

28<sup>th</sup> 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 4<sup>th</sup> Annex I Habitats Report in Italy: methods, criticality, results and future prospects

**Gigante D<sup>1,2</sup>, SBI-4RH<sup>2</sup> & Angelini P<sup>3</sup>**

<sup>1</sup>*Department of Agricultural, Food and Environmental Sciences. University of Perugia. I-06121 Perugia, Italy;* <sup>2</sup>*Working Group of the Italian Botanical Society for the 4<sup>th</sup> 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; <sup>3</sup>*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 4<sup>th</sup> 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**

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**Monday, 2 September 2019**

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18:00-20:00 **Registration and Welcome drink**

**Facultad de Farmacia (New Pharmacy Building)**

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**Tuesday, 3 September 2019**

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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*

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**Session 1. Sand-Dune and Halophilous Vegetation**

*Chair: Iva Apostolova*

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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**

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**Session 2. High-Mountain Vegetation**

*Chair: Milan Chytrý*

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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**

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**Session 3. Assessment and Conservation of European Habitats I**

*Chair: Mirjana Ćuk*

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

*Hobohm C, Beierkuhnlein C, Moro-Richter M*

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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**

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#### **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*

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**Wednesday, 4 September 2019**

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

*A sampling approach for habitat monitoring at national scale*

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#### **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**

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#### **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**

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### Session 7. Mediterranean and Thermophilous Forests

*Chair: Idoia Biurrun*

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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**

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### Session 8. Mediterranean, Temperate and Boreal Forests

*Chair: Rossen Tzonev*

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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*

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Thursday, 5 September 2019

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

*Singularity of Iberian Mediterranean grasslands in the European context*

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**Session 9. Wetlands, Riparian and Aquatic Vegetation**

*Chair: Daniela Gigante*

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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**

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**Session 10. Vegetation Dynamics and Succession in Different Habitats I**

*Chair: Borja Jiménez-Alfaro*

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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**

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**Session 11. Vegetation Dynamics and Succession in Different Habitats II**

*Chair: Anna Kuzemko*

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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**



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**Session 12. Vegetation Dynamics and Succession in Different Habitats III**

*Chair: Fabio Attorre*

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**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**