

Creation of Layers of Distribution for MARXAN

TASK: Create layers of (potential) distribution of species and habitats with maximally two categories of distribution suitable for MARXAN analyses

Data sources and information available (web example):

1. Distribution in orographical units for 143 habitats, 201 plants and 182 animals
2. Information on affinity to land cover units (three categories: low, medium and high)
3. Information on affinity to range of altitude
4. Polygon layers of precise localities for 43 habitats, 7 plants and 13 animals

THREE STEPS (Osmederma eremita example) :

1. **Mixing all those data sources together – general distribution layers for 526 features were created**
2. **Reclassification into two categories – all layers from step 1 were reclassified – this way new layers of 526 features were created**
3. **Creation of table of distribution data per planning units for MARXAN input – table with 1051 columns and 14650 records was created**

STEP 2

Rules for reclassification into two categories:

I. high probability

type 1xx0

- all codes 11{2 or 3}0

type 1xx1

subtype of large polygons of precise localities (bigger than 25000 ha)

- all codes 1xy1 where x must be 1 AND y must be 1 or 2 or 3

subtype of small polygons of precise localities (less than 25000 ha)

- all codes 1xx1

II. normal probability:

all the rest after "I. high probability" selection except 1000 code