

Subject: TRANSPONDER MOORING (water depth 54m to 64m) (transponder range 27m to 32m)
From: Sean Patrick Whelan <swhelan@whoi.edu>
Date: 5/13/19, 5:36 PM
To: Brayton Pointner <theorymarine@gmail.com>, Amy Kukulya <akukulya@whoi.edu>

Hi Brayton

Some information on the (4) transponder moorings we will deploy. I will have a follow up email tomorrow sometime with information about the (3) modem buoys.

I have attached the transponder mooring drawing and chart of seep locations. It will give a sense of our operating area.

WHOI handling gear:

west coast quick release
3/8" chain grab
slip lines
crescent wrenches (other tools)
cotter pins
diagonal cutters
wrench for panther float stop
transponder clamp wrench
grapple hook and line
pickup poles
pickup snap hooks
yale grips
slings
shackles

Boat:

winch
a-frame
block (snatch, diameter?)
cleat on deck near stern for stopper lines and slip lines. Do have a 2' bolt pattern on deck?

TRANSPONDER MOORING (water depth 54m to 64m) (transponder range 27m to 32m)

Deploy:

Downwind from drop location, set boat into the wind with minimal headway speed. Deploy high flyer, 1 meter of 3/8" mooring chain, and 32 lb depressor weight with a controlled slip on the 100 meters of 3/8" Polytron. This slip can go out over the stern on a cleat or bit. Load will be minimal. Pass the 11" Panther float and transponder and continue to slip line. At the half meter of 3/8" anchor chain the mooring will be stopped off with a slip line. Tow to drop site. Verify depth. Clear slip line. Deploy 135lb Dor-Mor. Conduct

acoustic survey of deployed transponder.

Recovery:

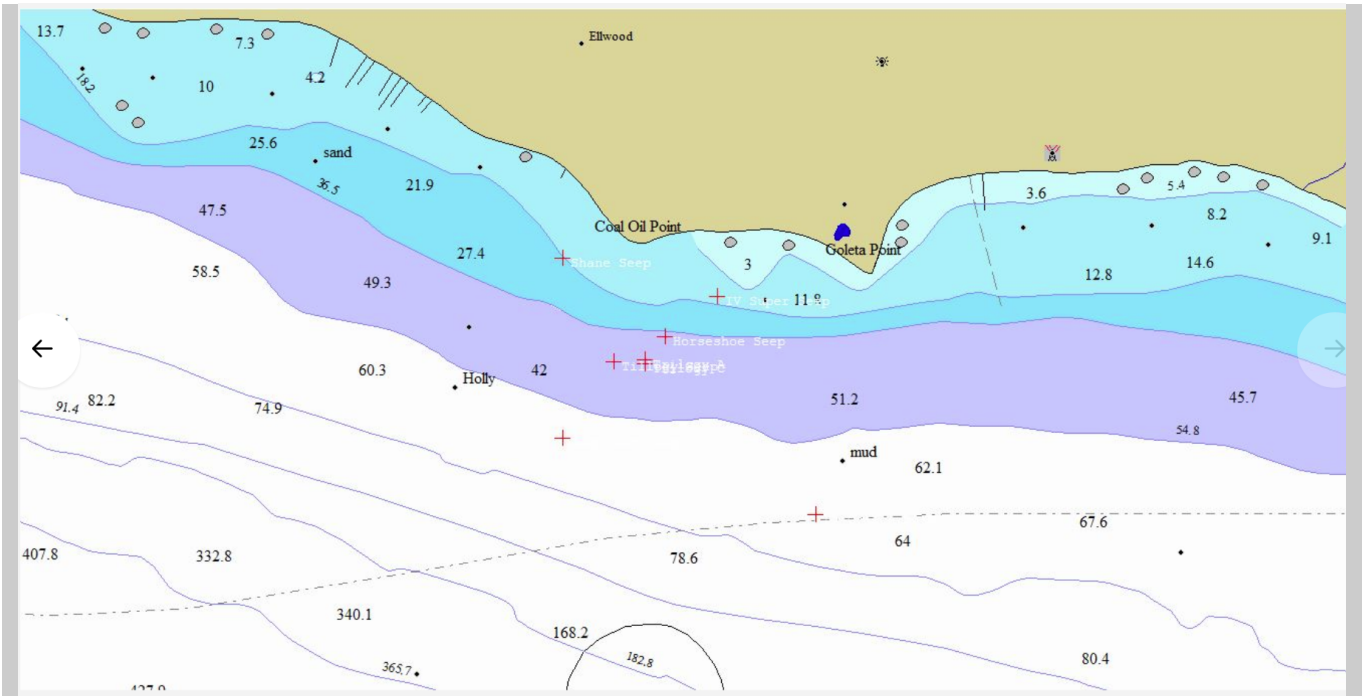
The vessel can approach into wind. Put high flyer on starboard aft quarter. Grab high flyer (or grapple) and pull around and through a-frame by hand. Stop the mooring with a slip line below 32 lb suppressor weight. Break mooring below suppressor weight. Move high flyer, chain, and weight out of the way. Shackle into the working line coming off the winch and down through the block on the a-frame. Transfer the load to the winch by slipping the stopper line. Haul up on the winch. Stop at 11" Panther float and loosen to allow it to slide down the line. Remove transponder. Float will slide down towards the anchor. Continue to haul in until anchor is in sight. If heavy seas, a check line can be hooked into the into 5/8" sling link or chain. Work winch and a-frame in unison to get anchor on deck in a controlled manner.

Just an initial plan- currents and wind may alter boat setup and approaches. Any comments or suggests welcomed.

Kind Regards,
Sean

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Attachments:

Screen Shot 2019-05-13 at 4.45.11 PM.png	1.0 MB
HighFlyer_Transponder-5.pdf	231 KB