

Núñez *et al.*, 2015. Proposal of a typology of Spanish mountain lakes and ponds using the composition of functional groups of macrophytes. *Limnetica* 34 (2), 2015: 507-526

SUPPLEMENTARY INFORMATION

Table S1. Some morphometric and chemical characteristics of the 31 study lakes and ponds.

Características morfológicas y químicas de los 31 lagos y lagunas estudiados.

Lake	Hydroperiod (P: permanent; T: temporary)	Area (ha)	Maximum Depth (m)	pH	Conductivity (μ S/cm)	Orthophosphate (μ g/l)
AS1	P	12.0	25	8.3	167	3.02
AS2	P	8.0	3	8.0	154	5.95
AV1	P	5.7	9.8	6.5	6	3.02
AV3	P	8.6	7	6.3	6	2.69
AV4	P	1.3	4.1	6.7	10	14.17
AV8	P	0.7	3,8	6.1	8	13.59
AV10	P	0.9	3.4	6.5	6	6.11
BU1	T	0.5	0.7	5.8	15	33.07
LE1	P	1.0	2.5	7.8	167	2.03
LE2	P	3.6	14	5.1	19	3.67
LE3	T	0.4	0.5	4.9	19	10.16
LE4	T	0.3	0.5	5.3	23	67.60
LE7	P	2.5	2	6.3	23	7.98
LE8	T	1.2	0.4	5.1	11	15.56
LE11	P	5.2	16	6.5	14	2.24
PA1	P	2.3	7.6	7.0	23	4.72
PA3	P	2.7	8.5	6.3	7	3.66
SO3	P	1.0	1.9	6.1	10	8.13
SO4	P	1.2	0.4	6.5	16	6.63
SO5	P	3.3	1.3	6.8	18	4.83
ZA3	P	11.1	4.8	6.6	17	8.34
ZA5	P	2.5	8	6.6	15	4.03
ZA6	P	5.7	12	6.3	6	7.67
ZA7	P	1.5	3.5	5.2	43	21.19
ZA8	P	2.1	6.5	6.7	16	10.74
ZA11	P	4.2	6.5	6.7	10	9.30
ZA12	P	10.0	2.5	7.3	14	8.72
ZA13	P	0.1	0.4	6.6	14	8.12
ZA14	T	1.8	0.3	6.2	7	47.19
ZA15	P	2.2	1.9	6.9	18	6.95
ZA16	P	2.8	8	7.1	24	9.49

Table S2. Geographic variables of the 31 study lakes and ponds. *Variables geográficas de los 31 lagos y lagunas estudiados.*

Code	Name	Elevation (m.a.s.l.)	Latitude	Longitude
AS1	Enol	1070	43.27	4.98
AS2	La Ercina	1108	43.27	4.98
AV1	Cimera	2140	40.27	5.3
AV3	Grande de Gredos	1940	40.25	5.28
AV4	Trampal 2	2120	40.3	5.72
AV8	Cuadrada	2080	40.22	5.6
AV10	Bajera	2070	40.27	5.3
BU1	Pardillas 1	1850	42.05	3.05
LE1	Las Verdes	1720	43	6.13
LE2	Ausente	1750	43.05	5.35
LE3	La Mata 1	1500	42.97	6.22
LE4	La Mata 2	1480	42.97	6.22
LE7	La Baña	1400	42.25	6.75
LE8	Robledo	1435	43.02	5.32
LE11	Truchillas	1750	42.18	6.48
PA1	Las Lomas	2060	43.02	4.75
PA3	Pozo Curavacas	1790	42.98	4.68
SO3	Larga	2010	42	2.87
SO4	Helada	1435	41.98	2.85
SO5	Cebollera	1850	41.98	2.65
ZA3	Lacillo	1700	42.2	6.78
ZA5	Cuadro	1680	42.15	6.78
ZA6	Clara Grande	1600	42.12	6.8
ZA7	Clara Pequeña	1600	42.12	6.8
ZA8	La Roya	1620	42.13	6.78
ZA11	Yegua	1790	42.18	6.73
ZA12	Los Peces	1700	42.18	6.73
ZA13	Camposagrado	1700	42.12	6.81
ZA14	Castromil	1685	42.12	6.83
ZA15	Aguas Cernidas	1805	42.18	6.8
ZA16	Mancas	1600	42.13	6.77

Table S3. Species list with the name, the functional group of the species and the number of lakes in which the species was present. *Lista de especies con su nombre, el grupo funcional al que pertenecen y el número de lagos en el que están presentes.*

Species name	Functional group	Number of lakes
<i>Alopecurus geniculatus</i>	Helophyte	7
<i>Antinoria agrostidea</i>	Helophyte	9
<i>Antinoria agrostidea</i> var. <i>natans</i>	Helophyte	1
<i>Carex acutiformis</i>	Helophyte	2
<i>Carex rostrata</i>	Helophyte	10
<i>Carex vesicaria</i>	Helophyte	6
<i>Eleocharis palustris</i>	Helophyte	3
<i>Eleocharis quinqueflora</i>	Helophyte	3
<i>Equisetum arvense</i>	Helophyte	3
<i>Galium palustre</i>	Helophyte	4
<i>Glyceria fluitans</i>	Helophyte	14
<i>Juncus articulatus</i>	Helophyte	3
<i>Juncus bulbosus</i>	Helophyte	1
<i>Juncus effusus</i>	Helophyte	9
<i>Juncus heterophyllus</i>	Helophyte	4
<i>Juncus squarrosus</i>	Helophyte	20
<i>Littorella uniflora</i>	Helophyte	4
<i>Mentha aquatica</i>	Helophyte	2
<i>Menyanthes trifoliata</i>	Helophyte	2
<i>Ranunculus flammula</i>	Helophyte	15
<i>Ranunculus longipes</i>	Helophyte	1
<i>Veronica scutellata</i>	Helophyte	6
<i>Viola palustris</i>	Helophyte	10
<i>Callitriche brutia</i>	Floating-leaved	13
<i>Luronium natans</i>	Floating-leaved	5
<i>Polygonum amphibium</i>	Floating-leaved	1
<i>Potamogeton natans</i>	Floating-leaved	7
<i>Ranunculus peltatus</i>	Floating-leaved	17
<i>Sparganium angustifolium</i>	Floating-leaved	4
<i>Chara fragilis</i>	Submerged	1
<i>Chara vulgaris</i>	Submerged	1
<i>Groenlandia densa</i>	Submerged	1
<i>Myriophyllum alterniflorum</i>	Submerged	2
<i>Nitella flexilis</i>	Submerged	4
<i>Drepanocladus aduncus</i>	Bryophyte	1
<i>Fontinalis antypiretica</i>	Bryophyte	10
<i>Fontinalis squamosa</i>	Bryophyte	1
<i>Sphagnum</i> sp.	Bryophyte	23
<i>Warnstorfia exannulata</i>	Bryophyte	17
<i>Isoetes echinosporum</i>	Isoetid	2
<i>Isoetes velatum</i> subsp. <i>asturicense</i>	Isoetid	7

