

Project	Physical and geochemical properties of Scottish saltmarsh soils.
Funding	USA/015/20
Staff Responsible	William Austin
Research Team	<ol style="list-style-type: none"> 1. Lucy C. Miller (<i>University of St Andrews</i>) 2. Craig Smeaton (<i>University of St Andrews</i>) 3. William E.N. Austin (<i>University of St Andrews/Scottish Association of Marine Science</i>)

Metadata Type	Details
Data Resource ID	Soil profiles for 141 cores collected from across seven Scottish saltmarshes.
Description of dataset	The dataset details 141 soil profiles collected from across seven Scottish saltmarshes. Include in the dataset is the length of core collected, the dominant substrate in the region (sand vs mud) and a description and thickness of each soil unit.
Locations of the observations	<p>Scotland</p> <p>Geographic Extent: 54.251069, -6.262840 54.564402, 0.464285 58.742170, -0.204728 58.994955, -7.092833</p> <p>Site locations presented as decimal longitude and latitude (WGS84), and as X easting and Y northing in the data resource.</p>
Location Descriptions	All sites are located in similar environmental regions of Scotland to allow for comparable data. Furthermore, the sites were chosen from around Scotland's coastline to provide an accurate representation of saltmarshes, sediment types, and organic carbon content within Scotland.
Names of the variables or parameters observed or simulated	Latitude (decimal degrees) Longitude (decimal degrees) Easting Northing Elevation Above Ordnance Datum (m) Length of core (cm) Dominant substrate (sand vs mud)

	Thickness of fibrous peat soil unit (cm) Thickness of humified peat soil unit (cm) Thickness of transitional soil unit (cm) Thickness of reed detritus soil unit (cm) Thickness of basal soil unit (cm)
All procedures used to make observations or simulations (field/lab where applicable)	Sampling: 141 narrow sediment cores were collected from seven Scottish saltmarshes. Samples were collected using a 30 mm gouge corer. Core descriptions were taken during sample collection following the Troels-Smith classification scheme (Troels-Smith, 1955).
Calibration procedures, where applicable	NA
Statistical treatment of the observations or simulations	NA
Data checking procedures (quality control)	NA
File formats used	.csv
Other information	NA indicates no data in cells.
References	Troels-Smith, J., 1955. Characterization of unconsolidated sediments. Reitzels Forlag.

Data resource description for Saltmarshs_soil_profile_descriptions.csv		
Header	Description	Cell Format
Core_ID	Sample identification	Text
Marsh_ID	Saltmarsh name	Text
Sampling_year	Year of sample collection	Number
Local_authority	Local authority responsible for the saltmarsh	Text
Marsh_type	Back-barrier	Text
	Fringing	
	Estuarine	
	Embayment	
Marsh_zone	Low-Mid	Text
	High	
Lat_dec_deg	Latitude reported in decimal degrees using the WGS84 projection	Number
Long_dec_deg	Longitude reported in decimal degrees using the WGS84 projection	Number
X_easting	Location reported as X (Easting)	Number
Y_northing	Location reported as Y (Northing)	Number
Elevation_AOD_m	Elevation Above Ordnance Datum (m)	Number
Core_length_cm	Length of core retrieved (cm)	Number
Basal_substrate	Sand	Text
	Mud	
Fibrous_peat_thickness_cm	Thickness of fibrous peat soil unit (cm)	Number
Humified_peat_thickness_cm	Thickness of humified peat soil unit (cm)	Number
Transitional_thickness_cm	Thickness of transitional soil unit (cm)	Number
Reed_detritus_thickness_cm	Thickness of reed detritus soil unit (cm)	Number
Basal_thickness_cm	Thickness of basal soil unit (cm)	Number