



GNSI Conference and Annual Meeting

University of California at Santa Cruz
July 3rd–July 9th, 2016

The following is not an exhaustive list, by any means, but a good place to get started.

For more ideas and good photographs see:

- Species lists for local kelp forest and the coast: <http://montereybay.noaa.gov/sitechar/kelptab1.html>
- Birds local to the Monterey Bay area: <http://montereybay.noaa.gov/sitechar/birtab1.html>
- AMAZING photo library (most images in public domain): <http://sanctuarymonitoring.org/photos/index.php>
- LADiving.org's photography site, created by Scott Gietler. Extensive Southern California underwater field guide, with more than 450 different species: <http://www.ladiving.org/fieldguide.html>, and
- <http://nathistoc.bio.uci.edu/Molluscs/index.htm>

IDEAS FOR CALIFORNIA KELP FOREST SPECIES:

Echinoderms

Asterina miniata
Dermasterias imbricata
Henricia leviscula
Mediaster aequalis
Orthasterias koehleri
Pisaster spp.
Pychnopodia helianthoides
Strongylocentrotus spp.

Molluscs

Anisidoris nobilis
Aplysia californica
Astrea gibberosa
Calliostoma spp.
Cypraea spadicea
Cryptochiton stelleri
Hermessenda (Phidiana)
Mitra idae
Navanax inermus
Enteroctopus dofleini,
Giant Pacific octopus
Octopus rubescens, Red octopus
Navanax inermus
Tegula spp.
Tonicella lineata

Crustaceans

Balanus spp.
Cancer spp.
Loxorhynchus crispatus
Pagurus hemphillii
Pugettia richii
Scyra acutifrons

Crabs

(From SF Bay Wildlife.info)
Pachygrapsus crassipes,
Striped (Lined) Shore Crab
Hemigrapsus nudus,
Purple Shore Crab
Hemigrapsus oregonensis,
Yellow Shore Crab (Mud-flat Crab)
Metacarcinus magister,
Dungeness Crab
Metacarcinus gracilis,
Slender (Graceful) Crab
Romaleon antennarium,
Pacific (Brown) Rock Crab
Cancer productus, Red Rock Crab
Emerita analoga, Pacific mole crab
Loxorhynchus crispatus,
Decorator Crab
Loxorhynchus grandis, Sheep Crab

Pagurus samuelis,
Blueband Hermit Crab
Emerita analoga, Sand Crab
Petrolisthes cinctipes,
Flat Porcelain Crab
Pugettia producta,
Shield-backed Kelp Crab
Paralithodes rathbuni,
Spiny King Crab
Pyromaia tuberculata, Spider Crab
Carcinus maenas (Introduced),
European Green Crab
Eriocheir sinensis (Introduced),
Chinese Mitten Crab
Scyra acutifrons, Sharp-nosed Crab

Ascidians

Aplidium californicum
Clavelina huntsmani
Styella montereyensis
Styletta clarella
Tethya aurantia

Sponges

Acarnus erithacus
Cliona spp.
Hymenamphistra cyanocrypta



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Species Suggestions, page 2

Cnidarians

Agalophenia spp.

Anthopleura spp.

Astrangia lajollensis

Balanophyllia elegans

Corynactis californica

Metridium senile

Paracyathus stearnsi

Stylaster californica.

Urticina spp.

Bryozoans

Diaperoecia californica

Hippodiplosia insculpta

Membranipora tuberculata

Phidolopora pacifica

Stylaster spp.

Thalamoporella californiaca

Fish

Brachyistius frenatus

Chromis punctipinnis

Coryphopterus nicholsii

Embiotoca spp

Girella nigricans

Heterostichus rostratus

Hexagrammus decagrammus

Hyspurus caryi

Myllobatis californica

Ophiodon elongatus

Orthanopias triacis

Oxyjulis californica

Rhacochilus toxotes

Scorpaenichthys marmoratus

Sebastes spp.

Semicossyphus pulcher

Some Saltwater/Tidal Fish

(From SF Bay Wildlife.info)

Sharks, Rays and Skates

Mola mola, Ocean Sunfish

Thunnus orientalis,
Pacific Bluefin Tuna

Alosa sapidissima (Non-native),
American Shad

Clupea pallasii, Pacific Herring

Dorosoma petenense (Non-native),
Threadfin Shad

Sardinops sagax, South American
Pilchard (Pacific Sardine)

Engraulis mordax, Californian
(Northern) Anchovy

Hypomesus transpacificus,
Delta Smelt

Hypomesus pretiosus, Surf Smelt

Spirinchus thaleichthys
(Threatened), Longfin Smelt

Merluccius productus,
North Pacific Hake (Whiting)

Porichthys notatus,
Plainfin Midshipman

Lucania parva (Non-native),
Rainwater Killifish

Atherinops affinis, T
opsmelt Silverside

Atherinopsis californiensis,
Jack Silverside (Jacksmelt)

Syngnathus leptorhynchus,
Bay Pipefish

Sebastes auriculatus,
Brown Rockfish

Hexagrammos decagrammus,
Kelp Greenling

Ophiodon elongatus, Lingcod

Oligocottus maculosus,
Tidepool Sculpin

Scorpaenichthys marmoratus,
Cabezon

Girella nigricans, Opaleye

Morone saxatilis (Non-native),
Striped Bass

Trachurus symmetricus,
Pacific Jack Mackerel

Genyonemus lineatus, White Croaker

Cymatogaster aggregata,
Shiner Perch

Amphistichus argenteus,
Barred Surfperch

Embiotoca jacksoni, Black Surfperch

Micrometrus minimus,
Dwarf Surfperch

Phanerodon furcatus,
White Surfperch

Hyperprosopon argenteum,
Walleye Surfperch

Rhacochilus vacca, Pile Perch

Tridentiger bifasciatus (Non-native),
Shimofuri Goby

Hippoglossus stenolepis,
Pacific Halibut

Ilypnus gilberti, Cheekspot Goby

Pholis ornata, Saddleback Gunnel

Lepidogobius lepidus, Bay Goby

Citharichthys sordidus,
Pacific Sanddab

Citharichthys stigmaeus,
Speckled Sanddab

Paralichthys californicus,
California Halibut

Hypsopsetta guttulata,
Diamond Turbot

Parophrys vetulus, English Sole

Pleuronichthys decurrens,
Curlfin Sole

Psettichthys melanostictus,
Pacific Sand Sole

Symphurus atricaudus,
California Tonguefish

Microgadus proximus,
Pacific Tomcod

Synodus lucioceps,
California Lizardfish



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Species Suggestions, page 3

Mammals

Enhydra lutris
Phoca vitulina
Eschrichtius robustus
Zalophus californianus

Birds

(Nowhere near all species
 found on the coast)

Aechmophorus occidentalis
Ardea herodias
Arenaria spp.
Calidris alba
Catoptrophorus semipalmatus
Cephus columba
Corvus brachyrhynchos
Dendrioca coronata
Gavia immer
Heteroscelus incanus
Larus spp.
Leucophoyx thula
Lobipes lobatus
Melanitta perspicillata
Pelicanus occidentalis
Phalacrocorax spp.

Phalaropus fulicarius
Podiceps spp.
Sayornis nigricans
Sturnus vulgaris
Thalasseus elegans
Uria aalge

Red Algae (Rhodophyta)

Bossiella californica
Botryocladia pseudodichotoma
Calliarthron spp.
Callophyllis spp.
Corallina spp.
Cryptopleura farlowiana
Faucea laciniata
Fryeella gardneri
Gastroclonium coulteri
Gelidium spp.
Gigartina spp.
Halymenia spp.
Laurencia spp.
Lithophyllum spp.
Lithothamnion spp.
Opuntiella californica
Pikea californica

Plocamium cartilagineum
Polysiphonia spp.
Prionitis lanceolata
Rhodymenia spp.
Weeksia reticulata

Brown Algae (Phaeophyta)

Costaria costata
Cystoseira osmundacea
Desmarestia ligulata
Dictyoneuropsis reticulata
Dictyoneurum californicum
Dictyota cribosea
Egregia menziesii
Eisenia arborea
Laminaria spp.
Macrocystis pyrifera
Nereocystis leutkeana
Pterygophora californica

Green Algae (Chlorophyta)

Cladophora microcladioides
Derbesia marina
Enteromorpha spp.

IDEAS FOR CALIFORNIA COAST SPECIES: (from SF Bay Wildlife.info)

Bees

Apis mellifera, Honey Bee
Bombus occidentalis,
 Western Bumble Bee
Bombus vosnesenskii or
Bombus caliginosus,
 Yellow-faced Bumble Bee
Xylocopa californica,
 California Carpenter Bee
Agapostemon sp.,
 Green Metallic Bee
Anthidium manicatum (Introduced
 and spreading west), European
 Wool Carder Bee

Beetles

Hippodamia convergens,
 Convergent Lady Beetle
Coccinella septempunctata,
 Seven-spotted Lady Beetle
Diabrotica undecimpunctata,
 Spotted Cucumber Beetle
Polyphylla decemlineata,
 Ten-lined June Beetle
Chrysochus cobaltinus,
 Cobalt Milkweed Beetle

Grasshoppers, Crickets and Katydid:

Order Orthoptera

Arphia behrensi, California
 Sulphur-winged Grasshopper
Dissosteira pictipennis,
 California Rose-winged Grasshopper
Trimerotropis pallidipennis,
 Pallid-winged Grasshopper
Stenopelmatus fuscus,
 Jerusalem Cricket



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Species Suggestions, page 4

Wasps

Polistes dominula,
European Paper Wasp
Vespula sulphurea,
California Yellowjacket
Vespula pensylvanica,
Western Yellowjacket
Sphex ichneumoneus,
Great Golden Digger Wasp
Sceliphron caementarium,
Black and Yellow Mud Dauber
Chalybion californicum,
Blue Mud Wasp or Mud-Dauber
Pepsis pallidolimbata, T
arantula Hawk

Common Butterflies of the Bay Area

Erynnis propertius,
Propertius Duskywing
Erynnis tristis, Mournful Duskywing
Pyrgus communis,
Common Checkered-Skipper
Hylephila phyleus, Fiery Skipper
Poanes melane, Umber Skipper
Papilio zelicaon, Anise Swallowtail
Papilio rutulus,
Western Tiger Swallowtail
Anthocharius sara, Sara Orangetip
Pieris rapae, Cabbage White
Colias eurytheme, Orange Sulphur
Strymon melinus, Gray Hairstreak
Brephidium exilis,
Western Pygmy-Blue
Celastrina echo, Echo Azure
Plebejus acmon, Acmon Blue
Danaus plexippus, Monarch
Agraulis vanillae, Gulf Fritillary
Speyeria callippe, Callippe Fritillary
Limenitis lorquini, Lorquin's Admiral
Adelphia bredowii, California Sister

Chlosyne palla,
Northern Checkerspot
Phyciodes mylitta, Mylitta Crescent
Phyciodes pulchella, Field Crescent
Euphydryas chalcedona,
Variable Checkerspot
Junonia coenia, Common Buckeye
Nymphalis antiopa, Mourning Cloak
Nymphalis californica,
California Tortoiseshell
Polygonia satyrus,
Satyr Comma (Anglewing)
Vanessa atalanta, Red Admiral
Vanessa cardui, Painted Lady
Vanessa annabella, West Coast Lady
Vanessa virginiensis, American Lady
Coenonympha tullia,
Common Ringlet

The Damselflies & Dragonflies of Monterey County

<http://creagrus.home.montereybay.com/MTYOdonata.html>

Common Dragonfly Species

Anax junius, Common Green Darner
Rhionaeschna multicolor,
Blue-eyed Darner
Rhionaeschna californica,
California Darner
Sympetrum corruptum,
Variegated Meadowhawk
Erythemis collocata,
Western Pondhawk
Pachydiplax longipennis,
Blue Dasher
Plathemis lydia, Common Whitetail
Libellula luctuosa, Widow Skimmer
Libellula saturata, Flame Skimmer
Tramea lacerata, Black Saddlebags

Common Damselfly Species

Argia vivida, Vivid Dancer
Argia lugens, Sooty Dancer
Argia emma, Emma's Dancer
Ischnura cervula, Pacific Forktail
Ischnura perparva, Western Forktail
Telebasis salva, Desert Firetail
Hetaerina americana,
American Rubyspot
Lestes congener,
Spotted Spreadwing

From California Native Plant Society, Santa Cruz Co.

<http://www.cruzcnp.org/horticulture.php>
Achillea millefolium, Yarrow
Achillea millefolium,
Yarrow, pink Island form
Asarum caudatum, Wild ginger
Brodiaea elegans, Harvest Brodiaea
Chlorogalum pomeridianum,
Soap Plant
Clarkia rubicunda,
Ruby Chalice Clarkia
Clarkia speciosa ssp.
Dichelostemma congestum, Ookow
Dichelostemma ida-maia,
Firecracker Flower
Epilobium canum, California fuchsia
Erigeron glaucus, Seaside Daisy
Eriophyllum staechadifolium,
Seaside Woolly Sunflower
Gilia capitata
Gilia tricolor, Bird's Eye Gilia
Heuchera micrantha, Alumroot
Heuchera pilosissima,
Shaggy Alumroot
Heuchera rubescens, Alumroot
Holodiscus discolor, Ocean Spray
Iris douglasiana, Douglas Iris



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Species Suggestions, page 5

Iris innominata, blue form,

Iris innominata, hybrid yellow form

Isocoma menziesii,
Coastal Goldenbush

Keckiella cordifolia,
Bush Snapdragon

Lonicera hispidula, Honeysuckle

Lonicera involucrata, Twinberry

Madia elegans

Maianthemum dilatatum,
False Lily-of-the-valley

Malacothamnus fasciculatus,
Chaparral Mallow

Mimulus aurantiacus,
Sticky Monkeyflower

Mimulus lewisii

Pellaea mucronata, Birdsfoot Fern

Penstemon rydbergii

Phacelia grandiflora

Phacelia viscida

Polypodium, Lyman's Fern

Polypodium glycyrrhiza,
Licorice fern

Pycnanthemum californicum

Ribes malvaceum,
Chaparral Currant

Ribes sanguineum,
Red Flowering

Ribes thacherianum,
Santa Cruz Island Gooseberry

Salvia clevelandii,
Cleveland Sage

Salvia leucophylla, Purple Sage

Salvia spathacea,
Hummingbird Sage

Satureja douglasii, Yerba Buena

Sedum divergens,
Cascade Snowcrop

Sisyrinchium bellum,
Blue-eyed Grass

Smilacina racemosa,
False Solomon's Seal

Solanum xanti,
Nightshade or Blue Witch

Spiraea douglasii

Stylomecon heterophylla,
Wind Poppy

Symphoricarpos albus var. *laevigatus*,
Snowberry

Triteleia hyacinthina, Wild hyacinth

Triteleia ixioides, *Triteleia laxa*,
Ithuriel's Spear

Triteleia peduncularis

Vaccinium ovatum,
California Huckleberry

Vancouveria chrysantha,
Siskiyou Inside-out Flower

Vancouveria planipetala,
Redwood Ivy