

ONE‘ULA AREA DESCRIPTION

One‘ula Beach Park (transects 255 - 300) is located on the south coast of O‘ahu. The shoreline is composed of carbonate sand and limestone with a fringing offshore reef. The area is exposed to persistent tradewind waves year-round and seasonal swells in summer months.

Beach width and sand volume are highly variable along the western two-thirds of the study area (transects 266 - 300), as underlying limestone is intermittently exposed or buried by shifting sand. Overall, the beach is experiencing chronic erosion at an average rate of -0.4 ft/yr. The west end of the beach has the highest erosion rates (up to -1 ft/yr at transect 289). From the December 2005 aerial photographs, there is no beach at transects 292 -300, only exposed limestone from the water line to the vegetation line.

Previous studies (Hwang, 1981; Sea Engineering, 1988) found similar trends in shoreline change for One‘ula Beach.

For more information see: <http://www.soest.hawaii.edu/asp/coasts/oahu/index.asp>

¹ Hwang, D. (1981) "Beach changes on O‘ahu as revealed by aerial photographs", State of Hawaii, Department of Planning and Economic Development.

² Sea Engineering, Inc. (1988) "O‘ahu shoreline study", City and County of Honolulu, Department of Land Utilization.

Keywords:

O‘ahu; One‘ula Beach