



U.S. Coast Guard Arctic Activities



Presented by: CDR Michelle Webber
Seventeenth Coast Guard District (drma)



Alaska Native Consultation and Cultural Communications Course



3-5 Aug 2009

Juneau



- DHS directive to solicit and engage Alaskan Native Tribes in the development of regulatory policies
- To provide Coast Guard leadership with a background on the federal trust responsibility & need for appropriate tribal engagement





UNCLASSIFIED



Forward Operating Location Prudhoe Bay

- 19-24 July 2009 for inshore maritime security
- 2 small boats (RB-HS & SPC-SW)
- Sling launch boats
- 20 Personnel





Nome Tailored Force Package

August 10-24, 2009

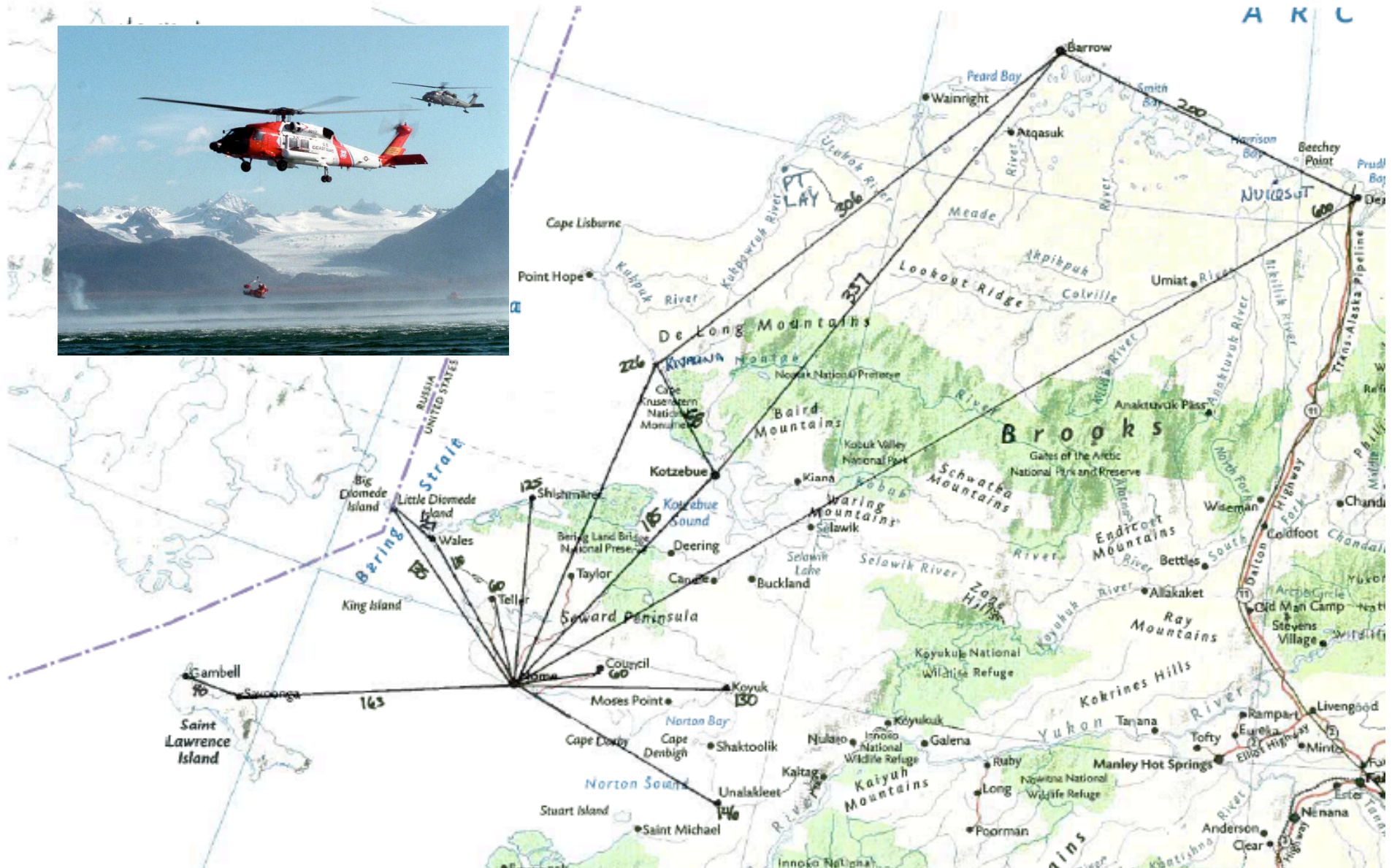


- 4 helos (CG, ANG, ARNG) and two 25' small boats
- 83 people
- Boating Safety Training Team
- Community/Tribal Liaison
- Building a traditional boat
- Medical/Dental/Veterinary/Optometry outreach Team
- Community Project – Beach Cleanup
- SAR Demo/Static Display
- Visit 11 Villages





Distances to Outreach Villages





Nome Tailored Force Package

August 10-24, 2009



- Building a traditional boat
- Medical/Dental/Veterinary/Optomety outreach Team
- 1,082 animals
- 301 patients
- 11 villages



FOL deployed USAF veterinarian gives a Wales dog a special "treat" – a rabies shot





Alaska Native Diversity Education Recruitment Outreach

23-25 SEP 09



Nome, AK – Petty Officer 2nd Class Cody Lathrop with the Coast Guard Cutter Mustang homeported in Seward, Alaska, assists a Nome high school student with donning law enforcement gear during the Alaskan Native Outreach at Nome High School. Lathrop demonstrated Coast Guard law enforcement gear and spoke about his role as a machinery technician to youth at Nome, Kotzebue and Barrow public schools.



BARROW



Barrow, AK – Capt. Henry Shen with ISC Ketchikan takes a Barrow Middle School student's blood pressure during the Alaskan Native Outreach at Barrow's middle school. Shen is a flight surgeon and spoke with students about his Coast Guard career. His hometown is Mountain Village, Alaska.



Kotzebue, AK – Petty Officer 1st Class Eileen Nelson with Marine Safety Unit Morgan City participates in a Kid's Don't Float program during the Alaskan Native Outreach with Kotzebue's elementary students focusing on the importance of wearing life jackets. Nelson is a native of Igiugig, Alaska



Kotzebue, AK - Master Chief Jeremiah Roberts with the Seventeenth District Command Center in Juneau shows a middle school student how to plot on a navigational chart during the Alaskan Native Outreach.



Nome, AK - Chief Luis Nieves with Sector Anchorage shows a Nome high school student the proper way to carry a weapon during the Alaskan Native Outreach at Nome High School. Nieves is a Coast Guard reservist and works with the Alaska State Troopers in Kotzebue.



Alaska Native Diversity Education Recruitment Outreach

23-25 Sep 2009

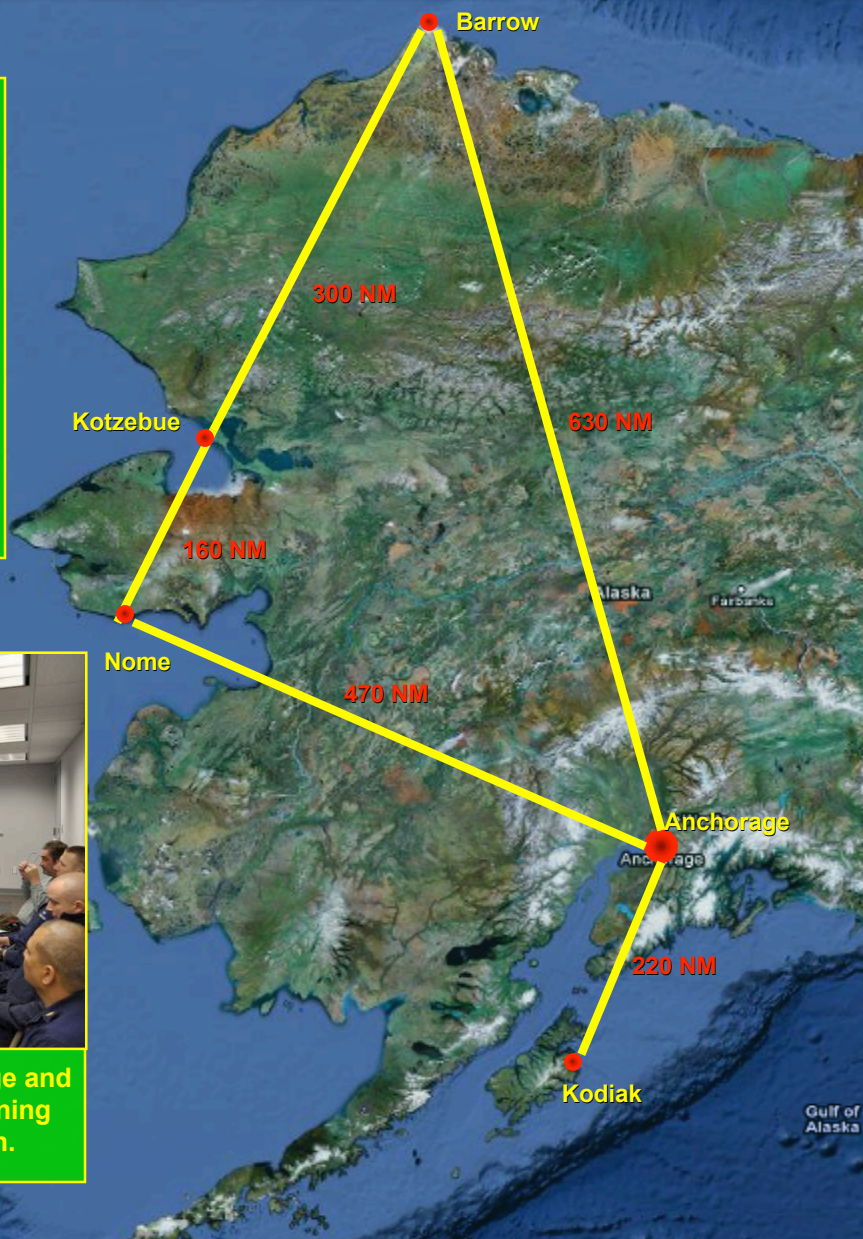


Team consisted of 35 members from:

- CG-12
- CG-00H
- District 17
- Air Station Kodiak
- Sector Anchorage
- Sector Honolulu
- MSU Morgan City
- ISC Ketchikan
- CGC MUSTANG
- CG Auxiliary
- D17 PADET Kodiak
- CG RUITOFF Anchorage



22 Sep: All members met in Anchorage and received cultural communications training from Mr. Joel Casto, D17 Tribal Liaison.



22 Sep: A/S Kodiak C130 transported the team from Anchorage to Nome.

23 Sep: Conducted outreach at Nome Elementary and Nome Beltz Jr-Sr High School. Upon completion, departed to Kotzebue via C130.

24 Sep: Conducted outreach at Kotzebue Elementary, Middle and High Schools. Upon completion, departed to Barrow via C130.

25 Sep: Conducted outreach at Barrow Elementary, Eben Hopson Middle School, Barrow High School and Ilisagvik College. Upon completion, departed to Anchorage via C130. Mission complete.

Coast Guard team representation consisted of:

- Military and Civilian Recruiting
- Search and Rescue
- Law Enforcement
- Small Boat Operations
- Large Cutter Operations
- Air Operations (fixed and rotary wing)
- Marine Safety
- Water & Boating Safety
- Public Affairs
- Medical (Doctor / Flight Surgeon)
- Alaska Native Coast Guard Members



Alaskan Native Outreach 2009

23-25 Aug 09



UNCLAS//FOUO



Tours of C-130, H-65 and Cutter ALEX HALEY



Water Safety Training at schools



Showing communities and Students what we do...
Navigation, Law Enforcement,
Emergency Medical Response

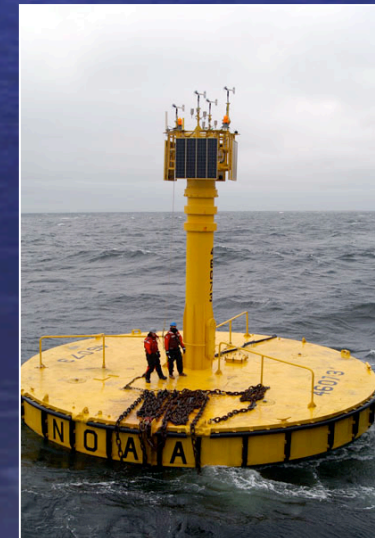




USCGC SPAR Summer 09



- Deployed a 12 meter NOAA Buoy west of St. Paul
- Deployed Spilled Oil Recovery System in Nome
- Brought Doctors to Little Diomed
- 2 NOAA and 1 Canadian ship rider





CGC ALEX HALEY

Arctic Patrol Sep – Oct 2009

Vertical Replenishment
via embarked HH-65
helo



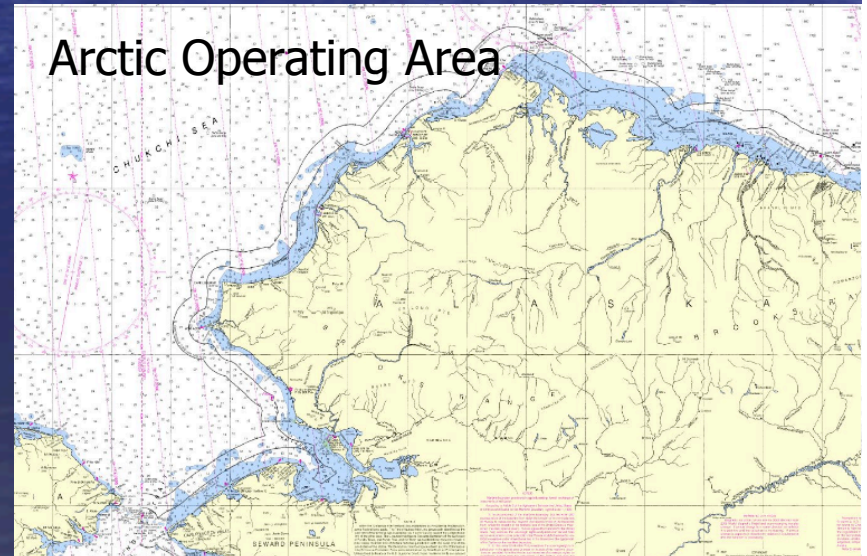
ALEX HALEY underway with sea ice



ALEX HALEY MOORED IN NOME, AK

- Patrol Goals and Accomplishments
 - Arctic Domain Awareness
 - Patrolled Arctic for 21 days.
 - Community Outreach
 - Met with Mayor of Kotzebue.
 - Embarked helicopter served as static display for Kotzebue schoolchildren.
 - Exercise VERTREP capability
 - Conducted VERTREP via embarked HH-65 off Kotzebue.

Arctic Operating Area





Maritime Boundary Line Patrols



**C-130 Deployment to Kotzebue & Nome
Summer months**

**Provides easier reach to maritime
boundary line with Russia**





Air Station Kodiak's Science of Opportunity Missions





Oil Spill Recovery Institute

- Measures wind speed, direction, temperature, relative humidity, barometric pressure and solar radiation
- At Cape St. Elias, Kayak Island
- Data available at: <http://denali.micro-specialties.com/CapeStElias/>
- Advisory Board set up by a mandate from the Oil Spill Recovery Act of 1990

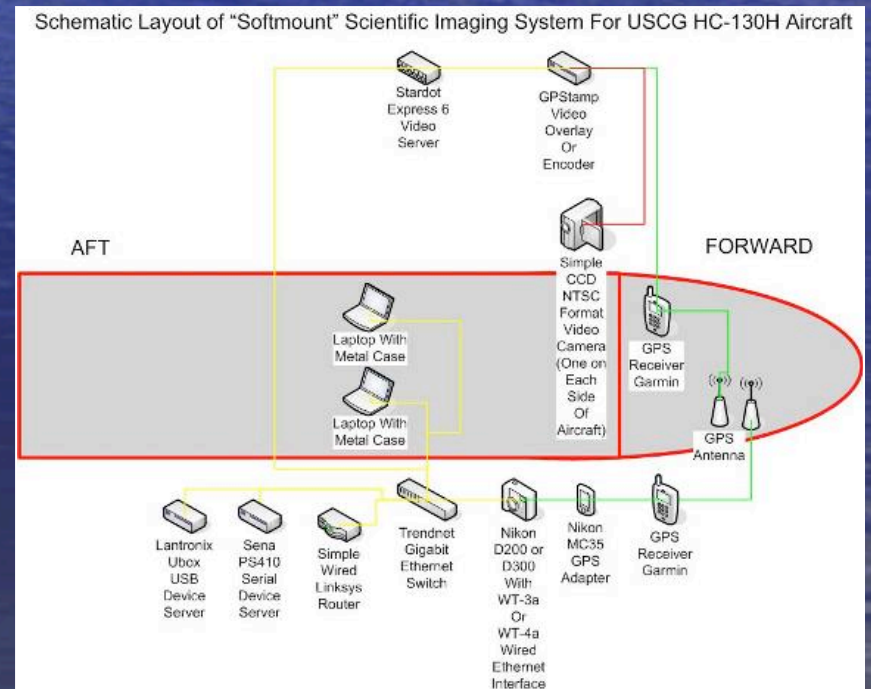
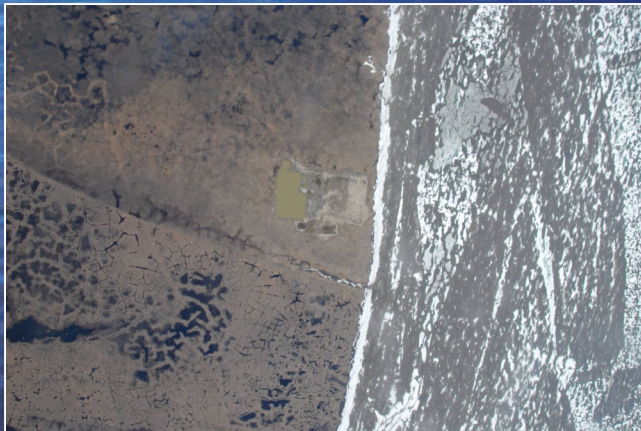




HALE Geo-Reference Camera



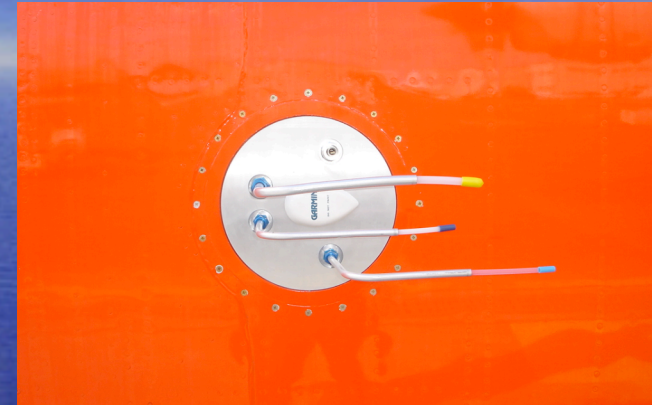
- Lead: Dr. Richard Beck, University of Cincinnati
- Goals: Collect Video/still imagery networked with 2 GPS receivers to produce geo-referenced products. The data contains an overlay with position, altitude and speed references for future analysis.
- 3 missions flown in 2008. None in 2009.





Air-Data Collection

Lead Scientist: Colm Sweeney
Univ. of Colorado and NOAA

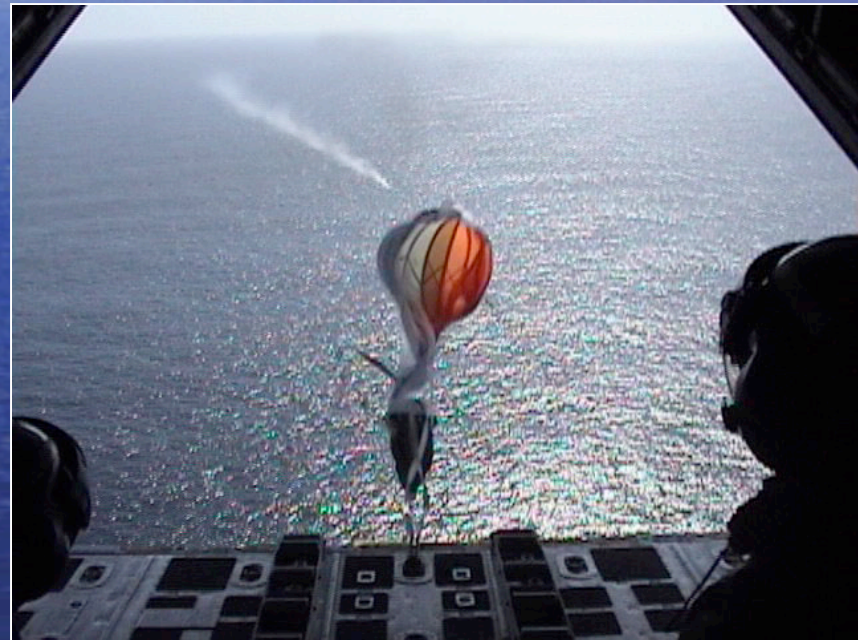


- Goals: Utilizing air probe installed in one of our port-hole windows, the device will collect air samples at various altitudes along our flight path. Samples are collected to measure the amount of greenhouse gases in the air over the thawing tundra region of Alaska.
- MSD Kodiak personnel trained on operation of equipment and sample collection occurred on most ADA flights.



Planned Projects

- Air Dropped Buoy Data Collection Devices
- Laser Altimeter
- Temperature Datum Probes





Air Dropped Data Buoys

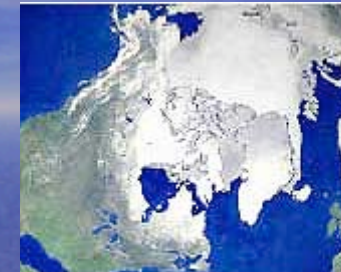
- POCs: Dr. Rigor, Univ. of Washington, Polar Science Center
Air Droppable Expendable Ice Bouy:
National Ice Center
- Goals: collect climate and sea/ice movement data in Arctic. Data is transmitted via satellite link for analysis.
- No ACCB required for these missions. There are 2 different types of buoys planned for deployment, with final design modifications being made to one and the other already being implemented by the Air National Guard. However, equipment is non-standard drop equipment, requiring HQ approval for drops. Local drop procedures need to be established.





Laser Altimeter

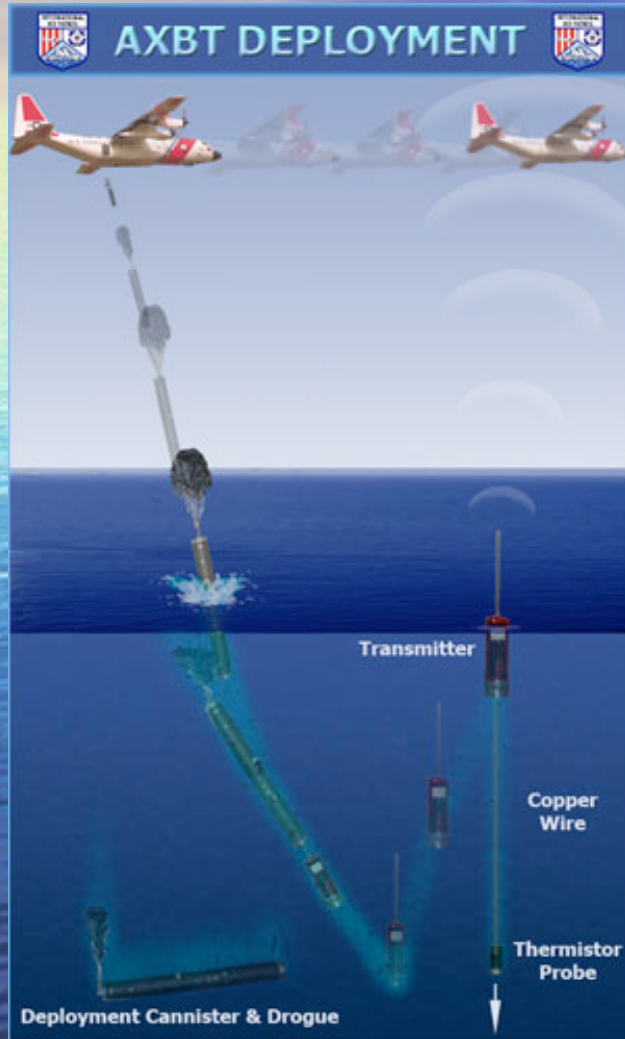
- POC: James Maslanik, Univ. of Colorado
- Goals: Provide detailed mapping of ice thickness.



- Initially denied because laser could not be proven to be eye-safe for use within airplane. Future design to utilize flare launch tubes w/ bracket outside of airplane, approval awaiting final design. Air Station Sacramento will demonstrate capability and compatibility before system brought to Kodiak.



Temperature Datum Probes



- POC: James Morison, Univ. of Washington, Polar Science Center
- Collect salinity measurements in the Arctic Region from an aircraft by deploying sensor via flare launch tubes.
- Experiment was successfully tested by Alaska Air National Guard in 2008. An ACCB has been submitted, awaiting approval.



Challenges

- Coast Guard personnel do not operate the equipment. A scientist must be available.
- Timing missions to coincide with scientist schedules and competing operational demands.
- Approval process for aircraft configuration changes can be lengthy, causing delays and frustration from science community.



Native Commissions

- Alaska Eskimo Whaling Commission
- Eskimo Walrus Commission





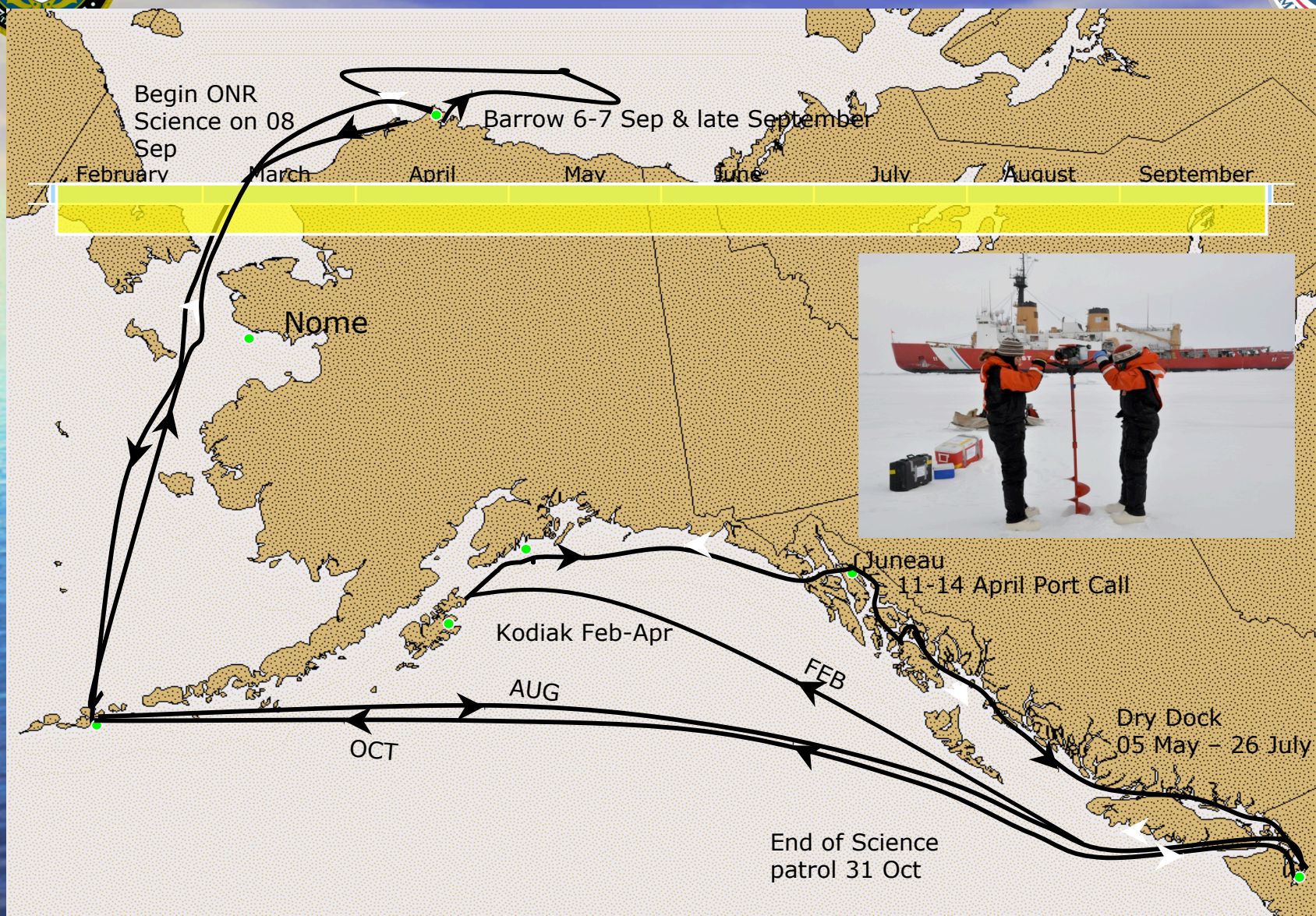
Native & Tribal Engagement

- Alaska has 229 of the 562 Federally Recognized Tribes
- Executive Order 13175 – Mandates Consultation and Coordination with Tribal Governments
- 13 Native Regional and 200 Village Corporations
- Coordination with City, Borough, State



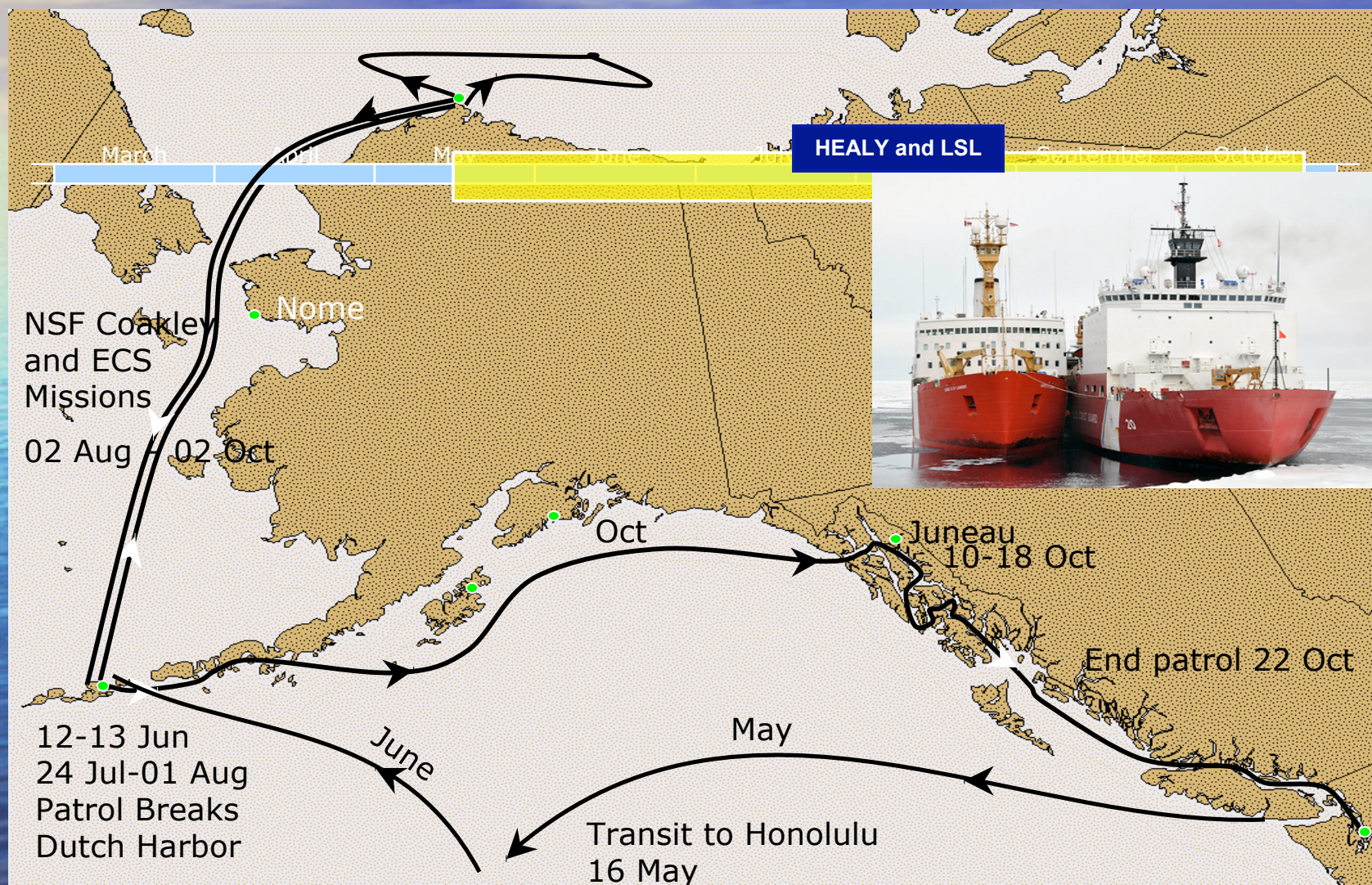


USCGC POLAR SEA 2010





USCGC HEALY 2010





ARCTIC CROSSROADS 2010

- Plan Development Underway:
 - Arctic Domain Awareness (ADA) Flights
 - CANUSNORTH Tabletop Exercise
 - Icebreaker Science Mission/Icebreaker Mobile Forward Operating Location
 - SORS Deployment North of the Arctic Circle
 - Water Safety & Young Alaskan Engagement
 - Continued Native Alaskan Engagement
- Total Scope of Operation Funding Dependent





ACHIEVING HORIZONS.

