

SPECIAL NOTICES

LAST REMINDER--Yearly subscriptions end with this issue!! So, if you wish to receive CPN in continuity, please send in your renewal by the end of January. We will probably not be able to honor any renewals in large numbers after that date since subscription is by the volume, and the size of the first issue printing will be based on renewals received by the end of January, plus a small allowance reserved for new subscribers. Please note the increase in subscription rates as listed in the last issue of CPN.

VINCENT BELLIS (Dept. of Biology, East Carolina University, Greenville, N. C. 27834) is attempting to organize a new survey of the Dionaea range in the Carolinas. This will be done in order to determine the extent of shrinkage of the range, and there will be rechecking of locations previously listed. This will take some interested manpower and the survey is tentatively planned for next spring. So all of you Carolinians and others close by who are interested, drop Vincent a note.

RECENT LITERATURE

Dexheimer, Jean: Some ultrastructural aspects of mucilage secretion by the digestive glands of Drosera rotundifolia. CR Hebd. Seances. Acad. Sci. Ser. D. Sci. Nat. 275 (18): 1983-1986 1972

The author describes in detail, on the cellular level, that the secretion of mucilage is discontinuous in the digestive glands. In one gland, there are cells found in all stages (rest, accumulation, vesicular expulsion) and all can be observed easily.

Hansen, C.: Note on Drosera rotundifolia L. in Greenland. Botanisk Tidsskrift 67: 342-343 1973

Distribution of Drosera rotundifolia in Greenland was well discussed with a fine mapping. Also, the chromosome number of the species was listed as $2n=20$.

Jaffe, M. J.: The role of ATP in mechanically stimulated rapid closure of the Venus's fly trap. Plant Physiol. 51 (1): 17-18 1973

When the midribs of untreated traps of Dionaea are frozen in liquid nitrogen after rapid closure, they contain significantly less ATP than those before closure. Exogenous ATP causes a significant increase in the rate of closure. Illuminated traps close faster than those in the dark. The traps of plants placed in 100% oxygen close much faster than do air controls, while 100% carbon dioxide inhibits closure. It is concluded that ATP is probably the native source of potential energy for contraction.

- Khan, Reayat: Lentibulariaceae: in the Proceeding of the symposium of comparative embryology of Angiosperm. Bull. Indian Nat. Sci. Acad. 41: 290-297 1970
Lentibulariaceae embryology is reviewed. The embryological data show that the Lentibulariaceae is placed near the Scrophulariaceae.
- Kocan, Alan: Carnivorous plants. Wildlife in North Carolina 37: 14-15 1973
A popular article featuring color photos representing each genus of CP found in North Carolina.
- Kondo, K.: The chromosome number of Utricularia denticulata Benjamin. Ann. Mo. Bot. Gard. 59: 474-476 1972
Taylor reduced this species to a synonym of U. livida. Specimens obtained originally from Mexico disclosed $n=18$. This is consistent with the author's previous contention that $x=9$ is found only in the New World species.
- Kondo, K.: Chromosome numbers of some Drosera taxa. J. Jap. Bot. 48: 193-198 1973
Reported were: D. menziesii, $2n=26$; D. peltata (Australian origin), $n=16$ (differs with previous counts on plants from other countries); D. spathulata (Kansai type), $2n=60$; and a hybrid, D. x 'Nagamoto' (D. longifolia x D. spathulata Kansai) exhibited two discrepant counts, $2n=50$ (expected theoretically) and $2n=43$, the latter possibly due to meiotic irregularity.
- Maier, R.: Das Austreiben der Turionen von Utricularia vulgaris L. nach verschieden langen Perioden der Austrocknung. Mit 5 Abbildungen. Flora 162: 269-283 1973
This is a physiological observation of the sprouting of turions of Utricularia vulgaris after different periods of drying. It is particularly characteristic for Utricularia vulgaris to form turions under unfavourable growing conditions, and this fact already shows that both stadium-the well developed plant and the turions-are of different ecophysiological meaning. Differences appear in the total water content of both habits. The relative water content of the turions is lowered by stored assimilates.
- Mel'nyk, S.D.: One more occurrence of Aldrovanda vesiculosa L. in the Ukraine. Ukr. Bot. Zh 29(3): 381-383 1972 IN RUSSIAN
This species was found in the region of Lake Shatskie in the Ukrainian SSR for the first time.
- Rao, A.N. & E.T.: Ong. Germination of compound pollen grains. Grana 12(2): 113-120 1972
Among the many species of pollen grains that germinated in a sucrose media of 10-30% was that of Nepenthes ampullaria. The authors found that the size of the pollen grain and its internal osmotic pressure were two important parameters for successful germination rate.

Roberts, Patricia R. and Oosting, H.J.: Responses of Venus' Fly Trap (Dionaea muscipula) to factors involved in its endemism. Ecol. Monogr. 28(2): 193-218 1958

A very comprehensive paper covering many aspects of Dionaea from the most recent determination of its range, phenology and ecology as well as a review of some of the literature.

Taylor, P.A.: A new combination in Genlisea. Kew Bull. 26(3): 444 1972

Genlisea hispidula Stapf ssp. subglabra is proposed for that part of the geographic range occupied by G. hispidula retaining the species outside of this range.

Taylor, P.A.: A new species of Utricularia (Lentibulariaceae) from Rwanda and Burundi and notes on several species of Utricularia occurring in the area of the Flore du Congo, du Rwanda et du Burundi. Bull. Jard. Bot. Nat. Belg. 41: 269-272 1971

As a new species, Utricularia troupinii, which grows in Rwanda and Burundi, was described for the first time. Utricularia microcalyx (P. Taylor) P. Taylor was described as a new combination. Utricularia neglecta, U. incerta, U. stellaris, and U. vulgaris were placed under U. australis R. Br. as synonyms.

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