

# Working Conditions

- Accessibility of ship provided equipment
- High contrast for deck obstacles
- Standardize data outputs- nav, meteo, lat/long
- Maintain line-of-sight in the labs
- Accessibility of navigation output
- Shipboard Van access – living and science

# Working Conditions

- Main Lab:
- Mount items within reach.
- Lab benches, lab sinks, and fume hoods should be lower –Adjustable sink heights?  
Portable hoods
- Lower Eye wash height / shower pulls
- Alarm/pull-down accessibility
- Improved lighting
- Make data available over the network

# Living Conditions

- Adequate Lighting
- Bunks restraints (rail?) are needed.
- Must have space for turning into staterooms from passageways
- Sliding pocket doors for staterooms
- Signage for thermostat controls
- Emergency procedure/manuals should be provided in a format that could be read by visually impaired (electronic)

# Safety

- Warning strips - Tack-tile stripping at the base and top of ladders, on weather deck edges.
- Railings at the start of ladders on both sides
- Adequate lighting all areas – especially at ladders
- Avoid trip hazards – high contrast
- Reduce passageway obstacles
- Establish an area of refuge/mustering area
- Warning system (door/tactile strip/contrast stripping) at the top of ladders?
- Bright color stripe at ladders
- Wider Range of Immersion Suits sizes needed

# Safety (continued)

- Door lips are needed.
- Fire pulls lower
- Axe – point protector
- Science users should be reminded to bring spare parts for wheel chairs and prosthesis.
- Hand rails/grab bars for wheel chair users

# All areas

- Adequate lighting
- Gangway – accessibility
- Audio signals (door open/close, etc)/ induction mechanisms
- Establish a pool of adaptive equipment (vans, wheelchairs, etc)
- Provide guidance for communicating with disabled persons for captain, crew, and marine tech support – this should be addressed in early stages of pre-cruise planning. Include this on the pre-cruise planning form.
- Incorporate ADA Accessibility and Procedures in the RVSS.
- **Signage needed – Implement throughout the ship. R216**

# Issues

- General Communications
- Immersion Suits - modification needed – customized for disabled
- Post “rescue” procedures
- Buddy System – investigate legal responsibilities
- Passageway widths and turn-around space.
- Elevator reliability
- Dogs – International Regulations
- Weight of doors can be an issue – investigate power assisted doors
- Tactile strips – upkeep/rust issues, consider diamond strips

# General Guidance

- Guidance:
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- - Learn from experience
- - Know your limitations
- - Communication (between all parties) is key.
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# Ship Visit

- Observations and suggestions:
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- Main Lab:
- - Some items mounted too high.
- - Lab benches, lab sinks, and fume hoods should be lower – all benches? All sinks? All hoods?
- - Eye wash height
- - Alarm accessibility
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- Ladders:
- - warning strips
- - lighting
- - gates

# Ship Visit

- Door lips are needed.
- Fire pulls lower
- Axe – point protector
- Science users should be reminded to bring spare parts for wheel chairs and prosthesis.
- Hand rails/grab bars for wheel chair users
- Dogs – International Regulations
- Bunks – sleeping restraints
- Must have space for turning into staterooms from passageways
- Sliding pocket doors for staterooms
- Weight of doors can be an issue.
- Tack tile strips – upkeep/rust issues, consider diamond strips

# Ship Visit

- Weight of doors can be an issue.
- Tack tile strips – upkeep/rust issues, consider diamond strips
- Guidance:
  - 
  - - learn from experience
  - - know your limitations
  - - communication is key.
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