

# HiSeasNet 2.0 2015 Review

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# 2015 Transitions and Highlights

- HiSeasNet Team Transition
- Network infrastructure Transition
  - New Q-Flex modems fully fielded on ships and shore
  - Bandwidth increased 4X at 2X price
  - All IP Architecture no more serial interfaces
- Comparison to U.S. Navy Commercial SatCom
- Network Operations and Support Transition
  - Shared situational awareness
  - Matrix Team Support Structure
- HiSeasNet Future Directions
  - Move from development phase to mature operations
  - Requirements driven

# Steve Foley — Heart and Soul of HiSeasNet Gentleman Farmer



- Architect, Engineer, and User Support for HiSeasNet for 13+ years
- Shipboard Technical Support Veteran
- Once an HiSeasNet Veteran – Always a HiSeasNet Veteran
- Semper fi





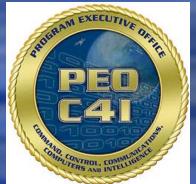
#### Kevin Walsh – Old New Guy



Library











**USS Bonhomme Richard LHD-6** 





### Please Be Patient

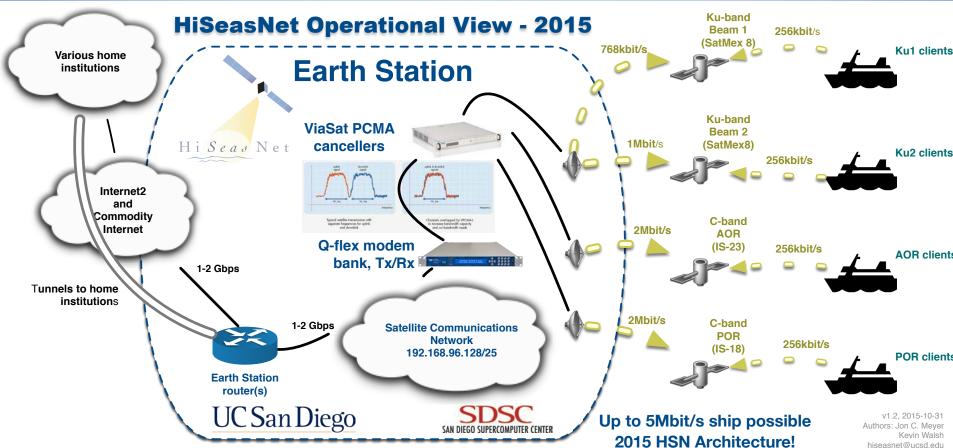


Patience is something you admire in the driver behind you, but not in one ahead.

Bill McGlashen

# HiSeasNet 2015 4X Performance Increase ++ IP





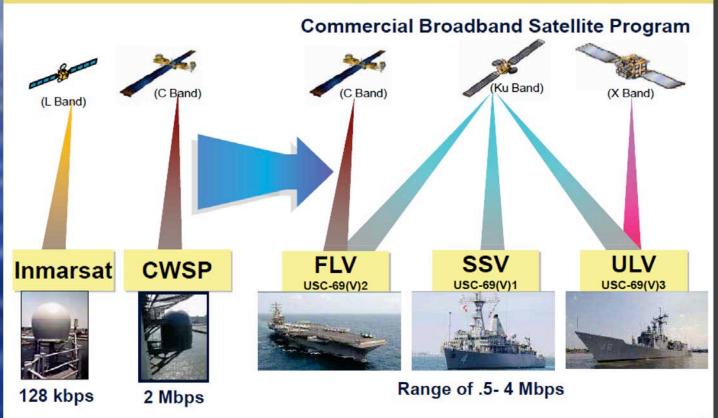
## HiSeasNet Compared to Navy





#### **Navy SATCOM Migration**

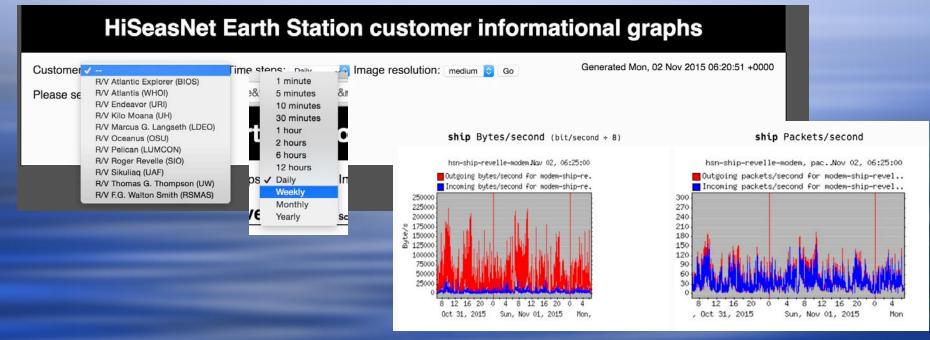


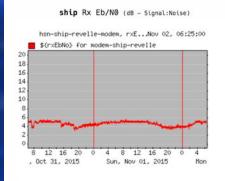


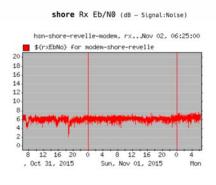


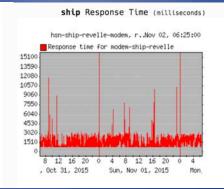
#### http://hiseasnet.ucsd.edu/customer/

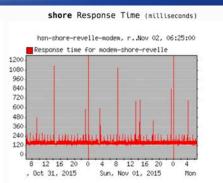








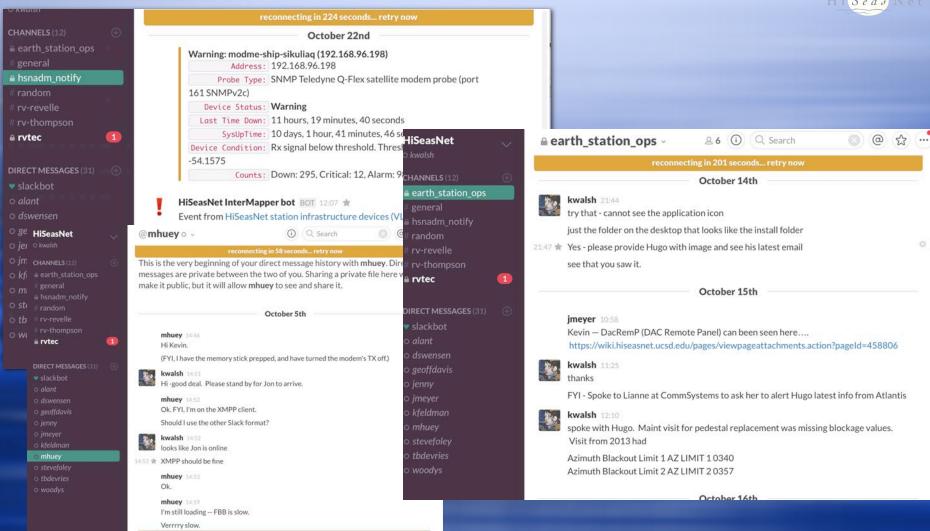




#### Slack -

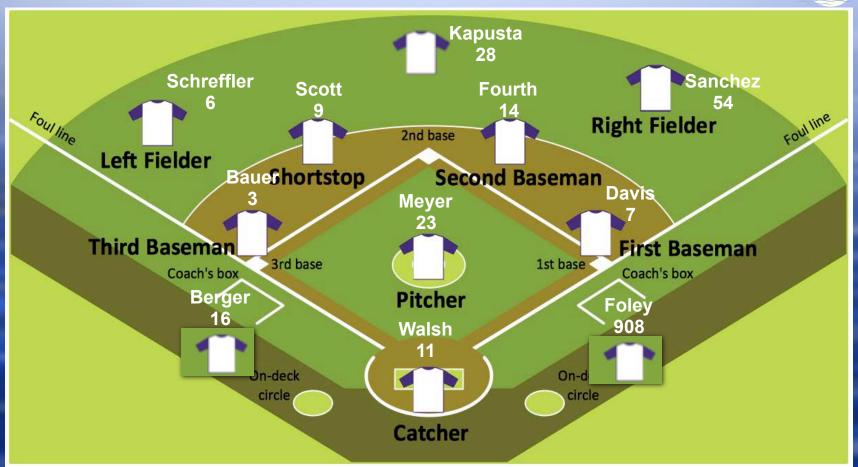
#### Collaboration and Situational Awareness





### HiSeasNet Support Team

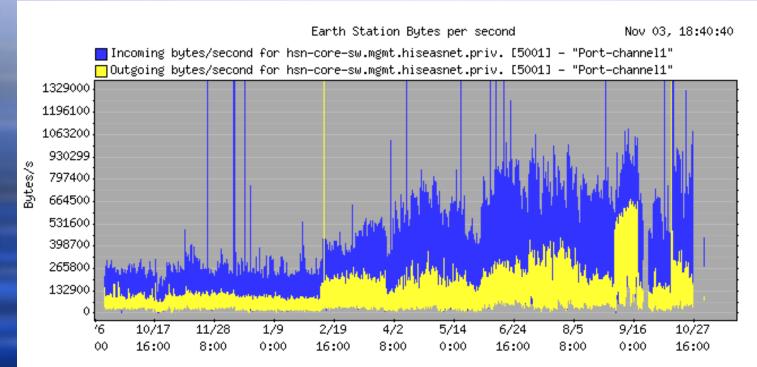




HiSeasNet Support Line (858)822-3356 hiseasnet@ucsd.edu

# HiSeasNet 2.0 — 4 X Bandwidth ++ IP What's Next?





**Fall 2014 Aggregate Utilization** 

Fall 2015 Aggregate Utilization

- Delivered 4X increase in bandwidth all IP
- No surprise ships use it
- What if another 2X?
- Target objective 15 Mbit?

# Take Aways for HiSeasNet 2.0

- New Q-Flex modems fully fielded on ships and shore
  - Bandwidth increased 4X at 2X price
  - Scalable Bandwidth Expansions
  - Enables new capabilities for scientific users
- All IP Architecture no more serial interfaces
  - Enables better remote support, monitoring and measurement
  - Leveraging UC San Diego and CENIC/ I2 network infrastructure
- Matrix Staff Support Mature operations posture
  - Leveraging skills and knowledge of staff across projects
  - Leveraging collaborative integrated systems management
  - Shared situational awareness and
  - Rapid response 7 days a week best effort
- HiSeasNet delivering mainstream maritime SatCom services tailored to Oceanographic research community
  - Future development to align with user requirements



Thank you for your attention.