

## ADDITIONS TO THE VASCULAR FLORA OF ALBANIA

M. DESFAYES

*rue de Prévent 33, 1926 Fully, Switzerland, e-mail: mdesfaye@omedia.ch*

ABSTRACT - I present here a list of 12 species heretofore unrecorded for Albania, together with a map showing the extension of *Lemna minuta* in southern Europe. *Caldesia parnassifolia* is recorded from the Lake Skadar, Montenegro.

KEY WORDS - Floristic, Albania, Montenegro.

## INTRODUCTION

The aquatic and wetland species listed hereafter are not indicated in the Flora e Shqipërisë (Flora de l'Albanie) by Papparisto *et al.* (1988), Qosja *et al.*, (1992, 1996), Vangjeli *et al.* (2000). The specimens are conserved in my herbarium and will eventually be housed in the Conservatoire Botanique of Geneva.

***Bidens frondosa*** L. Liqën Shkodër, 23.07.2000; liqen Ohrid at Lin, 1.07.2002.

***Carex cuprina*** (Sand ex Heuf.) Nend. (*C. otrubae* Podp.). Devoll river north of Plasa, 2.07.2002.

***Carex viridula*** Michaux (*C. serotina* Mérat). Peatbog east of Bulqizës, after the bridge, 30.06.2002

***Cyperus badius*** Desfontaines, 1798. [*C. longus* L. var. *badius* (Desf.) Camb., 1827; *C. longus* subsp. *badius* (Desf.) Murbeck, 1899]. Mouth of a torrent at Bunjet (southwestern littoral), 26.06.2002; river near Dervişan, 25.06.2002. *Cyperus longus* L., a quite distinct species, occurs in the interior and northern part of Albania.

***Eleocharis uniglumis*** (Link) Schultes. Peatbog east of Bulqizës, after the bridge, 30.06.2002; Lake Ohrid: Boqeze, 1.07.2002.

***Glyceria maxima*** (Hartmann) Holmberg. Korça region: canal, 1 km northwest of Plasa, 2.07.2002.

*Lemna minuta* Humboldt, Bonpland & Kunth, 1816 (*L. minima* Phil., *L. minuscula* Herter). Canal 2 km north of Cangonji north of Tirana, 29.06.2002; Korça region: canal at Dishnica, 2.07.2002; river northeast of Plasa, 2.07.2002; canal 1 km northwest of Plasa, 2.07.2002. This species is in rapid expansion in southern Europe. See map.

*Salvinia natans* (L.) Allioni. Roskovec, 27.07.2001.

*Schoenoplectus litoralis* (Schrader) Palla. Canal, 10 km south of Fier south of Tirana, 26.07.2001.

*Scirpoides holoschoenus* (L.) Soják subsp. *australis* (Murray) Soják, 1972. This taxon is indicated as *Scirpus holoschoenus* L. (*Holoschoenus vulgaris* Link) in Flora e Shqipërisë (op. cit.), p. 402. *Scirpoides holoschoenus* subsp. *holoschoenus* (*Holoschoenus vulgaris*) does not occur in Albania where only the widespread subsp. *australis* occurs. See Desfayes, 2004, Flora Medit. 14 (in prep.)

*Spirodela polyrhiza* (L.) Schleider. Abundant in a canal, 5 km south of Durrës, 29.06.2002.

*Typha laxmannii* Lepechin. Peza west of Tirana, passed the town, before the bridge on the river Ezren. 28.07.2001, 2.07.2002; Ballsh, 14 km south of Patos, 28.07.2001.

#### ADDENDUM

*Caldesia parnassifolia* (Bassi) Parlatore. It appears worthwhile to mention here the presence of this very rare and endangered species in Europe, in Lake Skadar (Shkodër, Scutari), Montenegro, 23.07.2001. Exact location withheld.

#### ACKNOWLEDGEMENTS

I wish to present here my deepest thanks to Prof. Dr. Elias Landolt who has been so kind and patient as to identify many collections of *Lemna*.

#### REFERENCES

- DESFAYES, M., 2004 - *The specific status of Cyperus badius Desf., and the subspecies of Scirpoides holoschoenus (L.) Soják, with special reference to Sardinia. Flora Medit.* 14 (prep.)
- PAPARISTO K. (chief ed.), DEMIRI, M., MITRUSHI I. & QOSIA X., 1988 - Flora e Shqipërisë (Flore de l'Albanie). Vol. 1. Acad. Sc. RPS d'Albanie.
- QOSIA, X. (chief ed.), PAPARISTO K., DEMIRI M., VANGJELI J. & BALZA E., 1992 - Flora e Shqipërisë (Flore de l'Albanie). Vol. 2. Acad. Sc. RPS d'Albanie.
- QOSIA, X. (chief ed.), PAPARISTO K., VANGJELI J. & RUCI B., 1996 - Flora e Shqipërisë (Flore de l'Albanie). Vol. 3. Acad. Sc. RPS d'Albanie.



Observations by the author of *Lemna minuta* in southern Europe: **1. France:** Indre: La Brenne: étang de Blizon, 24.07.1991. **2. Gascogne:** étangs de Léon et d'Aureillhan (in ditches), 3.07.1992. **3. Montpellier:** Les Matelles: le Lirou, 19.09.1988. **4. Camargue:** St. Gilles, rice field, 6.07.1992. **5. Switzerland:** Cantone Ticino: Lago di Ceresio, 07.1989 (*Boll. Soc. Ticinese Sci. Nat.* 78: 213, 1990). **6. Italy:** Pavese: Bereguardo: Fiume Ticino, 07.1993 (*Ann. Mus. civici, Roveredo* 10: 243, 1994; risaie, 17.08.1990; San Biagio, risaie, 26.08.1994 (*Saussurea* 28: 65, 1997)). **7. Trentino:** Lago di Caldonazzo, 9.09.1989 (*Informatore Bot. Italiano* 24: 52, 1992, segnalazione 677). **8. Rovigo:** foce dell'Adige. **9. Ferrara:** Bosco di Mésola; Ravenna: San Alberto: Fiume Reno (covering several hectares), 23.08.1998. **10. Albania:** canal 2 km north of Cangonji (north of Tirana), 29.06.2002. **11. Canal at Dishnica** (Korça region), 2.07.2002; river northeast of Plasa, and canal 1 km northwest of Plasa, 2.07.2002. **12. Sardinia** (15 localities, 1998-2003).