Ingesting object data from a CMAR sources

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1 Introduction

Members of Centre for Marine Applied Research (CMAS) sent me information on their mooring equipment, in a combination of emails and a csv file. For details of how I processed these, see the `work/cmar.R` and `work/Makefile` files.

The results of the processing are as follows, with buoyancy in kg, distance in metres, and area in square metres. All these entries are incorporated into the built-in objects.

Table 1: Contents of the `anchors_cmar.csv` file.

name	buoyancy	height	area	CD	code	source	originalName
1 rotor	-6.953	0.06350	0.01854	1.3	NA	CMAR	-
2 rotor	-13.907	0.07874	0.03708	1.3	NA	CMAR	-
3 rotor	-20.860	0.09398	0.05563	1.3	NA	CMAR	-
4 rotor	-27.814	0.10922	0.07417	1.3	NA	CMAR	-
5 rotor	-34.767	0.12446	0.09271	1.3	NA	CMAR	-
6 rotor	-41.720	0.13970	0.11125	1.3	NA	CMAR	-
7 rotor	-48.674	0.15494	0.12979	1.3	NA	CMAR	-
8 rotor	-55.627	0.17018	0.14834	1.3	NA	CMAR	-
9 rotor	-62.580	0.18542	0.16688	1.3	NA	CMAR	-
10 rotor	-69.534	0.20066	0.18542	1.3	NA	CMAR	-

Table 2: Contents of `floats_cmar.csv` file.

name	buoyancy	height	area	CD	code	source	originalName
14in centre hole tfloat	18.040	0.356	0.099315	1.3	NA	CMAR	14in centre hole tfloat
11in centre hole tfloat	7.770	0.279	0.061312	1.3	NA	CMAR	11in centre hole tfloat
8in centre hole tfloat	2.752	0.203	0.032429	1.3	NA	CMAR	8in centre hole tfloat

Table 3: Contents of `instruments_cmar.csv` file.

name	buoyancy	height	area	CD	code	source	originalName
Hobo Temp U22	0.0133	0.114	0.003420	1.3	NA	CMAR	Hobo Temp U22
Hobo DO U26	-0.0130	0.267	0.010561	1.3	NA	CMAR	Hobo DO U26
aquaMeasure SAL	-0.3000	0.386	0.024704	1.3	NA	CMAR	aquaMeasure SAL
aquaMeasure DOT	-0.1540	0.274	0.013700	1.3	NA	CMAR	aquaMeasure DOT
aquaMeasure CHLA	-0.4000	0.574	0.036736	1.3	NA	CMAR	aquaMeasure CHLA
VR2AR reciever	-0.5000	0.401	0.032481	1.3	NA	CMAR	VR2AR reciever

Table 4: Contents of `wires_cmar.csv` file. Note that long names are shown in two lines, and that the headers for `buoyancyPerMeter` and `areaPerMeter` are mashed together in the PDF version of this `README.Rmd` file.

name	buoyancyPerMeterareaPerMeter	CD	code	source	originalName
3/8in leaded polypropylene	-0.0177 0.009525	1.3	NA	CMAR	3/8in leaded polypropylene