



How NOT to deploy a POD!

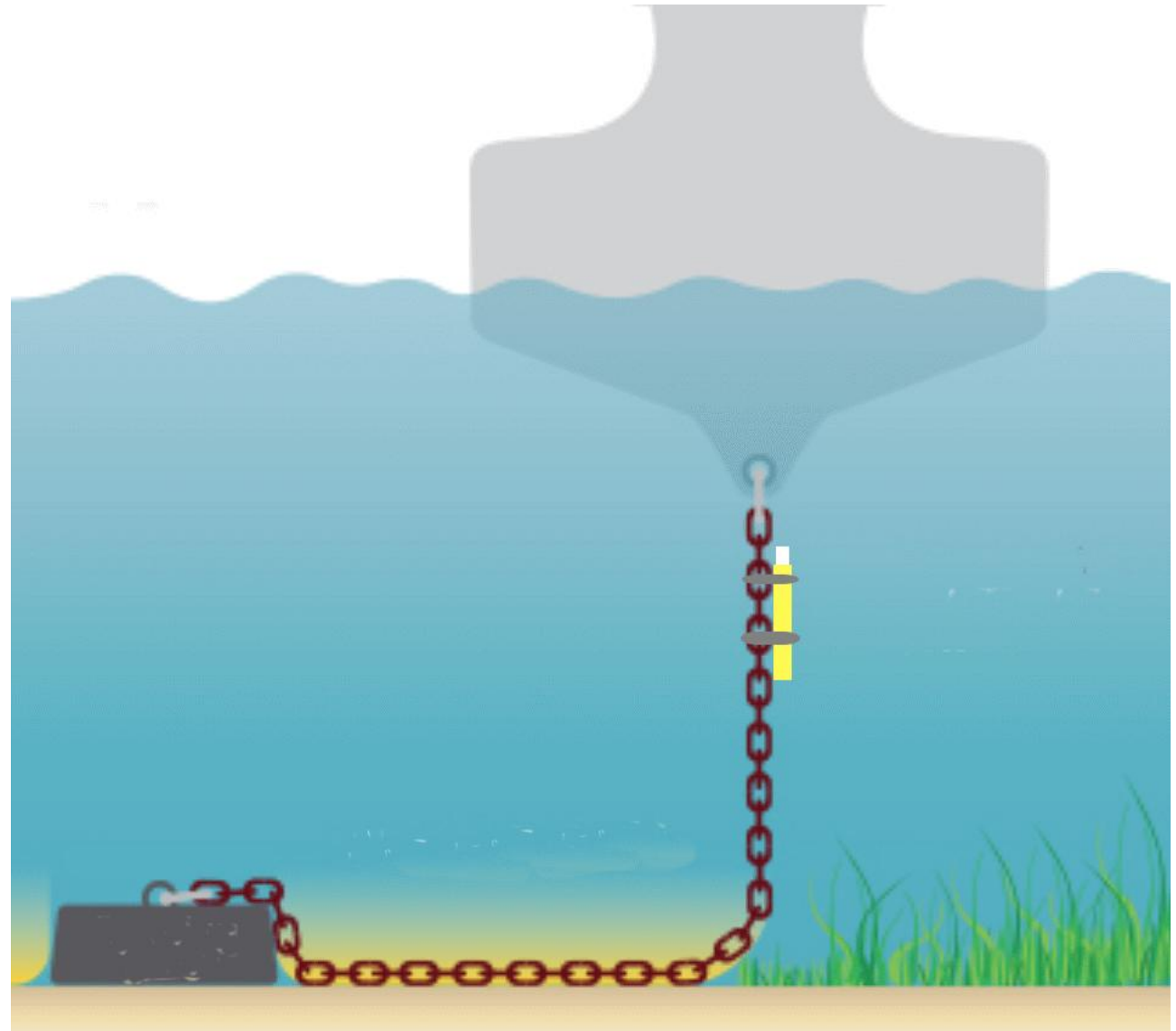
... some things to avoid

Galvanised chain



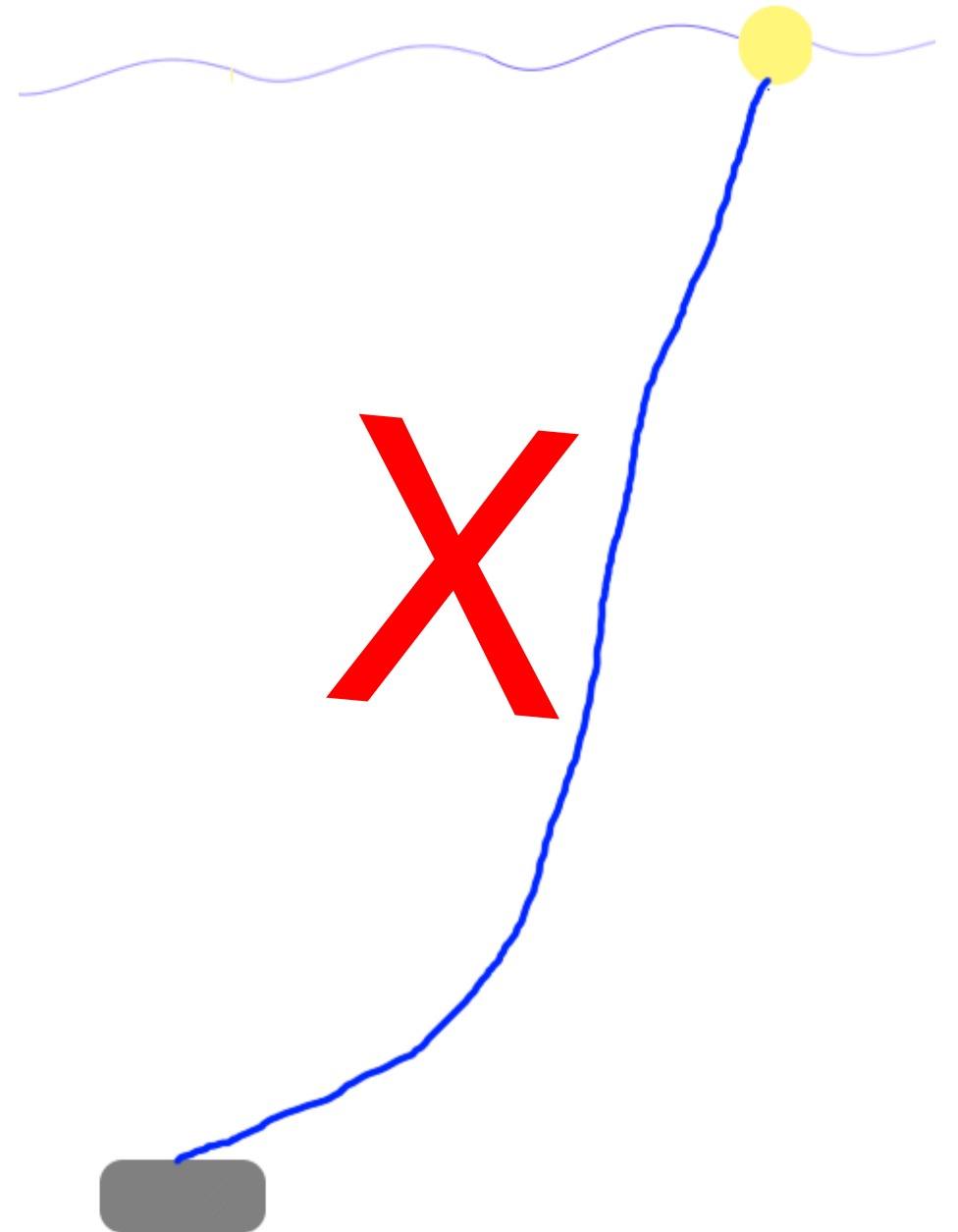
- light galvanised chain fails quickly if it is moving – which it will be if it is holding a POD.
- the movement accelerates corrosion.
- after the break the POD may still have too much chain to float free and be found stranded.

POD fixed to chain
mooring chain



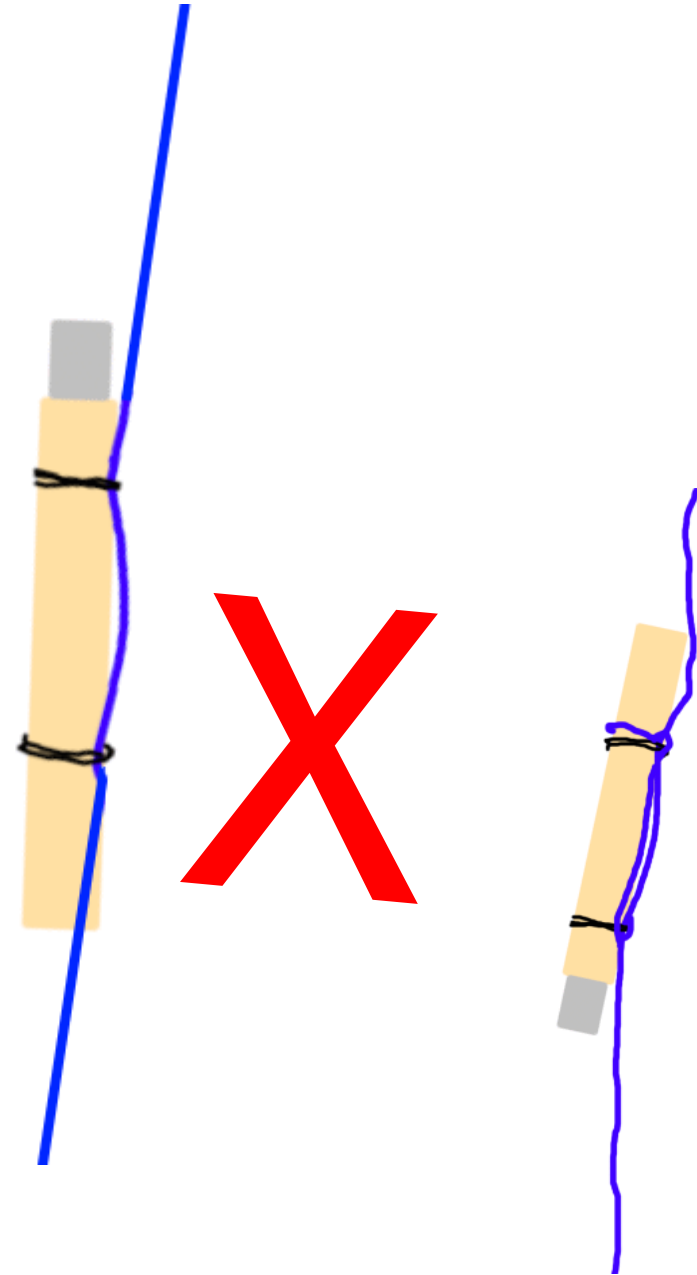
Lightweight simple mooring

- The weight of concrete in water is not much more than half its weight in air
- A mooring like this give waves a straight pull on the anchor
- ... the anchor walks along the sea bed if there are big waves



POD alongside a rope

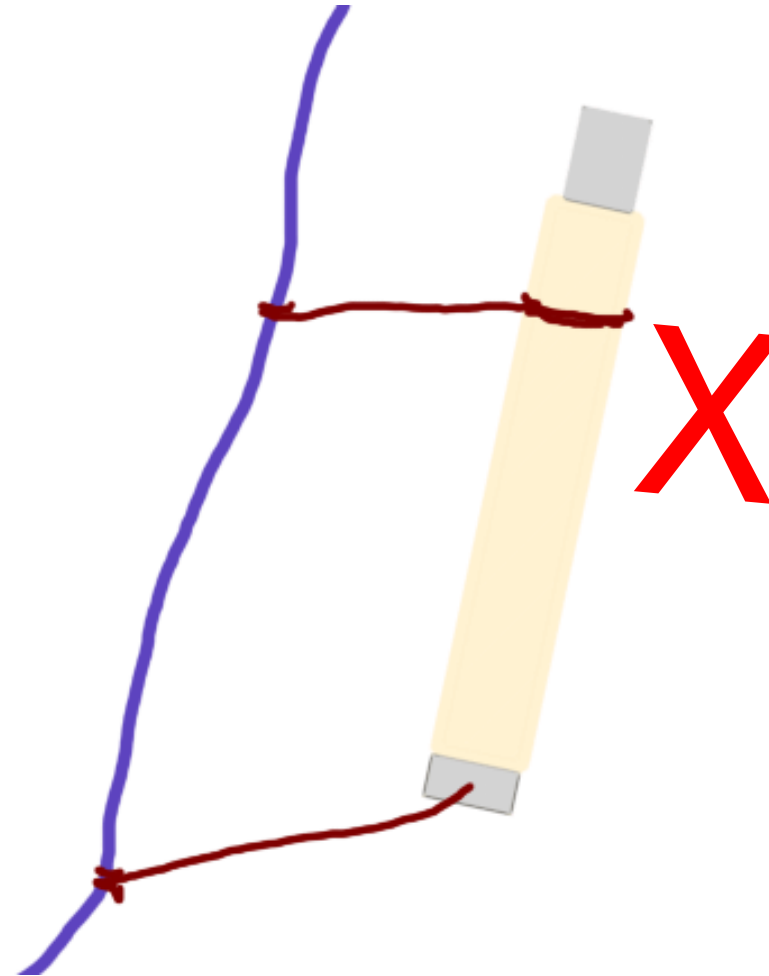
- the mooring line or any other rope can become looped around this:
- and the POD can even be upside down...
- the POD is forced to the angle of the rope or some other angle if tangled
- The rope can rub the hydrophone causing noise bursts
- this has happened so often the default switch angle has been changed from 'on above horizontal' to 'on at all angles'



security lines are risky

- Lines can wrap around as in the previous slide
- and if the lines are long enough the POD can even pass through the loop created
- if the line is slack it may rub against the hydrophone housing creating mysterious noise bursts
- Instead use a braided polyester rope, and use the 3 lid holes.

This attachment never slips and is simple: the rope goes through each hole in turn and then under the loop.





A longer video with ideas on moorings is here

<https://www.chelonia.co.uk/wp-content/uploads/2024/12/Mooring-PODs.pdf>

... and one slide from it follows ...

a basic elastic mooring

The 'elasticity' is this: when a wave pulls the buoys a series of events allow the rig to stretch:

- # the leaded rope is pulled up

- # the dive buoy sinks

- # the lifting weight rises - this is now very extreme

- # only then does the dead weight even dream of moving

When the wave passes all these reverse making it ready for the next wave

The POD floats up freely and the risk of tangling is low

The POD angle reflects the current speed which is useful

