Piezometer ST4-PZ2L-03 metadata

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Parameters:

- Sediment pore pressure
- Sediment temperature

Location:

Regional node: EMSO LIGURE NICE

Site: Nice continental shelf

Coordinates: N43°38.595 / E7°13.060

Depth: 23 m below sea-level

Deployment:

Cruise: STEP 2014

Date: 28/01/2014

Connection to EMSO-LIGURE NICE:

Date: 13/09/2017

Station: East

Port: 1 on junction box 2

Data management:

Daily data transmission

Full data storage in the communication and storage centre

Full data storage in the instrument

Instrument characteristics:

Type: Differential pore pressure and temperature sensors

Model: V2 piezometer

Provider: NKE

Description: The piezometer had a 6.06 m long piercing lance along which seven modules containing differential pressure and temperature sensors were mounted as follows:

Module N°	Depth below seafloor [m]	Parameters
1145	0.79	Sediment pore pressure (P1 in kilopascal) & Temperature (T1 in degree Celcius)
1153	1.59	Sediment pore pressure (P2 in kilopascal) & Temperature (T2 in degree Celcius)
1154	2.39	Sediment pore pressure (P3 in kilopascal) & Temperature (T3 in degree Celcius)
1155	3.19	Sediment pore pressure (P4 in kilopascal) & Temperature (T4 in degree Celcius)
1156	3.99	Sediment pore pressure (P5 in kilopascal) & Temperature (T5 in degree Celcius)
1164	4.79	Sediment pore pressure (P6 in kilopascal) & Temperature (T6 in degree Celcius)
1165	5.59	Sediment pore pressure (P7 in kilopascal) & Temperature (T7 in degree Celcius)

Note that sediment pore pressure was measured relative to the water column pressure by P1 to P7 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