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FLORA AND FUNGA RECORDS

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Notulae to the Italian alien vascular flora: 21

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Abstract

In this contribution, new data concerning the distribution of vascular flora alien to Italy are presented. It includes new records, and status changes from casual to naturalized or invasive for Italy or for Italian administrative regions for taxa in the genera *Asparagus*, *Bidens*, *Boerhavia*, *Campsis*, *Catharanthus*, *Cenchrus*, *Cortaderia*, *Cupressus*, *Cyperus*, *Elaeagnus*, *Eragrostis*, *Hydrocotyle*, *Lantana*, *Lonicera*, *Othocallis*, *Pinus*, *Quercus*, *Salpichroa*, *Sparaxis*, *Stenotaphrum*, *Taxodium*, and *Wisteria*. Nomenclatural and distribution updates, published elsewhere, and corrections are provided as supplementary material.

Keywords

Alien species, floristic data, Italy, nomenclature

How to contribute

The text for the new records, status changes from casual to naturalized or invasive, exclusions, and confirmations should be submitted electronically to Lorenzo Lastrucci (lorenzo.lastrucci@unifi.it). The corresponding specimen along with its scan or photograph has to be sent to FI Herbarium: Museo di Storia Naturale (Botanica), Sistema Museale di Ateneo, Via G. La Pira 4, 50121 Firenze (Italy). Those texts concerning nomenclatural novelties and typifications (only for accepted names) should be submitted electronically to Gabriele Galasso (gabriele.galasso@comune.milano.it). Each text should be within 1,000 characters (spaces included).

Floristic records

Asparagus setaceus (Kunth) Jessop (Asparagaceae)

+ (NAT) **SAR**: Pula (Cagliari), Santa Margherita, Cala Verde (WGS84: 38.939205°N, 8.935381°E), macchia mediterranea e sottobosco di pinete artificiali, 10 m, 31 October

2025, *G. Calvia, G. Bacchetta* (FI). – Status change from casual to naturalized alien for the flora of Sardegna.

In Sardegna, this species was recorded as casual alien by Podda et al. (2012). Recently, we observed its presence in several places of western and southern Sardegna, where it appears to be currently naturalized near coastal tourist sites such as Pula (Cagliari), Quartu Sant'Elena (Cagliari), and Sant'Antioco (Sulcis Iglesiente).

G. Calvia, G. Bacchetta

***Bidens pilosa* L. (Asteraceae)**

+ (INV) **SAR**: Decimomannu (Cagliari), loc. Bagantinus (WGS84: 39.300743°N, 8.970782°E), infestante le colture nei vasi, 5 m, 14 October 2020, *L. Podda, M. Fois* (CAG); Masainas (Sulcis Iglesiente), Is Solians (WGS84: 39.024285°N, 8.578381°E), incolti presso i parcheggi, 2 m, 11 October 2025, *G. Calvia, S. Macis* (*Herb. G. Calvia*); Quartu Sant'Elena (Cagliari), Poetto (WGS84: 39.223971°N, 9.197821°E), infestante prati e aiuole del lungomare, 1 m, 1 December 2025, *L. Podda, C. Sarni, G. Calvia* (CAG); Loiri Porto San Paolo (Gallura Nord-Est Sardegna), invasiva tra Via Monte Ferru e la fine di Via Donatello (WGS84: 40.872070°N, 8.620839°E), prati, macchie, cigli stradali, zone umide, 40–50 m, 16 December 2025, *G. Calvia, G. Bertotto* (*Herb. G. Calvia*); Pula (Cagliari), Eden Rock Village, Vico del Mirto (WGS84: 38.932979°N, 8.907675°E), invasiva lungo la strada e in zone umide, 87–92 m, 14 January 2026, *L. Podda, C. Sarni* (FI). – Status change from casual to invasive alien for the flora of Sardegna.

Ten years after its first report in Golfo Aranci (Gallura Nord-Est Sardegna) (Lazzeri 2016), the species has become naturalized and has spread to different parts of Sardegna. In some cases, it behaves as invasive, such as in the locality of Porto San Paolo (Gallura Nord-Est Sardegna), where two metapopulations consisting of hundreds of individuals were observed covering an area of approximately 120 m^2 each. A similar area was occupied by the species near a tourist village in the municipality of Pula (Cagliari). *Bidens pilosa* was also observed in: Sassari (Sassari), Rio Gabaru (WGS84: 40.768949°N, 8.502792°E), 12 October 2018; Lotzorai (Ogliastra), foce del Rio Pramaera (WGS84: 39.975038°N, 9.686709°E), 20 July 2020; Siniscola (Nuoro), foce del Riu su Lidone (WGS84: 40.479853°N, 9.809035°E), 12 February 2022; Cagliari (Cagliari), loc. Sa Illetta (WGS84: 39.231306°N, 9.076463°E), 10 June 2024. This therophytic species native to tropical and subtropical America spreads easily thanks to its achenes equipped with awns and hooked bristles, which facilitate dispersal by animals and humans (Shiba et al. 2024).

L. Podda, C. Sarni

***Boerhavia coccinea* Mill. (Nyctaginaceae)**

+ (INV) **SAR**: Tertenia (Ogliastra), loc. Foxi Manna (WGS84: 39.693222°N, 9.655694°E), in ex pioppeto con piano livellato in terra battuta per il parcheggio di autovetture, 2 m, 6 July 2025, *M. Piccitto* (FI). – Invasive alien species new for the flora of Sardegna.

At the site where it was discovered, individuals multiplied rapidly in just a few years. The population is expanding into neighboring areas.

M. Piccitto

***Campsis radicans* (L.) Bureau (Bignoniaceae)**

+ (NAT) **CAL**: Reggio Calabria (Reggio Calabria), incrocio con Via Cardinale Gennaro Portanova (WGS84: 38.115356°N, 15.663718°E), bordo strada e su marciapiede dissestato, 90 m, 29 August 2025, *C.M. Musarella* (FI, REGGIO); Crotone (Crotone), strada SS106 (WGS84: 39.081245°N, 17.104590°E), bordo strada, 9 m, 1 September 2025, *C.M. Musarella* (REGGIO); Reggio Calabria (Reggio Calabria), Pellaro (38.026183°N, 15.656667°E), bordo di strade adiacenti a strada ad alta intensità e suburbane, 20 m, 1 September 2025, *F. D'Aleo* (REGGIO). – Status change from casual to naturalized alien for the flora of Calabria.

Campsis radicans was first reported as a casual alien in Calabria by Galasso et al. (2020). We observed several populations consisting of distinct groups, located in numerous sites throughout the region. Each group is composed of multiple individuals with basal shoots, and other groups were flowering and fruiting at the time of collection. We have observed numerous individuals originating both from seed reproduction and vegetative propagation in well-established populations. We therefore propose its status change from casual to naturalized alien.

F. D'Aleo, C.M. Musarella

***Catharanthus roseus* (L.) G.Don (Apocynaceae)**

+ (NAT) **CAL**: Reggio Calabria (Reggio Calabria), Pellaro, Via Fiumarella (WGS84: 38.019819°N, 15.644190°E), bordo strada, 14 m, 30 August 2023, *C.M. Musarella* (REGGIO); Reggio Calabria (Reggio Calabria), Via Vito Inferiore (WGS84: 38.124590°N, 15.666327°E), bordo strada, 61 m, 6 September 2024, *C.M. Musarella* (REGGIO); Bagnara Calabra (Reggio Calabria), Via F. Turati (WGS84: 38.283224°N, 15.798687°E), bordo strada, 8 m, 9 September 2024, *C.M. Musarella* (FI, REGGIO); Melito Porto Salvo (Reggio Calabria), fraz. Annà, incrocio tra Via De Castadio e Via Nazionale (WGS84: 37.928055°N, 15.752120°E), bordo strada, 27 m, 12 October 2024, *C.M. Musarella* (REGGIO). – Status change from casual to naturalized alien for the flora of Calabria.

In Calabria, *Catharanthus roseus* was first recorded by Caruso and Pignotti (2007). Several populations or single individuals were found in several parts of the Meropolitan City of Reggio Calabria. In addition to the specimens listed above, the species was also observed by Laface in: Reggio Calabria (Reggio Calabria), Ortì (WGS84: 38.1455566°N, 15.7146066°E), 10 July 2024; Fiumara (Reggio Calabria), fraz. San Nicola (WGS84: 38.2109466°N, 15.6913975°E), 18 July 2024; Condofuri (Reggio Calabria), Contrada Lugarà (WGS84: 37.933228°N, 15.882691°E), 30 August 2024; Montebello Jonico (Reggio Calabria), Contrada Plumbacà (WGS84: 37.963800°N,

15.749416°E), 9 September 2024. The species regularly produces flowers, and it is able to sustain itself. So, according to our records, we propose to consider it as a naturalized alien for the Calabria region.

V.L.A. Laface, C. M. Musarella

***Cenchrus setaceus* (Forssk.) Morrone (Poaceae)**

+ (NAT) **LIG**: Vallecrosia al Mare (Imperia), sponda destra del Torrente Verbone, a monte del ponte della via Romana (WGS84: 43.78979568°N, 7.64292968°E), greto fluviale, 10 m, 9 December 2025, *A. Selvaggi* (FI, *Hb. A. Selvaggi*). – Naturalized alien species new for the flora of Liguria.

Cenchrus setaceus is included in the list of invasive alien species (IAS) of Union concern (Regulation [EU] No. 1143/2014), implemented in Italy by D.Lgs. No. 230/2017, which requires its eradication, where feasible, or its control throughout the entire territory of the European Union. At the site, this species occurs as a few tussocks along the margins of the riverbed on disturbed soils.

A. Selvaggi

***Cortaderia selloana* (Schult. & Schult.f.) Asch. & Graebn. (Poaceae)**

+ (NAT) **EMR**: Lesignano de' Bagni (Parma), Torrente Parma a valle di Bassa di Lesignano (WGS84: 44.655487°N, 10.292896°E), greto fluviale con giovani esemplari di *Populus nigra* subsp. *nigra*, 193 m, 3 October 2020, *M. Adorni* (FI). – Status change from casual to naturalized alien for the flora of Emilia-Romagna.

In Emilia-Romagna, this species was previously reported as a casual alien (Alessandrini et al. 2009). In 2017, a single individual was recorded along the Parma River, approximately 5 km upstream from the populations reported here (https://www.actaplantarum.org/forum/viewtopic.php?p=640248). In December 2025, in Lesignano de' Bagni, a population of 15 individuals was observed, consisting of adult plants up to 3 m tall and several seedlings. In addition, the species was also observed in: Langhirano (Parma), Torrente Parma a valle di Badia di Torrechiara (44.658874°N, 10.297931°E), 21 September 2020.

M. Adorni

***Cupressus sempervirens* L. (Cupressaceae)**

+ (NAT) **MOL**: Campobasso (Campobasso), Collina Monforte, lungo Via Matris all'interno del sito Natura 2000 ZSC IT7222125 "Rocca Monforte" (WGS84: 41.563564°N, 14.653942°E), bosco, 755 m, SW, 14 October 2022, leg. *M.C. de Francesco*, det. *M. Varricchione* (FI, IS No. IS_06316). – Naturalized alien species new for the flora of Molise.

Cupressus sempervirens was found in an area characterized by Mediterranean basic cliffs and pioneer stages of natural and semi-natural woody forests (D'Angeli et al. 2024), with the presence of typical species such as *Quercus ilex* L., *Fraxinus ornus* L.

subsp. *ornus*, and *Ulmus minor* Mill., as well as other invasive alien species such as *Ailanthus altissima* (Mill.) Swingle. The native tree vegetation is represented by isolated elements, especially on inaccessible cliffs, and many areas characterized by reforestation plants dominated by *Pinus nigra* J.F.Arnold subsp. *nigra*.

M.C. de Francesco, M. Varricchione

***Cyperus alternifolius* L. subsp. *flabelliformis* Kük. (Cyperaceae)**

+ (NAT) **LIG**: Ventimiglia (Imperia), fraz. Latte, presso la Baia dei Pescatori, canale che costeggia il sentiero che da Corso Europa discende alla baia (WGS84: 43.785210°N, 7.557975°E), sponda di canale, 17 m, 29 August 2025, *M. Lonati, G. Nota* (FI). – Status change from casual to naturalized alien for the flora of Liguria.

Five small separate clusters of *Cyperus alternifolius* subsp. *flabelliformis* were observed along a canal stretch of approximately 200 m long (roughly from 43.784949°N, 7.558275°E to 43.785470°N, 7.557940°E). These plants were probably introduced accidentally through garden waste and prunings, as a small embankment used as a disposal site for plant residues is present upstream of the described site.

M. Lonati, G. Nota

***Cyperus eragrostis* Lam. (Cyperaceae)**

+ (NAT) **LAZ**: Bracciano (Roma), Lago di Bracciano, sponda presso San Celso (WGS84: 42.097650°N, 12.195419°E), sponda lacustre, localmente abbondante, 160 m, 15 September 2025, leg. *L. Pinzani, D. Di Lernia, S. Ceschin*, det. *L. Pinzani* (FI, UTR). – Status change from casual to naturalized alien for the flora of Lazio.

In Lazio, the species was mainly recorded in the province of Latina and in some stations of the province of Rome, including Settebagni and the area of Rome city (Lucchese 2017; Roma-Marzio et al. 2025). In the Bracciano Lake basin, *C. eragrostis* was repeatedly reported as a casual alien since 2017 (Lucchese 2017; De Santis 2020; Pinzani et al. 2025a, 2025b). The population recorded at San Celso consists of numerous, well-developed individuals forming persistent stands along the lake shore. Other large populations occur at Vignarello (Viterbo, WGS84: 42.143793°N, 12.189910°E) and Vigna di Valle (Roma, WGS84: 42.082608°N, 12.229361°E). Moreover, multiple populations of this species were observed along the Tiber River, including Passo Corese in the municipality of Fara in Sabina (Rieti, WGS84: 42.154756°N, 12.636779°E) and several sites within Rome, such as Ponte Milvio (WGS84: 41.933722°N, 12.462381°E), Ponte Matteotti (WGS84: 41.913309°N, 12.470280°E), Ponte Castel Sant'Angelo (WGS84: 41.901948°N, 12.464785°E), Ponte Mazzini (WGS84: 41.897446°N, 12.465205°E), Isola Tiberina (WGS84: 41.890310°N, 12.477757°E), and Ponte Marconi (WGS84: 41.860566°N, 12.471325°E). Considering the long-term persistence of multiple populations, their local abundance and the ongoing spatial expansion in lacustrine and riparian habitats, *C. eragrostis* should be considered as naturalized in Lazio.

L. Pinzani, D. Di Lernia

***Elaeagnus umbellata* Thunb. (Elaeagnaceae)**

+ (NAT) **TOS**: Bucine (Arezzo), loc. Casina del Priore (WGS84: 43.379111°N, 11.567417°E), siepe, 2 August 2022, leg. *T. Fiaschi, S. Cannucci, R. Fedeli*, det. *T. Fiaschi, S. Cannucci* (FI). – Naturalized alien species new for the flora of Toscana.

This species was found along the edge of the dirt road, with numerous individuals ranging from fruiting adults to seedlings.

T. Fiaschi, S. Cannucci

***Eragrostis curvula* (Schrad.) Nees (Poaceae)**

+ (NAT) **UMB**: Narni (Terni), Via Ortana (strada SR204) (WGS84: 42.494242°N, 12.469019°E), on the side of the road in an industrial area, 80 m, 25 October 2025, leg. *L. Cancellieri*, det. *L. Cancellieri, D. Cos* (FI). – Naturalized alien species new for the flora of Umbria.

Multiple generations of individuals thrive along the roadside of an industrial zone. The plants reproduce autonomously, with seeds gradually colonising both sides of the thoroughfare. Dispersal is facilitated by passing vehicular traffic.

L. Cancellieri

***Hydrocotyle sibthorpioides* Lam. (Araliaceae)**

+ (NAT) **CAM**: Napoli (Napoli), cortile settentrionale di Palazzo Reale (WGS84: 40.836972°N, 14.250897°E), interstizi dei basoli di basalto, 29 m, 20 January 2026, *E. Del Guacchio, R. Vallariello* (FI, NAP barcode NAP0007833); *ibidem*, cortile di Palazzo Reale presso le Scuderie borboniche (WGS84: 40.836844°N, 14.250616°E), interstizi dei basoli di basalto, 24 m, 20 January 2026, *E. Del Guacchio, R. Vallariello* (NAP barcode NAP0007832). – Naturalized alien species new for the flora of Campania.

This species is widespread where protected from trampling; it occurs in seasonally damp and sandy interstices and, to a lesser extent, also on the mossy tuffaceous stones bordering the flowerbeds. It was first observed on 14 September 2025 (images of the population are available at https://www.inaturalist.org/observations/330769516). Also this species was probably introduced into the region as a contaminant from nurseries (Del Guacchio and La Valva 2017).

M. Riera, E. Del Guacchio

***Lantana camara* L. subsp. *aculeata* (L.) R.W.Sanders (Verbenaceae)**

+ (NAT) **SAR**: Maracalagonis (Cagliari), loc. Geremeas, vegetazione tra Rio Geremeas e villaggio turistico (WGS84: 39.167188°N, 9.385172°E), tra la macchia e l'eucalipteto, 5 m, 2 October 2025, *G. Calvia, A. Lallai, L. Podda* (*Herb. G. Calvia*); Budoni (Gallura Nord-Est Sardegna), Ludduì (WGS84: 40.735300°N, 9.690510°E), macchia mediterranea, incolti, cigli stradali, 120–180 m, 10 November 2025, *G. Calvia, G. Bertotto*

(*Herb. G. Calvia*); Loiri Porto San Paolo (Gallura Nord-Est Sardegna), presso Belvedere (WGS84: 40.872231°N, 9.616278°E), macchia mediterranea, 60–80 m, 16 December 2025, *G. Calvia, G. Bertotto* (FI, *Herb. G. Calvia*); Golfo Aranci (Gallura Nord-Est Sardegna), Terrata (WGS84: 40.977271°N, 9.578502°E), macchia mediterranea, incolti, 25–30 m, 17 January 2026, *G. Calvia, G. Bertotto* (*Herb. G. Calvia*). – Status change from casual to naturalized alien for the flora of Sardegna.

In Sardegna this subspecies was recorded as a casual alien by Brundu et al. (2003). During the last years, we are witnessing a rapid expansion of this taxon in several coastal and hilly areas, especially in between Golfo Aranci, Olbia, Porto San Paolo, San Teodoro, and Budoni. It was also observed in Orosei (Nuoro), Cala Liberotto (WGS84: 40.440994°N, 9.784025°E), 16 August 2025, but also in other eastern and southern sites, where it is now naturalized and becoming a potential future threat. In numerous other localities, sparse plants occur, mostly in roadsides, fallow land and ruderal places.

G. Bertotto, G. Calvia

***Lonicera japonica* Thunb. (Caprifoliaceae)**

+ (INV) **MOL**: Campobasso (Campobasso), a N di Campobasso (WGS84: 41.565394°N, 14.667440°E), lungo la strada in un ambiente disturbato, 683 m, N, 29 July 2025, leg. *M. Varricchione*, det. *M.C. de Francesco* (FI). – Invasive alien species new for the flora of Molise.

Several individuals were observed climbing on the fence and the sidewalk, with other ruderal or alien species.

M.C. de Francesco, M. Varricchione

***Othocallis amoena* (L.) Trávn. (Asparagaceae)**

+ (NAT) **ITA** (**TAA**): Levico Terme (Trento), area protetta Inghiaie, al margine della strada sterrata (WGS84: 45.999008°N, 11.314477°E), sottobosco umido, 440 m, NNW, 13 April 2025, *F. Valentini* (FI, SIENA). – Status change from casual to naturalized alien for the flora of Italy (Trentino-Alto Adige).

Othocallis amoena was reported as a casual alien in Trentino-Alto Adige by Wilhalm and Prosser (2009). This new population consists of three different groups located approximately 250 m apart and each of them includes tens of flowering and fruiting individuals. Thus, we propose to recognize *O. amoena* as a new naturalized species for Trentino-Alto Adige and Italy.

F. Valentini, G. Bonari

***Pinus wallichiana* A.B.Jacks. (Pinaceae)**

+ (NAT) **ITA** (**PIE**): Sostegno (Biella), sentiero che da Sostegno conduce all'Oratorio di Sant'Emiliano (WGS84: 45.6568°N, 8.2741°E), bosco misto di latifoglie e conifere, 460 m, 31 August 2025, *E. Bonivento* (FI). – Status change from casual to naturalized alien for the flora of Italy (Piemonte).

In Piemonte *Pinus wallichiana* was recorded as a casual alien by Pividori (1991) and Mondino (1994). Two wooded areas of interest are observed, adjacent to each other, covering a total area of approximately 1000 m^2. The first area consists of a mature coniferous reforestation site dominated by *P. wallichiana* and *P. strobus* L., with sporadic other conifers. The second one is characterized by a downy oak forest (*Quercus pubescens* Willd. subsp. *pubescens*) community with underlying *P. wallichiana* regeneration. Across the entire area, beneath the dominant canopy cover, approximately ten specimens of *P. wallichiana* were recorded, with diameter at breast height (DBH) ranging between 10 and 15 cm and heights up to 10 m. Several specimens have reached reproductive maturity. The understory is further characterized by the presence of numerous seedlings and saplings.

E. Bonivento

***Quercus rubra* L. (Fagaceae)**

+ (NAT) **MOL**: Capracotta (Isernia), lungo la strada SP84 (WGS84: 41.842159°N, 14.265762°E), radura, 1240 m, 9 August 2025, *R. Di Pietro, P. Fortini* (FI, IS). – Naturalized alien species new for the flora of Molise.

We found a mature and fruiting tree of *Quercus rubra* with a circumference of 1 m and a height of 12 m, together with various young individuals approximately 4–5 m tall with a circumference of 15 cm. They were found in a state-owned area characterized by an open *Quercus cerris* L. and *Fagus sylvatica* L. wood with *Acer campestre* L., *Pyrus communis* L. subsp. *pyraster* (L.) Ehrh., *Malus sylvestris* (L.) Mill., and *Euonymus europaeus* L in the scrub layer.

R. Di Pietro, P. Fortini

***Salpichroa origanifolia* (Lam.) Baill. (Solanaceae)**

+ (NAT) **BAS**: Rionero in Vulture (Potenza), fraz. Monticchio Bagni (WGS84: 40.951068°N, 15.569720°E), bordo strada, 477 m, 15 June 2025, *G. Salerno, L. Rosati* (FI). – Naturalized alien species new for the flora of Basilicata.

Within the small village of Monticchio Bagni, we observed along the roads several, dense, monophytic populations of this south American species, probably deriving from individuals cultivated, not far away, for ornamental purposes.

G. Salerno, L. Rosati

***Sparaxis bulbifera* (L.) Ker Gawl. (Iridaceae)**

+ (NAT) **SAR**: Ussaramanna (Medio Campidano), nella zona artigianale e nelle aiuole della strada SP46 (WGS84: 39.696318°N, 8.909660°E), zona artigianale e aiuole stradali, 150 m, 8 April 2024, *M. Fois, A. Cuena* (FI, CAG); Olbia (Gallura Nord-Est Sardegna), Sole Ruiu (WGS84: 40.976425°N, 9.418167°E), prati presso la strada, 95 m, 31 March 2025, leg. *G. Bertotto*, det. *G. Calvia* (*Herb. G. Calvia*); Orosei (Nuoro), Cala Liberotto (WGS84: 40.433994°N, 9.777708°E), radure di pinete artificiali, cigli stradali, 7–20 m, 14 March

2026, *G. Calvia, S. Macis* (*Herb. G. Calvia*); La Maddalena (Gallura Nord-Est Sardegna), Bassa Trinità (WGS84: 41.246078°N, 9.405912°E), cigli stradali, 6 m, 22 March 2026, *G. Calvia* (*Herb. G. Calvia*). – Naturalized alien species new for the flora of Sardegna.

This species was probably planted along the flowerbeds in the centre of Ussaramanna (road SP46), but it was also found growing wild along roadsides on the outskirts of the same town, Olbia, and other localities.

M. Fois, A. Cuena-Lombraña

***Stenotaphrum secundatum* (Walter) Kuntze (Poaceae)**

+ (NAT) **SAR**: Portoscuso (Sulcis Iglesiente), Viale Nettuno (WGS84: 39.211555°N, 8.374445°E), cigli stradali, 21 m, 2 September 2025, *G. Calvia* (*Herb. G. Calvia*); Maracalagonis (Cagliari), Geremeas, Cala Serena (WGS84: 39.167536°N, 9.385266°E), prati e sottobosco di eucalipteti, 9 m, 2 October 2025, *G. Calvia, A. Lallai, L. Podda* (FI); Villasimius (Cagliari), Is Traias (WGS84: 39.167536°N, 9.385266°E), prati e margini dei sentieri nel retroduna, 1–2 m, 2 November 2025, *G. Calvia, S. Macis* (*Herb. G. Calvia*); Muravera (Cagliari), Costa Rei (WGS84: 39.263008°N, 9.579168°E), margini dello stagno retrodunale, 2–3 m, 24 January 2026, *A. Lallai, L. Podda* (CAG). – Status change from casual to naturalized alien for the flora of Sardegna.

This species was first recorded in Sardegna by Podda et al. (2012), where it was introduced for greenery, especially in southern Sardegna, in lawns of tourist settlements. Its naturalization has been recorded in several sites of South Sardegna, such as Portoscuso (Sulcis Iglesiente), Maracalagonis and Villasimius (Cagliari).

G. Calvia, A. Lallai

***Taxodium distichum* (L.) Rich. (Cupressaceae)**

+ (NAT) **TOS**: Viareggio (Lucca), Parco Naturale Regionale Migliarino, San Rossore, Massaciuccoli, Macchia Lucchese e Tenuta Borbone (WGS84: 43.841725°N, 10.255319°E), lama retrodunale periodicamente inondata, 3 m, 11 July 2025, *D. Fontana, G. Grasseschi* (FI); Vecchiano (Pisa), Parco Naturale Regionale Migliarino, San Rossore, Massaciuccoli, Tenuta Migliarino, Riserva Naturale del Fiumaccio (WGS84: 43.7713°N, 10.3079°E), habitat periodicamente inondati, 4 m, 16 July 2025, *G. Antonelli, M. D'Antraccoli* (FI). – Naturalized alien species new for the flora of Toscana.

Both populations exhibit a heterogeneous age structure, including juvenile and reproductive individuals. The Viareggio population is restricted to a few dozen specimens, whereas the Vecchiano population is larger and forms coenoses in seasonally flooded habitats, where this species becomes locally dominant.

D. Fontana, G. Grasseschi

***Wisteria sinensis* (Sims) DC. (Fabaceae)**

+ (NAT) **CAL**: Reggio Calabria (Reggio Calabria), Via Cardinale Gennaro Portanova (WGS84: 38.115346°N, 15.664313°E), bordo strada e su marciapiede dissestato, 92 m, 29 August

2025, *C.M. Musarella* (FI, REGGIO); *ibidem*, loc. Vallone Perara (WGS84: 38.044492°N, 15.658200°E), bordo strada adiacente ad aree agricole e suburbane, 20 m, 1 September 2025, *F. D'Aleo* (REGGIO). – Status change from casual to naturalized alien for the flora of Calabria.

Wisteria sinensis was first reported as a casual alien to Calabria by Rosati et al. (2020). We observed several populations consisting of distinct groups, located in numerous sites of the municipality of Reggio Calabria, including Pellaro (WGS84: 38.018111°N, 15.644299°E), 31 August 2025. Each group is composed of multiple individuals with basal shoots, and two groups were fruiting at the time of collection. We have observed numerous individuals originating from vegetative propagation and some from seed reproduction, living in well-established populations. We therefore propose its status change from casual to naturalized alien.

F. D'Aleo, C.M. Musarella

Nomenclatural and distribution updates from other literature sources

Nomenclatural, status, and distribution updates according to Anonymous (1863), Raimondo et al. (2005), Giardina et al. (2007), Van De Beek (2014, 2016), Bonali and D'Auria (2017), Galasso et al. (2018), Verloove (2023), Hanes et al. (2024), Masters et al. (2024), Ardenghi (2025a, 2025b), Bovio et al. (2025), Camuffo et al. (2025), Colli-Silva et al. (2025), Fraser-Jenkins et al. (2025), Gariboldi (2025), Hanes and Barrett (2025), Iamonico and Crosato (2025, 2026), Idrees et al. (2025), Marchetti (2025), Menini (2025), Perlotti (2025), Prosser et al. (2025), Turland et al. (2025), Wilhalm and Spögler (2025), Alessandrini et al. (2026), Applequist (2026), Buono et al. (2026), Fu et al. (2026), Giupponi et al. (2026), Kadereit and Schneeweiss (2026), Longo et al. (2026a, 2026b), Mashau et al. (2026), Nicolella et al. (2026), POWO (2026a [onwards], 2026b [onwards], 2026c [onwards]), Roma-Marzio et al. (2026), Tomasello et al. (2026), Xiang et al. (2026), Zepigi et al. (2026), and corrections to Galasso et al. (2024), available at the Portal to the Flora of Italy (2026), are provided in Suppl. material 1.

G. Galasso, F. Bartolucci

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Supplementary material 1

Supplementary data

Authors: Gabriele Galasso, Fabrizio Bartolucci

Data type: pdf

Explanation note: 1. Nomenclatural updates; 2. Note updates; 3. Distribution updates; 4. Synonyms, misapplied or included names.

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