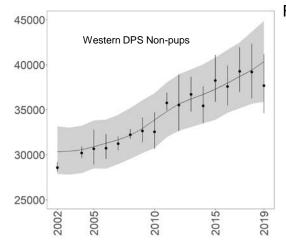
AFSC Steller sea lion abundance update and plans for 2021

Tom GelattAlaska Ecosystem Program, Marine Mammal Lab,
Alaska Fisheries Science Center, NOAA Fisheries



Feb 4 2020



Count

2020 Alaska Field Work Summary – Steller sea lion

- June July Aerial survey of Aleutian Island haulouts and rookeries west of Shumgin Islands
 - May Tiglax cruise to Ugamak Island: Deploy remote cameras for sighting branded animals and reproductive behavior (vital rates study)
 - June charter cruise in eastern Aleutian Islands: Sight branded animals in Krenitzen Islands and Amak Island/Sea Lion Rock (vital rates study)
 - June/July Tiglax cruise to central/western Aleutian Islands: UAS and ground surveys for counts (abundance/monitoring), pup handling for condition and contaminant studies, remote camera maintenance & download (vital rates), scat collection (diet), sight branded animals (vital rates)

CANCELLED

CANCELLED

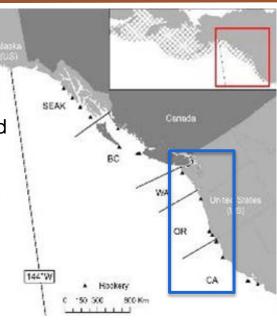
CANCELLED

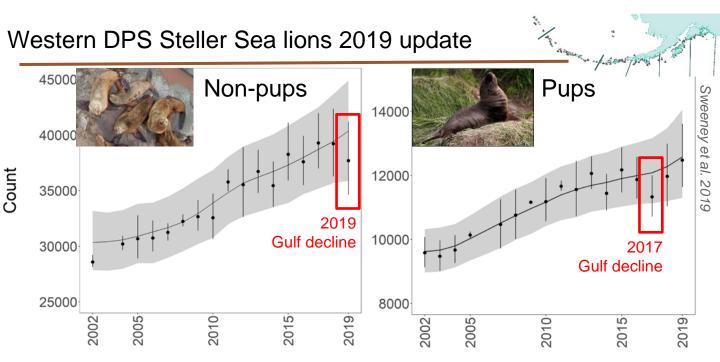
2020 West Coast Field Work Summary - Steller sea lion



July/August: UAS surveys for counts (abundance and monitoring) at WA, OR and CA rookeries and haulouts; resighting of branded Steller sea lions for vital rates.

3,209 pups and 3,814 non-pups counted; WA, OR and CA pup counts stable except Orford Reef, OR increased 29% from 2019

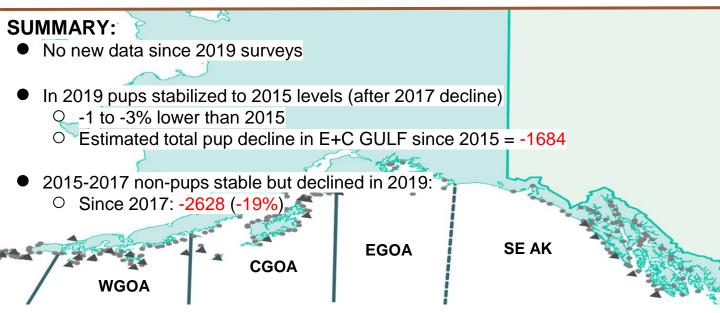




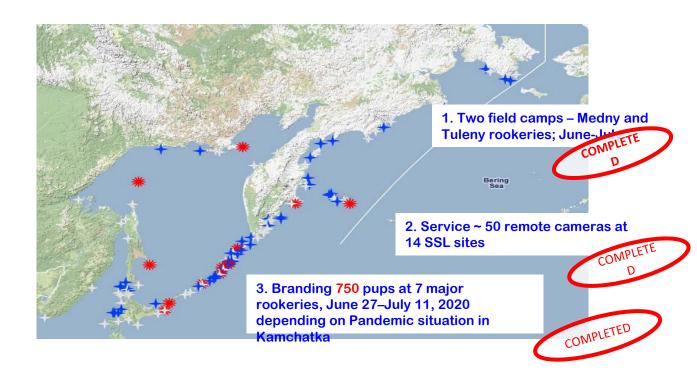
Increased 1.82%/yr and 1.63%/yr, respectively, since 2002



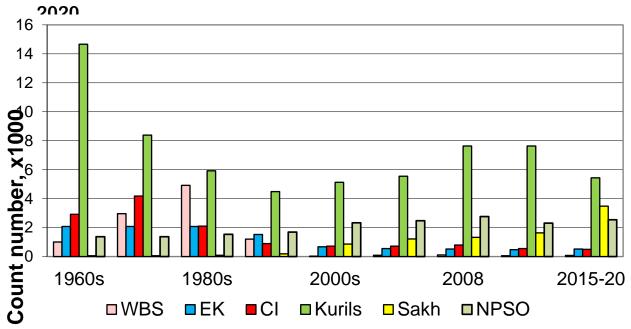
Gulf of Alaska Steller Sea Lions - Summary



SSL Russian Field Research Plan 2020 - North Pacific Wildlife Consulting (NOAA Fisheries funding)



Steller sea lion total abundance at all Russian rookeries 1960 -



On Going Projects – Steller sea lion

- •Sea Lion Foraging Behavior Draft manuscript examining attendance and activity budget data of adult female Steller sea lions.
- •Completion of a NOAA Tech Memo summarizing sea lion population trends between 2013 2019.
- •Sea Lion Health and Condition Draft manuscript examining pup morphometrics across the range. And collaborative projects with UAF (L. Rea).
- •Gulf of Alaska Integrated Modeling Project Evaluate impacts of Environmental anomalies to SSL using the 2013 2016 heatwave as an experiment.
- •Development of an Al program to automate the review of remote camera images taken from western Aleutian rookeries.

2021 Field Work Summary – Steller sea lion







May Tiglax cruise to Ugamak Island: Deploy remote cameras for sighting branded animals and reproductive behavior (vital rates study)



June charter cruise in eastern Aleutian Islands: Sight branded animals in Krenitzen Islands and Amak Island/Sea Lion Rock (vital rates study)



June/July Tiglax cruise to central/western Aleutian Islands: UAS and ground surveys for counts (abundance/monitoring), pup handling for condition and contaminant studies, remote camera maintenance & download (vital rates), scat collection (diet), sight branded animals (vital rates)



June/July UAV survey of Walrus Is. conducted by St. Paul Is. Tribal Government



2021 Field Work Summary – Northern fur seal









 Pribilof Island August Shearing/pup survey: mark-recapture pup production study, pup weights, dead pup counts, scat collection



Pribilof Islands tag resights: Deploy re-sighters for longer term tag resight on St.
 Paul and St. George



 Pribilof Islands September tagging trip: Tag adult females and pups for demographic studies and to assist St. Paul Tribal Government Eco researchers

