

BayCEER Kolloquium

Lectures in Ecology and
Environmental Research

Summer 2017



UNIVERSITÄT
BAYREUTH

Thursday

27.07.2017

12:00 in H6, GEO

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Long term and large scale studies on plant biotas of the Tuscan Archipelago

Biogeographical patterns of archipelagic plant communities are still poorly understood because of the uneven amount of information at different geographical scales (i.e. within islands vs. between islands) and along time scale. However, the recent availability of large floristic and vegetation databases offers the opportunity for testing explicit hypotheses based on theoretical biogeographical and ecological assumptions. The Tuscan Archipelago in Italy represents a very fortunate case, with modern floristic exploration started in 1930 and continued virtually constantly and with collection of phytosociological data spanning more than 40 years. In the present research, we investigate the long term changes of island floras and archipelagic patterns of community composition. We test if the long term floristic changes agreed to the prediction by the Equilibrium Theory of Island Biogeography, as well as the role of different habitat types versus the island identity in shaping the species composition of plant communities.