

**Supplement Tab. S1:** Sources of phytosociological relevés included in the data set.

| Source [reference]               | table                                                                                                   | n° rels | Association (as indicated in the original paper)                                                                                                                                                                                                                                                                 | Locality                                   | Country |
|----------------------------------|---------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| Birač [24]                       | Tab. X, rels. 1-13                                                                                      | 13      | " <i>Stipo-Salvietum officinalis</i> H-ić 1956 (1958)"                                                                                                                                                                                                                                                           | Dubrovnik area                             | HR      |
| Fanelli et al. [40]              | Tab. 24, rels. 29, 62, 71-73                                                                            | 5       | " <i>Stipo-Salvietum officinalis</i> Horvatić 1958"                                                                                                                                                                                                                                                              | Buna River                                 | AL      |
| Fanelli et al. [40]              | Tab. 25, rels. 30-33                                                                                    | 4       | " <i>Asphodelo-Chrysopogonetum grylli</i> Horvatić (1936) 1958"                                                                                                                                                                                                                                                  | Buna River                                 | AL      |
| Fascetti and Veri [29]           | Tab. 3, rels. 1-7                                                                                       | 7       | " <i>Stipo-Salvietum officinalis</i> Horvatić 1958"                                                                                                                                                                                                                                                              | Dubrovnik area                             | HR      |
| Fascetti and Veri [29]           | Tab. 4, rels. 1-6                                                                                       | 6       | " <i>Stipo-Salvietum officinalis</i> Horvatić 1958"                                                                                                                                                                                                                                                              | Dubrovnik area                             | HR      |
| Ferlan and Giacomini [14]        | Tab. 1, rels. 1-2, 50-52, 57, 60-78                                                                     | 24      | " <i>Chrysopogoneto-Centaureetum cristatae</i> Ferl. et Giac 1956"<br>" <i>Narcisso-Asphodeletum microcarpi</i> Šegulja 1969 <i>sisymbrietosum officinalis</i> "                                                                                                                                                 | Gorizia area                               | IT      |
| Hećimović [30]                   | Tab. 5, rels. 1-10                                                                                      | 10      | " <i>Brometo-Crhyssopogonetum grylli asphodeletosum microcarpi</i> "                                                                                                                                                                                                                                             | Bobara and Mrkan Islets                    | HR      |
| Horvatić [12]                    | Tab. 28, rels. 11-25                                                                                    | 15      | " <i>Brometo-Crhyssopogonetum grylli asphodeletosum microcarpi</i> "                                                                                                                                                                                                                                             | Island of Pag                              | HR      |
| Horvatić [13]                    | Tab. p. 51, rels. I-III                                                                                 | 3       | " <i>Brometo-Crhyssopogonetum grylli</i> Horvatić 1934"<br>" <i>Stipo-Salvietum</i> var. <i>Brachypodium ramosum</i> " [then included in the original diagnosis of the " <i>Brachypodio retusi-Salvietum officinalis</i> " by Terzi et al. (2023)]                                                               | Island of Rab                              | HR      |
| Horvatić [16]                    | Rel. p. 249                                                                                             | 1       | " <i>Ischaemo-Diplachnetum serotinae</i> H-ić prov. 1963"                                                                                                                                                                                                                                                        | Island of Dugi Otok                        | HR      |
| Ilijanić [23]                    | Tab II, p. 5, 1st rel.                                                                                  | 1       | " <i>Narcisso tazettae-Asphodeletum microcarpi</i> Šegulja 1969"                                                                                                                                                                                                                                                 | Vrsar, Lim Channel, Istria                 | HR      |
| Jasprica et al. [41]             | Tab. 11, rels. 1-3                                                                                      | 3       | " <i>Narcisso tazettae-Asphodeletum microcarpi</i> Šegulja 1969"                                                                                                                                                                                                                                                 | Island of Olib                             | HR      |
| Jasprica and Stamenković [43]    | Tab. 4, rels. 26-27                                                                                     | 2       | " <i>Narcisso tazettae-Asphodeletum microcarpi</i> Šegulja 1969"                                                                                                                                                                                                                                                 | Obljak Islet                               | HR      |
| Kamenjarin and Pavletić [36]     | Tab. 7, p. 34, rels. 1-11                                                                               | 11      | " <i>Koelerio-Festucetum illyrica</i> (H-ić1962) Trinajstić 1992 subass. <i>brachypodietousm retusi</i> Trinajstić 1992"                                                                                                                                                                                         | Island of Čiovo                            | HR      |
| Kutleša and Lakušić [18]         | Rel. p. 105                                                                                             | 1       | " <i>Stipeto-Salvietum officinalis</i> H-ić"                                                                                                                                                                                                                                                                     | Klek Peninsula, Neum                       | BA      |
| Lausi and Poldini [15]           | Tab. 3, rels. 14-24                                                                                     | 11      | " <i>Salviato-Euphorbietum fragiferae alyssetosum</i> "<br>" <i>Salviato-Euphorbietum fragiferae stipetosum</i> " [then included in the original diagnosis of the " <i>Seseli gouanii-Artemisietum albae</i> " by Poldini (1980)]                                                                                | Monfalcone-Trieste                         | IT      |
| Lausi and Poldini [15]           | Tab. 3, rels. 25-27                                                                                     | 3       | " <i>Stipo-Salvietum officinalis</i> H-ić 1956 (1958)"                                                                                                                                                                                                                                                           | Monfalcone-Trieste                         | IT      |
| Matvejeva and Nikolovski [25]    | Tab. 1                                                                                                  | 3       | " <i>Stipo-Salvietum officinalis</i> H-ić 1956 (1958)"                                                                                                                                                                                                                                                           | Drim River                                 | MK      |
| Pandža [35]                      | Tab. 1, rels. 1-6                                                                                       | 6       | " <i>Stipo-Salvietum officinalis</i> " [then included in the original diagnosis of the <i>Brachypodio retusi-Salvietum officinalis</i> by Terzi et al. (2023)]                                                                                                                                                   | Island of Murter                           | HR      |
| Petrović [38]                    | Tab. 12, rels. 1-8                                                                                      | 8       | " <i>Stipo-Salvietum officinalis</i> H-ić (1956) 1958"                                                                                                                                                                                                                                                           | Godinje                                    | ME      |
| Poldini [26]                     | Tab. 1, rels. 1-16                                                                                      | 16      | " <i>Lactuco-Ischaemetum</i> "                                                                                                                                                                                                                                                                                   | Gorizia                                    | IT      |
| Poldini [28]                     | Tab. 14, p. 105, rels. 1-3                                                                              | 3       | " <i>Seseli gouanii-Artemisietum albae</i> "                                                                                                                                                                                                                                                                     | Podpeč                                     | SI      |
| Poldini [32]                     | Tab. 85, p. 247, rels. 1-3                                                                              | 3       | " <i>Stipo-Salvietum officinalis</i> Horvatić (56) 58 em. Poldini"<br>" <i>Chrysopogono-Centaureetum cristatae</i> Ferlan et Giacomini 1955 em. Poldini 1980", " <i>onobrychidetosum tommasinii</i> "                                                                                                            | Trieste                                    | IT      |
| Poldini [32]                     | Tab. 66, rels. 1-5                                                                                      | 5       | " <i>Chrysopogono-Centaureetum cristatae</i> Ferlan et Giacomini 1955 em. Poldini 1980", " <i>centaureetosum cristatae</i> "                                                                                                                                                                                     | Trieste and Istria                         | IT-HR   |
| Poldini [32]                     | Tab. 66, rels. 6, 10-15                                                                                 | 7       | " <i>Chrysopogono-Centaureetum cristatae</i> Ferlan et Giacomini 1955 em. Poldini 1980", " <i>sedetosum sexangulare</i> "                                                                                                                                                                                        | Trieste and Istria                         | IT-SI   |
| Poldini [32]                     | Tab. 66, rels. 29                                                                                       | 1       | " <i>Chrysopogono-Centaureetum cristatae</i> Ferlan et Giacomini 1955 em. Poldini 1980", " <i>genistetosum sericeae</i> "                                                                                                                                                                                        | Trieste                                    | IT      |
| Poldini [32]                     | Tab. 66, rels. 30-46                                                                                    | 17      | " <i>Chrysopogono-Centaureetum cristatae</i> Ferlan et Giacomini 1955 em. Poldini 1980", " <i>Stipo bromoidis-Salvietum officinalis</i> Horvatić 1963 var. <i>Brachypodium retusum</i> " [then included in the original diagnosis of the <i>Brachypodio retusi-Salvietum officinalis</i> by Terzi et al. (2023)] | Trieste and Istria                         | IT-SI   |
| Sedlar [39]                      | Tab. 14, rels. 1-3                                                                                      | 3       | " <i>Narcisso-Asphodeletum microcarpi</i> Šegulja 1969"                                                                                                                                                                                                                                                          | Island of Molat                            | HR      |
| Šegulja [22]                     | Tab II, rels. 1-8                                                                                       | 8       | " <i>Bromo erecti-Chrysopogonetum grylli</i> Horvatić 1934"                                                                                                                                                                                                                                                      | Sveta Marina (Labin area), Istria          | HR      |
| Stanišić-Vujačić et al. [42]     | Tab. 1, rels. 1-17<br>Tab. 12, rels. 3, 108, 114, 122-123, 134-135, 138, 140-142, 144, 181-182, 190-191 | 17      | " <i>Stipo-Salvietum officinalis</i> H-ić 1956 (1958)"                                                                                                                                                                                                                                                           | Ćemovsko polje, Podgorica                  | ME      |
| Šugar [20]                       | Tab. 10, rels. 6, 12, 29, 51, 99,102-103                                                                | 16      | " <i>Festuco-Koelerietum splendidis</i> H-ić 1963"                                                                                                                                                                                                                                                               | Island of Lošinj                           | HR      |
| Šugar [20]                       | Tab. 16, rels. 13, 23, 39, 110, 168                                                                     | 7       | " <i>Andropogoni-Doplachnetum serotinae</i> H-ić 1963"                                                                                                                                                                                                                                                           | Island of Lošinj                           | HR      |
| Šugar [20]                       | Tab. 2, rels. 1-16                                                                                      | 5       | " <i>Helichrysetum italici</i> Horvatić 1927"                                                                                                                                                                                                                                                                    | Island of Lošinj                           | HR      |
| Terzi and Jasprica [45]          | see Supplements 2 and 3                                                                                 | 16      | " <i>Stipo-Salvietum officinalis</i> H-ić 1956 (1958)"                                                                                                                                                                                                                                                           | Island of Plavnik                          | HR      |
| Terzi and Jasprica (new relevés) | see Supplements 2 and 3                                                                                 | 44      | " <i>Stipo-Salvietum officinalis</i> Horvatić 1963 <i>campanuletosum lingulatae</i> "                                                                                                                                                                                                                            | see Supplements 2 and 3                    | HR-IT   |
| Terzi et al. [44]                | Supp. Tab. 2, rels. 1 -41                                                                               | 41      | " <i>Brachypodio retusi-Salvietum officinalis</i> "                                                                                                                                                                                                                                                              | Adriatic side of Montenegro                | ME      |
| Terzi et al. [44]                | Supp. Tab. 2, rels. 42- 88                                                                              | 46      | " <i>Festuco-Koelerietum splendidis</i> H-ić 1963", " <i>typicum</i> Trinajstić"                                                                                                                                                                                                                                 | Kornati Archipelago                        | HR      |
| Trinajstić [19]                  | Tab. 33, rels. 1-4                                                                                      | 4       | " <i>Festuco-Koelerietum splendidis</i> H-ić 1963", " <i>marrubietosum</i> Trinajstić"                                                                                                                                                                                                                           | Island of Krk                              | HR      |
| Trinajstić [19]                  | Tab. 33, rels. 5-12                                                                                     | 8       | " <i>Festuco-Koelerietum splendidis</i> H-ić 1963", " <i>veronicetosum</i> Trinajstić"                                                                                                                                                                                                                           | Island of Krk                              | HR      |
| Trinajstić [19]                  | Tab. 33, rels. 13-15                                                                                    | 3       | " <i>Stipo-Salvietum officinalis</i> H-ić. /1956/1958"                                                                                                                                                                                                                                                           | Island of Krk                              | HR      |
| Trinajstić [19]                  | Tab. 34, rels. 1-10                                                                                     | 10      | " <i>Andropogoni-Doplachnetum serotinae</i> H-ić./1963/1965 nom. nov. et comb. nov."                                                                                                                                                                                                                             | Island of Krk                              | HR      |
| Trinajstić [19]                  | Tab. 39, rels. 1-10                                                                                     | 10      | " <i>Salvio officinalis-Seslerietum juncifoliae</i> "                                                                                                                                                                                                                                                            | Island of Krk                              | HR      |
| Trinajstić [27]                  | Tab. V, p. 29, rels. 1-6                                                                                | 6       | " <i>Festuco-Koelerietum splendidis</i> H-ić 1963"                                                                                                                                                                                                                                                               | Island of Hvar, Pelješac Peninsula         | HR      |
| Trinajstić [31]                  | Tab. 1, rels. 1-7                                                                                       | 7       | " <i>Stipo-Salvietum officinalis</i> H-ić (1956) 1958"                                                                                                                                                                                                                                                           | Island of Unije                            | HR      |
| Trinajstić [31]                  | Tab. 2, rels. 1-5                                                                                       | 5       | " <i>Bromo-Festucetum lapidosae</i> Trinajstić"                                                                                                                                                                                                                                                                  | Island of Unije                            | HR      |
| Trinajstić [33]                  | Tab. 2, rels. 1-8                                                                                       | 8       | " <i>Koelerio-Festucetum illyrica</i> Trinajstić, nom. et comb. nov.", " <i>brachypodietosum retusi</i> Trinajstić"                                                                                                                                                                                              | Island of Brač                             | HR      |
| Trinajstić [33]                  | Tab. 1, rels. 1-3 (?)                                                                                   | 3       | " <i>Koelerio-Festucetum illyrica</i> Trinajstić, nom. et comb. nov.", " <i>festucetosum illyrica</i> (= subas. <i>typicum</i> )"                                                                                                                                                                                | Šibenik                                    | HR      |
| Trinajstić [33]                  | Tab. 1, rels. 4-19 (?)                                                                                  | 16      | " <i>Koelerio-Festucetum illyrica</i> Trinajstić, nom. et comb. nov.", " <i>globularietosum cordifoliae</i> Trinajstić"                                                                                                                                                                                          | Šibenik, Mostar, Vir, and other localities | HR-BA   |
| Trinajstić [33]                  | Tab. 1, rels. 20-24 (?)                                                                                 | 5       | " <i>Festucetum illyrico-valesiacae</i> (Ht. 1962) Trinajstić, comb. nov. et nom. corr."                                                                                                                                                                                                                         | Bujakovac, Knin, and other localities      | HR      |
| Trinajstić [34]                  | Tab. 1, rels. 1-8                                                                                       | 8       | " <i>Koelerio macranthae-Brechypodietum retusi</i> Trinajstić"                                                                                                                                                                                                                                                   | Vrhovinsko, Kravsko and Gacko polje        | HR      |
| Trinajstić [37]                  | Tab. 1, rels. 1-5                                                                                       | 5       |                                                                                                                                                                                                                                                                                                                  | Dubrovnik                                  | HR      |