WHAT TO EXPECT AS A SCIENTIST ON THE USCGC HEALY

Rebecca Woodgate and many others ...
** BASICS

** CG/UNOLS DIFFERENCES

** THINGS that need doing
Main Website (science and general) **www.icefloe.net**

- **Healy - Science Support**

- **Healy Science Support - Areas of interest**
  - Science Instrumentation & Sensors
  - Underway Seawater
  - Science Labs & Equipment
  - Coring
  - Science Winches
  - Navigation Equipment
  - Science Network & Computing
  - Vans & Van Storage
  - Cranes & Over The Side
  - Helicopter Support
  - Small Boat Support
  - Dive Support
  - Communications
  - Bow Tower
  - Seismics on Healy, HLY0503
  - Gravimeter Configuration 2004-2005
  - Electrical Power on Healy

- **List of Old Instrumentation Files**
USCGC Healy
- crew ~ 80
- science 35-50
- science equipment (see Dale’s talk)
- great work platform

Important to remember:
== BIG ship, so lines of communication are very important
== COASTGUARD ship, -“top-down” organization
- crew swaps out every 2-3 years.
WORKING WITH THE USCG
- pre cruise

(relevant people on land:
Healy Science Liaison/Science Coordinator - Dave Forcucci
NSF-funded Healy technical support – Dale Chayes
AICC (Arctic Icebreaker Coordination Committee)
(Other CG liaisons (for the Polars, Phil McGillivray, USCG))

USCG (Top-down) Hierarchy (as relevant to Science Ops)
CO – Commanding Officer (i.e. Captain)
XO – Executive Officer (second in command)
EO – Engineering Officer
OPS – Operations Officer

Deck Officers (on the bridge) including
MSO – Marine Science Officer – in charge of:
   MSTs (Marine Science Techs) with titles
   MSTC (chief), MST1, MST2, MST3 (3=least experience)

Other relevant people at sea:
Bosun – (deck operations, usually asked via OPS or MSO)
Medical Officer – (medical forms, on-board medical stuff)
# ARCTIC ICEBREAKER COORDINATING COMMITTEE (AICC)

UNOLS Charter - Annex VI

<table>
<thead>
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<th>Name</th>
<th>Email</th>
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<tbody>
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http://www.unols.org/committees/aicc

To facilitate science on the US Arctic Icebreakers
## Working with the USCG

### Pre Cruise

**Relevant people on land:**
- Healy Science Liaison/Science Coordinator - Dave Forcucci
- NSF-funded Healy technical support – Dale Chayes
- AICC (Arctic Icebreaker Coordination Committee)
- (Other CG liaisons (for the Polars, Phil McGillivary, USCG))

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  - MSTs (Marine Science Techs) with titles
  - MSTC (chief), MST1, MST2, MST3 (3=least experience)

**Other relevant people at sea:**
- Bosun – (deck operations, usually asked via OPS or MSO)
- Medical Officer – (medical forms, on-board medical stuff)

**Contacts:**
- *(Ship expects one main person as contact to the science party)*
- Before cruise planning meeting – mostly with Dave/Dale via the Chief Scientist
- After cruise planning meeting – with Dave/Dale and/or OPS/MSO but good idea to copy emails widely. *(Ask the ship how best to communicate with them.)*
### WORKING WITH THE USCG

- **at sea**

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<td>SHIP</td>
<td>Quarters - Daily meeting of ship’s crew on heli deck after lunch</td>
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<td>- science welcome,</td>
<td>good way of keeping up with what else is happening onboard</td>
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**SCIENCE**

- Nightly planning meetings
- Significant things – mostly OPS via Chief Sci
- Smaller things – to MSO(??) and MSTs? (but they may have to ask up the chain)
EXPECTED AND UNEXPECTED

- if they lack in experience, they make up for it in enthusiasm

- not the level of science support you get on a UNOLS ship, bring your own spares. If in doubt, ask (Dave/Dale).

- labeling on freight VERY important (many cruise legs a year) – HLY-07-01, plus colour coding

- pager system for scientists and crew

- many people on ship – other activities/ science outreach; hard work keeping everyone informed; white board for daily science, results, where-we’ve-been?

- science expected to help clean science spaces (materials supplied)

- HAZMAT rules – tighter than airfreight. If in doubt, ask (Dave/Dale).

- Native communities - [http://www.nsf.gov/od/opp/arctic/conduct.jsp](http://www.nsf.gov/od/opp/arctic/conduct.jsp) - assistance with this from AICC and NSF – Chief Sci to make contact?

- Other (bed linen, towels, outsized survival suits,)

- ???
THINGS THAT NEED DOING

= Cruise name HLY-07-01 (i.e. HLY-year-leg) – mark this on all forms!

= Cruise Planning Questionnaire – (Chief Scientist)
  - as soon as possible (can be modified as things change)
  - operational guide – (what science, what operations, loading info, how much freight, science equipment brought with you, science party details, links to native communities, ship equipment required, communications, etc)

= Pre Cruise meeting on the Healy/ in Seattle
  – December
  - meet with ship’s crew
  - at least a visit to the ship
  - TECHNICAL meeting, focused on logistics, bring your technical people

= Medical forms (pdf to be emailed/sent to ship)
= Shipping forms (including HAZMAT information), allowing you to track shipments to the Healy