Description datafiles: “Understanding the invasiveness of the Australian swamp stonecrop (Crassula helmsii)”

Field study relating cover of invasive Crassula helmsii to environmental variables, soil and water chemistry and vegetation cover.

There are three datafiles:

2024_VanKleef_Study_sites: contains information on site name, country where data was gathered, coding of samples taken on that site and coordinates.

2024_VanKleef_Various_data:

Code:	Locality code, see S1 for coordinates and full names
AT:	Nature of the site. A: aquatic growth site; T: terrestrial
NL_UK:	Country of sampling. NL: Netherlands; UK: United Kingdom
CAT:	Category of crassula cover. ALOW: aquatic site cover less than 50%; AHIGH: aquatic site cover more than 50%; TLOW: terrestrial site cover less than 50%; THIGH: terrestrial site cover more than 50%;
WC_BIOMASS16_19:	Biomass of crassula in gr DW/m2 in 2016 (NL-sites) or 2019 (UK-sites)
WC_COVER16_19:	Cover of crassula in % in 2016 (NL-sites) or 2019 (UK-sites)
NS_COVER16_19:	Cover of native species in % in 2016 (NL-sites) or 2019 (UK-sites)
NS_RICHNESS16_19:	Number of native species in relevées in 2016 (NL-sites) or 2019 (UK-sites)
WC_BIOMASS20:	Biomass of crassula in gr DW/m2 in 2020 (NL-sites)
WC_COVER20:	Cover of crassula in % in 2020 (NL-sites)
NS_COVER20:	Cover of native species in % in 2020 (NL-sites)
NS_RICHNESS20:	Number of native species in relevées in 2020 (NL-sites)
COMM_BEFORE:	Plant community in 2016 (NL-sites)
COMM_AFTER:	Plant community in 2020 (NL-sites)
ELLENBERG:	Average Ellenberg value of plant species in the relevée
SW_PH:	pH of surface water
SW_ALK:	Alkalinity of surface water in meq/l
SW_TIC	:Concentration total inorganic carbon of surface water in µmol/l
SW_CO2:	Concentration CO2 of surface water in µmol/l
SW_HCO3:	Concentration HO3 of surface water in µmol/l
SW_NO3:	Concentration NO3 of surface water in µmol/l

SW_NH4:	Concentration NH4 of surface water in µmol/l
SW_tN:	Concentration nitrogen of surface water in µmol/l
SW_TP:	Concentration phosphorus of surface water in µmol/l
S_ORGMATTER_1920:	Organic matter content of soil in %
S_NO3_1920:	Concentration NO3 of soil in µmol/g DW soil
S_NH3_1920:	Concentration NH4 of soil in µmol/g DW soil
S_tN_1920:	Concentration nitrogen of soil in µmol/g DW soil
S_P_1920:	Concentration phosphorus of surface water pH in µmol/g DW soil

2024_VanKleef_Vegetation_data:

First column:	Locality code, see “2024_VanKleef_Study_sites” for coordinates and full names
Second column:	Nature of the site. A: aquatic growth site; T: terrestrial
Third column:	Month of vegetatie census
Fourth column:	Year of census
Other columns:	Cover of plant species in % surface area

Description on data collection and analyses can be found in our paper “Understanding the invasiveness of the Australian swamp stonecrop (Crassula helmsii)”.