Shoreline Change (1957–2016) Goodnews Bay, Alaska

161°36'W

5"N

REPORT OF INVESTIGATIONS 2020-10 Overbeck and others, 2020 GOODNEWS BAY doi.org/10.14509/30552

161°34'30"W



59°6'45"N

DUB REGIONICAL & GEOMMENT

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

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Projection: NAD83 UTM Zone 4N. Orthoimagery available from elevation.alaska.gov Shorelines represent the land-water interface. Shorelines were delineated from historical photographs collected between 1957 and 2016. Using the Digital Shoreline Analysis System (DSAS) developed by the U.S. Geological Survey, the measured distance between shorelines through time determines the linear rate of shoreline change at shore-perpendicular transects. The length of shoreline change envelope at each transect location indicates the distance between the nearest and farthest shorelines between 1957 and 2016. The shoreline change envelope is colored by the shoreline change rate (meters/year and feet/year), with hot colors representing erosion and cool colors representing accretion. Linear rates of shoreline change are simplified and do not accurately reflect shoreline erosion and accretion at all locations.

161°34'30"W

This work is part of the Coastal Infrastructure Erosion Vulnerability Assessment project funded by the Denali Commission Environmentally Threatened Communities Grant Program. Data used to conduct the analysis were paid for by the State of Alaska and the Federal Emergency Management Agency in the 2018 update to the Alaska State Hazard Mitigation Plan.

59°7'15"N