

BSFRF Crab Research Update

Crab Plan Team – May 14, 2026



Scott Goodman
Executive Director

*Photo Credits:
C. Lescher*

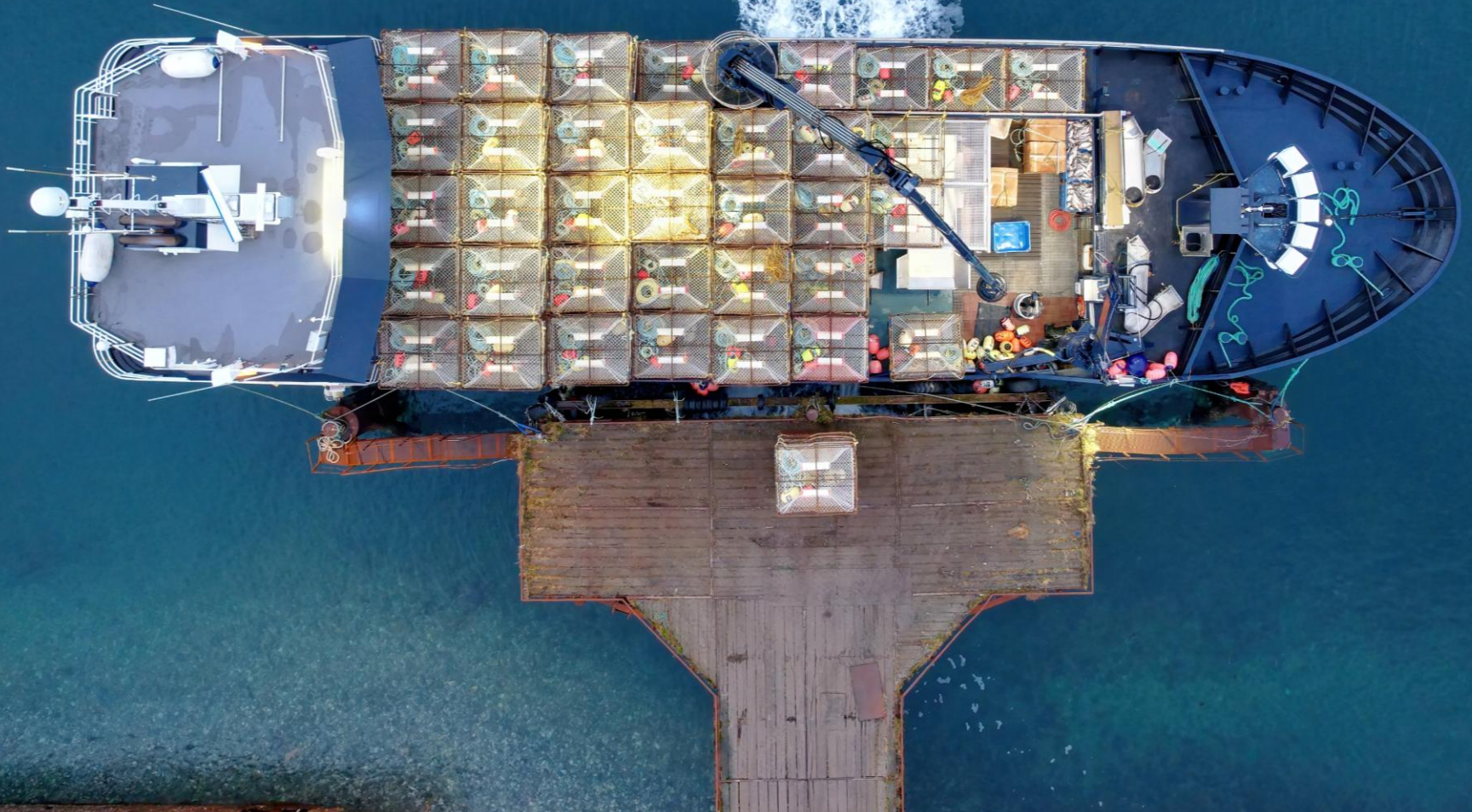
Projects BSFRF is working on:

- CPS surveys (BBRKC, CPS3 and beyond)
- OPS survey (Opilio, OPS1 and beyond)
- Tags – continuing w/ partners (BBRKC, other)
- Supporting Synthesis of Information
- Tanner Crab PhD and related research
- Opilio MSE – (steering committee progress)
- **Substantial Disaster Relief and Other Research**
 - **Current 3 direct grants, partnering on others**



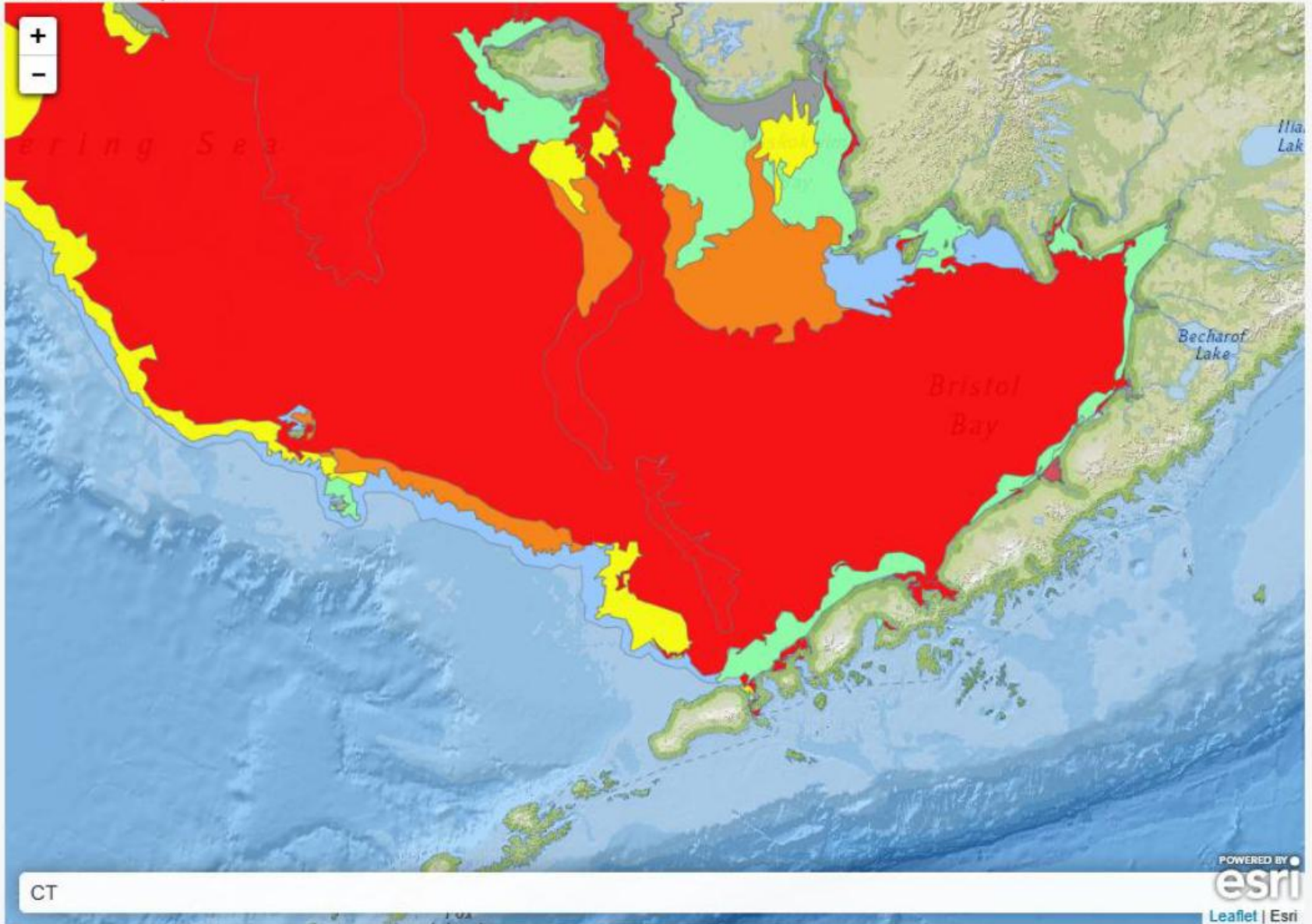
➤ CPS3 Cancelled after trying to wait out ICE

- All 3 boats staged, loaded, ready in DH for a week
- Cooperation with all partners, ADFG/NOAA/others was critical



Ice Analysis Layer: Concentration Stage Forecast [Legend](#)

CT created: 04:08 Tue Apr 07



Zoomable Maps

Standard Ice Analysis & Forecast Maps

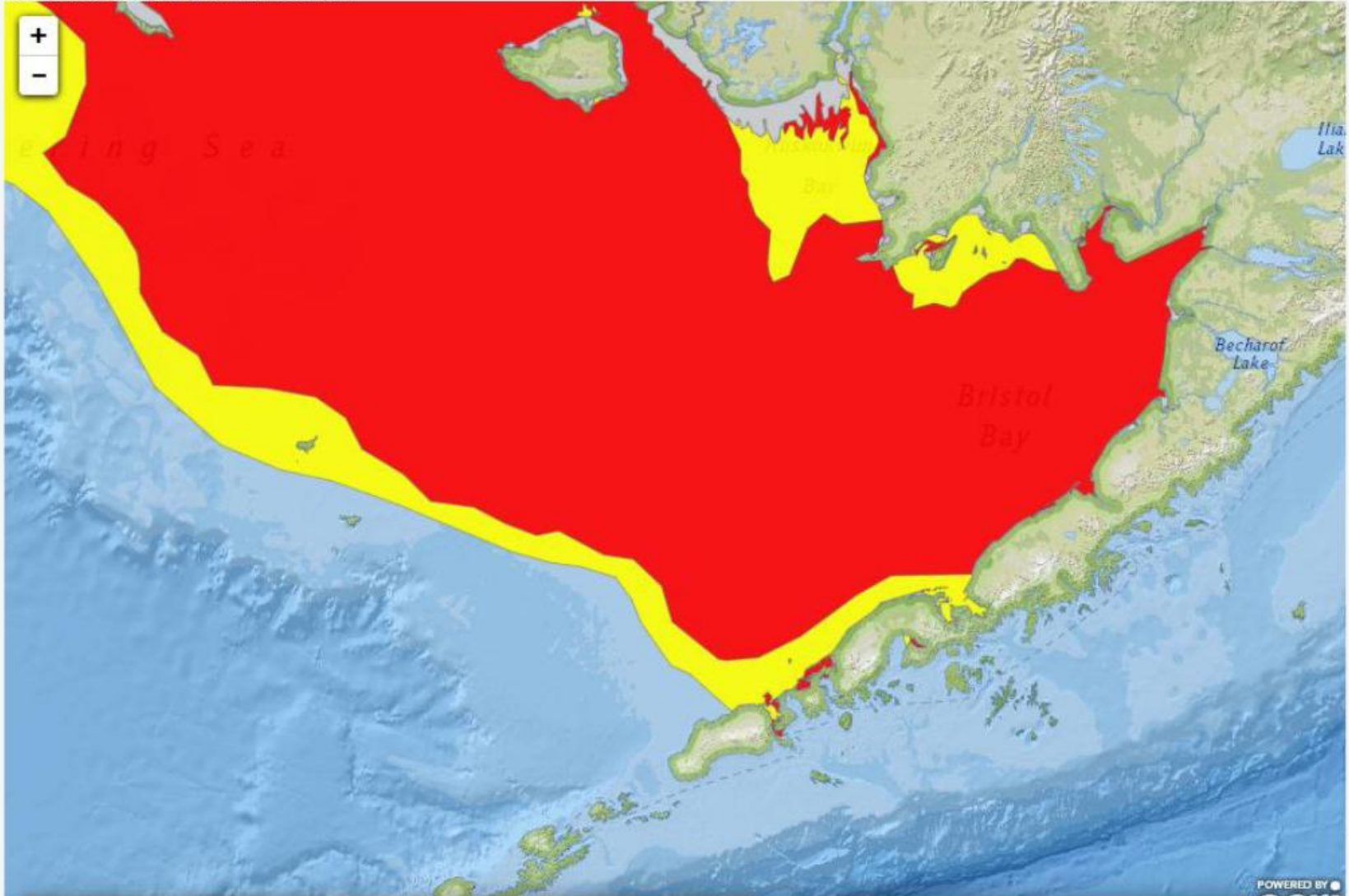
Sea Ice Forecast

3 Month Sea Ice Outlook

Additional Satellite Resources

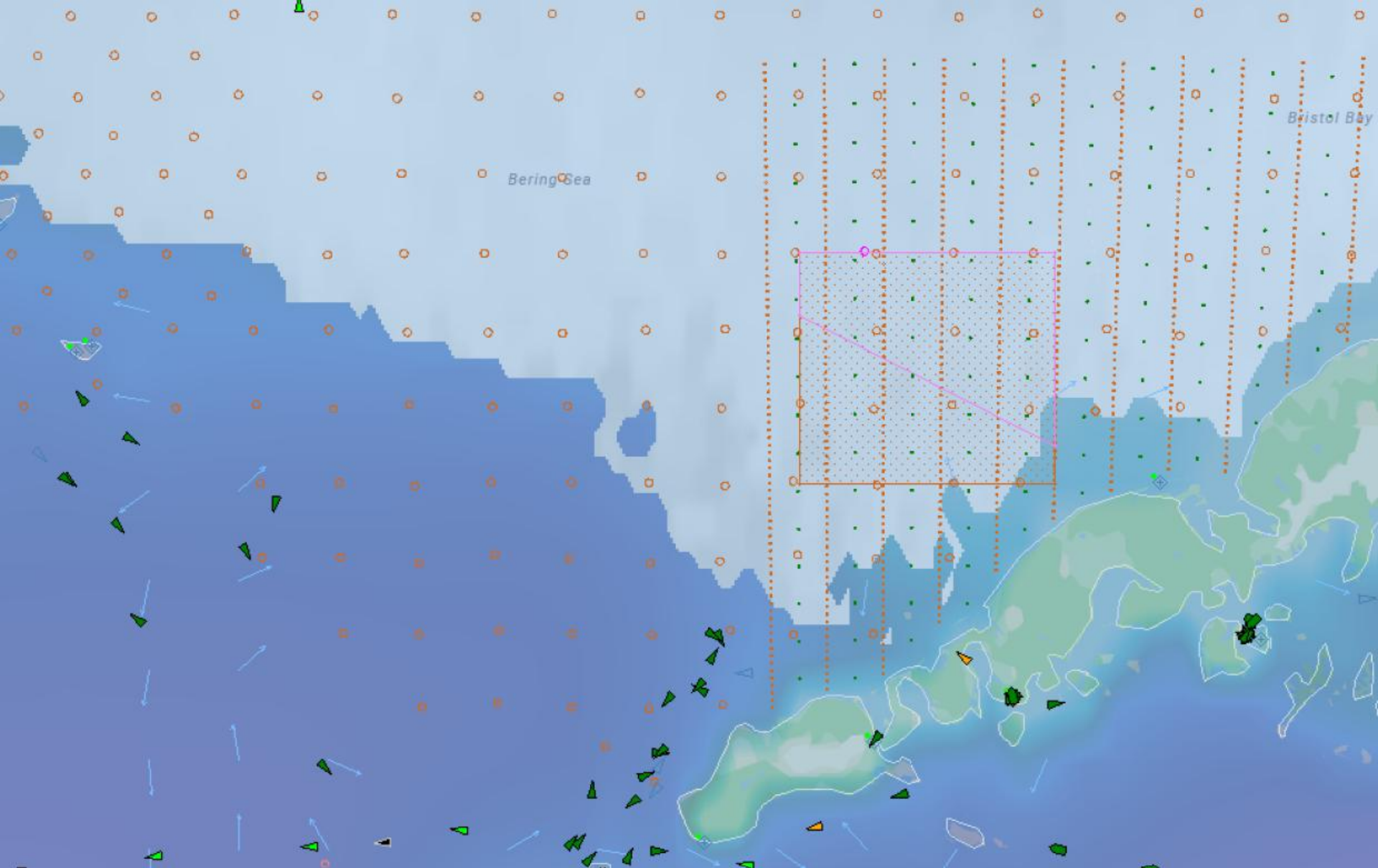
Ice Analysis Layer: Concentration Stage Forecast [Legend](#)

FCST created: 03:53 Mon Apr 06; valid for Sat Apr 11



FCST

POWERED BY
esri
Leaflet | Esri



- Vessels, gear, and people de-staged 3/23-3/26
- Save remaining resources for upcoming projects



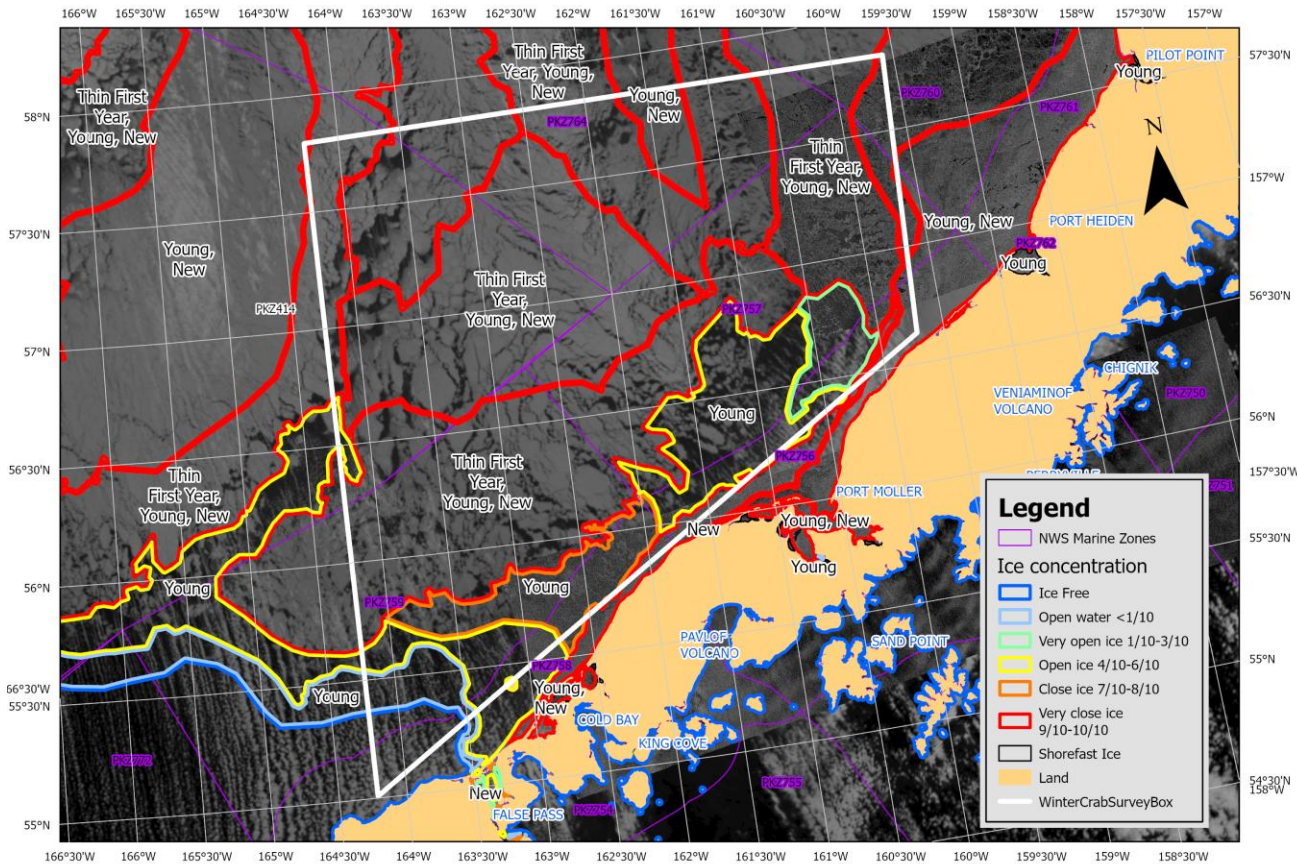
3/16/2026 1:01 PM

To: Leah Zacher - NOAA Federal <leah.zacher@noaa.gov>, cory@alaskacrabbers.org, sgoodman@nrccorp.com, mshipley@nrccorp.com,

Good afternoon,

Today's key points:

- Northerly winds continue through the week
- Pack ice will continue to encroach on the Alaska Peninsula
- Long term guidance suggests no change in meteorological pattern anytime soon (continued northerly winds)
- We are nearing record extent for the eastern Bering Sea/Bristol Bay in the last 30 years



0 25 50 100 Nautical_Mile

NOAA-21 Infrared satellite image
16 March 2026 1348 UTC

Winter Spring BBRKC surveys -

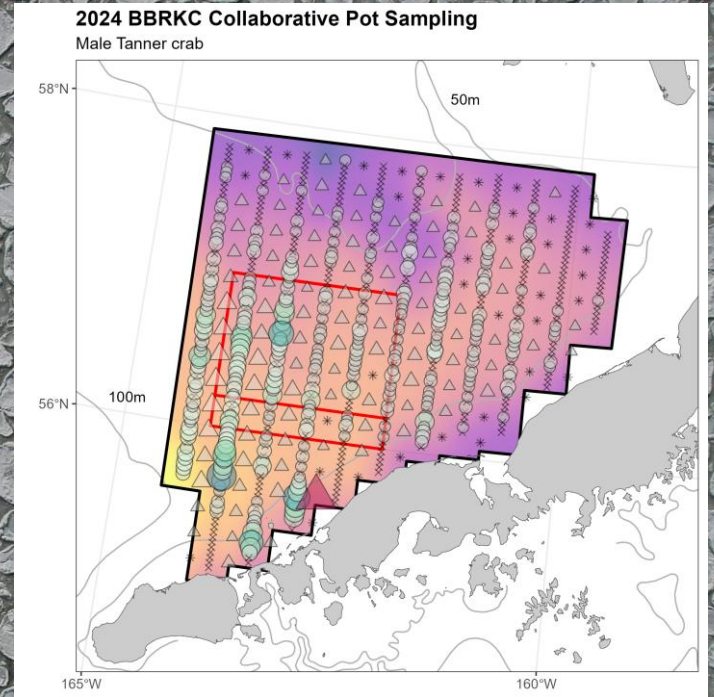
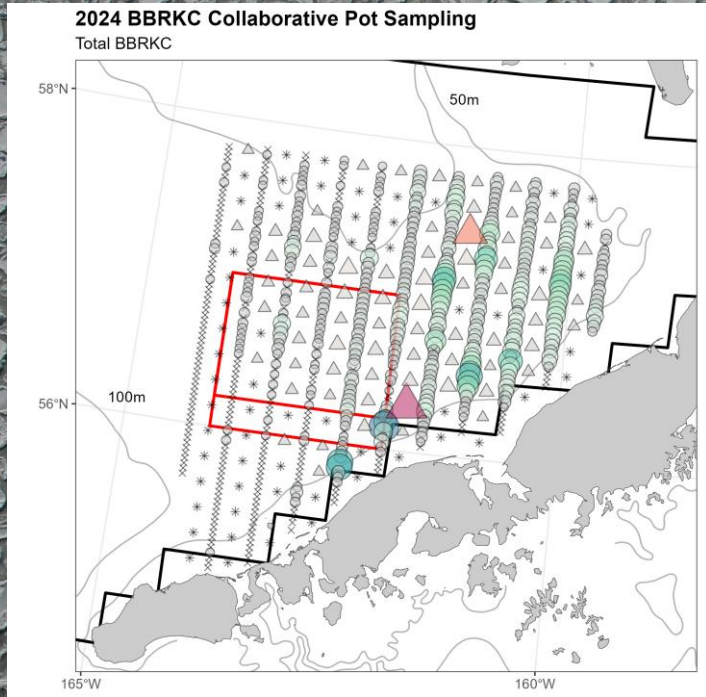
- Current plans are adjusting to missing 2025 & 2026
- Plans going forward include 2 additional iterations

BBRKC Field Work

Year	Project	Vessels	Cost \$M	Source
2023	CPS1	2	1.00	ADFG/NOAA
2024	CPS2	3	1.25	BSFRF CDS
2025				
2026				
2027	CPS3	3	1.25	BSFRF DR
2028	CPS4	3	1.25	BSFRF DR



Winter Spring BBRKC surveys -



Summary Item	CPS1 - 2023		CPS2 - 2024	
	POT	TRW	POT	TRW
Pot Lifts/Tows	637	0	646	128
RKC Catch	10,191		6,415	496
RKC Sex Ratio (M/F)	77/23	<--->	76/24	44/56
Bairdi Catch	670		1,009	928
Bairdi Sex Ratio (M/F)	83/17	<--->	99/1	68/32

Synthesis and summary of available information to inform options

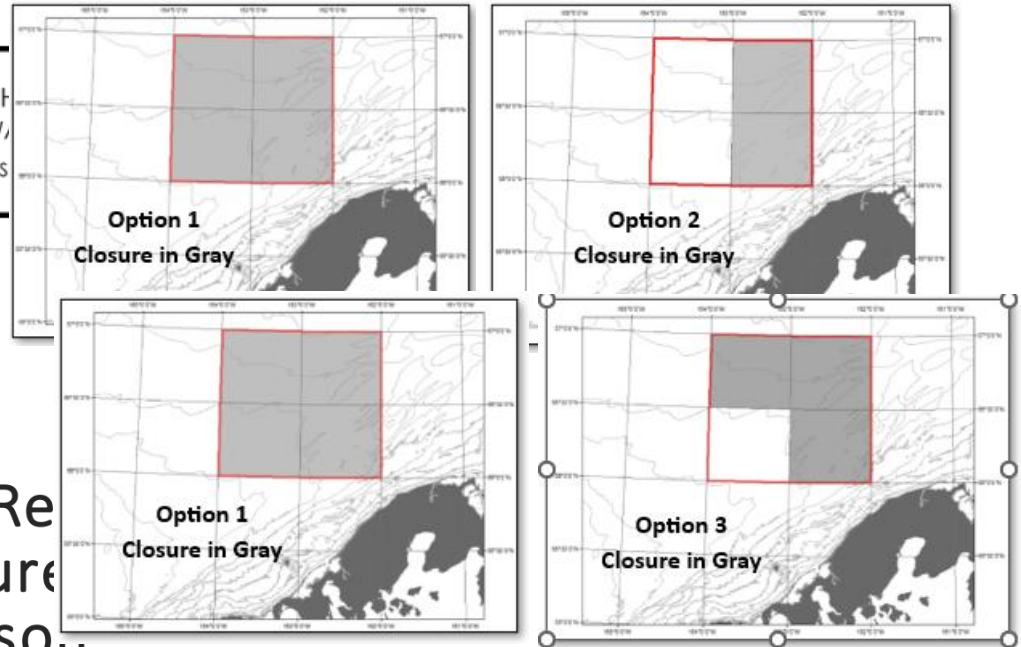
Sharing and cooperation with pollock industry

- BSFRF plans to share/help coordinate options again as in A-season 2026



November 12, 2025

RE: Suggested Options for BBR Closure Areas for PTR, 2026 A-Season



Bering Sea Pollock Industry Request on Dynamic Spatial Closure Measures for 2026 A Season

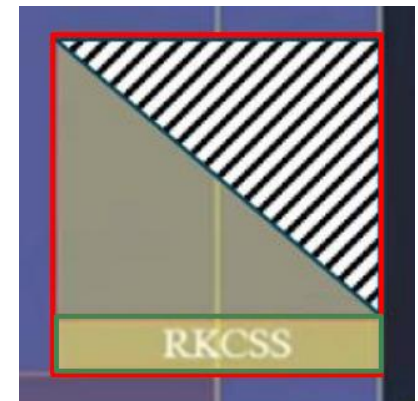
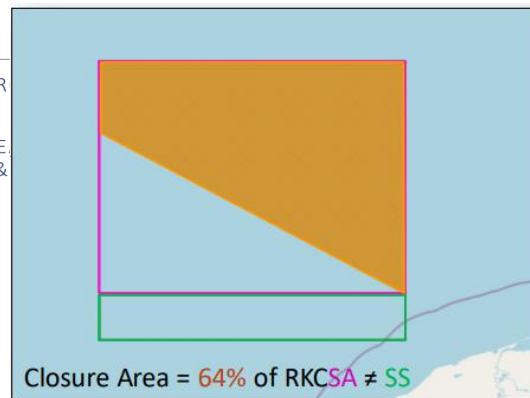
NPFMC MEETING – DECEMBER 2025 – B9

SUSIE ZAGORSKI - AFA CV IC MANAGER AND INSHORE IPA REPRESENTATIVE

CAITLIN YEAGER – AT SEA PROCESSORS ASSOCIATION REPRESENTATIVE

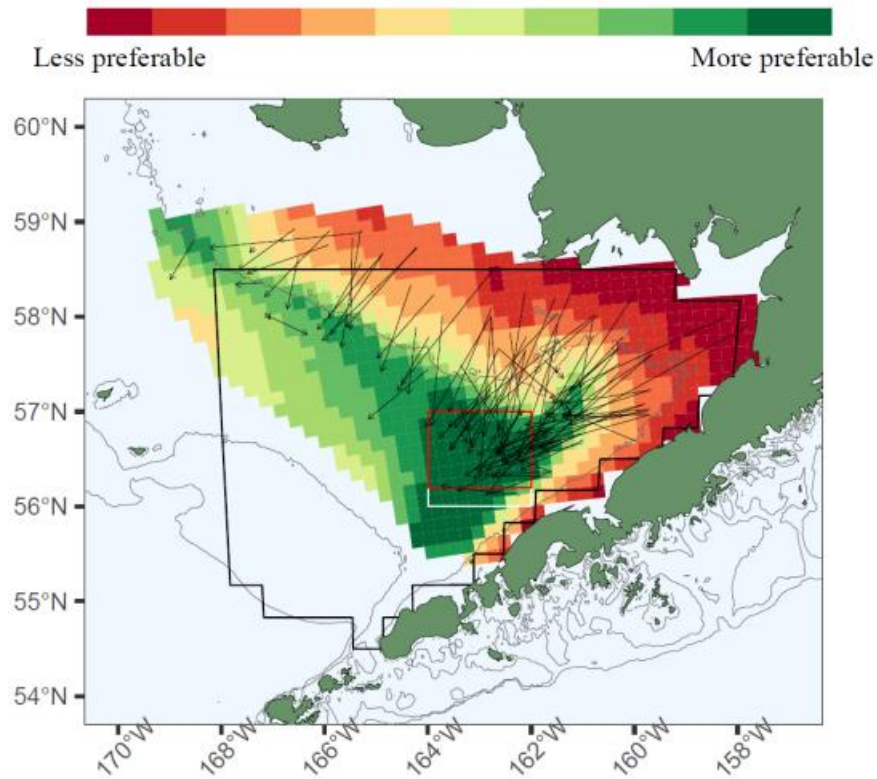
JAMES MIZE – MOTHERSHIP IPA REPRESENTATIVE

AUSTIN ESTABROOKS – AT SEA PROCESSORS ASSOCIATION & REPRESENTATIVE



Support of Dr. Sean Hardison's research

- BSFRF has approved direct support of this research for 2026, likely beyond



Opilio Pot Sampling 1 (OPS1)

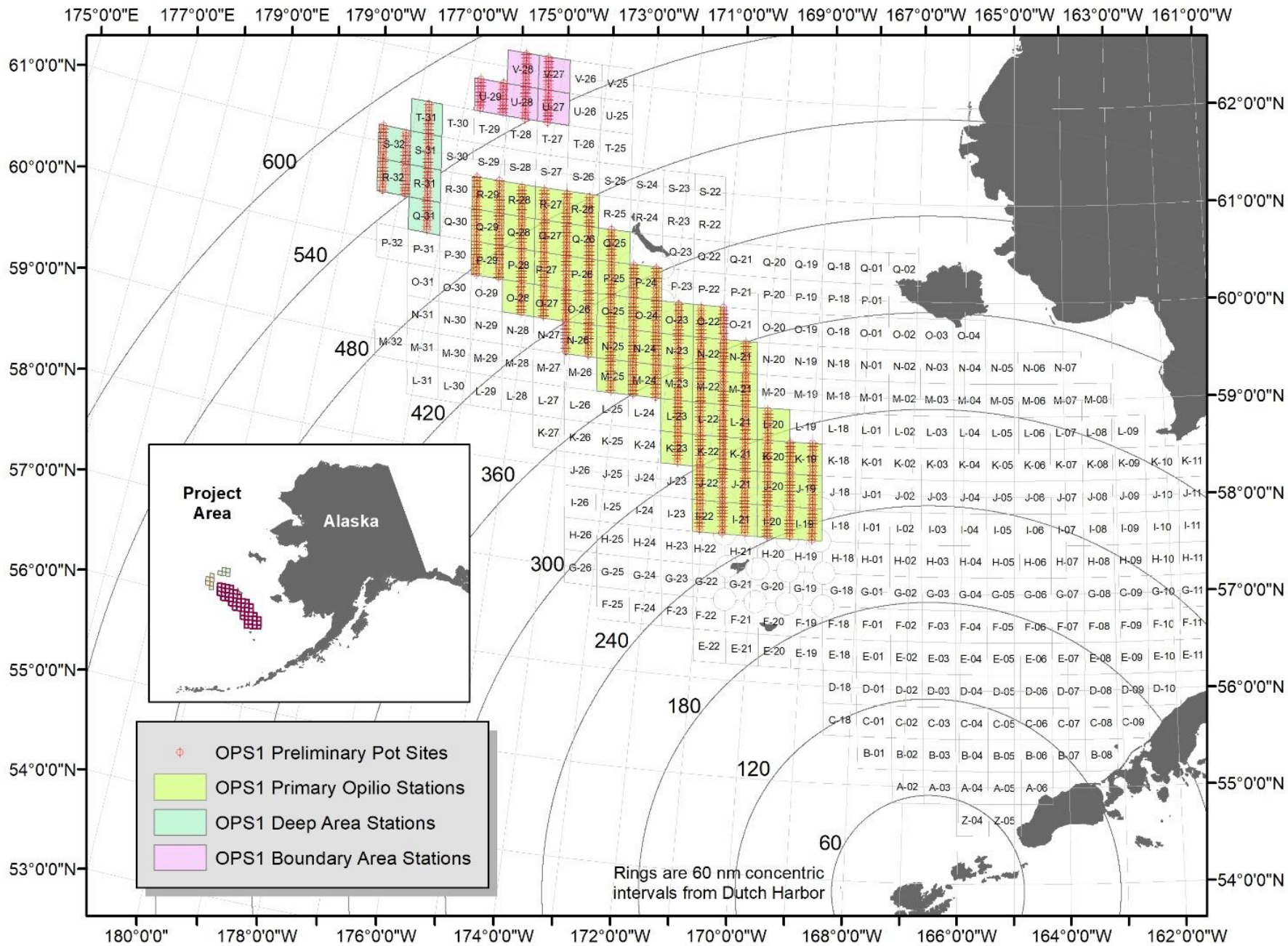
[may include additional effort for NMFS survey gear testing]

Project online for August 2026

Objectives, sampling area, logistics,
permitting – all complete

RFP for Crab
Charters
ASAP



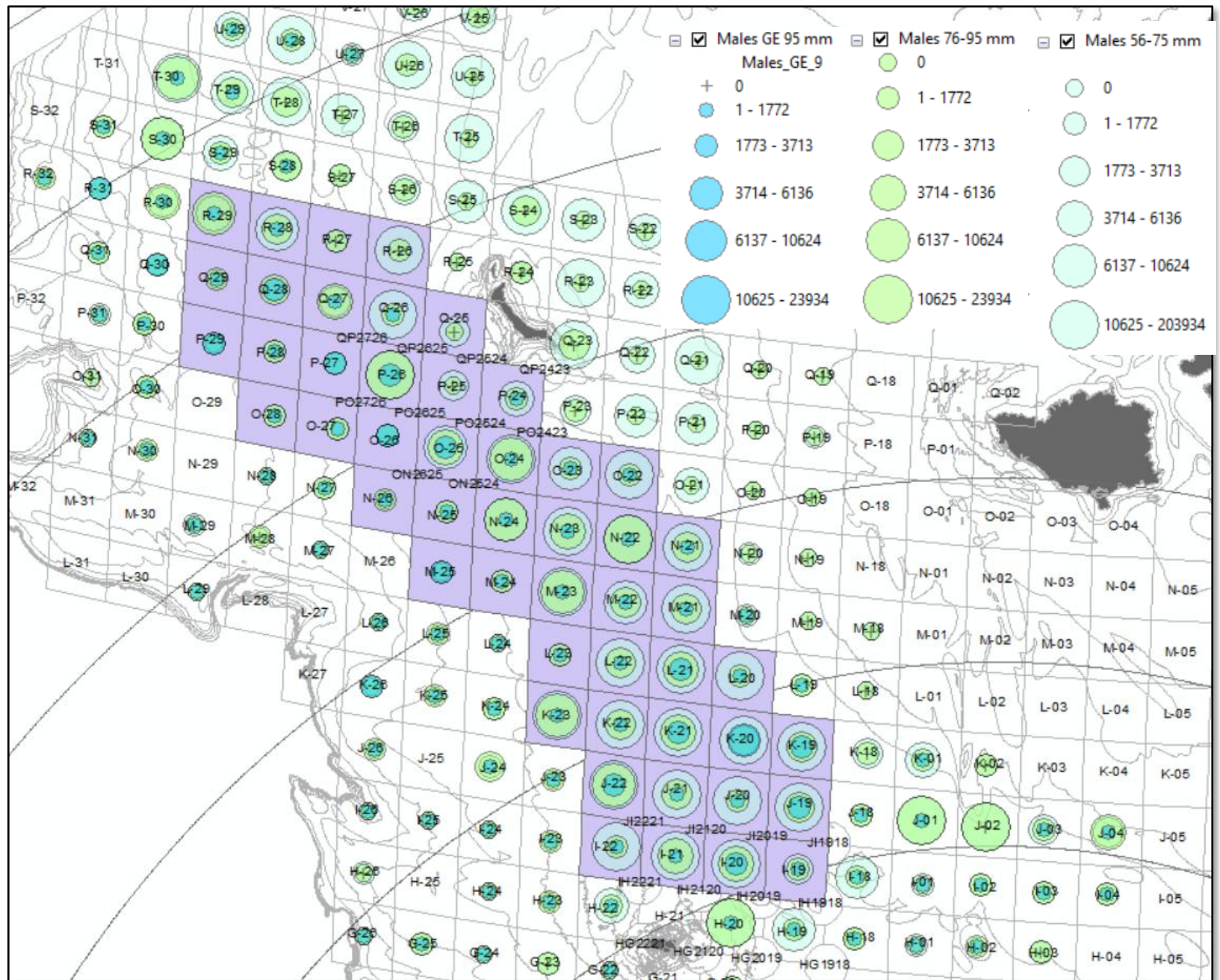


Opilio Pot Sampling 1 (OPS1)

Objectives:

- Validate/calibrate Opilio CPUE from trawl/pot sampling
- Increased sampling density to examine variance
- Targeted sampling at fine scale in areas (in/out of survey area)
- Index area stations in deep water, EBS/NBS boundary
- Collection of chela measurements, higher spatial resolution
- Collect bottom temperature information over OPS area
- Secondary – cameras in pots, bait tests, tagging

RFP for Crab Charters ASAP



Coordination and progress with partners and our team:



*Science
Team*

Ms. Madison Heller-Shipley
Mr. Cory Lescher
Dr. Gordon Kruse
Dr. Tim Loher
Dr. Gary Stauffer
Mr. Scott Goodman

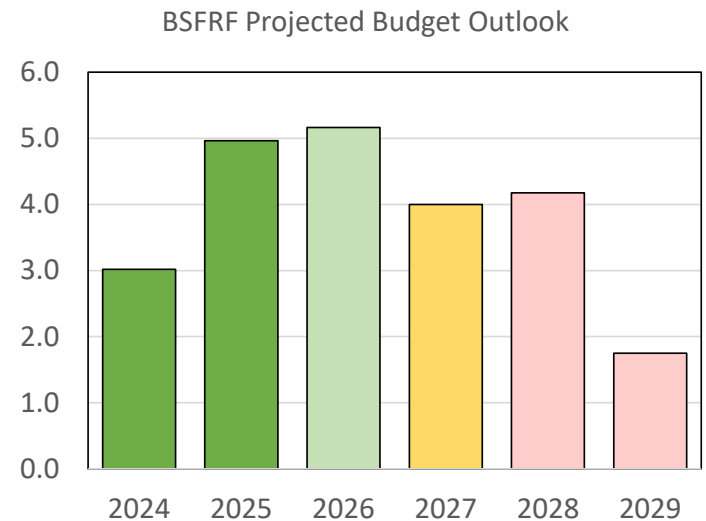
Continuing research options with partners - including:

- Collections for energetics
- Collections for disease samples
- Live holding/transport delivery
- Reciprocal tag placement (movement research)
- OA bottom water samples
- Habitat – cameras, new tech options
- Synthesis of available info (e.g. movement & seasonal distribution/bycatch considerations)
- Other new topics (hybrid prevalence, changing reproductive dynamics, etc.)

Disaster Relief Research Planning → Bairdi, Opilio and BBRKC

- Bairdi and BSS/BBR funds available w/ PSMFC grants
- BSFRF Research Strategy for 2025-2028
 - Several projects/charters for opilio/BBRKC

Year	CPSx	OPSx	CAMSLED	Other
2025				
2026				
2027				
2028				



- Coordinating w/NPRB, other special DR crab projects

Disaster Relief Research Planning → Opilio and BBRKC [through NPRB]

No.	Title	PI	Contact	Org	Requested	Funded
5056	CLRUP North- Chionoecetes Left-to-Right and Under Pressure in a changing NBS	Andrew Seitz	acseitz@alaska.edu	UAF	\$1,423,255	\$1,423,255
5063	Top-to-Bottom assessment of early life snow crab ecology in a melting northern Bering Sea	Jared Weems	jared.weems@alaska.gov	ADFG	\$1,384,914	\$1,384,914
5065	Understanding the link between Bristol Bay red king crab larval supply and recruitment strength	Ben Daly	ben.daly@alaska.gov	ADFG	\$1,011,705	\$750,000
5067	Understanding lost crab pot degradation and impacts on the Bristol Bay red king crab stock	Scott Goodman	sgoodman@nrccorp.com	BSFRF	\$1,178,960	\$1,178,960
5077	Metabolic costs of migration for Bering Sea snow crab in response to rapid regional warming	Trond Kristiansen	trondkr@faralloninstitute.org	Farallon Institute	\$708,033	\$708,033
5079	Population genomics of Bristol Bay red king crab for fishery management and enhancement	Kristen Gruenthal	kristen.gruenthal@alaska.gov	State of Alaska	550,968	\$550,968
Total of Requested and Funded					\$5,706,867	\$5,996,130

Disaster Relief Research Planning → Opilio and BBRKC [through NPRB]

No.	Title	PI	Contact	Org
5056	CLRUP North- Chionoecetes Left-to-Right and Under Pressure in a changing NBS	Andrew Seitz	acseitz@alaska.edu	UAF
5063	Top-to-Bottom assessment of early life snow crab ecology in a melting northern Bering Sea	Jared Weems	jared.weems@alaska.gov	ADFG
5065	Understanding the link between Bristol Bay red king crab larval supply and recruitment strength	Ben Daly	ben.daly@alaska.gov	ADFG
5067	Understanding lost crab pot degradation and impacts on the Bristol Bay red king crab stock	Scott Goodman	sgoodman@nrccorp.com	BSFRF
5077	Metabolic costs of migration for Bering Sea snow crab in response to rapid regional warming	Trond Kristiansen	trondkr@faralloninstitute.org	Farallon Institute
5079	Population genomics of Bristol Bay red king crab for fishery management and enhancement	Kristen Gruenthal	kristen.gruenthal@alaska.gov	State of Alaska

Simulated Loss of Crab Pots in Bristol Bay (UFM Pot Project)

- 50-60 BBRKC pots deployed as baited, fishing pots “left out”
- Approximately November 1, 2026, timed with early part of fishery
- Pots will test rot cord decay times with pop-up satellite tags
- Cameras will record time-lapse activity in several pots
- Smart buoys will mark pot locations
- Pots will be deployed and recovered with crab charters
- All pots intended to be retrieved by the end of 1 year (season)
- Several details are in final planning/testing development
- PI’s Goodman, Lescher, Antonelis, several collaborators
- Reporting more on this soon after pilot testing

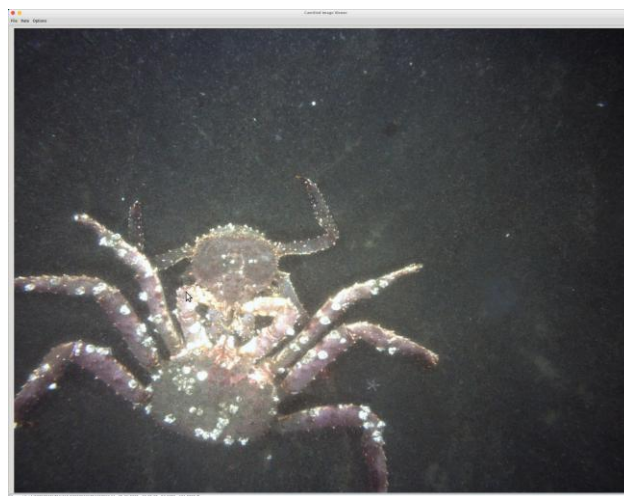


Assisting, coordinating habitat research

- Early life and juvenile habitat area survey/evaluation
- Working with ADFG and others on charters and details

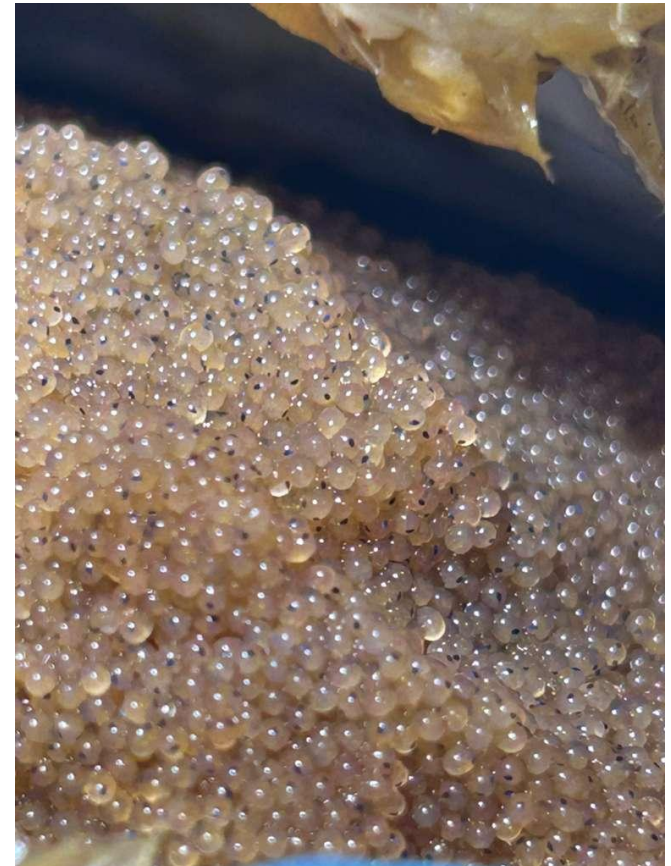


- Adult red king crab habitat evaluation near/around fishing activity
- Advising ABSC on habitat research project in development



Collection of Brood Stock BBR Females for St Paul Hatchery

- Several collaborative partners on large multi year project
- 32 gravid female crabs captured and delivered recently BB to STP
- Coordinated with BSFRF and the FV Confidence/FV Pacific Mariner
- Further reporting from hatchery leadership soon





Top 12 Research Priorities, 2024-2028 – **CRAB IN RED**

(bullets are not in order, shortened summary text from actual)

- Reduce **western Alaska salmon bycatch** in Bering Sea groundfish fisheries
- **Quantify fishing gear impacts on crab and their habitat – toward gear innovation**
- Evaluate **marine mammal-fishery interactions** and potential mitigation measures
- Examine economic, social, and cultural **effects of fisheries and policy on communities** over time
- Actionable **ecosystem indicators** relevant to assessments that **address climate change impacts** to managed stocks
- **Acquire basic life history information** - emphasize improved estimates of **size/age at maturity** & related dynamics
- **Spatial distribution, habitat requirements, and movement of crabs relative to life history events & fishing**
- Predictive tools & **models that evaluate projected climate scenarios** on managed resources to inform options
- **Retrospective and meta- analysis** on ‘efficacy and rationale’ of fishery management plans perform over time
- **Norton Sound Red King Crab** case study as a pilot study for the **incorporation of Local Knowledge**
- Improve **surveys in untrawlable habitat**, particularly for rockfish, Atka mackerel, sculpins, and **snow crab**
- Improve **discard mortality rate estimates** for scallops, crab, and groundfish stocks by gear types

BSFRF Crab Research Update

Crab Plan Team – May 14, 2026



Scott Goodman
Executive Director

*Photo Credits:
C. Lescher*