

Piezometer ST4-PZ2L-01B metadata

PI: S. Garziglia, Ifremer, France

Parameters:

- Sediment pore pressure
- Sediment temperature

Location:

Regional node: EMSO LIGURE NICE

Site: Nice continental shelf

Coordinates: N43°38.599 / E7°13.069

Depth: 31 m below sea-level

Deployment:

Cruise: STEP 2014

Date: 28/01/2014

Connection to EMSO-LIGURE NICE:

Date: 14/09/2016

Station: West

Port: 2 on junction box 1

Data management:

Daily data transmission

Full data storage in the communication and storage centre

Full data storage in the instrument

Instrument characteristics:

Model: V2 piezometer

Provider: NKE

Description: The piezometer had a 7.51 m long piercing lance along which six modules containing differential pressure and temperature sensors were mounted as follows:

Module N°	Depth below seafloor [m]	Parameters
1077	0.79	Sediment pore pressure (P1 in kilopascal) & Temperature (T1 in degree Celcius)
1091	2.34	Sediment pore pressure (P2 in kilopascal) & Temperature (T2 in degree Celcius)
1119	3.89	Sediment pore pressure (P3 in kilopascal) & Temperature (T3 in degree Celcius)
1123	4.69	Sediment pore pressure (P4 in kilopascal) & Temperature (T4 in degree Celcius)
1130	5.49	Sediment pore pressure (P5 in kilopascal) & Temperature (T5 in degree Celcius)
1166	7.04	Sediment pore pressure (P6 in kilopascal) & Temperature (T6 in degree Celcius)

Note that sediment pore pressure was measured relative to the water column pressure by P1 to P6 differential pressure sensors (PD-10LH/±2 Bar from Keller).

Differential pressure sensor range: ± 200 kPa

Differential pressure accuracy: ± 0.5 kPa

Temperature sensor range: 0°C to +50°C

Temperature sensor accuracy: ± 0.05 °C

Calibration: before deployment, 4-points calibration and zero checking

Sampling rate: 2 minutes