

28th Meeting of the European Vegetation Survey

Vegetation Diversity and Global Change

2-6 September 2019

Madrid, Spain

ABSTRACTS & PROGRAMME

Pharmacology, Pharmacognosy and Botany Department
Pharmacy. Complutense University

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First overview on the 4th Annex I Habitats Report in Italy: methods, criticality, results and future prospects

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¹*Department of Agricultural, Food and Environmental Sciences. University of Perugia. I-06121 Perugia, Italy;* ²*Working Group of the Italian Botanical Society for the 4th Report ex-Art. 17 of the 92/43/EEC Directive's Annex I Habitats in Italy:* Selvaggi A, Acosta ATR, Adorni M, Allegrezza M, Angiolini C, Armiraglio S, Assini S, Attorre F, Bagella S, Barcella M, Bazan G, Bertacchi A, Bolpagni R, Bonari G, Buffa G, Caccianiga M, Cacciatori C, Caria MC, Casavecchia S, Casella L, Cerabolini BEL, Ciaschetti G, Ciccarelli D, Cogoni A, Cutini M, De Sanctis M, De Simone W, Del Vecchio S, Di Cecco V, Di Martino L., Di Musciano M, Fantinato E, Filesi L, Foggi B, Forte L, Frattaroli A.R., Galdenzi D, Gangale C, Gianguzzi L, Giusso Del Galdo G, Grignetti A, Guarino R, Lasen C, Maneli F, Marcenò C, Mariotti M.G., Oriolo G, Paura B, Perrino E, Pesaresi S, Pezzi G, Pisanu S, Poponessi S, Prisco I, Puglisi M, Rievieccio G, Sciandrello S, Spampinato G, Stinca A, Strumia S, Taffetani F, Tesei G, Tomaselli V, Venanzoni R, Viciani D., Villani M., Wagensommer R, Zanatta K; ³*ISPRA. Italian Institute for Environmental Protection and Research. I - 00144 Roma, Italy. Presenting author: daniela.gigante@unipg.it*

Like all the other EU/28 countries, in 2019 Italy developed the 4th Italian Report ex-Art. 17 on the conservation status of the Habitats of Annex I to the 92/43/EEC Directive. Institutional referent of the process, on behalf of the Ministry for Environment, Land and Sea Protection (MATTM), was the Italian Institute for Environmental Protection and Research (ISPRA) with the scientific support of the Italian Botanical Society (SBI). A huge working group composed of thematic and territorial experts was formed with the task to collect, analyse, validate the data resulting from Annex I Habitat monitoring in Italy for the period 2013-2018, whose collection is in charge to the regional administrations. Data on 124 types of terrestrial and inland water Habitats present in Italy have been processed in order to assess their overall conservation status in the Biogeographic Regions of occurrence. The carried out activity led to the compilation of 278 assessment sheets. The work included a critical analysis of the data and a broad scientific confrontation aimed at finding methodologically robust solutions to fill the gaps. The work was structured so as to guarantee the traceability of the information and to allow the collection of "gray" literature and scientific articles, phytosociological surveys and unpublished material of the specialists, composing a substantial pool of data useful for starting a long-term process to support the next reporting cycles. Cartographic outcomes, associated databases and additional data used for the assessments will be available online on the ISPRA Portal as soon as the validation process by the European Commission will be completed. A freely accessible online archive of phytosociological surveys representative of the various Annex I Habitats in Italy is being set up within the national "VegItaly" database, managed by the Italian Society of Vegetation Science, by way of a dedicated archive named "HAB_IT". Such a long-term vision, oriented to the storage and enhancement of knowledge, represents an important innovative aspect and a significant progress towards the construction of an effective monitoring system for the conservation of Annex I Habitats in Italy.

Programme

Monday, 2 September 2019

18:00-20:00 Registration and Welcome drink

Facultad de Farmacia (New Pharmacy Building)

Tuesday, 3 September 2019

8:00-9:00 Registration

9:00-9:15 Opening Ceremony

9:15-10:00 Keynote Lecture: *Adrián Escudero* (Rey Juan Carlos University, Móstoles).

Linking above and below ground plant community responses: a melting pot of interactions and soil heterogeneity

Session 1. Sand-Dune and Halophilous Vegetation

Chair: *Iva Apostolova*

10:00-10:15 Through the lens of time: experiences from a resurveying study of coastal dune ecosystems in Central Italy

Sperandii MG, Barták V & Acosta ATR

10:15-10:30 Conservation status assessment of dune habitats in two contrasting Natura 2000 sites

Argagnon O, Sirvent L & Treil V

10:30-10:45 Synthetic overview of sandy vegetation of the Pannonian and western Pontic region

Ćuk M, Botta-Dukát Z, Csecserits A, Chytrý M, Franjić J, Igić R, Ilić M, Janišová M, Kuzemko A, Rédei T, Škvorec Ž, Tzonev R, Vukov D, Willner W, Čarni A

10:45-11:00 Syntaxonomical approach on the fruticose halophytic vegetation of Western European territories

Sánchez-Mata D, Ramírez E, Rufo L, Sánchez-Gavilán I & de la Fuente V

11:00-11:30 Coffee/Tea break

Session 2. High-Mountain Vegetation

Chair: *Milan Chytrý*

11:30-11:45 Disentangling observer error and climate change effects in long-term monitoring of alpine plant species composition and abundance

Winkler M, Futschik A, Steinbauer K, Lamprecht A, Rumpf S, Barančok P, Palaj A, Gottfried M & Pauli H

11:45-12:00 Biogeography of alpine plant communities in southern Europe

Jiménez-Alfaro B, Abdulhak S, Bergamini A, Carranza ML, Čušterevska R, Font X, Giusso del Galdo G, Kuzmanović N, Marcenò C, Milanović D, Ruprecht E, Šibík J, Stanisci A, Vassilev K, Willner W and EUROALP Consortium

12:00-12:15 Coenological and syntaxonomical features of relic populations of two *Salix* species in the high-altitude sector of the Apennines

Di Pietro R

12:15-12:30 Fine-scale patterns of mountain tundra vegetation

Czóbel Sz, Maglódi G, Baltazár T, Rusvai K & Szirmai O

12:30-12:45 Counteracting summer drought: Osmolyte accumulation in orophytes from Mediterranean high-mountain communities

Magaña Ugarte R, Escudero A & Gavilán RG

12:45-13:00 Analysis of global diversity patterns of alpine vegetation

Testolin R, Attorre F & Jiménez-Alfaro B

13:00-13:15 Ozone risk assessment for Mediterranean high mountain grasslands at the Guadarrama mountain range

Elvira S, González-Fernández I, Bermejo-Bermejo V, Sanz J, García-Gómez H, Rabago I, Alonso R

13:15-14:30 Lunch

14:30-15:45 Poster Session I

Session 3. Assessment and Conservation of European Habitats I

Chair: *Mirjana Ćuk*

15:45-16:00 Threatened and endemic species associated with habitat types in Europe - overview

Hobohm C, Beierkuhnlein C, Moro-Richter M

16:00-16:15 **First overview on the 4th Annex I Habitats Report in Italy: methods, criticality, results and future prospects**

Gigante D, SBI-4RH & Angelini P

16:15-16:30 **Monitoring and status of Natura 2000 habitats in Flanders, Belgium**

Paelinckx D, Westra T, Oosterlynck P, Lommelen E & De Bie E

16:30-17:00 **Coffee/Tea break**

Session 4. Assessment and Conservation of European Habitats II

Chair: Daniel Sánchez-Mata

17:00-17:15 **Habitat identification by satellite images**

Šibík J, Mikula K, Jarolímek I, Kollár M, Podroužková-Medvecká J, Škodová I, Urban J & Šibíková, M

17:15-17:30 **Challenges in classification of mosaic vegetation and implications to ecosystem change studies in northern mires**

Tahvanainen T & Kolari T

17:30-17:45 **Establishing Natura 2000 in Albania: state of the art and future perspectives**

Mahmutaj E, De Sanctis M, Fanelli G, Hoda P, Mullaj A, Mesiti A, Meço M, Kashta L, Gjeta E, Shuka L, Cambria V, Buffi F & Attorre F

17:45-18:00 **Biotope as a syntaxa complex**

Didukh Ya., Kuzemko A.

18:00-18:15 **Discovering missing parts in an island ecosystem**

García-Cervigón AI, Sangüesa-Barreda G, García-Hidalgo M, Rozas V, Martín-Esquivel JL & Olano JM

18:15-18:30 **Syntaxonomical diversity of Strazhata hill in the central part of north Bulgaria**

Nazarov M, Vassilev K, Gecheva G, Mardari C & Velev N

Wednesday, 4 September 2019

9:00-9:45 **Keynote Lecture: Alessandro Chiarucci (University of Bologna)**

A sampling approach for habitat monitoring at national scale

Session 5. Vegetation Patterns in the Palearctic

Chair: Manuela Winkler

9:45-10:00 **Phytosociological alliances of zonal boreal forests in Northern Europe**

Jašková A, Chytrý M & Data Contributors

10:00-10:15 **The temperate deciduous forests of Europe and western Asia: a survey on their biogeography and diversity**

Loidi J, Marcenò C, Campos JA, Chytrý M, Gholizadeh H, Jiménez-Alfaro B, Knollová I, Naqinezhad A, Novák P, Nowak A, Petřík P & Data Contributors

10:15-10:30 **Oak-hornbeam forests from the European perspective – Currently recognized alliances, a faithful mirror of their floristic variability?**

Novák P & Data Contributors

10:30-10:45 **Benchmarking plant diversity of Palearctic grasslands**

Biurrun I, Dengler J, Burrascano S, Dembicz I, García-Mijangos I, Guarino R, Kapfer J, Pielech R, Soliveres S, Steinbauer MJ & GrassPlot Consortium

10:45-11:00 **European annual weed vegetation: first results of numerical classifications**

Küzmič F, Šilc U, Lososová Z, Mucina L & Data Contributors

11:00-11:30 **Coffee/Tea break**

Session 6. Methods and Databases for Vegetation Studies

Chair: John Rodwell

11:30-11:45 **Probabilistic key for identifying vegetation types in the field: a new method and Android application**

Tichý L & Chytrý M

11:45-12:00 **Using model-based classification in the phytosociology: possible solutions and examples of application**

Botta-Dukát Z

12:00-12:15 **Pladias.cz: an online database of the Czech flora and vegetation**

Chytrý M, Danihelka J, Kaplan Z, Lepš J, Wild J, Holubová D, Novotný P, Řezníčková M, Rohn M, Grulich V, Klimešová J, Lososová Z, Pergl J, Sádlo J, Šmarda P, Bartušková A, Blažek P, Chrtek Jr. J, Dřevojan P, Fischer FM, Guo W-Y, Herben T, Konečná M, Kühn I, Moravcová L, Petřík P, Pierce S, Prokešová H, Štěpánková P, Štech M, Těšitel J, Těšitelová T, Tichý L, Večeřa M, Zelený D & Pyšek P

12:15-12:30 **Using the beta distribution to analyse plant cover data**

Damgaard C

12:30-12:45 **Modelling vegetation composition and plant richness across spatial scales and environmental gradients in Central Apennines Mountains**

Di Musciano M, Theurillat JP, Guisan A, Bronnimann O, Cutini M, Iocchi M, Frattaroli AR

12:45-13:00 **VigLib, using Python in vegetation data analysis**

Hatim MZ

13:00-13:15 **An Expert System for Dutch plant communities**

Janssen JAM, Schaminée JHJ, Hennekens SM, Tichý L, Chytrý M

13:15-14.30 **Lunch**

14:30-15.45 **Poster session II**

Session 7. Mediterranean and Thermophilous Forests

Chair: Idoia Biurrun

15:45-16:00 **Preliminary results from the classification of the thermophilous oak forests in Bulgaria**

Tzonev R, Dimitrov M, Gushev Ch, Pachedjieva K, Gogushev G, Apostolova-Stoyanova N, Nikolov I, Aleksandrova A & Glogov, P

16:00-16:15 **Native forest dominance patterns in the Iberian Peninsula**

Monteiro-Henriques T, Cerdeira JO, Cabeza M, Aguiar C & Fernandes PM

16:15-16:30 **Mediterranean and Submediterranean pine forests: Approaching the end of a classification tale**

Bonari G, Coban S, Font Castell X, Agrillo E, Bergmeier E, Acosta ATR, Angiolini C, Didukh YP, Xystrakis F, Sağlam C & Chytrý M

16:30-16:45 **Thermophilous forest fringe vegetation in Ukraine: a review of syntaxa and habitat types**

Iakushenko D

16:45-17:15 **Coffee/Tea break**

Session 8. Mediterranean, Temperate and Boreal Forests

Chair: Rossen Tzonev

17:15-17:30 **Vegetation diversity of Mediterranean woodlands in Turkey**

Kavgacı A, Balpınar N, Öner HH, Arslan M & Carni A

17:30-17:45 **Are Italian laurophylls in equilibrium with climate? From their Quaternary refugia to the potential area of spread**

Alessi N, Těšitel J, Zerbe S, Spada F, Agrillo E & Wellstein C

17:45-18:00 **The forest vegetation of the middle boreal subzone high-rank syntaxonomic units review in Middle Siberia**

Krivobokov L, Mukhortova L

18:00-18:15 **Calcicolous rock-outcrop lime forests in the eastern part of Central Europe**

Zukal D, Novák P, Duchoň M & Chytrý M

18:15-18:30 **Floristic and coenotic diversity of Vyatka-Kama biome**

Kadetov N

Thursday, 5 September 2019

9:00-9:45 **Keynote Lecture: María Pilar Rodríguez-Rojo (Castilla-La Mancha University)**

Singularity of Iberian Mediterranean grasslands in the European context

Session 9. Wetlands, Riparian and Aquatic Vegetation

Chair: Daniela Gigante

9:45-10:00 **Reinforce of the network of riparian vegetation group and disseminate the current results done under COST CONVERGES**

Mandžukovski D, Dufour, S, González del Tanago M, Čarni A, Douda J, Vassilev K, Sibikova M, Stupar V, Čušterevska R, Slezák M, Stešević D, Škvorc Ž, Kavgaci A, Šibik J, Jasprica N

10:00-10:15 **The MedIsWet project in Sicily and Sardinia. An opportunity for improving wetland knowledge and conservation. Preliminary results**

Marcenò C, Minissale P, Sciandrello S, Cuena-Lombraña A, Fois M & Bacchetta G

10:15-10:30 **How to sample water-dependent protected plant species in a standardized way to be taken into account in the hydrological planning processes? Insights from Spain**

Cortés FM, Magdaleno F, López-Piñeiro T, Viu M & Vallejo N

10:30-10:45 **Calcareous fen succession in Engure Lake Nature Park in Latvia**

Pakalne M, Priede A

10:45-11:00 **Classification of *Schoenus ferrugineus* L. communities from eastern Baltic to the Southern Ural**

Auniņa L, Ivchenko T, Rašomavičius V, Smagin V & Truus L

11:00-11:30 **Coffee/Tea break**

Session 10. Vegetation Dynamics and Succession in Different Habitats I

Chair: Borja Jiménez-Alfaro

11:30-11:45 **Disturbance impacts in temperate forests are increasing: 10 years of monitoring understory vegetation in Slovenia**

Kutnar L & Nagel TA

11:45-12:00 **Aizjoms – ancient extensive agriculture land “behind beach” in old fishermen villages along SW coast in Latvia**

Rove I

12:00-12:15 **Study of vegetation on recent lava flows in the Güimar Valley, Tenerife, Canary Islands**

Martín Osorio VE, González Negrín R, Wildpret de la Torre W & Wildpret Martín WH

12:15-12:30 **Using conjointly species abundance in plots and phylogeny to approach vegetation classification. A case-study on Macaronesia’s woody vegetation**

Capelo J

12:30-12:45 **Facilitation by nurse plant *Juniperus communis* subsp. *hemisphaerica* and its role on natural regeneration of cedar forest on the southern slope of Djurdjura (Algeria)**

Meddour R, Sahar O, Bitam L & Belhacene D

12:45-13:00 **Investigation of the weed infection of baits in the Mátra Landscape Protection Area**

Rusvai K, Baltazár T, Czóbel Sz

13:00-13:15 **Vegetation succession within the last 16 years in a limestone quarry in central Spain.**

Isabel J, Sardinero S & Fernández-González F

13:15-14:30 **Lunch**

14:30-15:15 **Poster Session III**

15:15-15:45 **EVS Business Meeting**

Session 11. Vegetation Dynamics and Succession in Different Habitats II

Chair: Anna Kuzemko

15:45-16:00 **Remote sensing techniques for investigation of plant communities’ syntaxonomy: two cases from Russia**

Komarova, A, Cherednichenko, O, Borodulina, V, Gavrilova, T, Zudkin, A

16:00-16:15 **Phenological trends in plant communities dominated by grasses in Mediterranean areas**

Rojo J, Romero-Morte J, Lara B, Fernández-González F & Pérez-Badía R

16:15-16:30 **Hydrochemical and vegetation trends and dynamics across the poor-rich gradient in a boreal aapa mire over 20 years**

Kolari T, Korpelainen P, Sallinen A, Kuzmin A, Kumpula T & Tahvanainen T

16:30-17:00 **Coffee/Tea break**

Session 12. Vegetation Dynamics and Succession in Different Habitats III

Chair: Fabio Attorre

17:00-17:15 Succession in soil and plant-community attributes along a chronosequence of abandonment vineyards

Diéguez A, Quintanar JR, Molina JA & Valverde I

17:15-17:30 Increased drought and high maximum temperatures alter recruitment patterns in Mediterranean forests: Linking climate, canopy cover and seedling survival in three co-occurring tree species

de-Dios-García J, Pardos M, Madrigal G, Garriga E, Conde M, Kobe R, Calama R

17:30-17:45 Biotic and abiotic conditions and vegetation diversity during spontaneous succession on postindustrial sites – the info-geographical approach

Woźniak G, Chmura D, Malicka M, Magurno F & Galka R

17:45-18:30 Closing Ceremony

20:00-23.30 Social Dinner