– ODMAP Protocol –

2023-11-02

## Overview

#### Authorship

<Contact>

<Study link>

#### Model objective

Model objective:

<Target output>

#### Focal Taxon

<Focal Taxon>

#### Location

<Location>

#### Scale of Analysis

Spatial extent: (xmin, xmax, ymin, ymax)

<Temporal extent>

<Boundary>

#### Biodiversity data

<Observation type>

<Response data type>

#### Predictors

<Predictor types>

#### Hypotheses

<Hypotheses>

#### Assumptions

<Model assumptions>

#### Algorithms

<Modelling techniques>

<Model complexity>

<Model averaging>

#### Workflow

<Model workflow>

#### Software

<Software>

<Code availability>

<Data availability>

## Data

#### Biodiversity data

<Taxon names>

<Taxonomic reference system>

<Ecological level>

<Data sources>

<Sampling design>

<Sample size>

<Absence data>

<Background data>

#### Data partitioning

<Training data>

<Validation data>

#### Predictor variables

<Predictor variables>

<Data sources>

Spatial extent: (xmin, xmax, ymin, ymax)

<Spatial resolution>

<Coordinate reference system>

<Temporal extent>

#### Transfer data

<Data sources>

Spatial extent: (xmin, xmax, ymin, ymax)

<Spatial resolution>

<Temporal extent>

<Models and scenarios>

<Quantification of Novelty>

## Model

#### Multicollinearity

<Multicollinearity>

#### Model settings

<Model settings (fitting)>

<Model settings (extrapolation)>

#### Model estimates

<Coefficients>

#### Analysis and Correction of non-independence

<Spatial autocorrelation>

#### Threshold selection

<Threshold selection>

## Assessment

#### Performance statistics

<Performance on training data>

<Performance on validation data>

<Performance on test data>

#### Plausibility check

<Response shapes>

<Expert judgement>

## Prediction

#### Prediction output

<Prediction unit>

#### Uncertainty quantification

<Scenario uncertainty>

<Novel environments>