

3.8 Jukes-Darwin (A.J. Cartwright)

3.8.1 Work Completed 1983-84

During March 1984, a total of 5 man-days were spent sampling rhyolite lavas in the Jukes-Darwin area. This programme was helicopter supported, enabling a large number of samples (113), to be taken over a large area in a short time. The need for this work arose when two rock chip samples, anomalous in gold (5.8 and 2.3 ppm), were collected from the summit of Mt. Darwin in 1982-83. The anomalous samples were vein-style magnetite ± hematite ± quartz in rhyolite, and therefore these were the sampling targets during the 1983-84 programme. Other features such as pyrite or breccia occurrences were also considered as sampling targets. A series of traverses were made off the summit of Mt. Darwin and out onto the adjoining ridges i.e. the South Darwin Plateau and Intercolonial Spur (see Fig. 43). Brief factual geological notes were made and all samples were assayed for Cu, Pb, Zn, Ag, Sn, WO₃, Au.

3.8.2 Results

Short sample descriptions and the assay information appear in Appendix VI. Plans showing the samples locations together with any factual geology recorded are given in Figures 26-28. The assays are displayed on a separate series of sheets (Figures. 32-34).

- (i) Gold. The overall aim of the rock chip sampling programme performed at Jukes-