

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

RELATIVE ABUNDANCE OF MAJOR MACROBIOTA*

Taxa	A	B	C	D	E	F	G	H	I
ROCKY INTERTIDAL MACROBIOTA									
Acorn barnacles	0		0	0	0			0	
Chlorophyta	0		0	0	0			0	
Porphyra spp.	0		0	0	0			0	
Pelvetiopsis limitata	0		0	0	0			0	
Endocladia muricata	0		0	0	0			0	
Pelvetia fastigiata									
Fucus distichus	0		0	0	0			0	
Gigartina spp.	0		0	0	0			0	
Pollicipes polymerus	0		0	0	0			0	
Mytilus californianus	0		0	0	0			0	
Corallina spp./Gigartina spp.	0		0	0	0			0	
Postelsia palmaeformis									
Halosaccion glandiforme									
Iridaea spp.									
Odonthalia spp./Rhodomela larix									
Coralline algae	0		0	0	0			0	
Phyllospadix spp.									
Alaria marginata									
Egregia menziesii									
Laminaria spp.									
Lessoniopsis littoralis									
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									
Pelagic cormorant									
Black oystercatcher									
Western gull									
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	B	C	D	E	F	G	H	I
ALONGSHORE LENGTH (km)	0.7	0.3	0.5	0.3	0.8	4.1	0.2	0.6	0.9
ACROSS-SHORE WIDTH (m)	50	-	50	<5	20	100	50	30	-
WAVE EXPOSURE	10	1-10	10	10	10	10	1-10	10	1-10
ACROSS-SHORE COMPONENTS (morphology, texture)	Cp, Rs Bb, AT Cspb Bf, Csp	Eb, Cs: Bo Ie, Cs Bf, Cs	Ca, Rs B1, Cscb Ore, Rs	Ca, Rs Ore, Rs	Ca, Rs B1, Cgb Ore, Rs	D1, Cs Bs, AT Cs Bf, Cs S, Cs	M, Bo Bw, Cs Bc, Cs Bs, Cs Bb, Cs S, Cs	Ca, Rs B1, Csp: Rs Ore, Rs S, Cs	Eb, Cs: Bo Bw, Cs Bc, Cs Bf, Cs
Primary									
Secondary									
MICRO RELIEF	S	-	R	R	R	S	S	S	-
MACRO RELIEF	S	-	S	R	R	S	S	R	-
SUMMARY CHARACTERISTICS	Rbg	IeE	bmv	Rv	Rbmv	bg	bgE	Rbmv	IeE
OIL RESIDENCE INDEX	2	1-2	3	3	3	2	1-2	3	1-2
GROUND TRUTH	0	0	0	0	0	0	2	0	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, Csp ← 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 s 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
e concrete (individually formed) u wood (structural; e.g., pilings or boards)

Biogenic sediments (B)
j 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 t silt g gravel
p pebble d clay r rubble

Bedrock (R)
i 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., Cs/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., Ca:R1).

Prepared for
Minerals Management Service
Pacific Outer Continental Shelf Region
Los Angeles, California

by
Woodward-Clyde Consultants
Environmental Systems Division
San Francisco, California

November, 1982

M.M.S. Map# 123
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