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- rosrun robosub pinger_bearing
4- rostopic echo /hydrophones/bearing
5- Manipulate hydrophones & Observe bearing readings
```