

SISV 2026

59th congress
PALERMO

59th INTERNATIONAL CONGRESS
ITALIAN SOCIETY OF VEGETATION SCIENCE
Società Italiana di Scienza della Vegetazione (SISV)

Vegetation Science for Sustainability and Ecological Transition

Programme

June 4–5, 2026

Botanical Garden of the University of Palermo
Via Lincoln 2, Palermo, Italy

June 6, 2026

Field trip to Parco della Favorita, Palermo



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Welcome

The 59th International Congress of the Italian Society for Vegetation Science (SISV) will focus on the fundamental role of vegetation science in understanding ecosystem functioning and in supporting concrete pathways towards sustainability and ecological transition.

In a context marked by global environmental change, climate instability, and biodiversity loss, vegetation science provides essential conceptual and applied tools to interpret ecological processes and to design effective strategies for conservation, management, and ecosystem restoration.

Special attention will be devoted to traditional agroecological systems, which are increasingly recognised as exemplary models for integrating biodiversity conservation, sustainable land-use practices and resilient territorial management. These systems, shaped by the long-term coevolution between human societies and local environments, represent a natural and cultural heritage of exceptional value and offer valuable insights for addressing current challenges related to ecological transition.

Organizing committee

Giuseppe Bazan, Lorenzo Gianguzzi, Riccardo Guarino, Eliana Lombardo, Rosario Schicchi, Natale Surano

Scientific committee

Claudia Angiolini, Giuseppe Bazan, Erwin Bergmeier, Daniela Ciccarelli, Panayotis Dimopoulos, Romeo Di Pietro, Edy Fantinato, Lorenzo Gianguzzi, Riccardo Guarino, Javier Loidi, Corrado Marcenò, Carmelo Maria Musarella, Salvatore Pasta, Rosario Schicchi, Francesco Sottile, Daniele Viciani

Congress Secretariat

Edy Fantinato, infosiv@gmail.com



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PROGRAMME

Thursday | June 4, 2026

12:00
14:00

Sala Lanza - Orto Botanico *Registration*

Opening Ceremony

MASSIMO MIDIRI – *Rector, University of Palermo*

MICHELANGELO GRUTTADAURIA – *President, UniPa Heritage*

ROSARIO SCHICCHI – *Director, Palermo Botanical Garden*

MAURIZIO CELLURA – *President, Center for Sustainability and Ecological Transition, University of Palermo*

ANTONIO PALUMBO PICCIONELLO – *Director, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF)*

ROMEO DI PIETRO – *President, Italian Society of Vegetation Science (SISV)*

14:30

Session 1 - Vegetation patterns, processes and diversity - Part I

Session dedicated to Professor Sandro Pignatti

Chairpersons: Rosario Schicchi and Giuseppe Bazan

14:30

Guarino R.

In memory of Professor Sandro Pignatti

14:45

Di Pietro R., Fernandez-Gonzalez F., Theurillat J.P., Terzi M.

Phytosociological nomenclature papers and high-rank syntaxa typifications: coenological and biogeographic consequences at European scale.

15:00

Viciani D., Lonati M., Nota G., Minissale P., Acosta A.T.R., Adorni M., Allegrezza M., Angiolini C., Assini S., Bagella S., Bolpagni R., Bonari G., Boscutti F., Cannucci S., Casavecchia S., Ciccarelli D., Comunello D., Dalle Fratte M., Dell'Olmo L., de Simone L., Del Vecchio S., Di Biase L., Di Pietro R., Fanfarillo E., Fiaschi T., Gennai M., Gianguzzi L., Gigante D., Labadessa R., Lastrucci L., Lazzaro L., Misuri A., Morabito A., Mugnai M., Musarella C.M., Patera G., Pelella E., Pellizzari M., Poponessi S., Prisco I., Riviaccio G., Sciandrello S., Selvaggi A., Siccardi E., Spampinato G., Stanisci A., Tardella F.M., Tasinazzo S., Tesei G., Trotta G., Valle B., Varricchione M., Villani M., Zanatta K., Stinca A.

An Atlas of Alien-Dominated Vegetation in Italy: Distribution and Syntaxonomic Synthesis



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- 15:15 Terranova G., Chytrý M., Axmanová I., Angiolini C., Candini F., Ciaramella D., Erkelenz J., Bonari G.
Ecological characterisation of *Tetraclinis articulata*-dominated communities
- 15:30 Gianguzzi L., Caldarella O.
Contribution to the characterization of the vegetation of the wetlands of Bosco Ficuzza and Rocca Busambra (North-Western Sicily)
- 15:45 Coffee break**
-
- 16:15 Session 1 - Vegetation patterns, processes and diversity - Part II**
Chairpersons: *Lorenzo Gianguzzi and Corrado Marcenò*
- 16:15 Marici C., Cambria S., Giusso del Galdo G.
Forest habitats and communities: where do trees grow in Sicily?
- 16:30 Gianguzzi L., Cambria S.
Glacial Relict Vegetation in Sicily: A Phytosociological Survey of the *Petasites hybridus* stands
- 16:45 Patera G., Barcheri S., Della Torre N., Morotti M.
Between water and land: syntaxonomy, synecology and dynamics of *Phragmites australis* communities in the Po Plain
- 17:00 Sciandrello S., Giusso del Galdo G.
Coastal dune vegetation of the Gulf of Gela (Sicily)
- 17:15 Poster session**
- 18:15 General Assembly of the SISV members**
- 21:00 Social dinner** - Al Magnum (via E. Amari, 62)



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Friday June 5, 2026

09:00

Session 2 – Traditional agroecological systems: vegetation values, management and restoration opportunities

Chairpersons: Romeo Di Pietro and Francesco Sottile

KEYNOTE LECTURE

09:00

Bergmeier E.

Plant diversity associated with farming in the Aegean

09:30

La Bella G., Bopp M., Bürger J., Juárez A., Leclef N., Barkaoui K., Bastin S., Bernadas G., Cambecèdes J., Cordeau S., Frelat R., Genty L., Giffard B., Martin Lefevre L., Metay A., Metcalfe H., Michelot Antalík A., Ricci B., van Mesdag S., Winter S., Fried G., Kazakou E.
Trait syndromes of plant winners and losers in European agroecosystems under long-term agricultural intensification

09:45

Siccardi E., Volanti V. A., Coppi A., Scartazza A., Peruzzi E., Lazzeri V., Sarti M., Bretzel F., Doni S., Latilla L., Mattioni M., D'Alò F., Volterrani C., Tesfamariam B. G., Gavrichkova O., Lazzaro L.
Vegetation dynamics and climate resilience in semi-natural grasslands: preliminary insights from the CAROLINA project across chronosequences and climate manipulation experiments

10:00

Spampinato G., Morabito A., Musarella C.M.
Chestnut woods in Calabria (Southern Italy)

10:15

Siccardi E., Mugnai M., Lazzaro L., Manetti M.C., Pollastrini M., Bajona E., Cambria S., Mascia F., Angiolini C., Terzaghi M., Tomaselli V., Paziienza G., Fanfarillo E., Fiaschi T., Picchiotti A., D'Agostino M., Zangari G., Maccherini S., Lonati M., Nota G., Ravetto Enri S., Pittarello M., Fois M., Cuenca Lombraña A., Castangia D., Pezzi G., Landi S., Adorni M., Fenu G., Cogoni D., Calderisi G., Boscutti F., Trotta G., Cingano P., Boscarol G., Viciani D.
Effects of management abandonment and tree health on *Castanea sativa* Mill. stands across a latitudinal gradient in Italy.

10:30

Cobo M.C.
Spatial dynamics of soil and vegetation in the restoration of abandoned dry-semiarid Mediterranean agroecosystems

10:45

Guarino R., Bazan G.
Traditional Agroecological Landscapes as Self-Organised Systems: Vegetation Dynamics, Ecological Resilience, and Restoration Challenges in Mediterranean Rural Areas

11:00

Coffee break



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11:30

Session 3 – Habitat conservation: assessment, monitoring and trends – Part I

Chairpersons: Edy Fantinato and Daniela Ciccarelli

11:30

Bagella S., Acosta A., Allegrezza M., Angiolini C., Assini S., Bonari G., Buffa G., Caccianiga M., Caria M.C., Farris E., Frattaroli A.R., Gianguzzi L., Giusso del Galdo G.P., Malavasi M., Spampinato G., Viciani D., Barcella M., Ciaramella D., de Simone L., di Cecco V., Galdenzi D., Gennai M., La Mantia A., Lorenzato L., Maneli F., Miraglia G., Morabito A., Pisanu S., Riviaccio G., Selvaggi A., Sini A., Sperandii M.G., Tesei G., Bacchetta G., Bacilliere G., Bazan G., Bolpagni R., Brancaleoni L., Cannucci S., Castello M., Ciaschetti G., Ciccarelli D., Copiz R., Cutini M., D'Agostino M., Dalle Fratte M., Denaro A., di Martino L., Fanfarillo E., Fantinato E., Fascetti S., Fiaschi T., Filesì L., Foggi B., Forte L., Gerdol R., Guarino R., La Bella G., Lasen C., Marcenò C., Mariotti M., Mascia F., Mei G., Merloni N., Morabito A., Musarella C.M., Oriolo G., Patera G., Perrino E.V., Petraglia A., Petriccione B., Postiglione N., Puglisi M., Sciandrello S., Stanisci A., Stinca A., Strumia S., Tomaselli V., Valle B., Venanzoni R., Villani M., Zangari G., Angelini P., Carli E., Casella L., Pretto F., Gigante D.

Enhancing biodiversity reporting under the Habitat directive: the Italian framework for the V Cycle

11:45

Bonari G., Bagella S., Candini F., Comunello D., Gigante D., SISV and ISPRA members

A preliminary overview of habitat patterns in Italy

12:00

Gigante D., Copiz R., Blasi C., Canini A., Frattaroli A.R., Gianguzzi L., Oriolo G., Spampinato G., Allegrezza M., Bacchetta G., Bagella S., Bonacquisti S., Buffa G., Venanzoni R., Zavattoni L., Bardi A., Bertani R., Oneto F., Sammiceli F., Strazzaboschi L., Turcato C., Adorni M., Agazzi G., Amantea D., Antinori T., Armiraglio S., Beccarisi L., Boschi I., Brentazzoli F., Briozzo I., Bronzini L., Cameriere P., Casamenti L., Ciaschetti G., Conte A., Crisafulli A., Croci G., Curcio E., Dagnino D., Dalle Fratte M., Di Cecco V., Di Martino L., Di Renzo A., Fantinato E., Galdenzi D., Gargano D., Gesuelli E., Giancola C., Grassi A., La Mantia A., Lipreri E., Lorenzato L., Maestri S., Maneli F., Maniscalco M., Mascia F., Massimi M., Merloni N., Merluzzi P., Molducci P., Odasso M., Passalacqua N.G., Patera G.T., Pazienza G., Perri G., Perrino E., Pezzuolo L., Robetti G., Rodi E.S., Rovito S., Ruggero A., Santostefano B., Solfrini L., Stinca A., Tampucci D., Todeschi P., Tomaselli V., Turco A., Viscardi A., Angelini P.,



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Carli E., Casella L., Perez M., Pretto F., Picone C., Rigoni P.
A landmark initiative in Annex I habitat monitoring: the Italian national parks experience

12:15

Ciccarelli D., Napoleone F., Galloni M.
ANTHOS: a collaborative framework for standardized floral trait data

12:30

La Mantia A., Restuccia V., Virgilio F., Crisafulli A., Cristaudo A., Spampinato G., Gianguzzi L., Astrid Natura contributors
Biodiversity Conservation in Sicily: Conservation Measures on Natura 2000 Sites of the Protected Regione Siciliana Owned Forests

12:45

Grassi A., Bonini F., Hoffmann N., Lilli E., Di Cecco V., Antonucci A., Casavecchia S., Di Martino L., Pauselli M., Gigante D.
Characterization and Grazing Impact in High-Altitude Habitats of the Apennine Chamois (*Rupicapra pyrenaica ornata*)

13:00

Lunch Caffetteria Talea - Orto Botanico

14:00

Session 3 – Habitat conservation: assessment, monitoring and trends – Part II

Chairpersons: Carmelo M. Musarella and Riccardo Guarino

14:00

Marzialetti F., Arcidiaco L., Brundu G., Costa Suara J.M., Sirca C., Trabucco A., Spano D., Mereu S.
Assessing climate change impacts on Holm oak forest combining Copernicus data and high-resolution satellite imagery on Mediterranean areas

14:15

Cini E., Perrone M., Acosta A.T.R., Allevato E., Angiolini C., Bagella S., Bartak V., Bazan G., Bertacchi A., Brancaleoni L., Buffa G., Calbi M., Caria M.C., Ciccarelli D., Cutini M., de Francesco M.C., De Natale A., Del Vecchio S., Di Biase L., Fantinato E., Fiaschi T., Gangale C., Gerdol R., Gianguzzi L., Laface V.L.A., Maccherini S., Malavasi M., Morabito A., Mugnai M., Musarella C.M., Pafumi E., Santangelo A., Sarmati S., Sciandrello S., Siccardi E., Spampinato G., Stanisci A., Strumia S., Viciani D., Marzialetti F.
Greening signals in Mediterranean dune ecosystems: insights from Landsat time series and vegetation resurveys in Italy

14:30

Sciandrello S., Giudice E., Scuderi L., Lo Presti V., Giusso del Galdo G.
Dune restoration and habitat monitoring of the Macconi di Gela (southern Sicily)



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- 14:45 Caporusso C., Assini S., Tomaselli V.
From dunes to wetlands: Plant communities along the Ariscianne coast (Apulia, Southern Italy)
- 15:00 Monari D., Minissale P., Cambria S.
Phytosociological investigations of the Roraima tepui in the Guayana Highlands
- 15:15 Biagioli M., Marcenò C., Gristina A.S., Genduso E., Concezzi L., Diodati D., Venanzoni R., Guarino R.
A habitat-template approach for green infrastructure design in Mediterranean urban areas
- 15:30 Coffee break**
-
- 16:00 Session 4 – Free session**
Chairpersons: Daniele Viciani and Salvatore Pasta
- 16:00 Malavasi M., Maccioni A., Bagella S., Marignani M., Tillocca B., Lupinu G., Bartak V., Farris E.
Charting Traditional Ecological Knowledge in Sardinia (Italy) via Plant Vernacular Names and Etymology
- 16:15 Vincent B.
A rebel alliance? The relationship between association and alliance in phytosociology theory from the point of view of linguistics
- 16:30 Preo S.M., Zendri E., Gnemmi M., Cairoli A., Buffa G., Della Bella A., Fantinato E.
An indicator-based protocol for urban green infrastructure: assessing ecological networks to prioritize management strategies
- 16:45 Candini F., Bonafede F., Vignodelli M., Sabatini F.M.
Thirty years of natural succession in a restored urban green area, Bologna, Italy
- 17:00 La Scala S., Di Leto Y., Scirè Calabrisotto L., Cosimi G., Carpintieri D., Badalamenti E., Gandolfi I., Federici E., Gallo G., Catania V., Quatrini P.
Harnessing Mediterranean plant-microbiota systems for anti-pollution and anti-noise road barriers

- 17:15 | Bazan G., Zuzolo D., Geraci A., Prigioniero A., Sgadari F., Tartaglia M., Guarino C., Schicchi R.
Landscape fragmentation and floristic diversity in *Chamaerops humilis* communities of Sicily and Sardinia
- 17:30 | Porrovecchio M., Cambria S., Bacilliere G., Puglisi M., Minissale P.
The diversity of plant communities in agriphotovoltaic systems in Sicily
- 17:45 | **Closing ceremony**
- 18:30 | **Scientific guided tour of the Botanical Garden of Palermo**
Led by Prof. Rosario Schicchi, Director of the Botanical Garden.

Saturday June 6, 2026

- 08:30 | **FIELD TRIP – Flora and vegetation of the Parco della Favorita and the cliffs of Monte Pellegrino (Palermo)**
Led by Lorenzo Gianguzzi, Department of SAAF, University of Palermo
Meeting point, Via del Fante angolo Viale Rocca, Palermo.



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LIST OF POSTERS

Session 1

P.1.1. Fortini P., Di Marzio P., Quaranta L., Proietti E., Conte A.L., Ciaramella D., Ciaschetti G., Di Pietro R.

Study of the grasslands of the Alto Molise Sector (South-Central Italy)

P.1.2. Ricci L., Frattaroli A.R., Mones G.V., Cutini M., Theurillat J.P., Di Musciano M.
Effects of grain size on plant diversity patterns in a Mediterranean mountain

P.1.3. Comunello D., Mainetti A., Lonati M., Nota G., Pittarello M., Ravetto Enri S., Brusa G., Bonari G.

The vegetation database of Gran Paradiso National Park (Italy)

Session 2

P.2.1. Le T.H., Bricca A., Zerbe S., Indreica A., Metz J., Sauerwein M., Bonari G.

Effects of multi-scale drivers on plant diversity and forage quality in wood-pastures of Transylvania (Romania)

P.2.2. La Bella G., Frelat R., Bopp M., Barkaoui K., Bastin S., Bernadas G., Bürger J., Cambecèdes J., Cordeau S., Genty L., Giffard B., Juárez A., Leclef N., Martin-Lefevre L., Metay A., Metcalfe H., Michelot-Antalik A., Ricci B., van Mesdag S., Winter S., Fried G., Kazakou E.

Contrasting functional trait spaces of arable weeds in annual and perennial European agroecosystems

P.2.3. Quaranta L., Di Marzio P., Versace S., Fortini P.

Leaf functional traits studies in urban reforestation species: first results of a systematic review

Session 3

P.3.1. Bonini F., Grassi A., Cinti E., Maovaz M., Micucci M., Montanucci A., Negri V., Raggi L., Sayde E., Zucchini C., Gigante D.

Germplasm banking and living collections for plant species and habitat conservation: experiences from the LIFE IMAGINE project

P.3.2. Schicchi R., Amato F., Lombardo E., Surano N., Bazan G.,

Conservation Strategies for Natura 2000 Habitats in the Nebrodi Mountains Management Plan



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Session 4

P.4.1. Armiraglio S., Lipreri E., Simonetto A., Contardo T., Ghiglieno I., Gilioli G.
Evaluating the establishment of xeric grassland species on extensive green roofs: a case study in Brescia, Italy

P.4.2. Miraglia G., Colombo C., Sciandrello S., Giusso del Galdo G.
Refugia for *Woodwardia radicans*: A Species Distribution Modeling Approach for Targeted Conservation in the Mediterranean Basin

P.4.3. Morabito A., Musarella C.M., Caridi D., Ochoa Ramos N.Y., Spampinato G.
Methodology for the bioclimatic mapping of the Calabria region: overcoming global model limitations through local-scale analysis

P.4.4. Palii P., Porrovecchio M., Camilleri L., Micallef G., Puglisevich E., Schmidbauer L., Mifsud D., Lanfranco S.
Invasive alien plants as graded bioindicators of urbanisation: response patterns along an urban–rural gradient

P.4.5. Musarella C.M., Mammoliti A., Bagnato S., Bombino G., Proto A.R., Marziliano P.A.
Experimental post-implementation monitoring of urban reforestation projects in Italy: the “Riforest@graria” case study (Reggio Calabria)

P.4.6. Cannucci S., Bricca A., Bonari G., Zerbe S., Montagnani L.
Traditional Medicinal Plants Across Eastern Alps Forest Types

P.4.7. Zitarelli C., Cini E., Marzialetti F., Acosta A.T.R., Cutini M.
Long-term alpine vegetation dynamics under unstable snow conditions

P.4.8. Speciale C., Castrorao Barba A., Marino P., Bazan G.
Historical Vegetation Ecology in the Sicani Mountains (Sicily): An Integrated Approach Based on Archaeobotany and Phytosociology

P.4.9. Cano Ortiz A., Musarella C.M., Peña Martínez J., Sánchez Martínez J.D., Quinto Canas R.
Experiential Learning and Ecosystem Services: Revaluing the Plant World in Teacher Education through Living Classrooms



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FIELD TRIP

Flora and vegetation of the Parco della Favorita and the cliffs of Monte Pellegrino (Palermo)

Organized by Lorenzo Gianguzzi
(Department of SAAF, University of Palermo)

June 6, 2026 – Walking itinerary between the Parco della Favorita and the foothills of the cliffs of Monte Pellegrino [circular flat route of approximately 3–4 km (08:30–14:00/15:30), with an elevation range between 50 and 150 m a.s.l.].

The Parco della Favorita (also known as *Real Tenuta della Favorita*) covers approximately 4 km² to the north of the city centre, at the foothills of Monte Pellegrino. It has significant historical value – having been established in 1799 by King Ferdinand III of Bourbon as a royal estate for hunting and agricultural experimentation – as well as notable naturalistic importance. For this reason, it is included within the regional nature reserve “Monte Pellegrino”, at the margins of the Special Protection Area ITA020014.

The planned route develops across the calcarenitic sands of the Palermo plain, as well as the detrital slopes and carbonate cliffs of Monte Pellegrino, within the thermomediterranean subhumid bioclimatic belt.

The field trip will focus on the main floristic and phytocoenotic features characterising the vegetation landscape (Fig. 1), structured around the following forest communities as head of series:

- i) **Holm oak forest (*Quercus ilex*)** (*Pistacio lentisci-Quercetum ilicis* Brullo & Marcenò 1985, subass. *viburnetosum tini* Gianguzzi et al. 1996), established on humified soils developed on Quaternary calcarenites [Solimovic Regosol (Arenic)];
- ii) **Sclerophyllous maquis with *Phillyrea latifolia***, including *Arbutus unedo* and *Viburnum tinus* (*Viburno tini-Phillyreetum latifoliae* Gianguzzi & Caldarella 2024), associated with sandy and xeric soils on Quaternary calcarenites [Eutric Arenosol (Chromic)];
- iii) **Wild olive woodland/maquis** (*Ruto chalepensis-Oleastretum sylvestris*, subass. *cercidetosum siliquastri* Gianguzzi & Bazan 2020), occurring on detrital-clastic substrates surrounding Monte Pellegrino [Skeletal Regosol (Ochric)];
- iv) **Shade maquis with *Phillyrea latifolia*** (*Teucrio flavi-Phillyreetum latifoliae* Gianguzzi & Caldarella 2024), also on detrital substrates, but on shaded slopes interspersed among the cliffs of Monte Pellegrino.

These communities partly represent dense and impenetrable forest formations (“subclimax”), resulting from long-term development under low disturbance conditions, and include the presence of old-growth individuals of forest and maquis species (e.g. *Phillyrea latifolia*, *Arbutus unedo*, *Pistacia terebinthus*, *Olea europaea* var. *sylvestris*), some of which are among the largest recorded in the regional context.

The excursion will also examine the microgeoserries of the calcareous cliffs of Monte Pellegrino, partly referable to *Scabioso creticae-Centauretum ucrae* Brullo & Marcenò 1979, characterised by *Scabiosa cretica* and several rare or endemic species such as *Centaurea panormitana*, *Helichrysum panormitanum*, *Lithodora rosmarinifolia*, *Dianthus rupicola*, *Brassica rupestris*, *Seseli bocconeii*, *Euphorbia bivonae*, *Iberis semperflorens*, among others.



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Particular attention will also be given to plant communities dominated by invasive alien species – especially *Opuntia ficus-indica* (*Opuntietum* s.l.) and *Pennisetum setaceum* (*Penniseto setacei-Hyparrhenietum hirtae* Gianguzzi, Ilardi & Raimondo 1996) – which are currently expanding in xeric environments of the area, as well as in other parts of the Mediterranean region.

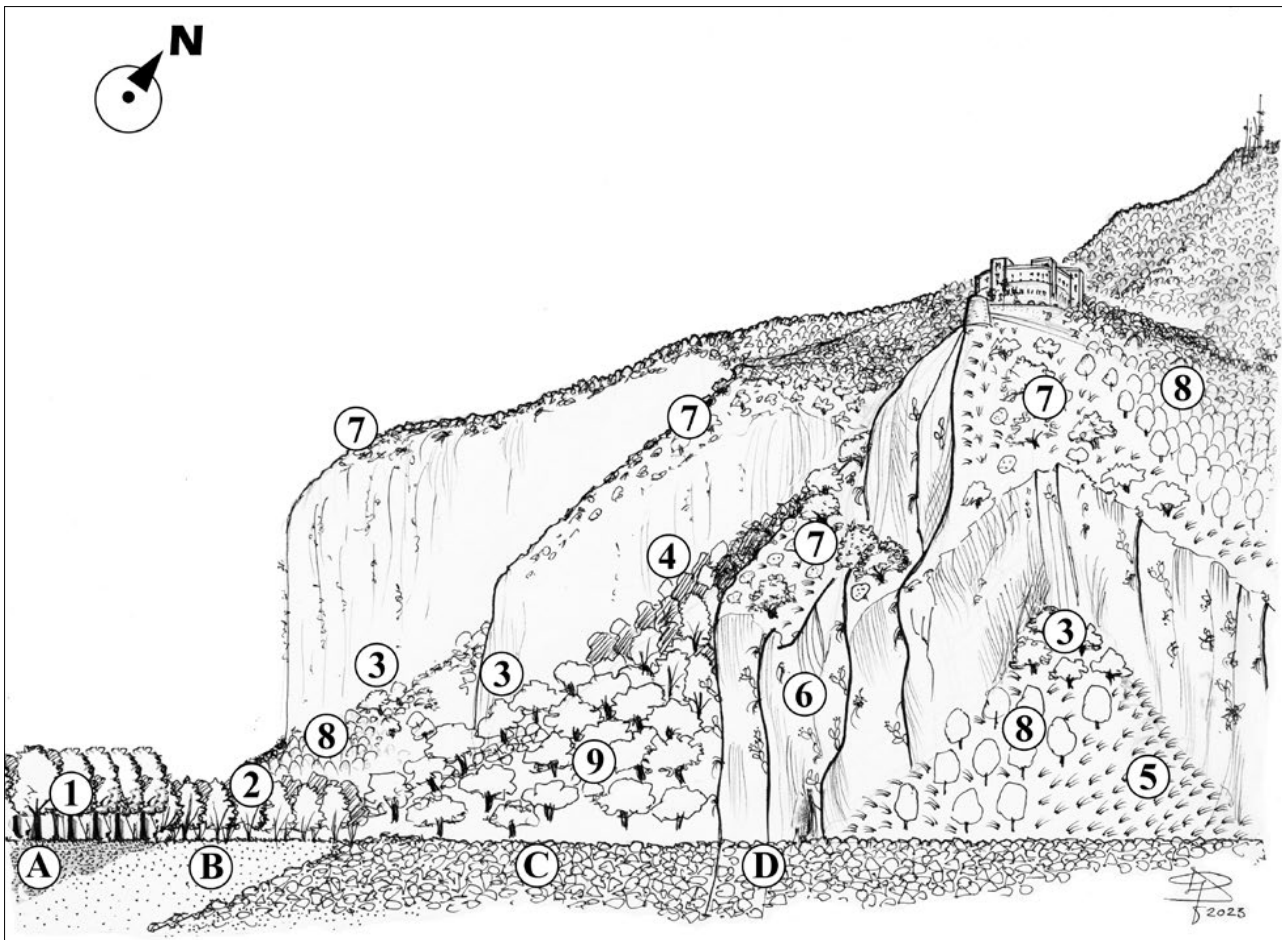


Figure 1. Schematic transect of the vegetation landscape between the Palermo plain (approximately 50 m a.s.l.) and the base of the cliffs of Monte Pellegrino (630 m a.s.l.).

Soil types: (A) Quaternary calcarenites [Solimovic Regosol (Arenic)]; (B) Quaternary calcarenites [Eutric Arenosol (Chromic)]; (C) detrital-clastic materials [Skeletal Regosol (Ochric)]; (D) limestones and dolomitic limestones.

Vegetation types: (1) *Quercus ilex* forest (*Pistacio lentisci-Quercetum ilicis*, subass. *viburnetosum tini*); (2) sclerophyllous forest-maquis with *Phillyrea latifolia*, *Arbutus unedo*, and *Viburnum tinus* (*Viburno tini-Phillyreetum latifoliae*); (3) maquis with *Olea europaea* var. *sylvestris* and *Cercis siliquastrum* (*Ruto chalepensis-Oleastretum sylvestris*, subass. *cercidetosum siliquastrum*); (4) shade maquis with *Phillyrea latifolia* and *Teucrium flavum* (*Teucro flavi-Phillyreetum latifoliae*); (5) grassland dominated by *Pennisetum setaceum* (*Penniseto setacei-Hyparrhenietum hirtae*); (6) chasmophytic vegetation (*Scabioso-Centauretum ucraiae*); (7) maquis with *Olea europaea* var. *sylvestris* and *Euphorbia bivonae* (*Ruto chalepensis-Oleastretum sylvestris*, subass. *euphorbietosum bivonae*); (8) artificial plantations; (9) former cultivations (olive groves, etc.).

(By GIANGUZZI et al., 2024)