

dotOcean Graviprobe 2 Free-Fall Cone Penetrometer (FF-CPT)

resg gear

Free-fall cone penetrometer for the rapid testing of seabed geotechnical properties in soft deposits. The probe is dropped from a vessel, accelerates under its own weight, and penetrates into seabed deposits, providing a profile of undrained shear strength and cone penetration resistance of the penetrated layers in their natural state.

- FF-CPT is operated by a free-fall winch
- One FF-CPT drop takes only a few minutes
- Penetration depth depends on the deposit type and ranges from a few centimeters in gravel and till to several meters in soft mud
- FF-CPT has acceleration and pressure sensors from which the geotechnical properties are derived
- Undrained Shear Strength (0-10 kPa)
- Cone Penetration Resistance (0-100 kPa)
- Ground-truthing of seismic sub-bottom profiles
- Graviprobe 2 at dotOcean web site



Onboard r/v *Geomari*

Geological Survey of Finland (GTK)

GTK