

ReadMe - S_plant_abundance

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14.12.2021

1 Protocol

Data have been measured following the COAT protocol 'Protocol_S_vegetation_vascular_plant_abundance_observational'.

2 Description of the dataset

The dataset includes one type of files and all files are saved as ;-separated txt-files:

- One data file per year (_YEAR.txt)

2.1 S_vegetation_vascular_plant_abundance__YEAR.txt

These files contain the number of hits of vascular plants per 12 pins in a 0.5 x 0.5 m plots in vegetation monitoring sites. Each line represents one plot and the abundances for the selected plant groups in the given year.

Example of the first rows of the data files:

```
sn_region sn_locality sn_section sn_group_of_sites_spatial
1 svalbard adventdalen endalen 1
2 svalbard adventdalen endalen 1
3 svalbard adventdalen endalen 1
sc_type_of_sites_ecological sn_site sn_plot t_year t_date v_observer
1 disturbed_moss_tundra adv_end_1_dis_1 e4 2018 <NA> ie
2 disturbed_moss_tundra adv_end_1_dis_1 e4 2018 <NA> ie
3 disturbed_moss_tundra adv_end_1_dis_1 e4 2018 <NA> ie
v_number_of_pins v_functional_group v_plant_part v_abundance v_comment
1 12 bis_viv reproductive 0 NA
2 12 bis_viv vegetative 0 NA
3 12 broad_leaved_grasses reproductive 1 NA
```

Description of the columns included in the data files:

Column name	Description	Possible values
sn_region	Study region	svalbard
sn_locality	Study locality	adventdalen, alkhornet, broggerhalvoya, sassendalen
sn_section	Study section	endalen, janssonhaugen, alkhornet, leinstranda, simlestupet, gjelhallet, hanaskogdalen
sn_group_of_sites_spatial	Study sub-area	[numeric]
sc_type_of_sites_ecological	Habitat type	disturbed_moss_tundra, dryas_heath, moss_tundra
sn_site	Site ID	[character]
sn_plot	Plot ID	e4, e6, n2, n4, s2, s4, w4, w6, e2, n6, n8, s6, w2, s10, s8, w8, e8
t_year	Year of survey	[YYYY]
t_date	Date of survey	[YYYY-MM-DD]
v_observer	Observer first and last name initial	ie, ip, vr, ha, ab, ch, jm, fs, stp
v_number_of_pins	Number of pins in point frame	N = 12
v_functional_group	Functional plant group	bis_viv, broad_leaved_grasses, dry_oct, oxy_dig, sal_pol, sedges_rushes, small_forbs
v_plant_part	Plant part where pin hit	reproductive, vegetative
v_abundance	Number of pits per 12 pins	[numeric]
v_comment	Comments	[character]

2.2 S_vegetation_vascular_plant_abundance__coordinates.txt

This file contains the coordinates of all sites included in the study design. Coordinates are given in decimal degrees and UTM 33 (WGS 84).

Example of the first rows of coordinate files:

```
      sn_site  e_utm33  n_utm33    e_dd    n_dd
1 adv_end_1_dis_1 518757.4 8679698 15.82100 78.18994
2 adv_end_1_dry_1 518677.8 8679396 15.81733 78.18723
3 adv_end_1_mos_1 518653.9 8679630 15.81642 78.18934
```

2.3 S_vegetation_vascular_plant_abundance__aux.txt

This file contains further information about the dataset such as the years when sites were first included in the study design.

Example of the first rows of auxiliary-files:

	sn_region	sn_locality	sn_section	sn_group_of_sites_spatial			
1	svalbard	adventdalen	endalen		1		
2	svalbard	adventdalen	endalen		1		
3	svalbard	adventdalen	endalen		1		
	sc_type_of_sites_ecological		sn_site	year_first	year_last	v_comment	
1	disturbed_moss_tundra	adv_end_1_dis_1		2017	NA	NA	
2		dryas_heath	adv_end_1_dry_1	2017	NA	NA	
3		moss_tundra	adv_end_1_mos_1	2017	NA	NA	