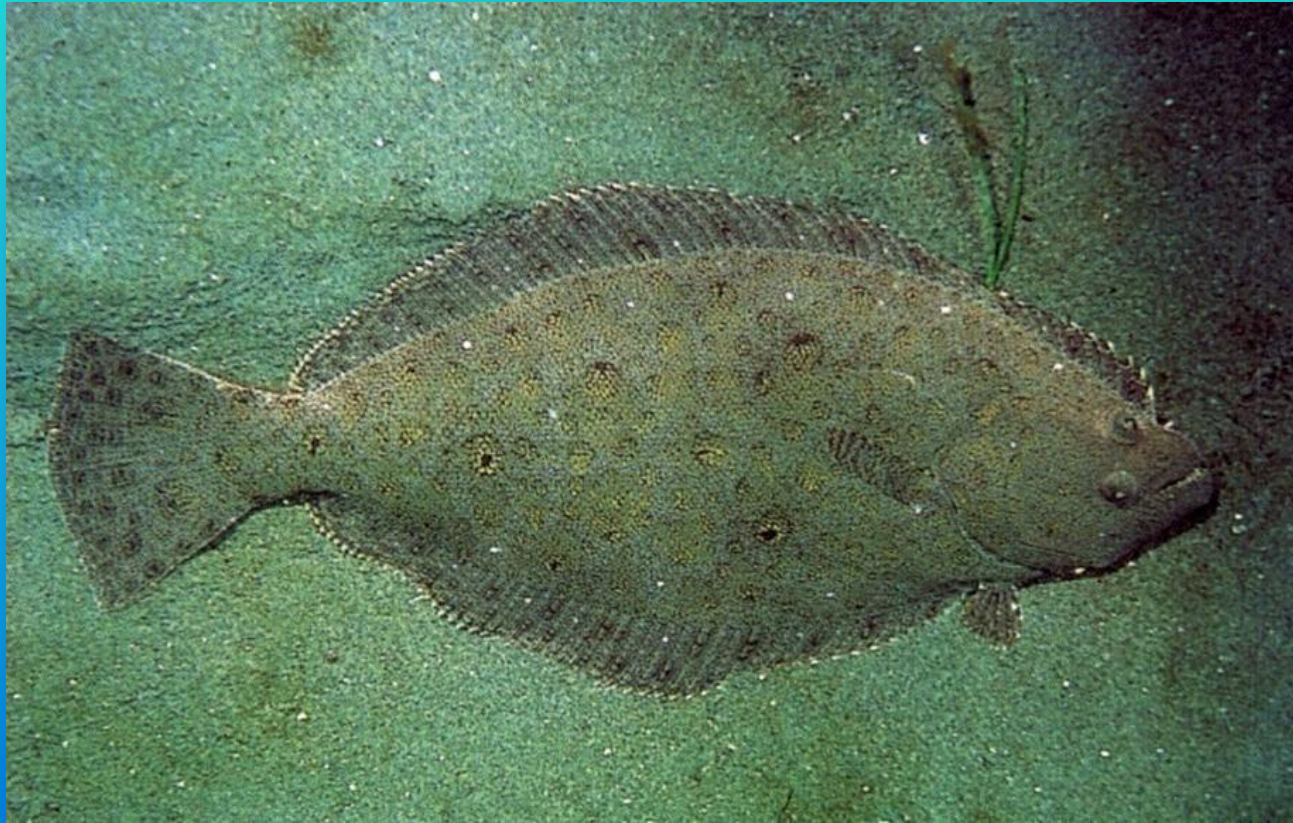


Black & Yellow Rockfish

Sebastes chrysomelas

Flatfish

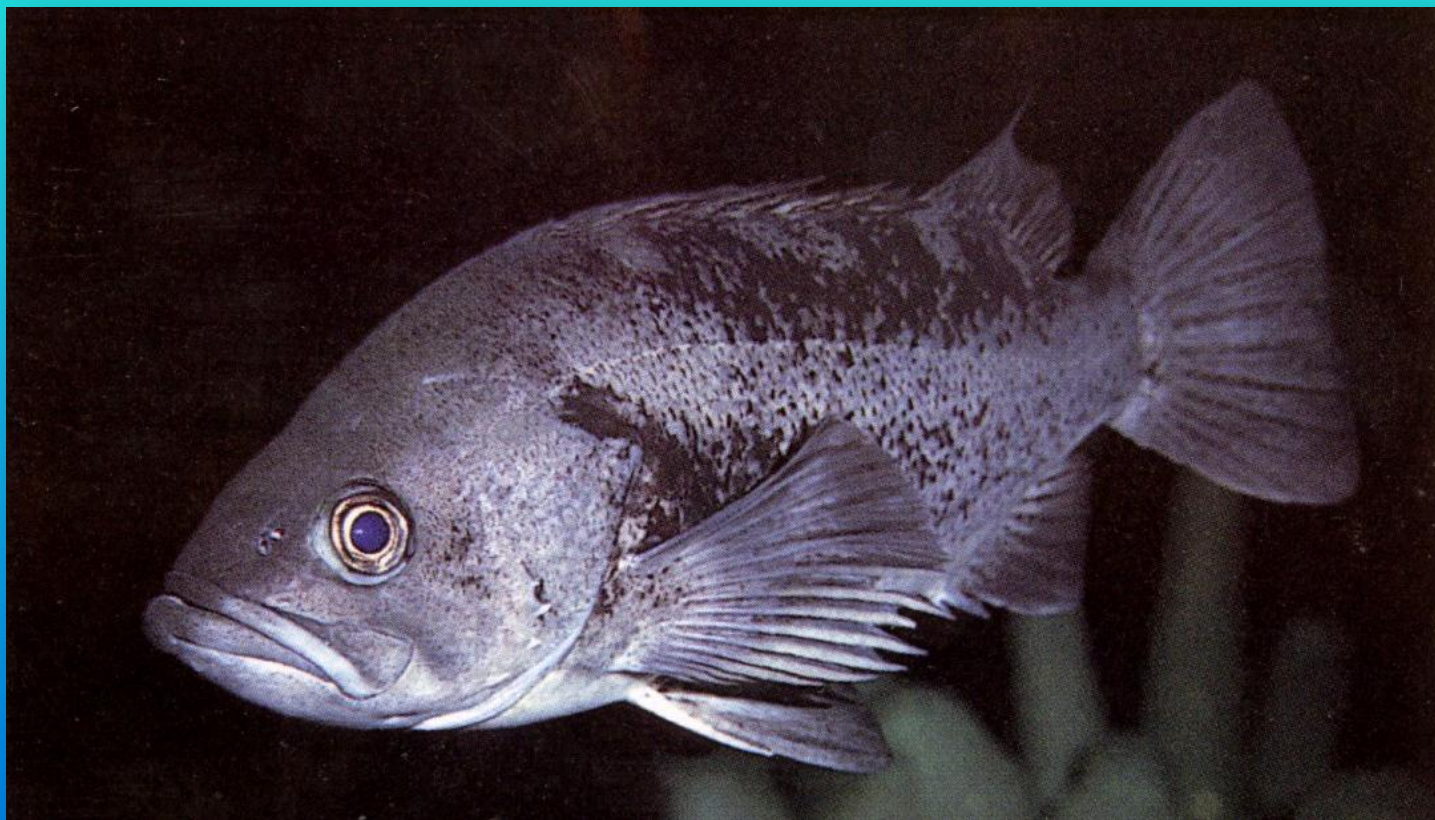
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California Halibut
Paralichthys californicus

Rockfish

59



Black Rockfish
Sebastes melanops

Moray

60



CA Moray Eel
Gymnothorax mordax

Congratulations!

You've just finished Level 4 Fish ID...

If you got 90% (108/120) or higher
on your quiz, you are officially a
Level 4 REEF surveyor!

Now - just get out, dive, submit some
more surveys and come back for Level 5!!



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