

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

DAMSELFISH

005 Blacksmith

006 Garibaldi

FLATFISH

021 California Halibut

022 C-O Sole

026 Speckled Sanddab

369 Unidentified Flatfish

GOBY

107 Blackeye Goby

108 Bluebanded 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 Fringhead

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 Blue-banded 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 Surfperch

120 Rubberlip Surfperch

122 Shiner Surfperch

123 Striped Surfperch

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

Level 2 REEF-Selected Fish Species (Southern California)

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

DAMSELFISH

005 Blacksmith

006 Garibaldi

FLATFISH

021 California Halibut

022 C-O Sole

026 Speckled Sanddab

369 Unidentified Flatfish

GOBY

107 Blackeye Goby

108 Bluebanded 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

065 Yellowtail 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 Surfperch

120 Rubberlip Surfperch

122 Shiner Surfperch

123 Striped Surfperch

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

Level 3 (additions to L2) 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 Bluebanded 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

065 Yellowtail 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 Surfperch

120 Rubberlip Surfperch

122 Shiner Surfperch

123 Striped Surfperch

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

Level 3 (complete) REEF-Selected Fish Species (Southern California)

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

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

Level 4

REEF-Selected Fish Species

(Southern California)

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

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

Level 5 REEF-Selected Fish Species (Southern California)

ARTHROPODS

400 Brown Rock Crab
151 Coonstripe Shrimp
401 Masking/Sheep Crab
155 Northern Kelp Crab
402 Red Rock Shrimp
403 CA Spiny Lobster

BRYOZOANS

404 Fluted Bryozoan
158 Lacy Bryozoan
405 N. Staghorn Bryozoan
406 S. Staghorn Bryozoan

CNIDARIANS

161 Strawberry Anemone
162 Tube-dwelling Anemone
163 White-spotted Anemone
407 Brown Gorgonian
408 CA Golden Gorgonian
410 Red Gorgonian
166 Orange Cup Coral
409 Purple Hydrocoral

ECHINODERMS

169 CA Sea Cucumber
411 Warty Sea Cucumber
412 Bat Star
413 Giant Spined Star
171 Leather Star
414 Spiny Brittle Star
173 Sunflower Star
415 Crowned Urchin
416 Purple Urchin
176 Red Sea Urchin
417 White Urchin
174 Eccentric Sand Dollar

MOLLUSKS

429 Green Abalone
430 Pink Abalone
431 Red Abalone
432 Unidentified Abalone
178 Opalescent Nudibranch
418 Red Sea Hare
419 San Diego Dorid
420 Sea Lemon
421 Spanish Shawl
422 Red Octopus
423 Two-spot Octopus
424 Chestnut Cowry
425 Giant Keyhole Limpet
426 Kellet's Whelk
183 Lewis' Moonsnail
427 Red Turban Snail
428 Wavy Turban Snail
185 Gumboot Chiton
187 Rock Scallop

SPONGES

433 Cobalt Sponge
434 Orange Puffball
435 Red Volcano Sponge

TUNICATES

194 Club Tunicate (exotic)
436 Light-Bulb Tunicate
437 Stalked Tunicate

WORMS

438 Christmas Tree Worm
439 Colonial Sand-tube Worm
440 Feather Duster Worm

ALGAE

441 Asian Kelp Wakame (exotic)
442 Bull Kelp
443 Giant Kelp
444 Northern Sea Palm
446 Southern Sea Palm
445 Oarweed

Level 5

REEF-Selected Invertebrate/Algal Species (Southern California)