

# LÉXPLORE: available core dataset

## *Already functioning*

	Instruments	Parameters	Sensor type	Remarks
1	Meteostation	Temperature	Campbell Scientific Ltd	3 m above water
2		wind speed		3 m above water
3		wind direction		3 m above water
4		rainfall		3 m above water
5		Pressure		3 m above water
6		Solar radiation		3 m above water
7	Temperature chain 1	Temperature	RBR chain	0-20 m - 24 sensors every m
8	Temperature chain 2	Temperature	RBR chain	21-90 m - 24 sensors every 3 m
9	Mooring	Temperature	RBR, Vemco	0-30m, every 2.5 m
10		Dissolved oxygen	MiniDOt, RBR	2.5m, 5m, 10m, 15m, 20m, 30m, 50m, 100m
11		Photosynthetically active radiation (PAR)	Licor - RBR	0.5m, 2.5m, 5m, 10m, 20m, and 30m
12		pH	EXOsonde YSI	at 2.5 m
13		Chlorophyll a	EXOsonde YSI	at 2.5 m
14		Turbidity	EXOsonde YSI	at 2.5 m
15		Conductivity	EXOsonde YSI	at 2.5 m
16	ADCP	Current velocity	RDI 600 kHz	8 top meters
17	CTD profiles	Pressure -> depth	Sea and Sun	0 to 105 m, manual profiles when on-site
18		Temperature		
19		Dissolved oxygen		
20		pH		
21		Chlorophyll a		
22		Turbidity		
23		Conductivity		

## *Data from Thetis can be guaranteed until mid 2021, but will need to be evaluated after*

24	Vertical profiler Thetis	Pressure -> depth	SeaBird SBE49	50 to 0.5 m, within the protected circle, every 3 h with gaps for maintenance and problem shooting
25	Vertical profiler Thetis	Conductivity	SeaBird SBE49	
26	Vertical profiler Thetis	Temperature	SeaBird SBE49	
27	Vertical profiler Thetis	Dissolved oxygen	SeaBird Optical SBE63	
28	Vertical profiler Thetis	Photosynthetically active radiation (PAR)	WetLabs ECO PARS	

## *Planned in the near future*

29	Idronaut	Pressure -> depth	OCEAN SEVEN 316Plus	0 to 60 m, twice daily automatically from the platform
30		Temperature	OCEAN SEVEN 316Plus	
31		Conductivity	OCEAN SEVEN 316Plus	
32		Dissolved oxygen	OCEAN SEVEN 316Plus	
33		pH	OCEAN SEVEN 316Plus	
34		Chlorophyll a	Chelsa Trilux Fluorimeter	
35		Photosynthetically active radiation (PAR)	LI-193SA spherical quantum sensor	
36	Trios Ramses (air)	Downwelling irradiance, Upwelling radiance	Ramses - 3 sensors	for remote sensing