LéXPLORE: available core dataset

Already functionning

	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
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		
24	Idronaut	Pressure -> depth	OCEAN SEVEN 316Plus	0 to 60 m, twice daily automatically from the platform
25		Temperature	OCEAN SEVEN 316Plus	
26		Conductivity	OCEAN SEVEN 316Plus	
27		Dissolved oxygen	OCEAN SEVEN 316Plus	
28		pH	OCEAN SEVEN 316Plus	
29		Chlorophyll a	Chelsa Trilux Fluorimeter	
30		Photosynthetically active radiation (PAR)	LI-193SA spherical quantum sensor	

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

31	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
32	Vertical profiler Thetis	Conductivity	SeaBird SBE49	
33	Vertical profiler Thetis	Temperature	SeaBird SBE49	
34	Vertical profiler Thetis	Dissolved oxygen	SeaBird Optical SBE63	
35	Vertical profiler Thetis	Photosynthetically active radiation (PAR)	WetLabs ECO PARS	

Planned in the near future

36	Trios Ramses (air)	Downwelling irradiance, Upwelling radiance	Ramses - 3 sensors	for remote sensing