

Central and Northern California Coastal Marine Habitats: Oil Residence and Biological Sensitivity Indices

RELATIVE ABUNDANCE OF MAJOR MACROBIOTA*

Taxa	A
ROCKY INTERTIDAL MACROBIOTA	
Acorn barnacles	0
Chlorophyta	C
Porphyra spp.	0-C
Pelvetiopsis limitata	C
Endocladia muricata	C
Pelvetia fastigiata	C
Fucus distichus	C
Gigartina spp.	C
Pollicipes polymerus	C
Mytilus californianus	C
Corallina spp./Gigartina spp.	0-C
Postelsia palmaeformis	C
Halosaccion glandiforme	0
Iridaea spp.	C
Odonthalia spp./Rhodomela larix	0
Coralline algae	C
Phyllospadix spp.	0
Alaria marginata	C
Egregia menziesii	C
Laminaria spp.	C
Lessoniopsis littoralis	C
OTHER MACROBIOTA	
Kelp beds:	
Macrocystis spp.	
Nereocystis luetkeana	
Marine mammals:	
Elephant seal	
Harbor seal	
Steller sea lion	
California sea lion	
Seabird nesting colonies:	
Fork-tailed storm petrel	
Leach's storm petrel	
Ashy storm petrel	
Brandt's cormorant	
Double-crested cormorant	0
Pelagic cormorant	C
Black oystercatcher	
Western gull	0
Common murre	
Pigeon guillemot	
Cassin's auklet	
Rhinoceros auklet	
Tufted puffin	
Threatened/Endangered Species:	
Aleutian Canada goose	
Southern sea otter	

*Relative abundance for summer conditions: 0 = occasional, C = common, A = abundant

PHYSICAL SHORE-ZONE CHARACTERISTICS

UNIT IDENTIFIERS	A
ALONGSHORE LENGTH (km)	2.8
ACROSS-SHORE WIDTH (m)	20
WAVE EXPOSURE	10
ACROSS-SHORE COMPONENTS (morphology, texture)	Cp, Rs Bi, Cgb: Rs Ore, Rs
Primary	Ca, Rs
Secondary	Bi, Cgb: Rs Ore, Rs
MICRO RELIEF	R
MACRO RELIEF	S
SUMMARY CHARACTERISTICS	Rb ¹ mv0
OIL RESIDENCE INDEX	3
GROUND TRUTH	0

ABBREVIATED PHYSICAL SHORE-ZONE CODING EXPLANATION

This is an abbreviated legend for the physical shore-zone coding sheets; consult the main text for a complete discussion of codes and rationale. Only the across-shore descriptors for morphology and texture are discussed.

ACROSS-SHORE COMPONENTS - dominant morphologic and textural character of each across-shore component, described in a landward to seaward sequence. Each component consists of a geomorphic form descriptor and a substrate descriptor:
FORM + Bb, Csg + TEXTURE

The primary geomorphic forms are initially described by a series of 12 codes:
A Anthropogenic E Coastal Bay, Lagoon, Estuary P Platform
B Beach I Inlet R River
C Cliff M Marsh S Bar/Trough
D Dune O Offshore Rocks T Delta

Each of these groups is then further modified by codes as indicated below.

Anthropogenic (A)			
e causeway	j jetty	m marina	t trench
f float	g groin	r boat ramp	s seawall
			w wharf
Beach (B)			
b berm	i inclined slope	s storm ridge	
c washover channel	m multiple intertidal bars	t low-tide terrace	
f beach face	r single intertidal bar	w washover	
Cliff (C)			
a active or erosional	p passive	c caves present	
Dune (D)			
b blowout	f foredune	s ridge and swale	
d stabilized	r random form	l longitudinal	
Coastal Bay, Lagoon, Estuary (E)			
b enclosed bay	e estuary		
Inlet (I)			
e ephemeral	a opening fixed by offshore structures		
s stable	f flood-tidal delta	l ebb-tidal delta	
Marsh (M)			
	c tidal creek		
Offshore Rocks (O)			
e intertidal reef	n sea stack		
r rock outcrop (>2 m above M.S.L. and <10 m in width or length)			

Platform (P)		
h high-tide platform	f horizontal	t terraced
l low-tide platform	r ramp	i irregular
River (R)		
b braided	m multiple	s single channel
Bar/Trough (S) subtidal		
	r with rip channels	
Delta (T)		
c channel	m multiple channels	p delta plain
f fan	s single channel	v crevasse
l levee		
Substrate type or sediment texture are described in detail by a series of codes. The sediments or materials of the shore are initially coded into one of four groups:		
A anthropogenic materials	C clastic sediments	
B biogenic sediments	R bedrock	
Each of these groups is then further modified by texture or composition as indicated below.		
Anthropogenic materials (A)		
a metal	n concrete (solid)	w bark or wood debris
d debris, rubble	t logs	u wood (structural; e.g., pilings or boards)
e concrete (individually formed)		
Biogenic sediments (B)		
l trees or wood particles	o organic litter	
s shell hash (with a texture as described below)		
Clastic sediments (C)		
b boulder	s sand	m mud
c cobble	l silt	g gravel
p pebble	cl clay	r rubble
Bedrock (R)		
l igneous	m metamorphic	s sedimentary

Where more than one texture is present in an across-shore component, several substrates or textures may be indicated. Where one texture physically overlies another, it is indicated by a slash (e.g., Ca/Rs, and over rock). Where several mutually exclusive textures occur within a component, such as rock outcrops within a sand beach, a colon is used to indicate that association (e.g., Cs:Rl).

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