

Ecosphere

Positive plant-plant interactions expand the upper distributional limits
of some vascular plant species

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Metadata S1

General file description:

The data files labelled “Fine-scale transect data” and “Broad-scale transect data” contain the data from the fine-scale (scoria cone) transects and the broad-scale (island-scale) transects, respectively, that were used to test if plant-plant interactions at fine scales have the potential to expand species’ upper distributional limits.

Dataset description:

1) “Broad-scale transects”

This is the data file for the island-scale transects. The upper altitudinal limits of all vascular plant species on vs. away from *Azorella selago* were recorded. We present the data for the five highest individuals of each species on both substrates, for all species where there were adequate data for analyses ($n > 5$ transects).

2) “Fine-scale transects”

This is the data file for the fine-scale (scoria cone) transects. The upper altitudinal limits of all vascular plant species on vs. away from *Azorella selago* were recorded. Again, we present the data for the five highest individuals of each species on both substrates, for all species where there were adequate data for analyses ($n > 5$ transects). Multiple transects were sampled on the same landforms.

Within-file description:

- **Transect number:** a unique number is provided for each transect. From the fine-scale dataset, where there were multiple transects per landform (or scoria cone), transects were indicated using numbers and letters (e.g. Transect 1A, Transect 1B, Transect 2 etc.).
- **Species:** the different species that were recorded along the transects.
- **Habitat:** whether an individual of a species was recorded on (i.e. cushion) or away (i.e. soil) from *Azorella selago*.

- Altitude: the altitude at which the individuals of the species were recorded on vs. away from *Azorella selago*.