

Electronic Systems Support Unit Seattle

US Coast Guard (MLC)

- USCGC HEALY – Actively operating for science work.
- USCGC POLAR SEA – Science Network (light version)
- USCGC POLAR STAR – Current plans uncertain.



Homeland
Security

June 3rd & 4th 2008

ESU Engineering Division

Polar Science Systems Branch

ESU – 24/7 contact phone number 1-800-982-2564

E-Mail Address: James.M.Wilson@USCG.mil

- Contact any time about any support issues
- We would like feedback from each cruise

Civilian Personnel

- James Wilson
- Dave Cohoe
- David Hassilev (North Star)
- Mike Merchant (North Star)

Military Personnel

- ETCS Michael Luna
- IT1 Jeff Doramus
- IT2 Donny Graham



ESU Operations Division Cutter Support Branch

ESU – 24/7 contact phone number 1-800-982-2564

E-Mail Address: Pete.J.Perron@USCG.mil

Military Personnel

Master Chief Pete Perron

Chief Joel Rodda

ET Support Team

June 3rd 2008



ESU Operations Division Cutter Support Branch

- Electronics support for the Integrated Bridge System, CASREP response and other electronic systems.

June 3rd 2008



Polar Science Systems Branch

What we do.

ESU collects scientific data during science cruises including transit legs while ship is underway from home port.

- 1. Provide Network Servers and RAID Servers for the collection of data.
- 2. Archive RAW cruise data on tape in CPIO format (most common format). Data held at ESU Seattle for one year.
- 3. Provide access for Scientist to the scientific data for post processing work.



Polar Science Systems Branch Infrastructure

ESU provides and supports a Science Network on science missions with the following basic infrastructure:

- 1. Servers platforms will provide:
User authentication, network monitoring, email, internet web access, Archiving and data acquisition
- 2. Support access to the network through wireless access points throughout the ship and provide General Purpose workstations for use.
- 3. Upgrade and maintain NOAA SCS (data collection) software, creating templates for all sensors aboard the ship.
- 4. Maintain Terascan Contract for all three Icebreakers and groom for ADCP's, Knudsen, and Seabeam.
- 5. Maintain and Support network peripherals:
Printers, USB devices, scanners and support equipment.



Polar Science Systems Branch

Our Intent on Science Support

Support current and develop future satellite connectivity wherever the Ice Breaker travels around the globe.

- 1. Support ship to shore communications (satellite).
- 2. Provide 24/7 support for LAN/WAN connectivity.
- 3. Maintain and Support:
Firewalls, Network, cables, fiber, switches, routers.
- 4. Engineer and develop future connectivity for Science Network aboard Ice Breakers.



Contract support staff.

Polar Icebreaker System Support contract

- North Star Technology Systems (ATG) started April 1st of 2008 to March of 2009 with 9 year option
 - David Hassilev and Mike Merchant contracts have been renewed.



Challenges

- Future needs for the POLAR SEA and POLAR STAR
- Budget challenges.
- Short versus long term requirements.

June 3rd 2008



Contacting me.

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ESU Engineering Division Chief

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June 3rd 2008



Home Port – Seattle, WA



June 3rd 2008

