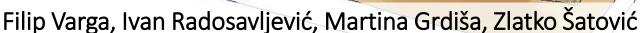


PREDICTING SUITABLE HABITAT FOR DALMATIAN
PYRETHRUM (TANACETUM CINERARIIFOLIUM / Trevir. / Sch.
Bip.) IN CROATIA

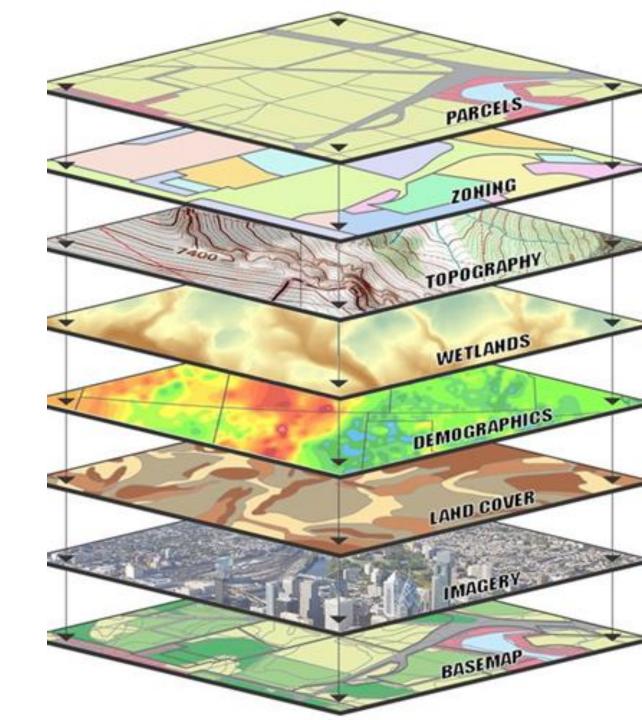






Suitable Habitat Modelling

- Predict the potential distribution of a species based on finding suitable habitat
- Different for each species based on habitat requirements



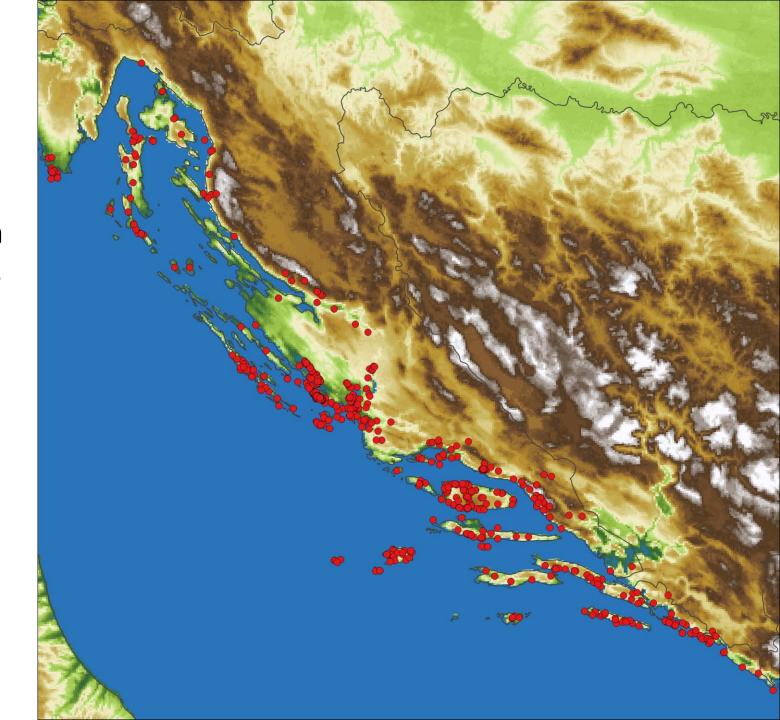
Dalmatian pyrethrum



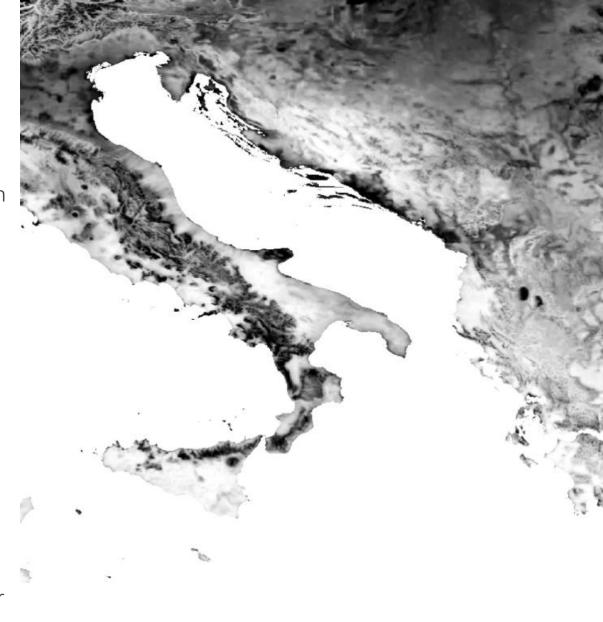


Data

- Herbarium collections
- Literature
- Field studies
- 871 recorded locations
- Sample size: **224**



- Annual Mean Temperature
- Mean Diurnal
- Isothermality
- Temperature Seasonality Max
- Temperature of Warmest Month
- Temperature Annual Range Mean
- Temperature of Wettest Quarter
- Mean Temperature of Driest Quarter
- Mean Temperature of Warmest Quarter
- Mean Temperature of Coldest Quarter
- Annual Precipitation
- Precipitation of Wettest Month
- Precipitation of Driest Month
- Precipitation Seasonality
- Precipitation of Wettest Quarter
- Precipitation of Driest Quarter
- Precipitation of Warmest Quarter
- Precipitation of Coldest Quarter



Bioclimate Variables

Variable selection

01

CORRELATION BETWEEN VARIABLES 02

BUILDING CANDIDATE SETS OF VARIABLES (90) 03

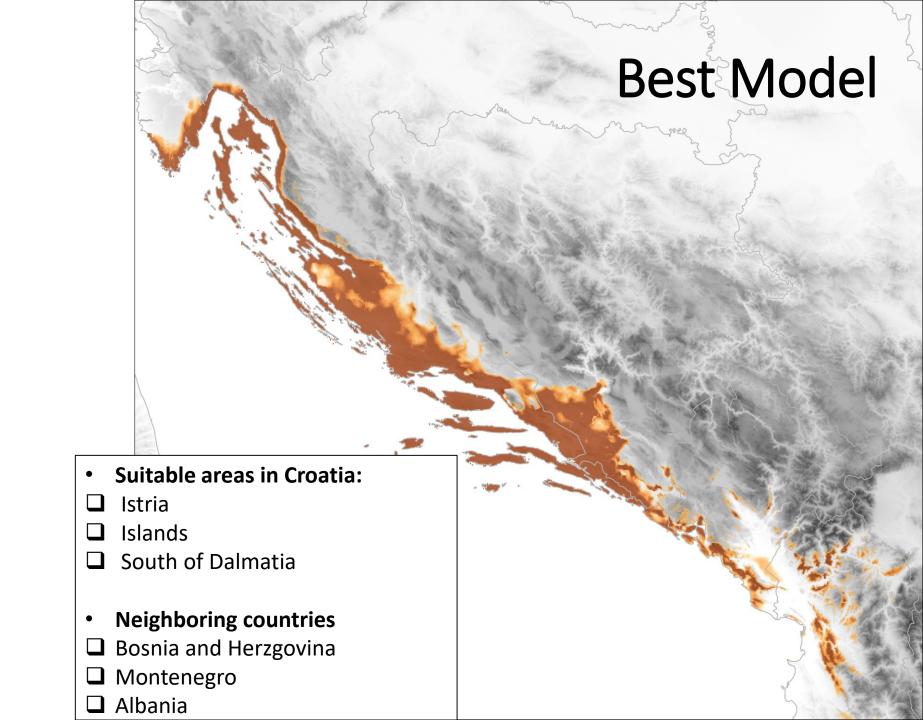
GENERATING AND COMPARING MODEL PERFORMANCE (MAXENT)

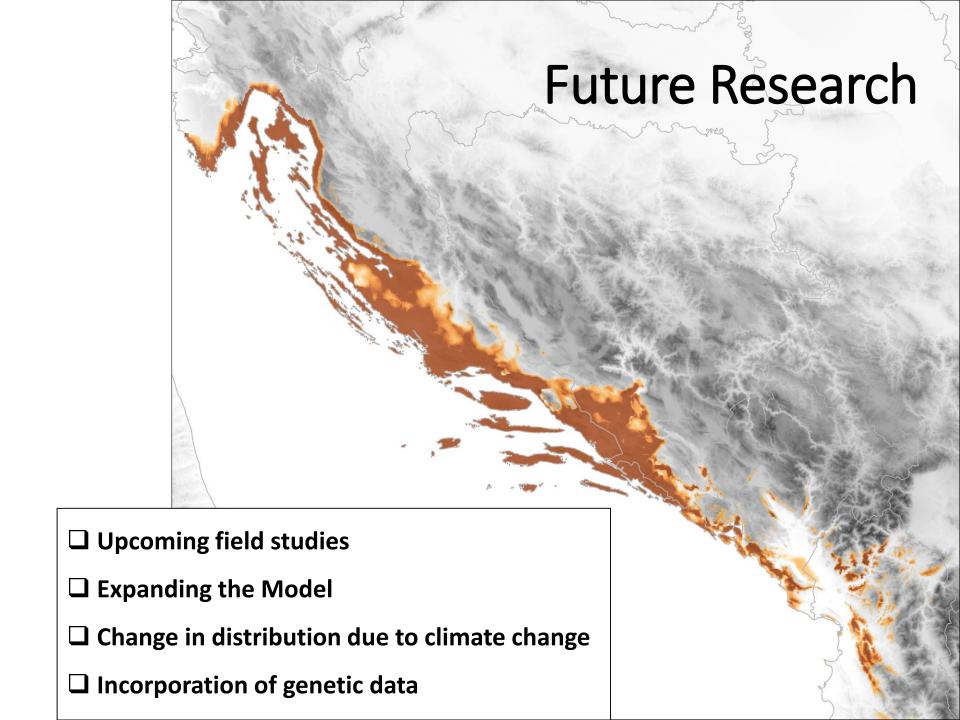
04

SELECTING THE BEST MODEL BASED ON AIC_C (ENMTOOLS)

Best Model

VARIABLE	% CONTRIBUTION	PERMUTATION IMPORTANCE
Isothermality	39.5	11.5
Mean Temperature of Driest Month	37.7	54.2
Precipitation Seasonality	11	18.2
Temperature Seasonality	5.9	12.8
Precipitation of Wettest Month	3.8	3
Mean Temperature of Wettest Month	2.1	0.3





This work has been fully supported by the Croatian Science Foundation

Genetic background of Dalmatian pyrethrum (*Tanacetum cinerariifolium* /Trevir./ Sch. Bip.) insecticidal potential (PyrDiv) (IP-06-2016-9034)











