Majors Bay, Kauai, Hawaii

HISTORICAL SHORELINES

- Red: 1972
- Pink: 1980
- Blue: 1988
- Gray: 1991
- Green: 1995
- Yellow: 2000
- Orange: 2005
- White: 2010

EMERGENCY SHORE REMARKS

- Red: 1972
- Pink: 1980
- Blue: 1988
- Gray: 1991
- Green: 1995
- Yellow: 2000
- Orange: 2005
- White: 2010

SHORELINE CHANGE RATES

- Yellow: Accumulation
- Black: Erosion

AREA DESCRIPTION

Majors Bay study area (transects 442 - 636) is located in the southwest shore of Kauai on the west side of the Pacific Missile Range (PMR) area and is bounded to the north by Pacific Missile Range Airport (PMRA) and to the south by Kokole Point. The coastline is composed of white carbonate sand and vegetated dunes. The study area is impacted by swell from the north and west during winter and spring months, swell from the west and south during the summer as well as prevalent trade winds. The general portion of the area is exposed to 0.3 - 0.7 m waves.

This study area is a section of a continuous sandy beach which runs from Kikiaola Small Boat Harbor through Nakoa and Majors Bay. Overall, the Majors Bay study area is experiencing accretion at an average rate of 1.1 ft/yr. The southern portion (transects 442 - 520) is accreting at an average rate of 0.9 ft/yr. The northern portion of the study area (transects 522 - 636) is experiencing erosion at an average rate of 0.6 ft/yr. Previous studies did not analyze the Majors Bay study area shoreline.

Majors Bay study area is bounded to the north by the Pacific Missile Range Airstrip (PMRA), to the southeast by the Mana Plain. The shoreline exposure of the Mana Plain. The study area is bounded to the north by hard shoreline fronting the Pacific Missile Range Airstrip (PMRA), to the east by the Pacific Missile Range (PMR) area, and to the south by Kokole Point. The coastline is composed of white carbonate sand and vegetated dunes. The study area is impacted by swell from the north and west during winter and spring months, swell from the west and south during the summer as well as prevalent trade winds. The general portion of the area is exposed to 0.3 - 0.7 m waves.

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