Hydrophones

Our hydrophones are a powerful tool for figuring out where we are in the water. Using 4 hydrophones, we can calculated our bearing to the pinger. For details, see Pinger Bearing.

Testing Procedure

Materials:

- 1 tub of water
- 1 pinger
- Hydrophone Test Rig

Test Rig:

- Pinger at one end of tub
- Hydrophones at other end of tub
- If lots of noise in readings observed, can place towels around tub

Procedure:

1. ssh into the sub
2. roslaunch robosub cobalt.launch
3. rosrund robosub pinger_bearing
4. rostopic echo /hydrophones/bearing
5. Manipulate hydrophones & Observe bearing readings