

MONITORING AND ASSESSMENT OF RIPARIAN VEGETATION IN EUROPEAN COUNTRIES

WG 1 Workshop, Madrid (Spain), 10-11 July, 2018

Minutes

LIST OF THE PRESENTATIONS

1. Introduction to the workshop (S. Dufour and P.M. Rodríguez-González)
2. Riparian zones-Riparian vegetation: Concepts and definitions (S. Dufour and P.M. Rodríguez-González)
3. Riparian vegetation: Knowledge conversion for understanding river functioning and status (Francisca Aguiar)
4. Phytosociological characterization of European Riparian vegetation (Dejan Mandzukovski)
5. Functional characterization of Spanish Riparian vegetation (Diego García de Jalón)
6. Riparian vegetation assessment in Denmark (Tenna Riis)
7. Riparian vegetation assessment in UK: Scotland (Roberto Martínez)
8. Riparian vegetation assessment in Spain (Vanessa Martínez-Fernández)
9. Riparian vegetation assessment in Portugal (Patricia Rodríguez)
10. Riparian vegetation assessment in France (Simon Dufour)
11. Riparian vegetation in Hungary (T. Kiss)
12. Riparian vegetation in Italy (N. LaPorta)
13. A hierarchical hydromorphological framework for developing multi-scale riparian vegetation characterization and assessment (Marta González del Tánago)

SYNTHESIS OF THE DISCUSSIONS AND NEXT STEPS

The presentations and the associated discussions concerned mainly 5 topics detailed below :

1. PHYTOSOCIOLOGICAL APPROACH
2. DEFINITION/DELINEATION ISSUES
3. EUROPEAN RIPARIAN VEGETATION STATUS ASSESSMENT
4. RELATIONSHIPS BETWEEN PRESSURES AND STATUS
5. ECOSYSTEM SERVICES REVIEW

PHYTOSOCIOLOGICAL APPROACH

3 mains axes of work have been identified.

1. Producing a synthetic presentation of the riparian vegetation classification. It could be, for example, a table presenting for each order/alliance/association
 - Name - vernacular
 - Name - Order/alliance/Association

- Biogeographic region it belongs (EEA : <https://www.eea.europa.eu/data-and-maps/data/biogeographical-regions-europe-3>)
 - Typical environmental conditions : highlighting relationship with fluvial system
 - Dominant species
 - Dominant traits
 - Conservation issues (current vs potential distribution, etc.)
 - Etc.
2. Report of potential gaps
- Number of relevés which have XY coordinates & are assigned to river
 - Number of relevés / country
 - Number of relevés / biogeographical regions (EEA)
 - Number of relevés / river size (using European catchments and Rivers network system - Ecrins) (<https://www.eea.europa.eu/data-and-maps/data/european-catchments-and-rivers-network>)
 - Number of relevés / soft-hardwood
 - Temporal distribution of existing relevés (for example by some defined Sampling period)
3. Which gaps to fill and how ?
- See minutes of Krakow meeting
 - First gap to fill : Formalized classification of riparian forests in southeastern Europe

Outputs :

- **point 1 and 2 => 1 report and 1 paper**

- **point 3 => 1 paper**

Lead : Dejan

Schedule :

- **point 1 (synthetic presentation of the riparian vegetation classification)**

1) *winter 2018/2019*

- *identification of contributors and first discussion*

2) *spring 2019*

- *presentation of a draft during the MC meeting*

3) *autumn 2019*

- *Redaction of the outputs*

- **point 2 (report about gaps)**

1) *winter 2018/2019*

- *identification of contributors and first discussion*

2) *spring 2019*

- *presentation of a draft during the MC meeting*

3) *autumn 2019*

- *Redaction of the outputs*

- **point 3 (i.e. Formalized classification of riparian forests in southeastern Europe)**

1) *summer 2018*

- *to select the samples from EVDFF (Douda et al. 2016) from SE Europe*

- *delimitation of study area*

- *to prepare the list of potential contributors and send them individual request for the data*

2) *autumn 2018:*

- *communication with data contributors*

3) *winter 2018/2019:*

- *preparation of dataset (nomenclature unification, coordinates, Turoboveg/Juice = dataset merging)*

4) *spring/autumn 2019:*

- *analyses (classification scheme)*

- *presentation on workshop and big symposium or conference*

5) *submitting of article 2020*

DEFINITION/DELINEATION ISSUES

1. Some legal approach with given width (depending of channel width)
 - Based on literature => minimum requirement
 - But did not catch all the functions
 - Political compromise
2. Promote a definition/delineation that integrate /maximize all the functions
3. Example: JRC approach at EU scale
 - DEM + flood elevation (50years flood) Or
 - DEM (shape index with visual validation) And
 - 40 m (scientific literature)
4. Show how some recent development can help for small streams
5. Non alluvial reach ?
6. Low-gradient stream with no valley ?

Outputs : 1 report (including list of definition) and 1 paper

Lead : Simon and Patricia

Schedule : draft of the report and paper submitted in September 2018

EUROPEAN RIPARIAN VEGETATION STATUS ASSESSMENT

1. Review of national protocol/methods (questionnaire + note to fill it ; for an example see “River Hydromorphological Assessment and Monitoring Methodologies – FINAL REPORT”)
 - Is there (a) national survey(s) ? WFD but also forest inventories
 - Sampling strategy ?
 - Variables ?
2. Analyzing the status
 - Collecting data
 - Find common metrics
3. Potential improvement in future
 - Recommendations for a more relevant and comparable protocol (ex. Non native/invasive)
 - Examples (basin scale, regional monitoring, etc.)

Outputs : Questionnaire and note + 1 report + 1 paper + policy brief

Lead : Marta

Schedule : March, 2019

RELATIONSHIPS BETWEEN PRESSURES AND STATUS

1. List of pressures
2. Review of pressure / state relations
3. with a special focus on studied contexts
 - Climate / biogeographical region
 - Morphological settings, size
 - land uses
 - ...

Outputs : series of figures

Lead : Marta

Schedule : April, 2019

ECOSYSTEM SERVICES REVIEW

1. List of services (EU projects)
2. Review services by services with a special focus on studied contexts
 - Climate / biogeographical region
 - Morphological settings, size
 - land uses
 - ...

Outputs : Review paper

Lead : Tenna, Mary and Francisca

Schedule : draft of the review in February 2019