

RECONNAISSANCE COASTAL GEOLOGY - EASTERN VANCOUVER ISLAND

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This series of 1:50,000 maps of eastern Vancouver Island, from Sooke to Campbell River, was prepared by the Geological Survey based primarily on information collected by the Habitat Protection Unit of Fisheries and Oceans Canada (Vancouver) during the Vancouver Island Foreshore Inventory study. The basic data are from field observations, supplemented by air photos, nautical charts and topographic maps, and summarize the supratidal, intertidal and, where information exists, the shallow subtidal slopes, widths and substrate characteristics. These maps are preliminary and will be revised as additional information becomes available; corrections and amendments will be gratefully received.

The map labels are divided into three fields, corresponding to subtidal (S), intertidal (I) and supratidal (E), and refer to the adjacent coastal segment marked off by short, heavy lines. Where the limits of the coastal segment were not precisely defined in the field notes, an arrow is used to indicate the site described. Where symbols are absent, information is lacking.

Substrate types are shown as subscripts to the primary symbols S, I and E. Where two or more types of material are present, the abundance decreases from left to right.

LEGEND

Subtidal - S

- S₁ bedrock
- S₂ gravel
- S₃ sand
- S₄ mud

e.g. S₁₃₂ - bedrock subtidal zone with minor sand and gravel

Intertidal - I

- I₁ bedrock
- I₂ boulder
- I₃ gravel
- I₄ sand
- I₅ mud
- I₆ manmade (fill, stone, concrete)

e.g. I₅₄₁ - muddy intertidal zone with minor sand and occasional bedrock outcrops

Supratidal - E

- E₁ bedrock
- E₂ unconsolidated sediments
- E₃ manmade (fill, stone, concrete)

Width of Intertidal Zone - W

- W₁ less than 10 m
- W₂ 10 m to 60 m
- W₃ more than 60 m

Foreshore Slope

5 or 10-slope ranges from 0° - 5° or 0 - 10°

e.g. 40-90 - range of values indicate highly variable slope, e.g. from 40° - 90°

e.g. 25 - single value (other than 5 or 10) indicates narrow range of slopes; e.g. averaging 25°.