

ESQUEMA SIN TAXONÓMICO DA VEGETAÇÃO DO PNRF

I. VEGETAÇÃO AQUÁTICA FLUTUANTE SUBMERSA OU ENRAIZADA

IA. VEGETAÇÃO DE ÁGUA DOCE

1. POTAMETEA Klika in Klika & Novák 1941

[*Potametales* Klika in Klika & Novák 1941 (original name), *Potametea* Tüxen & Preising 1942 (art. 8), *Nymphaeetea* Klika in Klika & Hada 1944 (art. 29), *Potametea* Tüxen & Preising ex Oberdorfer 1957 (art. 31), *Stratiotetea* Den Hartog & Segal 1964 (syntax. syn.), *Ceratophylletea* Den Hartog & Segal 1964 (art. 8), *Utricularietea neglectae* Den Hartog & Segal 1964 (syntax. syn.)]

1a. Utricularietalia Den Hartog & Segal 1964

[*Lemno-Utricularietalia vulgaris* Passarge 1978 (syntax. syn.)]

1.1. *Ceratophyllion demersi* Den Hartog & Segal ex Passarge 1996

[*Ceratophyllion demersi* Den Hartog & Segal 1964 (art. 8)]

1.1.2.**Cerathophylletum demersi* Den Hartog & Segal 1964

IB. VEGETAÇÃO MARINHA E DE ÁGUA SALGADA

2. HALODULO WRIGHTII-THALASSIETEA TESTUDINUM Den Hartog ex Rivas-Martínez, Fernández-González & Loidi 1999

[*Halodulo-Thalassietea* Den Hartog 1976 (art. 8), *Halodulo-Cymodoceetea* Knapp 1965 (art. 8)]

2a. *Thalassio-Syringodietalia filiformis* Borhidi, Muñiz & Del Risco in Borhidi 1996

[*Thalassietalia* Den Hartog 1976 (art. 8), *Thalassio-Syringodietalia filiformis* Borhidi, Muñiz & Del Risco 1983 (art. 5)]

2.1. *Syringodio-Thalassion testudinum* Borhidi 1996

[*Cymodoceion nodosae* Den Hartog 1976 (art. 8)]

2.1.1. *Cymodoceetum nodosae* Feldmann 1937

3. RUPPIETEA J. Tüxen 1960

[*Riellietea helicophyllae* Cirujano, Velayos & P. García 1993 (art. 5, 8)]

3a. *Ruppialia maritimae* J. Tüxen 1960

[*Zannichellietalia pedicellatae* Schaminée, Lanjouw & Schipper 1990 (syntax. syn.), *Zannichellio-Ruppialia* Schaminée & Den Hartog in Schaminée, Weeda & Westhoff 1995 (art. 29), *Riellietalia helicophyllae* Cirujano, Velayos & P. García 1993 (art. 5, 8)]

3.1. *Ruppion maritimae* Br.-Bl. ex Westhoff in Bennema, Sissingh & Westhoff 1943

[*Ruppion maritimae* Br.-Bl. 1931 (art. 8), *Althenio-Ruppion* Den Hartog 1981 (art. 8)]

3.1.1. *Enteromorpha intestinalidis-Ruppium maritimae* Westhoff ex Tüxen & Böckelmann 1957

[*Ruppium maritimae* Iversen 1934 (art. 31), *Enteromorpha intestinalis-Ruppia rostellata* ass. Westhoff in Bennema, Sissingh and Westhoff 1943 (art. 1)]

4. ZOSTERETEA MARINAE Pignatti 1954

4a. *Zosteretalia* Béguinot 1941

4.1. *Zosterion* Christiansen 1934

4.1.1. *Zosteretum noltii* Harmsen 1936

comunidade de *Zostera marina*

II. VEGETAÇÃO DULÇAQUÍCOLA FONTINAL, ANFÍBIA E TURFOFILA

IIA. VEGETAÇÃO PRIMOCOLONIZADORA EFÊMERA

5. ISOETO-NANOJUNCETEA Br.-Bl. & Tüxen ex Westhoff, Dijk & Passchier 1946

[*Isoeto-Nanojuncetea* Br.-Bl. & Tüxen 1943 (art. 8), *Crypsietea aculeatae* Vicherek 1973 (syntax. syn.) p.p., *Isoetetea velati* De Foucault 1988 (syntax. syn.), *Juncetea bufonii* De Foucault 1988 (art. 24, 29)]

5a. Isoetetalia Br.-Bl. 1936

[*Isoetalia* Br.-Bl. 1931 (art. 8), *Isoetetalia duriei* (Br.-Bl. 1936) O. Bolòs, Vigo, Masalles & Ninot 1990 (art. 29), *Scirpetalia setacei* De Foucault 1988 (art. 29)]

5.1. Cicendion (Rivas Goday in Rivas Goday & Borja 1961) Br.-Bl. 1967

[*Cicendion* Allorge ex Rivas Goday in Rivas Goday & Borja 1961 (corresp. name), *Radiolion linoidis* Rivas Goday ex Pietsch 1973 (syntax. syn.)]

5.1.1. Loto subbiflori-Chaetopogonetum fasciculati Rivas-Martínez & Costa in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

[*Hyperico humifusi-Chaetopogonetum fasciculati* Rivas Goday 1964 (art. 3b)]

5b. Nanocyperetalia Klika 1935

5.2. Verbenion supinae Slavnic 1951

5.2.1. Damasonio alismatis-Crypsietum aculeatae Rivas-Martínez & Costa in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

IIB. VEGETAÇÃO LACUSTRE FUNTINAL E TURFÓFILA

6. PHRAGMITO-MAGNOCARICETEA Klika in Klika & Novák 1941

[*Phragmito-Magnocaricetales* Klika in Klika & Novák 1941 (original name), *Phragmitetea* Tüxen & Preising 1942 (syntax. syn.), *Bolboschoenetetea* Tüxen & Vicherek in Tüxen & Hülbusch 1971 (syntax. syn.), *Glycerio-Nasturtietea* Géhu & Géhu-Franck 1987 (syntax. syn.)]

6a. Phragmitetalia Koch 1926

[*Phragmitetalia eurosibirica* Tüxen & Preising 1942 (art. 34)]

6.1. Phragmition communis Koch 1926

[*Phragmition australis* Koch 1926 nom. mut. (art. 45) (addenda), *Phragmition eurosibiricum* Tüxen & Preising 1942 (art. 34)]

6.1a. Scirpenion maritimi Rivas-Martínez in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

[*Cirsio-Bolboschoenion* (Soó 1947) Passarge 1978 (art. 9, 18, 27), *Cirsio brachycephali-Bolboschoenion* Mucina in Balátová-Tulácková, Mucina, Ellmauer & Wallnöfer in Grabherr & Mucina 1993 (corresp. name), holotypus: *Bolboschoenetum maritimi* Egger 1933, *Bolboschoenion maritimi* Rivas-Martínez in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 nom. mut. (art. 45) (addenda)]

6.1.1. Bolboschoenetum maritimi Egger 1933

[*Scirpetum maritimi* Tüxen 1937 (syntax. syn.)]

6b. Scirpetalia compacti Hejný in Holub, Hejný, Moravec & Neuhäusl 1967 corr. Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

[*Bolboschoenetalia maritimi* Hejný in Holub, Hejný, Moravec & Neuhäusl 1967 (nomencl. syn.), *Bolboschoenetalia compacti* Dahl & Hada• 1941 corr. Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 nom. mut. (art. 45) (addenda)]

6.2. Scirpion compacti Dahl & Hada• 1941 corr. Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

[*Scirpion maritimi* Dahl & Hada• 1941, *Scirpion maritimo-compacti* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (art. 22), *Scirpion compacto-litoralis* Rivas-Martínez in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (syntax. syn.) *Bolboschoenion compacti* Dahl & Hada• 1941 corr. Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 nom. mut. (art. 45) (addenda)]

6.2.1. Scirpetum compacto-litoralis (Br.-Bl. in Br.-Bl., Roussine & Nègre 1952) O. Bolòs 1962 corr. Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

[*Scirpetum maritimi phragmitetosum isiaci* Br.-Bl. in Br.-Bl., Roussine & Nègre 1952 (basion.), *Scirpetum maritimo-litoralis* (Br.-Bl. in Br.-Bl., Roussine & Nègre 1952) O. Bolòs 1962 (art. 43), *Bolboschoeno compacti-Scirpetum litoralis* (Br.-Bl. in Br.-Bl., Roussine & Nègre 1952) O. Bolòs 1962 nom. mut. (art. 45) (addenda)]

III. VEGETAÇÃO HALÓFILA LITORAL E CONTINENTAL

IIA. VEGETAÇÃO DAS DUNAS COSTEIRAS

7. CAKILETEA MARITIMAE Tüxen & Preising ex Br.-Bl. & Tüxen 1952

[*Cakiletea maritimae* Tüxen & Preising in Tüxen 1950 (art. 8), *Cakileto-Therosalicornietea* Pignatti 1953 (art. 35), *Cakilenea maritimae* Pignatti 1954 (corresp. name)]

7a. *Cakiletalia integrifoliae* Tüxen ex Oberdorfer 1949 corr. Rivas-Martínez, Costa & Loidi 1992

[*Cakiletalia maritimae* Tüxen ex Oberdorfer 1949 (art. 43), *Euphorbietalia peplis* Tüxen 1950 (art. 8), *Cakiletalia maritimae* Tüxen in Br.-Bl. & Tüxen 1952 (art. 31)]

7.1. *Cakilion maritimae* Pignatti 1953

[*Euphorbion peplis* Tüxen 1950 (art. 2b), *Cakilion litoralis* Pignatti 1954 (art. 34), *Salsolo-Polygonion maritimi* Pignatti 1953 (syntax. syn.), *Glauccio-Cakilion maritimae* Tüxen ex O. Bolòs 1962 (art. 29)]

7.1.1. *Salsolo kali-Cakiletum aegyptiacae* Costa & Mansanet 1981

[*Salsolo kali-Cakiletum maritimae* Costa & Mansanet 1981 nom. mut. (art. 45) (addenda)]

8. AMMOPHILETEA Br.-Bl. & Tüxen ex Westhoff, Dijk & Passchier 1946

[*Ammophiletea* Br.-Bl. & Tüxen 1943 (art. 8), *Helichryso-Crucianelletea* Géhu, Rivas-Martínez & Tüxen in Géhu 1975 (syntax. syn.), *Euphorbio-Ammophiletea arundinaceae* Géhu & Géhu-Franck 1988 (art. 29, nomen optimum), *Ammophiletea canariensis* Esteve 1968 (art. 34)]

8a. *Ammophiletalia* Br.-Bl. 1933

[*Ammophiletalia* Br.-Bl. 1931 (art. 2b), *Elymetalia arenarii* Br.-Bl. & Tüxen 1943 (art. 8), *Elymo-Ammophiletalia arenariae* Géhu-Franck 1969 (syntax. syn.), *Euphorbio-Ammophiletalia* Géhu & Géhu-Franck 1969 (syntax. syn.)]

8.1. *Ammophilion australis* Br.-Bl. 1921 corr. Rivas-Martínez, Costa & Izco in Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa 1990

[*Ammophilion (arundinaceae)* Br.-Bl. 1921, *Ammophilion* Br.-Bl. 1933 (art. 31), *Ammophilion borealis* Tüxen in Br.-Bl. & Tüxen 1952 (syntax. syn.), *Euphorbio-Ammophilion arenariae* Géhu & Géhu-Franck 1969 (syntax. syn.)]

8.1a. *Ammophilenion australis*

[*Ammophilenion arundinaceae* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (art. 28)]

8.1.1. *Loto cretici-Ammophiletum australis* Rivas-Martínez 1965 corr. (addenda)

[*Loto-Ammophiletum* Rivas-Martínez 1965 (art. 43), *Ammophiletum arundinaceae lotetosum cretici* Rivas Goday & Rivas-Martínez 1958 (corresp. name)]

8.1.2. *Otantho maritimi-Ammophiletum australis* Géhu & Tüxen 1975 corr. Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa 1990

[*Otantho-Ammophiletum arenariae* Géhu & Tüxen 1975 (art. 43), *Agropyro junceiformis-Otanthetum ammophiletosum arenariae* Br.-Bl., Rozeira & P. Silva in Br.-Bl., G. Br.-Bl., Rozeira & P. Silva 1972 (lectotypus: Agron. Lusit. 33(1-4): 224, tb. 3, invent. 1. 1972) (corresp. name), *Otantho-Ammophiletum arenariae* Géhu 1975 (art. 31, publ. 29. XII. 1975)]

8.2. *Agropyro-Minuartion peplidis* Tüxen in Br.-Bl. & Tüxen 1952

[*Euphorbio-Agropyron junceiformis* Géhu & Géhu-Franck 1969 (syntax. syn.), *Agropyron junceiformis* (Tüxen in Br.-Bl. & Tüxen 1952) Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (art. 29), *Honckenyo peplidis-Elytrigion*

boreoatlanticae nom. mut. (art. 45) (addenda)]

8.2a. Agropyro-Minuartienion peploidis

[*Agropyrenion junceiformis* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (art.28)]

8.2.1. Euphorbio paraliae-Agropyretum junceiformis Tüxen in Br.-Bl. & Tüxen 1952 corr. Darimont, Duvigneaud & Lambinon 1962

[*Euphorbio-Agropyretum juncei* Tüxen in Br.-Bl. & Tüxen 1952 (art. 45), *Agropyro junceiformis-Otanthetum agropyro-crucianelletosum* Br.-Bl., Rozeira & P. Silva in Br.-Bl., G. Br.-Bl., Rozeira & P. Silva 1972 (lectotypus: Agron. Lusit. 33 (1-4): 224, tb. 2, invent. 6. 1972) (corresp. name), *Eryngio maritimae-Honckenietum peploidis* Br.-Bl., Rozeira & P. Silva in Br.-Bl., G. Br.-Bl., Rozeira, P. Silva 1972 (syntax. syn), *Honckenyo-Agropyretum junceiformis* Lorient 1986 (syntax. syn.), *Euphorbio paraliae-Elytrigietum boreoatlanticae* Tüxen in Br.-Bl. & Tüxen 1952 nom. mut. (art. 45) (addenda)]

8b. Crucianelletalia maritimae Sissingh 1974

[*Artemisietalia crithmifoliae* Br.-Bl., Rozeira & P. Silva in Br.-Bl., G. Br.-Bl., Rozeira & P. Silva 1972 p.p. (art. 37), *Helichryso-Crucianelletalia maritimae* (Sissingh 1974) Géhu, Rivas-Martínez & Tüxen in Géhu 1975 (art. 22)]

8.3. Helichryson picardii (Rivas-Martínez, Costa & Izco in Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa 1990) Rivas-Martínez, Fernández-González & Loidí 1999

[*Helichrysenion picardii* Rivas-Martínez, Costa & Izco in Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa in Itinera Geobot. 3: 90. 1990 (corresp. name), *Scrophulario-Vulpion* Br.-Bl., Rozeira & P. Silva in Br.-Bl., G. Br.-Bl., Rozeira & P. Silva 1972 p.p. (art. 37)]

8.3.1. Artemisio crithmifoliae-Armerietum pungentis Rivas Goday & Rivas-Martínez 1958

[*Ononidetum gaditanum* Rothmaler 1943 p.p. (art. 37)]

IIIb. VEGETAÇÃO HALÓFILA COSTEIRA E CONTINENTAL

9. JUNCETEA MARITIMI Br.-Bl. in Br.-Bl., Roussine & Nègre 1952

[*Juncetea maritimi* Br.-Bl. ex Tüxen & Oberdorfer 1958 (art. 31), *Asteretea tripolium* Westhoff & Beefink in Beefink 1962 (syntax. syn.)]

9a. Juncetalia maritimi Br.-Bl. ex Horvatic 1934

[*Juncetalia maritimi* Br.-Bl. 1931 (art. 8)]

9.1. Juncion maritimi Br.-Bl. ex Horvatic 1934

[*Juncion maritimi* Br.-Bl. 1931 (art. 8)]

9.1a. Juncenion maritimi

9.1.1. Polygono equisetiformis-Juncetum maritimi J.C. Costa in J.C. Costa, Lousã & Espírito-Santo 1997

10. SAGINETEA MARITIMAE Westhoff, Van Leeuwen & Adriani 1962

[*Frankenietea pulvulentae* Rivas-Martínez in Rivas-Martínez & Costa 1976 (art. 8), *Frankenietea pulverulenta* Rivas-Martínez ex Castroviejo & Porta 1976 (syntax. syn.)]

10b. Frankenietalia pulverulenta Rivas-Martínez ex Castroviejo & Porta 1976

[*Frankenietalia pulverulenta* Rivas-Martínez in Rivas-Martínez & Costa 1976 (art. 2b)]

10.1. Frankenion pulverulenta Rivas-Martínez ex Castroviejo & Porta 1976

[*Frankenion pulverulenta* Rivas-Martínez in Rivas-Martínez & Costa 1976 (art. 2b)]

10.1.1. Parapholido incurvae-Frankenietum pulverulenta Rivas-Martínez ex Castroviejo & Porta 1976

10.2. Hordeion marini Ladero, F. Navarro, C. Valle, Marcos, Ruiz & M.T. Santos 1984

10.2.1. Polypogono maritimi-Hordeetum marini Cirujano 1981

11. SALICORNIETEA FRUTICOSAE Br.-Bl. & Tüxen ex A. & O. Bolòs 1950

[*Salicornietea fruticosa* Br.-Bl. & Tüxen 1943 (art. 8), *Salicornietea fruticosa* Br.-Bl. ex Tüxen & Oberdorfer 1958 (art. 8),

Sarcornietea fruticosae Br.-Bl. & Tüxen ex A. & O. Bolòs 1950 nom. mut. (art. 45) (addenda)]

11a. Salicornietalia fruticosae Br.-Bl. 1933

[*Salicornietalia fruticosae* Br.-Bl. 1931 (art. 8), *Sarcornietalia fruticosae* Br.-Bl. 1933 nom. mut. (art. 45) (addenda)]

11.1. Salicornion fruticosae Br.-Bl. 1933

[*Salicornion fruticosae* Br.-Bl. 1931 (art. 8), *Halimionion portulacoidis* Géhu 1976 (syntax. syn.), *Puccinellio maritimae-Halimionion portulacoidis* Géhu & Biondi 1995 (syntax. syn.), *Sarcornion fruticosae* Br.-Bl. 1933 nom. mut. (art. 45) (addenda)]

11.1a. Salicornienion fruticosae

[*Sarcornienion fruticosae*]

11.1.1. Cistancho phelypaeae-Arthrocnemetum fruticosi Géhu ex Géhu & Géhu-Franck 1977

[*Cistancho phelypaeae-Sarcornietum fruticosae* Géhu ex Géhu & Géhu-Franck 1977 nom. mut. (art. 45) (addenda)]

11.1b. Arthrocnemenion perennis Rivas-Martínez in Rivas-Martínez & Costa 1984

[*Sarcornienion perennis* Rivas-Martínez in Rivas-Martínez & Costa 1984 nom. mut. (art. 45) (addenda)]

11.1.2. Puccinellio ibericae-Sarcornietum perennis J.C. Costa in J.C. Costa, Lousã & Espírito-Santo corr. et nom inv. (addenda)

[*Sarcornion perennis-Puccinellietum convolutae* J.C. Costa in J.C. Costa, Lousã & Espírito-Santo 1997 (art. 42, 43)]

11.2. Arthrocnemion glauci Rivas-Martínez & Costa 1984

[*Arthrocnemion macrostachyi* Rivas-Martínez & Costa 1984 nom. mut. (art. 45) (addenda)]

11.2a. Arthrocnemenion glauci

[*Halocnemenion strobilacei* Géhu & Costa in Géhu, Costa, Biondi, Peris & Arnold 1984 (syntax. syn.)]

11.2.1. Inulo crithmoidis-Arthrocnemetum macrostachyi Fontes ex Géhu & Géhu-Franck 1977

11.2b. Sarcornienion alpini Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa 1990

[*Sarcornienion deflexae* Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa 1990 corr. Géhu & Biondi 1995 (art. 29)]

11.2.2. Halimionio portulacoidis-Sarcornietum alpini Rivas-Martínez & Costa 1984

11.3. Suaedion verae (Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa 1990) Rivas-Martínez, Fernández-González & Loidi 1999 (art. 31)

[*Suaedenion verae* Peinado, Martínez-Parras, Bartolomé & Alcaraz 1989 (corresp. name), *Suaedenion verae* Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa 1990 (corresp. name)]

11.3.1. Cistancho phelypaeae-Suadetum verae Géhu & Géhu-Franck 1977

11b. Limonietalia Br.-Bl. & O. Bolòs 1958

11.4. Limonion confusi (Br.-Bl. 1933) Rivas-Martínez & Costa 1984

[*Staticion galloprovincialis* Br.-Bl. 1931 (art. 8), *Staticion galloprovincialis* Br.-Bl. 1933 (art. 34)]

11.4.1. Limonietum ferulacei Rothmaler 1943

[*Inulo crithmoidis-Limonietum ferulacei* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (syntax. syn.), *Limonietum ferulacei nitrophilum* Rothmaler 1943 (art. 34)]

11.5. Limoniastrion monopetali Pignatti 1953

11.5.1. Polygono equisetiformis-Limoniastrum monopetali Rivas-Martínez & Costa in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

11.5.2.*Arthrocnemo glauci-Juncetum subulati Brulla & Furnari 1976

12. SPARTINETEA MARITIMAE Tüxen in Beefink & Géhu 1973

[*Spartinetea maritimae* Tüxen in Lohmeyer & al. 1962 (art. 2b)]

12a. Spartinetalia maritimae Conard ex Beefink & Géhu 1973

12.1. Spartinion maritimae Conard ex Beefink & Géhu 1973

12.1.1. *Spartinetum densiflorae* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

12.1.2. *Spartinetum maritimae* Corillion 1953

13. THERO-SUAEDETEA Rivas-Martínez 1972

[*Cakilo-Therosalicornietea* Pignatti 1953 (art. 35), *Thero-Salicornienea* Pignatti 1953 (corresp. name), *Thero-Salicornietea strictae* Tüxen in Tüxen & Oberdorfer 1958 (art. 3f), *Thero-Suaedetea* Vicherek 1973 (art. 31), *Thero-Salicornietea* Tüxen in Tüxen & Oberdorfer ex Géhu & Géhu-Franck 1984 (syntax. syn.) nomina conservanda (art. 52) (addenda) against *Thero-Suaedetea* Rivas-Martínez in Bol. R. Soc. Española Hist. Nat. (Biol.) 70:158.1972 (nom. prior.)]

13a. Thero-Suaedetalia Br.-Bl. & O. Bolòs 1958

[*Thero-Salicornietalia* Pignatti 1953 nom. ambig. (art. 36) (addenda)]

13.1. *Thero-Suaedion* Br.-Bl. in Br.-Bl., Roussine & Nègre 1952

[*Thero Salicornion* Br.-Bl. 1933 nom. ambig. (art. 36) (addenda)]

13.1.1. *Suaedo splendidis-Salsoletum sodae* Br.-Bl. 1933

[ass. à *Salsola soda et Suaeda splendens* Br.-Bl. 1931 (art. 2b), ass. à *Salsola soda et Suaeda splendens* Br.-Bl. 1933 (art. 14), *Salsola sodae-Atriplicetum chenopodioidis* Martínez-Parras & Peinado 1993 (art. 5)]

13b. Thero-Salicornietalia Tüxen in Tüxen & Oberdorfer ex Géhu & Géhu-Franck 1984

[*Thero-Salicornietalia strictae* Tüxen in Tüxen & Oberdorfer 1958 (art. 3f)]

13.2. *Salicornion dolichostachyo-fragilis* Géhu & Rivas-Martínez ex Géhu & Géhu-Franck 1984

[*Thero-Salicornion strictae* Tüxen in Tüxen & Oberdorfer 1958 (art. 3f), *Salicornion strictae (dolichostachyae)* Tüxen 1974 (art. 38), *Salicornion dolichostachyo-fragilis* Géhu & Rivas-Martínez 1982 (art. 5), *Salicornion dolichostachyae* Tüxen 1974 corr. Rivas-Martínez 1990 (art. 38)]

13.2.1. *Salicornietum fragilis* Géhu & Géhu-Franck 1984

13.3. *Salicornion patulae* Géhu & Géhu-Franck 1984

13.3.1. *Halimiono portulacoidis-Salicornietum patulae* J.C. Costa in J.C. Costa, Lousã & Espírito-Santo 1997

13.3.2. *Suaedo splendidis-Salicornietum patulae* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 corr. Rivas-Martínez 1991

[*Suaedo splendidis-Salicornietum ramosissimae* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (art. 43)]

IV. VEGETAÇÃO ANTROPOGÊNICA, DE ORLAS SOMBRIAS DE BOSQUES E MEGAFÓRBICAS

IVA. VEGETAÇÃO DE INFLUÊNCIA ANTRÓPICA

14. PEGANO-SALSOLETEA Br.-Bl. & O. Bolòs 1958

[Incl. *Ruderali-Manihotetea utilissimae* Leonard in Taton 1949 corr. O. Bolòs 1988 apud O. Bolòs 1988]

14a. *Salsolo vermiculatae-Peganelia harmalae* Br.-Bl. & O. Bolòs 1954

[Incl. *Ipomoeetalia purpureae* Oberdorfer ex O. Bolòs 1988 apud O. Bolòs 1988]

14.1. *Carthamo arborescentis-Salsolion oppositifoliae* Rivas Goday & Rivas-Martínez 1963

[*Salsolo oppositifoliae-Suaedion* Rigual 1972 (syntax. syn.)]

14.1.1. *Frankenio laevis-Salsoletum vermiculatae* J.C. Costa in J.C. Costa, Lousã & Espírito-Santo 1997

15. STELLARIETEA MEDIAE Tüxen, Lohmeyer & Preising ex von Rochow 1951

[*Ruderali-Secalieta cerealis* Br.-Bl. in Br.-Bl., Gajewski, Wraber & Walas 1936 (art. 3f, 36), *Stellarietea mediae* Tüxen, Lohmeyer & Preising in Tüxen 1950 (art. 8), *Chenopodieta* Br.-Bl. in Br.-Bl., Roussine & Nègre 1952 (syntax. syn.), *Secalieta* Br.-Bl. in Br.-Bl., Roussine & Nègre 1952 (syntax. syn.), *Sisymbrietea* Gutte & Hilbig 1975 (syntax. syn.)]

15A. CHENOPODIO-STELLARIENEA Rivas Goday 1956

[*Chenopodienea muralis* Rivas-Martínez, Báscones, T.E. Díaz, Fernández-González & Loidi 1991 (art. 8, 17), *Sisymbrienea* Pott 1995 (art. 5), *Chenopodienea muralis* Rivas-Martínez, Báscones, T.E. Díaz, Fernández-González & Loidi ex Théurillat,

Aeschimann, Küpfer & Spichiger 1995 (syntax. syn.)]

15a. Chenopodietalia muralis Br.-Bl. in Br.-Bl., Gajewski, Wraber & Walas 1936 em. Rivas-Martínez 1977

[*Chenopodietalia* Br.-Bl. 1931 (art. 2c, 8), *Chenopodietalia* Br.-Bl. in Br.-Bl., Gajewski, Wraber & Walas 1936]

15.1. **Mesembryanthemion crystallini** Rivas-Martínez, Wildpret, Del Arco, O. Rodríguez, Pérez de Paz, García Gallo, Acebes, T.E. Díaz & Fernández-González 1993

15.1.1. *Spergulario bocconei-Mesembryanthemetum nodiflori* J.C. Costa in J.C. Costa, Lousã & Espírito-Santo 1997

15b. Thero-Brometalia (Rivas Goday & Rivas-Martínez ex Esteve 1973) O. Bolòs 1975

[*Thero-Brometalia annua* Rivas Goday & Rivas-Martínez 1963 (art. 3b, 34), *Thero-Brometalia annua* Rivas Goday & Rivas-Martínez ex Esteve 1973 (art. 34), *Brometalia rubenti-tectorum* Rivas-Martínez & Izco 1977 (syntax. syn.)]

15.2. **Linario polygalifoliae-Vulpion alopecuoris** Br.-Bl., Rozeira & P. Silva in Br.-Bl., G. Br.-Bl., Rozeira & P. Silva 1972

[*Vulpion alopecuoris* Rivas-Martínez & Izco 1977 (art. 8), *Linario viscosae-Vulpion alopecuoris* Rivas-Martínez & Izco ex Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (syntax. syn.)]

15.2.1. *Chamaemelo mixti-Vulpietum alopecuoris* Rivas-Martínez, Costa, Castroviejo & E. Valdés in J.C. Costa, Lousã, Capelo, Espírito-Santo & Izco in J.C. Costa, Lousã, Capelo, Espírito-Santo, Izco & Arsenio 2000

[*Chamaemelo mixti-Vulpietum alopecuoris* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (art. 3b)]

15.2.2. *Linario viscosae-Carduetum meonanthi* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

15c. Sisymbrietalia officinalis J. Tüxen in Lohmeyer & al. 1962 em. Rivas-Martínez, Báscones, T.E. Díaz, Fernández-González & Loidi 1991

15.3. **Hordeion leporini** Br.-Bl. in Br.-Bl., Gajewski, Wraber & Walas 1936 corr. O. Bolòs 1962

[*Hordeion murini* Br.-Bl. 1931 (art. 2c, 8), *Hordeion murini* Br.-Bl. in Br.-Bl., Gajewski, Wraber & Walas 1936 (art. 43, 45), *Rudereto-Hordeion* Rothmaler 1943 pro syn. (art. 3a)]

15.3.1. *Anacyclo radiati-Hordeetum leporini* O. Bolòs & Rivas-Martínez in Rivas-Martínez 1978

[*Beto maritimae-Rapistretum rugosi* Martínez-Parras & Peinado 1993 (art. 5)]

V. VEGETAÇÃO PRATENSE E DE PRADOS

VA. PASTAGENS TEROFÍTICAS

16. HELIANTHEMETEA GUTTATI (Br.-Bl. in Br.-Bl., Roussine & Nègre 1952) Rivas Goday & Rivas-Martínez 1963 em. Rivas-Martínez 1978

[*Helianthemetea annua* Br.-Bl. in Br.-Bl., Roussine & Nègre 1952 (art. 34), *Helianthemetea annua* Br.-Bl. ex Rivas Goday 1958 (art. 34), *Tuberarietea guttatae* Br.-Bl. in Br.-Bl., Roussine & Nègre 1952 em. Rivas-Martínez 1978, *Stipo-Brachypodietea distachyae* (Br.-Bl. in Br.-Bl., Emberger & Molinier 1947) Brullo 1985 (syntax. syn.), *Tuberarietea guttatae* (Br.-Bl. in Br.-Bl., Roussine & Nègre 1952) Rivas Goday & Rivas-Martínez 1963 nom. mut. (art. 45) (addenda)]

16a. Helianthemetalia guttati Br.-Bl. in Br.-Bl., Molinier & Wagner 1940

[*Tuberarietalia guttatae* Br.-Bl. in Br.-Bl., Molinier & Wagner 1940 nom. mut. (art. 45) (addenda)]

16.1. **Helianthemion guttati** Br.-Bl., in Br.-Bl., Molinier & Wagner 1940

[*Moenchion erectae* Rivas Goday 1958 (syntax. syn.), *Vulpion ligusticae* Aubert & Loisel 1971 (syntax. syn.), *Tuberarion guttatae* Br.-Bl., in Br.-Bl., Molinier & Wagner 1940 nom. mut. (art. 45) (addenda)]

Comunidade de *Tuberaria bupleurifolia* e *Tolpis barbata*

16b. Malcolmietalia Rivas Goday 1958

16.2. **Anthyllido hamosae-Malcolmion lacerae** Rivas Goday 1958 em. Rivas-Martínez 1978

16.2.1. *Tolpido barbatae-Tuberarietum bupleurifoliae* J.C. Costa, Lousã & Espírito-Santo 1997

16.3. **Linarion pedunculatae** Díez-Garretas, Asensi & Esteve in Díez-Garretas 1984

16.3.2. *Triplachno nitentis-Silenetum ramosissimae* Peinado, Martínez-Parras, Alcaraz, Garre & Cruz 1985

[*Ononido variegatae-Linarietum pedunculatae* Díez-Garretas ex Izco & P. & J. Guitián 1988 (syntax. syn.)]

VB. PRADOS E PASTAGENS VIVÁZES XEROFÍTICAS E MESOFÍTICAS

17. STIPO GIGANTEAE-AGROSTIETEA CASTELLANAE Rivas-Martínez, Fernández-González & Loidi 1999

17a. Agrostietalia castellanae Rivas Goday in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

17.1. *Agrostion castellanae* Rivas Goday 1958 corr. Rivas Goday & Rivas-Martínez 1963

[*Agrostion castellanae-tenuis* Rivas Goday 1958 (original name) (art. 43)]

17.1.1. *Asphodelo aestivi-Armerietum gaditanae* Allier & Bresset 1977 corr. (addenda)

[*Asphodelo cerasiferi-Armerietum gaditanae* Allier & Bresset 1977 (art. 43), *Centaureo exaratae-Armerietum gaditanae* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (art. 22)]

VC. VEGETAÇÃO DE PASTAGENS ANTROPIZADAS POR CORTE OU PASTOREIO

18. MOLINIO-ARRHENATHERETEA Tüxen 1937

[*Molinieto-Arrhenatheretales* Tüxen 1937 (original name), *Molinio-Juncetea* Br.-Bl. in Br.-Bl., Emberger & Molinier 1947 (art. 8), *Arrhenatheretea* Br.-Bl. in Br.-Bl., Emberger & Molinier 1947 (art. 8), *Plantaginetea majoris* Tüxen & Preising ex von Rochow 1951 (syntax. syn.), *Molinio-Juncetea* Br.-Bl. ex A. & O. Bolòs 1950 (syntax. syn.), *Agrostietea stoloniferae* Müller & Görs in Görs 1968 (syntax. syn.), *Agrostio stoloniferae-Arrhenatheretea* De Foucault 1989 (art. 29)]

18a. Holoschoenetalia vulgaris Br.-Bl. ex Tchou 1948

[*Holoschoenetalia* Br.-Bl. 1931 (art. 8), *Phalaridetalia coerulescentis* Galán, Deil, Haug & Vicente 1997 (syntax. syn.)] 18.1.

18.1. Molinio-Holoschoenion vulgaris Br.-Bl. ex Tchou 1948

[*Holoschoenion* Br.-Bl. 1931 (art. 8), *Brizo-Holoschoenion* Rivas Goday 1964 (syntax. syn.), incl. *Brizo-Holoschoenenion* Rivas Goday & Borja 1961 (art. 3b), *Brizo-Holoschoenenion* (Rivas Goday 1964) Rivas-Martínez in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (corresp. name), *Junco acuti-Holoschoenenion* Herrera 1995 (corresp. name)]

18.1.1. *Galio palustris-Juncetum maritimi* Rivas-Martínez & Costa in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

18.1.2. *Holoschoeno-Juncetum acuti* Rivas-Martínez & Costa in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

[*Melico magnolii-Holoschoenetum* subass. *calcareum* Rivas Goday 1964 (art. 34)]

18b. Plantaginetalia majoris Tüxen & Preising in Tüxen 1950

[*Potentillo-Polygonetalia* Tüxen 1947 (art. 3b), *Agrostietalia stoloniferae* Müller & Görs in Görs 1968 (syntax. syn.), *Eleocharitetalia palustris* De Foucault 1984 (syntax. syn.)]

18.2. *Trifolio fragiferi-Cynodontion* Br.-Bl. & O. Bolòs 1958

18.2.1. *Trifolio resupinati-Caricetum chaetophyllae* Rivas-Martínez & Costa in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

VI. VEGETAÇÃO SERIAL ARBUSTIVA E SUBARBUSTIVA

Via. VEGETAÇÃO SERIAL SUBARBUSTIVA

19. CALLUNO-ULICETEA Br.-Bl. & Tüxen ex Klika & Hada• 1944

[*Calluno-Ulicetea* Br.-Bl. & Tüxen 1943 (art. 8), *Calluno-Ulicetea* Br.-Bl. & Tüxen ex Westhoff, Dijk & Passchier 1946 (art. 22), *Nardo-Callunetea* Preising 1949 (syntax. syn.)]

19a. Ulicetalia minoris Quantin 1935

[*Calluno-Ulicetalia* (Quantin 1935) Tüxen 1937 (art. 29), *Ulicetalia* Br.-Bl. ex Rothmaler 1954 (syntax. syn.), *Erico-Ulicetalia* Br.-Bl., P. Silva & Rozeira 1965 (syntax. syn.)]

19.1. *Stauracanthion boivinii* (Rivas-Martínez 1979) Rivas-Martínez, Fernández-González & Loidi 1999

[*Stauracanthion boivinii* Rivas-Martínez 1979 (corresp. name)]

19.1.1. *Tuberario majoris-Stauracanthetum boivinii* Br.-Bl., P. Silva & Rozeira ex Rivas-Martínez 1979

[*Neptum boivinii* Br.-Bl., P. Silva & Rozeira 1965, non *Ulicetum boivinii* Rothmaler in Br.-Bl., Molinier & Wagner 1940]

20. CISTO-LAVANDULETEA Br.-Bl. in Br.-Bl., Molinier & Wagner 1940

[*Carici-Genistetea lobelii* Klein 1972 (syntax. syn.), *Carlinetea macrocephalae* Gamisans 1977 (art. 29) p.p., *Rumici-Astragaletea siculi* E. Pignatti, Pignatti, Nimis & Avanzini 1980 (syntax. syn.), *Cerastio-Carlinetea nebrodensis* Brullo 1983 (art. 29)]

20a. Lavanduletalia stoechadis Br.-Bl. in Br.-Bl., Molinier & Wagner 1940 em. Rivas-Martínez 1968

[*Lavanduletalia stoechadis* Br.-Bl. 1931 (art. 8), *Ulici-Cistetalia* Br.-Bl., P. Silva & Rozeira 1965 (syntax. syn.)]

20.1. *Cistion ladaniferi* Br.-Bl. ex A. & O. Bolòs 1950

[*Cistion ladaniferi* Br.-Bl. 1931 (art. 8), *Cistion ladaniferi* suball. *medio-mediterraneum* Br.-Bl. in Br.-Bl., Molinier & Wagner 1940 (corresp. name, art. 34), *Cistion medio-mediterraneum* (Br.-Bl. in Br.-Bl., Molinier & Wagner 1940) O. Bolòs 1962 (art. 34), *Calicotomo spinosae-Cistion ladaniferi* (Br.-Bl. in Br.-Bl., Molinier & Wagner 1940) Rivas-Martínez 1979 (nomencl. syn.)]

20.1.1. *Genisto hirsutae-Cistetum ladaniferi* Rivas Goday 1956

20b. Stauracantho genistoidis-Halimietalia commutati Rivas-Martínez, Lousã, T.E. Díaz, Fernández-González & J.C. Costa 1990

20.1. *Coremation albi* Rothmaler 1943

[*Stauracantho-Coremation* Br.-Bl., P. Silva & Rozeira 1965 (art. 37, 38), *Stauracantho genistoidis-Halimion halimifolii* Rivas-Martínez 1979 (syntax. syn.)]

20.1.1. *Cistetum bourgaeani (libanotidis)* Rothmaler 1954

20.1.2. *Halimio halimifolii-Stauracanthetum genistoidis* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

VIIb. VEGETAÇÃO SERIAL ARBUSTIVA E DE ORLAS DE BOSQUES

21. CYTISETEA SCOPARIO-STRIATI Rivas-Martínez 1975

[*Cytisetea scopario-striati* Rivas-Martínez 1974 (art. 3f)]

21a. Cytisetalia scopario-striati Rivas-Martínez 1975

[*Cytisetalia scopario-striati* Rivas-Martínez 1974 (art. 3f), *Retametalia sphaerocarphae* Rivas Goday 1980 (syntax. syn.)]

21.1. *Retamion sphaerocarphae* Rivas-Martínez 1981

[*Cytiso-Retamion* Rivas Goday 1980 (art. 5), *Chronantho-Retamion* Rivas Goday 1980 (art. 5)]

21.1.1. *Centaureo sphaerocephalae-Retametum monospermae* Tregubov 1963

[*Retametum sphaerocephalae* Ceballos & Martín Bolaños 1930 (art. 2b), *Pycnocomono rutifoliae-Retametum monospermae* Pérez Chiscano 1983 (syntax. syn.)]

22. RHAMNO-PRUNETEA Rivas Goday & Borja ex Tüxen 1962

[*Rhamno-Prunetea* Rivas Goday & Borja 1961 (art. 3b), *Crataego-Prunetea* Tüxen 1962 (art. 3a), *Sambucetea* Doing 1962 (art. 8), *Urtico-Sambucetea* Passarge & Hofmann 1968 (syntax. syn.), *Franguletea* Doing ex Westhoff & Den Held 1969 (syntax. syn.) p.p., *Rhamno-Prunetea* Rivas-Martínez, Arnaiz & Loidi in Arnaiz & Loidi 1983 (corresp. name)]

22a. Prunetalia spinosae Tüxen 1952

[*Frangulo-Prunetalia insititiae* Rivas Goday 1964 (syntax. syn.)]

22.1. *Pruno-Rubion ulmifolii* O. Bolòs 1954

[*Ligustro-Rubion ulmifolii* Géhu & Delelis in Delelis 1973 (art. 3b), *Lonicerion periclymeni* Géhu, De Foucault & Delelis 1983 (syntax. syn.)]

22.1c. *Rosenion carioti-pouzinii* Arnaiz ex Loidi 1989

66.2.9. *Lonicero hispanicae-Rubetum ulmifolii* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

VII. VEGETAÇÃO POTENCIAL FLORESTAL, PRÉ-FLORESTAL, SEMI-DESÉRTICA E DESÉRTICA: BOSQUES, MATAGAIS, SEMI-DESERTOS E DESERTOS

VIIa. MATAGAIS E BOSQUES PALUSTRES, QUINÓFILOS OU COLONIZADORES RIPÍCOLAS

23. NERIO-TAMARICETEA Br.-Bl. & O. Bolòs 1958

23a. *Tamaricetalia* Br.-Bl. & O. Bolòs 1958 em. Izco, Fernández-González & A. Molina 1984

23.1. *Tamaricion africanae* Br.-Bl. & O. Bolòs 1958

23.1.1. *Polygono equisetiformis-Tamaricetum africanae* Rivas-Martínez & Costa in Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980

VIIb. VEGETAÇÃO CLIMATÓFILA E EDAFÓFILA MEDITERRÂNICA E EUROSSIBERIANA

24. QUERCETEA ILICIS Br.-Bl. ex A. & O. Bolòs 1950

[*Quercetea ilicis* Br.-Bl. in Br.-Bl., Emberger & Molinier 1947 (art. 8), *Quercetea ilicis* Br.-Bl. in Br.-Bl., Roussine & Nègre 1952 (art. 22), *Euphorbietea dendroidis* Zohary & Orshan 1966 (art. 8), *Pistacio lentisci-Rhamnetea alaterni* Julve 1993 (syntax. syn.)]

24a. *Quercetalia ilicis* Br.-Bl. ex Molinier 1934 em. Rivas-Martínez 1975

[*Quercetalia ilicis* Br.-Bl. 1931 (art. 8)]

24.1. *Quercu rotundifoliae-Oleion sylvestris* Barbéro, Quézel & Rivas-Martínez in Rivas-Martínez, Costa & Izco 1986

24.1.1. *Oleo sylvestris-Quercetum suberis* Rivas Goday, Galiano & Rivas-Martínez ex Rivas-Martínez 1987

[*Oleo-Quercetum suberis* Rivas Goday, Galiano & Rivas-Martínez 1964 (art. 2b), *Oleo-Quercetum suberis pteridietosum aquilini* Rivas-Martínez, Costa, Castroviejo & E. Valdés 1980 (art. 4, 5)]

24b. *Pistacio lentisci-Rhamnetalia alaterni* Rivas-Martínez 1975

[*Tetraclinido-Arganietalia* Rivas Goday ex F. Casas & M.E. Sánchez 1972 (art. 2b, 3f), *Tetraclinido-Arganietalia* Rivas Goday ex Esteve 1973 (art. 2b, 3f)]

24.1. *Asparago albi-Rhamnion oleoidis* Rivas Goday ex Rivas-Martínez 1975

24.1.1. *Asparago aphylli-Myrtetum communis* Rivas-Martínez, Cantó, Fernández-González & Sánchez-Mata ex J.C. Costa, Lousã & Espírito-Santo 1997