IT Security
on
British Antarctic Survey Ships

SHHIPS

COMMUNICATIONS ONBOARD

- **VSAT 256 bps – BASnet**
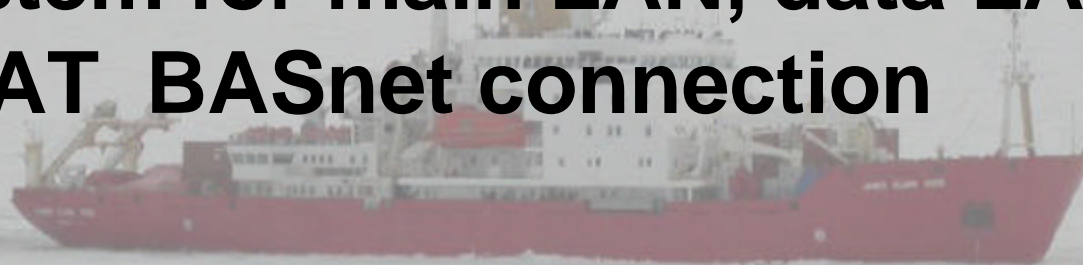- **Inmarsat B**
- **Iridium**

LAN ONBOARD

ES

- **Single LAN**

JCR

- **Logging network – no internet access**
- **Main network – Internet access**
- **Main file server linked to both networks**

FIREWALLS

- **At BAS Cambridge, UK**
- **Currently none on ships**
- **Proposal to install triple homed system for main LAN, data LAN and VSAT BASnet connection**

LAPTOPS

- **All windows machines checked for a current updating antivirus programme and windows update enable**
- **No checks on Macs and Linux Laptops**

DATA SOURCES

- **No checks on removable media including drives, USB external hard drives, CDs etc**

INTERNET ACCESS

- **All general purpose/personal computers have full access**
- **Restricted by bandwidth and Cambridge firewall**
- **BITE Project to control bandwidth and improve monitoring**

PROBLEMS

- **Viruses and Trojans**
- **Logging machines – antivirus and windows automatic updates**

CONCLUSION

- **Problems are manageable**
- **No communications access outside BASnet**