

Grant awarded: Collecting *Jasione* (Campanulaceae) specimens in southern Spain 2001.

Grant Recipients: Fátima Sales (Coimbra University, Portugal/Research Associate, Royal Botanic Garden Edinburgh/Honorary Fellow, Sciences & Engineering Faculty, Edinburgh University) and I.C. Hedge (Honorary Associate, Royal Botanic Garden, Edinburgh).

Background: Fátima Sales & I.C. Hedge have been working on different aspects of the generically isolated and taxonomically complex *Jasione* (Campanulaceae) for several years. There have been publications on anatomy (Edinb. J. Bot. **58**: 405-422. 2001); nomenclature (Anales J. Bot. Madrid **59**: 163-172. 2001); and the detailed floristic account of the Iberian species (*Flora iberica* **14**: 153-170. 2001). These publications were based on both herbarium specimens (mainly Spanish herbaria, Royal Botanic Garden Edinburgh and Natural History Museum, London) and field-studies.

Earlier field-work in 1998, also funded by the Davis Expedition Fund, had been carried out in NE Portugal, C and N Spain.

Objectives: The main goal of our summer 2001 field-work was to study the genus in the Sierras of Andalucia and to collect silica-dried material for subsequent molecular study.

The trip: Left Coimbra on August 1st 2001 and returned there on 10th August; over 5500 km were covered in Fátima's Volkswagen Polo. It was hot to extremely hot.

Results: Six main sites were targeted: the Grazalema Natural Park (the Reserve with the beautiful forests of *Abies pinsapo*), Sierra Tejada, Sierra de Ronda, Sierra de las Nieves, Sierra Nevada and Sierra Maria. In the Málaga region we joined up with a colleague from Málaga University, Teresa Navarro, who gave us much help and guidance.

Although the time of our field-work was rather later in the year than ideal (because of Fátima's University commitments), we were pleased with what we achieved. Populations of *J. crispa* subsp. *tristis*, *J. crispa* subsp. *mariana*, the localised annual endemic *J. penicillata* and *J. montana* were found, studied and collected. We missed out on the chasmophytic, possibly evolutionary basal species, *J. foliosa*.

With these recent specimens added to previous ones, there is now enough material to proceed with a larger molecular analysis of the genus and to establish inter-relationships and its phylogeny. A proposal for a MSc project within this research has been drawn up and we hope it will get under way soon. Voucher specimens that complement the silica-gel material are housed at the Royal Botanic Garden Edinburgh.

In addition to our *Jasione* activities, we made c. 50 numbers of other herbarium specimens, especially from higher altitudes, for Edinburgh (E) and Coimbra (COI). These have been incorporated within the two herbaria.

Expenses: Costs were: air fare & insurance c. £ 400
films c. £ 30
petrol, tolls £ 120
accommodation etc £ 500
miscellaneous c. £ 50
TOTAL £1100

We wish to express our gratitude to the Davis Expedition Fund for financial support.

Fátima Sales Ian Hedge
Royal Botanic Garden Edinburgh 11th February 2002