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RECORDS 1955/107

AIRBORNE GEOPHYSICAL SURVEY, GEORGETOWN AREA, NOVEMBER 1954

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Area Covered:

The area of the above survey is bounded by approximately 144°E , 18°S on the north side, 19°S on the south side and a line from the Etheridge River through Forest Home to the Gregory Range on the western side. This area was flown by aircraft VH-BUR with straight east-west traverses at one mile separation. Total area covered is approximately 3,840 square miles. Approximately 4,140 traverse miles were flown.

Operations:

Navigation was by reference to photography, and a strip camera was operated throughout the survey to give a continuous record of the aircraft's position. The nominal height was 500 feet above ground level. The scintillometer was operated with two crystal units coupled to a single ratemeter, and with a small amount of longitudinal shielding.

Results:

About 10-15 well defined scintillometer anomalies were recorded and a larger number of lesser ones. These do not appear to occur in any one particular geological formation, some being in the Pre-Cambrian and others in granites, etc. The positions of some of the more important anomalies were determined approximately as they were recorded, and were plotted.

One group of anomalies occurs along an approximately N-S line, which extends for a distance of about twelve miles south from Mr. Lighthouse.

A second group of anomalies occurs about a line extending approximately N.N.E. from Mt. Darcy for a distance of twelve miles.

A third group occurs in an area approximately five miles west of Perpendicular Peak and north-east of Gregory Range.

Dates and Personnel:

The above survey was completed between 8th November and 19th November, aircraft maintenance having been carried out at Townsville between 3rd and 5th November. The party comprised Capt. Duffield, F/O. Wales, Engineer Gordon of T.A.A., Miss Murphy, and Messrs. Goodeve, Howard, Ciszek and Gillespie of B.M.R. The aircraft returned to Essendon on November 23.