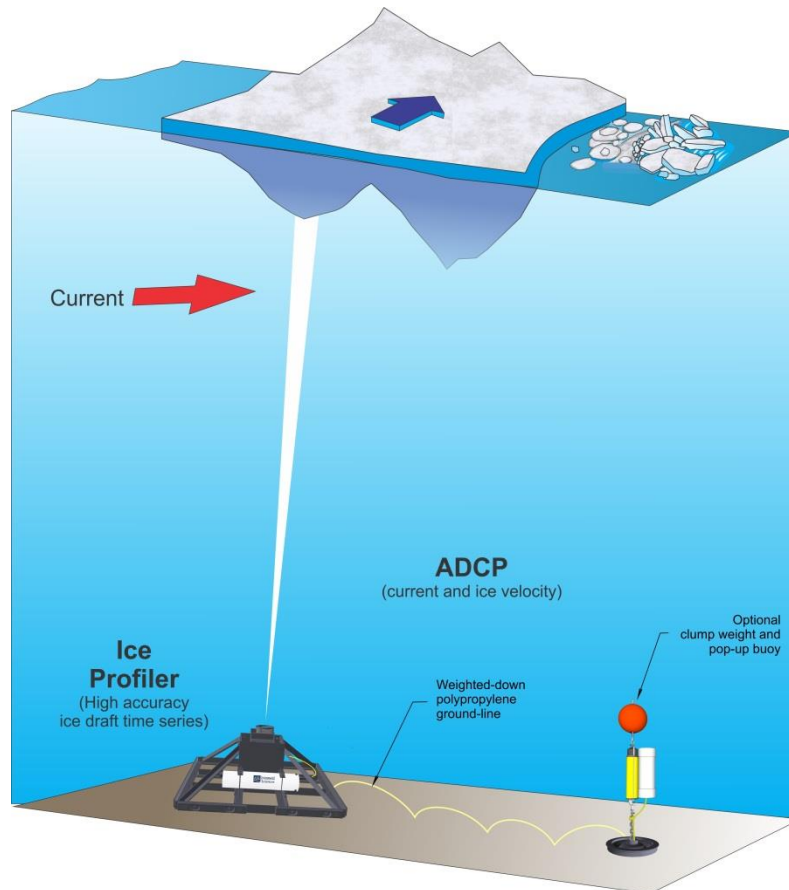


### Ice Profiling Sonar Bottom Mooring Arrangement



#### Notes:

- The bottom mooring configuration for the IPS is used in shallow waters to avoid ice contact with the instrument platform.
- The above diagram shows two alternate recovery methods: the weighted-down polypropylene ground line can be dragged up and the pop-up buoy can be activated with an acoustic signal.
- Careful siting is necessary to ensure minimal IPS instrument tilt (< 5 degrees). Design of the mooring components needs to ensure reliable mooring operation.
- Special caution needs to be taken in case of a soft bottom, strong tidal currents, local fishing activities or in the presence of a high sediment flux.
- Tilt-pingers are available from ASL Environmental Sciences to confirm right-side-up deployment.
- ASL Environmental Sciences offers several different proven “off-the-shelf” mooring solutions.
- Acoustic release, pinger, pop-up buoy and other equipment may be available from ASL Environmental Sciences on a lease basis.