

ALASKA STATE LEGISLATURE  
SENATE SPECIAL COMMITTEE ON ARCTIC AFFAIRS

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# The Arctic Region





# Alaska at the Nexus of US Domestic and Foreign Policy

National and Homeland Security

Geopolitically

Socially

Economically

Environmentally

Natural Resources

Russia, China, Russia & China, BRICS

Strategic Bering Strait

Great Power Competition in the Age of Economic Integration

Transatlantic Alliance

Trans-Arctic Alliance



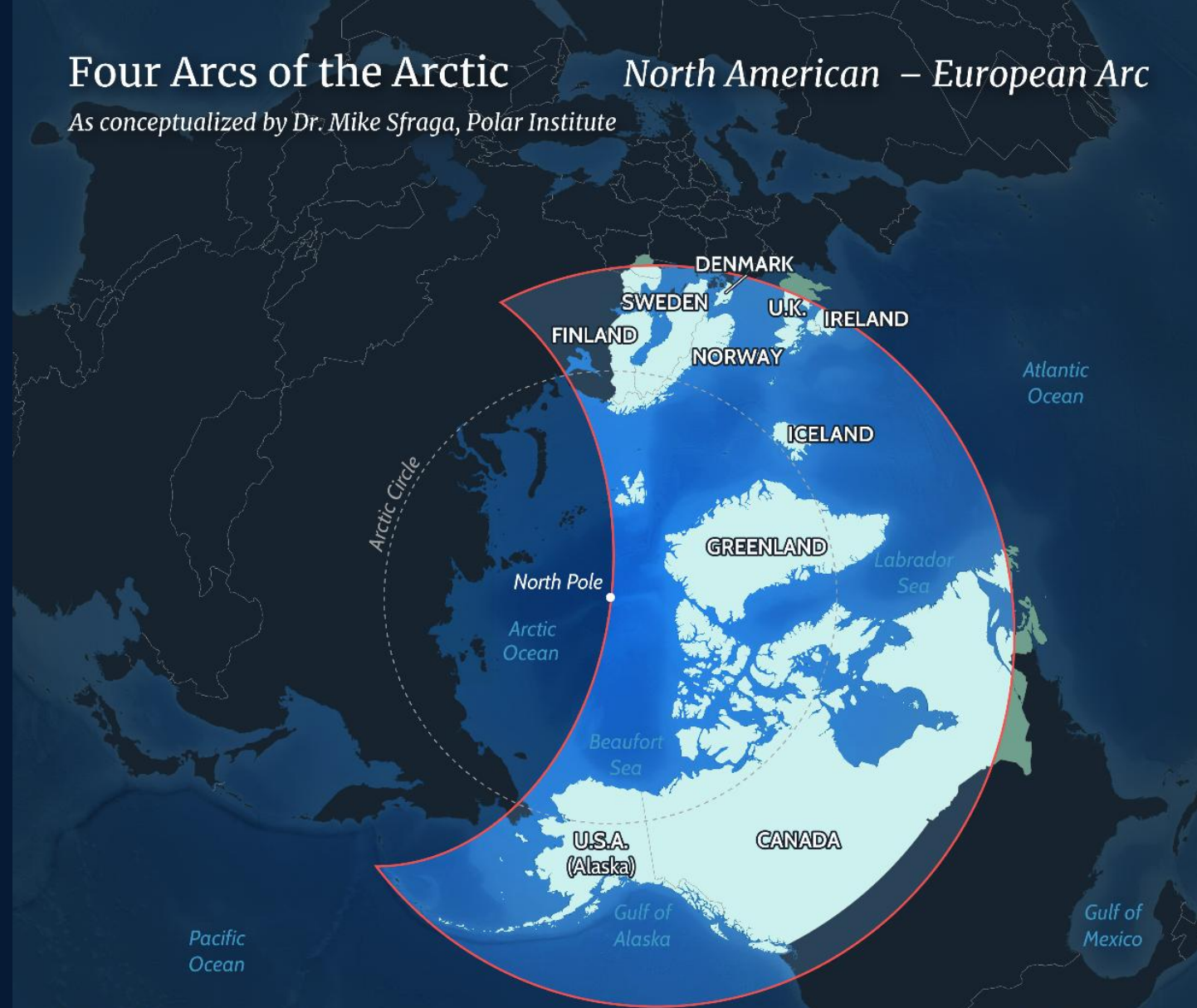




# Four Arcs of the Arctic

## North American – European Arc

As conceptualized by Dr. Mike Sfraga, Polar Institute



# Four Arcs of the Arctic

As conceptualized by Dr. Mike Sfraga, Polar Institute

## Russian Federation Arc



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## Atlantic Arc





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## Pacific Arc





# The Five Bs of the Interconnected Arctic

*As conceptualized by Ambassador Mike Sfraga, PhD*



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# Four Pillars of the US National Strategy for the Arctic Region

Alaska is at the Nexus of Arctic Domestic and Foreign Policy

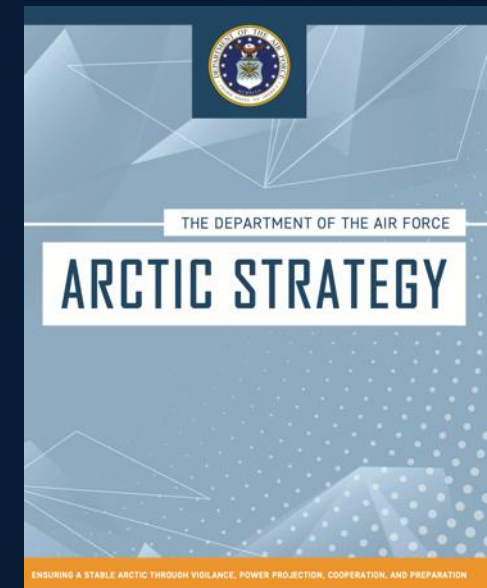
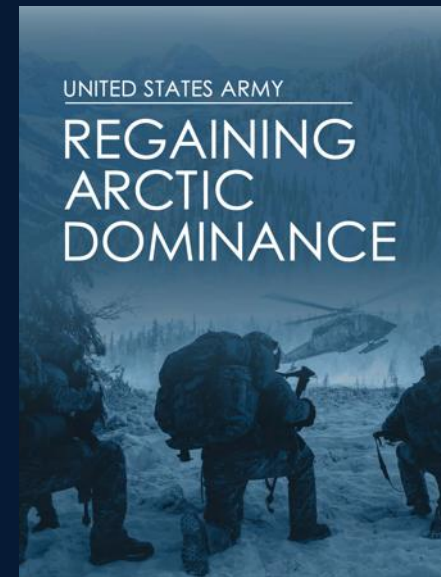
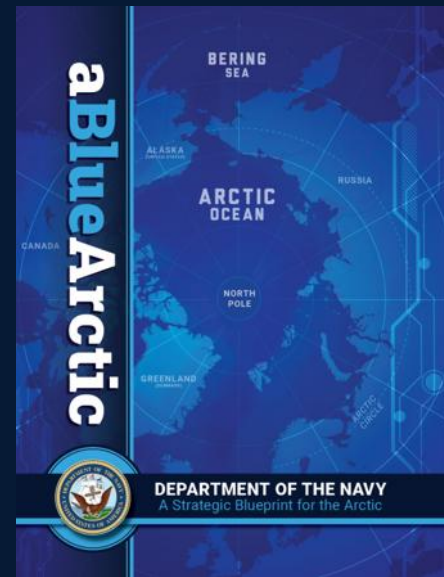
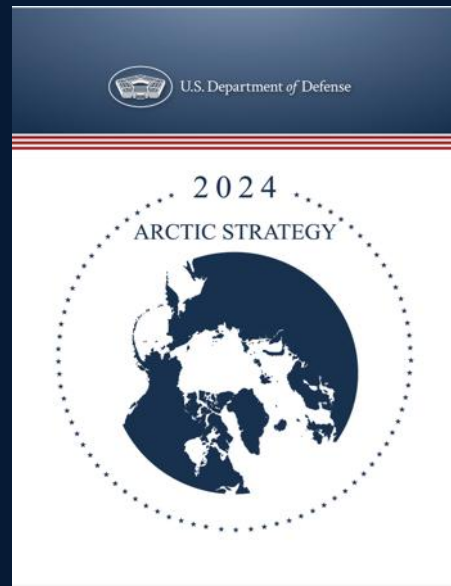
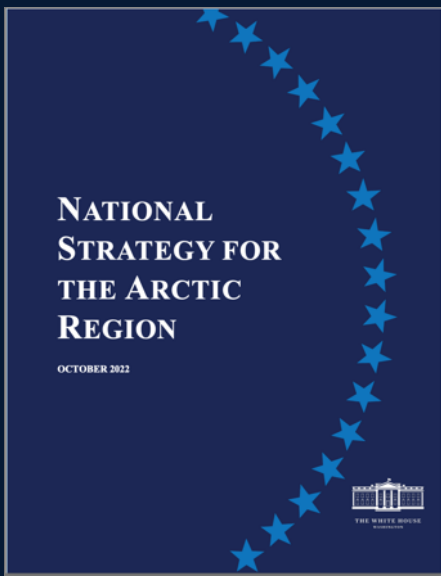
Pillar 1—Security

Pillar 2—Impacts of a Changing Arctic Environment

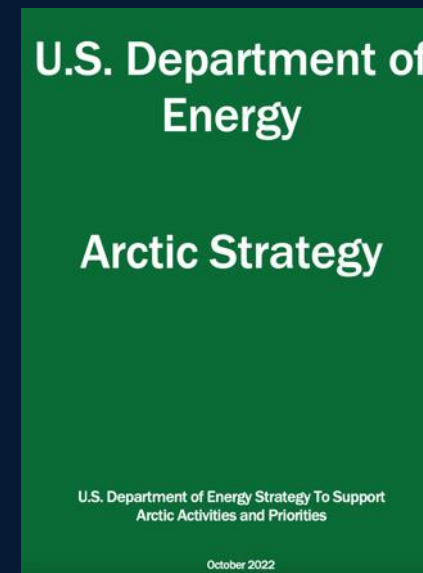
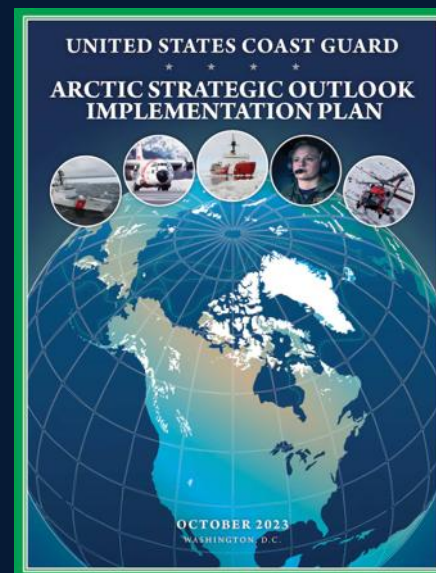
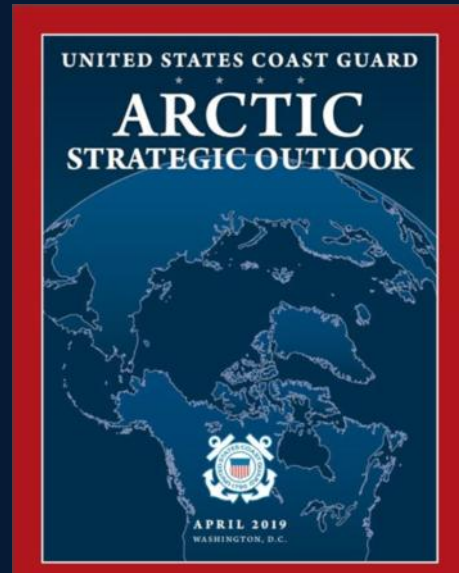
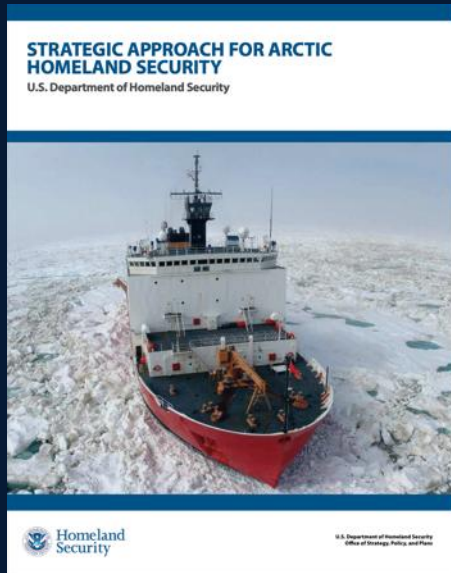
Pillar 3—Sustainable Economic Development

Pillar 4—International Cooperation and Governance





# Many US Arctic Strategies





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# “Arctic Legos”

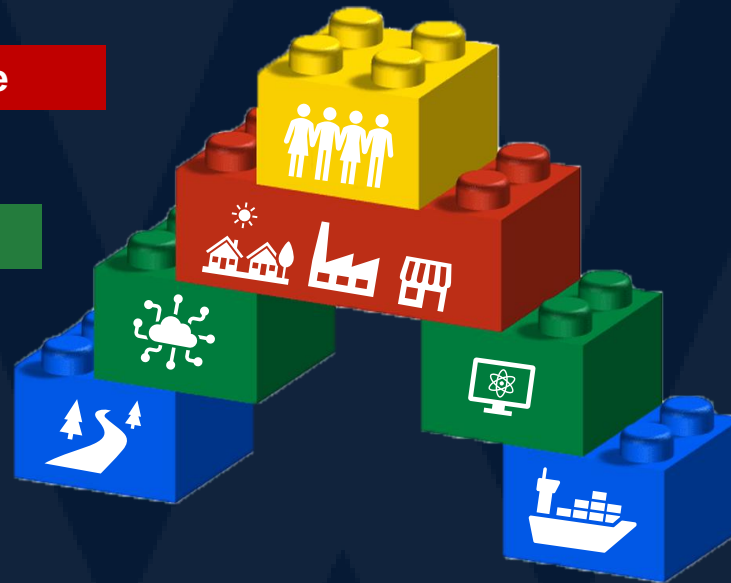
## Not Just The Port of Nome: A Multi-Use Complex

The “Bering Strait Security, Research, and Economic Corridor”

=  
Integrated infrastructure

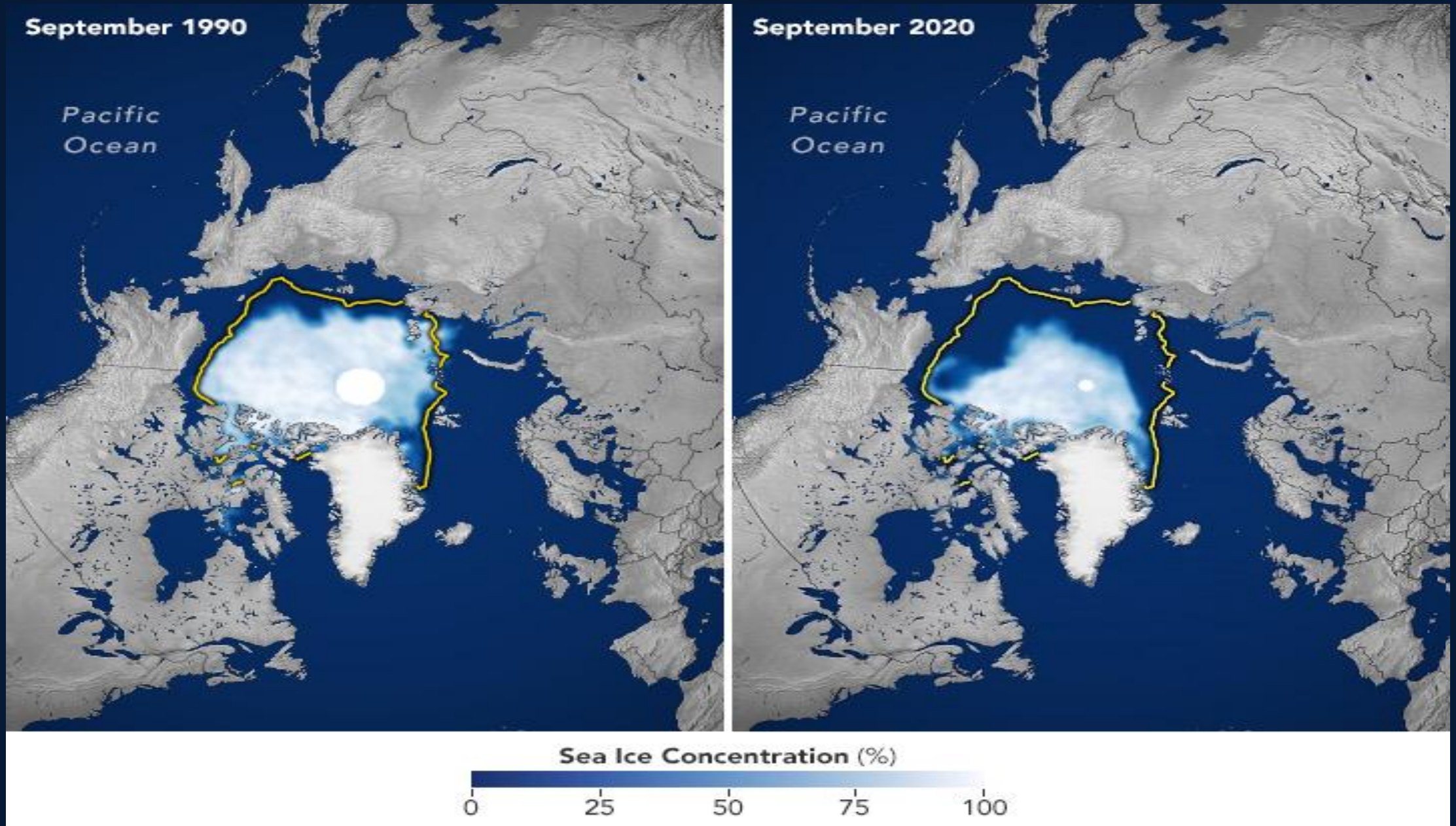
+  
Digital infrastructure

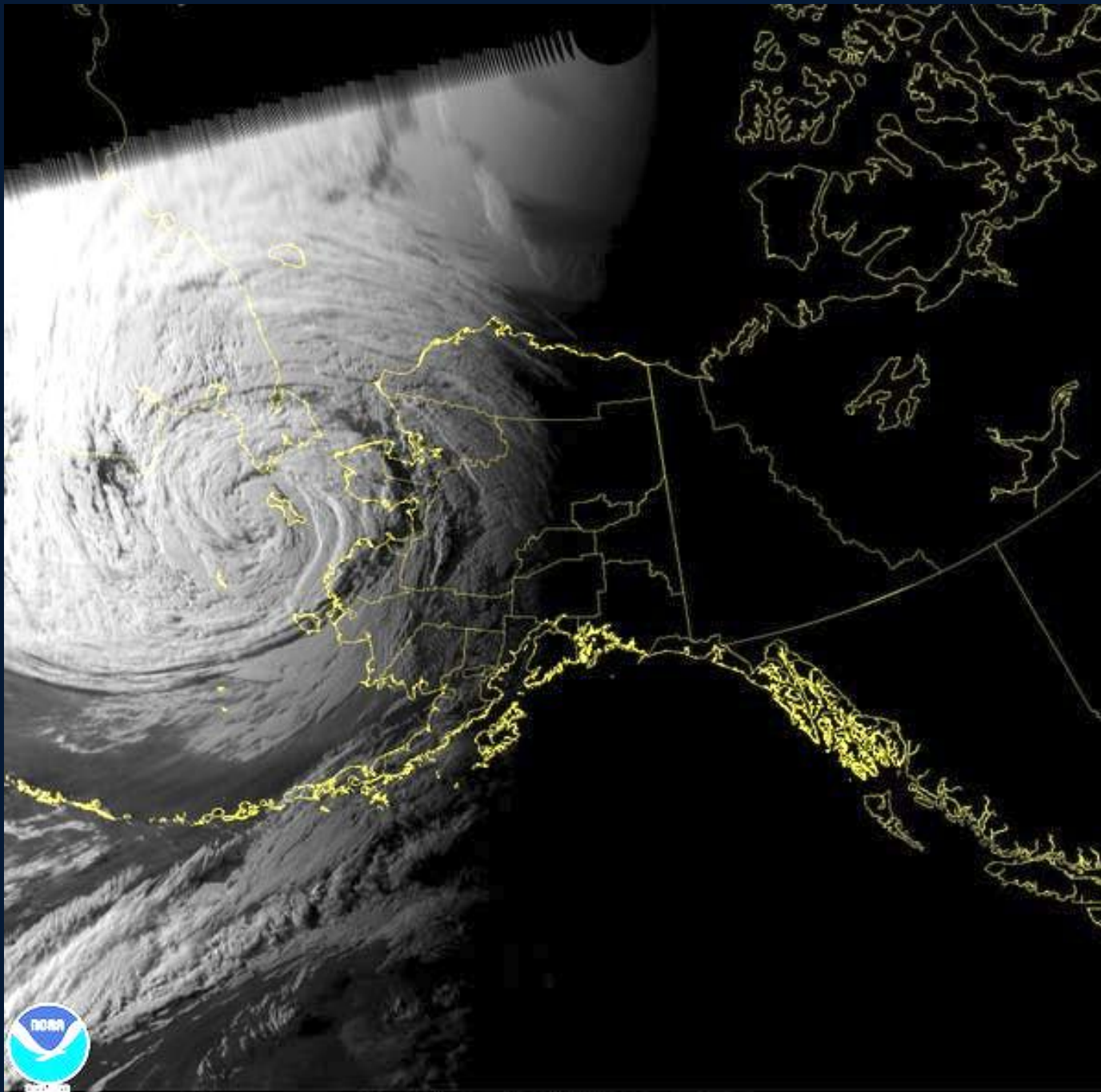
+  
Basic infrastructure





# Decreasing extent of summer sea ice: 1990 versus 2020

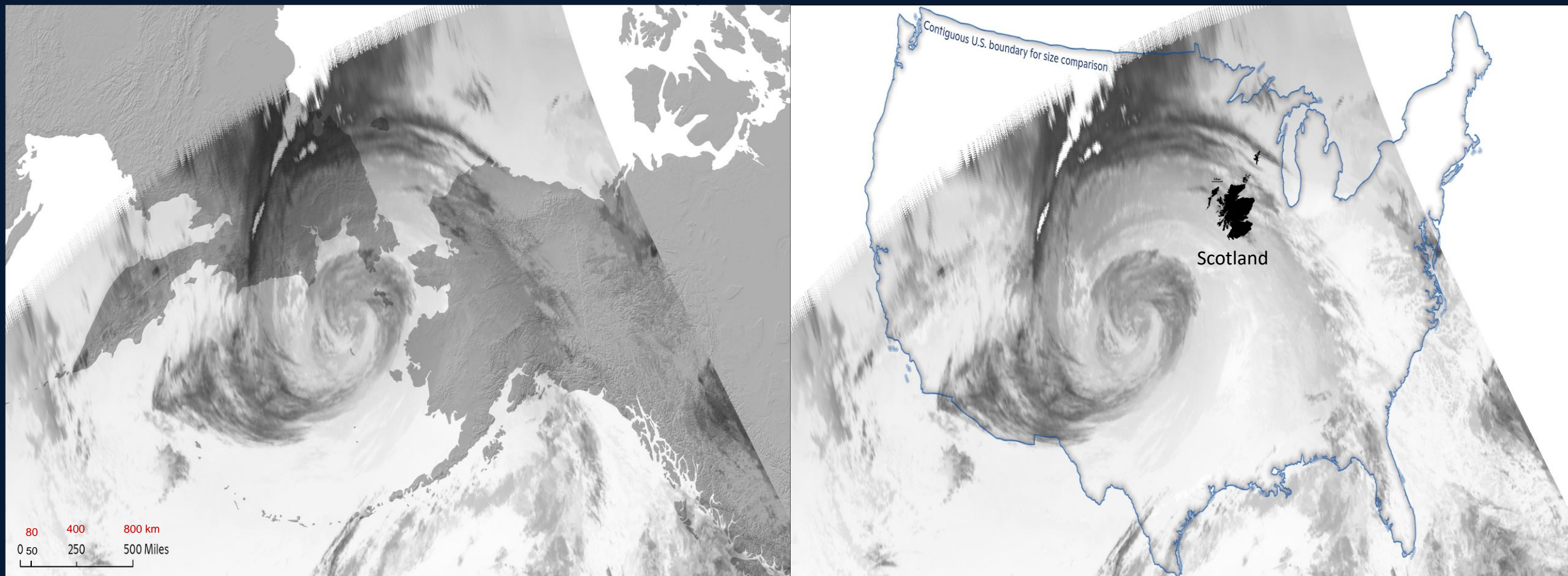




## Ex-Typhoon Merbok, September 2022



# How large was Merbok?



# High-frequency Active Auroral Research Program

- Gakona Alaska 62.39 deg, 145.15 deg (West)
- 2.8 to 10 MHz, 5 x 4000 hp diesel engines; 3.6 MW
- 180 crossed dipoles, 360 transmitters





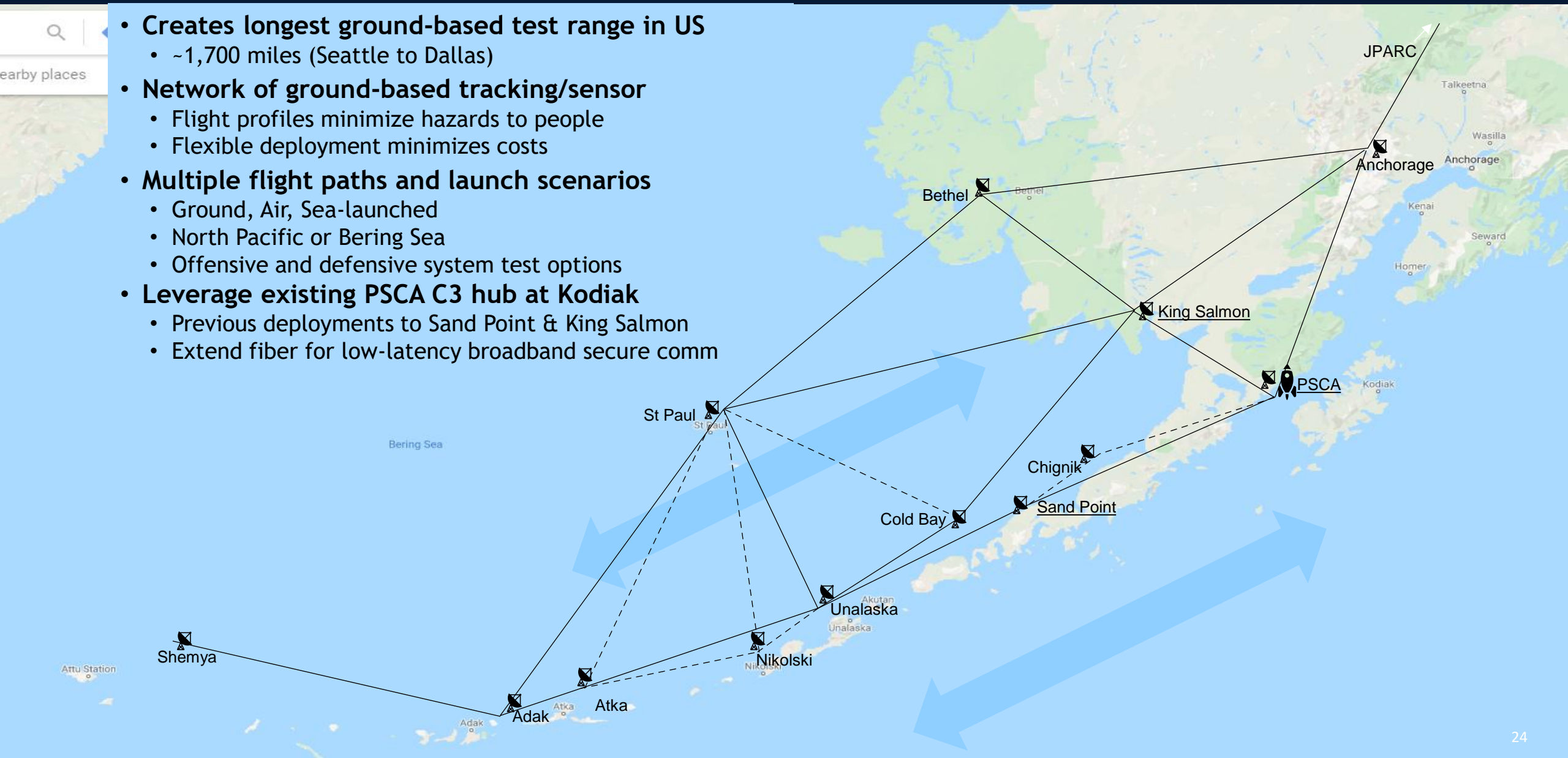
# Rocket Launch Facilities in Alaska

## Aerospace Facilities in Alaska



# Golden Dome-Aleutian Islands Hypersonic Test Range

- **Creates longest ground-based test range in US**
  - ~1,700 miles (Seattle to Dallas)
- **Network of ground-based tracking/sensor**
  - Flight profiles minimize hazards to people
  - Flexible deployment minimizes costs
- **Multiple flight paths and launch scenarios**
  - Ground, Air, Sea-launched
  - North Pacific or Bering Sea
  - Offensive and defensive system test options
- **Leverage existing PSCA C3 hub at Kodiak**
  - Previous deployments to Sand Point & King Salmon
  - Extend fiber for low-latency broadband secure comm





# The Arctic Region



Names and boundary representation are not necessarily authoritative  
August 21, 2015 - U1282 STATE (HJU)



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