



Pablo Dávila Harris

Report for the Postgraduate Grant Scheme, first session June 2005

Summary and acknowledgements:

A fieldwork season was carried out from the 29th of June to the 6th of August 2005 in southern Tenerife. Main objectives were to map previously undescribed pyroclastic units, produce stratigraphic logs, correlations and characterization of units using sedimentological and physical volcanology techniques. Numerous samples were collected during this field visit, with the aim of producing a more complete geochemical framework for the succession, as well as petrographic and component analysis for the matrix of such deposits. In addition, systematic sampling of fresh juvenile pumices collected mainly from plinian pumice-fall deposits, took place for the separation of feldspar phenocrysts, in order to constrain radiometric dates with $^{39}\text{Ar}/^{40}\text{Ar}$ methodology.

The interpretation of field and analytical data is central part of my PhD project and it will provide a better understanding of the volcanic processes involved in the evolution and emplacement of the Quaternary pyroclastic succession of Las Cañadas volcano.

The summer 2005 field season in Tenerife of my PhD research project, had been possible with the support of the **Postgraduate Grant Scheme of the International Association of Sedimentologists (IAS) first session, June 2005**. At the same time I feel very grateful for the award obtained and I will refer to, and use the logo of the IAS on all national (local) and international presentations that I attend during my degree at the University of Leicester.

Kind regards

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