

# Hydrophones

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

## Testing Procedure

### Materials:

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

### Test Rig:

1. Pinger at one end of tub
2. Hydrophones at other end of tub
3. If lots of noise in readings observed, can place towels around tub

### Procedure:

1. ssh into the sub
2. roslaunch robosub cobalt.launch
3. rosrunc robosub pinger\_bearing
4. rostopic echo /hydrophones/bearing
5. Manipulate hydrophones & Observe bearing readings

From:  
<http://robosub-vm.eecs.wsu.edu/wiki/> - **Palouse RoboSub Technical Documentation**

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<http://robosub-vm.eecs.wsu.edu/wiki/cs/hydrophones/start?rev=1550806789>



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