

Electronic Support Unit (Base) Seattle

US Coast Guard (C4IT)

Polar IT Branch

Polar Icebreaker Support

USCGC HEALY – Actively operating for science missions

USCGC POLAR SEA – Pending

USCGC POLAR STAR – Currently dry docked in yards

All Electronics (Science Network) completed by
December 2012



Homeland Security

March 22nd and 23rd 2012

Wide Area Network (WAN)

USCGC HEALY

SeaTel 6009 (VSAT)

- 24/7 connectivity
- At 256K (burst 512K)

Provides Internet and e-mail

- Phone lines
 - CO
 - Chief Scientist
 - Onboard Tech
 - Two lines available for Sailor phone (phone cards)

IRIDIUM Reachback

- 24/7 E-mail connectivity
- High altitude connectivity
- E-mail and FTP

IRIDIUM OpenPort

- High altitude connectivity
- E-mail
- FTP Large Ice files
- Provided by NSF



Wide Area Network (WAN)

USCGC Polar Star

SeaTel 6009 (VSAT)

- 24/7 connectivity
- At 256K (burst 512K)
- Site Survey
 - March 26th
 - North Star
 - Naval Architect
 - MTN Government Services

IRIDIUM Reachback

- 24/7 E-mail connectivity
- High altitude connectivity
- E-mail and FTP

IRIDIUM OpenPort

- High altitude connectivity
- E-mail
- FTP Large Ice files
- Provided by NSF



Wide Area Network (WAN)

IRIDIUM OpenPort

- Temporary installed on HEALY
 - Connected to the Science Network
- Current Access
 - Science missions while underway in the high latitudes
 - Limited to 150mb a month
 - For large file transfers
 - For transfer of images
 - Ice Images

Blue River – Steel Head
Network Compression



Upgrades

Local Area Network (LAN)

USCGC HEALY

Project Update

■ UPS

- TCTO - The project is in the HQ Configuration Control Board.
- Change approval should be NLT 01APR
- Work will be coordinated with HEALY/ESU /NESU

■ VSAT (MET LAB) Ventilation

- A solution has been calculated for the ventilation fix
- A HVAC engineer will do a ship check prior to writing the spec
- May have to be next in-port before the spec is executed.



Local Area Network (LAN)

USCGC HEALY and POLAR STAR

- STARC
- SCS server
 - Data collection

USCGC POLAR STAR

- Map server
 - Populating data
 - Training



ESU Support - Science Network

Network equipment

- WAN
 - SeaTel 6009
 - IRIDIUM Reachback
 - Ship to shore connectivity
- LAN, WLAN, MESH, VLAN
 - Routers and Switches
 - Ship to ship connectivity
 - VoIP
 - Ship to shore connectivity

Servers

- User and E-mail accounts
- Life cycle upgrades
- Workstation
 - Life cycle upgrades

Printers

Warranties

Licenses

Domain maintenance and services

Supplies

Software

Hardware



Information Technology Division

Polar IT Branch

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

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

Questions or any support issues



Civilian Personnel

James Wilson



Dave Cohoe



Military Personnel

IT1 Eric Burns



IT1 Whitty



North Star Personnel

Sarah Kaye



Donny Graham



Frank Landy



Home Port – Seattle, WA

