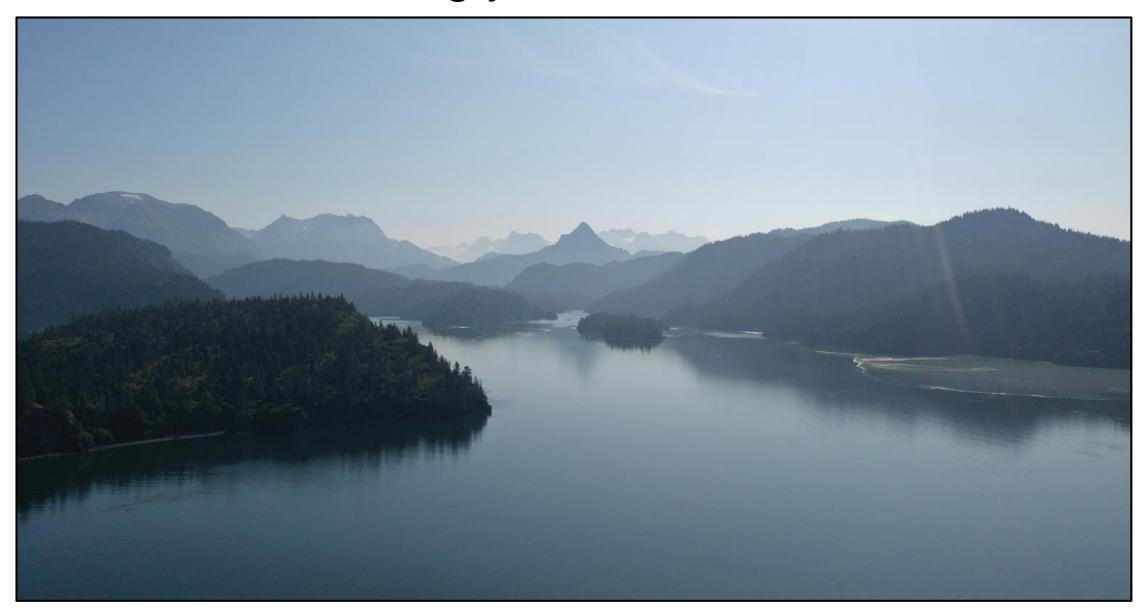
Invasive European Green Crab A Threat to Alaska's Fisheries Jasmine Maurer - KBNERR



What is something you love in coastal Alaska?



European green crab invasion of NE Pacific

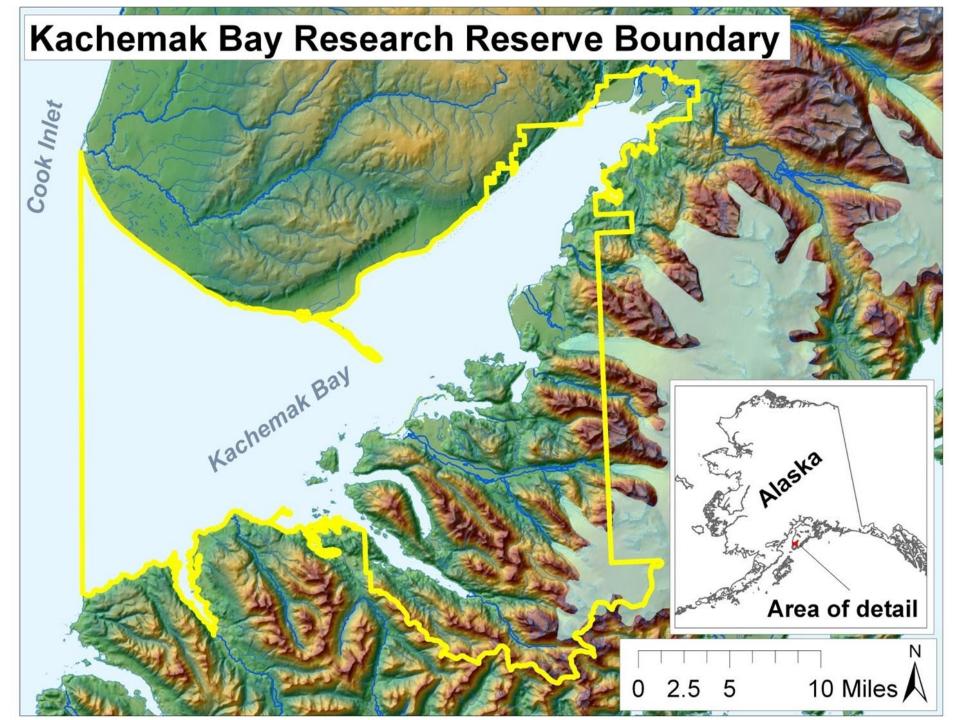
- San Francisco 1989
- Oregon 1995/1996
- Washington 1998
- Salish Sea 1999
- British Columbia 1999
- British Columbia Mainland Coast 2011
- Southern Haida Gwaii Island, BC 2020
- Annette Island, Alaska 2022



- European green crab biology and impacts
- Responding Together



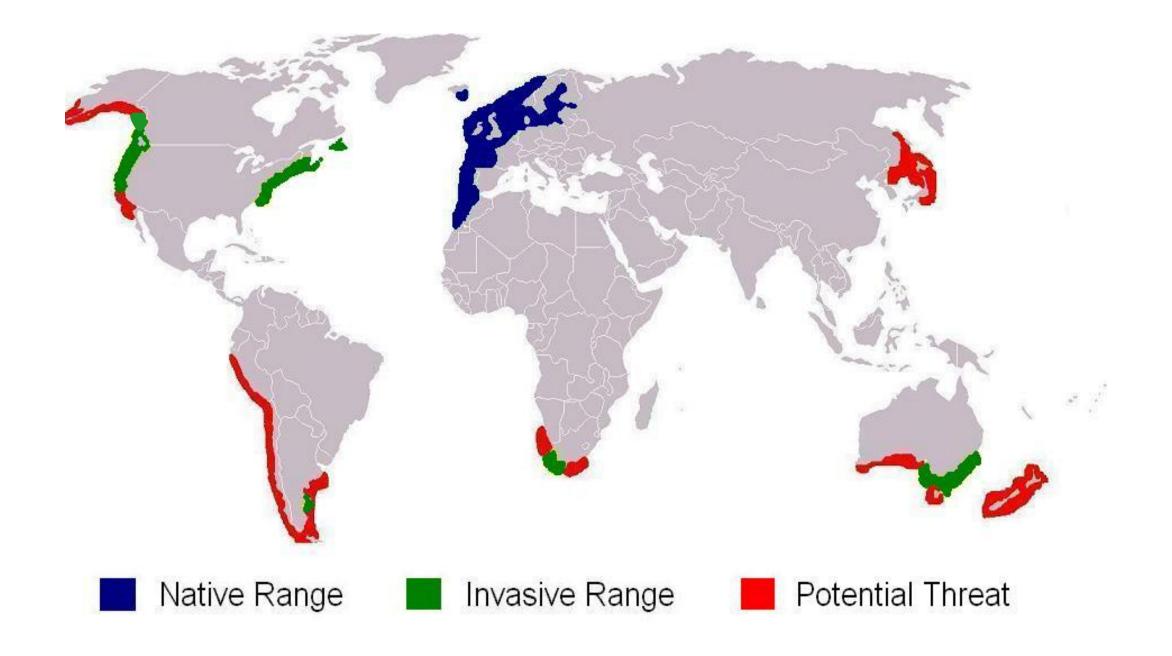












Threat # 1





Habitat

Intertidal to maximum known depth of 55 m.

Dominate in saltmarsh, eelgrass beds, protected bays.



An established invasive green crab population can exclude mussels and have a similar negative impact on other bivalves and mollusks.





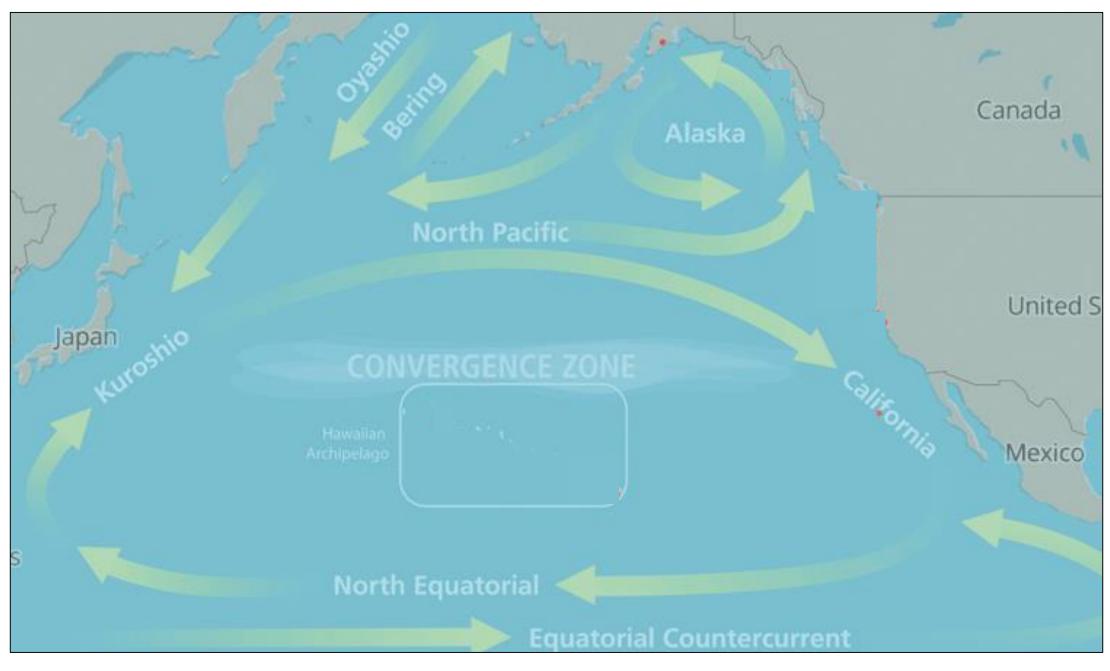


Threat # 4





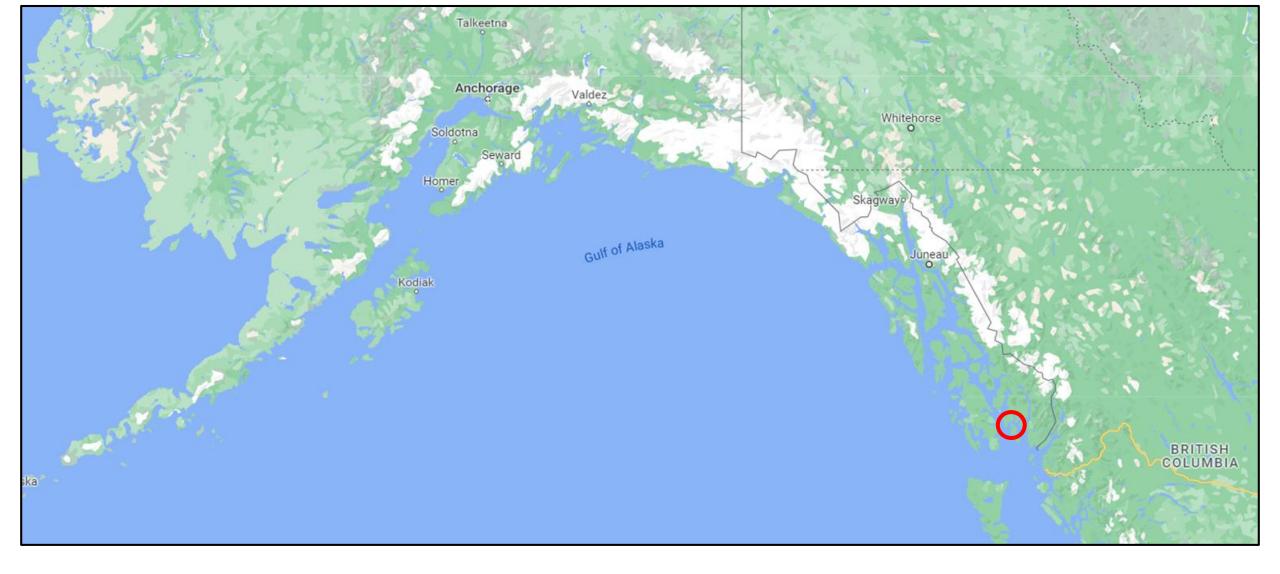
Crab Larvae aka Zoea



https://www.geographyrealm.com/debris-2011-japanese-tsunami-carried-almost-300-species-marine-across-pacific-ocean/

Invasive green crab status in Alaska

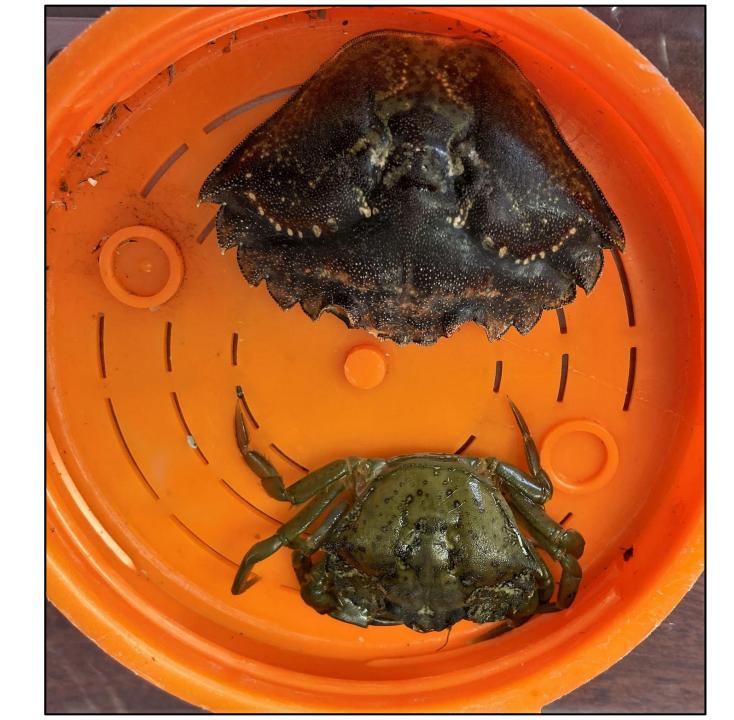




First detection in Alaska was July 2022, on Annette Island by Metlakatla Indian Community early detection program.

Since July 2022

- >700 live invasive green crabs caught
- Varying sizes found
- ADF&G surveyed in nearby suitable habitat, no additional detections.



Responding Together

Invasive green crab

Early Detection





Current Monitoring & Early Detection Efforts

- Metlakatla Indian Community
- PWSRCAC Cordova, Valdez, Kodiak
- Kenai Fjords National Park
- National Parks Glacier Bay & Wrangell St Elias
- USGS Izembek (Alaskan Peninsula)
- USFWS
- Seldovia Village Tribe
- ADFG Ketchikan, Foggy Bay
- KBNERR
- NOAA

Trap Types

- Folding Fukui traps
- Shrimp traps
- Minnow traps



5 baited traps



- Identify
- Measure
- Record
- Release native animals alive



Invasive European Green Crab (EGC) Beach Walk Crab Molt Monitoring 2023

For each crab molt seen use tally marks under the carapace shape to count up to 16 per shape, then circle the total in the table on the back.

Observer(s):	D	pate:		
Location started (description o	or GPS):			
Location ended: (description o	or GPS):			
	Beach Habitat (wrack line, driftwood etc.): _			
Time started:	Time ended:	Invasive	Invasive EGC (five spines):	
E CALLED TO THE STATE OF THE ST			Entered to the second s	
Red Rock:	Helmet:	Dungeness:	Pygmy rock:	
			The same of the sa	
Decorator:	Shore:	Tanner:	Kelp:	

You can share additional observations on the back as needed. Take pictures of any carapace you can't identify, take pictures of any suspected EGC. Please return data sheet to:



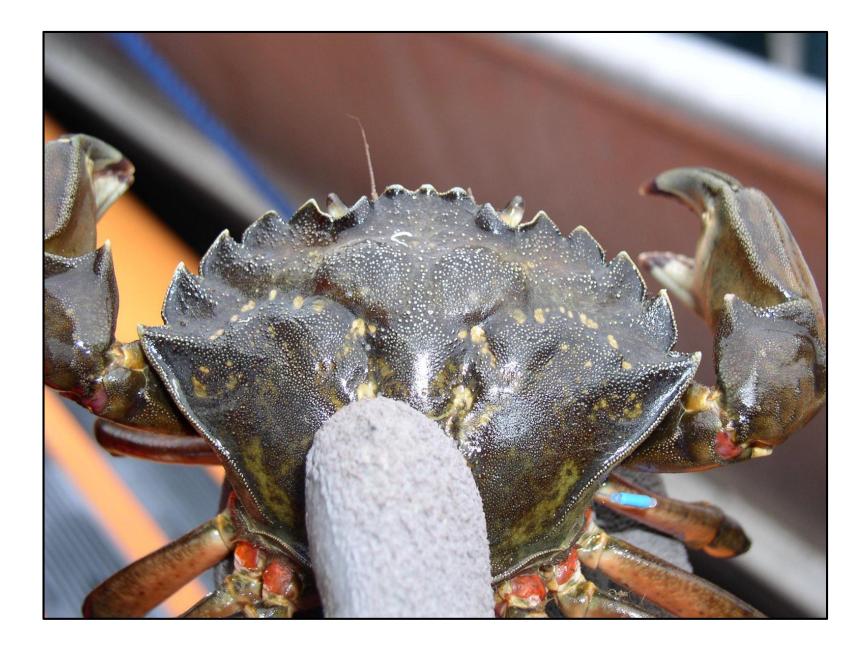
Scan the QR code or call 1-877-INVASIV to report observations of any invasive, non-native species or unusual plants or animals.

I think I found an invasive green crab!!!!

Now what?



- Photograph
- Detailed location
- Report



- Photograph
- Detailed location
- Report

Reports of suspected invasive green crab will be investigated and confirmed.



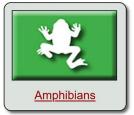
Report Invasive Species

1-877-INVASIV (1-877-468-2748)



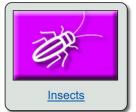
Report Invasive Species

1-877-INVASIV (1-877-468-2748)

















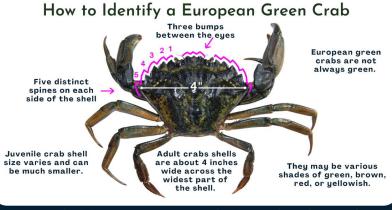






FOUND IN SOUTHEAST ALASKA INVASIVE EUROPEAN GREEN CRAB

Salmon and shellfish habitat is destroyed by European green crabs.



Spotted a European Green Crab? Now what do you do?

- Take multiple photos of the live crab or the crab shell. Collection and transport is prohibited. Note the number of crabs, the location (GPS coordinates or landmarks), and type of habitat.
- Report immediately to the Alaska Department of Fish & Game 1 (877) INVASIV

NATIVE CRABS THAT LOOK SIMILAR TO **EUROPEAN GREEN CRABS**

Green Shore Crab

Three spines on each side of shell and only two bumps between

> Adults are not larger than 1.5 inches wide across the widest part of the shell





spines on either side of the shell

Adult are about 6.5 inches at the widest part of the shell. Their shell is

It is illegal to release nonnative and invasive species into Alaska waters or lands.



Scan the OR Code or call the invasive species hotline at 1-877-INVASIV to report observations of any invasive, nonnative species, or unusual plants or animals







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