

# Shoreline Change (1950–2015)

## Shaktoolik, Alaska

REPORT OF INVESTIGATIONS 2020-10  
Overbeck and others, 2020  
SHAKTOOLIK  
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North Panel



South Panel



Projection: NAD83 UTM Zone 4N. Orthoimagery available from [elevation.alaska.gov](https://elevation.alaska.gov)

### STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

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Shorelines represent the land-water interface. Shorelines were delineated from historical photographs collected between 1950 and 2015. 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 1950 and 2015. 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.

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