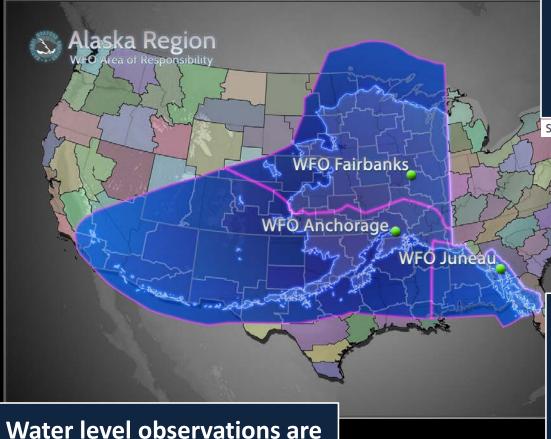




extremely limited

NWS Alaska Water Level Challenges



Alaska has <u>over 35% of the</u>
<u>nation's coastline</u>
(33,904 statute miles)

Source: NOAA Shoreline Website at shoreline.noaa.gov/faqs.html?faq=2.

Federal, state, and village officials have identified 31 villages that face imminent coastal flooding and erosion threats

GAO-09-551 Relocation of Alaska Native Villages



NWS Alaska Water Level Needs

NWS Alaska's #1 Water Level Need:

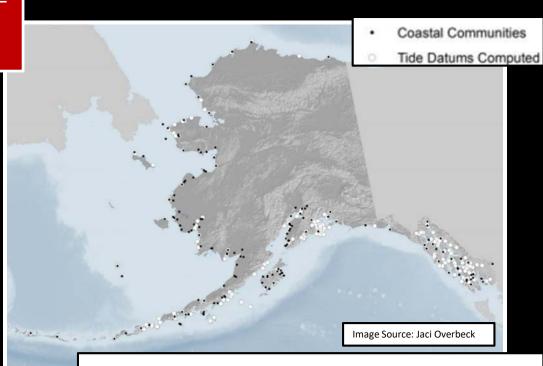
Good Tidal Datum along Alaska's
West Coast



Tidal Datum feed into NOAA coastal storm models



Enhance NWS ability to provide coastal hazard warnings to vulnerable AK communities



Communities without tidal datums shown in black, locations with established tidal datums shown in white.



NWS Alaska Water Level Needs

Additional Needs:

- Any additional tidal stations near vulnerable communities
 - Accuracy of tidal stations within a few inches
- Community observations and impacts to be documented for future storms

Hazards September 2005 Coastal Flooding

Impacts

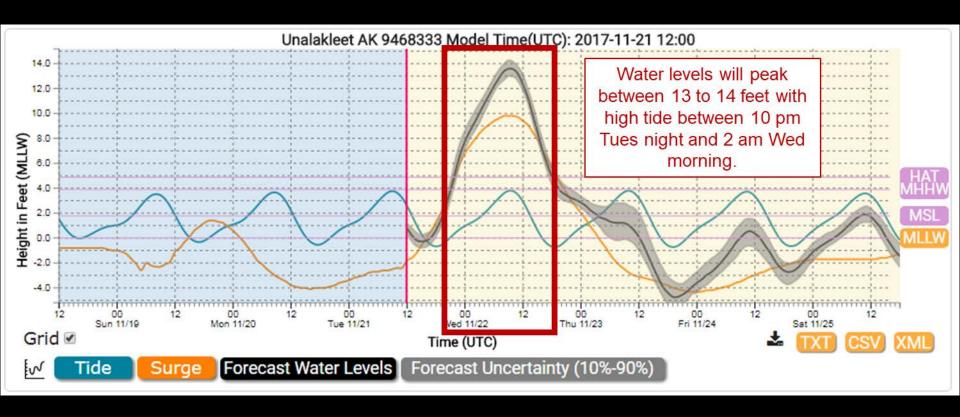




Fuel tanks flooded or at risk from erosion



Example from Unalakleet, AK – Nov 2017





Example from Unalakleet, AK – Nov 2017





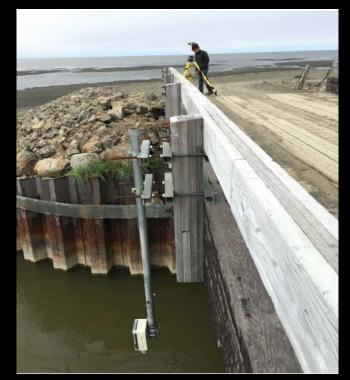
NWS Alaska Investment in Water Level Observations



Ed Plumb
(Fairbanks
WCM) showing
the new
NWLON gage to
children in
Unalakleet

NWS Regional Director at the Unalakleet tide gauge ribbon cutting ceremony





iGage re-installation at Tununak by NWS forecaster Jason Ahsenmacher