Acoustic Listening stations coordinates

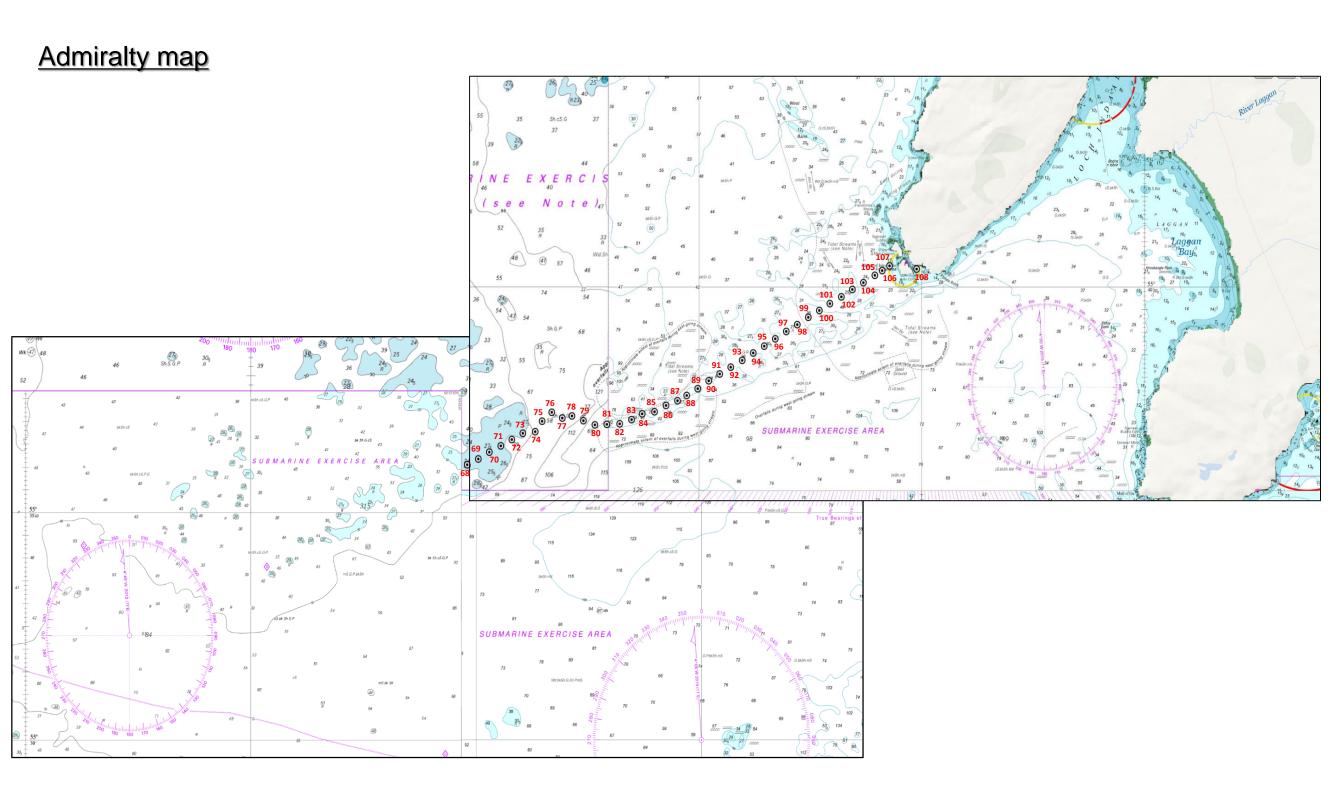
55°37'54.46"N

90

id	Lat	Lon	id	Lat	Lon
68	55°36'2.28"N	6°50'22.89"W	91	55°38'3.65"N	6°39'2.94"W
69	55°36'10.94"N	6°49'53.25"W	92	55°38'13.14"N	6°38'33.26"W
70	55°36'19.74"N	6°49'22.80"W	93	55°38'21.95"N	6°38'2.71"W
71	55°36'28.12"N	6°48'52.85"W	94	55°38'31.58"N	6°37'32.60"W
72	55°36'36.57"N	6°48'22.74"W	95	55°38'41.02"N	6°37'2.57"W
73	55°36'45.09"N	6°47'53.22"W	96	55°38'50.82"N	6°36'33.23"W
74	55°36'47.13"N	6°47'20.10"W	97	55°39'0.41"N	6°36'3.87"W
75	55°37'1.31"N	6°47'1.33"W	98	55°39'9.50"N	6°35'34.11"W
76	55°37'13.01"N	6°46'35.35"W	99	55°39'19.16"N	6°35'4.67"W
77	55°37'5.55"N	6°46'6.56"W	100	55°39'28.34"N	6°34'35.28"W
78	55°37'7.83"N	6°45'41.43"W	101	55°39'37.51"N	6°34'5.72"W
79	55°37'1.86"N	6°45'10.35"W	102	55°39'46.70"N	6°33'35.87"W
80	55°36'55.97"N	6°44'38.59"W	103	55°39'56.30"N	6°33'6.32"W
81	55°36'57.05"N	6°44'6.42"W	104	55°40'5.36"N	6°32'36.20"W
82	55°36'57.32"N	6°43'32.75"W	105	55°40'14.64"N	6°32'5.69"W
83	55°37'3.28"N	6°43'0.66"W	106	55°40'21.29"N	6°31'45.74"W
84	55°37'10.81"N	6°42'31.28"W	107	55°40'27.32"N	6°31'25.44"W
85	55°37'13.50"N	6°41'58.31"W	108	55°40'23.01"N	6°30'12.63"W
86	55°37'21.86"N	6°41'27.57"W			
87	55°37'28.30"N	6°40'56.39"W			
88	55°37'34.95"N	6°40'32.41"W			
89	55°37'44.61"N	6°40'2.86"W			

6°39'32.84"W





All parts of the mooring and floatation system



The floatation system in operation after acoustic release mechanism is activated

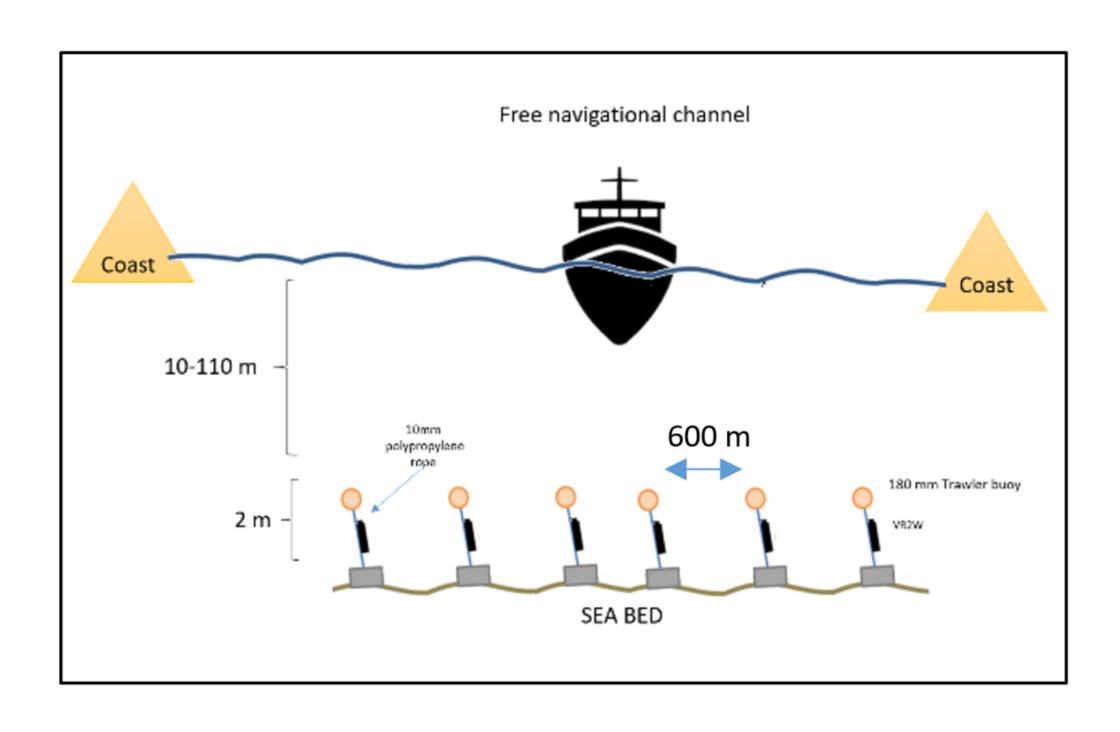


The floatation system at surface awaiting recovery

by grappling hook or gaff between the two buoys to insure the VR2AR unit is not damaged by the hook



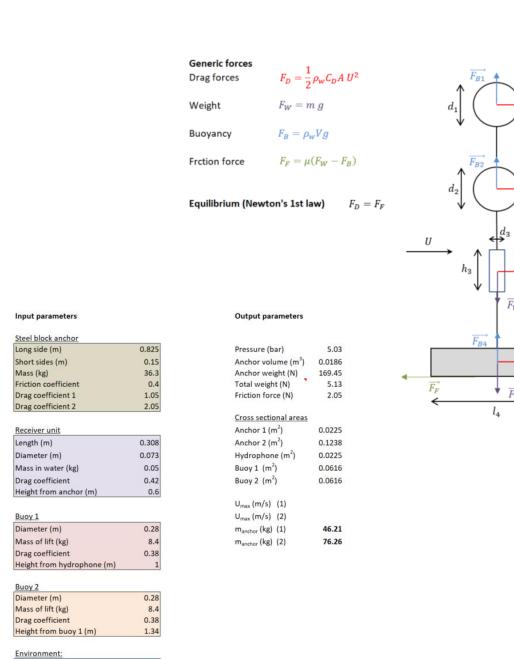
Configuration of the array on the sea bed



Forces involved in the displacement of acoustic receivers under the water

The deployment of acoustic arrays requires the calculation of forces involved in the displacement of mooring, floats and receivers under the water.

Modelling carried out by the SeaMonitor project suggest that mooring weights >70Kg will enable the deployment of receivers in the majority of the areas to be covered by the project



1025

50

Water density (kg/m³) Water depth (m)

Water velocity (m/s)

$$\begin{array}{lll} \text{Specific forces:} & F_{D1} = \frac{1}{2} \rho_{w} C_{D1} \, \pi \frac{d_{1}^{2}}{4} \, U^{2} \\ & F_{D2} = \frac{1}{2} \rho_{w} C_{D2} \, \pi \frac{d_{2}^{2}}{4} \, U^{2} \\ & F_{D3} = \frac{1}{2} \rho_{w} C_{D3} \, h_{3} d_{3} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2} \, U^{2} \\ & F_{D4}^{(2)} = \frac{1}{2} \rho_{w} C_{D4}^{(2)} \, h_{4}^{2$$