

2022 ALASKA SEABIRD UPDATE



Kodiak/Aleutian Subsistence RAC Meeting 29-30 March 2023

Robb Kaler & Liz Labunski - USFWS Migratory Bird Management, Seabird Program
Gay Sheffield - UAF/Alaska Sea Grant, Marine Advisory Program
Brandon Ahmasuk - Kawerak Inc.

Stacia Backensto - National Park Service

Julia Parrish, Tim Jones & Jackie Lindsey - Coast Observation and Seabird Survey Team (COASST)

Heather Renner - USFWS Alaska Maritime NWR

Barbara Bodenstein & Bob Dusek - USGS National Wildlife Health Center Caroline Van Hemert & Matt Smith - USGS Alaska Science Center























Quyana! We work in the lands & waters of

Inupiaq, Siberian Yupik, and Yupik peoples (Bering Strait Region)
Yup'ik, Alutiiq, Aleut (Bering Sea & Aleutian Islands)
Alutiiq, Chugach, Eyak (Northern Gulf of Alaska)
Tlingit, Tsimshian, Haida (Southern Gulf of Alaska)





















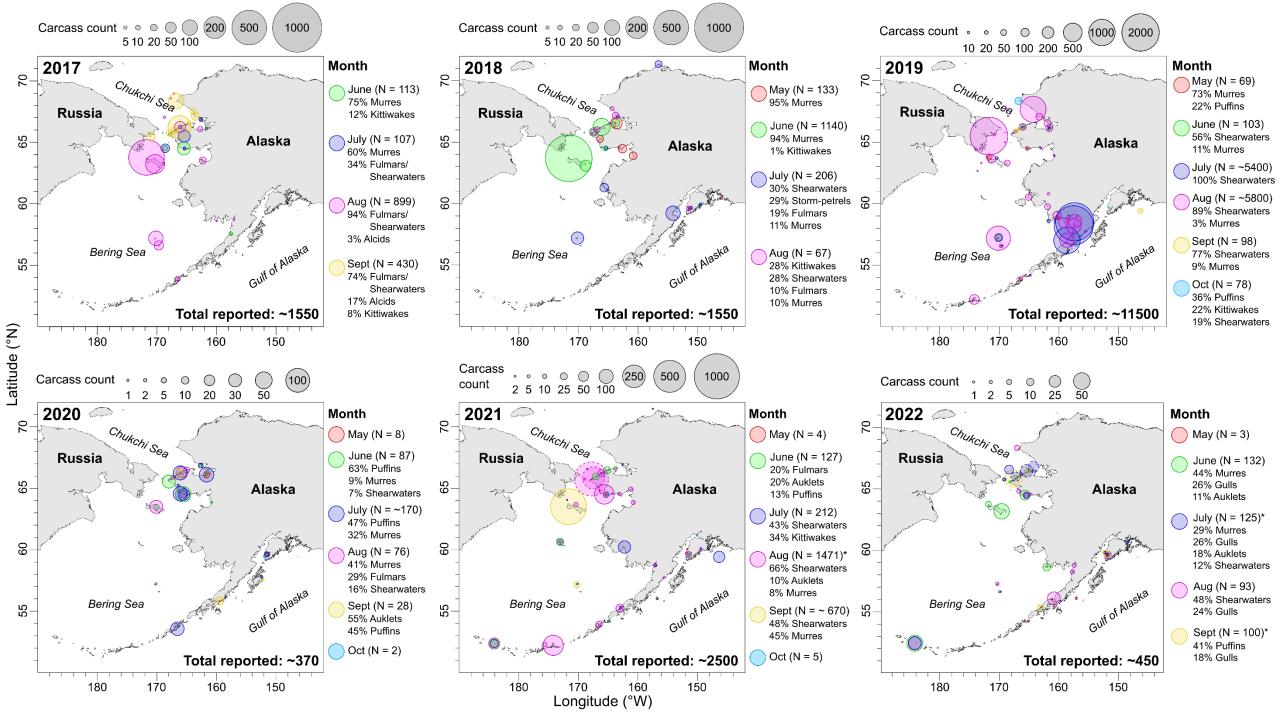






Seabird die-offs

- Alaska die-offs rare prior to 2015, now annual?
- Species at all trophic levels affected, some worse
 - Shearwaters in 2019 SEBS
 - Thick-billed Murres in the Alaska Coastal Current 2018
 - Common Murres in GOA 2014/2015
- Public health concern for coastal communities





2017-2021 Results: necropsy, disease and HABs testing

Summary of Bering and Chukchi Seas seabird necropsies, 2017-2021. More than 14,000 dead seabirds were reported and a total of 117 carcasses were examined. 92 cases had emaciation identified as the Cause Of Death (COD), seven cases where COD was undetermined, and 17 cases where COD was determined as "Other", which included predation, trauma, encephalitis, peritonitis, and bacterial infection. Low Pathogenic Avian Influenza (n=4) and saxitoxin (n=15) were also detected; however, the virus and biotoxin were not determined to be the COD except for one case in 2020 where saxitoxin toxicosis was suspected. Data are summarized from Bodenstein et el. (2022).

		2017	2018	2019	2020	2021	Total	
Total Reported		>1,600	>1,200	>9,000	>330	>2,200	>14,330	
Total Examined		19	25	39	20	14	117	
Reported Cause of Death								
	Emaciation	17	19	31	13	12	92	
	Undetermined	0	3	2	1	1	7	
	Other	2	3	6	6	1	18	
Avian Influenza Detected		0	2	0	1	1	4	
Saxitoxin Detected		11	BDL*	3	1 ^{&}	BDL*	15	

^{*} BDL - Below detection limits for the laboratory test used.

[&]amp; Saxitoxin toxicosis was also suspected to be the cause of death.























FISH & WILDLIFE SERVICE

Alaska Maritime National Wildlife Refuge

2022 Seabird Report Card



													A) E	ALL S
Region	Annual monitoring site	Red-faced cormorants	Glaucous- winged gulls	Common murres	Thick- billed murres	Horned puffins	Tufted puffins	Red- legged kittiwakes	Black- legged kittiwakes	Northern fulmar	Fork-tailed storm- petrels	Leach's storm- petrels	Parakeet auklets	Least auklets
Chukchi Sea	Cape Lisburne													
g Sea	St. George			(§ ô)										٥٥
Bering Sea	St. Paul	(i)		٥٥				٥٥	(i)					
Islands	Buldir		٥٥		٥٥	<u></u>	\odot	٥٥	٥٥		\odot	٥٥	٥٥	٥٥
Aleutian Islands	Aiktak		٥٥	٥٥	٥٥	٥٥٥	٥٥				<u></u>	٥٥		
Alaska Penin.	Chowiet	\odot	٥٥	٥٥	٥٥	٥٥٥	٥٥		٥٥					
Alaska	East Amatuli		٥٥	<u></u>					٥٥٥		\odot			
Gulf of Alaska	St. Lazaria		٥٥	<u></u>	٥٥						٥٥	٥٥		





Eggs represent overall productivity relative to the long-term average. White eggs indicate productivity derived from monitoring data; colored eggs indicate productivity based on anecdotal observations.









Primarily zooplankton eaters >>>

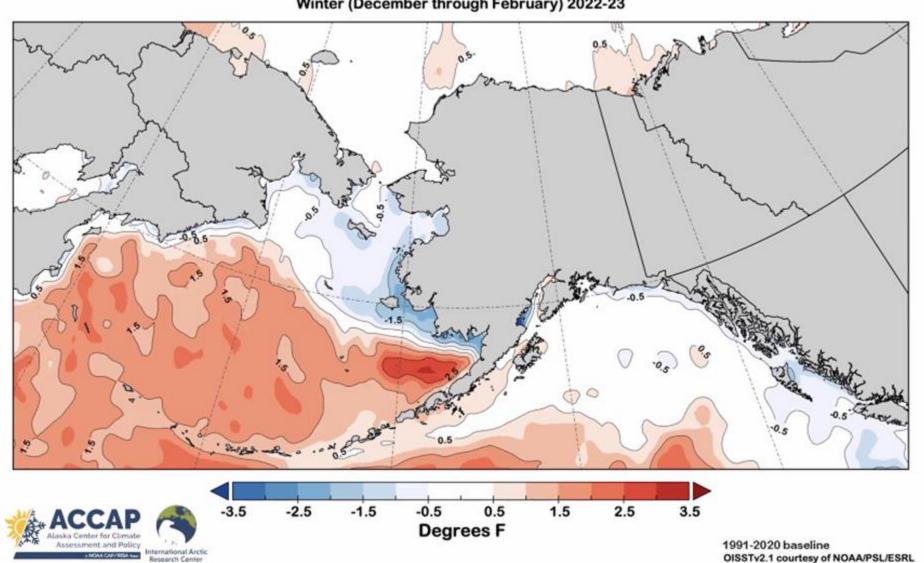
Reproductive rebounds in 2022

8 sites

Winter 2022-23 Ocean Temperatures

Average Sea Surface Temperature Departure from Normal

Winter (December through February) 2022-23











AMBCC Seabird Subcommittee [Fall 2021 Meeting]

Robb Kaler (Acting Chair, USFWS)

Gayla Hoseth (Bristol Bay Region)

Jack Fagerstrom & Brandon Ahmasuk (Bering Straits/Norton Sound Region)

Coral Chernoff (Kodiak Archipelago Region

Cyrus Harris (Northwest Arctic Region)

Jennifer Hooper (Yukon-Kuskokwim Delta Region)

???

2022 Regional Information & Concerns

Sledge Island (west of Nome): Numbers of seabirds (e.g., murres, feed on fish) were **Poor**

Bluff (east of Nome): Numbers of seabirds (e.g., murres) were Good

St. Paul & St. George Islands: Numbers of seabirds and breeding effort were Normal

St. Lawrence Island: Numbers of auklet (feed on plankton) were Poor

Cape Lisburne: New approach using time-lapse cameras was stymied by bears so Unknown

Concern regarding hatchery salmon

Shishmaref (Sarichef Island) krill 30 September 2022 following 17 September landfall of Typhoon Merbok

NOAA Seabird Bycatch - most take are Northern Fulmars

(murres bycatch is minimal)





















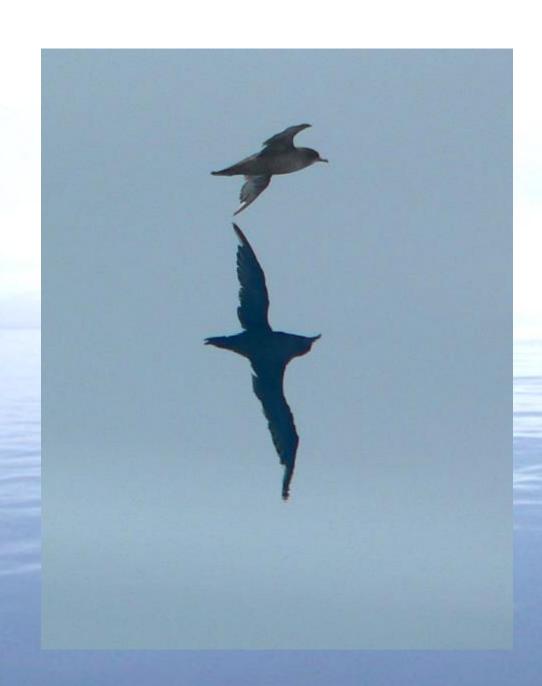


Concerns for Seabirds









Quyana

QUESTIONS

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