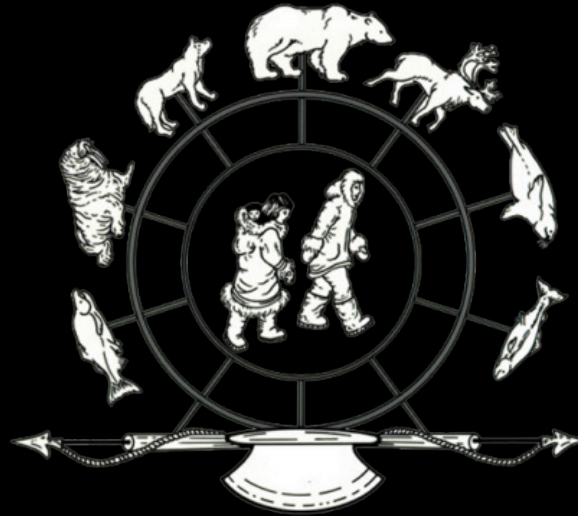


# *Contributions to Understandings of Food Security in the Bering Strait Region of Alaska*



Kawerak, Inc.

Julie Raymond-Yakoubian  
Social Science Program Director  
Nome, Alaska

*IARPC Webinar – June 25, 2014*



# Ongoing and New Challenges to Food Security in the Bering Strait Region

- Increasing vessel traffic through the Strait
- Offshore oil and gas exploration/development
- Potential northward expansion of industrial fisheries
  - Climate change
- Offshore gold dredging in the Nome and Port Clarence region



*Walrus and seal meat,  
prepared in different ways.*



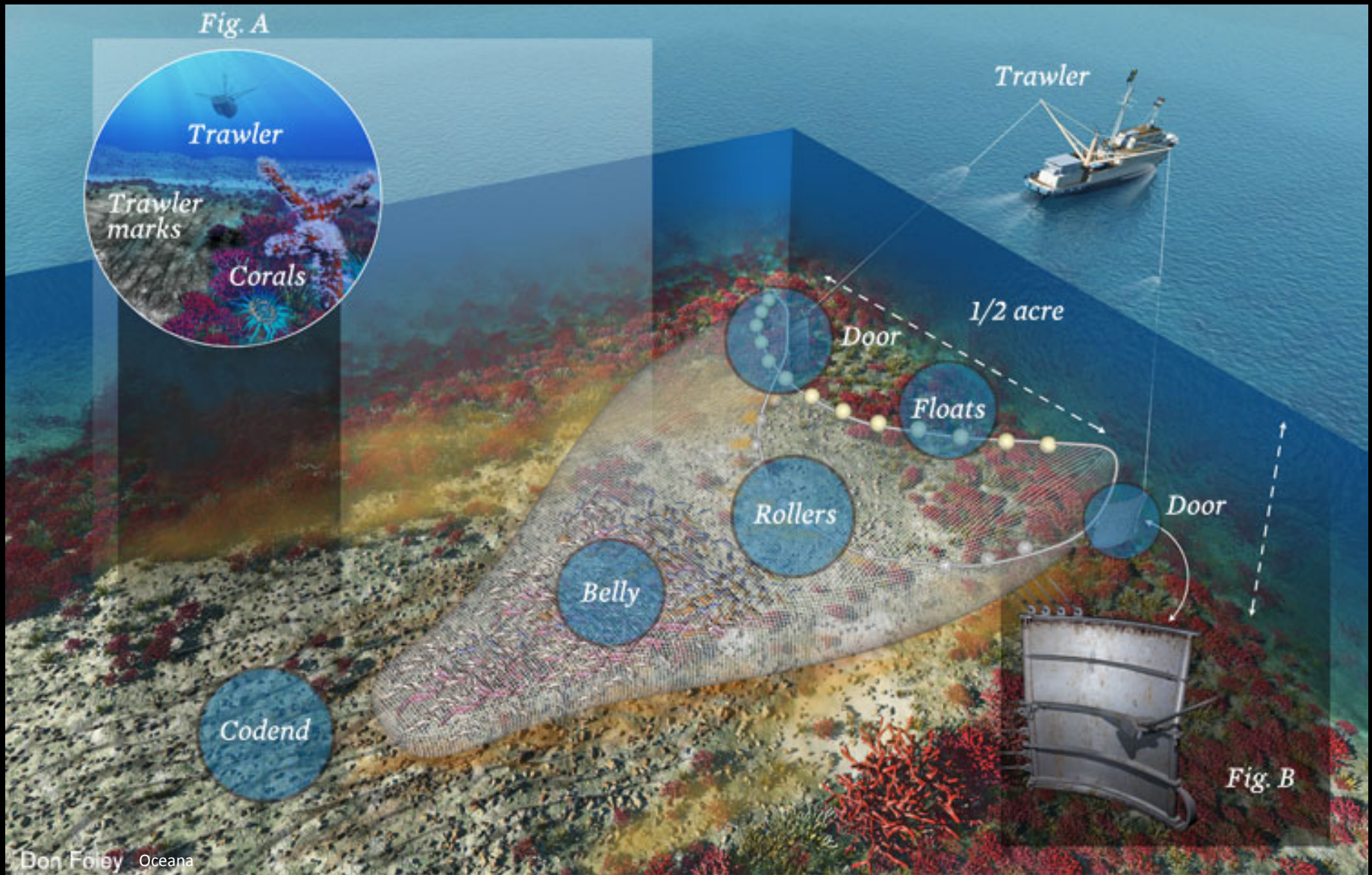
Ship traffic through the Bering Strait  
Oct 2012 – Oct 2013



Jim Paulin: Alaska Journal of Commerce

Offshore oil and gas development and exploration





Northward expansion of trawl fisheries



[shishmaref.bssd.org/sos/](http://shishmaref.bssd.org/sos/)

Erosion along the shore at the village of Shishmaref.

## Climate Change

Permafrost melting and erosion along a Seward Peninsula River.



J. Raymond Yakoubian



Gold dredging in Norton Sound and its potential expansion.





# [www.kawerak.org/socialsci.html](http://www.kawerak.org/socialsci.html)

Some of our ongoing and completed projects

- Traditional Knowledge of Non-Salmon Fish (complete)
- Diomedea Knowledge of Walrus (99% complete)
- Indigenous Knowledge and Use of Ocean Currents (99% complete)
- Community-Based Documentation of Ice Seals and Walrus (99% complete)
- Traditional Knowledge of Salmon (ongoing)
- Knowledge, Beliefs and Experiences of the Supernatural Environment (ongoing)

# Project: Community-based Documentation of Ice Seals and Walrus





Kawerak Eskimo Heritage Program



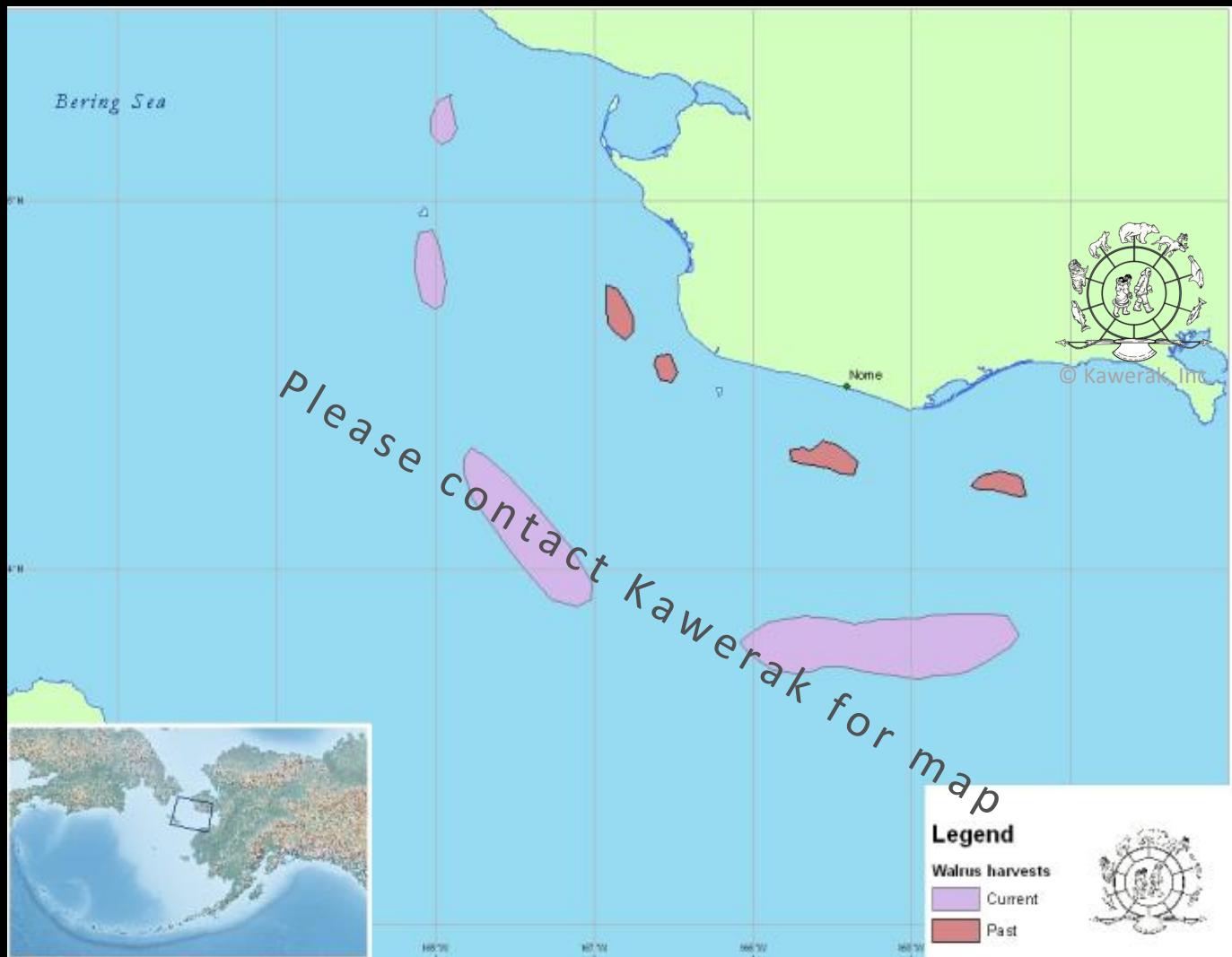
J. Raymond-Yakoubian



Kawerak Eskimo Heritage Program

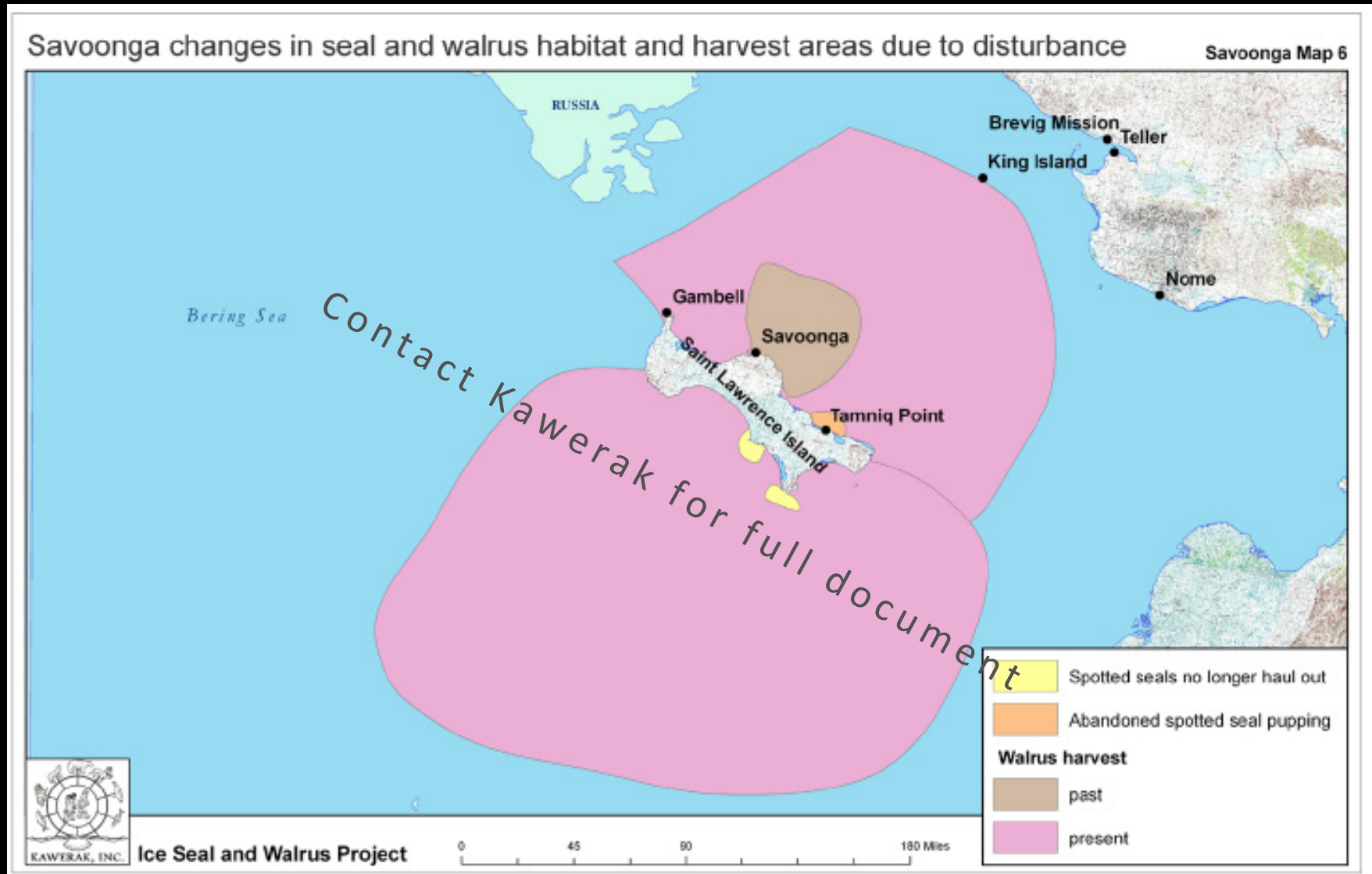


Kawerak Eskimo Heritage Program

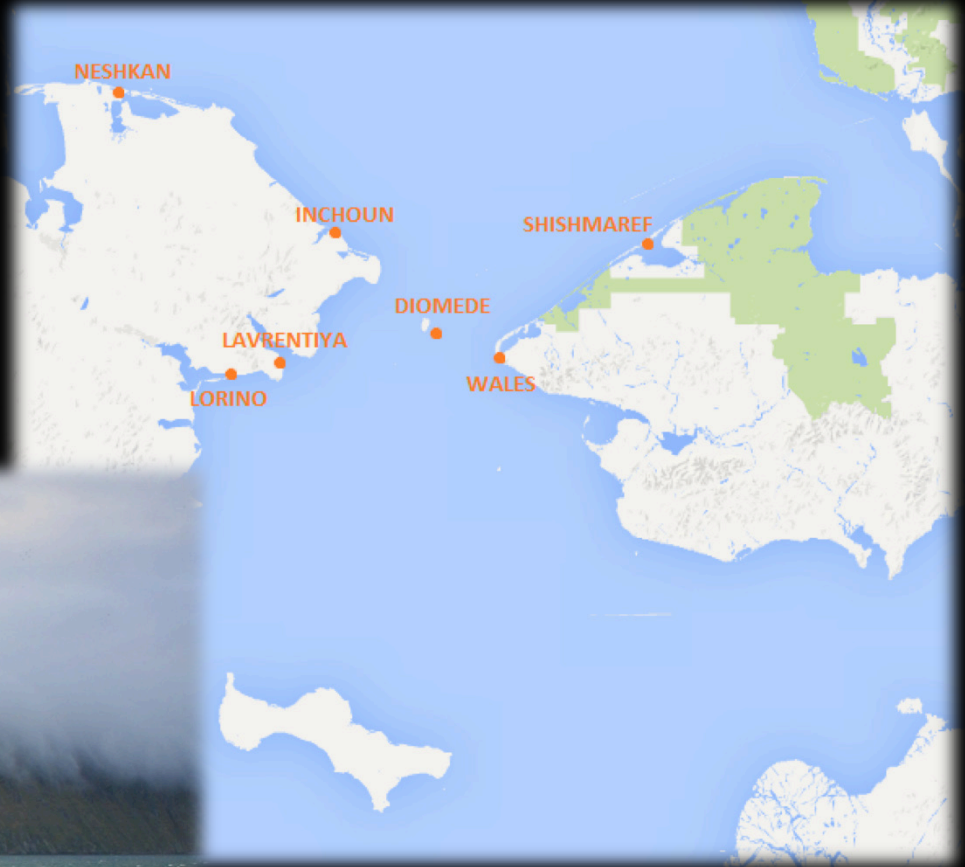


Deterioration in ice conditions have led to an expansion of hunting areas

# Map atlas product: Seal and Walrus Harvest and Habitat Areas for Nine Bering Strait Region Communities



# Project: Indigenous Knowledge and Use of Ocean Currents in the Bering Strait





Kaweraġ Social Science



Kaweraġ Social Science

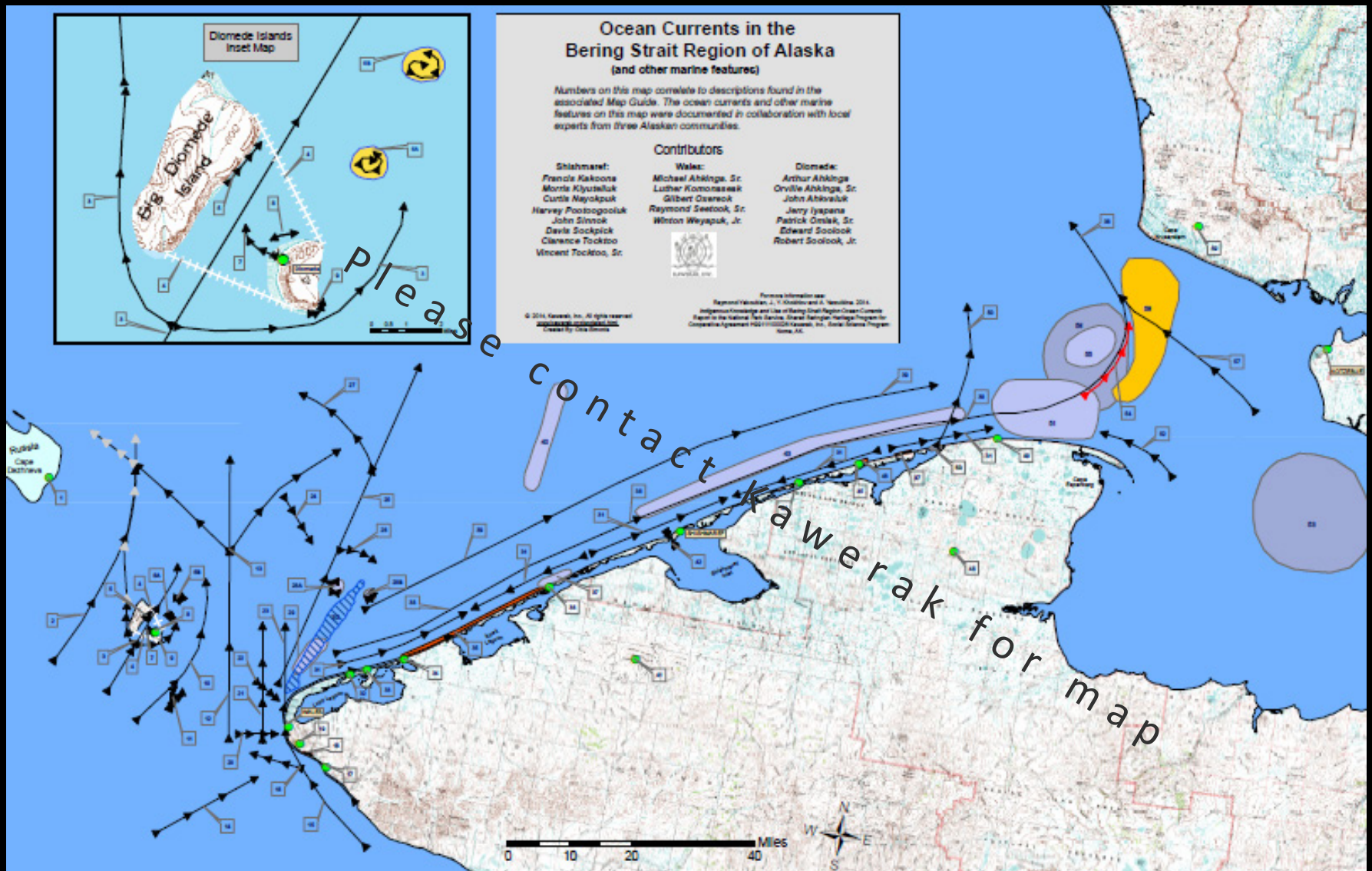


B. Raymond-Yakoubian



Kaweraġ Social Science

# Product: Ocean Currents and other Marine Features Map and Guide





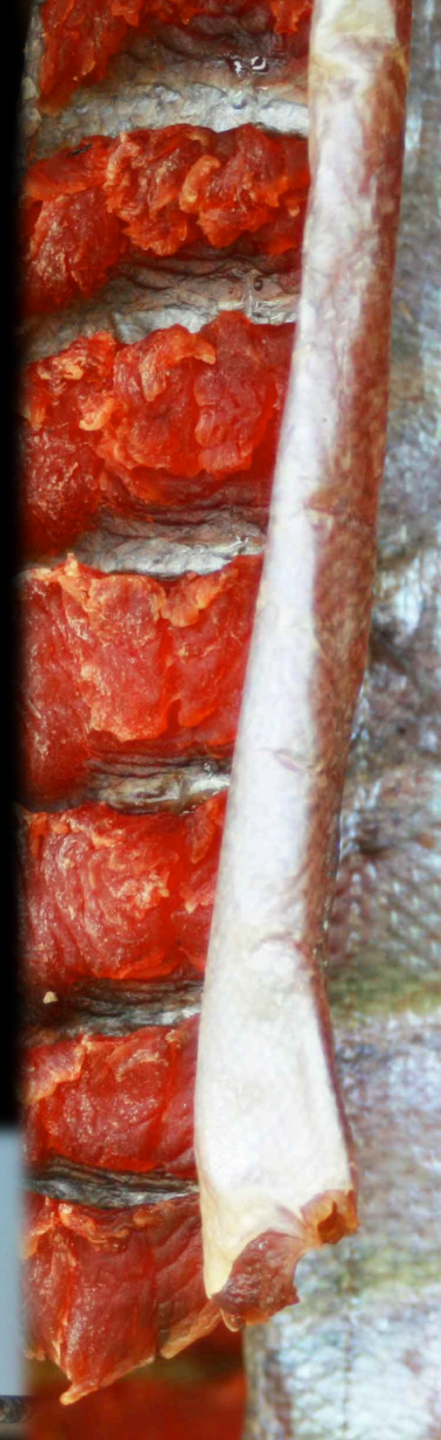
# Food Security in the Bering Strait

- Is impacted by many outside forces
- Is crucial for healthy, strong, sustainable communities
- Can be positively impacted by local, state, federal and international regulation and policy making
- Is connected to the food security of the whole Arctic, and the rest of the world

Indigenous values and knowledge related to food security need to be given more consideration

***The more I read about the way U.S. and other countries are planning to use this northern routing, it's as if we don't exist. [We need to] show the world how important the ocean is for us here.***

***- Ice Seal and Walrus expert***



# Quyanna (thank you) for your time!

## *Ice Seal/Walrus Project staff:*

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Robert Soolook

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Eskimo Walrus Commission  
Oceana  
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Seth Danielson  
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Fred Tocktoo  
Guy Martin  
Dennis Litoyka  
Andrei Stepanov  
Anatoly Kochnev

*Quyanna to local experts from both projects:*

**SHISHMAREF:** Francis Kakoona, Morris Kiyutelluk, Curtis Nayokpuk, Harvey Pootoogooluk, John Sinnok, Davis Sockpick, Clarence Tocktoo, and Vincent Tocktoo Sr. **WALES:** Michael Ahkinga Sr., Luther Komonaseak, Gilbert Oxereok, Raymond Seetook Sr., Winton Weyapuk Jr. **DIOMEDE:** Arthur Ahkinga, Orville Ahkinga Sr., Alois Ahkvaluk, John Ahkvaluk, Jerry Iyapana, Patrick Omiak Sr., Frances Ozenna, Ronald Ozenna Jr., Edward Soolook, Robert Soolook Jr. **KING ISLAND:** Wilfred Anowlic, Jimmy Carlisle, Hubert Kokuluk, Joseph Kunnuk, John Penatac Sr., Vince Pikonganna, John I. Pullock. **SAVOONGA:** Arnold Gologergen, Larry Kava, Kenneth Kingeekuk, Chester Noongwook, George Noongwook, Morris Toolie Sr., Raymond Toolie, Clarence Waghiyi **NOME:** Austin Ahmasuk, Daniel Angusuc, Roy Ashenfelter, Bivers Gologergen, Albert Johnson, Frank L. Johnson II, Stan Piscoya. **ELIM:** Wallace J. Amaktoolik Jr., Eric F. Daniels Sr., Fredrick L. Daniels, John Jemewouk, Elizabeth H. Kotongan, Kenneth L. Kotongan, Paul Nagaruk, Sheldon Nagaruk, Victor J. Nylin Sr., Charles F. Saccheus, Charles F. Saccheus Jr., Joel Saccheus, Ralph J. Saccheus, Russell M. Saccheus Sr. **KOYUK:** Georgianne Anasogak, Johnny Anasogak, Oscar D. Anasogak Sr., Clifford B. Charles, Kenneth W. Dewey Sr., Merlin Henry, Franklin Hoogendorn, Kimberly Kavairlook, Esther R. Kimoktoak, Patrick Kimoktoak, Sophie Milligrock, Roger Nassuk Sr., Ruby Nassuk. **SHAKTOOLIK:** Axel Jackson, Edgar M. Jackson Sr., Van Katchetag, Franklin Paniptchuk Jr., Reuben Paniptchuk, Hannah A. Takak. **ST. MICHAEL:** Joe Akaran, Martin Andrews, Victor Joe, Nicholas Lupsin, James Niksik Sr., Damien A. Tom, Albert A. Washington. **STEBBINS:** Allen M. Atchak Sr., Gabriel J. Bighead, Albert J. Bogeyaktuk Sr., Hermes Dan, Kellen Katcheak, Theodore Katcheak, Pert P. Martin Sr., Alexis Matthias, Isaac Nashoanak, Morris L. Nashoanak Sr., Ryan Nashoanak Sr., Anthony Niksik, Leonard L. Raymond Sr., Joseph Willie. **RUSSIA – LORINO:** Andrei Ettuvye, Anatoly Napayuk, Gennady Inankuyaz, Yakov Etton, Vladimir Piny, Alexey Ottoy, Eduard Ryphrghin, Nicolay Aratyrgin **LAVRENTIA:** Evgeny Einycheivun, Vladimir Einycheivun, Oleg Dobriev, German Gheukay, Nicolay Ettitegin, Igor Zdor **INCHOUN:** Arthur Nuteveket, Sergey Pucheneut, Evgeny Siv-Siv **NESHKAN:** Eduard Zdor, Nikolai Ettyne

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- Kawerak, Inc. (Administration and Wellness Program)



*Local greens  
preserved in seal oil.*

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