

# 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:

- 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. rosrunc robosub pinger\_bearing
4. rostopic echo /hydrophones/bearing
5. Manipulate hydrophones & Observe bearing readings

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

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<https://robosub.eecs.wsu.edu/wiki/cs/hydrophones/start>

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