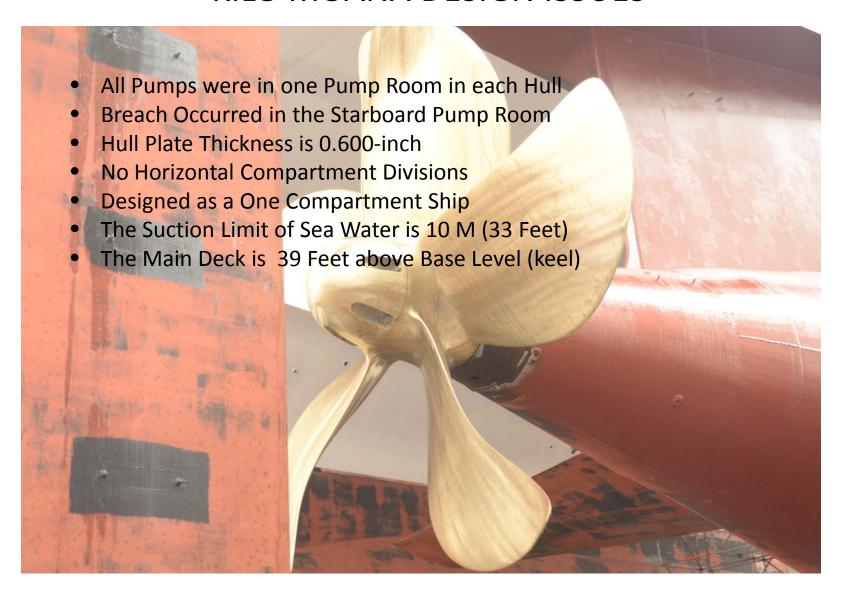


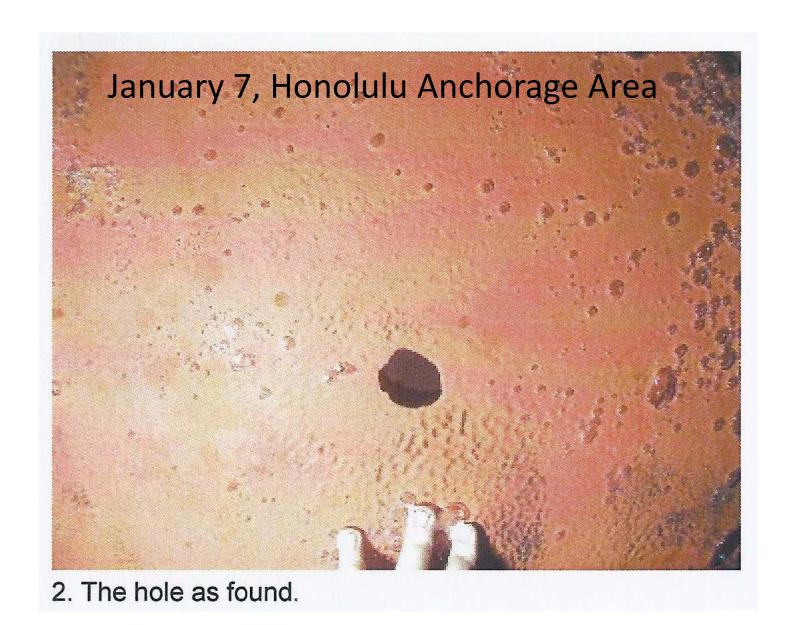
A PLATFORM ON TWO SUBMARINES



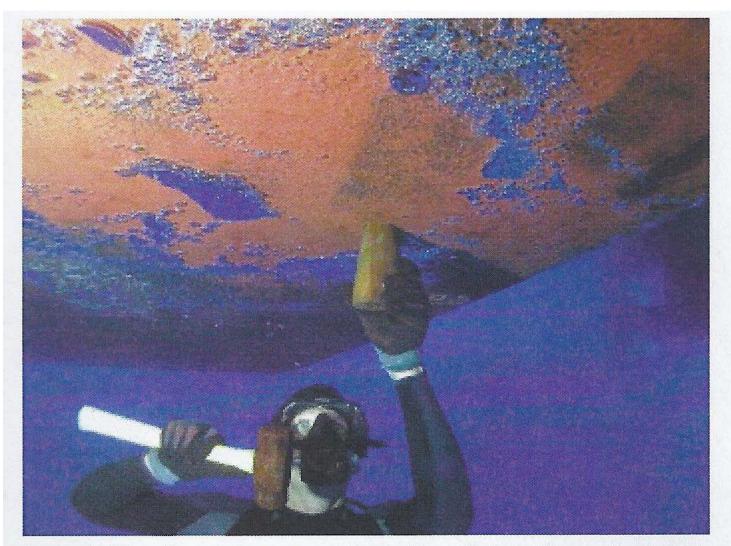


KILO MOANA DESIGN ISSUES

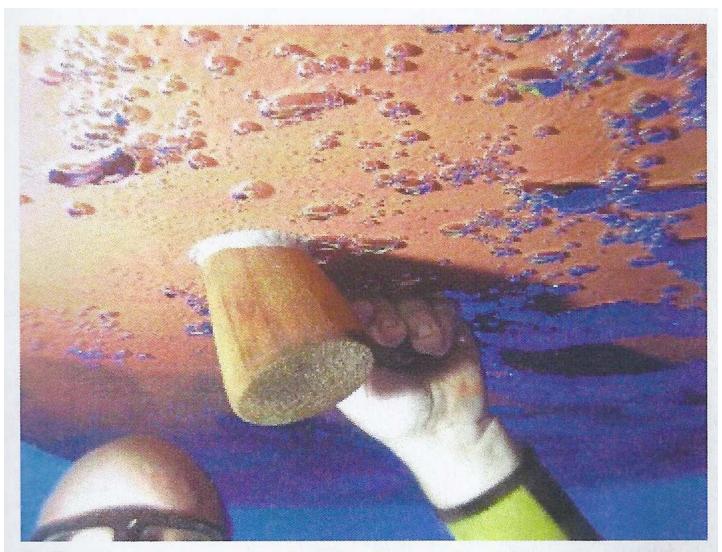




RVOC 2012 April 24-26 R. Hunt



3. Installing the damage control plug. Point of view is looking aft (the port running gear is visible in the background).



5. Duct seal was used to fill in the gaps at the edges of the hole. At this point water was no longer entering the hull.

Bilge deck with suction foot valve removed. Note coffer dam and plug.

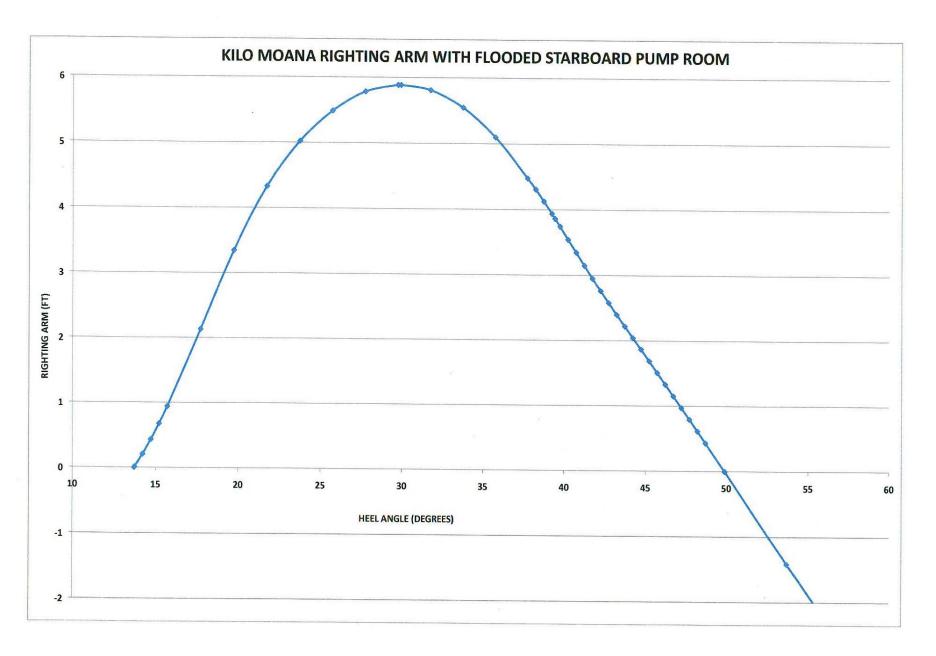


Causes?

- Galvanic Corrosion
- Electric Cell During High Velocity Flow
- Erosion
- Stray Currents
- Other Sites, only slight pitting

THE PLUGGED HOLE

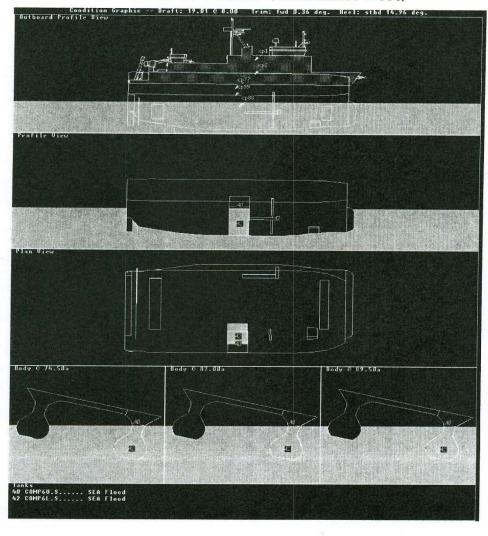




DAMAGE SCENARIO

** DAMAGE:

- 1. MACHINERY ROOM NO.3 (S) FLOODED. (PERMEABILITY = 95%)
- 2. PUMP ROOM NO.1 & ACCESS (S) FLOODED. (PERMEABILITY = 95%)



LESSONS LEARNED

- Mount pumps in other spaces
- Planersible electric pumps in the pump room
- Retain capability to shift ballast in a casualty
- Be careful how you use dissimilar metals

UT the hull, even on a relatively young hull



ALOHA AND MAHALO

