

#### COST Action CA16208 KNOWLEDGE CONVERSION FOR ENHANCING MANAGEMENT OF EUROPE AN RIPARIAN ECOSYSTEMS AND SERVICES (CONVERGES)

## PHYTOSOCIOLOGICAL GROUP ACTIVITIES

Dejan Mandžukovski and members of phytosociological group

• Annual meeting and 4th Management Committee Meeting Thessaloniki. Greece

12/13 February 2020

• in the previous meetings, we decided to produce 4 outputs :

1. Producing a synthetic presentation of the riparian vegetation classification

2. Report of potential gaps

3. Fill the gap ("Formalized classification of riparian forests in southeastern Europe")

4. Guidebook (species, habitats) for alliances of riparian forest

## Current achivements

 some topics are not completely covered in the expected schedule,

• some topics were not initially identified but emerged and

• some topics will be covered but with different deliverables.

# 1. "Formalized classification of riparian forests in southeastern Europe"

periods for finishing of our topics:

- this autumn main data was processed
- during the Training school in Sofia we discussed about possible final results
- and nowdays we organize paper writing (draft version)
- optimistically, Manuscript will be finished in first half of 2020 (april-june),
- we want to submit this article in some journal with high IF
- Probably we will need some financial support from Cost Action for its submission to some IF journal (e.g. Forest, Preslia).
- possible some money to be paid for publishing in journal from our COST Action?
- otherwise, we should submit it in some journal with low IF or just SCOPUS indexed;

## 2. "Guidebook (species, habitats) for alliances of riparian forest"

- We will actively start working on it preparation in the first half of 2020 and will finalize it to the end of the year.
- After finishing of *"Formalized classification of riparian forests in southeastern Europe"* we will suggest to one or two day workshop for potential co-authors members of our subgroup to work on preparation of **Guidebook** during beginning of autumn 2020.
- Propose location for this venue for the workshop is Antalia in Turkey, where Ali Kavgaci, one of our active participant in the subgroup offer to organize it. That will be for next budget period. This is will be our final workshop.

# 3. "Synthetic presentation of the European riparian vegetation classification"

- . <u>Expected time</u>:
- after finishing of ,,Formalized classification of riparian forests in southeastern Europe''

First half of 2020

4. "Report about potential gaps phytosociological knowledge"

• Finish 2019

# Links with WG1 and the whole network

• Some gaps related to riparian forest ecosystems, which need to be completed by the end of this project with several activities as a pillars within Working group 1 will be done, but also in connection with continuing Working group 2 and later to disseminate our result with WG4 with organizing of final conference in 2021 Training School on Diversity and development of phytocoenological databases and using of different numerical methods for analysis of vegetation data, 21-26 October, 2019, Sofia, Bulgaria

- 28 participants (24 trainees + 5 trainers) from 10 countries
- Provided an essential information about main steps how to develop and manage a new or existing phytocoenological database using TURBOVEG software
- Data preparation for broad-scale analysis and tested variety of numerical methods for analysis of vegetation data were presented
- Were presented and tested different numerical methods for analysis of vegetation data (PC-ORD, Modified TWINSPAN, EuroVegChecklist Expert System)









VEGETATION DIVERSITY AND GLOBAL CHANGE

European Vegetation Survey Working Group of the International Association for Vegetation Science 28th EVS Meeting 2-6 September 2019 Madrid, Spain

# • Reinforce of the network of riparian vegetation group and disseminate the current results done under COST CONVERGES

 <u>Mandžukovski D,</u> Dufour, S, González del Tanago M, Čarni A, Douda J, Vassilev K, Šibikova M, Stupar V, Ćušterevska R, Slezák M, Stešević D, Škvorc Ž, Kavgaci A, Šibik J, Rodríguez González, P.

## Syntaxonomical diversity of riparian forest vegetation in Bulgaria – existing knowledge and future perspectives

(Kiril Vassilev, Stoyan Georgiev, Momchil Nazarov, Beloslava Genova, Nikolay Velev)

- were gathered all the available reléves published in literature and collected during 2017-2018 (374 reléves) presenting riparian forest vegetation
- vegetation classes were determined by EuroVegChecklist Expert System and PC-ORD hierarchical clustering was used for classification below class level
- riparian forest data was classified into 2 classes, 3 orders, 4 alliances, 6 associations and 1 community



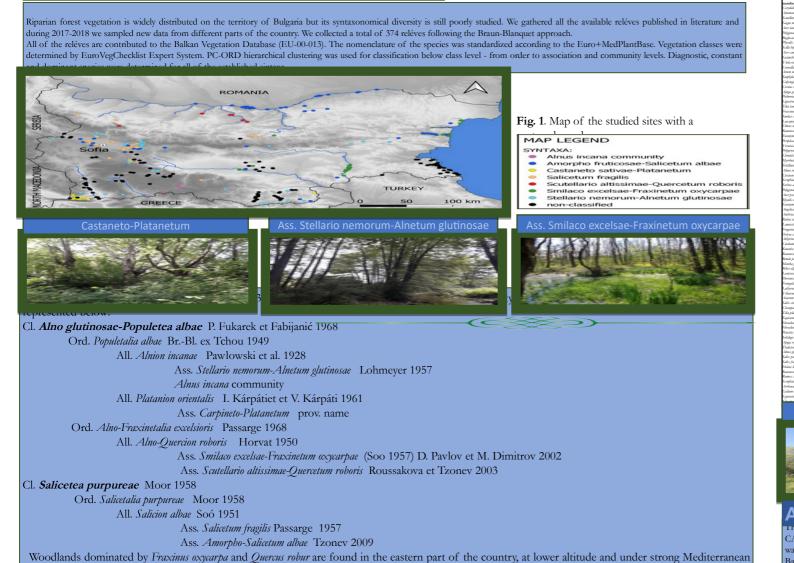
#### Syntaxonomical diversity of riparian forest vegetation in Bulgaria – existing knowledge and future perspectives



Kiril Vassilev<sup>1</sup>, Stoyan Georgiev<sup>2</sup>, Momchil Nazarov<sup>1</sup>, Beloslava Genova<sup>3</sup> & Nikolay Velev<sup>1</sup>

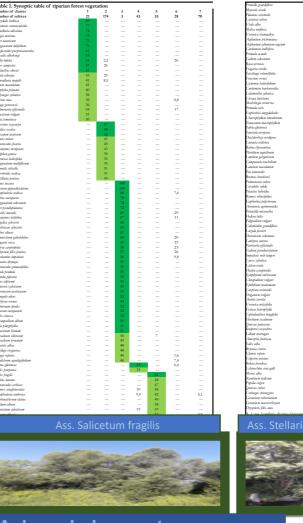
Department of Plant and Fungal Diversity and Resources. Institute of Biodiversity and Ecosystem Research. Bulgaria, Academy of Sciences. 1113Sofia, Bulgaria; Field Crops Institute - Chirpan, Agricultural Academy, 6200 Chirpan, Bulgaria, <sup>3</sup>University of Plovdiv "Paisii Hilendarski", Faculty of Biology, 4000 Plovdiv, Bulgaria. Presenting author: kiri5914@abxbg

#### Data structure, materials & methods



Woodlands dominated by *Fraxinus oxycarpa* and *Quercus robur* are found in the eastern part of the country, at lower altitude and under strong Mediterranean influence. *Platanus orientalis* woodlands are distributed in south Bulgaria andtheir syntaxonomical diversity is still poorly studied. *Stellario nemorum-Alnetum* 

distributed in mountainous regions in the beech conjerous with (introno between and





#### Acknowledgements

This study was supported by the National Science Fund (Contract ANOCT 01/7/19.10.2018) as a part of "COST Action CA16208 Knowledge conversion for enhancing management of European riparian ecosystems and services". Some of the data was collected as a part of the project "Study of the syntaxonomical diversity of the municipalities of Ihtiman, Kostenets, Dolna Banya and Samokov, Sofia region" of "National Program for Young Scientists and Postdoctoral Students" by module "Young Scientist".

### "Guidebook (species, habitats) for alliances of riparian forest"

we expect to be finish in *second half of the 2020 or beginning of 2021* 

After finishing of "Formalized classification of riparian forests in southeastern Europe" we will suggest to one or two day workshop for potential co-authors members of our subgroup to work on preparation of Guidebook during beginning of autumn 2020.

Propose location for this venue for the workshop is Antalia in Turkey, where Ali Kavgaci, one of our active participant in the subgroup offer to organize it. That will be for next budget period. This is will be our final workshop.

- Venue: hotel in Antalya city center or surrounding town very close to city center
- Host institution: *Karabuk University, Forestry Faculty*
- Connections: In september, there are direct flights from many European countries, or there are many flights during the day from İstanbul which has often connections with European countries during the day

### Antalya is a city located at the Southern Anatolia-Turkey



#### Climate: Mediterranean climate

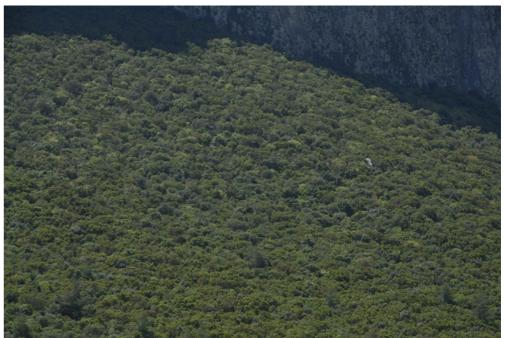
Vegetation: Screphyllous machia and forest, *Pinus brutia* forest, *Cedrus libani* forests, *Abies cilicica* forest, *Pinus nigra* forests.

Riparian forests are dominated by *Platanus orientalis*, *Alnus orientalis* and *Liquidambar orientalis* as well.

The mountains reaches up more than 3000 meters.







Antalya is the capital of tourism in Turkey

More than 14 million tourist were hosted in 2019.

The city also organizing many international meeting. The hotels are well organized for meeting.

















# September is the one of the best period in Antalya to organize a meeting with less warm air and humidity <sup>(C)</sup>















