

occurrences of *A. hispanicum* (Cosson) Greuter & Burdet and *A. seelosii* Leybold subsp. *glabrum* (Litard. & Maire) Rothm., further taxa were to be expected. Study of herbarium material for a forthcoming catalogue of the floristic biodiversity of N. Morocco, revealed a specimen from the High Atlas, (Ouazazate: pr. oppidulum Tilmi, 2120 m, in rupibus calcareis plus minusve verticalibus, *Blanche et al.*, 9731, 1-VI-1985, acc. no. 813030, BC) which is referable to subsp. *pachyrachis* (Christ) Lovis & Reichstein. This tetraploid taxon of sheltered, often overhanging, limestone rocks was previously only known from S. and W. Europe extending north to Britain (RICKARD, 1989) and far Western Asia (KHULLAR, 1994).

Another specimen (Gurugù, 35°13'N, 2°59'W, *F. Sennen*, 26.x.1931, acc. no. 814321, BC), which had previously been determined by Walter as *A. obovatum* Viv. lusus *subtripinnatum* Walter, was clearly distinct from *A. obovatum* subsp. *lanceolatum* (Fiori), P. Silva. One frond suggested *A. fontanum* (L.) Bernh., known from further South in the High Atlas (QUÉZEL, 1959), because of its greatly reduced lowermost pinnules (Fig. 1b). However, mean lengths of spores from this and the other fronds, c. 42 µm, indicate the plant(s) to be almost certainly tetraploid. Frond shape, soral position and spore size are all compatible with the conclusion that this specimen is *A. foreziense* Legrand, an allotetraploid taxon derived from diploid *A. obovatum* Viv. and *A. fontanum*, previously considered an European endemic. MAIRE (1952) reports a var. *numidicum* Trab. of *A. obovatum*, which he claims closely approaches *A. foreziense*. We have yet to see material identified as this taxon to determine its relationships but suspect it may prove synonymous with *A. foreziense*.

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