

ReSurveyEurope

Project Metadata Form

When contributing data to ReSurveyEurope, please fill in this form for each resurvey project and send it to Ilona Knollová (ikuzel@sci.muni.cz) together with the database. A resurvey project is understood as repeated sampling of a certain type of vegetation in a certain study area using specific methods.

- PROJECT NAME (identical with the Resurvey Project name given in the database):

Třeboň fens between 1960th to 2004

- FULL PROJECT NAME (use if the full project name is longer than used in the database):

Resurvey of Třeboň fens between 1960th to 2004

- REFERENCE (publication or URL or DOI of the dataset if published online):

Navrátilová, J., Hájek, M., Navrátil, J., Hájková, P., Frazier, R.J. (2017).
Convergence and impoverishment of fen communities in a eutrophicated agricultural landscape of the Czech Republic. *Applied Vegetation Science*, 20 (2), pp. 225-235.

- DATA OWNER: person(s), institution(s):

Hadač, E. , Rybníček, K. Navrátilová J; Institute of Botany of the CAS, Třeboň

- CONTACT E-MAIL:

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- METHODS (description of sampling design and methods):

During the summer of 2001 to 2004 we were able to identify and resurvey 36 relevés of historical vegetation that were recorded by Hadač in Březina et al. (1963) and Rybníček (1970). Individual records were also available in the Czech National Phytosociological Database (Chytrý & Rafajová 2003). During the summers of 2001–2004 we revisited plots that had historical data. All fen vegetation types were recorded. The cover of both vascular plants and bryophytes was estimated on plots using the phytosociological nine-grade scale (van der Maarel 1979). Both PERMANOVA and PERMDISP (Anderson et al. 2008) were used to test the statistical significance of the differences in total species composition and β -diversity between the historical and the present-day records of the paired data set. A Bray-Curtis distance matrix, calculated from the square-root transformed cover data, was used to perform tests. Then we were able to assign the most similar new relevé to the old one in each locality = 36 pairs of relevés.

- ENVIRONMENTAL DATA (list of environmental data measured):

The environmental data are not included into the database, but they are available upon request. In the resurvey, environmental data as water pH and conductivity were collected.

- MANIPULATED PLOTS (description of the treatment if the plots were manipulated, e.g. mowing twice a year, fertilizing by NPK once a year, post-fire succession)

No experimental manipulations were applied. In some sites, management had ceased.

Třeboň, 26.1.2021

Jana Navrátilová