

### 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](mailto: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):

Jura Silver fir forests

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

Jura Silver fir forests

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

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1654-1103.2010.01201.x>

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

Jonathan Lenoir (2007 resurvey) & Didier Bert (1989 survey)

- CONTACT E-MAIL:

[jonathan.lenoir@u-picardie.fr](mailto:jonathan.lenoir@u-picardie.fr)

- METHODS (description of sampling design and methods):

Plots were selected to get a representative sample of Silver fir (*Abies alba*) forests in the Jura Mountains, covering both France and Switzerland. The initial sampling was conducted by Bert (1992) from May to October 1989 and was aimed at assessing the impact of ecological factors, climatic stresses and pollution on the growth and health of *A. alba* in the Jura Mountains. The sampling effort was, on average, one sample per 800 ha of *A. alba* forest. Only *A. alba* stands (>50% *A. alba*) were included in the survey. Plots were resurveyed from May to October 2007. The relocation of each plot in 2007 was done using a handheld Global Positioning System (GPS) based on geographic coordinates obtained from precise maps from 1989. Paint marks and label numbers placed on six *A. alba* trees per plot in 1989 were still recognisable on trees still alived in 2007, thereby enabling highly precise re-location of each plot. Complete vascular plant species lists were recorded on each site as well as mosses, during both the historical survey and the resurvey. Two observers in 2007 spent the first inventory week with two of the 1989 observers so as to calibrate themselves to the 1989 sampling methodology. Each plot is 250 m<sup>2</sup> in surface area and the location provided (latitude and longitude) is referring to the centre of the plot.

- ENVIRONMENTAL DATA (list of environmental data measured):

ELEVATION (m a.s.l.)

STAND\_AGE (mean year of dominant trees in 1989 only)

DOMINANT\_HEIGHT (highest tree in 1989 only)

SOIL\_PH\_H2O (soil pH method H2O in 2007 only)  
SOIL\_PH\_KCL (soil pH method KCL in 2007 only)  
C\_N\_RATIO (C/N ratio in 2007 only)  
N\_TOT (Total soil Nitrogen in 2007 only)  
PHOS\_P2O5 (Soil Phosphorous in 2007 only)  
BASAL\_AREA (Tree basal area in 2007 only)

- 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)

Two type of forest management practices were used: even-aged stands vs. uneven-aged stands

**23<sup>rd</sup> January 2021**

**Jonathan Lenoir**