

## Piezometer MAR2-PZML-01 metadata

PI: S. Garziglia, Ifremer, France

### Parameters:

- Water column pressure
- Sediment pore pressure
- Sediment temperature

### Location:

Regional node: EMSO LIGURE NICE

Site: Nice continental shelf

Coordinates: N43°38.6279 / E7°13.1172

Depth: 19 m below sea-level

### Deployment:

Cruise: MaRoLiS 2021

Date: 16/07/2021

### Connection to EMSO-LIGURE NICE:

Date: 18/07/2021

Station: West

Port: 6 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: Absolute pressure, differential pore pressure and temperature sensors

Model: MACS piezometer

Provider: IFREMER

Description: The piezometer has a 7.51 m long piercing lance along which seven modules containing pressure and temperature sensors are mounted as follows:

<b>Module N°</b>	<b>Depth below seafloor [m]</b>	<b>Parameters</b>
660	0.79	Water column pressure (P1 in kilopascal) & Temperature (T1 in degree Celcius)
2030	2.38	Sediment pore pressure (P2 in kilopascal) & Temperature (T2 in degree Celcius)
1980	3.89	Sediment pore pressure (P3 in kilopascal) & Temperature (T3 in degree Celcius)
1990	4.79	Sediment pore pressure (P4 in kilopascal) & Temperature (T4 in degree Celcius)
1650	5.49	Sediment pore pressure (P5 in kilopascal) & Temperature (T5 in degree Celcius)
1700	7.04	Sediment pore pressure (P6 in kilopascal) & Temperature (T6 in degree Celcius)
630	7.07	Water column pressure (P7 in kilopascal) & Temperature (T7 in degree Celcius)

Note that water column pressure is measured by P1 and P7 absolute pressure sensors (PA-9LH/2 Bar from Keller) through the seawater-filled interior of the piezometer shaft while sediment pore pressure relative to the water column pressure is measured by P2 to P6 differential pressure sensors (PD-10LH/±2 Bar from Keller).

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

Sampling rate: 2 minutes