

Labiatae

Ajuga genevensis L. — meadows and scrub - NC.

Ajuga pyramidalis L. — arid meadows, Majella, Scrimacavallo (Mauri & al. 1830), M. ti della Laga at Bosco Martese [Zodda 1953 as "*A. genevensis* var. *pyramidalis* (L.)"].

Ajuga reptans L. — woods, glades - C - The reports of "*A. pyramidalis*" from Majella (Tenore 1831-42) are to be referred to this taxon (Tenore & Gussone 1842 as "*A. barrelieri*").

Ajuga tenorei C. Presl. — Endem. C. S. Ap.-Si-stony pastures and *Nardus* grassland - NC.

Ajuga iva (L.) Schreb. — Majella (Tenore 1831-42 as "var. *moschata*"), near Lentella! (Conti & al. in press).

Ajuga chamaepitys (L.) Schreb. subsp. *chamaepitys* — uncultivated land, arid meadows - C.

Ajuga chamaepitys subsp. *chia* (Schreb.) Arcang. — uncultivated land, arid meadows, Colle Bringione, M. dei Fiori (Mauri & al. 1830), Pineta d'Avalos (Tammaro & Pirone 1981).

Teucrium scorodonia L. subsp. *scorodonia* — woods, Fano a Corno (Tenore, 1831-42), Sirente (Groves 1880), Valle Subequana (Chicchiriccó & al. 1980).

Teucrium siculum (Raf.) Guss. — Endem. It. - woods - NC.

Teucrium scordium L. subsp. *scordium* — humid meadows, marshes, surroundings of Scanno (Gravina 1812 as "*T. scordium*"), Pescocostanzo, Rivisondoli (Gussone 1826, Tenore 1831-42, Bertoloni 1833-54 from Gussone as "*T. scordium* L."), Caramanico (Parlatore 1848-96 as "*T. scordium* L."), Bucchianico (Villani 1921 as "*T. scordium* L."), Gole di Celano (from a specimen collected by Anzalone in FI!), Piano di Ovindoli!

Teucrium scordium subsp. *scordioides* (Schreb.) Arcang. — humid meadows, marshes, Pescara (Rigo 1877) but now disappeared (Tammaro & Pirone 1979), Sirente, Gole di Celano (Groves 1880 as "*T. scordioides* Sch.", Guarrera & Tammaro 1994), Teramo and Silvi [Zodda 1967 as "*T. scordium* var. *scordioides* (Schreb.)"]. According to the specimens in FI!, it also occurs at Morrone near Salle, Caramanico, Pescara, Lago Molina, Guado di S. Antonio near Caramanico. In 1997 it was found in Pineta d'Avalos! near Pescara where it has therefore been confirmed.

Teucrium botrys L. — uncultivated land, along the roads - NC.

Teucrium chamaedrys L. subsp. *chamaedrys* — arid pastures, glades - CC.

Teucrium flavum L. subsp. *flavum* — thermophilous stony slopes - C.

Teucrium marum L. — Near endem. - Gran Sasso, according to Petrilli and Quartapelle (Crugnola 1900, Zodda 1967). According to Pignatti (1982), the species was once cultivated and is now naturalized in many localities on the peninsula, but has now disappeared almost everywhere.

Teucrium montanum L. — stony slopes, stony pastures - C - Also var. *hirsutum* Boiss. has been reported.

Teucrium capitatum L. subsp. *capitatum* — arid and stony meadows - C.

Scutellaria alpina L. — stony slopes at high altitudes, Gran Sasso (Matteucci & Martelli 1894, Furrer & Furnari 1960, Bazzichelli 1960, Zodda 1953), Majella! (Abbate 1903, Villani 1921, Conti 1987), Velino! (Parlatore 1848-96 from specimens collected by Rolli, Fiori 1923-29, Lucchese & Lattanzi 1991), Civitella Roveto (Veri 1988), M. Meta! (Conti 1992c), Serra Rocca Chiarano! (Conti 1995), M. Viglio!

Scutellaria columnae All. subsp. *columnae* — scrub, mixed woods - C.

Scutellaria columnae subsp. *gussonei* (Ten.) Arcang. — Velino (Petriccione 1993).

Scutellaria altissima L. — woods, Parco Nazionale d'Abruzzo! [Anzalone & Bazzichelli 1960 as "*S. peregrina* L. var. *altissima* (L.)"], Gran Sasso! [Zodda 1967 as "*S. peregrina* var. *altissima* (L.)"] and Majella (Tammaro 1986a).

Scutellaria galericulata L. — humid meadows, Pescocostanzo, Rivisondoli (Gussone 1826, Tenore 1831-42, Bertoloni 1833-54), La Brionna (Tammaro 1984b), Quarto di S. Chiara! (Conti & Pellegrini 1988), Fosso la Vera di Primo Campo (Pirone 1997b).

Scutellaria hastifolia L. — humid meadows, Pizzoli (Tenore 1831-42, Grande 1913). To be confirmed.

Marrubium incanum Desr. — pastures, uncultivated areas - NC.

Marrubium peregrinum L. — S. E. Europ.(Pontica) — Adv. casual.

Marrubium vulgare L. — ruderal environments, uncultivated land - C.

Sideritis italica (Mill.) Greuter & Burdet (*S. sicula* Ucria) — Endem. C. S. Ap.-Si - arid and stony pastures - C.

Sideritis montana L. subsp. *montana* — arid meadows - NC.

Sideritis romana L. subsp. *romana* — arid meadows - NC.

Melittis melissophyllum L. subsp. *melissophyllum* — woods and margins - C.

Melittis melissophyllum subsp. *albida* (Guss.) P. W. Ball (*M. albida* Guss.) — *Fagus*

sylvatica woods - NC.

***Phlomis herba-venti* L.** — arid pastures, Pizzoli (Bertoloni 1833-54), Morrone, Sulmona, Sirente near Loggiano, L'Aquila, Piano di Navelli, Fucino near Luco (Mauri & al. 1830, Tenore 1831-42, Parlato 1848-96, Guarrera & Tammaro 1994 from specimens collected by Groves and Vaccari, Tammaro & al. 1995), Parco Nazionale d'Abruzzo! (Rovesti & Rovesti 1934), Valle del Vomano (Zodda 1953 from Crugnola), Campo Felice (Lucchese & Lattanzi 1991).

***Phlomis pungens* Willd.** — arid pastures, garigue, Castelvechio Subequo, Piano di Navelli (Pignatti 1982, Tammaro 1995), Marsica in the localities with *Phlomis fruticosa* (Pirone 1995c as "*P. herba-venti* subsp. *pungens*"). The real differences of this species with regard to the previous one is to be checked.

***Phlomis fruticosa* L.** — arid pastures, garigue, M. Salviano near Avezzano! (Mauri & al. 1830, Tenore 1831-42, Anzalone 1960), Parco Nazionale d'Abruzzo (Rovesti & Rovesti 1934), near Pescara! and Cocullo (Tammaro 1985b, Conti 1995, Pirone 1995c, 1996).

***Galeopsis ladanum* L.** — stony areas, stony pastures, surroundings of Scanno (Gravina 1812), Avezzano, Chiarino, Pizzo di Sevo (Gussone 1826, Mauri & al. 1830, Tenore 1831-42), Teramo province (Abbate 1903), common in Chieti province (Villani 1921), Parco Nazionale d'Abruzzo [Tenore 1831-42, Tenore & Gussone 1842, Grande 1904, Anzalone and Bazzichelli 1959-60 as "*G. ladanum* L. *intermedia* (Vill.)"], Gole di Popoli (Tammaro 1971a), Majella (Tammaro 1986a), Simbruini (Veri 1988), Conca Aquilana (Console & Frattaroli 1989), Ovindoli (Guarrera & Tammaro 1994), Conca di Capestrano (Tammaro 1995).

Galeopsis angustifolia* Hoffm. subsp. *angustifolia — stony areas, arid uncultivated land - C.

***Galeopsis speciosa* Mill.** — wood glades, hedges, Bosco Martese, Pietracamela, Rocchetta between Fano Adriano and Nerito, Pietralta di Valle Castellana [Zodda 1953, 1964, 1967 as "*G. tetrahit* var. *speciosa* (Miller)"].

***Galeopsis pubescens* Bess.** — Majella at Fonte Carlese (Tenore & Gussone 1842). Not found recently and to be confirmed.

***Galeopsis tetrahit* L.** — fields, screes - C.

***Lamium garganicum* L. subsp. *garganicum* (L. *garganicum* subsp. *laevigatum* Arcang.)** — cliffs, open woods, screes - C.

***Lamium garganicum* subsp. *striatum* (Sm.) Hayek var. *striatum* [L. *garganicum* subsp. *gracile* (Briq.) Greuter & Burdet]** — cliffs, screes, Velino (Montelucci 1958), Parco Nazionale d'Abruzzo at M. Meta (Tenore 1831-42 as "*L. grandiflorum rotundifolium* Ten., Bruno & Bazzichelli 1966 as "*L. garganicum* var. *veronicaefolium* Bentham", Bazzichelli & Furnari 1970 as "*L. veronicaefolium* Bentham"), Gran Sasso, S. Croce di Crognaleto [Zodda 1953 as "*L. garganicum* var.

veronicaefolium (Benth)”, Dinter 1996, 1997 as “*L. veronicaefolium* Bentham”) and Majella (Tammaro 1986a).

Lamium pubescens Benth — this taxon is of doubtful taxonomic status (Greuter & al. 1984-89).

Lamium maculatum L. — scrub, hedges, uncultivated land - CC.

Lamium album L. subsp. *album* — uncultivated land, nitrified environments - NC.

Lamium bifidum Cyr. subsp. *bifidum* — humid woods, uncultivated land - NC.

Lamium bifidum subsp. *balcanicum* Velen. — degraded stony pastures, M. dei Fiori (Brilli-Cattarini & Gubellini 1987b).

Lamium purpureum L. var. *purpureum* — fields, ruderal environments - CC.

Lamium amplexicaule L. var. *amplexicaule* — fields, ruderal environments - CC.

Lamium flexuosum Ten. — stony areas, open woods, surroundings of Scanno (Gravina 1812), Majella (Cesati 1873, Feoli-Chiapella 1979-80), Morrone (Cesati 1873) Teramo province, but exact locality not indicated (Zodda 1945 from a specimen collected by Quartapelle) and Bosco Martese at Ceppo [Zodda 1953 as “*L. flexuosum* Ten. var. *pubescens* (Sibth.)”].

Lamium galeobdolon (L.) L. subsp. *galeobdolon* — Camosciara!, Valle dell’Inferno!, Gole di Barrea! (Conti & Minutillo 1996).

Lamium galeobdolon (L.) L. subsp. *montanum* (Pers.) Hayek [*Lamiastrum galeobdolon* (L.) Ehrend. & Polatschek subsp. *montanum* (Pers.) Ehrend. & Polatschek] — *Fagus sylvatica* woods, Majella (Feoli & Feoli-Chiapella 1974). Probably it is worthy mentioning the reports as “*L. galeobdolon* var. *apenninum* Bég.” from the Teramo province (Zodda 1967).

Leonurus cardiaca L. — Pietralta di Valle Castellana and Pizzoli (Mauri & al. 1830, Tenore 1831-42, Zodda 1953 from Orsini) and Gole di Popoli (Tammaro 1971a).

Ballota pseudodictamnus (L.) Benth. — E-Medit.(Steno-) - naturalized, Majella at Caramanico as “*Marrubium pseudodictamnus*” (Mauri & al. 1830, Tenore 1831-42). According to Grande (1924a) it is probably cultivated. Not found recently and to be confirmed.

Ballota hispanica (L.) Benth. [*B. rupestris* (Biv.) Vis.] — Gole di Popoli (Bertoloni 1833-54 from Orsini, Moggi 1955). Not found recently and to be confirmed.

Ballota nigra L. subsp. *meridionalis* (Béguinot) Béguinot in Fiori & Béguinot [*B. nigra* subsp. *foetida* (Vis.) Hayek] — ruderal environments - C.

Ballota nigra subsp. *velutina* (Pospichal) Patzak — Illyrian - Teramo [Zodda 1953 as "*B. nigra* var. *velutina* (Posp.)"]. According to Pignatti (1982) it is to be searched in Italy.

Stachys alopecuroides (L.) Benth. (s.l.) — stony montane pastures. "Subsp. *divulsa* (Ten.) Grande" is of undoubted taxonomic value (Greuter & al. 1984-89).

Stachys pradica (Zanted.) Greuter & Pignatti — Velino (Martelli 1904 as "*Betonica hirsuta*"), Forca di Valle (Bertoloni 1833-54 from Orsini, Crugnola 1894 as "*Betonica hirsuta*", Zodda 1967 as "*St. densiflora* Benth."), M. Meta (Terracciano 1872 as "*Betonica hirsuta* L."). Doubtful occurrence, to be confirmed.

Stachys officinalis (L.) Trevis. subsp. *officinalis* — pastures, open woods - C.

Stachys germanica L. subsp. *germanica* — arid pastures - C.

Stachys germanica L. subsp. *heldreichii* (Boiss.) Hayek — Porrara (Tammaro 1986a). Not reported from Italy (Falciani & al. 1995, Falciani 1997), to be checked.

Stachys tymphaea Hausskn. — arid pastures - C - *St. alpina* L. subsp. *alpina* is reported from many localities. According to Grande (1913, 1925) it has been reported for confusion with *St. tymphaea* (sub "*St. reinertii* Heldr.") and it is to be excluded from *Flora Napoletana* and its southernmost limit is in the Umbro-Marchigiano Apennines (Pignatti 1982 from Brillì-Cattarini, Falciani 1997).

Stachys heraclea All. — pastures, Abruzzo Mts and Majella (Bertoloni 1833-54), M. Tre Croci, Pietracamela and Corno Piccolo (Zodda 1961a), Canistro (Veri 1988), M. Puzzillo (Lucchese & Lattanzi 1991), Sirente, Morrone above Salle and in the surroundings, Villa Bozza near Castilente (Teramo) (Falciani & al. 1995, Falciani 1997).

Stachys cretica L. subsp. *salviifolia* (Ten.) Rech. f. [*St. salviifolia* Ten.; *St. germanica* subsp. *salviifolia* (Ten.) Gams] — arid pastures - C.

Stachys thirkey Koch — arid pastures on clayey and stony soils, near Lama dei Peligni!, territory of Gessopalena!, Montenerodomo! (Conti & Manzi 1997c). In Italy it was previously known only in a very restricted area of Emilia where, according to Falciani (1997), it could have been introduced for confusion with *St. byzantina*. The finding in Abruzzo re-evaluates its nativeness in Italy.

Stachys sylvatica L. — woods, cool glades - C.

Stachys palustris L. — riversides, marshy environments - NC.

Stachys recta L. subsp. *recta* — thermophilous, arid and stony pastures - C.

Stachys recta subsp. *subcrenata* (Vis.) Briq. — montane stony slopes, Majella (Feoli-Chiapella 1979-80, Tammaro 1986a), Sirente (Guarrera & Tammaro 1994).

Stachys recta subsp. *grandiflora* (Caruel) Arcang. [*St. recta* subsp. *labiosa* (Bertol.) Briq.; *St. recta* L. subsp. *hirta* (Ten.) Briq.] — The occurrence of this species in Abruzzo is to be confirmed, according to Chrtek (1992) it occurs only in the N. Italian regions. Recently reported from S. Gran Sasso (Tammaro 1995) and Velino (Petriccione 1993).

Stachys maritima Gouan — sandy coastal habitats, “Arene marittime da Tortoreto a Pineto e a Colleranesco” (Zodda 1953, 1967), Pescara (Mauri & al. 1830, Tenore 1831-42, Bertoloni 1833-54, Cesati 1873, Montelucci 1970) where it has now disappeared (Tammaro & Pirone 1979), Torino di Sangro Marina and confirmed for Martinsicuro (Pirone in press).

Stachys ocymastrum (L.) Briq. (*St. hirta* L.) — arid pastures, uncultivated areas - C.

Stachys annua (L.) L. subsp. *annua* — fields, Abbateggio (Mauri & al. 1830), Abruzzo (Tenore 1831-42), Pescara, Caramanico (Cesati 1873, Parlatore 1848-96), Sirente (Groves 1880), Bucchianico (Villani 1921), Villavallelonga, from Valico di Pantano to Scanno (Vaccari & Wilczek 1940, Anzalone & Bazzichelli 1960 mention Grande), Gran Sasso (Lusina 1949, Barbagallo & Guglielmo 1975a), Penne, Teramo province (Abbate 1903, Zodda 1953, 1957, 1962a, 1967), Majella (Tammaro 1986a), Fucino (Tammaro 1985c) and near Archi!

Stachys arvensis (L.) L. — surroundings of Scanno (Gravina 1812), Castrovalva! (Conti & Minutillo 1996).

Nepeta cataria L. — ruderal environments - NC.

Nepeta nepetella L. subsp. *nepetella* — M. Corno, M. Costone (Tenore 1831-42 as “*N. graveolens*”, Bertoloni 1833-54, Crugnola 1894). Not found recently and to be confirmed.

Nepeta nuda L. subsp. *nuda* — margins of woods, pastures, Pizzoli (sub “*N. violacea*”), Pietracamela (Mauri & al. 1830), M. Corno (Tenore 1831-42, Bertoloni 1833-54 from Orsini), Valico di Forchetta (Tammaro 1986a), Sirente (Guarrera & Tammaro 1994), Velino (Lucchese & Lattanzi 1991), Altipiani maggiori at Bosco di S. Antonio (Pirone 1997b, pers. comm.), Valle di Chiarano! (Conti & Minutillo 1996), Voltigno!, Bocca Mezzana near Anversa!

Glechoma hederacea L. — humid woods - NC.

Glechoma hirsuta Waldst. & Kit. — Abruzzo (Pignatti 1982), Balsorano (Veri 1988), Gole di Barrea!

Prunella laciniata (L.) L. — arid pastures - C.

Prunella vulgaris L. subsp. *vulgaris* — open woods, cool meadows - CC.

Melissa officinalis L. subsp. *officinalis* — ruderal environments, hedges - NC.

Melissa officinalis subsp. *altissima* (Sm.) Arcang. (*M. romana* Mill.) — hedges - NC.

Ziziphora capitata L. — S. E. Europ.-W. Asiat.(Subpontic) — naturalized, between S. Valentino and S. Tommaso (Cesati 1873, Parlato 1848-96 as “*Ziziforum capitatum*”), Teramo at S. Venanzio (Zodda 1953), Caramanico, Rosciano (Viegi & al. 1990 from specimens dating back to the last century or the beginning of this century).

Satureja montana L. subsp. *montana* — thermophilous stony slopes - CC - The mean length of the calyx in the population of Abruzzo is 3.8 mm (among the lower values in Italy), probably because of the introgression with the Illyrian populations of the subsp. *variegata*, happened in the late Quaternary. The two taxa would have met mostly at low altitude (Feoli & Poldini 1979).

Satureja subspicata Vis. [*S. montana* L. subsp. *illyrica* (Host) Nyman] — Majella at Grotta delle Vacche near Lama dei Peligni [Tenore 1832 as “*S. montana* var. *hissopifolia*”, Grande 1913 as “*S. montana* L. var. *subspicata* (Bartling ex Vis.)”]. The species was not found again (Tammaro 1986a) and it is to be confirmed.

Satureja hortensis L. — uncultivated land - NC.

Satureja juliana L. [*Micromeria juliana* (L.) Rechb.] — arid pastures, cliffs - C.

Satureja graeca L. subsp. *graeca* [*Micromeria graeca* (L.) Rechb.] — stony slopes - NC.

Satureja graeca subsp. *tenuifolia* (Ten.) Arcang. [*M. graeca* subsp. *tenuifolia* (Ten.) Nyman] — arid and stony pastures, cliffs. This taxon is of doubtful taxonomic status (Greuter & al. 1984-89).

Satureja graeca subsp. *cosentina* (Ten.) Arcang. [*M. consentina* (Ten.) N. Terracc.] — Endem. S. Ap. - reported probably erroneously from Civitella del Tronto and Pietracamela [Zodda 1953 as “*S. graeca* var. *consentina* (Ten.)”] because, according to Pignatti (1982), the species grows on siliceous rocks and lava.

Satureja grandiflora (L.) Scheele [*Calamintha grandiflora* (L.) Moench] — woods - NC.

Satureja menthifolia (Host) Fritsch (*C. sylvatica* Bromf.) — open woods, hedges - C.

Satureja nepeta (L.) Scheele [*C. nepeta* (L.) Savi subsp. *nepeta*] — arid meadows, ruderal environments - CC.

Satureja calamintha (L.) Scheele [*C. nepeta* subsp. *glandulosa* (Req.) P. W. Ball] — arid meadows, coast of Pescara (Tammaro & Pirone 1979), Ernici and Simbruini (Veri 1988).

Satureja alpina (L.) Scheele subsp. *alpina* [*Acinos alpinus* (L.) Moench] — stony pastures - CC.

Satureja alpina (L.) Scheele subsp. *meridionalis* (Nyman) Greuter & Burdet [*Acinos granatensis* (Boiss. & Reuter) Pereda] — arid and stony pastures, Piano Aremogna near Lago di Castello! (Conti & Minutillo 1996). In Abruzzo previously reported from Gran Sasso [Tammaro 1992 as "*Acinos alpinus* (L.) Moench subsp. *meridionalis* (Nyman) P. W. Ball"] and Sirente (Guarrera & Tammaro 1994), but it is to be verified because it could be confused with *Satureja alpina* subsp. *alpina*, usually the most spread in Abruzzo and not reported from Gran Sasso and Sirente.

Satureja suaveolens (Sm.) Watzl.-Zeman [*A. suaveolens* (Sm.) Loudon] — arid meadows. Doubtfully reported from Simbruini (Pignatti 1982), Velino in Valle Pioppi (Lucchese & Lattanzi 1991).

Satureja acinos (L.) Scheele [*A. arvensis* (Lam.) Dandy] — arid pastures - C.

Satureja graveolens (M. Bieb.) Caruel [*Calamintha graveolens* (M. Bieb.) Benth.] — arid pastures, M. Corno (Gussone 1826 as "*Nepeta graveolens*", Tenore 1831-42 as "*Thymus graveolens*"), near L'Aquila [Tenore 1831-42 as "*Th. pallescens* Ten.", Lusina 1952 as "*S. acinos* Scheele var. *rotundifolia* (Pers.) Briq."], between Assergi and Aragno, Camarda, between Pettorano sul Gizio and Valle Vozz (Mauri & al. 1830 as "*Thymus graveolens*", Bertoloni 1833-54 as "*Th. graveolens* Marsch. ab Biebst.", Parlatore 1848-96 from Mauri, Orsini, Tenore and Levier), S. Valentino (Cesati 1873 as "*Thymus rotundifolius*"), Villavallelonga (Grande 1904 as "*Calamintha graveolens* Benth."), Collelongo, L'Aquila [Grande 1912 as "*Satureja exigua* (Sibth & Sm.) Grande"], Crognaleto, Teramo [Zodda 1953, 1957 as "*Satureja acinos* Scheele var. *rotundifolia* (Briq.)"], Gran Sasso (Macchia Grande) (Barbagallo & Guglielmo 1975a as "*A. cfr. rotundifolius*"), Villavallelonga, Sulmona and Conca Aquilana (Tammaro 1987b).

Satureja vulgaris (L.) Fritsch subsp. *vulgaris* (*Clinopodium vulgare* L. subsp. *vulgare*) — open woods - C.

Satureja vulgaris subsp. *orientalis* (Bothmer) Greuter & Burdet — reported generally from C. Italy (Bothmer 1967); its distribution in the region is to be investigated.

Hyssopus officinalis L. subsp. *pilifer* (Pant.) Murb. [*H. officinalis* L. subsp. *aristatus* (Godr.) Briq.] — arid and stony pastures - NC.

Origanum vulgare L. subsp. *vulgare* — open woods, scrub - C.

Origanum majorana L. — naturalized.

Coridothymus capitatus (L.) Rchb. f. [*Thymus capitatus* (L.) Hoffmanns. & Link] — garigue, arid meadows, Montorio al Vomano, Pietracamela (Zodda 1953 from Crugnola).

Thymus vulgaris L. subsp. *vulgaris* — garigue, arid meadows, Notaresco and Gran Sasso at Forca di Valle and Ornano (Abbate 1903, Zodda 1967).

Thymus striatus Vahl — arid and stony pastures - C.

Thymus spinulosus Ten. — Endem. C. S. Ap. - arid and stony pastures: "In Aprutii montibus" (Mauri & al. 1830 as "*Th. acicularis*"), M. dei Fiori [Zodda 1953 from Orsini and Crugnola as "*Th. striatus* var. *spinulosus* (Ten.)" and as "*var. acicularis* (W. & K.)"].

Thymus rudis Kerner — L'Aquila province (Fascetti & Veri 1983, Veri 1983). Doubtful taxon needing further systematic investigation.

Thymus oenipontanus H. Braun — arid and stony pastures, Gran Sasso [Lusina 1949 as "*T. serpyllum* L. var. *angustifolius* (Pers.)"], Parco Nazionale d'Abruzzo [Anzalone & Bazzichelli 1960 as "*T. serpyllum* L. var. *angustifolius* (Pers.)"] and Majella (Pignatti 1982).

Thymus thracicus Velen. [*Th. longidens* (Velen.) Velen.] — arid meadows, between Palena and Lettopalena (Tammaro 1986a).

Thymus praecox Opiz (s.l.) — Parco Nazionale d'Abruzzo at Rifugio della Difesa and Bisegna, Teramo province as "*T. serpyllum* var. *praecox* (Opiz)" (Anzalone & Bazzichelli 1960, Zodda 1953, 1967). Pignatti (1982) reports the species only from Trentino and Val d'Aosta.

Thymus praecox Opiz subsp. *polytrichus* (Borbás) Jalas (*Th. kernerii* Borbás) — arid pastures - NC.

Thymus longicaulis C. Presl. subsp. *longicaulis* — arid and stony pastures, Parco Nazionale d'Abruzzo [Anzalone & Bazzichelli 1960 as "*Th. serpyllum* var. *longicaulis* (Presl)"], Gorzano, Pietracamela [Zodda 1953, 1967 as "*Th. serpyllum* var. *longicaulis* (Presl)"], Passo Lanciano, Farindola, Valle del Trigno near Castiglione-Ripa dei Gatti (Hruska-Dell'Uomo 1980), Velino (Lucchese & Lattanzi 1991, Petriccione 1993), Sirente (Guarrera & Tammaro 1994), Gran Sasso (Tammaro 1995). "Var. *subisophyllus* (Borbás) Jalas" has been reported as well.

Thymus pulegioides L. subsp. *pulegioides* — arid and stony pastures - C.

Thymus pulegioides subsp. *carniolicus* (Borbás) P. Schmidt (*Th. pannonicus* All.) — M. dei Fiori at Cirella (Bertoloni 1833-54), Roio and Gran Sasso (Lusina 1949 as "*Th. serpyllum* var. *pannonicus*", Fascetti & Veri 1983), Marsica in the localities with *Phlomis fruticosa* (Pirone 1995c). This taxon is of doubtful taxonomic status (Greuter & al. 1984-89).

Thymus pulegioides subsp. *chamaedrys* (Fr.) Gusuleac — Teramo province [Bertoloni 1833-54, Zodda 1967 as "*Th. serpyllum* var. *chamaedrys* (Fr.)" and as "*var. ovatus* (Mill.)"]. This taxon is of doubtful taxonomic status (Greuter & al. 1984-89).

Lycopus europaeus L. — ditches, riversides, humid meadows, "*var. pubescens* Benth." has been reported as well.

Mentha pulegium L. subsp. *pulegium* — clayey and humid fields, riversides - C.

Mentha cervina L. — naturalized, humid fields, Piano delle Cinquemiglia and Rivisondoli [Tenore 1831-42, Grande 1913 as "*Preslia cervina* (L.) Fresen."].

Mentha arvensis L. — humid fields, Pescocostanzo and Rivisondoli (Mauri & al. 1830 as "*M. austriaca*", Tenore 1831-42 as "*M. austriaca*", Grande 1924a from a specimen collected by Gussone) and Quarto di S. Chiara [Manzi 1992a as "*M. arvensis* subsp. *austriaca* (Jacq) Briq."].

Mentha aquatica L. — riversides, humid uncultivated land - C.

Mentha × *piperita* L. — naturalized.

Mentha suaveolens Ehrh. subsp. *suaveolens* — ditches, humid environments - NC.

Mentha × *villosa* Huds. - humid meadows - NC.

Mentha longifolia (L.) Huds. em. Harley subsp. *longifolia* — riversides, humid meadows - C.

Mentha spicata L. subsp. *spicata* — naturalized, riversides, humid uncultivated land - C.

Mentha spicata subsp. *condensata* (Briq.) Greuter & Burdet [*M. microphylla* C. Koch; *M. tomentosa* Dum.-Urville; *M. rotundifolia* Huds. var. *microphylla* (C. Koch) Fiori] — riversides, humid uncultivated land - NC.

Rosmarinus officinalis L. — Steno-Medit. - naturalized - NC (Pirone 1995d).

Lavandula angustifolia Miller subsp. *angustifolia* — arid meadows and garigue. "Sopra la vigna del Mattone di Pettorano" (Gravina 1812 as "*L. spica*"), Gole di Popoli (Tammaro 1971a), Gran Sasso (Macchia Grande) (Barbagallo & Guglielmo 1975a).

Salvia officinalis L. — stony slopes, arid meadows, naturalized and NC (Viegi & al. 1990). In Marsica area the spontaneous populations having relict characters have been attributed to var. *angustifolia* Ten. (Tammaro & al. 1995).

Salvia sclarea L. — arid pastures, uncultivated areas - NC.

Salvia argentea L. subsp. *argentea* — arid pastures - NC.

Salvia glutinosa L. — cool woods - C.

Salvia pratensis L. subsp. *pratensis* — uncultivated land, arid meadows - Marsica and Avezzano (Del Carratore & Garbari 1997). *S. pratensis* subsp. *bertolonii* (Vis.) Soó recorded for Pascellata di Valle Castellana [Zodda 1967 as "*S. pratensis* var. *bertolonii* (Vis.)"] and Sirente (Guarrera & Tammaro 1994) doesn't occur in Italy (Del Carratore & Garbari 1997).

Salvia haematodes L. [*S. pratensis* subsp. *haematodes* (L.) Arcang.] — M.ti Carseolani (Del Carratore & Garbari 1997). Recorded also for Pagliaroli (Zodda 1953), Sirente (Guarrera & Tammaro 1994), S-Gran Sasso (Tammaro 1995) where need confirmation.

Salvia virgata Jacq. — pastures, arid uncultivated areas, Tagliacozzo, Marsica! (Tenore 1831-42, Anzalone & Bazzichelli 1960 from specimens collected by Grande), Capistrello, Civitella Roveto, Carsoli, Oricola (Veri 1988), Majella at Caramanico (Tammaro 1986a), Velino in Valle di Sevice (Lucchese & Lattanzi 1991), Rendinara!

Salvia verbenaca L. — arid meadows - C.

Salvia clandestina L. (*S. multifida* Sm. nom. ill.) — arid uncultivated areas, sandy alluvial soils - C (Del Carratore & Garbari 1997).

Salvia nemorosa L. — montane pastures, between Lucoli and Casamaina (Di Carlo 1993), M.ti Pizzi! (Conti & Manzi 1997c), Frattura (Conti & Minutillo 1996 from a specimen collected by Paolessi!), Campotosto!

Salvia verticillata L. subsp. *verticillata* — uncultivated land, M. dei Fiori (Guarrera 1982).

Ocimum basilicum L. — Trop. Asia - naturalized.

Solanaceae

Lycium europaeum L. — arid uncultivated land, hedges - NC (Pirone 1995d).

Atropa belladonna L. — *Fagus sylvatica* wood glades - C.

Hyoscyamus niger L. — walls - NC.

Hyoscyamus albus L. — walls - NC.

Physalis alkekengi L. — margins of woods - NC.

Salpichroa origanifolia (Lam.) Baillon — near Castello di Crecchio! (Conti & al. in press).

Solanum nigrum L. subsp. *nigrum* — ruderal environments - C.

Solanum luteum Mill. subsp. *luteum* — ruderal environments - NC.

Solanum luteum subsp. *alatum* (Moench) Dostal — uncultivated land, screes - NC.

Solanum dulcamara L. — uncultivated land, screes, riparian open woods and banks - NC.

Solanum tuberosum L. — S. Amer. - naturalized, Camarda and Arischia (Viegi & al. 1990).

Solanum melongena L. — India - naturalized.

Solanum sodomaeum L. — S. Afr. - naturalized, Giulianova (Fiori 1923-29) and feet of M. Corno, "ma oggi scomparso" (Crugnola 1900, Zodda 1967 from Petrilli) and extremely unlikely (Sacchi 1951). At Giulianova and in other places of the coast of Abruzzo it has not been found again (Sacchi 1951).

Capsicum annuum L. — S. Amer. — naturalized.

Lycopersicon esculentum Mill. — C. and S. Amer. - naturalized, Teramo province (Zodda 1953a, 1954, 1967, Pirone 1991).

Mandragora autumnalis Bertol. — Abruzzo (Tenore 1831-42 as "*M. microcarpa* Bertol.") but no longer found and to be confirmed.

Datura stramonium L. — Americ. now Cosmop. - naturalized - NC.

Datura innoxia Mill. — C. Americ. - naturalized on the coast of Pescara (Tammaro & Pirone 1979) and Mesfina in Teramo province (Viegi & al. 1990 from a specimen collected by Zodda).

Cestrum parqui L'Her. — Neotrop. - naturalized (Pirone 1995d).

Scrophulariaceae

Gratiola officinalis L. — Pignatti (1982) reports it from the Abruzzo, but exact locality not indicated, Piano delle Cinquemiglia (Buchwald 1995).

Verbascum phlomoides L. — pastures - C.

Verbascum samniticum Ten. — arid pastures, Morrone (Mauri & al. 1830, Tenore 1831-42, Murbeck 1933), Marsica at Collelongo (Anzalone & Bazzichelli 1960 from a specimen collected by Grande), Teramo province on Colle dell'Orso [Zodda 1967 as "*V. phlomoides* L. var. *australe* (Schrad.)"], Majella (Tammaro 1986a).

Verbascum densiflorum Bertol. (*V. thapsiforme* Schrad.) — pastures, Fucino margins (Mauri & al. 1830, Tenore 1831-42), Villetta Barrea, Pantano di Scanno, Val Fondillo (Anzalone & Bazzichelli 1960, D'Andrea 1982), Teramo province [Zodda 1967 as "*V. phlomoides* var. *densiflorum* (Bert.)"], Majella (Parlatore 1848-96, Tammaro 1986a), Fonte Canale (Lucchese & Lattanzi 1991), Sirente (Guarrera & Tammaro 1994), Gran Sasso (Tammaro 1995).

Verbascum niveum Ten. subsp. *niveum* — Endem. C. S. It - arid meadows, sandy uncultivated land, coast of Teramo province! [Zodda 1967 as "*V. phlomoides* var. *viminale* (Guss.)"], Pescara (Gussone 1826), near S. Silvestro beach! (Cesati 1872, Tammaro & Pirone 1979) and Velino at Piana di Magliano dei Marsi (Avena & Blasi 1974).

Verbascum niveum subsp. *garganicum* (Ten.) Murb. — Endem. C. S. It - arid pastures - NC from the coasts to the low mountain. Var. *canovirens* Murb. has been reported from M. Coccorello, Sirente, Vado di S. Antonio, Orfento, Piano delle Cinquemiglia (Murbeck 1933).

Verbascum macrurum Ten. — arid meadows, stony uncultivated land - NC.

Verbascum thapsus L. subsp. *thapsus* — arid and stony pastures - C.

Verbascum longifolium Ten. — pastures - CC.

Verbascum argenteum Ten. — Endem. C. S. Ap. - arid pastures, Villavallelonga (Anzalone & Bazzichelli 1960 quote Grande).

Verbascum lychnitis L. — arid pastures, uncultivated areas - C.

Verbascum boerhaavei L. var. *magellense* (Ten.) Fiori (*V. magellense* Ten.) — Endem. C. S. Ap. - pastures, Valle dell'Orfento (Tammaro 1986a).

Verbascum sinuatum L. — uncultivated land and arid meadows - C.

Verbascum mallophorum Boiss. & Heldr. — uncultivated land and arid meadows - C.

Verbascum pulverulentum Vill. — arid pastures - C.

Verbascum chaixii Vill. subsp. *chaixii* Murb. — uncultivated land, Villavallelonga and Collelongo (Murbeck 1933 from specimens collected by Grande), Sirente (Guarrera & Tammaro 1994).

Verbascum nigrum L. subsp. *nigrum* — arid uncultivated land - NC.

Verbascum lanatum Schrad. (*V. alpinum* Turra) — uncultivated land, Collelongo (Anzalone & Bazzichelli 1960 quote Grande).

Verbascum blattaria L. — arid uncultivated land, ruins - NC.

Verbascum phoeniceum L. — arid pastures, Teramo province in M. dei Fiori at Perticara, M. di Campi at La Murata, Ornano (Mauri & al. 1830, Tenore 1831-42, Bertoloni 1833-54, Murbeck 1933 from a specimen collected by Orsini, Zodda 1953) and Sirente, in Corvaro near "il Lago"! (Conti 1992a).

Scrophularia vernalis L. — shady cliffs in the *Fagus sylvatica* woods - NC.

Scrophularia peregrina L. — ruderal environments - NC.

Scrophularia scopolii Hoppe in Pers. — humid glades - C.

Scrophularia nodosa L. — humid woods - C.

Scrophularia auriculata L. — riversides - NC and often confused with the following species, its real distribution is to be studied.

Scrophularia umbrosa Dumort. — ditches, riversides, Villavallelonga, Val Fondillo!, Lagozzo!, Lago di Vetoio, F. Tirino! [Grande 1904 as "*S. aquatica* L.", Anzalone & Bazzichelli 1960 as "*S. aquatica* L. *alata* (Gilib.)", Corbetta & Pirone 1989, Conti 1995, Buchwald 1995], Camarda (Tammaro & al. 1979), near Rivisondoli (Pirone 1997b) and Valle dell'Orta! (Conti & Pellegrini 1988).

Scrophularia canina L. (s.l.) — thermophilous woods, scrub - C.

Scrophularia canina subsp. *bicolor* (Sm.) Greuter — thermophilous woods, scrub, stony areas - C.

Scrophularia juratensis Schleich. — screes - C.

Antirrhinum latifolium Mill. — cliffs, screes, probably spontaneous, Roccamorice (Fiori 1923-29) and Fossacesia! (Conti & Pirone 1987).

Antirrhinum majus L. subsp. *majus* — uncultivated land, walls where it is spontaneous - C.

Misopates orontium (L.) Rafin. — arid uncultivated land - C.

Misopates calycinum (Vent.) Rothm. — fields, uncultivated land, Silvi marina, bed of F. Tronto [Zodda 1953, 1967 as "*Antirrhinum orontium* var. *calycinum* (Vent.)"].

Chaenorhinum rubrifolium (Rob. & Cast.) Fourr. — walls, rocky uncultivated land. S. Vittorino Amphitheatre (Parlatore 1848-96), "M. Corno, rara sec. Petrilli" (Zodda 1953 as "*Linaria rubrifolia* Rob."), Eremo di S. Onofrio above Badia!

Chaenorhinum minus (L.) Lange subsp. *minus* — arid uncultivated land - C.

Linaria chalepensis (L.) Mill. — arid pastures, garigue - NC.

Linaria purpurea (L.) Mill. — Endem. Ap.-Si - margins of woods, stony areas - CC.

Linaria pelisseriana (L.) Mill. — arid meadows - NC.

Linaria vulgaris Mill. (incl. *L. speciosa* Ten.) — uncultivated land - CC.

Linaria alpina (L.) Mill. — screes, on the main mountain groups.

Linaria arvensis (L.) Desf. — meadows and arid pastures, Assergi and Massa d'Albe (Parlatore 1848-96), Sirente near Forca d'Acero (Guarrera & Tammaro 1994).

Linaria simplex (Willd.) DC. — arid uncultivated areas, pastures, fields, near L'Aquila (Mauri & al. 1830), Velino (Parlatore 1848-96 from Levier), Gole di Popoli (Tammaro 1971a) and Majella (Tammaro 1986a).

Cymbalaria muralis P. Gaertn. & al. subsp. *muralis* — walls and cliffs - CC.

Cymbalaria muralis subsp. *visiani* D. A. Webb [*C. muralis* var. *pilosa* (Vis.) Degen] — walls and cliffs, Alba, Avezzano, Velino, Rocca d'Alba (M. Coccorello), Gole di Celano, Parco Nazionale d'Abruzzo, Majella near Grotta del Cavallone (Vaccari & Wilczek 1940, Anzalone & Bazzichelli 1960, Chicchiriccó & Tammaro 1982, Tammaro 1986a, Leporatti & al. 1994).

Cymbalaria pallida (Ten.) Wettst. — Endem. Abr. and surroundings - screes, main mountain groups, is absent from M.ti della Laga. "Var. *beguinotii* (Cufod.) Cufod." is reported from Valle dell'Orfento (Tammaro 1986a).

Cymbalaria pilosa (Jacq.) Bailey (*Linaria pilosa* Lam. & DC.) — Endem. C. S. It - cliffs, towards Avezzano at Albe, Coccorello, S. Benedetto cave, Morrone "sub *Linaria pilosa* DC" (Tenore 1831-42, Parlatore 1848-96), Lecce nei Marsi (Anzalone & Bazzichelli 1960 da un reperto di Grande), Pescina!

Kickxia commutata (Bernh.) Fritsch subsp. *commutata* — fields, arid uncultivated land - NC.

Kickxia commutata subsp. *graeca* (Bory & Chaub.) Fernandes — arid uncultivated land, mouth of F. Sangro (Tammaro & al. 1996).

Kickxia elatine Dumort. subsp. *elatine* — fields - NC.

Kickxia spuria (L.) Dumort. subsp. *spuria* — Teramo province, Penne [Zodda 1953, 1957, 1967 as "*Linaria elatine* var. *spuria* (Mill.)"], F. Saline (Pirone 1991 as "*K. spuria*"), Gran Sasso (Tammaro 1995).

Kickxia spuria (L.) Dumort. subsp. *integrifolia* (Brot.) R. Fern. — fields - NC.

Digitalis lutea L. — Moruti di Scutigliano (Bertoloni 1833-54), Sirente (Groves 1880), M.ti Pizzi near Palena, Morrone (Tenore 1831-42, Tenore & Gussone 1843), Parco Nazionale d'Abruzzo (Paolucci in Sipari 1926) but probably erroneously (Anzalone & Bazzichelli 1960). Béguinot (1902) confutes its occurrence on M.ti Pizzi. The reports from Teramo province are to be attributed to *D. micrantha* (Zodda 1967). Grande's report (1910 from a specimen collected by Orsini) from M.ti di Accumoli near L'Aquila but belonging to Latium from the administrative point of view, makes likely its occurrence in Abruzzo.

Digitalis micrantha Roth — Endem. Ap.-Co - glades, woods - CC.

Digitalis ferruginea L. — glades, open woods - C.

Erinus alpinus L. — shady cliffs, Majella in Valle dell'Orfento, Vado di S. Antonio (Bertoloni 1833-54, Cesati 1873, Rigo 1877, Feoli-Chiapèlla 1979-80, Tammaro 1986a), Tàrì and Vallone di S. Spirito (Fara S. Martino)!

Pseudolysimachion barrelieri (Schott ex Roem. & Schult.) Holub subsp. *barrelieri* — pastures, Piani di Pezza (Lucchese & Lattanzi 1991), Sirente! (Guarrera & Tammaro 1994), Serra Lunga between Civita d'Antino and Collelongo! (Conti & Minutillo 1996).

Pseudolysimachion pallens (Host) M. A. Fisch. — Abruzzo (Scoppola & Lattanzi 1997).

Pseudolysimachion spicatum (L.) Opiz — pastures, Majella, Piano delle Cinquemiglia, Capo d'Acqua (Tenore 1831-42 as "*Veronica spicata* L. var. *canescens*"), Bosco Martese as "*Veronica spicata* var. *hybrida* (L.)" (Zodda 1953).

Veronica alpina L. — pastures, Majella, Costone (Bertoloni 1833-54, Tenore 1831-42 as "*V. alpina* var. *integrifolia* Shrank & Ten. & var. *pumila*", Tammaro 1986a), sources of Rio Arno (Abbate 1903), M.ti della Laga (Parlatore 1848-96, Villani, 1921, Zodda 1953, 1967) and the Parco Nazionale d'Abruzzo on M. Palombo (Petriccione 1986).

Veronica fruticans Jacq. — stony slopes, M. Meta [Terracciano 1872 as "*V. saxatilis* L.", Fiori 1923-29 as "*V. fruticulosa* var. *fruticans* (Jacq.)"] and M. Corno (Tenore 1811-38 as "*V. fruticulosa*", Abbate 1903, Zodda 1967 as "*V. fruticulosa* var. *fruticans*").

Veronica serpyllifolia L. subsp. *serpyllifolia* — glades and cool meadows - C.

Veronica serpyllifolia L. subsp. *humifusa* (Dicks.) Syme — glades and cool meadows - C.

Veronica acinifolia L. — fields, Rivisondoli, Roccaraso and Piano delle Cinquemiglia, borders of the road of Pàntaniello (Gravina 1812, Tenore 1831-42 as "*V. acinifolia humilis glabriuscula*", Grande 1925 as "*var. glabriuscula*"), Villavallelonga (Anzalone & Bazzichelli 1960), M. dei Fiori, M. Corno (Zodda 1953 from Crugnola).

Veronica praecox All. — stony slopes - NC.

Veronica arvensis L. — arid meadows, fields, ruderal environments - C.

Veronica verna L. — arid pastures, Velino, Majella in M. Amaro, M. dei Fiori (Mauri & al. 1830, Tenore 1831-42, Grande 1925), Colle Biferno! (Conti & Minutillo 1996).

Veronica agrestis L. — fields, M. dei Fiori, Majella, Gran Sasso, Velino (Mauri & al. 1830, Tenore 1831-42, Grande 1924b, Zodda 1953, 1967), Sirente (Guarrera & Tammaro 1994).

Veronica polita Fr. (*V. didyma* Ten.) — fields, ruderal environments - C.

Veronica persica Poir. — Subcosmop. - Adv. nat. - fields, arid uncultivated land - CC.

Veronica triloba (Opiz) Kern. — arid meadows, Majella near Pennapiedimonte (Tammaro 1986a).

Veronica hederifolia L. subsp. *hederifolia* — fields, open woods - C.

Veronica cymbalaria Bodard — stony slopes, ruderal environments - C.

Veronica peregrina L. — Amer. — uncultivated land - NC.

Veronica prostrata L. subsp. *prostrata* — arid and stony pastures, surroundings of Scanno (Gravina 1812), M. dei Fiori near Lago S. Giacomo, Abruzzo Mts, M. Corno [Bertoloni 1833-54, Zodda 1953 as "*V. teucrium* var. *prostrata* (L.)"], Villavallelonga, Collelongo [Anzalone & Bazzichelli 1960 from specimens collected by Grande as "*V. teucrium* L. var. *prostrata* (L.)"], Val Fondillo! (Conti 1995), Majella! (Tenore 1831-42 as "*V. prostrata* var. *pilosa*", Tammaro 1986a from a specimen collected by Pedicino), Gole di Celano and surroundings of Ajelli (Groves 1880, Frizzi & al. 1993, Guarrera & Tammaro 1994).

Veronica orsiniana Ten. subsp. *orsiniana* — arid pastures, glades - C - "*V. teucrium* L." is reported from Teramo province but it is to be referred to this taxon (Zodda 1953).

Veronica chamaedrys L. subsp. *chamaedrys* — glades, scrub - C.

Veronica montana L. — cool woods - C.

Veronica scutellata L. — humid meadows, Pescocostanzo, Rivisondoli, Pagliari, Campitelli!, near Opi, Piano delle Cinquemiglia! (Gussone 1826, Mauri & al. 1830, Tenore 1831-42, Tenore & Gussone 1842, Bertoloni 1833-54, Parlatore 1848-96 from Orsini, Buchwald 1995), Campo Imperatore!, Voltigno!, Altopiano delle Rocche in Val d'Arano!

Veronica urticifolia Jacq. — woods, gorges, Teramo province! (Gussone 1826, Mauri & al. 1830, Tenore 1831-42, Parlatore 1848-96, Zodda 1953, 1967, Longhitano & Ronsisvalle 1974, Pedrotti 1981, 1982a).

Veronica officinalis L. — open woods, pastures - C.

Veronica aphylla L. — humid cliffs, stony slopes at high altitude - NC.

Veronica anagallis-aquatica L. — ditches, riversides - C.

Veronica catenata Pennell — Abruzzo (Pignatti 1982).

Veronica beccabunga L. — ditches, riversides - CC.

Melampyrum cristatum L. — scrub, coppices, surroundings of Scanno (Gravina 1812), Sirente (Groves 1880, Guarrera & Tammaro 1994), Poggio Valle di Torricella Sicura (Zodda 1953), Gran Sasso (Macchia Grande) (Barbagallo & Guglielmo 1975a), Velino (Lucchese & Lattanzi 1991, Petriccione 1993).

Melampyrum arvense L. — fields, uncultivated land - NC.

Melampyrum barbatum Waldst. & Kit. (s.l.) — fields, arid uncultivated land, L'Aquila province (Parlatore 1848-96), M. Giove, Tortoreto, Bosco Martese, Isola del Gran Sasso at Ruzzo [Abbate 1903, Zodda 1953, 1967 as "*M. arvense* var. *barbatum* (W. & K.)"].

Melampyrum variegatum Huter, Porta & Rigo — Endem. C. S. Ap. - arid pastures, Villavallelonga as "*M. arvense* L. var. *variegatum* (Huter, P. & R.)" (Anzalone & Bazzichelli 1960 from specimens collected by Grande), Majella (Tammaro 1986a), Velino (Lucchese & Lattanzi 1991).

Melampyrum nemorosum L. (s.l.) — Majella at Roccamorice (Tenore 1831-42, Bertoloni 1833-54, Parlatore 1848-96), Vallevozzi near Pettorano (Parlatore 1848-96), Sirente (Groves 1880), near Scanno (Anzalone & Bazzichelli 1960 as "*M. silvaticum* var. *dentatum* Schur", Anzalone 1960), Pietracamela, Bosco Martese (Zodda 1953, 1967 as "*var. latifolium* Neilr., var. *intermedium* Pers. & Sang., f. *virens* Minio"), Gran Sasso (Macchia Grande) (Barbagallo & Guglielmo 1975a). Perhaps to be referred to *M. italicum*.

Melampyrum italicum Soó — Endem. It - open woods - NC.

Melampyrum sylvaticum L. — in the woods of Abruzzo (Tenore 1831-42), Majella, M. Corno, Bosco Martese (Gussone 1826, Cesati 1873, Zodda 1967).

Euphrasia rostkoviana Hayne subsp. *rostkoviana* — Gole di Popoli (Tammaro 1971a).

Euphrasia picta Wimm. subsp. *kernerii* (Wettst.) Yeo — pastures, Teramo province [Zodda 1953, 1965b, 1967 as "*E. officinalis* var. *kernerii* (Wettst.)"].

Euphrasia alpina Lam. — M. Corno, M. Costone, Pietracamela [Tenore 1831-42, Zodda 1953, 1967 as "*E. officinalis* var. *alpina* (Lam.)", Chiosi 1975 from a specimen collected by Marchesetti as "*Bartsia alpina*"]. According to Pignatti (1982) the reports from C. Apennines are perhaps to be referred to *E. kernerii*.

Euphrasia stricta D. Wolff ex J. F. Lehm. — arid pastures, open woods - C.

Euphrasia pectinata Ten. — pastures, glades - C.

Euphrasia micrantha Rchb. — M. Meta, M. Greco, Majella, M. La Stanca (Tenore 1831-42, Tenore & Gussone 1842, Falqui 1899 as "*E. officinalis* L. var. *gracilis* Fr."). According to Anzalone & Bazzichelli (1959-60) the report from M. Meta is probably erroneous.

Euphrasia liburnica Wettst. — pastures, Bosco Martese [Zodda 1953 as "*E. officinalis* var. *liburnica* (Wettst.)"], Majelletta (Tammaro 1986a), Rocca Calascio (Fascetti & Veri 1983), Sirente (Guarrera & Tammaro 1994).

Euphrasia minima Jacq. ex DC. — Majella (Tenore 1831-42, Feoli-Chiapella 1979-80), Gran Sasso, M.ti della Laga [Zodda 1953, 1967 as "*E. officinalis* var. *minima*"]

(Jacq.)", Dinter 1997], Civitella Roveto (Veri 1988) and Parco Nazionale d'Abruzzo! (Conti 1995).

Euphrasia salisburgensis Funck ex Hoppe — pastures, stony slopes - C.

Euphrasia illyrica Wettst. — Illyrian-Amphiadriat. - stony slopes - NC.

Euphrasia italica Wettst. — Endem. C. Ap. - arid pastures, Gran Sasso at Pietracamela [Zodda 1957 as "*E. officinalis* var. *italica* (Wettst.)"], Majella! (Feoli-Chiapella 1979-80), Sirente (Guarrera & Tammaro 1994), Parco Nazionale d'Abruzzo at Sperone! (Conti & Minutillo 1996).

Odontites luteus (L.) Clairv. — arid meadows - C - "*O. lutea* var. *linifolia* (G. Don) Fiori" is reported from Majella (Tammaro 1986a).

Odontites vernus (Bellardi) Dumort. — meadows - C.

Odontites vulgaris Moench subsp. *vulgaris* [*O. serotinus* (Lam.) Dumort.] — meadows - C.

Parentucellia viscosa (L.) Caruel — arid meadows, garigue - NC.

Parentucellia latifolia (L.) Caruel — arid meadows - C.

Bellardia trixago (L.) All. — arid meadows - C.

Pedicularis verticillata L. — meadows at high altitude - C.

Pedicularis hoermanniana K. Maly — scrub, *Fagus sylvatica* wood glades - C - The records from the Abruzzo as "*P. hacquetii* Graf." are to be referred to this taxon (Poldini 1974).

Pedicularis tuberosa L. — stony-grassy slopes - NC.

Pedicularis elegans Ten. (s.l.) — Endem. C. S. Ap. - stony-grassy slopes - NC - According to Grande (1925) var. *praetutiana* has no systematic value.

Pedicularis rostrato-spicata Crantz (s.l.) — Parco Nazionale d'Abruzzo at Forca Resuni! (Anzalone & Bazzichelli 1960, Bazzichelli & Furnari 1970), M. S. Nicola (Bruno & Bazzichelli 1966), Marsicano! (Rovelli & Conti 1995), Valle Cupella! According to Bruno & Bazzichelli (1966), Bazzichelli & Furnari (1970) and Pignatti (1982) it is an autonomous taxon.

Pedicularis comosa L. subsp. *comosa* — stony-grassy slopes - NC.

Pedicularis friderici-augusti Tømm. — stony-grassy slopes - NC.

Pedicularis petiolaris Ten. — stony pastures, Majella, Gran Sasso, Velino (Tenore 1831-

42, Parlatore 1848-96, Crugnola 1894, Zodda 1953, Tammaro 1995), top of Sirente, between Pescina and Cocullo (Guarrera & Tammaro 1994).

Rhinanthus minor L. — cool meadows - C.

Rhinanthus personatus (Beherend.) Bég. — Endem. Ap. - pastures, Gran Sasso (Vaccari 1913 as "*Alectorolophus personatus* Behrends"), Sirente (Guarrera & Tammaro 1994).

Rhinanthus wettsteini (Sterneck) Soó — Endem. C. S. Ap. - stony pastures - C.

Rhinanthus alectorolophus (Scop.) Pollich subsp. *alectorolophus* — pastures, stony slopes - C.

Rhinanthus aristatus Celak. — pastures, Brancastello (Tammaro 1995).

Lathrea squamaria L. — woods, Sirente (Veri & Tammaro 1980), Carsoli, Rocca di Botte (Veri & Bruno 1978, Veri 1988).

Lathrea clandestina L. — woods, Majella (Tenore 1831-42, Fiori 1926). Not found recently and to be confirmed.

Orobanchaceae

Orobanche ramosa L. subsp. *ramosa* — fields, arid uncultivated land - NC.

Orobanche ramosa. subsp. *mutelii* (F. W. Schultz) Cout. — fields, arid uncultivated land - NC.

Orobanche purpurea Jacq. — arid meadows - NC.

Orobanche crenata Forssk. — uncultivated land, fields, on *Leguminosae* - C.

Orobanche alba Stephan ex Willd. — pastures, on *Thymus* - NC.

Orobanche reticulata Wallr. (*O. pallidiflora* Wimmer & Grab.) — pastures, Rocca di Corno, M. Coccòrello [Parlatore 1848-96 as "*O. reticulata* var. *pallidiflora* (Wimm. & Gr.) Hayek"], Majella (Fiori 1923-29), Parco Nazionale d'Abruzzo (Anzalone & Bazzichelli 1960), Pietracamela [Zodda 1953 as "*O. reticulata* var. *pallidiflora* (Wimm. & Gr.)"].

Orobanche amethystea Thuill. — arid pastures, on *Lotus*, Teramo province at Roseto, and Campli at Fosso Bianco (Zodda 1953, 1967), Parco Nazionale d'Abruzzo (Serra della Terratta and Serra Cappella) (Petriccione 1986), Velino (Petriccione 1993).

Orobanche canescens C. Presl. — pastures, Poggio Valle di Torricella Sicura (Zodda 1953), Capo Pescara (Pirone & al. 1997).

Orobanche artemisiae-campestris Gaudin (*O. loricata* Rchb.) — Pietracamela (Zodda 1967).

Orobanche picridis F.W. Schultz ex Koch — Teramo, Montorio al Vomano and Pietracamela [Zodda 1953, 1964, 1967 as "*O. loricata* var. *picridis* (F. Schultz)"].

Orobanche minor Sm. — on *Leguminosae*, *Galium*, *Daucus*, from Riotorto to Barrea as "*O. barbata* Poir." (Tenore 1831-42, Tenore & Gussone 1842), Buscia (Bertoloni 1833-54 as "var. *gamma*"), Teramo province [Abbate 1903, Zodda 1953, 1967 as "*O. barbata* Poir." and as "*O. barbata* var. *pumila* (Graaf)"].

Orobanche hederæ Duby — Tofo di Torricella Sicura (Zodda 1962b, 1967), Gole di Celano (Guarrera & Tammaro 1994), Bocca di Valle (Dinter 1997).

Orobanche caryophyllacea Sm. — on *Rubiaceae* - NC.

Orobanche ebuli Huter & Rigo — on *Sambucus ebulus*, Isola del Gran Sasso at Ruzzo (Zodda 1953). This taxon is of doubtful taxonomic status (Greuter & al. 1984-89).

Orobanche flava F. W. Schultz — M.ti della Laga, Valle del Rio Castellano (Brilliacattarini & Gubellini 1986b).

Orobanche rapum-genistæ Thuill. — pastures - C.

Orobanche gracilis Sm. — pastures - C.

Orobanche variegata Wallr. — on *Genista* and *Coronilla*, Teramo province (Zodda 1967), Gole di Popoli (Tammaro 1971a).

Acanthaceae

Acanthus mollis L. subsp. *mollis* — W. Medit. - doubtful exotic, Majella (Parlatore 1848-96, Cesati 1873), Pescara (Pirone & al. in press).

Globulariaceae

Globularia punctata Lapeyr. — arid pastures - C.

Globularia meridionalis (Podp.) O. Schwarz — montane stony slopes - C.

Globularia cordifolia L. — Alps Endem. - Gran Sasso (Console & Frattaroli 1989), Velino, Majella, M. dei Fiori (Tenore 1831-42). Its occurrence is to be checked.

Lentibulariaceae

Pinguicula vulgaris L. — wet cliffs, humid and peaty meadows, Campotosto! (Cecchetti 1907, Marchetti 1936), M.ti della Laga! (Tammaro & Pace 1987), Altopiano delle Rocche (Gruppo Lavoro Conservazione Natura S.B.I. 1979),

Simbruini at Morino!, Gran Sasso on M. Prena (Chiosi 1975 from a specimen collected by Marchesetti, Catonica 1997), along Valle del Rio Arno!, Vallone Fossaceca! and Colle Malanotte!

Pinguicula longifolia DC. subsp. ***reichenbachiana*** (Schindl.) Casper (*P. reichenbachiana* Schindl.; *P. fiorii* Tammaro) — Near endem. - wet cliffs, humid and peaty meadows, M. Focalone!, Bocca di Valle!, Valle dell'Orfento!, Vallone di S. Spirito, Camosciara!, M. Corno, Pizzo di Sevo, Valle Castellana [Gussone 1826 as "*P. grandiflora* Lam.", Zodda 1967 as "*P. vulgaris* var. *reichenbachiana* (Schindler)", Tammaro & Pace 1987], Valle di Fara near Milazzo! The locality of Pietracamela is to be referred to *P. vulgaris*. Previous reports from this locality have been erroneously referred to *P. vulgaris* var. *reichenbachiana* (Schindl.)" (Zodda 1957). *P. fiorii* is considered as synonym of *P. longifolia* subsp. *reichenbachiana* (Schlauer 1994).

Utricularia minor L. — Campotosto (Cecchetti 1907, Marchetti 1936) where it could be extinct.

Utricularia vulgaris L. — ponds, marshes, surroundings of Scanno (Gravina 1812), M. Pelone near Pietralta (Bertoloni 1833-54), Capo Pescara (Basile & al. 1970, Tammaro & al. 1987).

Plantaginaceae

Plantago major L. subsp. ***major*** — uncultivated land, ruderal environments, plains at high altitude - CC - In the snowbed meadows of the Parco Nazionale d'Abruzzo and Simbruini it could occur with glaucous leaves 3-5 nerved and capsule bearing 9 seeds (Conti 1995).

Plantago major subsp. ***intermedia*** (Gilib.) Lange — humid places, Teramo province at Silvi, Giulianova and Intermesoli (Zodda 1967 as "*P. major* var. *paludosa* Beg."), Villavallelonga [Anzalone & Bazzichelli 1960 as "*P. major* var. *sinuata* (Lam.)"], Pescasseroli, Morrone del Diavolo, Villetta Barrea (from specimens collected by Anzalone and Rosati in Herb. PNA).

Plantago cornutii Gouan — Castiglione della Valle and Arapietra (Crugnola 1900, Zodda 1953); according to Pignatti (1982) it has here probably disappeared.

Plantago coronopus L. (*P. columnae* Gouan) — ruderal environments - C.

Plantago weldenii Rchb. subsp. ***weldenii*** [*P. coronopus* subsp. *commutata* (Guss.) Pilger] — sandy or arid uncultivated land, Teramo province [Zodda 1953, 1967 as "*P. coronopus* var. *commutata* (Guss.)"], coast of Pescara (Tammaro & Pirone 1979), erosion furrows of Atesa (Pirone 1995a).

Plantago macrorrhiza Poir. subsp. ***humilis*** (Guss.) Pilg. — arid uncultivated land, S. Valentino (Cesati 1873 as "*P. macrorrhiza*"), Tortoreto [Zodda 1953 as "*P. coronopus* var. *macrorrhiza* (Poir.)"].

Plantago crassifolia Forssk. — coast saline depressions, Faro di Vasto!, coasts between Vasto and S. Salvo! (Conti & Pirone 1988, Pirone 1995b).

Plantago serraria L. — arid uncultivated land - NC.

Plantago maritima L. subsp. *serpentina* (All.) Arcang. (*P. serpentina* All.) — Pizzoli, M. dei Fiori, Cortino [Mauri & al. 1830, Tenore 1831-42 as "*P. recurvata* Ten.", Zodda 1967 as "*P. serpentina* (Vill.) f. *ciliata* Koch"], Velino [Montelucci 1958 as "*P. maritima* L. var. *serpentina* (Vill.)"], Sirente (Pignatti 1982), Gran Sasso (Barbagallo & Guglielmo 1975a), Civitella Roveto and Cappadocia (Veri 1988). This taxon is of doubtful taxonomic status (Greuter & al. 1984-89).

Plantago holosteum Scop. — arid pastures - CC - *P. subulata* L. has been also reported from La Meta, L'Aquila, Gran Sasso, Majella and Rivisondoli (Gussone 1826, Tenore 1831-42) but probably for confusion with *P. holosteum*.

Plantago media L. — meadows and pastures - CC.

Plantago atrata Hoppe subsp. *atrata* — meadows at high altitude, snowbed meadows - C.

Plantago atrata subsp. *fuscescens* (Jord.) Pilg. (*P. fuscescens* Jord.) — Near endem. - stony slopes - NC - *P. fuscescens* Jord. var. *tenuis* Pilger is reported from Majella (Tammaro 1986a).

Plantago lanceolata L. — ruderal environments, uncultivated land - CC - "*P. lanceolata* var. *sphaerostachya* Mert. & Koch" is reported from Majella (Tammaro 1986a), while "*P. lanceolata* var. *mediterranea* (Kerner) Pilger" is reported from Teramo province as "*P. lanceolata* var. *maritima* Gr. & Godr." (Zodda 1953), coast of Pescara (Tammaro & Pirone 1979), Sirente (Guarrera & Tammaro 1994).

Plantago altissima L. — surroundings of Scanno (Gravina 1812), Teramo province as "*P. lanceolata* var. *altissima* (L.)" (Abbate 1903, Zodda 1953, 1967), Villetta Barrea [Anzalone & Bazzichelli 1960 as "*P. lanceolata* var. *altissima* (L.)"] but doubtfully according to the authors themselves. According to Pignatti (1982) the taxon would have been erroneously reported.

Plantago argentea Chaix — stony pastures - NC.

Plantago lagopus L. — arid uncultivated land - NC.

Plantago bellardi All. — arid uncultivated land - NC.

Plantago arenaria Waldst. & Kit. (*P. indica* L.) — arid uncultivated land - NC.

Plantago afra L. — arid uncultivated land - NC.

Plantago sempervirens Crantz (*P. cynops* L.) — arid meadows - C.

Caprifoliaceae

Symphoricarpos albus (L.) S. F. Blake — naturalized, Villetta Barrea (Viegi & al. 1990 from a specimen collected by Anzalone).

Sambucus ebulus L. — uncultivated land, ruderal environments - CC.

Sambucus nigra L. — humid woods, glades, hedges, ruderal environments, to 1500 m - CC.

Sambucus racemosa L. — Gran Sasso in Nocelleto near Rifugio Acerbo (Ronsisvalle 1979). To be confirmed.

Viburnum lantana L. — submontane and montane thermophilous woods and their margins, scrub and hedges, to 1100 m - C.

Viburnum tinus L. subsp. *tinus* — *Fagus sylvatica* woods, maquis, woods of thermophilous broadleaves to 800 m - C.

Viburnum opulus L. — humid woods, Gran Sasso at M. Corno (Parlatore 1848-96 from Orsini, Abbate 1903), Valle del Sangro near Ateleta! (Conti & Stanisci 1990), Lagozzo and outlet ditch! (Conti 1992c), Bosco di Oricola!

Lonicera alpigena L. — *Fagus sylvatica* woods, scrub, to 2100 m - C.

Lonicera nigra L. — between the *Fagus sylvatica* woods and the scrub with *Pinus mugo*, Majella in Vallone di Fara S. Martino! (Conti 1987).

Lonicera xylosteum L. var. *nigra* Loisel. — woods of broadleaves, scrub - C.

Lonicera japonica Thunb. — naturalized, Pineta d'Avalos! (Tammaro & Pirone 1981) and riversides of F. Pescara near its mouth (Pirone 1981c), S. Silvestro Colle near Pescara (Pirone 1985).

Lonicera implexa Aiton — *Fagus sylvatica* woods, maquis, hedges - C.

Lonicera caprifolium L. — mixed woods, maquis, hedges - C.

Lonicera etrusca Santi — thermophilous scrub, hedges - C.

Adoxaceae

Adoxa moschatellina L. — *Fagus sylvatica* woods - NC.

Valerianaceae

Valerianella coronata (L.) DC. — uncultivated land, arid meadows - C.

Valerianella discoidea (L.) Loisel. — arid and stony pastures, between Gioia dei Marsi and Gioia Vecchio, Gioia Vecchio (Vaccari & Wilczek 1940), M.ti della Laga at Paladini di Crognaleto [Zodda 1953 as “*V. coronata* var. *discoidea* (Lois.)”], Majella at Caramanico (Cesati 1873), Sirente (Guarrera & Tammaro 1994).

Valerianella pumila (L.) DC. — fields, Abruzzo (Bertoloni 1833-54), Camarda, Aragno and Caramanico (Gussone 1826 as “*Fedia sphaerocarpa* Guss.”, Parlatore 1848-96 from Tenore and Gussone), Villavallelonga (Anzalone & Bazzichelli 1960 as “*V. multifida* Grande” from a specimen collected by Grande), Gran Sasso (Macchia Grande) (Barbagallo & Guglielmo 1975a as “*V. multifida* Grande”), Sirente (Guarrera & Tammaro 1994). According to Grande (1911) it is a common species for Abruzzo and synonym of *V. brachystephana* (Ten.) Bertol. According to Arrigoni (1990) *V. brachystephana* is a hybrid (*V. coronata* × *V. pumila*).

Valerianella eriocarpa Desv. — arid meadows - NC.

Valerianella muricata (Stev. ex Bieb.) J. W. Loudon — arid pastures, Abruzzo (Pignatti 1982), Gole del Sagittario! (Conti & Minutillo 1996).

Valerianella microcarpa Loisel. — uncultivated land, fields, near Teramo, Penne [Zodda 1953 as “*V. dentata* var. *microcarpa* (Lois.) Fiori”] and generally from the Teramo province (Zodda 1967).

Valerianella puberula (Bertol. ex Guss.) DC. — uncultivated land, fields, Oricola (Veri 1988).

Valerianella rimosa Bast. — uncultivated land, fields - NC.

Valerianella dentata (L.) Pollich — arid meadows, uncultivated land - NC.

Valerianella locusta (L.) Laterr. — fields, arid meadows - NC.

Valerianella carinata Loisel. — fields, uncultivated land - NC.

Valerianella echinata (L.) DC. — fields, arid uncultivated land - NC.

Valeriana salinca All. — Near endem. - stony meadows at high altitude, Velino, Sirente, Majella!, Gran Sasso! (Tenore 1831-42, Rigo 1877, Groves 1880, Abbate 1903, Martelli 1904, Zodda 1953, 1967, Tammaro 1986a, Petriccione 1993, Tammaro 1995).

Valeriana montana L. — screes, humid stony slopes - CC - “var. *rotundifolia* (Vill.) Fiori” is also reported.

Valeriana tripteris L. — screes, humid stony slopes - NC.

Valeriana dioica L. — humid pastures, Sirente (Groves 1880, Frizzi & al. 1993, Guarrera & Tammaro 1994), Campotosto (Cecchettani 1907) where it is probably extinct.

Valeriana tuberosa L. — arid pastures - CC.

Valeriana officinalis L. — meadows and humid woods - C.

Valeriana collina Wallroth — humid meadows, M.ti della Laga at Cortino and Bosco Martese (Zodda 1953 as "*V. officinalis* var. *tenuifolia* Vahl"), Rivisondoli (Pirone 1986), Majella (Tammaro 1986a), Sirente (Frizzi & al. 1993), Cavuto Sources near Anversa!, Padula between Pescasseroli and Bisegna! (Conti & Minutillo 1996), M.ti Pizzi (Galetti pers. comm.), Valle di Chiarino!, Vallone Fossaceca!

Centranthus ruber (L.) DC. subsp. *ruber* — thermophilous cliffs, walls - C.

Centranthus angustifolius (Mill.) DC. — Sirente (above Gagliano Aterno) (Groves 1880), M.ti della Laga at Moricane, near the sources of T. Castellano (Parlatore 1848-96 from Orsini, Grande 1913 from a specimen collected by Orsini), Gran Sasso (Tammaro 1983c), Majella where it is doubtfully reported from the Valle dell'Orfento (Tammaro 1986a as "*C. cfr. angustifolius*"), between Campo di Giove and Passo S. Leonardo (Pirone pers. comm.), between Campo di Giove and Guado di Coccia! (Galetti pers. comm.).

Dipsacaceae

Cephalaria transsylvanica (L.) Roem. & Schult. — uncultivated land, arid meadows - NC.

Cephalaria leucantha (L.) Schrad. — arid meadows, stony slopes - C.

Dipsacus fullonum L. — humid uncultivated land, clayey fields - CC.

Dipsacus ferox Loisel — Teramo province [Zodda 1953, 1967 as "*D. fullonum* var. *ferox* (Lois.)"] and Majella at Caramanico and S. Valentino (Mauri & al. 1830, Tenore 1831-42). Its occurrence is to be confirmed (Caputo pers. comm.).

Succisa pratensis Moench — humid meadows, Campotosto (Cecchettani 1907), Sirente in Val d'Arano (Tammaro 1983c), Piano di Navelli (Tammaro 1995), Ocre (Guarrera & al. 1995).

Knautia drymeia Heuffel cfr. subsp. *centrifrons* (Borbas) Ehrend. — cool woods, Pizzo di Sevo, Gran Sasso! [Gussone 1826 as "*Scabiosa sylvatica* L.", Tenore 1831-42 as "*Scabiosa sylvatica*", Zodda 1957, 1967 as "*K. arvensis* var. *sylvatica* Coult.", Barbagallo & Guglielmo 1975a, 1975b as "*K. sylvatica* (L.) Duby"], Valle Castellana!, Valle del T. Castellano near "Cascata Le Moricane!", Campotosto!, near Aringo! The site near Pietracamela is confirmed, where it has been observed in Valle del Rio Arno! *K. arvensis* var. *sylvatica* Coult. and var. *glandulosa* are reported from the Parco Nazionale d'Abruzzo (Anzalone & Bazzichelli 1960, Bazzichelli & Furnari 1970) but probably it is to be referred to *K. purpurea*.

Knautia gussonei Szabó — Endem. Abr. - woods of broadleaves, so far known only from

Chiarino (Szabó 1934). Since Pignatti (1982) does not know a locality in Abruzzo having this name, he thinks it could be Chiarano near Piano delle Cinquemiglia, nevertheless it could be Valle di Chiarino in Gran Sasso d'Italia.

Knautia calycina (C. Presl.) Guss. — arid pastures, M. dei Fiori, M. Corno [Zodda 1953 as "*K. arvensis* Coult. var. *calabrica* (Szabó)"], Pretoro (Tammaro 1986a), Velino in Valle di Sevice (Lucchese & Lattanzi 1991).

Knautia purpurea (Vill.) Borbás — arid pastures - C - var. *calabrica* Szabó (Lucchese & Lattanzi 1991) has been reported.

Knautia illyrica G. Beck — According to Pignatti (1982) it is reported for confusion with other taxa.

Knautia integrifolia (L.) Bertol. subsp. *integrifolia* — arid pastures - NC.

Lomelosia crenata (Cyr.) Greuter & Burdet subsp. *pseudisetensis* (Lacaita) Greuter & Burdet — Endem. C. S. It - detrital slopes - NC - The previous reports of *L. crenata* subsp. *crenata* are to be referred to this taxon. Caputo & Cozzolino (1995) show the discriminant characters of the two taxa.

Lomelosia graminifolia (L.) Greuter & Burdet subsp. *graminifolia* (*Scabiosa graminifolia* L.) — stony slopes - NC.

Lomelosia argentea (L.) Greuter & Burdet (*S. argentea* L.) — arid meadows and garigue - NC.

Scabiosa silenifolia Waldst. & Kit. — Oroph. N. E. Medit. (Amphiadriat.) - stony mountain tops, Ernici on Pizzo Deta on the cliffs surrounding "orto del Centauro" (Grande 1922), Parco Nazionale d'Abruzzo! (Anzalone & Bazzichelli 1960, Conti 1995), Gran Sasso at Arapietra (Abbate 1903, Zodda 1953 from Crugnola), Majella! (Gussone 1826, Bertoloni 1833-54, Rigo 1877, Tenore 1831-42, Tammaro 1986a), Aremogna towards Toppe del Tesoro (Pirone 1997b), Secine!

Scabiosa columbaria L. (s.l.) — arid pastures, margins of woods - CC - var. *ceratophylla* (Ten.) Fiori and subsp. *portae* (Huter) Hayek are reported, the latter has a doubtful systematic value (Greuter & al. 1984-89).

Scabiosa pyrenaica All. (*S. vestita* Jord.) — Endem. W. Alps-C. Ap.? - Villetta Barrea as "*S. columbaria* var. *pyrenaica* (All.); *S. columbaria magellensis* (Parl.)" (Anzalone & Bazzichelli 1960), Gran Sasso, with slight differences [Zodda 1967 as "*S. columbaria* L. var. *magellensis* (Parl.)", Pignatti 1982 as "*S. vestita*"], Canistro (Veri 1988 as "*S. vestita*"), Velino (Blasi & al. 1990).

Scabiosa uniseta Savi — Endem. Ap. - arid pastures - NC.

Scabiosa triandra L. (*S. gramuntia* L.) — arid pastures - NC.

Scabiosa holosericea Bertol. — meadows at high altitude - NC.

Sixalix atropurpurea (L.) Greuter & Burdet subsp. *atropurpurea* — naturalized at Gole di Celano (Guarrera & Tammaro 1994).

Sixalix atropurpurea subsp. *maritima* (L.) Greuter & Burdet [*Scabiosa atropurpurea* L. subsp. *maritima* (L.) Arcang.] — arid meadows, fields - NC.

Campanulaceae

Legousia speculum-veneris (L.) Chaix — fields - C.

Legousia falcata (Ten.) Fritsch — fields, arid uncultivated land, M.ti di Caramanico (Cesati 1873 as "*Specularia falcata* DC."), Teramo, M. Tre Croci, Villa Vomano (Zodda 1962b, 1964, 1967 as "*Specularia falcata* DC."), Scanno (Conti & Minutillo 1996 from a specimen of Paolessi!).

Legousia hybrida (L.) Delarbre — M.ti di Caramanico (Cesati 1873 as "*Specularia hybrida* DC."), Teramo (Zodda 1953), Gole del Sagittario (Serafini pers. comm.), Lentella!

Campanula rapunculus L. subsp. *rapunculus* — uncultivated land and arid pastures - CC.

Campanula persicifolia L. subsp. *persicifolia* — open woods, scrub - C.

Campanula sibirica L. subsp. *sibirica* — arid uncultivated land, margins of woods, Teramo, Arsità, Torricella Sicura, M. Tre Croci, Valle di Taranta, Valle dell'Orfento, near Pietracamela (Mauri & al. 1830, Tenore 1831-42, Cesati 1872, Parlatore 1848-96, Zodda 1953, 1967, Barbagallo & al. 1986).

Campanula sibirica L. subsp. *divergentiformis* (Jáv.) Domin — uncultivated land and arid meadows, margins of woods, Teramo, Valle del Vomano! [Zodda 1953 as "*C. sibirica* var. *spathulata* (W. & K.)"], Gole di Popoli, Valle dell'Orfento [Tammaro 1971a "sub *C. sibirica* L. var. *divergens* (W. & K.) Neill. ex Hayek"] and Valle di Taranta (Tenore 1831-42 as "*C. sibirica* var. A").

Campanula dichotoma L. — arid uncultivated land, Gole di Popoli (Tammaro 1971a).

Campanula glomerata L. subsp. *glomerata* — stony pastures - NC.

Campanula glomerata subsp. *elliptica* (Schult.) Kirschleger — stony pastures - C.

Campanula glomerata subsp. *farinosa* (Anrz.) Kirschleger — stony pastures - NC.

Campanula glomerata subsp. *cervicarioides* (Schult.) Arcang. — stony pastures - NC.

Campanula foliosa Ten. — pastures and *Fagus sylvatica* wood glades - C.

Campanula cervicaria L. — arid pastures, M. Corno (Tenore 1831-42 as "*C. cervicaria* var. *elata*"), Majella at Bocca di Valle (Tammaro 1986a).

Campanula spicata L. — stony pastures, M. ti della Laga, M. dei Fiori, Gran Sasso (Mauri & al. 1830, Tenore 1831-42, Zodda 1953, 1965d, 1967, Tondi 1992 from Brilli-Cattarini, Tammaro 1995) and Majella (Tammaro 1986a).

Campanula fragilis Cyr. subsp. *cavolinii* (Ten.) Damboldt (*C. cavolinii* Ten.) — Endem. Abr. - calcareous cliffs from 200 m in Valle dell'Orta! to 1800 m in Valle di Taranta (Galetti pers. comm.), var. *hirta* Ten. and var. *glabra* Ten. have been reported.

Campanula erinus L. — cliffs and walls - C.

Campanula latifolia L. — open woods and margins - NC.

Campanula trachelium L. subsp. *trachelium* — glades, open woods - CC.

Campanula rapunculoides L. — Valle del Mavone from Petrilli (Crugnola 1900, Zodda 1953). To be confirmed.

Campanula bononiensis L. (incl. *C. obliquifolia* Ten.) — open woods, glades, Majella and Morrone (Tenore 1831-42, Tenore & Gussone 1842, Parlato 1848-96, Tammaro 1986a as "*C. obliquifolia*"), territory of Villavallelonga! (Grande 1904) (according to Anzalone & Bazzichelli 1960 it should be referred probably to *C. obliquifolia*), Conca Aquilana (Console & Frattaroli 1989), Velino (Lucchese & Lattanzi 1991), Sirente near Secinara (Guarnera & Tammaro 1994).

Campanula trichocalycina Ten. — Majella (Tenore 1831-42). No other author found it later and it is to be confirmed.

Campanula tanfanii Podl. — Endem. C. Ap. - cliffs - NC.

Campanula micrantha Bertol. (*C. apennina* Podl.) — Endem. C. Ap. - stony pastures - NC.

Campanula pseudostenocodon Lacaita — Endem. C. S. Ap. - meadows at high altitude, L'Aquila province (Pignatti 1982), Valle di Sevice (Lucchese & Lattanzi 1991).

Campanula rotundifolia L. (s.l.) — Velino, Pizzoli, Majella (Mauri & al. 1830), Lago Vivo, Camosciara, Forca d'Acero, Val Canneto, Forcellone, Meta, Chiarano (Tenore 1831-42, Tenore & Gussone 1842, Società Botanica Italiana 1953, Anzalone & Bazzichelli 1960), Teramo province (Zodda 1953, 1967). The reports already existing should be probably referred to the species of subsect. *Heterophylla* (Wit.) Fed.

Campanula scheuchzeri Vill. — pastures, stony slopes - CC.

Campanula cochleariifolia Lam. — cliffs at high altitude - NC.

Phyteuma orbiculare L. — pastures, stony slopes - CC.

Phyteuma hemisphaericum L. — alpine pastures, Sirente (Groves 1880), Gran Sasso on M. Corno, Prati di Tivo and Pietracamela (Zodda 1953), Civitella Roveto (Veri 1988).

Edrajanthus graminifolius (L.) A. DC. subsp. *graminifolius* (*E. graminifolius* subsp. *apenninus* Lakusic) — cliffs, stony slopes - C.

Jasione montana L. — arid sandy uncultivated land, Majella, Li renani and Pizzo di Sevo (Mauri & al. 1830, Tenore 1831-42, Parlatore 1848-96), M.ti della Laga!, M. dei Fiori and Gran Sasso (Abbate 1903, Zodda 1953, 1957, 1959b, 1967, Barbagallo & al. 1986).

Compositae

Eupatorium cannabinum L. subsp. *cannabinum* — watercourses, humid environments - CC.

Adenostyles glabra (Mill.) DC. subsp. *glabra* [*Cacalia alpina* L.] — *Fagus sylvatica* woods, humid pebbly areas - C - "var. *australis* (Ten.) Wagenitz" is also reported.

Solidago virgaurea L. subsp. *virgaurea* — open woods, scrub, pastures - CC - var. *pygmaea* (Bertol.) Fiori is also reported.

Solidago gigantea Aiton — N. Amer. (Adv. nat.) — humid environments, mouth of F. Sangro (Tammaro & al. 1996).

Aster linosyris (L.) Bernh. — arid meadows and garigue - NC.

Aster tripolium L. subsp. *pannonicus* (Jacq.) Soó — humid saline clays and sands - NC.

Aster alpinus L. — stony meadows at high altitude, main mountain groups. Three populations occurring on the Gran Sasso have been investigated from the caryological point of view: they are tetraploid, while in the Alps they seem only diploid (Favarger 1997). The tetraploid chromosome number is confirmed by Baltisberger & al. (1996).

Aster bellidiastrum (L.) Scop. — stony slopes - NC.

Aster novi-belgii L. — N. Amer. (Adv. nat.) — humid environments, Valle dell'Aterno near Fossa (Tammaro & Frizzi 1982) and Pescara (Viegi & al. 1990 from a specimen collected by Tammaro).

Aster squamatus (Spreng.) Hieron. — Neotrop. (Adv. nat.) - uncultivated land, ruins - C.

Conyza bonariensis (L.) Cronquist — Trop. America (Adv. nat.) - arid uncultivated land - C.

Conyza albida Willd. ex Spreng. — Trop. America (Adv. nat.) - arid uncultivated land - C along the coastal and in the hill area.

Conyza canadensis (L.) Cronquist — Cosmop. — naturalized, ruderal environments - C.

Erigeron acer L. subsp. *acer* — pastures, arid uncultivated areas - NC.

Erigeron angulosus Gaud. — meadows at high altitude, Gran Sasso (Conti & Minutillo 1996 from a specimen collected by Ballelli!).

Erigeron alpinus L. — NC and to be confirmed in many areas. Recently found on Sirente (Guarrera & Tammaro 1994 from a specimen collected by Profeta). Var. *strigosus* Fiori has been reported from Apennines.

Erigeron epiroticus (Vierh.) Halácsy — meadows at high altitude, stony slopes. Main mountain groups.

Erigeron atticus Vill. — grassy-stony slopes, near Lago Vivo! (Conti & Minutillo 1996), Valle Cupella! and foot of M. Petroso!

Erigeron glabratus Hoppe & Hornsch. ex Bluff & Fingerh. — meadows at high altitude, Parco Nazionale d'Abruzzo [Anzalone & Bazzichelli 1960 as "*E. alpinus* L. *glabratus* (Hpe.)"], Civitella Roveto (Veri 1988).

Erigeron uniflorus L. — meadows at high altitude, Majella [Tammaro 1986a as "*E. uniflorus* var. *aprutii* (Vierh.) Fiori"]. Zodda's reports (1953) as "*E. alpinus* L. var. *uniflorus* (L.) Fiori" are to be referred to *E. epiroticus* (Tondi 1992) with which it has been often confused, therefore its real distribution should be investigated again.

Bellis annua L. subsp. *annua* — meadows, uncultivated areas - NC.

Bellis perennis L. (incl. *B. hybrida* Ten.) — uncultivated land, meadows, var. *meridionalis* Favrat has also been reported (Guarrera & Tammaro 1994).

Bellis pusilla (N. Terracc.) Pignatti — meadows at high altitude, glades, snowbed meadows - NC - According to Brilli-Cattarini (pers. comm.) this taxon has a doubtful systematic value.

Bellis sylvestris Cyr. — uncultivated areas, pastures - C.

Bombycilaena erecta (L.) Smoljan. (*Micropus erectus* L.) — meadows and arid uncultivated land - C.

Filago pygmaea L. [*Evax pygmaea* (L.) Brot.] — arid uncultivated land of coast and arid meadows of the hill belt. Coasts from Giulianova to Silvi (Zodda 1953, 1967), Torino di Sangro! (Conti & al. 1990 as "*E. pygmaea*"), Valle dell'Orta!, Piana dell'Ospedale! and confirmed in Teramo province from the mouth of F. Tordino! (Conti & Manzi 1996).

Filago vulgaris Lam. [*F. germanica* (L.) Huds.] — uncultivated areas, arid pastures - NC.

Filago eriocephala Guss. — arid uncultivated land, Parco Nazionale d'Abruzzo [Anzalone & Bazzichelli 1960 as "*F. germanica* L. var. *eriocephala* (Guss.)"].

Filago pyramidata L. — humid meadows, ruderal environments - NC.

Filago arvensis L. [*Oglifa arvensis* (L.) Cass.] — fields, arid uncultivated land, Valle del Mavone, Crognaleto at Nerito and Bosco Martese (Crugnola 1900, Zodda 1953).

Filago gallica L. [*O. gallica* (L.) Chrtk & Holub] — fields, arid uncultivated land - NC.

Antennaria dioica (L.) Gaertn. — subalpine and alpine pastures - NC.

Leontopodium alpinum Cass. subsp. *nivale* (Ten.) Tutin — Near endem. - stony mountain tops, M.ti della Laga on Pizzo di Sevo, Gran Sasso!, Majella! (Tenore 1831-42 as "*Gnaphalium leontopodium*", Cesati 1872, Furrer & Furnari 1960, Bazzichelli 1960, Zodda 1953 as "*L. alpinum* Cass. var. *nivale* DC.", Tammaro 1986a, Tammaro 1995), Parco Nazionale d'Abruzzo on M. Greco (Petriccione 1985).

Gnaphalium sylvaticum L. — montane pastures - C.

Gnaphalium hoppeanum Koch subsp. *magellense* (Fiori) Strid — Endem. C. S. It and Greece - snowbed meadows. Main mountain groups.

Gnaphalium luteoalbum L. — humid uncultivated land, along the bed of F. Vibrata, near Tortoreto (Bertoloni 1833-54), from F. Vibrata to F. Tordino, Teramo, F. Mavone and F. Fiumetto (Zodda 1953), Sirente (Groves 1880), Gran Sasso (Macchia Grande) (Barbagallo & Guglielmo 1975a as "*G. luteo-album* var. *sphaericum* Perr.").

Gnaphalium uliginosum L. var. *prostratum* (Fiori) Fiori — riversides and ponds, Piano delle Cinquemiglia, Piani Palentini near Capistrello, Teramo (Gussone 1826, Tenore 1831-42, Tenore & Gussone 1842, Signorini 1995 from a specimen collected by Huet du Pavillon which has been designed as lectotypus), Voltigno!, Piano di Ovindoli!, Campotosto! (Conti & al. in press).

Phagnalon sordidum (L.) Rchb. — cliffs, hills along the road of Tagliacozzo as "*Conyza sordida*" (Gussone 1826, Tenore 1831-42). Not found recently and to be confirmed.

Phagnalon rupestre (L.) DC. subsp. *annoticum* (Jord.) Pignatti — cliffs, Valle del Mavone [Zodda 1953 from specimens collected by Petrilli as "*Ph. rupestre* var. *tenorei* (Presl.)", Pignatti 1982].

Phagnalon graecum Boiss. & Heldr. subsp. *illyricum* (Lindb.) Ginzberger — gypsum cliffs and garigue, Valle del Trigno near Lentella! (Conti & Pirone 1988) and Fresagrandinara!

Phagnalon saxatile (L.) Cass. — cliffs, surroundings of Scanno (Gravina 1812 as “*Coniza saxatilis*”), Gran Sasso at Tossicia (Crugnola 1900, Zodda 1953 from Petrilli).

Helichrysum italicum (Roth) G. Don subsp. *italicum* — arid meadows, garigue - CC.

Inula helenium L. — humid meadows, ditches, Caramanico (Cesati 1873), surroundings of Abbateggio (Tammaro 1986a from a specimen collected by Rigo), Teramo province at Lago di Pagliara!, Valle del Mavone (Bertoloni 1833-54, Crugnola 1900, Zodda 1953, 1967), Abetina di Rosello!, Castel di Sangro! and between it and Roccaraso (Anzalone & al. 1986), M. S. Domenico! (Conti & Manzi 1996).

Inula salicina L. subsp. *salicina* — humid meadows - C.

Inula spiraeifolia L. — arid stony slopes, Caramanico (Cesati 1873 as “*I. squarrosa* L.”), Gran Sasso in the valley below Colle della Vigna near Castelvecchio Calvisio (Tammaro 1995).

Inula hirta L. — arid meadows - C.

Inula britannica L. — humid meadows, ditches, Piano delle Cinquemiglia (Fiori 1923-29), between Tagliacozzo and Avezzano, Lago di Ortuchio (Anzalone 1960, Tammaro & al. 1995).

Inula montana L. — arid pastures - C.

Inula conyza DC. — open woods - C.

Inula bifrons L. — margins of woods and grassy terraces, M. ti Pizzi in M. S. Domenico! and M. di Mezzo! (Conti & Manzi 1996), M. Pidocchio! and Majella in M. Ugni (Conti & al. in press).

Inula crithmoides L. — pebbly beaches, saline uncultivated land on the coast - NC.

Dittrichia graveolens (L.) Greuter [*Inula graveolens* (L.) Desf.] — abandoned fields, arid uncultivated land - NC.

Dittrichia viscosa (L.) Greuter [*Inula viscosa* (L.) Aiton] — ruderal environments, arid uncultivated land - CC.

Pulicaria sicula (L.) Moris — humid environments, Giulianova (Bertoloni 1833-54 as “*Jasionia sicula*”, Zodda 1953 from Gussone). Not found recently and to be confirmed.

Pulicaria vulgaris Gaertn. — humid environments - NC.

Pulicaria dysenterica (L.) Bernh. subsp. *dysenterica* — abandoned fields, ruderal environments - C.

Pulicaria odora (L.) Rchb. — maquis, glades, coppices, Majella (Abbate 1903 as "*Inula odora* Will.", Pignatti 1982).

Asteriscus aquaticus (L.) Less. — humid environments, mouth of F. Sangro (Tammaro & Visca 1987, Tammaro & al. 1996).

Pallenis spinosa (L.) Cass. subsp. *spinosa* [*Asteriscus spinosus* (L.) Sch. Bip. subsp. *spinosus*] — arid meadows - C.

Bidens cernua L. — muds, humid environments, Fucino margins (Gussone 1826, Tenore 1831-42), Pescara (Santoro s.d. from a specimen collected by Orsini), Lago di Ortucchio (Tammaro & al. 1995).

Bidens tripartita L. — riversides, humid meadows - C.

Bidens frondosa L. — N. Amer. - Adv. nat. — muds, humid environments, Martinsicuro on F. Tronto (Zodda 1967 from Brilli-Cattarini), F. Pescara near its mouth, Città S. Angelo, F. Saline, mouth of F. Vomano (Pirone 1983, 1991, 1995b), Serranella! (Conti in press).

Guizotia abyssinica (L. fil.) Cass. — Adv. casual - Gran Sasso (Tammaro 1983c).

Rudbeckia laciniata L. — N. Amer. - naturalized along the coast of Pescara (Tammaro & Pirone 1979).

Helianthus annuus L. — S. Amer. - naturalized.

Helianthus rigidus (Cass.) Desf. — N. Amer. - naturalized.

Helianthus tuberosus L. — N. Amer. - naturalized.

Zinnia elegans Jacq. — Mexico. According to Zodda (1953a, 1967) it is adventitious at Giulianova and Roseto.

Ambrosia maritima L. — coastal sands - NC.

Ambrosia coronopifolia Torr. & Gray — N. Amer. (Adv.) - coastal sands and arid uncultivated land, Teramo province (Zodda 1953, 1953a, 1969b, 1960, 1965b, 1967) and Pescara (Tammaro & al. 1980).

Xanthium spinosum L. — S. Amer. - Adv. nat. - arid uncultivated land - NC.

Xanthium strumarium L. — arid uncultivated land, ruderal environments - NC.

Xanthium italicum Moretti — arid uncultivated land, nitrophilous sandy coastal habitats - C.

Galinsova parviflora Cav. — S. Amer. - ruderal environments, Barrea! (Conti &

Minutillo 1996).

Santolina marchii Arrigoni — ruderal environments, Arsita as “*S. chamaecyparissus* L.” (Abbate 1903, doubtfully Zodda 1967 from Crugnola), Majella (Arrigoni 1977).

Santolina virens Mill. — along the road between Sulmona and Pacentro near the crossroads for Cansano (Tammaro & Pirone 1980).

Anthemis cretica L. subsp. *columnae* (Ten.) Franzén — stony meadows at high altitude - NC.

Anthemis cretica subsp. *alpina* (L.) R. Fern. — Endem. Abr. - stony meadows at high altitude, Morrone from where it is regarded as endemic (Gussone 1826 as “*Santolina alpina*”, Tenore & Gussone 1842 as “*Santolina alpina*”, Fernandes 1975). Reported also from Gran Sasso and Majella (Tammaro 1986a) but to be checked.

Anthemis carpatica Willd. subsp. *petraea* (Ten.) R. Fern. — Endem. Abr. - pebbly meadows at high altitude, Morrone, Majella!, Intermesoli, Corno Piccolo [Gussone 1826 as “*A. petraea*”, Mauri & al. 1830 as “*A. petraea*”, Tenore & Gussone 1842 as “*A. petraea*”, Zodda 1953, 1967 as “*A. montana* subsp. *petraea* (Ten.)”, Fernandes 1975, Tammaro 1986a].

Anthemis maritima L. — sandy dunes, Torino di Sangro Marina (Pirone in press), Lido di Casalbordino! (Conti & al. in press).

Anthemis arvensis L. subsp. *arvensis* — fields - C.

Anthemis arvensis subsp. *incrassata* (Loisel) Nyman — uncultivated areas, arid pastures - C.

Anthemis arvensis subsp. *sphacelata* (C. Presl) R. Fern. — Endem. C. S. Ap.-Si - arid meadows, Duchessa (Steinberg 1952), Majella (Tammaro 1986a).

Anthemis cotula L. — uncultivated land, ruins, fields - C.

Anthemis mixta L. — pastures and uncultivated areas, Abruzzo (Pignatti 1982).

Anthemis altissima L. — fields, ruins - C.

Anthemis segetalis Ten. — fields, uncultivated land - C.

Anthemis tinctoria L. subsp. *tinctoria* — arid pastures, ruderal environments - C.

Anthemis tinctoria L. subsp. *australis* R. Fern. — arid pastures, ruderal environments - C.

Anthemis triumphetti (L.) DC. — arid slopes, open woods - NC.

Anacyclus radiatus Loisel. — arid uncultivated land, coast of Pescara (Tammaro & Pirone 1979).

Anacyclus tomentosus (All.) DC. — arid pastures and uncultivated areas, M. dei Fiori at Perticara and Pizzo della Cavata (Bertoloni 1833-54), coasts of Teramo, Pescara [Mauri & al. 1830 as "*Anthemis pubescens*", Cesati 1873 as "*A. clavatus*", Abbate 1903 as "*A. tomentosus* D. E.", Zodda 1953, 1963, 1967 as "*A. clavatus* var. *tomentosus* (DC.)"], erosion furrows of Atesa (Pirone 1995a), beach of Casalbordino!, Punta Aderci!, Marina di S. Salvo!

Achillea oxyloba (DC.) Sch. Bip. subsp. *barrelieri* (Ten.) F. Conti comb. & stat. nov. + basion.: *Anthemis barrelieri* Ten., Fl. Napol. 1: 50. 1811 + *Achillea barrelieri* (Ten.) Sch. Bip., Flora 38: 15. 1855. — Endem. C. S. Ap. - stony slopes, firm screes at high altitude. Since intermediate formae with *A. oxyloba* subsp. *mucronulata* have been observed (Bazzichelli 1967-69a, Conti 1995), a new nomenclatural combination is proposed allowing to insert the two taxa within the same species. This is in agreement with Heimerl (1884), Fiori in Fiori & Paoletti (1896-1908) and Bazzichelli (1967-69a), who had already inserted the two taxa in the same cycle although with different nomenclatural combinations. Also "*A. barrelieri* subsp. *barrelieri* f. *schouwii* (DC.) Bazzichelli" and "*A. barrelieri* subsp. *elegans* (Jan.) Bazzichelli" have been described demanding further systematic investigation. The latter species occurs only in Sibillini and M.ti della Laga

Achillea oxyloba (DC.) Sch. Bip. subsp. *mucronulata* (Bertol.) I. Richardson — Endem. C. S. Ap. - humid cliffs, montane and highmontane stony slopes - NC.

Achillea nana L. — Endem. W. Alps - Gran Sasso and Majella (Abbate 1903). Zodda (1953, 1967) reports it doubtfully from M. Corno and very likely reported erroneously.

Achillea ageratum L. — clayey uncultivated land - NC.

Achillea tomentosa L. — arid and stony slopes, Pizzo di Sevo, M. dei Fiori!, Valle del Vomano, Pizzo di Moscio, Majella (Tenore 1831-42, Zodda 1967).

Achillea setacea Waldst. & Kit. — arid pastures, Gran Sasso!, M. dei Fiori!, Teramo, Majella!, Pizzoli [Mauri & al. 1830, Tenore 1831-42, Abbate 1903, Zodda 1953, 1957 as "*A. millefolium* var. *setacea* (W. & K.) Fiori", Barbagallo & Guglielmo 1975b, Tammaro 1986a], Parco Nazionale d'Abruzzo! [Anzalone & Bazzichelli 1960 as "*A. millefolium* var. *setacea* (W. & K.)"], Simbruini (Veri 1988), Velino (Lucchese & Lattanzi 1991, Petriccione 1993), Sirente (Guarrera & Tammaro 1994).

Achillea asplenifolia Vent. — Gole di Popoli (Tammaro 1971a). According to Pignatti (1982) it does not occur in Italy.

Achillea collina Becker ex Rchb. — pastures - NC.

Achillea millefolium L. — pastures - C.

Achillea stricta Schleich. — rich pastures, Gran Sasso (Tammaro 1995) at Arapietra and Pietracamela at Calderotto, M.ti della Laga at Bosco Martese [Zodda 1953, 1967 as

"*A. millefolium* var. *stricta* (Schleicher)"]].

Achillea nobilis L. — arid pastures, M. dei Fiori (Mauri & al. 1830), Morrone near Salle (Tenore & Gussone 1842), Caramanico (Cesati 1873), Gran Sasso, M.ti della Laga (Grande 1914, Zodda 1967), M. Majellone at Prato della Corte (Tammaro 1986a from a specimen collected by Levier), Gole di Celano (Dinter 1996 as "*Chamaemelum nobile* All."), Pizzo Deta near Rendinara! A report from Villavallelonga (Anzalone & Bazzichelli 1960 as "*A. nobilis* s.l.") is doubtfully inserted in this taxon.

Achillea cfr. *virescens* (Fenzl.) Heimerl — arid meadows, Majella at Pianagrande where it is reported doubtfully (Feoli-Chiapella 1979-80).

Achillea tenorii Grande — Endem. C. S. Ap. - stony montane and highmontane pastures, Majella!, Gran Sasso and M.ti della Laga in Gorzano, Parco Nazionale d'Abruzzo! as "*A. punctata* Ten." and as "*A. nobilis* var. *punctata* (Ten.)" [Mauri & al. 1830, Tenore 1831-42, Tenore & Gussone 1842, Bertoloni 1833-54, Fiori 1907, Anzalone & Bazzichelli 1960, Furrer & Furnari 1960, Zodda 1942, 1967, Conti 1995], Velino (Luccheri & Lattanzi 1991).

Achillea ligustica All. — arid slopes, M. dei Fiori (Bertoloni 1833-54), Caramanico Mts (Cesati 1873). Not confirmed recently.

Otanthus maritimus (L.) Hoffm. & Link — sandy coastal habitats, coasts of Pescara (Mauri & al. 1830 as "*Santolina maritima* Willd.", Tenore 1831) where it has now disappeared (Tammaro & Pirone 1979), at Vibrata below Tortoreto (Bertoloni 1833-54 as "*Diotis candidissima*" Desf.), Giulianova and Roseto (Zodda 1953 as "*Diotis maritima*"). Zodda himself adds that the species seemed disappeared in Teramo province and it is to be considered as extinct along the whole coast of Abruzzo since it has not been found again (Pirone & Conti 1996).

Matricaria recutita L. — naturalized, fields, ruderal environments - C.

Matricaria discoidea DC. — N. E. Asiat. - naturalized, ruderal environments, places where animals gather, near Pescasseroli (Anzalone & Bazzichelli 1960), Lago Pantaniello near the refuge! (Conti 1995), Lago di Barrea!, M. Genzana in "Ovile Genzana"!, Campotosto!

Tripleurospermum perforatum (Mérat) Láinz — ruderal environments, near Scanno (Anzalone 1960 as "*M. inodora* L."), and Vallecchiara near Pescasseroli (Minuttillo in litt.).

Chrysanthemum segetum L. — fields - C.

Chrysanthemum coronarium L. — Steno-Medit. - naturalized, arid uncultivated land, ruderal environments, surroundings of Scanno (Gravina 1812), Roseto (Zodda 1967), Ortona!, low Valle del Trigno!

Argyranthemum frutescens (L.) Webb & Berth. (*Ch. frutescens* L.) — Canary Island - naturalized, arid uncultivated land, Pescara (Tammaro & Pirone 1979) and Atri (Pirone 1981a).

Coleostephus myconis (L.) Cass. — arid and stony pastures - NC.

Leucanthemum tridactylites (Fiori) Bazzich. — Endem. C. Ap. - stony slopes, Gran Sasso! (Abbate 1903 as "*L. graminifolium* Lam.", Zodda 1967 as "*Ch. atratum* var. *tridactylites* Fiori", Tammaro 1995), Parco Nazionale d'Abruzzo!, Morrone!, Majella!, M. dei Fiori [Tenore & Gussone 1842 as "*Pyrethrum graminifolium*", Grande 1904 as "*L. ceratophylloides* Nym. var. *tridactylites* Kern.", Anzalone & Bazzichelli 1960 as "*Chrysanthemum atratum* Jacq. *tridactylites* (Fiori)", Bazzichelli & Furnari 1970, Bazzichelli 1967-69b, Tammaro 1986a], Civitella Roveto (Veri 1988), Velino (Lucchese & Lattanzi 1991).

Leucanthemum vulgare Lam. (s.l.) (*L. praecox* Horvatic var. *praecox*) — meadows, glades - C.

Leucanthemum pallens (Gay) DC. — fields, meadows, uncultivated land - C.

Leucanthemum adustum (Koch) Greml. — montane pastures - NC.

Leucanthemum heterophyllum (Willd.) DC. — montane pastures - NC.

Leucanthemum ceratophylloides (All.) Nyman subsp. *tenuifolium* (Guss.) Bazzich. & Marchi — Endem. C. S. Ap. - montane stony slopes at high altitude, Salita di Pettorano, Morrone, Roccapia, Piano delle Cinquemiglia, Vallone Gentile, Majella, Montagne della Duchessa, Gran Sasso, M. dei Fiori [Gussone 1826 as "*Pyrethrum graminifolium*" and as "*P. ceratophylloides* b. *tenuifolium*", Tenore 1831-42 as "*Pyrethrum graminifolium*", Tenore & Gussone 1842 as "*Pyrethrum ceratophylloides*" and as "*Pyrethrum tenuifolium* Ten.", Mauri & al. 1830 as "*Pyrethrum tenuifolium* Ten." and as "*Pyrethrum ceratophylloides*", Bazzichelli 1967-69b, Pignatti 1982, Tammaro 1986a, Zodda 1953 as "*Chrysanthemum atratum* Jacq. var. *ceratophylloides* (All.)"], Parco Nazionale d'Abruzzo! (Gravina 1812 as "*Crysanthemum ceratophylloides*", Marchi 1972, Petriccione 1986, Conti 1995), Genzana!, Secine!

Leucanthemopsis alpina (L.) Heywood subsp. *alpina* — mobile screes at high altitude, Gran Sasso at Corno Grande (Abbate 1903 as "*Leucanthemum alpinum* Lam.", Zodda 1953 from Crugnola as "*Chrysanthemum alpinum* L."). Found also on Pizzo di Sevo, but in Latian territory (Tondi 1992).

Tanacetum parthenium (L.) Sch. Bip. — open woods and margins - C.

Tanacetum corymbosum (L.) Sch. Bip. var. *tenuifolium* (Willd.) Briq. & Cavill. — open woods and margins - C.

Tanacetum vulgare L. — arid uncultivated land - NC.

***Tanacetum balsamita* L.** (*Balsamita major* Desf.) — S. W. Asia - naturalized, reported generally from the Abruzzo (Fiori & Paoletti 1896-1908), Villetta Barrea, Civitella Alfedena, Camosciara (Anzalone & Bazzichelli 1960 as "*Chrysanthemum balsamita* L. *tanacetoides* Fiori", Viegi & al. 1990 from specimens collected by Anzalone) and Gole di Popoli (Tammaro 1971a).

***Artemisia vulgaris* L.** — hedges, ruderal environments - C - "var. *eriantha* Guss. ex Fiori" has also been reported.

***Artemisia verlotiorum* Lamotte** — E. Asia (Adv. nat.) - humid uncultivated land - C.

***Artemisia abrotanum* L.** — unknown origin, M. Pacile (Gravina 1812). Not found recently and to be confirmed.

***Artemisia eriantha* Ten.** — cliffs, stony slopes at high altitude, Gran Sasso!, Pizzo di Sevo, M. Scala and Facto [Mauri & al. 1830, Tenore 1831-42, Bertoloni 1833-54, Matteucci & Martelli 1894, Furrer & Furnari 1960 as "*A. genipi* Weber", Bazzichelli 1960, Zodda 1953 as "*A. genipi* var. *eriantha* (Ten.) Fiori", Tammaro 1985b as "*A. petrosa* (Baumg.) Jan. ex DC. subsp. *eriantha* (Ten.) Giac. & Pign.", Tammaro 1995] and Majella! (Tammaro 1986a).

***Artemisia absinthium* L.** — arid uncultivated land, ruderal environments - C.

***Artemisia alba* Turra** — arid and stony meadows - C.

Artemisia caerulescens* L. subsp. *caerulescens — retrodune depressions, erosion furrows on clayey and saline substratum, Pescara, Francavilla, Giulianova, Tortoreto, mouth of F. Vomano, Roseto, Silvi, Martinsicuro [Gussone 1826, Mauri & al. 1830, Tenore 1831-42, Bertoloni 1833-54, Cesati 1872, 1873, Rigo 1877, Abbate 1903, Anzalone 1955, Zodda 1953, 1967 as "*A. caerulescens* var. *latifolia* DC. and var. *palmata* (Lam.)", Tammaro & Pirone 1979, Pirone 1983, 1991, 1995b], between the mouth of T. Piomba and F. Saline, Città S. Angelo (Pirone 1983, 1988), Atessa! (Conti & al. 1990, Pirone 1995a), erosion furrows near Roseto (Conti & al. in pubbl).

***Artemisia gallica* Willd.** — Silvi (Bertoloni 1833-54). To be confirmed, doubtful for Italy (Pignatti 1982).

***Artemisia campestris* subsp. *glutinosa* (Ten.) Briq. & Cavill.** — arid uncultivated land - NC.

***Artemisia variabilis* Ten.** — Endem. C. S. It - arid and stony uncultivated land, from Tortoreto to Piomba and Vomano below M. Gualtieri [Bertoloni 1833-54, Zodda 1953, 1967 as "*A. campestris* L. var. *variabilis* (Ten.) Fiori", Gole di Celano near Fucino (Tammaro & Frizzi 1982, Frizzi & al. 1993). According to Pignatti (1982) the report from the F. Tronto would be erroneous.

***Tussilago farfara* L.** — humid clayey uncultivated land - CC.

Petasites hybridus (L.) P. Gaertn. & al. subsp. *hybridus* — watercourses - C.

Petasites albus (L.) Gaertn. — montane streams, Gran Sasso at Pietracamela (Abbate 1903 from Crugnola), Castel di Sangro, M.ti della Laga on Pizzo di Sevo (Tenore 1831-42) at Bosco Martese (Zodda 1953, 1967), Valle del Rio Castellano (Brilli-Cattarini & Gubellini 1986b) and Majella (Feoli & Feoli-Chiapella 1974, Tammaro 1986a).

Doronicum columnae Ten. — woods, shady stony slopes - CC.

Doronicum pardalianches L. — M. Corno, Arapietra and Campopericoli (Zodda 1953 from D'Amato and Crugnola). Pignatti (1982) reports the species doubtfully from Gran Sasso.

Senecio brachychaetus DC. — Endem. N. C. Ap. - montane pastures, M.ti della Laga on M. Pelone and Pizzo di Sevo [Bertoloni 1833-54 as "*Cineraria longifolia* Jacq.", Zodda 1953 from Orsini and Mauri as "*S. helenitis* Schinz & Thell var. *brachychaetus* (DC.)"], M. dei Fiori at Pianelle (Bertoloni op. cit.), Majella (Tammaro 1986a), Prati del Sirente (Guarrera & Tammaro 1994).

Senecio integrifolius (L.) Clairv. (s.l.) — montane and subalpine meadows, M. dei Fiori, Pizzo di Sevo!, Majella! (Mauri & al. 1830 as "*Cineraria campestris* Retz", Tenore 1831-42 as "*Cineraria campestris* Retz", Zodda 1953 from Tenore and Fiori as "var. *tenorei* Fiori", Tammaro 1986a), Velino (Fiori 1923-29, Montelucci 1958), M. Genzana (Pignatti 1982 from Cufodontis), Sirente (Guarrera & Tammaro 1994), Feudo Ugni!, M. Greco!, Vallone del Carapale!

Senecio capitatus (Wahlenb.) Steudel — montane pastures, Majella and Gran Sasso [Tenore 1831-42 as "*Cineraria capitata* Wahlenb. & Reichenb.", Zodda 1953, 1967 as "*S. integrifolius* var. *aurantiacus* (Less.)", Pignatti 1982].

Senecio cordatus Koch (incl. *S. samnitum* Huet) — humid small valleys in pastures or in clear areas of *Fagus sylvatica* woods - C.

Senecio apenninus Tausch — Endem. C. S. Ap. - margins of the *Fagus sylvatica* woods, Velino (Martelli 1904, Lucchese & Lattanzi 1991).

Senecio doronicum (L.) L. subsp. *doronicum* — stony pastures - C.

Senecio doronicum subsp. *gerardi* (Gren. & Godron) Nyman — arid slopes, Majella (Feoli-Chiapella 1979-80), Sirente (Veri & Tammaro 1980), Simbruini at Capistrello and Cappadocia (Veri 1988), Velino (Lucchese & Lattanzi 1991).

Senecio scopoli Hoppe & Hornsch. ex Bluff & Fingerh. — stony pastures - NC.

Senecio stabianus Lacaita — Endem? C. S. Ap. - humid woods - C.

Senecio ovatus (P. Gaertn., B. Mey. & Scherb.) Willd. (*S. fuchsii* C. C. Gmel.) — humid woods - NC.

Senecio cacaliaster Lam. — Valle del Rio Torto above Barrea, Morrone (Tenore & Gussone 1942), “ex sylvis montanis Praetutiorum ab Eq. Gussonio” (Bertoloni 1833-54) and to be confirmed from the M.ti Simbruini (Pignatti 1982).

Senecio bicolor (Willd.) Tod. subsp. *cineraria* (DC.) Chater (*S. cineraria* DC.) — It escaped from cultivation (Tammaro & Pirone 1979).

Senecio linifolius L. — doubtful exotic species, Bazzano (Viegi & al. 1990 from a specimen collected by Anzalone).

Senecio inaequidens DC. — S. Africa - Adv. nat., arid uncultivated land, ruderal environments, Bazzano, L'Aquila! (Anzalone 1976, Tammaro & Pirone 1980), Sirente (Guarrera & Tammaro 1994), Pescara!, Pescasseroli!, Gioia Vecchio!

Senecio erucifolius L. — uncultivated areas, pastures - NC.

Senecio jacobea L. — arid meadows - NC.

Senecio erraticus Bertol. subsp. *erraticus* — humid and shady environments - NC.

Senecio erraticus subsp. *barbareaefolius* (Wimm. & Grab.) Beger — Teramo province [Zodda 1953, 1967 as “*S. jacobea* var. *barbareaefolius* (Krock.)”], Gole di Popoli (Tammaro 1971a), coasts of Pescara (Tammaro & Pirone 1979), Velino (Petriccione 1993) and Simbruini (Veri 1988). According to Pignatti (1982) this species occurs only in N. Italy.

Senecio squalidus L. (*S. rupestris* Waldst. & Kit.) — cliffs slopes, screes - C - *S. rupestris* var. *calabricus* (Fiori) Pign. is reported from Majella (Tammaro 1986a).

Senecio vulgaris L. — ruderal environments, fields - CC.

Calendula officinalis L. — unknown origin, naturalized.

Calendula arvensis L. — arid uncultivated land, fields - C.

Arctium lappa L. — abandoned fields, uncultivated land, ruderal environments - C.

Arctium nemorosum Lej. — uncultivated land, glades - C.

Arctium minus (Hill) Bernh. — glades - C.

Stachelina dubia L. — Tagliacozzo (Tenore 1831-42), “ex montibus Praetutiorum”, Cavaceppo (Bertoloni 1833-54, Paolucci 1891 from Orsini), Gole del Vomano near S. Croce!

Carduus nutans L. subsp. *nutans* — uncultivated areas and arid pastures - C.

Carduus micropterus (Borbás) Teyber subsp. *perspinosus* (Fiori) Kazmi — Endem C. S. It. - arid pastures - C.

Carduus macrocephalus Desf. subsp. *macrocephalus* — uncultivated land, Rivisondoli (Pirone 1987c).

Carduus macrocephalus Desf. subsp. *inconstrictus* (O. Schwarz) Kazmi — arid uncultivated land - NC.

Carduus chrysacanthus Ten. subsp. *chrysacanthus* — Endem. C. S. Ap. - screes - C - “*C. chrysacanthus* var. *semiglaber* Fiori” has also been reported.

Carduus defloratus L. subsp. *tridentinus* (Evers) Lad. var. *barrellieri* (Bertol.) Briq. & Cavill. — Endem. Alps-Ap.? - meadows, Majella [Fiori 1923-29 as “*C. defloratus* var. *barrellieri* (Bert.)”] in Acquafredda di Rapino (Tammaro 1986a). According to Tammaro (1986a) the previous reports of *C. defloratus* from the Abruzzo comprise *C. carlinifolius* and they are unlikely.

Carduus carlinifolius Lam. — stony slopes over the wood limit and the *Fagus sylvatica* wood glades - C.

Carduus collinus Waldst. & Kit. — arid pastures, bed of Aventino between Casoli and Castelluccio, near Mulino (Tenore 1831-42 as “*C. microcephalus* Ten.”, Fiori 1927), Isola del Gran Sasso at S. Pietro [Zodda 1953 as “*C. candicans* W. & K. var. *collinus* (W. & K.) Fiori”], Capo Pescara (Pirone & al. 1997).

Carduus affinis Guss. subsp. *affinis* — Endem. C. S. Ap., stony pastures - C.

Carduus corymbosus Ten. — Endem. C. S. It-Si-Sa - arid uncultivated land, ruderal environments, Difesa di Pettorano (Gravina 1812), Majella (Mauri & al. 1830, Abbate 1903, Tammaro 1986a from a specimen collected by Groves), M. Corno, Arapietra, Pietracamela (Zodda 1953, 1967), erosion furrows of Atesa (Pirone 1995a).

Carduus acicularis Bertol. — arid uncultivated land, Pignatti (1982).

Carduus pycnocephalus L. subsp. *pycnocephalus* — ruderal environments - C.

Picnomon acarna (L.) Cass. — arid uncultivated land - NC.

Notobasis syriaca (L.) Cass. — arid uncultivated land - NC.

Ptilostemon strictus (Ten.) Greuter — open woods and margins - C.

Ptilostemon niveus (C. Presl) Greuter — Endem. S. Ap.-Si - Scanno and Piano delle Cinquemiglia [Tenore 1831-42 as “*Cirsium niveum* Spreng.”, Fiori 1923-29 as “*C. afrum* DC. *niveum* (Spr.)”], ex Aprutio (Greuter 1973 from a specimen probably of Tenore in RO) but according to Greuter (1973) it is to be excluded.

Cirsium italicum (Savi) DC. — arid uncultivated land - NC.

Cirsium vulgare (Savi) Ten. [*C. vulgare* subsp. *sylvaticum* (Tausch) Dostál] — arid uncultivated land, degraded woods - C.

Cirsium eriophorum (L.) Scop. subsp. *eriphorum* — Gran Sasso, Majella (Abbate 1903, Lusina 1949), Gole di Popoli (Tammaro 1971a) and Simbruini (Veri 1988). According to Pignatti (1982) the species does not occur in Abruzzo and, although several searches, I have never seen it. These reports have probably to be referred to the following taxa.

Cirsium tenoreanum Petr. — Endem. Ap. - montane pastures - C.

Cirsium morisianum Rchb. — Near endem. - montane pastures, Gran Sasso, M.ti della Laga [Zodda 1953, 1967 as "*C. eriophorum* var. *morisianum* (Rchb.)", Biondi & al. 1992].

Cirsium lobelii Ten. — Endem. C. S. Ap. - montane pastures - NC.

Cirsium arvense (L.) Scop. — fields, humid uncultivated land - C.

Cirsium palustre (L.) Scop. — humid fields, near Pietracamela! (Zodda 1953), Val Fondillo!, Camosciara!, Civitella Alfedena (Anzalone & Bazzichelli 1960, Conti 1995), Val Chiarino!, Lago di Campotosto!, Valle del Rio Arno!, Fonte Fra Clemente near Montereale!

Cirsium creticum (Lam.) d'Urv. subsp. *creticum* — riversides, ditches, its distribution is to be investigated.

Cirsium creticum subsp. *triumfetti* (Lacaita) Werner — riversides, ditches, Teramo province [Zodda 1953, 1967 as "*C. polyanthemum* Spr. var. *triumfetti* (Lac.)"], Gran Sasso (Tammaro 1983c), Orta! (Conti 1987), F. Tirino! (Corbetta & Pirone 1989, Buchwald 1995), Capo Pescara (Pirone & al. 1997), Marina di S. Salvo!

Cirsium acaule (L.) Scop. subsp. *acaule* — pastures, near Pietracamela, Arapietra (Zodda 1953, 1967), Majella (Gussone 1826 as "*Cnicus acaulis*", Mauri & al. 1830 as "*Cnicus acaulis*", Cesati 1873, Tammaro 1986a), Sirente (Groves 1880, Guarrera & Tammaro 1994), M.ti di Chiarano, Civitella Alfedena (Tenore 1831-42 as "*Cnicus acaulis* Will., Bassani 1992, Anzalone & Bazzichelli 1960), Velino (Lucchese & Lattanzi 1991), Secine! (Manzi 1992a), Voltigno (from a specimen collected by Pedrotti in CAME!), M. Genzana!, Lago Racollo!

Cirsium monspessulanum (L.) Hill. — uncultivated land, Arsita, Tortoreto (Abbate 1903, Zodda 1967).

Cirsium pannonicum (L. f.) Link — Selva di S. Nicola at the feet of M. Corno (Tenore 1831-42 as "*C. monspessulanum*", Grande 1920 from a specimen collected by Gussone). To be confirmed.

Cirsium montanum (Waldst. & Kit.) Spreng. — Pizzo di Sevo (Abbate 1903 as "*C. rivulare*"). The species is worthy of confirmation because it was not found recently.

Cirsium erisithales (Jacq.) Scop. — open woods, M.ti della Laga!, Pizzoli, M. Grande, Fano Adriano! (Mauri & al. 1830 as "*Cnicus erisithales*", Tenore 1831-42 as "*C. ochroleucum* All.", Bertoloni 1833-54 as "*Cnicus erisithales* L.", Abbate 1903, Zodda 1953, Tondi 1992).

Cirsium oleraceum (L.) Scop. — humid environments in gorges, Camosciara!, Villetta Barrea!, Civitella Alfedena, Forca d'Acero (Fiori 1923-29, 1927, Società Botanica Italiana 1953, Anzalone & Bazzichelli 1960, Conti 1995), Gole di Barrea!, Gran Sasso at the sources of Ruzzo! (Conti & al. in press), M.ti della Laga at Valle del T. Castellano near "Cascata Le Moricane"!

Cynara cardunculus L. subsp. *cardunculus* — arid uncultivated land, clayey erosion furrows. In the hills of Abruzzo (Tenore 1831-42 as "*C. spinosissima* Presl"), below Chieti and Turri, S. Valentino (Tenore & Gussone 1842 as "*C. horrida*", Cesati 1873 as "*C. spinosissima*"), mouth of Cerrano (Zodda 1967), Bucchianico, Valle del Piomba, Serramonacesca (Pirone 1981b), territory of Gessopalena (Manzi 1987), Cupello, Casoli!, Altino, Roccasalegna! (Manzi pers. comm.).

Cynara cardunculus subsp. *scolymus* (L.) Hayek — doubtful exotic species, Atri (Pirone 1981a).

Silybum marianum (L.) Gaertn. — uncultivated land, ruderal environments - C.

Tyrinnus leucographus (L.) Cass. — uncultivated land, ruderal environments, surroundings of Scanno (Gravina 1812 as "*Carduus leucographus*"), in the fields (Abbate 1903 as "*C. leucographus*").

Galactites tomentosa Moench — arid uncultivated land, ruderal environments - C.

Onopordum acanthium L. subsp. *acanthium* — uncultivated land - C.

Onopordum illyricum L. subsp. *illyricum* — uncultivated land - C.

Jurinea mollis (L.) Rchb. subsp. *mollis* [*J. mollis* subsp. *moschata* (Guss.) Nyman] — stony pastures, stony slopes - NC - Velino, Majella! (Mauri & al. 1830 as "*Carduus mollis* var. *moschatus*"), Morrone at Rocca Casale and Badia Sulmonese! (Tenore & Gussone 1842 as "*Carduus moschatus*", Pirone & Tammaro 1997), Teramo province without information about the locality [Zodda 1945 from a specimen collected by Quartapelle as "*J. mollis* var. *moschata* (DC.)"], Caramanico!, Fara S. Martino (Tammaro 1986a). f. *erectobracteata* F. Conti is the most widespread in Abruzzo (Conti 1998).

Crupina vulgaris Cass. — arid meadows - C.

Crupina crupinastrum (Moris) Vis. — arid meadows, Ortona dei Marsi! (Conti & Minutillo 1996), between Raiano and Goriano Sicoli (Pirone & Tammaro 1997).

Serratula tinctoria L. subsp. *tinctoria* — woods, humid meadows, Abruzzo, Roccaraso

meadows (Gravina 1812, Tenore 1831-42 as "*S. tinctoria*"), Quarti della Majella! (Tammaro 1986a), Marsica at Villavallelonga [Anzalone & Bazzichelli 1960 "sub *S. tinctoria* var. *pinnata* (Kit.) Fiori" from specimens collected by Grande], Quarto Grande near Pescocostanzo (Tammaro & Visca 1987), near Torricella Sicura and Bosco di Vallaspra near Atessa! (Conti & Pirone 1992).

Serratula cichoracea (L.) DC. subsp. *cichoracea* — garigue, S. Giovanni Lipioni in Coccavone (Conti & al. in press).

Serratula nudicaulis (L.) DC. — montane stony pastures, Velino, M. di Pizzoli (Tenore 1831-42 as "*S. cirsioides*", Lucchese & Lattanzi 1991), Sirente (Groves 1880), Gran Sasso! (Barbagallo & Guglielmo 1975b), between Sperone and Colle Biferno! (Conti 1995), Pizzo Marcello!, Serra Lunga between Collelongo and Prati di S. Elia!

Serratula lycopifolia (Vill.) Kern. — Altopiano delle Rocche near Rocca di Cambio! (Conti & Manzi 1997b). This locality is the only one known for Italy.

Mantisalca duriae (Spach) Briq. & Cavill. — arid pastures, mouth of F. Tronto, along Vomano at Monteverde, near Cesacastina (Zodda 1953, 1965a, 1965b, 1967 as "*Centaurea salmantica* L. var. *duriae* Fiori"), Grotta Imposta!, Casino Masciarelli near F. Aventino! (Conti & Manzi 1996), near Lentella!, Punta Aderci! Probably the site of Aventino near Torre di Prato is to be referred to this taxon (Tenore 1831 as "*C. salmantica*").

Centaurea centaurium L. — Endem. C.? S. Ap. - surroundings of Scanno (Gravina 1812), Majella, Morrone (Tenore 1831-42) and Parco Nazionale d'Abruzzo (Rovesti & Rovesti 1934) but according to Anzalone & Bazzichelli (1959-60) its occurrence there is unlikely.

Centaurea rupestris L. subsp. *rupestris* — cliffs - NC.

Centaurea rupestris L. subsp. *ceratophylla* (Ten.) Gugler — Endem. C. Ap. - cliffs - NC.

Centaurea scabiosa L. — arid pastures, margins of woods - NC.

Centaurea spinosociliata Seenus subsp. *tommasinii* (A. Kern.) Dostál (*C. tommasinii* Kern.) — Endem. Adriatic coast - coast of Roseto (Zodda 1953 from Di Giuseppe as "*C. paniculata*") but according to Zodda it is reported erroneously, Giulianova [Chiosi 1975 from a specimen collected by Marchesetti as "*C. paniculata* L. var. *maculosa* (Lam.)"]. The report from Roseto could refer to *C. tommasinii* (Pignatti 1982) but it is no longer recorded and probably extinct.

Centaurea scannensis (Anzal.) Pignatti — Endem. Gole del Sagittario - cliffs, Gole del Sagittario! (Anzalone 1961, Conti 1995).

Centaurea ambigua Guss. subsp. *ambigua* — Endem. Ap. - arid and stony pastures, stony slopes - C - var. *ascendens* Fiori, var. *intermedia* Fiori, var. *melanocephala* Fiori, f. *ambigua*, f. *virescens* (Ten.) Pign. and f. *incana* (Ten.) Pign. have been reported

(Zodda 1967, Tammaro 1986a) but they need further investigation.

Centaurea ambigua subsp. *laciniata* (Guss.) Arcang. — Endem. Ap. - arid and stony pastures, stony slopes - NC.

Centaurea ambigua subsp. *nigra* (Fiori) Pignatti — Endem. C-Ap. - arid and stony pastures, stony slopes - NC — it replaces the previous subsp. at higher altitudes.

Centaurea tenoreana Willk. — Endem. Abr. - pastures and stony slopes from 600 to 1800 m, Morrone and Majella at Grotta Caprara, Fonte Carlese, Valle dell'Orfento, S. Eufemia at Majella, from Fara S. Martino to Vallone di Taranta Peligna!, Valle di Selva Romana, Scrimacavallo, Porrara, M. ti Pizzi in M. S. Domenico! and M. di Mezzo! (Mauri & al. 1830 as "*C. incana* Ten.", Tenore 1811-38, 1831-42 as "*C. incana* Ten.", Tenore & Gussone 1842 as "*C. incana* Ten.", Rigo 1877 as "*C. incana* Ten.", Levier 1880, Feoli-Chiapella 1979-80, Tammaro 1986a, Tessitore & al. 1993, Conti & Manzi 1996), between Campo di Giove and Guado di Coccia (Galetti pers. comm.), M. Secine! *F. angustisecta* Fiori is reported from Morrone (Fiori & Béguinot 1911).

Centaurea deusta Ten. subsp. *deusta* — Near endem. - arid meadows - C.

Centaurea deusta subsp. *splendens* (Arcang.) Matthas & Pignatti [*C. deusta* subsp. *concolor* (DC.) Matthas & Pignatti] — Near endem. - arid meadows - C.

Centaurea jacea L. (s.l.) [incl. *C. pannonica* (Heuffel) Simonk.; *C. bracteata* Scop.] — arid pastures - C.

Centaurea pratensis Thuill. — glades, Bosco Martese [Zodda 1967 as "*C. jacea* var. *pratensis* (Thuill.)"], glades of Bocca di Valle (Tammaro 1986a).

Centaurea nigrescens Willd. subsp. *nigrescens* (*C. nigrescens* subsp. *ramosa* Gugler) — meadows, uncultivated land - PC - *C. nigrescens* subsp. *transalpina* is recorded for Sirente (Groves 1880 as "*C. transalpina* DC." and as "*C. amara* L."), Marsica as "*C. jacea* var. *dubia* (Suter)" (Anzalone & Bazzichelli 1960), Teramo province at Colle Pilone and Crognaleto at Valle Vaccaro [Zodda 1967 as "*C. jacea* var. *dubia* (Suter)"]. According to Barbo e Cela Renzoni (1997), subsp. *transalpina* occurs only on the Alpine range.

Centaurea nigrescens subsp. *neapolitana* (Boiss.) Dostál — Endem. C.S. It - meadows, uncultivated land, Teramo province [Zodda 1967 as "*C. jacea* var. *neapolitana* (Boiss.)"], Pretoro in Majella (Feoli-Chiapella 1979-80), Sirente (Guarrera & Tammaro 1994).

Centaurea nigrescens subsp. *pinnatifida* (Fiori) Dostál — Endem. N. C. It - meadows, Bosco Martese (Zodda 1967 as "*C. jacea* var. *pinnatifida* Fiori").

Centaurea nigra L. — montane pastures, Pizzoli (Mauri & al. 1830), Teramo province at Paranesi di Rocca S. Maria, M. la Spillara and M. Ceraso [Zodda 1967 as "*C. jacea*

var. *nigra* (L.)"], Canistro and Balsorano (Veri 1988), Voltigno! (Conti & al. in press).

Centaurea stenolepis Kern. subsp. *stenolepis* — glades, margins of woods, Pietracamela (Gussone 1826 as "*C. austriaca* Will.", Mauri & al. 1830, Tenore 1831-42 as "*C. phrygia* L."), Bosco Martese, Cerqueto di Fano Adriano, Montorio al Vomano, Pietracamela, Tossicia [Zodda 1953, 1959b, 1967 as "*C. phrygia* var. *stenolepis* (Kern.)"], Val Chiarino!

Centaurea montana L. — M. Corno (Bertoloni 1833-54), Pizzo Cefalone (Matteucci & Martelli 1894). Not found recently and to be confirmed.

Centaurea triumfetti All. subsp. *triumfetti* — arid pastures - C.

Centaurea triumfetti subsp. *variegata* (Lam.) Dostál — arid pastures - NC.

Centaurea triumfetti subsp. *cana* (Sm.) Dostál (*C. cana* Sm.) — Oroph. N. E. Medit. (Amphiadriat.) — stony slopes at high altitude, "In Aprutii montibus" (Tenore 1811-38, 1831-42), Majella! (Feoli-Chiapella 1979-80, Tammaro 1986a), Gran Sasso (Tammaro 1995).

Centaurea cyanus L. — fields - NC.

Centaurea sphaerocephala L. — sandy uncultivated land of coast - "Luoghi sabbiosi della Valle del Mavone" (Crugnola 1900 da Petrilli) where it deserves confirmation and S. Salvo Marina! (Conti & al. in press).

Centaurea napifolia L. — meadows along the roads, S. Salvo along Trignina! (Conti & al. in press).

Centaurea calcitrapa L. — arid uncultivated land - C.

Centaurea melitensis L. — Caramanico (Cesati 1873) where it is to be confirmed.

Centaurea solstitialis L. subsp. *solstitialis* — ruderal environments - C.

Centaurea diluta Aiton — fields and arid uncultivated land, naturalized between Casoli and Gessopalena! (Conti & Manzi 1997a).

Centaurea nicaeensis All. — road slopes, S. Salvo along Trignina! (Conti & al. in press).

Carthamus lanatus L. subsp. *lanatus* — uncultivated land, ruderal environments - C.

Cnicus benedictus L. — near Teramo (Zodda 1953 from D'Alessandro) where it is not confirmed (Zodda 1967).

Cardopatum corymbosum (L.) Pers. — clayey arid uncultivated land, Serramonacesca (Pirone 1981b), near S. Valentino (Tammaro 1986a from a specimen collected by

Groves), erosion furrows of Gessopalena, Roccascalegna! (Biondi & al. 1990, Guarrera & al. 1995), erosion furrows of Atessa! (Pirone 1995a), Casoli! (Manzi pers. comm.).

Xeranthemum inapertum (L.) Mill. — arid meadows - C.

Xeranthemum annuum L. — naturalized, Teramo province at Castiglione della Valle, rare (Crugnola 1900, Zodda 1953 from specimens collected by Petrilli) and to be confirmed. The report from the Val Canneto (Tenore 1831-42, Anzalone & Bazzichelli 1960) reported in Viegi & al. (1990) for the Abruzzo is to be referred to Latium.

Xeranthemum cylindraceum Sm. — arid meadows - C.

Carlina corymbosa L. var. *corymbosa* — arid pastures - C.

Carlina lanata L. — arid meadows and garigue - NC.

Carlina vulgaris L. subsp. *vulgaris* — arid pastures - C.

Carlina vulgaris subsp. *spinosa* (Velen.) Vandas — arid pastures, Campo di Giove (Meusel & Kästner 1994).

Carlina acaulis L. subsp. *caulescens* (Lam.) Schübler & Martens [*C. acaulis* subsp. *simplex* (Waldst. & Kit.) Nyman] — arid pastures - C.

Carlina acanthifolia All. subsp. *acanthifolia* — arid pastures - C.

Atractylis gummifera L. — Piano delle Cinquemiglia (Gravina 1812). Not found recently and to be confirmed.

Echinops sphaerocephalus L. subsp. *sphaerocephalus* — arid pastures and uncultivated areas - C.

Echinops sphaerocephalus subsp. *albidus* (Boiss. & Spruner) Kozuharov — stony pastures and uncultivated areas, Majella at Palena, S. Eufemia, Roccamaramano, P.sso S. Leonardo (Tammaro 1986a).

Echinops siculus Strobl. — Endem. C. S. Ap.-Si — open woods and meadows - NC.

Echinops ritro L. subsp. *ritro* — arid pastures, stony slopes - NC.

Scolymus maculatus L. — arid pastures - NC.

Scolymus hispanicus L. — arid uncultivated land - NC.

Catananche lutea L. subsp. *lutea* — arid pastures, Roccascalegna! (Conti & Manzi 1996) and Casoli (Manzi pers. comm.).

Cichorium intybus L. (s.l.) — arid uncultivated land - CC.

Cichorium endivia L. subsp. *endivia* — naturalized.

Cichorium endivia subsp. *pumilum* (Jacq.) Coutinho (*C. pumilum* Jacq.) — clayey fields near Lama (Abbate 1903 as "*C. divaricatum* Sch."). Not found recently and to be confirmed.

Lapsana communis L. subsp. *communis* — open woods, fields - C.

Tolpis umbellata Bertol. — surroundings of Scanno (Gravina 1812 as "*Crepis barbata*"). Not found recently and to be confirmed.

Tolpis virgata (Desf.) Bertol. subsp. *grandiflora* (Ten.) Pignatti — Endem. C. S. It-Si - uncultivated land, arid fields - NC.

Hyoseris scabra L. — arid meadows, Valle dell'Orta! (Conti & Manzi 1996), Corvara!, Pescosansonesco!, Punta Aderci! (Conti & al. in press).

Hyoseris radiata L. (s.l.) — arid uncultivated land, walls - NC.

Rhagadiolus stellatus (L.) Gaertn. (incl. *Rh. edulis* Gaertn.) — uncultivated areas, arid pastures, fields, hedges - C.

Hedypnois rhagadioloides (L.) F. W. Schmidt — arid uncultivated areas and pastures - NC - "var. *monspeliensis* (W.)" was found at Teramo, Giulianova, Roseto (Zodda 1953 from a specimen collected by Petrilli).

Hedypnois cretica (L.) Dum.-Courset — uncultivated areas, arid pastures - NC.

Geropogon glaber L. — uncultivated areas, arid pastures, Gran Sasso at Tossicia (Crugnola 1900, Zodda 1967).

Tragopogon pratensis L. subsp. *pratensis* — meadows - NC.

Tragopogon pratensis subsp. *minor* (Mill.) Hartm. — uncultivated land - Velino (Petriccione 1993).

Tragopogon pratensis subsp. *orientalis* (L.) Celak. — glades - NC.

Tragopogon dubius Scop. — distribution to be studied.

Tragopogon porrifolius L. subsp. *porrifolius* — arid meadows - NC.

Tragopogon porrifolius subsp. *australis* (Jord.) Nyman — arid meadows - NC.

Tragopogon eriospermus Ten. — Piano delle Cinquemiglia and Piano di Rivisondoli (Tenore & Gussone 1842), Majella, Morrone (Cesati 1873, Tammaro 1986a),

Teramo province [Zodda 1953, 1967 as "*T. porrifolius* var. *eriospermus* (Ten.) Fiori"], Sirente (Guarrera & Tammaro 1994). Taxon doubtfully autonomous.

Tragopogon crocifolius L. — arid meadows - NC.

Tragopogon samaritani Heldr. & Sart. ex Boiss. — arid meadows - NC.

Scorzonera purpurea L. subsp. *purpurea* — M. dei Fiori (Bertoloni 1833-54, Paolucci 1891 from Scagnetti) and Gran Sasso on M. Cristo (Barbagallo & Guglielmo 1975b). Its recent confirmation for the Apennines umbro-marchigiano and marchigiano-abruzzese in the area of Marche (Brilli-Cattarini & Gubellini 1987c) make likely also the localities of Abruzzo.

Scorzonera rosea Waldst. & Kit. — M. dei Fiori (Bertoloni 1833-54, Paolucci 1891 as "*S. purpurea*"). Not confirmed recently.

Scorzonera humilis L. — humid meadows, M. dei Fiori and Gran Sasso at Pietracamela (Paolucci 1891 from Orsini, Abbate 1903, Zodda 1953, 1967 as "*S. humilis* var. *plantaginea*"), Marcolano (Dinter 1996).

Scorzonera aristata Ramond — pastures at high altitude, Pizzo di Sevo (Lüdi 1943).

Scorzonera hispanica L. — Pizzoli (Bertoloni 1833-54). According to Pignatti (1982) many reports from Italian mainland are to be referred to *S. glastifolia*.

Scorzonera glastifolia Willd. — arid meadows - NC.

Scorzonera austriaca Willd. (s.l.) — stony pastures, M. Rosa Pinnola near Bisegna! (Conti 1995).

Scorzonera hirsuta L. — arid meadows. Generally reported from the Abruzzo (Pignatti 1982), and at Lentella! (Conti & Manzi 1996).

Scorzonera cana (C. A. Mey.) Griseb. (*Podospermum canum* C. A. Meyer) — arid pastures - C.

Scorzonera laciniata L. [*P. laciniatum* (L.) DC.] — pastures - NC.

Scorzonera resedifolia L. [*P. resedifolium* (L.) DC. — uncultivated land, ruins, Salviano (Tenore 1831-42 as "*S. octangularis* Presl var. *decumbens* Guss."), Gioia Vecchio (Vaccari & Wilczek 1940 as "*P. calcitrapifolium* DC."). Anzalone & Bazzichelli (1959-60) are doubtful about the real occurrence of the species.

Hypochaeris robertia Fiori [*Robertia taraxacoides* (Loisel) DC.] — Endem. It - screes, stony slopes - C.

Hypochaeris glabra L. — arid uncultivated areas, pastures - NC.

Hypochaeris radicata L. — uncultivated land, arid meadows - NC. "subsp. *neapolitana* (DC.) Guadagno" is reported.

Hypochaeris cretensis (L.) Bory & Chaub. — arid pastures - C.

Hypochaeris achyrophorus L. — ruderal environments, arid uncultivated land - C.

Urospermum picroides (L.) F. W. Schmidt — uncultivated land, ruderal environments - C.

Urospermum dalechampii (L.) Scop. ex F. W. Schmidt — arid fields and uncultivated land - C.

Leontodon autumnalis L. (s.l.) — humid meadows, Pietralta (Mauri & al. 1830 as "*Apargia autumnalis*"), Ovindoli!, Rocca di Mezzo! (Tenore 1831-42 as "*Apargia autumnalis*"), Villavallelonga (Anzalone & Bazzichelli 1960), Gran Sasso! (Furrer & Furnari 1960, Zodda 1967), Campotosto!

Leontodon autumnalis subsp. *autumnalis* — humid meadows, Piano delle Cinquemiglia (Tammaro & Visca 1987), Lago Pantaniello! (Conti & Minutillo 1996).

Leontodon autumnalis subsp. *pratensis* (Link) Arcang. — rich meadows, Orfento, Fondo di Femmina Morta (Tammaro 1986a) and Gran Sasso (Tammaro 1983c).

Leontodon montanus Lam. subsp. *montanus* — Gran Sasso!, Velino, Majella! [Mauri & al. 1830 as "*A. taraxaci*", Tenore 1831-42 as "*Apargia taraxaci*", Zodda 1953, 1967 as "*L. autumnalis* var. *taraxaci* (Nym.)" and as "*L. montanus* var. *breviscapus* Cavara & Grande", Tammaro 1986a as "*L. montanus* var. *breviscapus* Cavara & Grande", Petriccione 1993 as "*L. montanus* subsp. *melanotrichus*", Tammaro 1995 as "*L. montanus* subsp. *melanotrichus* (Vierh.) Widder"], M. Greco! (Tenore & Gussone 1842 as "*Apargia aurantiaca*"), M. Argatone-Serra della Terratta!, Sirente (Tammaro & al. 1974). "Var. *breviscapus* Cavara & Grande" is reported.

Leontodon helveticus Méral em. Widder — Gran Sasso, Majella, Velino and M. Greco (Tenore 1831-42, Tenore & Gussone 1842 as "*Apargia alpina* and *A. aurantiaca* Kit.", Levier 1880, Villani 1921, Zodda 1953 as "*L. pyrenaicus* Gouan"). According to Pignatti (1982) the report from Gran Sasso is probably erroneous, the author does not give his opinion about the other localities but considering the species distribution (Alps and N. Apennines) the same conclusion can be drawn.

Leontodon crispus Vill. subsp. *asper* (Waldst. & Kit.) Rohlena — stony pastures - C - The reports as "subsp. *crispus*" are to be referred to this taxon.

Leontodon hispidus L. subsp. *hispidus* — meadows - C.

Leontodon hirtus L. — arid pastures - C.

Leontodon intermedius Huter, Porta & Rigo — Endem. C. S. It - cliffs, Montorio al Vomano at Cusciano, Cortino and Pietracamela (Zodda 1957 as "*L. crispus* var. *intermedius* HPR.").

Leontodon cichoraceus (Ten.) Sanguin. — arid pastures, glades - C.

Leontodon leysseri (Wallr.) Beck — pastures - NC.

Leontodon tuberosus L. — pastures and glades - C.

Picris hieracioides L. subsp. *hieracioides* — arid uncultivated land, hedges - C.

Picris hieracioides L. subsp. *spinulosa* (Bertol. ex Guss.) Arcang. — arid uncultivated areas, pastures - NC.

Picris hieracioides L. subsp. *grandiflora* (Ten.) Arcang. — uncultivated land - NC.

Picris echioides L. — fields, arid pastures - C.

Andryala integrifolia L. — arid uncultivated land, Pescara (Pirone & al. in press).

Chondrilla juncea L. — arid uncultivated land and meadows - C.

Chondrilla chondrilloides (Ard.) H. Karst. — Endem. E. Alps? - between Gioia dei Marsi and Gioia Vecchio (Vaccari & Wilczek 1940 as "*Willemetia prenanthoides* Gr.G."). Anzalone & Bazzichelli (1959-60) do not confirm it; they think it could be confused with the previous species.

Taraxacum glaciale Hand-Mazz. — Endem. C-Ap. - snowbed meadows, M.ti della Laga on the top of M. Gorzano, Pizzo di Sevo, Morrone, Majella!, Gran Sasso [Handel-Mazzetti 1907, Zodda 1953 as "*T. officinale* for. *glaciale* (Host) Fiori", Tammaro 1986a, personal observations from specimens in FI!], M. Meta!, Pratillo-Villavallelonga! (Conti 1995), Lago Vivo!, small lake below M. Tartaro!

Taraxacum megalorrhizon (Forssk.) Hand.-Mazz. — anthropized environments - NC.

Taraxacum obovatum (Willd.) DC. — meadows, ruderal environments - NC.

Taraxacum palustre (Lyons) Symons — marshy environments, near Teramo [Zodda 1953 as "*T. officinale* var. *palustre* (Symons) Fiori"], Pantano di Scanno (Vaccari & Wilczek 1940 as "*T. paludosum* Kern.", Avena & Rosati 1973).

Taraxacum apenninum (Ten.) Ten. — Endem? Ap. - montane pastures - C - Many populations belonging to sect. *alpinum* and needing further investigation, are doubtfully referred to this taxon. According to Grande (1922) *T. apenninum* is the name to be used for *T. glaciale*.

Taraxacum laevigatum (Willd.) DC. — ruderal environments, arid pastures - C.

Taraxacum officinale Weber (s.l.) — ruderal environments, fertilized meadows - CC.

Sonchus arvensis L. subsp. *arvensis* — uncultivated land, fields - NC.

Sonchus maritimus L. subsp. *maritimus* — retrodune depressions, coasts “dal Tronto a Scerne di Pineto”, Silvi [Tenore 1831-42, Zodda 1953, 1965b, 1967 as “*S. arvensis* var. *maritimus* (L.)”], between the mouth of F. Saline and T. Piomba (Pirone 1988, 1991), mouth of F. Sangro (Géhu & al. 1984, Tammaro & al. 1996), Marina di Vasto! (Conti & Stanisci 1990), Fossacesia Marina (Pirone 1995b).

Sonchus asper (L.) Hill subsp. *asper* — ruderal environments - C.

Sonchus asper subsp. *nymani* (Tineo & Guss.) Hegi — arid uncultivated land, Gran Sasso at Pietracamela and M.ti della Laga at M. Bilanciere [Zodda 1953, 1967 as “*S. oleraceus* var. *glaucescens* (Jord.)”], erosion furrows of Gessopalena (Biondi & al. 1990 as “*S. glaucescens*”).

Sonchus oleraceus L. — ruderal environments - C.

Sonchus tenerrimus L. — walls - NC.

Lactuca viminea (L.) J. & C. Presl. subsp. *viminea* — arid and stony slopes - C.

Lactuca viminea subsp. *chondrilliflora* (Boreau) Bonnier — arid and stony slopes - C.

Lactuca serriola L. — naturalized, uncultivated land - C.

Lactuca sativa L. — doubtful origin, naturalized.

Lactuca saligna L. — uncultivated land - NC.

Lactuca virosa L. — uncultivated land - NC.

Lactuca perennis L. — stony slopes - C.

Lactuca tenerrima Pourr. — “Abruzzo Ultra, Distretto di Sulmona” (Tenore 1831-42). Not confirmed recently.

Mycelis muralis (L.) Dumort. — cool glades - C.

Reichardia picroides (L.) Roth — thermophilous stony slopes, arid uncultivated land, walls. “Var. *integrifolia* (Moench) Kuntze; var. *cupaniana* (Nicotra) Fiori; var. *maritima* (Boiss.) Fiori” are reported.

Aetheorhiza bulbosa (L.) Cass. subsp. *bulbosa* — thermophilous stony slopes, sandy uncultivated land - C.

Crepis paludosa (L.) Moench — humid meadows, Campotosto (Cecchettani 1907, Marchetti 1936), Laghetto Fonte all’acqua, Gole di Celano (Guarrera & Tammaro 1994).

Crepis pygmaea L. subsp. *pygmaea* — pebbly areas, M. Scala near Pizzoli, Sirente,

Velino, Gran Sasso! and Cefalone, Majella!, Parco Nazionale d'Abruzzo! (Gussone 1826 as "*H. prunellaefolium*", Tenore 1831-42 as "*Hieracium prunellaefolium* Gouan", Tenore & Gussone 1842 as "*Hieracium prunellaefolium* Gouan", Bertoloni 1833-54 as "*Hieracium prunellaefolium* Gouan", Groves 1880, Montelucci 1958, Bazzichelli 1960, Zodda 1967, Bazzichelli & Furnari 1970, Avena & Blasi 1974, Petriccione 1986, 1993, Tammaro 1986a as "*C. pygmaea* var. *incanescens* Froel", 1995, Conti 1995, Baltisberger & al. 1996).

Crepis aurea (L.) Cass. subsp. *glabrescens* (Caruel) Arcang. — meadows at high altitude - C.

Crepis leontodontoides All. — Campotosto peat-bog (Cecchettani 1907), Majella (Tammaro 1986a from a specimen collected by Tenore).

Crepis biennis L. — meadows, Parco Nazionale d'Abruzzo (Tenore & Gussone 1842, Anzalone & Bazzichelli 1960 as "*C. biennis* var. *runcinata* Koch"), Teramo province (Zodda 1953, 1967 as "var. *bannatica* Koch, var. *dentata* Koch, var. *runcinata* Koch"), Majella (Tammaro 1986a), Velino (Petriccione 1993), Sirente (Guarrera & Tammaro 1994).

Crepis lacera Ten. — Endem. Ap. - arid and stony pastures - C.

Crepis tectorum L. subsp. *tectorum* — arid uncultivated land, coasts of Pescara (Tammaro & Pirone 1979), Majella (Tammaro 1986a).

Crepis pulchra L. — ruderal environments - NC.

Crepis foetida L. (s.l.) — arid uncultivated land, Abruzzo (Gussone 1826), Morrone at Avellanito, below Turri (Tenore & Gussone 1842), Villavallelonga (Anzalone & Bazzichelli 1960), Teramo province, Gran Sasso (Zodda 1959c, 1960a, 1963, 1967, Tammaro 1995), Fontecchio (Tammaro & Pogliani 1977), near S. Valentino and Caramanico (Cesati 1873 as "*Barkhausia foetida* DC.", Tammaro 1986a from a specimen collected by Levier). Subsp. *foetida* is reported from Sirente (Guarrera & Tammaro 1994).

Crepis sancta (L.) Bab. s.l. [incl. subsp. *bifida* (Koch) Thell.] — Euri-Medit. - Adv. nat. - arid uncultivated land, ruderal environments - C - subsp. *bifida* at Gioia Vecchio (Vaccari & Wilczek 1940 as "*Pterotheca bifida* F. & M.", Anzalone & Bazzichelli 1960 as "*Lagoseris bifida* Koch"), Velino (Petriccione 1993). According to them probably it has been reported because it has been confused with *C. sancta*.

Crepis dioscoridis L. — surroundings of Scanno (Gravina 1812). Not found recently and to be confirmed.

Crepis zacintha (L.) Bab. — fields, uncultivated land, arid pastures - NC.

Crepis capillaris (L.) Wallr. — uncultivated land, fields, Majella (Cesati 1873), Teramo province (Abbate 1903 as "*C. polymorpha* Wallr."), Gran Sasso (Barbagallo &

Guglielmo 1975a). According to Pignatti (1982) these reports, not confirmed recently, are probably erroneous, but found in Valle Iannanghera! (Conti & Minutillo 1996).

Crepis neglecta L. subsp. *neglecta* — fields, arid uncultivated land - C.

Crepis corymbosa Ten. — uncultivated land, ruderal environments - NC.

Crepis vesicaria L. subsp. *vesicaria* — arid uncultivated land - C.

Crepis setosa Haller f. — fields, uncultivated land - C.

Prenanthes purpurea L. — *Fagus sylvatica* woods - C.

Hieracium staticifolium All. — stony pastures, M. Tremogge near Castel del Monte (Tammaro & Frizzi 1982).

Hieracium pilosella L. — arid pastures - CC.

× *Hieracium hypeuryum* N. P. — Velino (Fiori 1923-29).

Hieracium saussureoides Arvet-Touvet — Bosco Martese, Colle lungo dell'Orso, Pizzo di Moscio, M. Farina, M. Tre Croci (Zodda 1962b, 1967 as "*H. tardans* NP.").

Hieracium pseudopilosella Ten. — arid pastures - NC.

Hieracium macranthum (Ten.) Zahn (*H. hoppeanum* Schult. subsp. *macranthum*) - NC.

Hieracium leucopsilon Arv.-Touv. — Vado di Coccia (Tammaro 1986a from a specimen collected by Guadagno). To be confirmed.

Hieracium hoppeanum Schult. subsp. *pilisquamum* Naeg. & Peter — arid pastures, M. Gorzano, M. di Campi, Rocca S. Maria [Zodda 1967 as "*H. pilosella* var. *hoppeanum* (Schult.) and var. *macranthum* Ten."], Majella (Feoli-Chiapella 1982), Velino (Lucchese & Lattanzi 1991), Sirente (Guarrera & Tammaro 1994 as "*H. hoppeanum* s.l."), M. Rosa Pinnola! (Conti & Minutillo 1996).

Hieracium lactucella Wallr. subsp. *lactucella* — arid pastures - NC.

Hieracium lactucella Wallr. subsp. *nanum* (Scheele) P. D. Sell. — arid pastures - NC.

Hieracium cymosum L. subsp. *sabinum* (Sebast. & Mauri) Nägeli & Peter — grassy-stony slopes - C.

Hieracium cymosum L. subsp. *irregulare* Nägeli & Peter — W-Alps-Apenn. — stony pastures - NC.

Hieracium piloselloides Vill. subsp. *piloselloides* — arid meadows - C.

Hieracium florentinum All. — arid meadows - NC.

Hieracium obscurum Rchb. — arid meadows - NC.

Hieracium × *brachiatum* Bertol. ex Lam. — arid meadows - NC.

Hieracium praealtum Vill. ex Gochnat — arid meadows - NC.

Hieracium pavichi Heuff. — Pietracamela and M. dei Fiori (Zodda 1959a as *H. pavichi* subsp. *minutifloccum* Zahn, 1962b, 1967). These localities, as well as another of Zahn's from a specimen from Rigo per Pracchia, which could be referred to Umbria (Pignatti 1982), are the only known from Italy.

Hieracium bauhini Besser — arid uncultivated land - NC.

Hieracium bupleuroides C. C. Gmel. — ruins, Majella (Fiori 1923-29).

Hieracium glaucum All. subsp. *glaucum* — screes and ruins - NC.

Hieracium glaucum subsp. *willdenowii* (Monn.) Nägeli & Peter — screes and ruins - NC.

Hieracium glaucum subsp. *nipholepium* Nägeli & Peter — screes and ruins - NC.

Hieracium naegelianum Pancic subsp. *andreae* Degen & Zahn. — stony pastures - Velino (Belli, 1907, Fiori 1923-29, Montelucci 1958 from specimens collected by Levier and Cherici), Sirente (Veri & Tammaro 1980), Gran Sasso near Pietracamela along Rio Arno (Zodda 1962b, 1967), Majella (von Degen 1906, Fiori 1923-29, Tammaro 1986a from a specimen collected by Rigo).

Hieracium villosum Jacq. — stony slopes - NC - *Crepis conyzifolia* (Gouan) D. Torre is reported from Morrone as "*H. grandiflorum*" (Gravina 1812, Tenore & Gussone 1842) but it is to be referred to *H. villosum* (Grande 1924a).

Hieracium morisianum Rchb. — stony meadows at high altitude - NC.

Hieracium dentatum Hoppe - NC.

Hieracium scorzonerifolium Vill. subsp. *scorzonerifolium* - NC.

Hieracium glabratum Hoppe ex Willd. subsp. *glabratum* — cliffs - NC.

Hieracium glabratum subsp. *leontinum* (Huter & Gander) Naeg. & Peter - NC.

Hieracium piliferum Hoppe — Velino (Petriccione 1993).

Hieracium sylvaticum (L.) L. — woods - C.

Hieracium murorum L. subsp. *pleiotrichum* Zahn - NC.

Hieracium murorum subsp. *gypsophilum* (Griseb.) Zahn - NC.

Hieracium tenuiflorum (A.-T.) Zahn - NC.

Hieracium glaucinum Jord. — woods - NC.

Hieracium lachenalii C.C. Gmel. — woods - NC.

Hieracium bifidum Kit. ex Hornem. subsp. *bifidum* — cliffs, grassy-stony slopes - NC.

Hieracium bifidum subsp. *caesiflorum* (Almq.) Zahn - NC.

× *Hieracium incisum* Hoppe — Velino (Petriccione 1993).

× *Hieracium cirrhitum* A.-T. — Bosco Martese (Zodda 1959a as "*H. cirritum* subsp. *adusticeps* Zahn").

Hieracium pictum Schleich. ex Pers. — From Barrea to Villetta Barrea (Vaccari & Wilczek 1940). To be confirmed.

Hieracium × *rupestre* All. — Abruzzo (Pignatti 1982).

Hieracium lanatum Vill. subsp. *oligocephalus* Arv.Touv. — Near endem. - stony slopes, Pizzo di Sevo at Coste dell'Orso, Castelvechio and Colle rosso near Pizzoli (Bertoloni 1833-54 as "*H. tomentosum*", Zodda 1962c, 1967 as "*H. lanatum*" from Orsini).

Hieracium andryaloides (Vill.) Zahn — stony slopes, Majella, Morrone, Velino, Gran Sasso (Gussone 1826, Tenore 1831-42). To be confirmed.

Hieracium pellitum Fr. s.l. — Velino (Petriccione 1993).

Hieracium pellitum Fr. subsp. *pseudolanatum* (Arv.Touv.) Zahn — W. Alps-Ap. - NC.

Hieracium pteropogon Arv. Touv. subsp. *pteropogon* — W. Alps-Ap. - NC.

Hieracium humile Jacq. subsp. *humile* — cliffs - NC.

Hieracium humile Jacq. subsp. *pseudocottettii* Zahn - NC.

Hieracium amplexicaule L. — cliffs, stony slopes - NC.

Hieracium pulmonarioides Vill. — cliffs, stony slopes - NC.

Hieracium prenanthoides Vill. subsp. *prenanthoides* — upper belt of *Fagus sylvatica* woods, scrub, screes - NC.

Hieracium prenanthoides subsp. *lanceolatum* (Vill.) Zahn — Velino (Petriccione 1993).

Hieracium prenanthoides subsp. *bupleurifolium* (Tausch) Zahn - NC.

Hieracium juranum Fr. subsp. *perfoliatiforme* (Tausch) Zahn — Near endem.

Hieracium umbellatum L. — shady places - NC.

Hieracium sabaudum L. — margins of woods - NC.

Hieracium crinitum Sm. — open woods, scrub - NC.

Hieracium racemosum Waldst. & Kit. ex Willd. subsp. *moesianicum* (A. Kern.) Zahn — open woods - NC.

Hieracium barbatum Tausch. — open woods - NC.

Hieracium virgaurea Coss. — Endem. W-Alps-Ap. - cliffs - NC.

×*Hieracium italicum* Fr. — *Fagus sylvatica* woods - NC.

Alismataceae

Alisma lanceolatum With. — ditches, sluggish or stagnant waters, Teramo in Vezzola, Cortino at Altovia, Cologna Marina (Zodda 1953, 1967 as "*A. plantago aquatica* var. *stenophyllum* Asch. & Gr.") and F. Orta!

Alisma plantago-aquatica L. — ditches, sluggish or stagnant waters - C.

Baldellia ranunculoides (L.) Parl. — coasts of Pescara as "*Alisma ranunculoides* L." (Gussone 1826, Tenore 1831-42), where it is now extinct (Tammaro & Pirone 1979) and Marina di S. Salvo! (Conti & al. in press).

Sagittaria sagittifolia L. — marshy environments - Pignatti (1982) reports it generally from the Abruzzo but it is to be confirmed. There are no specimens in FI!

Butomaceae

Butomus umbellatus L. — marshy environments - Between Scurcola Marsicana and Cappelle Magliano (Anzalone 1960), Capo Pescara (Tammaro & al. 1987).

Hydrocharitaceae

Hydrocharis morsus-ranae L. — Pignatti (1982) reports it, but exact locality not indicated, it is not present in the local Floras and it is worthy of confirmation. There are no specimens in FI!

Elodea canadensis Michx. — N. Amer. naturalized — running waters, F. Aterno near L'Aquila, Paganica (Lusina 1952 as "*Anacharis canadensis*", Viegi & al. 1990 from a specimen of Tammaro), F. Pescara near Popoli!, Capo Pescara, F. Tirino and

F. Giardino (Basile & al. 1970, Tammaro 1971a), Lago di Filetto (Buchwald 1995), Lago di Ortucchio (Tammaro & al. 1995).

Juncaginaceae

Triglochin palustre L. — peaty meadows - Altopiano delle Rocche between Rocca di Mezzo and Rocca di Cambio (Gruppo Lavoro Conservazione Natura S.B.I. 1979), Rivisondoli in "il Molino" (Pirone 1986), Camosciara! (Conti 1995).

Potamogetonaceae

Potamogeton natans L. — stagnant waters - NC.

Potamogeton polygonifolius Pourr. — stagnant waters, Lago Vivo [Anzalone & Bazzichelli 1960 as "*P. natans polygonifolia* (Pourret)"].

Potamogeton lucens L. — stagnant waters, Teramo province (Zodda 1945 from a specimen collected by Quartapelle, but exact locality not indicated), Lago Pantaniello (Naviglio 1984), Fucino near Trasacco! (Conti 1992a), Lago di Montazzoli, Lago di Campotosto! (Conti & al. in press).

Potamogeton perfoliatus L. — stagnant waters, Fucino (Mauri & al. 1830, Tenore 1831-42), Sirente "Posti paludosi e lungo l'Aterno" (Groves 1880 as "*P. perfoliatum* L."), Lago di Campotosto! (Conti & al. in press). In Fucino is probably extinct (Tammaro & al. 1995).

Potamogeton gramineus L. — stagnant waters, Lago di Campotosto! (Conti & al. in press).

Potamogeton crispus L. — running and stagnant waters, F. Pescara "allo Scafone di S. Valentino" (Mauri & al. 1830), Sirente (Groves 1880, Guarrera & Tammaro 1994), Gole di Popoli (Tammaro 1971a), S. Vincenzo Val Roveto (Veri 1988), Molina Aterno!, Fucino near Trasacco! (Conti 1992a) Lago di Filetto!, Laghetto di S. Stefano (Buchwald 1995), Lago di Ortucchio (Tammaro & al. 1995).

Potamogeton pusillus L. — Lavino near S. Valentino (Mauri & al. 1830), Lago di Campotosto! (Conti & al. in press).

Potamogeton berchtoldii Fieber — stagnant waters, near Castel di Sangro in La Brionna (Tammaro 1983a).

Potamogeton trichoides Cham. & Schltr. — stagnant waters, Lago Pantaniello (Naviglio 1984, as "*P. pusillus* var. *trichoides*"), F. Saline near Montesilvano and F. Tordino near Giulianova (Pirone 1986).

Potamogeton pectinatus L. — stagnant waters - NC.

Groenlandia densa (L.) Fourr. — sluggish or stagnant waters, Castel di Sangro, La Brionna! (Tammaro & Visca 1987), Lago Serranella! (Conti in press).

Ruppia maritima L. — saline ponds - NC.

Ruppia cirrhosa (Petagna) Grande — saline ponds, Abruzzo (Pignatti 1982).

Posidoniaceae

Posidonia oceanica (L.) Delile — sandy sea depths, Teramo province (Zodda 1967) where it is rare if not extinct.

Zosteraceae

Zostera marina L. — sandy sea depths, Teramo province (Zodda 1967).

Zostera noltei Hornem. — sandy sea depths, Pignatti (1982) reports it generally.

Zannichelliaceae

Zannichellia palustris L. — stagnant waters, mouth of F. Sangro where *Z. palustris* subsp. *pedicellata* (Wahlenb. & Rosen) Arcang. is reported (Tammaro & al. 1996), Serranella! (Conti in press) and Lago Sinizzo near S. Demetrio dei Vestini!

Melanthiaceae

Tofieldia calyculata (L.) Wahlenb. — humid terraces, Gran Sasso on M. Prena along Via dei Laghetti! (Conti 1992a) and in Colle Malanotte in the territory of Isola del Gran Sasso! (Conti & al. in press).

Veratrum album L. subsp. *lobelianum* (Bernh.) Arcang. — glades, pastures and meadows at high altitude - C.

Veratrum nigrum L. — open woods, montane pastures - C.

Asphodelaceae

Asphodelus fistulosus L. — arid uncultivated land - NC along the coast and in the hill belt along the roads.

Asphodelus ramosus L. subsp. *ramosus* — arid meadows and garigue, Majella in Valle dell'Orta!, near Casoli!, Valle del Trigno! (Conti 1987 as "*A. aestivus* Brot."), Capistrello (Veri 1988 as "*A. microcarpus* Salzm. & Viv."), Grotta Imposta!, M. Gazzano in territory of Cupello!, between Scérni and Cupello (Manzi 1992a as "*A. aestivus* Brot."). In Italy var. *ramosus* occurs (Diaz Lifante & Valdés 1996).

Asphodelus macrocarpus Parl. subsp. *macrocarpus* (*A. albus* auct., non Mill.) — montane pastures, in Italy only var. *macrocarpus* occurs (Diaz Lifante & Valdés 1996).

Asphodeline lutea (L.) Rchb. — arid and stony slopes - NC.

Asphodeline liburnica (Scop.) Rchb. — arid and stony slopes, M. Ospedalerà near Popoli, Gole di S. Venanzio (Tammaro & al. 1979), Valle dell'Orfento! (Tammaro 1986a), M. Salviano! (Tammaro & al. 1995), Valle dell'Orta!

Anthericaceae

Anthericum ramosum L. — arid pastures, Gran Sasso (Furrer & Furnari 1960, Zodda 1967).

Anthericum liliago L. — arid pastures - C - *Paradisea liliastrum* (L.) Bertol. Is reported from M. Ceraso (Parlatore 1848-96 as "*Liliastrum album* Link"). A specimen collected by Orsini from the Pizzo di Sevo in FI! is to be referred to *Anthericum liliago* as well as according to Parlatore's report.

Hemerocallidaceae

Hemerocallis fulva (L.) L. — S. Europ. - naturalized - Teramo province (Zodda 1953).

Colchicaceae

Colchicum alpinum DC. — cool meadows - C.

Colchicum lusitanum Brot. — pastures - C.

Colchicum neapolitanum (Ten.) Ten. — M. dei Fiori, Campotosto, Gran Sasso, Morrone, Sirente, Avezzano, Villavallelonga, Pettorano sul Gizio, Piano delle Cinquemiglia, Castel di Sangro (Grande 1924a). According to Anzalone & Bazzichelli (1959-60) and Pignatti (1982) these reports are to be referred to *C. lusitanum*. Furthermore reported from Majella (Tammaro 1986a) and Gran Sasso at Campo Imperatore where it is reported as new for Abruzzo (Tammaro & Visca 1987).

Bulbocodium versicolor (Ker Gawl.) Spreng. [*B. vernum* subsp. *versicolor* (Ker Gawl.) Richt.] — arid pastures, Feudo di Sipari in the territory of Villavallelonga (Grande 1904). In Abruzzo this species reaches the southernmost limit of its Italian distribution area.

Liliaceae

Gagea arvensis (Pers.) Dum. [*G. villosa* (M. Bieb.) Duby] — fields, arid uncultivated land - NC.

Gagea granatellii (Parl.) Parl. — arid pastures, Barrea [Anzalone & Bazzichelli 1960 as "*G. arvensis* var. *granatelli* (Parl.)"] where according to the same authors it is to be confirmed and Majella at Valle dell'Orta! and Valle dell'Orfento! (Conti & Stanisci 1990).

Gagea boehmica (Zauschn.) Schult. & Schult. f. subsp. *saxatilis* (Mert. & Koch) Pascher — arid and stony meadows, Villavallelonga!, Pescasseroli!, Alfedena! [Conti & al.

1990 as "*G. busambarensis* (Tineo) Parl.", Anzalone 1991], near Capestrano! (Conti & al. in press).

Gagea foliosa Schult. — arid meadows, Lentella in Passo del Vasto!, Grotta Imposta, Capestrano!, Valle di Rio Lucoli (Conti & al. in press).

Gagea fragifera (Vill.) E. Bayer & G. López [*G. fistulosa* sensu Ker Gawl.; *G. liotardii* (Sternb.) Schult. & Schult. f.] — cool meadows - NC.

Gagea pratensis (Pers.) Dumort. — arid meadows, Gran Sasso at Campo Imperatore, M. dei Fiori (Anzalone 1991), Sirente (Guarrera & Tammaro 1994).

Gagea lutea (L.) Ker Gawl. — *Fagus sylvatica* woods - C.

Tulipa sylvestris L. subsp. *sylvestris* — fields, Giulianova and Teramo at S. Venanzio (Zodda 1953), Lanciano (Conti & al. in press).

Tulipa sylvestris L. subsp. *australis* (Link) Pampan — montane pastures, Ovindoli (Pignatti 1982 as "*T. australis* Link").

Tulipa oculus-solis St. Amans — Asia - naturalized - fields, Francavilla (Dedomenico 1885), Giulianova, Teramo, Penne (Zodda 1953).

Tulipa praecox Ten. — C. Asiat? - naturalized - fields, Teramo [Zodda 1953 as "*T. oculus-solis* var. *praecox* (Ten.)"].

Erythronium dens-canis L. — *Fagus sylvatica* woods, Gran Sasso, in Teramo province (Di Fabrizio pers. comm.). Probably it occurs but it is worthy of confirmation.

Fritillaria orientalis Adams [*F. tenella* M. Bieb. subsp. *orsiniana* (Parl.) Arcang.] — arid pastures, territory of Villavallelonga, Valle del Giovenco! (Grande 1904, Anzalone & Bazzichelli 1960, Chicchiriccò & Tammaro 1982, Conti 1995), M. dei Fiori! (Mauri & al. 1830, Tenore 1831-42 as "*F. pyrenaica* Shult. - *B uniflora*", Bertoloni 1833-54 as "*F. montana*", Crugnola 1894), Majella at Orfento (Tammaro 1986a), Sirente (Guarrera & Tammaro 1994), Cappadocia (Veri 1988), near Lecce nei Marsi!

Lilium martagon L. — glades, open *Fagus sylvatica* woods, subalpine pastures - NC.

Lilium bulbiferum L. subsp. *croceum* (Chaix) Baker — glades, margins of woods - C.

Lilium candidum L. — E. Medit. - naturalized - Popoli (Tammaro 1971a), Teramo (Zodda 1953), between Fara S. Martino and Casoli (Pirone pers. comm.), Valle del Pescara near Torre de' Passeri!

Hyacinthaceae

Scilla hyacinthoides L. — W. Asiat. - naturalized - Casalbordino (Tammaro & Pietrocola

1974) Gole del Salinello (Viegi & al. 1990 from a specimen of Pietrocola).

Scilla bifolia L. subsp. *bifolia* — *Fagus sylvatica* woods, secondary pastures - CC.

Scilla autumnalis L. — arid and stony meadows - NC.

Scilla hispanica Mill. — naturalized, Tossicia but probably escaped from cultivation (Crugnola 1900 as "*Hyacinthus amethystinus* Lam." from a specimen of Petrilli). To be confirmed.

Urginea maritima (L.) Baker — arid slopes, Vasto!, near the historical centre, Ortona in Peticcio! In the two localities known, the nativeness is doubtful (Conti & Manzi 1996).

Ornithogalum comosum L. — NC - *O. collinum* Guss. is reported from M. Velino and M. dei Fiori, Pietracamela, Cortino alle Pantanelle [Mauri & al. 1830, Tenore 1831-42, Zodda 1967 as "*O. umbellatum* var. *collinum* (Guss.)"]. According to Grande (1922) it is to be referred to *O. comosum*. According to Tornadore & Garbari (1979) and Garbari & Giordani (1984) *O. collinum* in Italy is reported only from Sicily. Recently Guarrera & Tammaro (1994) reported it, probably erroneously, from Sirente. These authors consider it synonym of *O. gussonei*.

Ornithogalum montanum Cyr. ex Ten. — arid pastures and uncultivated areas, M. dei Fiori (Tenore 1831-42, Zodda 1953 from Orsini) and Gran Sasso (Barbagallo & Guglielmo 1975a).

Ornithogalum umbellatum L. subsp. *umbellatum* — meadows - C.

Ornithogalum divergens Boreau — arid pastures - distribution to be studied.

Ornithogalum cfr. *orthophyllum* Ten. — arid pastures, Pizzoli (Tenore 1831-42), Cortino [Fiori 1927 as "*O. tenuifolium*", Zodda 1967 as "*O. umbellatum* var. *tenuifolium* (Guss.)"], Pescasseroli (Tornadore & Garbari 1979), Val di Foro (Tammaro 1986a), Velino (Lucchese & Lattanzi 1991, Petriccione 1993). Probably the previous reports of *O. gussonei* Ten. (Tornadore & Marcucci pers. comm.), which is to be excluded from C.-Italy, are to be referred to this taxon (Tornadore & Marcucci 1997). Some of them could be referred also to *O. refractum* and *O. ambiguum* as well as it happened after a revision of the material in Marche and in Molise (Tornadore & Marcucci 1997). It can be hardly separated from "*O. orthophyllum* subsp. *kochii* (Parl.) Maire & Weiller", whose distribution area is not known (Giordani & Garbari 1989).

Ornithogalum exscapum Ten. — arid pastures, it is generally reported from the Abruzzo from a specimen collected by Guadagno (Tornadore & Garbari 1979).

Ornithogalum refractum Kit. — "in cultis Aprutii" (Tenore 1831-42). To be confirmed.

Ornithogalum adalgisae Groves — near Villavallelonga, Pizzoli (Grande 1924b). It was

recently confirmed only from Apulia (Tornadore & Marcucci 1993).

Ornithogalum nutans L. — surrounding of Scanno (Gravina 1812). To be confirmed.

Ornithogalum narbonense L. — uncultivated land - NC.

Ornithogalum brevistylum Wolfner — arid uncultivated land - NC - See Tornadore & Orza (1987) for its relationships with the other taxa of subgen. *Beryllis* (Salisb.) Baker.

Ornithogalum pyrenaicum L. (s.l.) — mixed woods, “montane meadows in Abruzzo” (Tenore 1811-38, 1831-42), Parco Nazionale d’Abruzzo (Grande 1904, Anzalone & Bazzichelli 1960) and Palena in Majella (Feoli-Chiapella 1979-80).

Bellevia romana (L.) Rchb. — humid meadows - C.

Bellevia dubia (Guss.) Kunth — “Teramo at Mezzanotte” (Zodda 1967 as “*Hyacinthus dubius* Guss.”).

Muscari commutatum Guss. — Castel di Sangro (Bertoloni 1833-54). To be confirmed.

Muscari neglectum Guss. ex Ten. (s.l.) — meadows, pastures - CC – According to Brilli-Cattarini (pers. comm.) *M. atlanticum* Boiss. & Reuter does not occur in Italy and the reports for this species are mostly to be referred to *M. neglectum*. *M. atlanticum* subsp. *alpinum* (Fiori) Garbari is reported as well from Piani di Pezza, Villavallelonga, Pescasseroli, Gran Sasso, Torricella Sicura (Anzalone & Bazzichelli 1960, Zodda 1967 as “*M. racemosum* Mill. var. *alpinum* Fiori”, Garbari 1984).

Muscari botryoides (L.) Mill. — meadows, surroundings of Scanno (Gravina 1812 as “*Hyacinthus botryoides*”), Velino (Montelucci 1958), T. Laio in the territories of Guardiagrele and Casoli (Manzi & Pellegrini 1994), Capo Pescara (Pirone & al. 1997), Roccascalegna (Conti & al. in press). Di Giuseppe’s report from Teramo is almost undoubtedly to be referred to *M. neglectum* (Zodda 1953).

Leopoldia comosa (L.) Parl. — arid meadows, uncultivated land - CC.

Alliaceae

Allium sativum L. — unknown origin, naturalized.

Allium sphaerocephalon L. — arid and stony pastures - CC.

Allium vineale L. — uncultivated land, humid meadows - C.

Allium rotundum L. — uncultivated land, ruderal environments, Bisegna, between Pescasseroli and Bisegna! (Conti & Minutillo 1996), Cicerana!

Allium atrovioleaceum Boiss. — arid uncultivated land, Pescara! and its surroundings

(Montesilvano, Spoltore, Francavilla!, Silvi, etc.) (Conti & Pirone 1986), Ortona!, Rosciano, Alanno, mouth of F. Sangro!, Vasto!, Capestrano and Morino (Conti & al. 1990).

Allium ampeloprasum L. — uncultivated land - C.

Allium sardoum Moris — generally reported from the Abruzzo (Parlatore 1848-96 as "*A. margaritaceum* Sibth. & Smith.") and to be confirmed. According to Garbari (1976) it does not occur in Abruzzo.

Allium arvense Guss. — generally reported from the Abruzzo (Tenore 1831-42), Piani di Pezza (Marcucci & Tornadore 1997).

Allium oleraceum L. s.l. — uncultivated land, humid meadows - NC.

Allium flavum L. subsp. *flavum* — stony meadows, Tagliacozzo (Pignatti 1982), Sirente! (Conti & al. 1990), Velino (Lucchese & Lattanzi 1991, Petriccione 1993), near Villavallelonga, near Pescina!, Colle dell'Omo di Bobbi!, Serra Lunga! (Grande in Fiori & al. 1906, Conti & Minutillo 1996), Marsica in the localities with *Phlomis fruticosa* (Pirone 1995c), from Campo Imperatore to La Portella (Dinter 1997).

Allium moschatum L. — stony slopes, Montecalvo and Pizzoli (Parlatore 1848-96), Villavallelonga, Colle Truscino!, Sperone! (Anzalone & Bazzichelli 1960 from a specimen of Grande, Conti & Minutillo 1996), L'Aquila province in several localities, Velino, Gran Sasso, Sirente, Simbruini! (Tornadore 1982, Tammaro 1983c, Guarrera & Tammaro 1994), Vallone dell'Orfento (Tammaro 1986a), Morrone di Pacentro! (Conti 1987), W.-Majella, Gessopalena! (Manzi pers. comm.), Fresagrandinara!

Allium cirrhosum Vand. — arid and stony slopes, to Molise Mts (Parlatore 1848-96 as "*A. pulchellum* Don"), Parco Nazionale d'Abruzzo [Anzalone & Bazzichelli 1960 as "*A. carinatum* L. *cirrosum* (Vandelli)"], Gran Sasso [Zodda 1953 as "*A. carinatum* L. *cirrosum* (Vandelli) Fiori", Tammaro 1983c], Majella at Orfento (Tammaro 1986a), Sirente (Guarrera & Tammaro 1994 as "*A. carinatum* L. subsp. *pulchellum* Bonn. & Layens").

Allium carinatum L. — Majella (Tammaro 1986a from a specimen collected by Groves). Not found recently and to be confirmed.

Allium tenuiflorum Ten. — arid meadows, stony glades - C.

Allium pallens L. — arid environments, uncultivated land - NC.

Allium paniculatum L. — arid uncultivated land - NC.

Allium dentiferum Webb & Berthel. — arid uncultivated land - NC - Probably most of the previous reports attributed to *A. fuscum* Waldst. & Kit., *A. longispathum* Red., *A. paniculatum* L. and *A. pallens* L. are to be referred to this taxon (Brullo & al. 1991).

Allium cupanii Raf. subsp. *cupanii* — arid uncultivated land, Pacentro, Raiano, L'Aquila, Sulmona, Caramanico, Popoli, Marsica (Gussone 1826 as "*A. cupani* Rafin", Mauri & al. 1830 as "*A. montanum*", Tenore 1831-42 as "*A. montanum*", Parlatore 1848-96, Grande 1904, Fiori & al. 1906 from Grande, Garbari & al. 1979 from specimens collected by Grande), Velino in Valle Majelama (Lucchese & Lattanzi 1991).

Allium lusitanicum Lam. [*A. senescens* L. subsp. *montanum* (Fr.) Holub] — arid meadows, stony meadows at high altitude - C.

Allium ochroleucum Waldst. & Kit. — Illyrian-Apenn. — cool stony pastures, Gran Sasso! and Majella! [Gussone 1826, Tenore 1831-42 as "*A. suaveolens* Jacq.", Abbate 1903 as "*A. ericetorum*", Bazzichelli 1960 as "*A. suaveolens ochroleucum* (W. & K.)", Tammaro 1986a as "*A. ericetorum*", Conti 1987 as "*A. ericetorum*", Matteucci & Martelli 1894 as "*A. ericetorum* Thor.", Zodda 1953 from Gussone, Orsini, Crugnola and Martelli, Zodda 1967, Furrer & Furnari 1960, Bazzichelli 1960 as "*A. suaveolens* var. *ochroleucum* (W. & K.)"] and Sirente (Groves 1880). All the reports are probably to be referred to *A. ochroleucum*; *A. suaveolens* and *A. ericetorum* do not occur in C.-Italy (Miceli & al. 1987).

Allium lineare L. — stony slopes, Velino (Petriccione 1993).

Allium saxatile M. Bieb. — stony slopes, M. dei Fiori, Gran Sasso, Majella! (Bertoloni 1833-54 as "*A. fallax*", Tammaro 1986a, Conti 1987), Parco Nazionale d'Abruzzo! (Fiori 1923-29, Conti 1995, Dinter 1996, 1997), Velino (Montelucci 1958, Miceli & Garbari 1981 from a specimen collected by Levier, Blasi & al. 1990, Lucchese & Lattanzi 1991, Petriccione 1993), Sirente (Guarrera & Tammaro 1994), Civitella Roveto (Veri 1988), Vallone Lacerno!, Serra Lunga between Collelongo and Civita d'Antino!

Allium cepa L. — W. Asiat. - naturalized.

Allium fistulosum L. — naturalized, Silvi marina, Tortoreto (Zodda 1967).

Allium schoenoprasum L. subsp. *schoenoprasum* — stony slopes, M. Argatone!, Serra della Terratta! (Conti 1995).

Allium nigrum L. — fields, uncultivated land - C.

Allium neapolitanum Cyr. — vineyards, olive-grives, uncultivated land - C.

Allium roseum L. — arid uncultivated land - C.

Allium phthioticum Boiss. & Heldr. — humid meadows, Parco Nazionale d'Abruzzo near Pescasseroli in Valle Chiara!, La Cicerana!, Passo Godi! (Conti 1995) and Gran Sasso in Voltigno (from a specimen collected by Pedrotti in CAME!). Those from the Abruzzo are the only localities known for Italy.

Allium subhirsutum L. — uncultivated land, Campo di Giove (Tammaro 1986a).

Allium triquetrum L. — woods - NC.

Allium pendulinum Ten. — woods - NC.

Allium ursinum L. subsp. *ursinum* — *Fagus sylvatica* woods - C.

Allium ursinum L. subsp. *ucrainicum* Kleopov & Oxner — *Fagus sylvatica* woods - NC
- The distribution of this species and of the previous taxon is to be verified because in the past they were often confused.

Allium chamaemoly L. — arid meadows, Pescara (Pineta d'Avalos)!, mouth of F. Osento! (Conti 1990b), mouth of F. Sangro! (Conti & Stanisci 1989), Lentella in Passo del Vasto! (Conti & al. in press), Villa Comunale di Vasto!

Convallariaceae

Convallaria majalis L. — open *Fagus sylvatica* woods mostly over 1500 m, Pizzoli (Tenore 1831-42), Sirente (Groves 1880, Tammaro & al. 1974, Guarrera & Tammaro 1994), Camosciara!, territory of Villavallelonga (Grande 1904, Lusina 1953, Società Botanica Italiana 1953, Anzalone & Bazzichelli 1960), Isola del Gran Sasso (Crugnola 1894), Morrone (Tenore & Gussone 1842), Majella! (Tammaro 1986a), Ernici (M. Ferrera-Valle dell'Inferno) (Steffan & al. 1985 mention Spaziani), Velino (Petriccione 1993), Fosso della Rava!, Fossaceca!, M. Ortara!

Streptopus amplexifolius (L.) DC. — cool *Fagus sylvatica* woods, in the impluviums, Serra delle Gravare near Passaggio dell'Orso! Within the Parco Nazionale d'Abruzzo it was found also at Mainarde! (Molise) (Conti 1992b).

Polygonatum odoratum (Mill.) Druce — thermophilous open woods - C.

Polygonatum multiflorum (L.) All. — *Fagus sylvatica* woods - C.

Polygonatum verticillatum (L.) All. — *Fagus sylvatica* woods - Parco Nazionale d'Abruzzo! (Grande 1911, Fiori 1923-29), Pizzo di Sevo (Grande 1913 from a specimen collected by Orsini in Herb. Tenore), Capistrello (Veri 1988), Gran Sasso at Fosso della Rava!

Trilliaceae

Paris quadrifolia L. — cool *Fagus sylvatica* woods - C.

Asparagaceae

Asparagus officinalis L. — Euri-Medit. (naturalized) — retrodune depressions, found in a few localities along the coasts (Martinsicuro!, Marina di S. Salvo!) - NC.

Asparagus maritimus Mill. — retrodune depressions, Teramo, Giulianova (Zodda 1953 as "*A. officinalis* var. *maritimus*" from Di Giuseppe).

Asparagus tenuifolius Lam. — woods - NC.

Asparagus acutifolius L. — maquis, thermophilous open woods, hedges - C.

Ruscaceae

Ruscus aculeatus L. — mediterranean and supramediterranean woods - C.

Ruscus hypoglossum L. — cool woods - NC.

Smilacaceae

Smilax aspera L. — maquis and thermophilous woods - C.

Amaryllidaceae

Sternbergia colchiciflora Waldst. & Kit. — arid slopes, Piano delle Cinquemiglia, Pantaniello di Rivisondoli (Gussone 1826, Pirone 1997b) and Marsica at Villavallelonga, Collelongo and M. Salviano (Anzalone & Bazzichelli 1960 quote Grande).

Sternbergia lutea (L.) Ker Gawl. ex Spreng. — arid and stony meadows, provincial road Teramo-Toricella-Ceppo where it disappeared because of road works (Zodda 1953a), "Teramo a S. Venanzio, forse avanzo di coltura" (Zodda 1965d, 1967), Gole del Sagittario near Anversa! (Conti 1995), Pescina (Tassi pers. comm.), Petrella Liri near Grotta Cola!

Galanthus nivalis L. subsp. *nivalis* — cool woods - C.

Pancratium maritimum L. — coastal dunes, coasts of Teramo province from Tortoreto to Silvi (Zodda 1953), where it was confirmed only from Roseto and Silvi, P.ta Penna (Pirone in press), coasts between Torino di Sangro and Lido di Casalbordino!, coast near Tollo! (Conti & al. 1990). In Abruzzo it was previously known generally for the coasts (Parlatore 1848-96) and for the coast of Francavilla (Rigo 1877) where the species can be regarded as extinct because of the deep anthropic modifications happened in the territory.

Narcissus pseudonarcissus L. (s.l.) — W. Europ. - naturalized - uncultivated land, Gran Sasso, along F. Ruzzo, Penne (Bertoloni 1833-54, Crugnola 1900, Zodda 1954, 1967 ex Herb. Petrilli).

Narcissus tazetta L. subsp. *tazetta* — meadows - C.

Narcissus poeticus L. subsp. *poeticus* — montane pastures - C.

Dioscoreaceae

Tamus communis L. — woods, var. *cretica* (L.) Boiss. is reported.

Iridaceae

Hermodactylus tuberosus (L.) Salisb. — arid meadows - NC.

Iris lutescens Lam. s.l. — Velino in the feet of M. Rozza! (Conti & al. in press).

Iris germanica L. — naturalized - C.

Iris florentina L. — naturalized - C.

Iris marsica I. Ricci & Colas. — Endem. C. Ap. - arid pastures, Marsica! (Ricci & Colasante 1973, Colasante & Altamura 1986), Velino in Valle di Sevice (Lucchese & Lattanzi 1991), Petrella Liri near Grotta Cola!

Iris pseudacorus L. — riversides, marshy environments - NC.

Iris foetidissima L. — cool woods, naturalized in the wood of Colle Romano at Penne (Zodda 1953), Archi! (Conti & al. 1990), F. Osento near its mouth, Atessa in Bosco di Vallaspra!, F. Saline and T. Piomba (Conti & Pirone 1992), Sinello, Feltrino, Bosco di Mozzagrogna, F. Osento, Serranella where it has been introduced (Manzi 1992b, Manzi & Pellegrini 1994).

Iris collina N. Terracc. — open woods, glades, Abruzzo (Colasante & Altamura 1986 from a specimen collected by Gussone), Bosco di Torino di Sangro, Bosco di Vallaspra! (Conti & Manzi 1996).

Crocus imperati Ten. — Endem. C. S. It - arid pastures, Capistrello (Veri 1988).

Crocus vernus (L.) Hill subsp. *vernus* (*C. napolitanus* Mord. & Loisel) — montane pastures - CC.

Crocus vernus subsp. *albiflorus* (Kit.) Asch. & Graebn. (*C. albiflorus* Kit.) — pastures - NC.

Crocus sativus L. — W. Asiat. — var. *orsinii* Parl. is reported from M. dei Fiori (Zodda 1967).

Crocus reticulatus Steven ex Adams — arid pastures, Marsica and Trasacco Mts (Anzalone & Bazzichelli 1960 from specimens collected by Grande), Valle Morino near Scoppito (Pacioni & Veri 1983), Conca Aquilana (Chicchiriccò & al. 1979, Tammaro 1987b, 1995).

Crocus biflorus Mill. — meadows of Rocca di Mezzo (Guarrera & Tammaro 1994) and near Roccascalegna! (Conti & al. in press).

Romulea bulbocodium (L.) Sebast. & Mauri — arid meadows, bends of Popoli near the crossroads of S. Benedetto in Perillis!, Prati dell'Impianezza near Popoli (Tammaro & Frizzi 1982), Oricola (Veri 1988), Majella at Valle dell'Orfento! (Conti &

Stanisci 1990), Salviano (Tammaro & al. 1995), Capo Pescara (Pirone & al. 1997), gypsum hills near Fresagrandinara!

Romulea rollii Parl. — sands near the coast, Pineto (Zodda 1965c), Pineta d'Avalos! (Tammaro & Pirone 1980), Torino di Sangro! (Conti & al. in press). The species is now extinct at Pineto because of the anthropic modifications of the territory.

Romulea columnae Sebast. & Mauri — arid meadows, Teramo (Zodda 1953 from Di Giuseppe), near the mouth of F. Sangro! (Tammaro & Frizzi 1982), Gole di Popoli (Tammaro 1971a), Majella at Valle dell'Orta! (Conti & Stanisci 1990), Grotta Imposta near Casoli, Capestrano (Manzi pers. comm.).

Gladiolus italicus Mill. — fields - C.

Gladiolus byzantinus Mill. — fields, uncultivated land, Abruzzo (Tenore 1831-42), Teramo province [Zodda 1953, 1967 as "*G. communis* var. *byzantinus* (Mill.)"], Velino in Valle di Sevice (Lucchese & Lattanzi 1991).

Gladiolus communis L. — fields, uncultivated land - C.

Juncaceae

Juncus subulatus Forssk. — mouth of F. Sangro (Tenore 1831-42 as "*J. multiflorus*") where it seems extinct (Pirone & Conti 1996).

Juncus trifidus L. — Parco Nazionale d'Abruzzo in M. Meta, M.ti di Chiarano, Gran Sasso, Morrone, Majella (Gussone 1826, Mauri & al. 1830, Tenore 1831-42, Zodda 1953, 1967, Tammaro 1986a from specimens collected by Groves, Tammaro 1995). Some reports could have been confused with *Juncus monanthos*.

Juncus monanthos Jacq. [*J. trifidus* L. subsp. *monanthos* (Jacq.) Asch. & Graebn.] — cool meadows at high altitude - C.

Juncus triglumis L. — peat-bogs, Gran Sasso at Arapietra and Moricane (Parlatore 1848-96, Crugnola 1894), Morrone (Cesati 1873), Laga in Pizzo di Moscio (Arcioni 1993).

Juncus bufonius L. — humid environments - NC.

Juncus hybridus Brot. — humid coastal sands, Villa Vomano (Zodda 1962b), Pescara (Pirone & al. in press).

Juncus compressus Jacq. — humid environments, Torbiera di Campotosto! (Cecchettani 1907), Teramo at Vena Corvo (Zodda 1953), Conca di Amplero! (Conti 1992b), Sirente (Guarrera & Tammaro 1994), Serra Rocca Chiarano! (Conti 1995), Passo Godil, Templo!, Voltigno!

Juncus gerardi Loisel. — F. Tronto bed and Valle del Tordino at Lame [Zodda 1965b, 1967 as "*J. compressus* var. *gerardi* (Lois)"] where it is to be confirmed.

Juncus effusus L. subsp. *effusus* — marshes, humid meadows - C.

Juncus effusus subsp. *fistulosus* (Guss.) Cif. & Giacom. — Bosco Martese [Zodda 1953 as "*J. conglomeratus* L. var. *fistulosus* (Guss.)"].

Juncus conglomeratus L. — Campotosto peat-bog (Cecchettani 1907) where it was nomore found.

Juncus inflexus L. — pools and watercourses - C.

Juncus filiformis L. — Castelli (Crugnola 1900 ex Herb. Petrilli). Not found recently and to be confirmed.

Juncus arcticus Willd. — peaty sources, Moricane, Conca degli Invalidi, Malecoste, Pizzo di Moscio (Parlatore 1848-96, Crugnola 1894, Pedrotti 1983a, Arcioni 1993).

Juncus acutus L. subsp. *acutus* — humid saline sands - NC.

Juncus littoralis C. A. Mey. — retrodune depressions, S. Silvestro beach near Pescara, mouth of T. Piomba [Tammaro & Pirone 1979 as "*J. acutus* L. subsp. *tommasinii* (Parl.) Arc."], Pineta d'Avalos (Tammaro & Pirone 1981), mouth of F. Vomano, Villa Rosa di Martinsicuro, Faro di Vasto, Marina di Vasto! (Pirone 1995b), mouth of F. Sangro (Géhu & al. 1984, Tammaro & al. 1996), mouth of T. Vibrata, between Pineto and Scerne (Pirone in press).

Juncus maritimus Lam. — retrodune depressions, Francavilla al mare (Dedomenico 1885) where it is extinct, Teramo province! (Zodda 1953, 1967, Chiosi 1975 from a specimen collected by Marchesetti, Conti & Manzi 1996), Marina di S. Salvo!, Pineta d'Avalos! (Conti & al. in press). Zodda (1957) reports var. *rigidus* Desf. from Villa Rosa di Martinsicuro but it is to be checked.

Juncus subnodulosus Schrank — marshy environments, Buccianico (Villani 1921 as "*J. obtusiflorus* Ehrh."), coast of Martinsicuro, along F. Tronto, Villa Rosa (Zodda 1962b, 1964, 1965b, 1967 as "*J. obtusiflorus* Ehrh."), between Pineto and Scerne di Pineto (Pirone 1995b), F. Tirino (Corbetta & Pirone 1989, Buchwald 1995), Gran Sasso (Tammaro 1995), Serranella! (Conti in press), Marina di S. Salvo!

Juncus fontanesii J. Gay — Teramo in Vezzola [Zodda 1953 as "*J. articulatus* var. *fontanesii* (J. Gay) Fiori"].

Juncus articulatus L. — marshes, ditches, humid meadows - C.

Juncus acutiflorus Ehrh. ex Hoffm. — marshy environments - NC.

Juncus alpinus Vill. (*J. alpinoarticulatus* Chaix) — marshy environments, Pizzo di Sevo [Parlatore 1848-96, Crugnola 1894, Zodda 1953 as "*J. articulatus* var. *alpinus* (Vill.)" from specimens collected by Orsini, Pedrotti 1983a].

Juncus striatus Schousb. ex E. Mey. — marshy environments, Giulianova and F. Tronto bed [Zodda 1953, 1967 as "*J. articulatus* var. *striatus* (Schousb.)"]. Doubtfully reported from Villetta Barrea and Pescasseroli (Anzalone & Bazzichelli 1960).

Luzula forsteri (Sm.) DC. — woods - C.

Luzula pilosa (L.) Willd. — woods, Fano Adriano and Cerqueto (Zodda 1967), S.-Gran Sasso (Tammaro 1995).

Luzula sylvatica (Huds.) Gaudin subsp. *sylvatica* — woods - C.

Luzula sylvatica subsp. *sieberi* (Tausch) K. Richter? (*L. sieberi* Tausch subsp. *sieberi*) — open woods, scrub, montane pastures - C - It cannot be easily distinguished from *L. sylvatica* and to be confirmed.

Luzula campestris (L.) DC. — pastures - C.

Luzula multiflora (Ehrh.) Lej. subsp. *multiflora* — pastures - NC.

Luzula italica Parl. — meadows at high altitude - NC.

Commelinaceae

Commelina communis L. — E. Asiat. - uncultivated land, adventitious at Pescara (Pirone & al. in press).

Gramineae

Lamarckia aurea (L.) Moench — uncultivated land, surroundings of Scanno (Gravina 1812 as "*Cynosurus aureus*"), Fano Adriano and Altavilla di Montorio (Crugnola 1900, Zodda 1953 from Petrilli's herbarium).

Cynosurus cristatus L. — meadows - C.

Cynosurus echinatus L. — arid meadows - C.

Cynosurus elegans Desf. — arid uncultivated land - NC.

Briza maxima L. — fields, arid uncultivated land - C.

Briza media L. subsp. *media* — meadows, uncultivated land - C.

Briza minor L. — uncultivated land, meadows - C.

Aeluropus littoralis (Gouan) Parl. — sandy coastal habitats, at present it seems extinct from the coast of Abruzzo (Pirone & Conti 1996).

Dactylis hispanica Roth — uncultivated land and arid meadows - C.

Dactylis glomerata L. subsp. *glomerata* — uncultivated land, ruderal environments - CC.

Sclerochloa dura (L.) Beauv. — coastal sands, Giulianova (Zodda 1953).

Bellardiachloa variegata (Lam.) Kerguelen (*Poa variegata* Lam.; *Poa violacea* Bellardi) — montane pastures and meadows at high altitude, Morrone, M. Civitella, Gran Sasso! and M.ti della Laga! [Gussone 1826 as "*Festuca poaeformis* Host.", Mauri & al. 1830 as "*Festuca poaeformis*", Zodda 1967, Pedrotti 1982a, Tammaro 1995 as "*Bellardiachloa violacea* (Bellardi) Chiov."].

Poa annua L. — uncultivated land, ruderal environments - C.

Poa infirma Kunth (*P. annua* var. *exilis* Tommasini) — uncultivated land - NC.

Poa supina L. — snowbed meadows, Bosco Martese at Colle dell'Orso [Zodda 1953 as "*P. annua* var. *supina* (Schr.)"], Valle Cannella (Tammaro 1986a).

Poa compressa L. subsp. *compressa* — humid uncultivated land - NC - var. *langeana* (Rchb.) is reported from the mouth of Tordino and Bosco Martese (Zodda 1967).

Poa trivialis L. subsp. *trivialis* — meadows - CC.

Poa trivialis L. subsp. *sylicola* (Guss.) H. Lindb. — woods - C.

Poa pratensis L. — cool meadows - CC - var. *anceps* Gand. and var. *angustifolia* (L.) were reported (Zodda 1953, 1967).

Poa bulbosa L. — arid meadows, uncultivated land - CC.

Poa perconcinna Edmondson (*Poa carniolica* Hladnik & Graf) — Civitella del Tronto [Zodda 1967 as "*P. bulbosa* var. *concinna* (Gaud.)"]. According to Pignatti (1982) it is to be checked.

Poa alpina L. subsp. *alpina* — montane pastures, meadows at high altitude, screes, stony slopes - CC.

Poa badensis Haenke ex Willd. — Gran Sasso, M. Gorzano, Morrone, Majella in Femmina Morta [Lüdi 1943, Steinberg 1952, Zodda 1953, 1957, 1967 as "*P. alpina* var. *badensis* (Haenke)", Tammaro 1986a from a specimen collected by Levier] and doubtfully from Velino (Montelucci 1958). According to Pignatti (1982) it was reported erroneously and perhaps to be eliminated.

Poa molineri Balbis — stony slopes - NC and to be investigated because confused with other taxa.

Poa pumila Host — reported from Duchessa and Abruzzo [Steinberg 1952 as "*P. alpina* var. *pumila* (Host) Fiori"].

Poa laxa Haenke — stony areas, Majella (Tenore 1831-42, Pignatti 1982).

Poa nemoralis L. — woods - C.

Poa palustris L. — humid meadows, marshy environments, surroundings of Scanno (Gravina 1812), Quarti della Majella (Tammaro 1986a), F. Tirino (Corbetta & Pirone 1989).

Vulpia sicula (Presl) Link — Abetina di Cortino (Zodda 1953, Pignatti 1982). Not confirmed in Zodda (1967).

Vulpia geniculata (L.) Link — garigue, arid uncultivated land, Gole di Popoli (Tammaro 1971a).

Vulpia ligustica (All.) Link — uncultivated land, arid meadows - NC.

Vulpia ciliata Dumort. — arid meadows - C.

Vulpia myuros (L.) C. C. Gmel. — arid uncultivated land, garigue - C.

Vulpia bromoides (L.) S. F. Gray — arid uncultivated areas, pastures - Pignatti (1982).

Vulpia membranacea (L.) Link — sandy coastal habitats - C.

Vulpia unilateralis (L.) Stace [*Vulpia hispanica* (Reichard) Kerguélen subsp. *hispanica*; *Nardurus maritimus* (L.) Murb.] — arid meadows, M. Corno (Crugnola 1900 as "*Nardurus unilateralis* Fries" from a specimen collected by Petrilli), Tagliacozzo (Fiori 1923-29 as "*Nardurus maritimus* var. *hispanicus*"), near L'Aquila [Lusina 1952 as "*Nardurus maritimus* var. *aristatus* (Koch) Hayek"], near Sperone! (Conti 1995).

Festuca paniculata (L.) Schinz & Thell. subsp. *paniculata* (*Festuca spadicea* auct. fl. ital.) — montane pastures, M. ti della Laga!, M. dei Fiori!, Gran Sasso (Mauri & al. 1830, Tenore 1831-42, Bertoloni 1833-54, Parlato 1848-96, Villani 1921, Furrer 1928, Lüdi 1943, Zodda 1953, Longhitano & Ronsisvalle 1974, Pedrotti 1981, 1982a, Fascetti & Veri 1983, Veri 1983, Tammaro 1995), Parco Nazionale d'Abruzzo (Anzalone & Bazzichelli 1960), Velino (Avena & Blasi 1974, Blasi & al. 1990, Petriccione 1993), Capistrello (Veri 1988), Sirente (Guarrera & Tammaro 1994), territory of the Altipiani (Pirone 1997b), M. Genzana!

Festuca gigantea (L.) Vill. — humid woods, in the woods of Abruzzo (Tenore 1831-42 as "*Bromus giganteus*"), Camosciara (Anzalone & Bazzichelli 1960), Tagliacozzo (Veri 1988), territory of Rivisondoli (Pirone 1997b).

Festuca altissima All. — *Fagus sylvatica* woods, Val Fondillo as "*F. sylvatica* Vill." (Anzalone & Bazzichelli 1960), Pietracamela, Bosco Martese (Zodda 1967), Sirente (Veri & Tammaro 1980), Tagliacozzo (Veri 1988), Serra Lunga near Collelongo (Scoppola & Modena 1997).

Festuca drymeia Mert. & Koch — open woods, M. Corno, Gran Sasso where it is very rare [Crugnola 1900, Zodda 1967 as "*F. montana* M. B. var. *exaltata* (Presl)", Tammaro 1983c], *Quercus ilex* wood of Torino di Sangro! (Tammaro & Poldini 1988), Torrebruna, Celenza on Trigno, Castiglione Messer Marino, Rosello, Monte Moresco near Torricella Peligna (Conti & al. in press).

Festuca pratensis Huds. subsp. *apennina* (De Not.) Hegi — meadows - C - The reports from the Apennines (Foggi in litt.) are to be referred to this subspecies.

Festuca arundinacea Schreb. subsp. *arundinacea* — humid meadows - C.

Festuca arundinacea subsp. *fenas* (Lag.) Arcang. — fields, uncultivated land, humid environments, Gran Sasso (Barbagallo & Guglielmo 1975a as "*F. elatior* L. var. *fenas* Lag."), Valle di Sevice (Lucchese & Lattanzi 1991).

Festuca dimorpha Guss. — Near endem. - screes - C.

Festuca bosniaca Kumm. & Sendtn. subsp. *bosniaca* — stony slopes, M. Argatone! (Conti 1995), Marsicano (from a specimen collected by Rosati), Capistrello (Fortini & al. 1995), La Cicerana!, M. Petroso!, M. Genzana! Some reports of *F. varia* Haenke from Le Moricane (Tenore 1831-42), Forca d'Acero [Fiori 1923-29 as "*F. pumila* Chaix var. *varia* (Haenke)"] could be referred to *F. bosniaca* subsp. *bosniaca*. Nevertheless a taxon of gr. *varia*, not to be referred to *F. bosniaca*, occurs on Gran Sasso (Corno Grande) and it needs further investigation (Foggi in litt.).

Festuca rubra L. subsp. *junceae* (Hack.) K. Richt. — meadows and pastures - C.

Festuca rubra subsp. *commutata* (Gaudin) Markgr.-Dann. (*F. nigrescens* Lam.) — acidophilous pastures, Gran Sasso (Matteucci & Martelli 1894, Furrer & Furnari 1960, Catonica 1997), M. Petroso (Bazzichelli & Furnari 1970).

Festuca rubra subsp. *microphylla* (St. Yves) Markgr.-Dann. — snowbed meadows - NC.

Festuca trichophylla (Ducros ex Gaudin) K. Richt. subsp. *asperifolia* (St. Yves) Al Bermani & Stace — montane stony pastures - NC.

Festuca heteromalla Pourret — mesophilous pastures, drainage canals of melting waters, Campo Pericoli (Catonica 1997 as "*Festuca diffusa* Dumort."). Generally used along the ski tracks with seeds coming from N. Europe and from Canada (Foggi in litt.), therefore it could be naturalized.

Festuca cyrnea (St. Yves & Litard) Markgr.-Dann. — Endem. Ap.-Sa-Co - pastures, Majella (Tammaro 1986a).

Festuca heterophylla Lam. subsp. *heterophylla* — woods - C.

Festuca violacea Gaudin subsp. *italica* Foggi, Graz. Rossi & Signorini [*F. violacea* Gaudin subsp. *macrathera* Auct. fl. ital non Hack.] — Endem. C. S. Ap. - meadows

at high altitude - C - Endemic species found from the Sibillini to Pollino (Foggi & al. in press). *Festuca puccinellii* Parl. is reported from the Gran Sasso, Parco Nazionale d'Abruzzo, Majella and M.ti della Laga (Catonica 1997, Di Pietro & al. 1997), it is probably to be excluded from C. S. Apennines and probably to be referred to this taxon (Foggi in litt.).

Festuca gr. *ovina* - as "*F. ovina* L. var. *duriuscula* (L.)" — Teramo province and Parco Nazionale d'Abruzzo (Zodda 1967, Chiosi 1975 from a specimen collected by Marchesetti, Anzalone & Bazzichelli 1960). as "*F. ovina* L. *glauca* Lam.", Gran Sasso, M.ti della Laga (Zodda 1967), Gole di Popoli (Tammaro 1971a). Zodda (1967) reports also other varieties which doubtfully occur. Catonica (1997) found in different localities of Gran Sasso a new species belonging to this group but he has not yet given a binomial.

Festuca inops De Not. — Endem. N. C. Ap. - thermophilous stony pastures - C - *Festuca pallens* Host is reported from arid and stony pastures of the southern side of Gran Sasso (Catonica 1997). Its occurrence is to be confirmed and the taxon is to be compared with *F. inops* (Foggi in litt.).

Festuca cinerea Vill. — arid and stony pastures, southern side of Gran Sasso (Catonica 1997).

Festuca filiformis Pourr. (*F. tenuifolia* Sibth.) — Majella (Tenore 1831-42 as "*F. capillata* Lam."), M. Corno, Pietracamela, Rio Arno, M. Brancastello, Bosco Martese (Zodda 1953 as "*F. ovina*"). According to Pignatti (1982) the species only occurs in Alps, N. Apennines and Apuan Alps.

Festuca alfrediana Foggi & Signorini [*F. alpina* Suter subsp. *briquetii* (St.-Yves ex Litard.) Markgr.-Dann.; *F. vizzavonae* Auct. Fl. Ital. non Ronniger] — stony slopes, cliffs at high altitude - Gran Sasso (Furrer & Furnari 1960, Zodda 1967 as "*F. ovina* var. *alpina*"), Pizzo di Sevo (Pedrotti 1983a as "*F. vizzavonae*"), Majella! (Tammaro 1986a, Foggi & Signorini 1997), Velino (Petriccione 1993), Meta! (Conti 1995). "*Festuca alpina* subsp. *rivierae* Chas, Kerguelen & Plonka" was reported in Gran Sasso from Passo Portella to the top of Corno Grande and Majella at Feudo d'Ugni (Catonica 1997) but probably it is to be referred to this taxon.

Festuca laevigata Gaudin subsp. *laevigata* (*Festuca curvula* Gaudin subsp. *curvula*) — stony pastures - It is worth investigating the distribution of this species, probably rarer than *F. laevigata* subsp. *crassifolia* whose occurrence was ascertained by Catonica (1997) and Foggi (in litt.).

Festuca laevigata subsp. *crassifolia* (Gaudin) Kerguelen & Plonka — stony pastures - CC - *Festuca robustifolia* Markgr.-Dann. could occur only in ophiolites and serpentines in Tuscany. The populations of C. Apennines are referred to this taxon, waiting for further investigation (Foggi in litt.).

Festuca centro-apenninica (Markgr.-Dann.) Markgr.-Dann. ex Foggi, F. Conti & Pignatti sp. nova + basion.: *F. ovina* L. var. *centro-apenninica* Markgr.-Dann., Arch. Bot.

Biogeogr. Ital., 48 (1-2): 25 (1972) — Typus: Pian Grande, 9.7.1970, leg. F. Pedrotti & A. Palotta. Holotypus in Z! + *F. centro-apenninica* (Markgr.-Dann.) Markgr.-Dann. ex Pignatti in Pignatti, Fl. Ital., 3: 498 (1982) invalid name Art. 33.2, Tokyo-Code — Endem. C. Ap. - stony slopes - NC.

Festuca pseudodura Steud. — Endem. Alps-Ap. - arid pastures on sandstone, Lago di Campotosto (Catonica 1997).

Festuca circummediterranea Patzke — stony slopes - CC.

Catapodium marinum (L.) C. E. Hubb. [*Desmazeria marina* (L.) Druce] — arid uncultivated land of coast - NC.

Catapodium rigidum (L.) C. E. Hubb. [*Desmazeria rigida* (L.) Tutin] — arid meadows and uncultivated land - CC - *Catapodium hemipoa* (Delile) Lainz was reported from Teramo (Zodda 1967) but according to Kerguelen (Banfi in litt.) the typus of this taxon refers to a N. African species, not occurring in Europe and our populations should be referred only to *C. rigidum*.

Ampelodesmos mauritanicus (Poir.) T. Durand & Schinz — garigue along the coast and in the surrounding hills - C.

Cortaderia selloana (Schult.) Asch. & Graebn. — uncultivated land, naturalized at Pescara (Pirone & al. in press).

Sesleria autumnalis (Scop.) F. W. Schultz — open woods, Majella (Parlatore 1848-96 as “*S. argentea* Savi”, Cesati 1873, Villani 1921), Parco Nazionale d’Abruzzo! [Anzalone & Bazzichelli 1960 as “*S. coerulea* Ard. *argentea* (Savi)”, Conti 1995, Scoppola & Modena 1997], M. Gorzano and M. di Campli to Costa dell’Elce (Zodda 1967), Morino (Veri 1988), Velino in Val di Teve (Lucchese & Lattanzi 1991), Simbruini at Canistro (Guarrera & al. 1995).

Sesleria nitida Ten. — Endem. C. S. Ap.-Si - stony pastures - CC.

Sesleria uliginosa Opiz — cool pastures, Campo Imperatore (Catonica 1997).

Sesleria tenuifolia Schrad. subsp. *tenuifolia* — stony slopes - CC.

Echinaria capitata (L.) Desf. — arid meadows - NC.

Melica ciliata L. subsp. *ciliata* — arid meadows - C - “var. *glauca* (F. Schultz)” and “var. *nebrodensis* (Parl.)” (Zodda 1967) are reported.

Melica ciliata subsp. *magnolii* (Gren & Godr.) K. Richter (*M. magnolii* Gren & Godr.) — arid slopes, garigue - NC.

Melica transsilvanica Schur subsp. *transsilvanica* — arid meadows - C.

Melica uniflora Retz. — woods - CC.

Melica nutans L. — *Fagus sylvatica* woods, Velino (Petriccione 1993), territory of Rivisondoli (Pignatti 1977), Camosciara! (Conti & Minutillo 1996), Majella in Valle di Fara S. Martino!

Melica minuta L. (incl. *M. arrecta* O. Kuntze) — termophilous woods of the coast and the hill, Montesilvano at Colle Belvedere (Pirone 1985), Pineta d'Avalos! and S. Vito Chietino! (Conti & Pirone 1987). It is commonly stated that the characters that differ Kuntze's taxon from Linnaeus' are a monoallelic expression subject to a continuous and casual flux of populations (i.e. the retrorse or anthrorse direction of the teeth of the setules in *Setaria verticillata*), therefore only one species should exist: *M. minuta* (Banfi in litt.).

Glyceria maxima (Hartman) Holmberg — riversides of F. Pescara (Tenore 1831-42 as "*Poa aquatica*") but not disappeared (Tammaro & Pirone 1979), F. Tirino (Tammaro 1995), Lago di Ortucchio (Tammaro & al. 1995).

Glyceria fluitans (L.) R. Br. — ditches and marshes - NC.

Glyceria notata Chevall. [*G. plicata* (Fr.) Fr.] — ditches, watercourses, marshy environments - C.

Puccinellia festuciformis (Host) Parl. [*P. palustris* (Seen.) Hayek] — Giulianova (Mauri & al. 1830 as "*Poa festucaeformis*") where it seems extinct (Pirone & Conti 1996).

Puccinellia convoluta (Hornem.) Hayek — saline environments of the coast. Pignatti (1982) reports it without indicating the exact locality.

Puccinellia fasciculata (Torrey) E. P. Bicknell [*P. borrieri* (Balb.) Hayek] — saline environments of the coast, "Martinsicuro in Tronto" [Zodda 1953 as "*Glyceria distans* Whlbg var. *borrieri* (Bab.)"], Marina di Vasto (Pirone 1995b).

Catabrosa aquatica (L.) Beauvais — humid meadows - NC.

Cutandia maritima (L.) Richter — beaches and sandy uncultivated land - C.

Cutandia divaricata (Desf.) Benth. — Giulianova (Tenore 1831-42 as "*Festuca divaricata* Desf.") where it seems extinct (Pirone & Conti 1996).

Psilurus incurvus (Gouan) Schinz & Thell. — arid meadows, sandy uncultivated land - C.

Parapholis incurva (L.) C. E. Hubb. — coast sands - C.

Parapholis strigosa (Dumort.) C. E. Hubb. — coast sands - NC.

Pholiurus pannonicus (Host) Trin. — Giulianova and Pescara as "*Rottboella pannonica*" (Mauri & al. 1830, Tenore 1831-42). Not found recently and to be confirmed.

Lolium temulentum L. subsp. *temulentum* — fields - C.

Lolium rigidum Gaudin subsp. *rigidum* — fields, arid pastures - NC.

Lolium rigidum subsp. *lepturoides* (Boiss.) Sennen & Mauricio [*L. loliaceum* (Bory & Chaub.) Hand.-Mazz.] — subsaline uncultivated land of the coast, Silvi Marina [Zodda 1953 as "*L. perenne* L. var. *subulatum* (Vis.) Fiori"].

Lolium multiflorum Lam. subsp. *multiflorum* — meadows, uncultivated land, Pietracamela, near Teramo, Penne [Zodda 1953 as "*L. perenne* L. var. *multiflorum* (Lk.)"], Canistro and Civitella Roveto (Veri 1988).

Lolium multiflorum Lam. subsp. *gaudini* (Parl.) Schinz & Thell. — arid uncultivated land - NC.

Lolium perenne L. — uncultivated land, ruderal environments - C.

Bromus erectus Huds. subsp. *erectus* — meadows and arid pastures - CC - *B. caprinus* A. Kern., *B. transsylvanicus* Steudel, *B. stenophyllus* Link belong to the population variability of *B. erectus* (Banfi in litt.).

Bromus erectus subsp. *longiflorus* (Willd.) Arcang. — arid meadows - NC.

Bromus inermis Leyss. — borders of the roads, Quarto di S. Chiara! (Conti & Pellegrini 1988).

Bromus ramosus Huds. — woods - CC.

Bromus benekenii (Lange) Trimen — woods - NC.

Bromus rubens L. — arid uncultivated land, ruins - NC.

Bromus tectorum L. subsp. *tectorum* — arid uncultivated land - C.

Bromus sterilis L. — arid uncultivated land - CC - *B. scaberrimus* Ten., doubtfully autonomous taxon, perhaps of hybridogen origin is reported (Pignatti 1982).

Bromus madritensis L. — arid uncultivated land, ruins - C.

Bromus rigidus Roth — arid uncultivated land, ruins - NC.

Bromus diandrus Roth — arid uncultivated land - C.

Bromus lanceolatus Roth — fields, ruins, arid uncultivated land, Velino (Tenore 1831-42, Lucchese & Lattanzi 1991), Rocca Calascio (Fascetti & Veri 1983), Sirente (Guarrera & Tammaro 1994), erosion furrows of Atesa (Pirone 1995a), southern side of Abruzzo (Parlatore 1848-96 as "*Serrafalcus macrostachys* Parl.") which could be also Molise.

Bromus intermedius Guss. — arid pastures - C.

Bromus arvensis L. subsp. *arvensis* — fields, ruins - NC.

Bromus squarrosus L. — uncultivated land, arid meadows - C.

Bromus japonicus Thunb. ex Murray subsp. *japonicus* — Gioia Vecchio, Gioia dei Marsi, Villetta Barrea [Anzalone & Bazzichelli 1960 as "*B. arvensis* var. *japonicus* (Thunb.)"], Gran Sasso, Teramo province [Lusina 1949, Zodda 1953, 1967 as "*B. arvensis* L. var. *japonicus* (Thurk.)"].

Bromus hordeaceus L. subsp. *hordeaceus* — meadows - C.

Bromus molliformis Lloyd — garigue, Montorio al Vomano [Zodda 1967 as "*B. hordeaceus* L. var. *molliformis* (Lloyd)"], Marsica in the localities with *Phlomis fruticosa* (Pirone 1995c).

Bromus racemosus L. — meadows - C.

Bromus commutatus Schrad. subsp. *commutatus* — uncultivated land - C.

Bromus secalinus L. — fields - NC.

Bromus grossus Desf. ex DC. — fields - Pignatti (1982).

Brachypodium sylvaticum (Huds.) Beauvais subsp. *sylvaticum* — open woods - CC.

Brachypodium rupestre (Host) Roem. & Schult. — stony slopes, arid pastures - CC.

Brachypodium genuense (DC.) Roem. & Schult. — Endem. Ap. - arid pastures - CC.

Brachypodium phoenicoides (L.) Roem. & Schult. — Cortino at Pagliaroli [Zodda 1967 as "*B. pinnatum* PB. var. *phoenicoides* (R. & S.)"]. Its occurrence in these localities is doubtful. In Italy it occurs only in the Tyrrhenian side (Lucchese 1990a). Nevertheless it has been recently found at Pescara (Pirone & al. in press).

Brachypodium retusum (Pers.) Beauvais (*B. ramosus* Roem. & Schult.) — Intermesoli at Prato Rotondo [Zodda 1967 as "*B. pinnatum* PB. var. *ramosum* (R. & S.)"], Montesilvano at Colle Belvedere (Pirone 1985).

Brachypodium distachyon (L.) Beauvais — arid meadows - C.

Hordelymus europaeus (L.) Harz — *Fagus sylvatica* woods - NC.

Hordeum secalinum Schreb. — humid meadows, Forca di Valle (Crugnola 1900, Zodda 1953 from Petrilli's herbarium), Pescasseroli Plain (Pedrotti & al. 1992), territory of Rivisondoli (Pirone 1997b), Capo Pescara (Pirone & al. 1997).

Hordeum bulbosum L. — uncultivated land - NC.

Hordeum marinum Huds. (*H. maritimum* With.) — subsaline uncultivated land - NC.

Hordeum murinum L. subsp. *murinum* — ruderal environments - C.

Hordeum murinum subsp. *leporinum* (Link) Arcang. (*H. leporinum* Link) — ruderal environments, arid uncultivated land - C.

Hordeum vulgare L. — naturalized - NC.

Agropyron cristatum (L.) P. Gaertn. subsp. *pectinatum* (M. Bieb.) Tzvelev [*A. pectiniforme* Roem. & Shult.; *A. pectinatum* (Bieb.) Beauvais] — arid uncultivated land, F. Tronto near Colonnella (Argenti & Pirone 1987).

Elymus caninus (L.) L. subsp. *caninus* [*A. caninum* (L.) Beauvais] — open woods - C.

Elytrigia juncea (L.) Nevski [*A. junceum* (L.) Beauvais] — coastal dunes - NC.

Elytrigia repens (L.) Nevski subsp. *repens* [*A. repens* (L.) Beauvais] — uncultivated land, arid meadows - C.

Elytrigia atherica (Link) Kerg. [*A. pungens* auct. ital.] — arid uncultivated land - C.

Elytrigia intermedia (Host) Nevski [*A. intermedium* (Host) Beauvais; incl. *Agropyron trichophorum* (Link) Richt.] — arid uncultivated land - NC.

Secale montanum Guss. [*S. strictum* (Presl) Strobl] — uncultivated land, ruins, Laga at Bosco Martese [Zodda 1953, 1959b as "*S. cereale* var. *montanum* (Guss.)"], Valle Ciavolara! (Conti 1995).

Secale cereale L. — C. Asiat. - naturalized - NC.

Dasyphyrum villosum (L.) P. Candargy — arid uncultivated areas and pastures - C.

Triticum aestivum L. — naturalized.

Aegilops geniculata Roth — arid meadows - C.

Aegilops neglecta Req. ex Bertol. — Gissi (van Slageren 1994 from a specimen collected by Caruel in TO). It must be verified if Caruel has ever collected some plants at Gissi or if there has been some mistake in the transcription.

Aegilops ventricosa Tausch (*Ae. fragilis* Parl.) — arid uncultivated land, bed of F. Tordino near the bridge of Notaresco [Zodda 1953 as "*Ae. ventricosa* Tausch. var. *fragilis* (Parl.)"].

Aegilops triuncialis L. — L'Aquila (Gussone 1826) and generally reported from the

Abruzzo (Tenore 1831-42) and to be confirmed.

× *Aegilotriticum triticoides* (Req.) Maire & Weill. — L'Aquila (Parlatore 1848-96) and to be confirmed.

Monerma cylindrica (Willd.) Coss. & Durieu [*Hainardia cylindrica* (Willd.) Greuter] — clayey uncultivated land - NC.

Avena barbata Potter subsp. *barbata* — meadows and uncultivated land - NC.

Avena fatua L. — arid uncultivated land, fields - C.

Avena sterilis L. subsp. *sterilis* — meadows, fields - C.

Avena sterilis subsp. *ludoviciana* (Durieu) Gillet & Magne — erosion furrows, near Gessopalena (Biondi & al. 1990).

Avena sativa L. subsp. *sativa* — naturalized.

Helictotrichon praeustum (Rchb.) Tsvelev — Abruzzo Mts (Tenore 1831-42 as "*Bromus cinnatus*"). According to Grande (1925) it is to be referred to *Avena planiculmis* Schrad. which, following Fiori (1923-29) and Pignatti (1982) should be referred to "*Avenula praeusta* (Rchb.) Holub". Not found recently and to be confirmed.

Helictotrichon pratense (L.) Besser subsp. *pratense* [*Avenula pratensis* (L.) Dumort.] — Pescasseroli (Montelucci 1958 from a specimen collected by Fiori), Gran Sasso and M. dei Fiori (Mauri & al. 1830, Tenore 1831-42 as "*Avena pratensis*", Zodda 1953, 1967), Gole di Popoli (Tammaro 1971a). According to Pignatti (1982) it is to be confirmed.

Helictotrichon pubescens (Huds.) Pilg. subsp. *pubescens* [*Avenula pubescens* (Huds.) Dumort.] — arid meadows. Grande (1925) excludes it from *Flora Neapolitana* because there are no herbarium specimens referring to Tenore's reports (1811-38) but it has been furthermore found at Pietracamela, M. Tre Croci all'Acqua chiara (Zodda 1953, 1961a, 1967 as "*Avena pubescens* Huds."), Majella (Tammaro 1986a), Velino (Lucchese & Lattanzi 1991), Sirente (Guarrera & Tammaro 1994).

Helictotrichon praetutianum (Parl. ex Arcang.) Röser [*Avenula praetutiana* (Parl. ex Arcang.) Pignatti; *H. versicolor* (Vill.) Pilg. subsp. *praetutianum* (Arcang.) Cela Renzoni] — Endem. Ap. - meadows at high altitude, stony slopes.

Helictotrichon versicolor (Vill.) Pilg. subsp. *versicolor* [*A. versicolor* (Vill.) Lainz] — pastures at high altitude, Gran Sasso, M. dei Fiori (Bertoloni 1833-54, Parlatore 1848-96 as "*Avena scheuchzeri* All.", Zodda 1967, Pignatti 1982, Tammaro 1995), Pizzo di Sevo and Majella (Parlatore 1848-96 as "*Avena scheuchzeri* All.", Villani 1921).

Helictotrichon convolutum (Presl.) Henrard — arid pastures, Velino (Mauri & al. 1830 as

"*Avena fallax*"), Pietracamela along Rio Arno and at Giunghiera [Zodda 1953 as "*Avena sempervirens* Vill. var. *filifolia* (Lag.)"].

Arrhenatherum elatius (L.) Beauvais subsp. *elatius* — meadows - C.

Arrhenatherum elatius subsp. *bulbosum* (Willd.) Schubler & Martens — meadows - NC.

Danthonia decumbens (L.) DC. subsp. *decumbens* — humid pastures, meadows at high altitude - NC.

Gaudinia fragilis (L.) Beauvais — humid meadows, Castiglione della Valle, Montorio al Vomano, Teramo in F. Vezzola bed (Crugnola 1900, Zodda 1953).

Ventenata dubia (Leers) Coss. — M. dei Campi, M. dei Fiori (Crugnola 1894) and Gran Sasso (Tammaro 1983c).

Holcus lanatus L. — humid meadows - C.

Holcus mollis L. — uncultivated land, "luoghi sterili e montuosi del Sannio e degli Abruzzi" (Parlatore 1848-96), Camosciara (Anzalone & Bazzichelli 1960).

Koeleria lobata (M. Bieb.) Roem. & Schult. (*K. splendens* C.Presl.) — arid and stony pastures - CC - Tenore's reports of "*K. pyramidata* (Lam.) Domin" are to be referred to this taxon (Grande 1924a). The reports from Plicanti, Valletta della Storna, Bosco Martese are to be checked (Abbate 1903 as "*K. cristata* Pers.").

Koeleria macrantha (Ledeb.) Sprengel — arid meadows - NC.

Rostraria litorea (All.) Holub [*Lophochloa pubescens* (Lam.) Scholz] — sandy uncultivated land - NC.

Rostraria cristata (L.) Tzvelev [*Lophochloa cristata* (L.) Hyl.] — arid and stony pastures - C.

Rostraria hispida (Savi) Dogan [*Lophochloa hispida* (Savi) Pignatti] — Francavilla (Bertoloni 1833-54 as "*Festuca hispida*") where it seems extinct (Pirone & Conti 1996).

Trisetaria villosa (Bertol.) Banfi & Soldano [*Trisetum bertolonii* Jonsell; *T. villosum* (Bertol.) Schult.] — Endem. C. Ap. - cliffs, Gran Sasso, M. dei Fiori (Gussone 1826 as "*Avena villosa*", Tenore 1831-42 as "*Avena villosa* Bert.", Bertoloni 1833-54 as "*Avena villosa*", Parlatore 1848-96, Villani 1921, Zodda 1953, 1967, Furrer & Furnari 1960, Bazzichelli 1960, Tammaro 1995), M. Meta! (Fiori 1923-29), Majella (Tammaro 1986a), Camosciara!

Trisetaria flavescens (L.) Baumg. [*Trisetum flavescens* (L.) Beauvais] — cool woods - C.

Trisetaria panicea (Lam.) Maire — arid uncultivated land - NC.

Trisetaria segetum (Savi) Soldano [*T. parviflora* (Desf.) Maire] — uncultivated and cultivated land - NC.

Trisetaria michelii (Savi) Banfi & F. Conti comb. nov. + Basion.: *Bromus michelii* Savi, Bot. etrusc., 1: 78 (1808) + *Avellinia michelii* (Savi) Parl. — coastal sands. Pignatti (1982) reported it from the Abruzzo, but exact locality not indicated.

Agrostis rupestris All. — alpine pastures, Gorzano and Pizzo di Moscio (Zodda 1953), Gran Sasso (M. Cristo) (Barbagallo & Guglielmo 1975b) and Majella (Migliaccio 1970).

Agrostis canina L. — peaty meadows - NC.

Agrostis stolonifera L. — humid meadows - CC - subsp. *maritima* Meyer is reported from Teramo and Silvi (Zodda 1967 as "*A. alba* var. *maritima* Lam.>").

Agrostis gigantea Roth — Capo Pescara (Pirone & al. 1997).

Agrostis castellana Boiss. & Reuter — glades, humid uncultivated land, Teramo, Martinsicuro, M.ti della Laga and Gran Sasso [Abbate 1903 as "*A. patula* Gaud.", Zodda 1953, 1957, 1967 as "*A. alba* var. *castellana* (Bss. & R.)", as "*A. alba* var. *frondosa* (Ten.)" and as "*A. alba* var. *olivetorum* Gr. & Godr.", Barbagallo & Guglielmo 1975a]. Grande (1925) regards *A. frondosa* as synonym of *A. alba* while according to Pignatti (1982) it is to be referred doubtfully to this taxon.

Agrostis capillaris L. — pastures - C.

Agrostis schraderiana Becherer [*Agrostis agrostiflora* (G. Beck) Rausch.] — pastures, Campo Imperatore (Tammaro 1995).

Calamagrostis varia (Schrud.) Host subsp. *varia* — open woods, glades - C.

Calamagrostis arundinacea (L.) Roth — woods - NC.

Calamagrostis epigejos (L.) Roth — glades, open woods - NC.

Calamagrostis pseudophragmites (Haller f.) Koeler — S. Nicola at M. Corno (Mauri & al. 1830 as "*Arundo halleriana* Gaudin"). Not found recently and to be confirmed.

Apera spica-venti (L.) Beauvais — cultivated land - NC.

Apera interrupta (L.) Beauvais — fields, arid uncultivated land, Velino, as "*Agrostis interrupta* L." (Bertoloni 1833-54, Parlato 1848-96), Capestrano in Colledara (Conti & al. in press).

Gastridium ventricosum (Gouan) Schinz & Thell. — arid uncultivated land, maquis - PC.

Polypogon viridis (Gouan) Breistr. — humid sands, riversides - NC.

Polypogon monspeliensis (L.) Desf. — humid and subsaline soils - NC.

Polypogon maritimus Willd. — humid and subsaline soils, mouth of F. Vomano, Faro di Vasto, Marina di Vasto (Pirone 1995b), mouth of F. Sangro (Tammaro & al. 1996), Marina di S. Salvo!

Lagurus ovatus L. — sandy and arid uncultivated land, coastal dunes - C.

Aira caryophyllea L. subsp. *caryophyllea* — arid meadows - NC.

Aira cupaniana Guss. — Zodda (1945) mentions a specimen of “*A. capillaris* var. *cupaniana* (Guss.)” of Quartapelle’s herbarium but of unknown origin. To be confirmed.

Aira elegantissima Schur (*A. elegans* Willd.) — arid uncultivated areas, pastures - NC.

Deschampsia caespitosa (L.) Beauvais subsp. *caespitosa* — humid meadows - C.

Deschampsia flexuosa (L.) Trin. [*Avenella flexuosa* (L.) Parl.] — woods - NC.

Molinia coerulea (L.) Moench. subsp. *coerulea* — peaty humid meadows - NC.

Molinia coerulea subsp. *arundinacea* (Schränk) H. Paul (*M. arundinacea* Schränk) — humid meadows, Castelli and high part of F. Tordino between Lama and Piano Fiumata [Zodda 1965b, 1967 as “*M. caerulea* Moench var. *arundinacea* (Schränk)”], Zompo lo Schioppo near Morino (Guarrera & al. 1995).

Ammophila arenaria (L.) Link subsp. *australis* (Mabille) Lainz [*A. littoralis* (Beauvais) Rothm.] — coastal dunes - NC.

Phragmites australis (Cav.) Trin. ex Steudel — humid environments - CC.

Arundo donax L. — naturalized - C.

Arundo plinii Turra — clayey slopes - C.

Kengia serotina (L.) Packer [*Cleistogenes serotina* (L.) Keng] — stony and arid meadows - C.

Phalaris arundinacea L. subsp. *arundinacea* [*Typhoides arundinacea* (L.) Moench] — humid meadows, riversides, Abruzzo (Tenore 1831-42), Teramo at Villa Vomano (Zodda 1964), Pescocostanzo, Rivisondoli, Pizzoli, F. Pescara near Popoli, Villareia and S. Teresa di Spoltore, near Castel di Sangro at Zittola (Gussone 1826, Abbate 1903, Baldini 1993 from a specimen collected by Gussone as “Campania”, Pirone 1997b, Buchwald 1995), Quarto di S. Chiara (Manzi 1992a), Lagozzo! (Conti 1995). Baldini (1993) reports var. *arundinacea*.

Phalaris aquatica L. — uncultivated land, Cepagatti (Pirone 1987c as “*Ph. bulbosa* L.”,

Baldini 1993 from a specimen collected by Pirone).

Phalaris coerulescens Desf. — uncultivated land, Sirente (Groves 1880), Giulianova (Zodda 1967 from D'Amato), erosion furrows of Gessopalena (Biondi & al. 1990).

Phalaris paradoxa L. — hedges, uncultivated land, Roseto, Tordino and riversides of F. Tronto, agro Pennese (Zodda 1953, 1964, 1967), Valle del T. Piomba, Valle del T. Calvano (Pirone 1981b), erosion furrows of Gessopalena (Biondi & al. 1990), erosion furrows of Atesa (Pirone 1995a).

Phalaris minor Retz — uncultivated land, Teramo, Penne (Zodda 1953, 1967).

Phalaris canariensis L. — Macarones. — naturalized - uncultivated land - NC.

Phalaris brachystachys Link — fields - NC.

Anthoxanthum odoratum L. — meadows - CC.

Anthoxanthum alpinum A. & D. Löve — pastures at high altitude - NC.

Alopecurus alpinus Vill. (*A. gerardi* Vill.) — snowbed meadows, M.ti della Laga!, Gran Sasso! (Mauri & al. 1830 as "*Phleum gerardi*", Bertoloni 1833-54, Parlatore 1848-96, Zodda 1953, 1967, Furrer & Furnari 1960, Pedrotti 1982a, 1983a), Morrone and Parco Nazionale d'Abruzzo! (Tenore & Gussone 1842, Parlatore 1848-96, Bassani 1992).

Alopecurus rendlei Eig (*A. utriculatus* Auct. Ital.). — humid meadows - NC.

Alopecurus aequalis Sobol. — marshy environments, Rivisondoli, Quarto di S. Chiara (Pirone 1987c as "*A. geniculatus* L."), meadows of Sirente (Guarrera & Tammaro 1994 as "*A. geniculatus*"), Lago di Campotosto!, Campo Imperatore!, Piano delle Cinquemiglia!, Piano Aremogna!, Laghetto di S. Stefano di Sessanio (Buchwald 1995 as *A. geniculatus*, Conti 1995), Lago Pantaniello!, Altopiano delle Rocche in Val d'Arano!, Voltigno! Previous reports of *A. geniculatus* from Apennines and Alps are to be referred to *A. aequalis* while *A. geniculatus* occurs only in three localities of Trentino (Conti 1997a).

Alopecurus bulbosus Gouan — marshy meadows - NC.

Alopecurus pratensis L. subsp. *pratensis* — humid meadows - C.

Alopecurus arundinaceus Poir. — humid meadows, Gran Sasso at Pietracamela along Rio Arno (Zodda 1953, 1967 as "*A. pratensis* var. *ventricosum* Pers.").

Alopecurus myosuroides Huds. — Subcosmop. — Adv. nat. — uncultivated land, fields - CC.

Phleum arenarium L. — coastal dunes - NC.

Phleum subulatum (Savi) Asch. & Graebn. subsp. *subulatum* — uncultivated land, arid pastures - NC.

Phleum hirsutum Honck. — M.ti della Laga, M. dei Fiori and Gran Sasso, Majella (Tenore 1831-42, Bertoloni 1833-54, Lusina 1949, Zodda 1953, 1967 as "*Ph. michelii* All.", Barbagallo & Guglielmo 1975a), Gole di Popoli (Tammaro 1971a). To be confirmed because it could have been confused with "*Ph. ambiguum*".

Phleum ambiguum Ten. — Endem. App.-Si - arid pastures - CC.

Phleum paniculatum Huds. — arid pastures - NC.

Phleum echinatum Host — sandy coastal habitats, Francavilla al mare (Parlatore 1848-96) where it was no longer found and could be extinct.

Phleum pratense L. subsp. *pratense* — cool meadows - C.

Phleum pratense L. subsp. *serotinum* (Jord.) Berher [*Ph. pratense* subsp. *bertolonii* (DC.) Bornm.] — meadows - C.

Phleum alpinum L. subsp. *rhaeticum* Humphries — pastures at high altitude - C.

Spartina juncea (Michx.) Willd. — humid sands, mouth of T. Piomba, mouth of F. Saline and between Vasto and S. Salvo! (Pirone 1987c, Conti & al. 1990, Pirone 1995b).

Stipa bromoides (L.) Dörfel. — maquis, garigue - NC.

Stipa capensis Thunb. — arid meadows, M. Scarafano, Barisciano (Guarrera & al. 1995, Tammaro 1995), near the sources of F. Pescara (Pirone & al. 1997), Capestrano! (Conti & al. in press).

Stipa pennata L. subsp. *pennata* — M. Petrella from a specimen collected by Orsini dating back to last century (Moraldo 1986). To be confirmed.

Stipa pennata subsp. *eriocaulis* (Borbás) Martinovsky & Skalicky — Majella (Tammaro 1986a), Velino in Valle di Teve (Lucchese & Lattanzi 1991), Gran Sasso (Tammaro 1995), Marsica in the localities with *Phlomis fruticosa* (Pirone 1995c), Badia Sulmonese, between Raiano and Goriano Sicoli, Capo Pescara, Capestrano, between Ofena and Villa S. Lucia, between Sulmona and Cansano, between Sulmona and Pacentro, Lentella (Pirone & Tammaro 1997). According to Moraldo (1986) it occurs only in Alps and Liguria.

Stipa pulcherrima Koch — Gole di Popoli (Tammaro 1971a) and Parco Nazionale d'Abruzzo (Gole di Barrea and Villavallalonga) (Anzalone & Bazzichelli 1960 as "*S. pennata* var. *mediterranea* Trin. & Rupr."). It was probably reported for confusion with "*S. dasyvaginata* subsp. *apenninicola*".

Stipa capillata L. — arid and stony slopes, Sirente (Groves 1880), Pacentro near

Sulmona, Popoli, Capo Pescara, Raiano, Capistrello, Colle Armeno, M. Salviano, basal basin of S.-Gran Sasso (Gussone 1826, Mauri & al. 1830, Tenore 1831-42, Bertoloni 1833-54, Parlatore 1848-96, Tammaro 1971a from Tenore, Tammaro 1995, Pirone & Tammaro 1997), L'Aquila province, Majella (Moraldo 1986), Velino (Petriccione 1993), Marsica! (Petriccione & al. 1993, Pirone 1995c), near Sperone!

Stipa martinovskii Moraldo — Endem. Conca Aquilana - pastures, M. S. Franco, Pizzoli, M. Pettina (Moraldo 1983, 1986).

Stipa dasyvaginata Martinovsky subsp. *apennincola* Martinovsky & Moraldo — Endem. C. S. Ap. - arid and stony meadows - C (Moraldo 1986).

Achnatherum calamagrostis (L.) Beauvais [*Stipa calamagrostis* (L.) Wahlenb.] — slopes subject to landslides, Lago di Pagliara (Zodda 1961a) and Majella in Val di Foro (Tammaro 1986a).

Piptatherum miliaceum (L.) Cosson [*Oryzopsis miliacea* (L.) Asch. & Schweinf.] — open woods - C.

Piptatherum virescens (Trin.) Boiss. [*Oryzopsis virescens* (Trin.) Beck] — scrub, hedges - Marsica near Ortucchio and Luco dei Marsi (Grande 1913, Anzalone & Bazzichelli 1960 as "*Milium paradoxum* L. var. *virescens* Fiori").

Milium effusum L. — woods, glades - NC.

Milium vernale M. Bieb. — woods, hedges - NC.

Nardus stricta L. — pastures - C.

Eragrostis pilosa (L.) Beauvais — humid sands, ruderal environments, Roseto, Pineto (Zodda 1953, 1964, 1967), between Sulmona and Raiano (Ricceri 1982).

Eragrostis cilianensis (All.) Janchen [*E. megastachya* (Koeler) Link] — cultivated and uncultivated land, common in Teramo [Zodda 1953, 1967 as "*E. megastachya* Lam. var. *major* (Host)"], Pescara, S. Valentino, Salle, Teramo, L'Aquila at Collemaggio (Ricceri 1982).

Eragrostis minor Host — Teramo, Civitella del Tronto [Zodda 1953 as "*E. megastachya* var. *minor* (Host)"]. Ricceri (1982) does not report it from the Abruzzo.

Eleusine indica (L.) Gaertn. — occasional adventitious species — uncultivated land, Casalbordino (Tammaro & Pietrocola 1974), Valle del Sinello (Viegi & al. 1990 from a specimen collected by Pietrocola), Pescara (Pirone & al. in press).

Dinebra retroflexa (Vahl) Panzer — Paleotrop. - occasional adventitious species, Pescara and Giulianova as "*D. arabica*" (Tenore 1831-42, Parlatore 1848-96) but now disappeared (Tammaro & Pirone 1979).

Sporobolus pungens (Schreb.) Kunth — coastal dunes - NC.

Crypsis aculeata (L.) Aiton — Paleosubtrop. - naturalized - near Tronto (Zodda 1967 from Brilli-Cattarini) and coast of Pescara (Mauri & al. 1830, Tenore 1831, Bertoloni 1833-54, Rigo 1877, Abbate 1903) where it is now disappeared (Tammaro & Pirone 1979). At present it seems extinct from the coast of Abruzzo (Pirone & Conti 1996).

Crypsis alopecuroides (Pill. & Mitt.) Schrad. [*Heleochloa alopecuroides* (Pill. & Mitt.) Host ex Roem.] — Piano delle Cinquemiglia, Fucino (Gussone 1826, Mauri & al. 1830, Tenore 1831-42, Bertoloni 1833-54), and generally reported from the Abruzzo, but exact locality not indicated (Parlatore 1848-96). At present it is perhaps extinct.

Crypsis schoenoides (L.) Lam. [*Heleochloa schoenoides* (L.) Host] — Abruzzo (Gussone 1826), Pescara (Mauri & al. 1830, Bertoloni 1833-54) where it seems extinct (Pirone & Conti 1996).

Cynodon dactylon (L.) Pers. — ruderal environments, uncultivated land - C.

Tragus racemosus (L.) All. — sandy uncultivated land - NC.

Panicum miliaceum L. — C. Asia - naturalized — ruderal environments, it is cultivated not everywhere (Zodda 1953), Cermignano (Zodda 1965b), Pescara (Viegi & al. 1990 from a specimen collected by Anzalone). Zodda (1967) does not confirm its occurrence in Teramo province.

Panicum capillare L. — N. Amer. — uncultivated land, ruderal environments - naturalized - NC.

Echinochloa crus-galli (L.) Beauvais — cultivated areas, humid uncultivated land, ruderal environments - C.

Brachiaria eruciformis (Sm.) Griseb. — uncultivated land, Piano delle Cinquemiglia, S. Valentino, Teramo, Penne and Chieti as "*Panicum eruciforme* Sibth." (Gussone 1826, Mauri & al. 1830, Tenore 1831-42, Parlatore 1848-96), Villa Oliveti near Pescara!

Digitaria sanguinalis (L.) Scop. — cultivated areas, sandy uncultivated land - C.

Digitaria ciliaris (Retz.) Koeler — well-irrigated cultivated areas. Pignatti (1982) reports it from the Abruzzo, but exact locality not indicated.

Digitaria ischaemum (Schweigg.) Muehlenb. — Pescara (Tenore 1831-42 as *D. humifusa*); it was not found recently and it is to be confirmed.

Paspalum dilatatum Poir. — spont. exotic — ruderal environments, Francavilla al mare (Conti & al. in press).

Paspalum distichum L. [*P. paspaloides* (Michx.) Scribner] — Neotrop. become Subcosmop. - Adv. nat. — humid environments - C.

Setaria pumila (Poir.) Schult. [*S. glauca* (L.) auct.] — fields - C.

Setaria viridis (L.) Beauvais — fields - C.

Setaria verticillata (L.) Beauvais var. *verticillata* — fields - C.

Setaria verticillata var. *ambigua* (Guss.) Parl. (*S. ambigua* Guss.) — fields - NC - the antherose teeth of the setules are not enough to make a species of it (status of monoallelic character) (Banfi in litt.).

Setaria italica (L.) Beauvais — Trop. Asia (?) — naturalized — fields - C.

Cenchrus incertus Curtis — Trop. and Subtrop. Amer. — adventitious along the sandy coast - C - Zodda (1949) reports it for the first time from Roseto degli Abruzzo, it has now become common along the whole sandy coast.

Imperata cylindrica (L.) Beauvais — humid environments, Pescara (Villani 1921), from Tronto to Vomano and Valle del Mavone (Crugnola 1900, Zodda 1953, 1967), Vasto Marina (Pirone in press).

Saccharum ravennae L. [*Erianthus ravennae* (L.) Beauvais] — retrodune depressions, coast of Teramo! (Zodda 1953, 1967, Pirone 1995b, Conti & Manzi 1996), coast of Pescara at S. Silvestro Spiaggia, Pineta di Montesilvano!, Pineta d'Avalos!, Saline (Tammaro & Pirone 1979, Pirone 1991, 1995b), mouth of F. Sangro (Gehú & al. 1984), Marina di Vasto! (Stanisci & Conti 1990), S. Salvo Marina!

Sorghum halepense (L.) Pers. — Thermocosmop. - casual alien - C.

Sorghum bicolor (L.) Moench — Paleotrop. - casual alien - NC.

Dichanthium ischaemum (L.) Roberty [*Bothriochloa ischaemum* (L.) Keng; *Andropogon ischaemon* L.] — arid meadows - C.

Hyparrhenia hirta (L.) Stapf subsp. *hirta* [*Cymbopogon hirtus* (L.) Thomson subsp. *hirtus*] — arid meadows, garigue - C.

Zea mays L. — Neotrop. - casual alien - NC.

Araceae

Arum cylindraceum Gasparr. (*A. lucanum* Cavara & Grande) — montane pastures, M. dei Fiori (Paglia 1905), between Gioia dei Marsi and Gioia Vecchio, Pescasseroli as "*A. maculatum* var. *cylindraceum* (Gasparr.)" (Vaccari & Wilczek 1940, Anzalone & Bazzichelli 1960), near Castrovalva in Colle S. Michele!, Scanno! (Conti & al. in press). It is reported also from Bosco Martese [Zodda 1953 as "*A. maculatum* var.

cylindraceum (Gasp.)”] but, according to the specimens observed, it is probably to be referred to *A. maculatum* (Bedalov & al. 1993).

Arum maculatum L. — open woods - C.

Arum italicum Mill. subsp. *italicum* — open woods, hedges, ruderal environments - CC.

Dracunculus vulgaris Schott — “A sample in Quartapelle’s herbarium collected at Castellalto, perhaps cultivated” (Zodda 1945, 1967). Not found recently and to be confirmed.

Biarum tenuifolium (L.) Schott — arid meadows, Collelongo on Cime di Annamunna (Anzalone & Bazzichelli 1960 from a specimen collected by Grande), Valle dell’Orta! (Conti 1987), Ortona dei Marsi!, Carrito!, near Lentella! (Conti & al. in press).

Arisarum vulgare Targ.-Tozz. — arid uncultivated land, hedges, maquis, Pereto and Tagliacozzo (Veri 1988), Punta della Vignola near Vasto! (Conti & Manzi 1997c) to Vasto Marina nord!

Arisarum proboscideum (L.) Savi - humid woods, Bosco di Oricola!

Lemnaceae

Lemna trisulca L. — stagnant and slow-running waters, Tirino! (Scoppola 1982, Buchwald 1995), Capo Pescara (Tammaro & al. 1987), Lago di Ortucchio (Tammaro & al. 1998), Lago Battista! (Conti & Manzi 1997c).

Lemna gibba L. — stagnant waters, Gole di Popoli (Tammaro 1971a), Fucino (Scoppola 1982) and Saline (Pirone 1983).

Lemna minor L. — stagnant waters - C.

Spirodela polyrhiza (L.) Schleid. — Sirente, probably along Aterno (Groves 1880). Not found recently and to be confirmed.

Typhaceae

Sparganium erectum L. subsp. *erectum* — watercourses, stagnant waters - NC - According to Buchwald (1995) the reports of *S. erectum neglectum* (Beeby) K. Richt. from C-Italy are probably to be referred to *S. erectum* s.s.

Sparganium emersum Rehm. (*S. simplex* Huds.) — Campotosto peat-bog as “*S. simplex*” (Cecchettani 1907, Marchetti 1936). Not found recently and perhaps extinct.

Typha latifolia L. — stagnant waters, ditches - CC.

Typha angustifolia L. subsp. *angustifolia* — ditches, stagnant waters - NC.

Typha minima Hoppe — ditches, stagnant waters, F. Tordino and F. Vezzola (Zodda 1953), Valle dell'Orta!, F. Sinello near Bosco di Don Venanzio!, mouth of F. Sangro! (Conti 1986), mouth of F. Saline (Pirone 1983), Marina di S. Salvo!, F. Fino near Castiglione Messer Raimondo (Conti & al. in press), Lago di Serranella!, Lago S. Angelo!, near Ateleta along F. Sangro! and along the T. Tre Valloni at Fara S. Martino (Conti in press), F. Nora near Catignano (Bellini pers. comm.), Gole del Vomano!

Typha laxmannii Lepechin — marshy environments, F. Sangro at the confluence with F. Aventino! (Conti & al. 1990).

Cyperaceae

Carex rupestris All. — mountain tops, cliffs at high altitude, Gran Sasso! (Furrer 1957, Furrer & Furnari 1960, Tammaro 1995).

Carex davalliana Sm. — peat-bogs, Pizzo di Sevo (Bertoloni 1833-54, Zodda 1953 from Orsini, Tammaro 1987a from a specimen collected by Sanguinetti) and Altopiano delle Rocche (Gruppo Lavoro Conservazione Natura S.B.I. 1979). According to Grande (1924a) the report from Pizzo di Sevo is to be referred to *Elyna bellardi*. In FI! the report from Pizzo di Sevo is not deposited.

Carex distachya Desf. — *Quercus ilex* woods, maquis, Sirente (Groves 1880 as "*C. linkii* W."), Lecceta di Torino di Sangro! (Tammaro 1983b), Capistrello, Cappadocia (Veri 1988), *Quercus ilex* wood between Piane d'Archi and Bomba!, Valle del Trigno between S. Salvo and Lentella! (Conti & al. 1990).

Carex spicata Huds. (*C. contigua* Hoppe) — open woods, margins of woods - C.

Carex muricata L. subsp. *lamprocarpa* Celak. (*C. pairaei* F. W. Schultz) — open woods, scrub - NC.

Carex divulsa Stokes subsp. *divulsa* — cool woods - C.

Carex otrubae Podp. — ditches, riversides, humid meadows - C - *C. vulpina* is reported as well, it could be perhaps referred to this taxon but it should be checked.

Carex paniculata L. subsp. *paniculata* — marshy environments, Quarto del Barone (Tammaro 1986a), F. Tirino!, near Rivisondoli!, La Brionna, Vetoio, Pescocostanzo, Templo from Pescasseroli to Bisegna! (Pirone 1987c, Tammaro 1987a, Conti 1992c, Buchwald 1995), Lagozzo!, Val Fondillo! (Conti 1995), Lago Molinello near Pizzoferrato! (Conti & Manzi 1996), Campotosto!

Carex divisa Huds. — marshy environments, humid meadows, La Brionna, near Castel di Sangro, Pescara and Majella at Pennapiedimonte (Tammaro 1986a, 1987a).

Carex disticha Huds. — marshy environments, Quarto di S. Chiara! (Conti & al. 1990), Pantaniello di Rivisondoli (Pirone 1997b), Campotosto! The two reports from the

Parco Nazionale d'Abruzzo, known from literature, from Pescasseroli to Barrea (Vaccari & Wilczek 1940) and Camosciara (Società Botanica Italiana 1953) are to be regarded as erroneous (Pedrotti 1977).

Carex praecox Schreb. — arid meadows, sandy uncultivated land, Pietracamela at Fonticelle [Zodda 1953 as "*C. brizoides* var. *praecox* (Schreb.)"], Pineta di Pescara (Tammaro 1983b), Capo Pescara (Pirone & al. 1997).

Carex ovalis Good. (*C. leporina* auct.) — humid environments - NC.

Carex canescens L. — marshes and peat-bogs, Gran Sasso (Pedrotti 1978, Pignatti 1982, from a specimen collected by Pedrotti at Voltigno in CAME!) and Quarto di S. Chiara (Tammaro 1987a).

Carex echinata Murray (*C. stellulata* Good.) — peat-bogs, Bosco Martese (Zodda 1953), Sirente (Guarrera & Tammaro 1994), M. Gorzano over Cesacastina!, Campotosto!

Carex remota L. — humid woods - NC.

Carex elongata L. — Campotosto peat-bog (Cecchettani 1907, Marchetti 1936) where it is probably extinct.

Carex mucronata All. — cliffs, Camosciara (Lusina 1953) and Villavallelonga (Tammaro 1987a from a specimen collected by Grande), Majella (Tammaro 1986a), M.ti della Laga at Bosco Martese and Gran Sasso in M. Corno, Arapietra, M. Brancastello (Tenore 1831-42, Jatta 1877, Furrer & Furnari 1960, Zodda 1953, 1967) and Campo Imperatore (Tammaro 1987a from a specimen collected by Bavazzano and Ricceri).

Carex nigra (L.) Reichard subsp. *nigra* — marshy environments, M.ti della Laga at Cortino, Corno Piccolo, M. Aquila, M. Portella, Arapietra [Furrer & Furnari 1960, Zodda 1953, 1967 as "*C. caespitosa* L. var. *goodenowii* (J. Gal)"], Majella in Valle di S. Spirito (Tammaro 1986a), Ajelli and its surroundings (Guarrera & Tammaro 1994). The report of *C. caespitosa* from Pietracamela at Castellano below Corno Piccolo (Zodda 1957), recorded again by Pignatti (1982) was referred by Zodda himself (1967) to "*C. caespitosa* var. *goodenowii*".

Carex acuta L. subsp. *acuta* (*C. gracilis* Curtis) — marshy environments, Abruzzo (Tenore 1831-42), Rivisondoli in Pantaniello and Molino, F. Giardino and Quarto di S. Chiara!, Altopiano delle Rocche!, Parco Nazionale d'Abruzzo!, Campo di Giove at Lago Ticino, F.sso Vera near Bosco di S. Antonio, Campotosto!, Piano delle Cinquemiglia (Cecchettani 1907, Marchetti 1936, Gruppo Lavoro Conservazione Natura S.B.I. 1979, Pedrotti & al. 1992, Conti 1992a, 1992c, 1995, Conti & al. 1990, Buchwald 1995, Pirone 1984, 1986, 1987b 1997b).

Carex elata All. subsp. *elata* — marshy environments, Lago La Croce near Castiglione Messer Marino (Pedrotti 1983b), Pescasseroli! (Venanzoni 1987), Piana di Pescasseroli!, Templo! (Conti 1995, Buchwald 1995) and Capo Pescara (Tammaro & al. 1987).

- Carex parviflora* Host — snowbed meadows, cool pastures at high altitude, Majella! (Bertoloni 1833-54 as "*C. nigra* Willd.", Feoli-Chiapella 1979-80, Tammaro 1986a from specimens collected by Groves and Fiori), Gran Sasso [Zodda 1953, 1967, Bazzichelli 1960 as "*C. atrata* L. var. *nigra* (Bell.)", Furrer & Furnari 1960, Bruno & Furnari 1966].
- Carex buxbaumii* Wahlenb. subsp. *buxbaumii* — humid and peaty meadows, Quarto di S. Chiara! (Conti & al. 1990).
- Carex umbrosa* Host — woods, Majella at Bocca di Valle and Valle dell'Orfento (Tammaro 1983b), Velino (Petriccione 1993), M. Scarafano (Tammaro 1995).
- Carex ericetorum* Pollich — stony pastures at high altitude, saddle of M. Aquila! and saddle of Corno Grande towards M. Aquila and Brancastello [Furrer 1957, Bazzichelli 1960 as "*C. ericetorum approximata* (All.)"].
- Carex caryophylla* Latourr. — glades and stony pastures - C.
- Carex tomentosa* L. — humid meadows, La Brionna (Castel di Sangro)!, Piano delle Cinquemiglia! (Tammaro 1984a, 1987a, Conti & Manzi 1996), Quarto di S. Chiara! (Conti & al. 1990), Polledrara (Secine)! and Voltigno! (Conti & al. in press).
- Carex griotetii* Roem. — cool woods, Fosso di Vallevò between S. Vito and Fossacesia! (Conti & al. 1990) and Bosco di Vallaspra near Atessa! (Conti & Pirone 1992).
- Carex hallerana* Asso — thermophilous open woods - C.
- Carex depressa* Link var. *basilaris* (Jord.) Asch. & Graebn. — maquis, Gioia Vecchio, Pescasseroli (Anzalone & Bazzichelli 1960) and Velino in Vallone "il Bicchero" (Avena & Blasi 1974 as "*C. depressa*").
- Carex humilis* Leyss. — stony pastures - C.
- Carex digitata* L. — open woods, glades - C.
- Carex ornithopoda* Willd. subsp. *ornithopoda* — meadows at high altitude, Gran Sasso at M. Brancastello (Furrer & Furnari 1960), M. Camicia!, Parco Nazionale d'Abruzzo!, Majella!
- Carex depauperata* Curtis ex With. — thermophilous woods, Torino di Sangro (Tammaro 1987a).
- Carex capillaris* L. subsp. *capillaris* — mountain tops, Majella, in Vallone di Femmina Morta, valleys southwards of M. Amaro (Tammaro 1986a from specimens collected by Levier and Groves, as "*C. capillaris* L. var. *minima*") and in M. Acquaviva! (Conti 1992a).
- Carex sylvatica* Huds. subsp. *sylvatica* — cool woods - C.

Carex pallescens L. — humid environments - C.

Carex panicea L. — humid meadows, Altopiano delle Rocche! (Gruppo Lavoro Conservazione Natura S.B.I. 1979), Rivisondoli (Pirone 1986), Porcinaro (Tammaro 1987a from a specimen collected by Vaccari), Templo!, Campitelli! (Conti 1992c, 1995), Polledrara! (Secine), Voltigno!, Campotosto!

Carex liparocarpus Gaudin subsp. *liparocarpus* (*C. nitida* Host) — pastures, Gran Sasso near M. Cristo, surroundings of L'Aquila and Conca di Capestrano (Tammaro 1983b), between Sperone and Colle Biferno! (Conti 1995), feet of M. Rosa Pinnola!

Carex firma Host — stony pastures near the mountain tops, Gran Sasso at Castelli, Vado di Ferruccio! and M. Prena [Marchesetti 1875, Grande 1924a, Furrer 1928, Zodda 1967 as "*C. ferruginea* Scop. var. *firma* (Host)"].

Carex macrolepis DC. — Near endem. - stony slopes - CC.

Carex kitaibeliana Degen ex Bech. — stony meadows at high altitude, stony slopes - CC - According to Parlatore (1848-96), *C. sempervirens* Vill. reaches Abruzzo in Apennines, but it is to be referred to *C. kitaibeliana* (Grande 1924a as "*C. laevis*"). It was reported from M.ti della Laga and Gran Sasso [Zodda 1953, 1967 as "*C. ferruginea* var. *sempervirens* (Vill.)", Pedrotti 1981, 1982a] but perhaps erroneously.

Carex brachystachys Schrank — wet cliffs, M.ti della Laga, Majella (Tenore 1831-42, Cesati 1873), Morrone (Tammaro 1987a from a specimen collected by Levier), Camosciara! (Tammaro 1987a), Vallone Fossaceca! (Conti & al. in press).

Carex pilosa Scop. — M.ti della Laga in Valle del Rio Castellano (Brilli-Cattarini & Gubellini 1987a), Velino, Piani di Pezza (Tammaro 1987a from a specimen collected by Chiarugi, Petriccione 1993), Serra Lunga near Collelongo (Scoppola & Modena 1997).

Carex punctata Gaudin — peat-bogs, La Brionna (Tammaro 1987a).

Carex distans L. — humid meadows - C.

Carex extensa Good. — saline, humid depressions of coast, Giulianova, Martinsicuro near F. Tronto! (Tenore 1831-42, Zodda 1953, Conti & Stanisci 1990), mouth of F. Sangro (Gehu & al. 1984), near the mouth of T. Vibrata, Faro di Vasto (Pirone 1995b), between Pineto and Scerne (from a specimen collected by Pirone), coast of Casalbordino near the mouth of F. Osento!, Marina di S. Salvo!

Carex flava L. — marshy environments, peaty meadows, Pizzo di Sevo (Tenore 1831-42), Campotosto peat-bog! (Cecchetti 1907, Marchetti 1936), Guado S. Leonardo, Pietracamela, La Brionna, Porcinaro (Tammaro 1986a, 1987a) and Lagozzo! (Conti 1992c). The reports near Pietracamela are to be checked [Fiori 1907, Tammaro 1987a], I found only *C. lepidocarpa*.

Carex lepidocarpa Tausch — sources, Majella at Callarelli! (Conti 1987), Gran Sasso at Fosso Malepasso! and Valle del Rio Arno near Pietracamela! (Conti & al. in press).

Carex serotina Mérat subsp. *serotina* (*C. oederi* auct.) — sources, marshy meadows - NC.

Carex frigida All. — sources, stony slopes with running waters, Gran Sasso, Majella!, M.ti della Laga (Tenore 1831-42, Bertoloni 1833-54, Rigo 1877, Crugnola 1894, Zodda 1953, Pedrotti 1983a, Tammaro 1986a from a specimen collected by Groves, Conti 1987), Lago di Campotosto!

Carex pendula Huds. — riparian woods - C.

Carex microcarpa Bertol. — Near endem. - marshy environments, Bosco Martese (Zodda 1953) and Capo Pescara (Tammaro 1987a).

Carex pseudocyperus L. — marshy environments, Laghetto di Vetoio, near L'Aquila (Del Grosso & Pogliani 1976, Tammaro 1983b), F. Tirino (Corbetta & Pirone 1989) and Serranella! (Conti in press).

Carex rostrata Stokes — marshy environments, Campotosto peat-bog as "*C. ampullacea* Good." (Cecchetti 1907, Marchetti 1936), Piano delle Cinquemiglia (Parlatore 1848-96 as "*C. ampullacea* Good." from Tenore) and La Brionna (Castel di Sangro) (Tammaro 1983b), Lago di Filetto! According to Tammaro (1983b), the site mentioned by Parlatore cannot be found.

Carex vesicaria L. — marshy environments, near Rivisondoli, Piano delle Cinquemiglia! (Pirone 1987c, Buchwald 1995), Lagozzo!, Lago Pantaniello! (Conti 1992c, 1995), M.ti Pizzi at Lago Battista! (Conti & Manzi 1996), mouth of F. Sangro (Tammaro & al. 1996), Lago di Filetto!

Carex acutiformis Ehrh. — marshy environments, "Salino" (Mauri & al. 1830 as "*C. paludosa*"), Campotosto peat-bog as "*C. paludosa* Good." (Cecchetti 1907, Marchetti 1936), F. Sangro at Bosco Marcantonio (Manzi 1988), Pianella (Tammaro 1987a), F. Tirino (Pirone 1987, Buchwald 1995), F. Sangro near Ateleta!, Capo Pescara! and Molina Aterno! (Conti 1992a).

Carex riparia Curtis — watercourses, M. dei Fiori (Mauri & al. 1830), Gole di Popoli (Tammaro 1971a), La Brionna near Castel di Sangro (Tammaro 1983b), Capo Pescara!, Ortucchio, Pescara, near Lago di Vetoio (Tammaro 1987a, Buchwald 1995, Tammaro & al. 1995, Pirone & al. 1997), F. Tirino! (Corbetta & Pirone 1989), Canistro (Veri 1988), Molina Aterno! (Conti 1992a).

Carex flacca Schreb. subsp. *flacca* — humid meadows - C (Tammaro 1988).

Carex flacca Schreb. subsp. *serrulata* (Biv.) Greuter — arid meadows, maquis - C - It is found in plant associations belonging to *Quercetalia ilicis* (Tammaro 1988).

Carex flacca Schreb. subsp. *praetutiana* (Parl.) Tammaro — humid meadows, Majella,

Morrone, Laga and near Campotosto (Tammaro 1986a, 1988).

Carex hirta L. — humid meadows - CC.

Carex lasiocarpa Ehrh. — Campotosto (Cecchettani 1907, Marchetti 1936) but now extinct.

Elyna myosuroides (Vill.) Fritsch — mountain tops, M.ti della Laga!, Gran Sasso!, Majella! [Parlatore 1848-96 as "*Elyna spicata*", Grande 1924a, Bruno & al. 1965, Zodda 1953, 1967 as "*Kobresia bellardi* Degl.", Tammaro 1986a, 1995 as "*Kobresia myosuroides* (Vill.) Fiori"].

Scirpus sylvaticus L. — marshy meadows, along T. Vibrata (Zodda 1953, 1967).

Bolboschoenus maritimus (L.) Palla — marshy environments in fresh and brackish waters - C.

Scirpoides holoschoenus (L.) Soják subsp. *holoschoenus* [*Holoschoenus romanus* (L.) Fritsch] — marshy environments - NC.

Scirpoides holoschoenus subsp. *australis* (Murray) Soják [*H. australis* (L.) Rchb.] — marshy environments - NC.

Scirpoides holoschoenoides (L.) Soják (*Holoschoenus vulgaris* Link) — marshy environments - C.

Blysmus compressus (L.) Panzer ex Link — humid meadows - C.

Schoenoplectus lacustris (L.) Palla subsp. *lacustris* — marshy environments - C.

Schoenoplectus lacustris subsp. *tabernaemontani* (C. C. Gmel.) A. & D. Löve — marshy environments - C.

Schoenoplectus triqueter (L.) Palla — mouth of F. Tronto (Zodda 1967 as "*Scirpus triquetrus* L.") where it seems extinct (Pirone & Conti 1996).

Schoenoplectus litoralis (Schr.) Palla — bed of F. Tronto, Tortoreto marina [Zodda 1953, 1967 as "*Scirpus litoralis* (Schr.)"]. It seems extinct from the coast but its occurrence is to be confirmed (Pirone & Conti 1996).

Isolepis cernua (Vahl) Roem. & Shult. — humid sands, Chiarino (Mauri & al. 1830 as "*Scirpus savii* var. *major*", Bertoloni 1833-54 as "*S. savii*"), Teramo, Giulianova [Abbate 1903 as "*S. savii*", Zodda 1953, 1967 as "*Scirpus setaceus* L. var. *filiformis* (Savi)"], Sirente "Posti paludosi e lungo l'Aterno" (Groves 1880 as "*S. savii*"), F. Saline (Pirone 1991), Lago di Serranella! (Conti in press), Marina di S. Salvo!

Isolepis setacea (L.) R. Br. — humid sands, M. Corno (Tenore 1831-42 as "*Scirpus setaceus*"), mouth of F. Saline (Pirone 1983).

Eleocharis palustris (L.) Roem. & Schult. (s.l.) — marshy environments - C.

Eleocharis uniglumis (Link) Schult. — marshy environments, Campitelli!, near Bisegna! (Conti & Minutillo 1996), Campotosto! (Conti & al. in press).

Eleocharis quinqueflora (Hartmann) O. Schwarz — peaty meadows, M.ti della Laga on Gorzano! (Conti & Pirone 1986), Campitelli! (Conti 1992c), Campo Felice! (Conti & Manzi 1997c).

Eriophorum angustifolium Honckeny — Campotosto peat-bog as "*E. angustifolium* Roth." (Cecchettani 1907, Marchetti 1936). To be confirmed.

Eriophorum latifolium Hoppe — peaty meadows, Camosciara!, Val Fondillo!, Civitella Alfedena as "*E. polystachium* L. *latifolium* (Hpe.)." (Società Botanica Italiana 1953, Anzalone & Bazzichelli 1960), M.ti della Laga!, Gran Sasso! (Mauri & al. 1830, Tenore 1831-42, Bertoloni 1833-54 as "*E. pubescens*", Jatta 1877, Lusina 1949, Zodda 1953), Altopiano delle Rocche (Gruppo Lavoro Conservazione Natura S.B.I. 1979), Campotosto!

Fimbristylis annua (All.) Roem. & Schult. — Bucchianico (Villani 1921). Not found recently and to be confirmed.

Fimbristylis dichotoma (L.) Vahl. — humid sands, Tortoreto (Bertoloni 1833-54 as "*F. dichotomus* Bert.", Zodda 1953 from Marcantonio). At present it seems extinct from the coast of Abruzzo (Pirone & Conti 1996).

Schoenus nigricans L. — retrodune depressions, humid meadows - NC.

Cladium mariscus (L.) Pohl — retrodune depressions, Roseto at the mouth of F. Vomano (Zodda 1953, 1967) where it seems extinct (Pirone & Conti 1996) but recently found at Marina di S. Salvo! (Conti & al. in press).

Cyperus longus L. subsp. *longus* — humid environments - C.

Cyperus longus subsp. *badius* (Desf.) Murb. — Campotosto peat-bog as "*C. longus* var. *badius* Desf (Cecchettani 1907, Marchetti 1936), Teramo, Alba Adriatica (Zodda 1967).

Cyperus rotundus L. — humid environments - C.

Cyperus glomeratus L. — riversides, Caramanico (Tenore 1831-42 as "*C. australis* Schrad."). Not confirmed recently.

Cyperus fuscus L. — humid sands, beds of the rivers - C.

Cyperus kalli (Forssk.) Murb. — coastal dunes - NC.

Cyperus michelianus (L.) Delile — humid sands, coast of Pescara (Tammaro & Pirone 1979).

Cyperus serotinus Rottb. — ditches, muds, Teramo province (Gussone 1826 as “*C. monti* L.”, Tenore 1831-42 as “*C. monti*”, Parlatore 1848-96, Zodda 1953, 1967). At present it seems extinct from the coast of Abruzzo (Pirone & Conti 1996).

Cyperus flavescens L. — humid sands - NC.

Cannaceae

Canna indica L. — Pantrop. - naturalized.

Orchidaceae

Cypripedium calceolus L. — clear areas in the *Fagus sylvatica* woods, between the *Fagus sylvatica* woods and the scrub with *Pinus mugo*, Camosciara! (Sipari 1926, Fiori 1923-29, 1927, Anzalone & Bazzichelli 1960, Bruno & Bazzichelli 1966), Val Fondillo! (Rovelli & Conti 1995), Majella in the Natural Reserve of Fara S. Martino! (Conti & Pellegrini 1988).

Ophrys bombyliflora Link — arid meadows, Teramo (Parlatore 1848-96), Punta della Lotta near Vasto! (Conti & Pirone 1986), Taranta Peligna!, between Vasto Marina and S. Salvo Marina! (Conti 1987), Lama dei Peligni!, Lecceta di Casoli! (Conti & Pellegrini 1990), Lentella!

Ophrys tenthredinifera Willd. — arid meadows, Teramo at Colle Pennino (Zodda 1953 from D'Amato as “*O. rosea* Grande”), Gole di Popoli (Conti 1987 from a specimen collected by Tammaro!), Valle del Trigno near Lentella! (Conti & Pellegrini 1990) and Fresagrandinara!

Ophrys apifera Huds. — arid meadows from the coast to 1200 m - C.

Ophrys bertolonii Moretti — arid meadows from 50 to about 1300 m - C.

Ophrys sphegodes Mill. subsp. *sphegodes* (*O. aranifera* Huds.) — arid meadows from 100 to about 1300 m - C. Subsp. *majellensis* Daiss (Daiss & Daiss 1996) is reported as well.

Ophrys sphegodes Mill. subsp. *garganica* Nelson (*O. garganica* O. & E. Danesch) — Endem. C. S. It - arid meadows - Majella at Capo Le Macchie! (Fara S. Martino) (Conti & Pellegrini 1988).

Ophrys incubacea Bianca ex Tod. (*O. atrata* Lindl.) — arid meadows - PC, spread mostly in the coasts and the surrounding hill areas (mouth of F. Osento!, Fresagrandinara!, Lentella!, etc.).

Ophrys promontorii O. & E. Danesch — Endem. C. S. It - arid meadows - Pineta d'Avalos, Lecceta di Casoli!, Pescosansonesco! (Conti & Pirone 1987), Majella at Capo Le Macchie! (Conti 1987), Roccaraso, Alfedena!, Gole del Sagittario near Scanno!, Villalago and Anversa!, near Gioia Vecchio!, near Barrea!, Villetta Barrea,

Palena, S. Benedetto in Perillis!, Castel del Monte (Kalteisen & Reinhard 1987, Dekker 1993, Conti 1995).

Ophrys holoserica (Burm. f.) Greuter subsp. *holoserica* [*O. fuciflora* (F.W. Schmidt) Moench subsp. *fuciflora*] — arid meadows from the coast to 1500 m - C.

Ophrys holoserica subsp. *apulica* (O. & E. Danesch) Buttler [*O. apulica* (O. & E. Danesch) O. & E. Danesch] — Endem. C. S. It - arid meadows - Palena and Piana di S. Antonio (Palena), between Alfedena and Barrea! (Conti & Pellegrini 1988), Roccaraso (Dekker 1994 as "*O. apulica*"), Gamberale (Daiss & Daiss 1996).

Ophrys tetraloniae Teschner — arid meadows, glades, near L'Aquila, Palena, Alfedena, Castel di Sangro [Reinhard 1987 as "*O. holoserica* subsp. *elatior* (Gumpricht) Gumpricht", Daiss & Daiss 1996].

Ophrys scolopax Cav. subsp. *scolopax* — arid meadows, Villa Vallucci di Montorio at Vomano, Cervaro at Zingano as "*O. arachnites* var. *scolopax* (Cav.)" (Zodda 1967), Alfedena and Palena (Reinhard 1989).

Ophrys oxysrhynchos Tod. subsp. *oxysrhynchos* — Poggiovalle di Torricella (Zodda 1967 as "*O. arachnites* var. *oxysrhynchos* Tod."). Not found by other authors and to be confirmed.

Ophrys crabronifera Mauri subsp. *crabronifera* — Endem? C. S. It - arid meadows - Valle dell'Orta!, Valle dell'Orfento!, Gole di Popoli!, Valle del Trigno between S. Salvo and Lentella! (Conti 1987, Conti & Pellegrini 1990), Torricella Peligna (Manzi pers. comm.).

Ophrys lutea Cav. — arid meadows, Teramo (Mauri & al. 1830, Tenore 1831-42, Zodda 1953), Valle del Trigno near Lentella! (Conti & Pirone 1988), Majella between Lama dei Peligni and Palena! (Conti & Pellegrini 1988), Gole del Vomano near S. Croce!

Ophrys fusca Link subsp. *fusca* — arid meadows from 100 to about 1200 m - NC.

Ophrys ciliata Biv. (*O. speculum* Link; *O. vernixia* Brot.) — Pescara in Pineta d'Avallò!, where it is already extinct because of the violation of the garigue where it occurred (Conti 1990b). Zodda (1962, 1967) reports it from Intermesoli where it is to be confirmed.

Ophrys insectifera L. subsp. *insectifera* — cool meadows, M.ti della Laga near Cortino! and between Pagliaroli and Cortino (Gruppo Lavoro Conservazione Natura S.B.I. 1979, Guarrera 1983), near Lago di Campotosto!, Abetina di Tossicia!, Quarto di S. Chiara!, Borrello! (Conti & Pellegrini 1990), Alfedena (Daiss & Daiss 1996).

Serapias lingua L. — arid meadows, between Montenero and Alfedena! (Conti & Pellegrini 1990).

Serapias parviflora Parl. — arid meadows, Valle dell'Orta!, Piana di S. Antonio (Palena)!, M.ti Pizzi at Fonte della Noce, Marina di S. Salvo, *Quercus ilex* wood of Piane D'Archi-Bomba! (Conti & Pellegrini 1988), S. Pietro di Villalago (Serafini pers. comm.).

Serapias vomeracea (Burm.f.) Briq. subsp. *vomeracea* — arid meadows - NC in the hill belt.

Serapias vomeracea subsp. *laxiflora* (Soó) Sunderm. (*S. bergonii* E. G. Camus) — coast garigue, Vasto Marina!

Serapias cordigera L. — Gran Sasso at Pretara and Forca di Valle (Crugnola 1900, Zodda 1953 from specimens collected by Petrilli), Gamberale (Daiss & Daiss 1996).

Himantoglossum adriaticum H. Baumann [*H. hircinum* (L.) Spreng. subsp. *adriaticum* (H. Baumann) H. Sund.] — arid meadows from 250 to about 1500 m - C. The reports of *H. hircinum* (L.) Spreng. are to be referred to this taxon.

Barlia robertiana (Loisel.) Greuter — arid meadows, Scanno (Tenore 1831-42 from Gravina as "*Orchis longibracteata*", Parlato 1848-96 as "*Barlia longibracteata* Parl.") where it is to be confirmed, S. Eufemia (Daiss & Daiss 1996) and near Lentella at Fontanelle! (Conti & al. in press).

Anacamptis pyramidalis (L.) Rich. — arid meadows from the low hill to 1200 m - C.

Neotinea maculata (Desf.) Stearn. — arid meadows, spread from 500 to 1100 m - PC.

Aceras antropophorum (L.) W. T. Aiton — arid meadows, spread from the low hill to about 1000 m - C.

Orchis papilionacea L. subsp. *papilionacea* — arid meadows, rare in the hill belt.

Orchis morio L. — arid meadows, spread from the coast to about 1500 m - C.

Orchis coriophora L. subsp. *coriophora* — arid meadows, Giulianova "oltre la pineta verso il Tordino" (Zodda 1953), where it has probably disappeared because of the anthropization, Majella at Pianagrande (Tammaro 1986a) and Alfedena (Daiss & Daiss 1996), M. Magnola between Forme and S. Iona (Allasia in litt.).

Orchis ustulata L. — meadows, spread from 800 to about 1500 m - NC.

Orchis tridentata Scop. — arid meadows, spread from 500 to about 1200 m - NC.

Orchis purpurea Huds. — arid meadows and uncultivated land, from the coast to about 1300 m - C.

Orchis militaris L. — glades, from 500 to about 1600 m - NC.

Orchis simia Lam. — arid meadows, from 200 to about 1200 m - NC.

Orchis italica Poir. — arid meadows, from the coast to about 1200 m - C.

Orchis laxiflora Lam. — humid meadows, Velino (Avena & Blasi 1974), Ajelli and its surroundings (Guarrera & Tammaro 1994), Palena! and M.ti Pizzi!, Piani Palentini! The report from Montenero near Alfedena (Daiss & Daiss 1996) is to be referred to Molise.

Orchis palustris Jacq. — marshes of Abruzzo (Parlatore 1848-96), S. Salvo Marina! (Conti & al. in press).

Orchis quadripunctata Cyr. ex Ten. — arid meadows, Valle del Trigno near Schiavi (Daiss & Daiss 1996).

Orchis mascula (L.) L. subsp. *mascula* — cool pastures, glades, from 700 to about 1800 m - C.

Orchis pallens L. — stony pastures from 1000 to about 2000 m - NC.

Orchis provincialis Balbis ex DC. — woods from 300 to about 1000 m - NC.

Orchis pauciflora Ten. — arid meadows from 300 to about 1500 m - C.

Orchis spitzelii Saut. ex W. Koch — Velino, M. Viperella in Simbruini (Collins 1957, Rasetti 1980, De Angelis & Scacchi 1988, Blasi & al. 1990, Lucchese & Lattanzi 1991), M. Rotondo at Rocca di Mezzo (Rossi 1981), Parco Nazionale d'Abruzzo! (Petriccione 1986, Loche & al. 1991), Pescocostanzo (Lastoria 1988), Majella at Campo di Giove! and Gran Sasso at Campo Imperatore! (Conti & Pellegrini 1990).

Dactylorhiza sambucina (L.) Soó [*D. latifolia* (L.) H. Baumann & Künkele] — montane pastures from 1000 to about 2200 m - C.

Dactylorhiza romana (Sebast.) Soó — Pignatti (1982) reports it generally from the Abruzzo but it is to be confirmed.

Dactylorhiza incarnata (L.) Soó subsp. *incarnata* — humid meadows, Gran Sasso at Campo Imperatore! (Steffan & Steffan 1983), La Brionna near Castel di Sangro!, Lago di Campotosto!, Majella near S. Eufemia (Tammaro 1984b), Altipiani maggiori! (Pirone 1987a), Ovindoli! (Guarrera & Tammaro 1994), Passo Godi! (Conti & al. 1988), near Barrea (Hoffmann 1989), Piana di Pescasseroli! (Pedrotti & al. 1992), Val Fondillo!, Campitelli! (Conti 1995), T. Scerto (from a specimen collected by Rosati in Herb. PNA!).

Dactylorhiza maculata (L.) Soó (s.l.) — cool woods, humid meadows from 100 to about 2000 m - C.

Traunsteinera globosa (L.) Rchb. — montane meadows, Prati di Tivo at Castellano

(Zodda 1954 as "*Orchis globosa* L."), Majella in Valle dell'Orfento (Tammaro 1986a), Parco Nazionale d'Abruzzo at Passo Godi (Conti & Pellegrini 1990 from an observation of Daiss). The report from the Parco Nazionale d'Abruzzo is probably erroneous because the species was not found although I looked for it, and Daiss himself did not confirm it (Daiss & Daiss 1996).

Nigritella widderi Teppner & Klein — meadows at high altitudes, over 1700 m, Parco Nazionale d'Abruzzo!, Gran Sasso!, M.ti della Laga!, M.ti della Magnola, Sirente (Rossi & al. 1987), Montagna Grande near Scanno (Lastoria 1988). There are some specimens from Pizzo di Sevo, collected by Orsini and Cesati (FI and RO) and two by Levier collected in the pastures near Corcumello in FI!

Gymnadenia conopsea (L.) R. Br. subsp. ***conopsea*** — meadows from 400 m (Valle dell'Orta!) to about 2000 m - C.

Coeloglossum viride (L.) Hartm. — montane meadows from 800 to about 2400 m - C.

Pseudorchis albida (L.) A. & D. Löve [*Leucorchis albida* (L.) E. Mey.] — grassy and stony slopes subject to long periods of snow, often with *Dryas octopetala*. Majella at Torricella, M. Focalone!, Pizzo di Sevo, M. dei Fiori, Gran Sasso at Torricella Sicura and Pietracamela [Tenore 1831-42, Bertoloni 1833-54 as "*Peristylis albidus*", Parlatore 1848-96 as "*Bicchia albida* Parl.", Villani 1921 as "*Gymnadenia albida* (L.) Rich.", Zodda 1967, Conti & Pellegrini 1988], Parco Nazionale d'Abruzzo at Camosciara! (Fiori 1923-29, Bazzichelli & Furnari 1970). The reports from Torricella Peligna and Torricella Sicura are probably to be referred to the respective mountains in their territory.

Platanthera bifolia (L.) Rich. — open woods, meadows on a clayey substratum from 800 to about 1400 m - NC.

Platanthera clorantha (Custer) Rchb. subsp. ***clorantha*** — margins of woods, glades from 600 to about 1300 m - NC.

Listera ovata (L.) R. Br. — cool woods from 600 to about 1500 m - C.

Neottia nidus-avis (L.) Rich. — *Fagus sylvatica* woods from 600 to about 1800 m - C.

Epipactis palustris (L.) Crantz — marshy environments, Gran Sasso between Ortolano and Passo delle Capannelle, Parco Nazionale d'Abruzzo at Camosciara!, Civitella Alfedena, Villetta Barrea, Forca d'Acero, Lagozzo!, Val Fondillo! (Società Botanica Italiana 1953, Anzalone & Bazzichelli 1960, Baumann & Lorenz 1988, Conti 1992c, Conti 1995), Tortoreto (Bertoloni 1833-54), Teramo (Zodda 1953), Gole di Popoli (Tammaro 1971a), Majella in Valle dell'Orta! and Lago di Casoli! (Conti 1987), Campotosto!, Valle del Sangro near Ateleta! and Castel di Sangro!, Morrone di Salle!, Oasi di Serranella! (Cecchettani 1907, Conti & Pellegrini 1990), Cagnano Amiterno (Manzi pers. comm.), Valle del Rio Arno near Pietracamela!, Bosco di Oricola!, Gole del Vomano!

Epipactis helleborine (L.) Crantz subsp. *helleborine* (*E. latifolia* All.) — woods and glades from 250 to about 2000 m - C.

Epipactis helleborine subsp. *latina* W. Rossi & Klein [*E. latina* (W. Rossi & Klein) B. & H. Baumann] — Endem. C. Ap. - Gran Sasso and Parco Nazionale d'Abruzzo at Barrea, Gioia dei Marsi, Opi-Forca d'Acero, Lago di Barrea, Villetta Barrea (Rossi & Klein 1987, Baumann & Baumann 1988, Baumann & Lorenz 1988, Hoffmann 1989), near Palena (Daiss & Daiss 1996).

Epipactis leptochila (Godfery) Godfery — *Fagus sylvatica* woods, Val Fondillo (Conti 1995).

Epipactis muelleri Godfery — woods, Lago di Barrea (Baumann & Baumann 1988), Gran Sasso near Castel del Monte, Teramo province near Roiano (Baumann & Lorenz 1988), Majella near Palena (Conti & Pellegrini 1990 from an observation of Daiss, Pietra Cernaia (Pirone 1997b).

Epipactis persica (Hauskn. ex Soó) Nannf. subsp. *gracilis* (B. & H. Baumann) W. Rossi (*E. gracilis* B. & H. Baumann) — *Fagus sylvatica* woods, M. Cappucciata near Castel del Monte (Baumann & Baumann 1988), M. Rotondo (Velino) [De Angelis & Scacchi 1988 as "*Epipactis persica* (Soó) Nansfeldt"], Majella near Valico della Forchetta (Conti & Pellegrini 1990).

Epipactis purpurata Sm. — *Fagus sylvatica* woods, Prati di Tivo, Bosco di S. Antonio! (Conti & Pellegrini 1990), Abetina di Rosello! (Manzi 1992a), Valle Iannanghera! (Conti 1995).

Epipactis atrorubens (Hoffm. ex Bernh.) Besser [*E. rubiginosa* (Crantz) W. D. J. Koch] — open woods, glades, stony pastures from 1000 to about 1900 m - PC.

Epipactis microphylla (Ehrh.) Sw. — open woods, glades, from the coast (Pineta d'Avalos) to about 1500 m - PC.

Cephalanthera rubra (L.) Rich. — open woods, glades, scrub, from the coast (Pescara at Pineta d'Avalos!) to about 1800 m - C.

Cephalanthera longifolia (L.) Fritsch (*C. ensifolia* Rich.) — woods from 500 to about 1700 m - C.

Cephalanthera damasonium (Mill.) Druce (*C. pallens* Rich) — open woods, glades from the coast to about 1700 m - C.

Limodorum abortivum (L.) Sw. — arid meadows from 200 to about 1500 m - NC.

Epipogium aphyllum Sw. — *Fagus sylvatica* woods, Camosciara (Orsomando 1975) Val Fondillo, Sirente in Sacco Sirente (Fumanti & al. 1985), Majella! (Conti & Pellegrini 1990), Valico del Curio below Chiarano (Conti 1995), Valle del Macchione (Aremogna) (from a specimen collected by Petraccaro, Izzo, D'Onofrio, Battisti!),

Meta (Dinter 1997).

Spiranthes spiralis (L.) Chevall. — arid meadows from 300 to about 1000 m - NC.

Corallorhiza trifida Cathel. — *Fagus sylvatica* woods on the main mountain groups from 1000 to 1800 m - C.

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Address of the author:

Dr Fabio Conti, Dipartimento di Botanica ed Ecologia dell'Università, Via Pontoni
5, I-62032 Camerino, Italy.