

Metadata for SAR calculations from the *New Atlas of the British & Irish Flora* (Preston, C.D. et al. 2002, Oxford Univ. Press).

Columns A-R: defining coarse scale grids

Columns A&B: Eastings and Northings (UK Ordnance Survey grid) of each 10 x 10 km cell

Column C: Assignment of the cell to “region” for regional analyses.

Column D: Cell label following Ordnance Survey naming conventions.

Columns E-R: Cell membership in coarser scale grid cells, identified by length of grid side, so e.g. “ID20” represents 20 x 20 km grids (each with up to 4 member 10 km cells), “ID50” represents 50 x 50 km grids (each with up to 25 member 10 km cells). The area of each grid cell (in km<sup>2</sup>) is given in row 1.

Columns T-V: Species richness for focal cells of different areas.

Column T: Cell label (as assigned in Columns A-R)

Column U: Species richness in the cell as derived from the Atlas dataset

Column V: Area of the cell (in km<sup>2</sup>)

Columns X-Y: Mean species richness as a function of cell area.

Columns AA-AD: Species richness for focal cells of different areas in each region.

Column AA: Cell label (as assigned in Columns A-R)

Column AB: Species richness in the cell as derived from the Atlas dataset

Column AC: Region

Columns AD: Area of the cell (in km<sup>2</sup>)

Columns AF-AK: Mean species richness in each region as a function of cell area.

Specific column metadata:

EAST            Ordnance Survey Easting

NORTH         Ordnance Survey Northing

REGION        Which of our 5 British regions the cell belongs to

OS\_SQUARE     Ordnance Survey cell identifier

ID20           Which 20 x 20 = 400 km<sup>2</sup> grid cell the cell is in

ID30           Which 30 x 30 = 900 km<sup>2</sup> grid cell the cell is in

ID40           Which 40 x 40 = 1600 km<sup>2</sup> grid cell the cell is in

ID50           Which 50 x 50 = 2500 km<sup>2</sup> grid cell the cell is in

ID60           Which 60 x 60 = 3600 km<sup>2</sup> grid cell the cell is in

ID70           Which 70 x 70 = 4900 km<sup>2</sup> grid cell the cell is in

ID80 Which 80 x 80 = 6400 km<sup>2</sup> grid cell the cell is in

ID90 Which 90 x 90 = 8100 km<sup>2</sup> grid cell the cell is in

ID100 Which 100 x 100 = 10,000 km<sup>2</sup> grid cell the cell is in

ID120 Which 120 x 120 = 14,400 km<sup>2</sup> grid cell the cell is in

ID150 Which 150 x 150 = 22,500 km<sup>2</sup> grid cell the cell is in

ID200 Which 200 x 200 = 40,000 km<sup>2</sup> grid cell the cell is in

ID250 Which 250 x 250 = 62,500 km<sup>2</sup> grid cell the cell is in

ID270 Which 270 x 270 = 72,900 km<sup>2</sup> grid cell the cell is in

Cell\_ID Cell identifier = OS\_Square for 100 km<sup>2</sup> cells, or our ID values for coarser scales.

N\_Spp Species richness for the cell, from New Atlas of the British & Irish Flora (Preston, C.D. et al. 2002, Oxford Univ. Press)

Area\_km2 Cell area in km<sup>2</sup>

Cell\_Area\_km2 Cell area in km<sup>2</sup> for a size class of samples

Mean\_Spp Mean species richness found in all cells of this size in the database

Cell\_ID Cell identifier = OS\_Square for 100 km<sup>2</sup> cells, or our ID values for coarser scales.

N\_spp Species richness for the cell, from New Atlas of the British & Irish Flora (Preston, C.D. et al. 2002, Oxford Univ. Press)

Region Which of our 5 British regions the cell belongs to

Area\_km2 Cell area in km<sup>2</sup>

Cell\_Area\_km2 Cell area in km<sup>2</sup> for a size class of samples

1North Mean species richness for the cells of this size in our North region

2Center Mean species richness for the cells of this size in our Central region

3East Mean species richness for the cells of this size in our East region

4West Mean species richness for the cells of this size in our West region

5South Mean species richness for the cells of this size in our South region