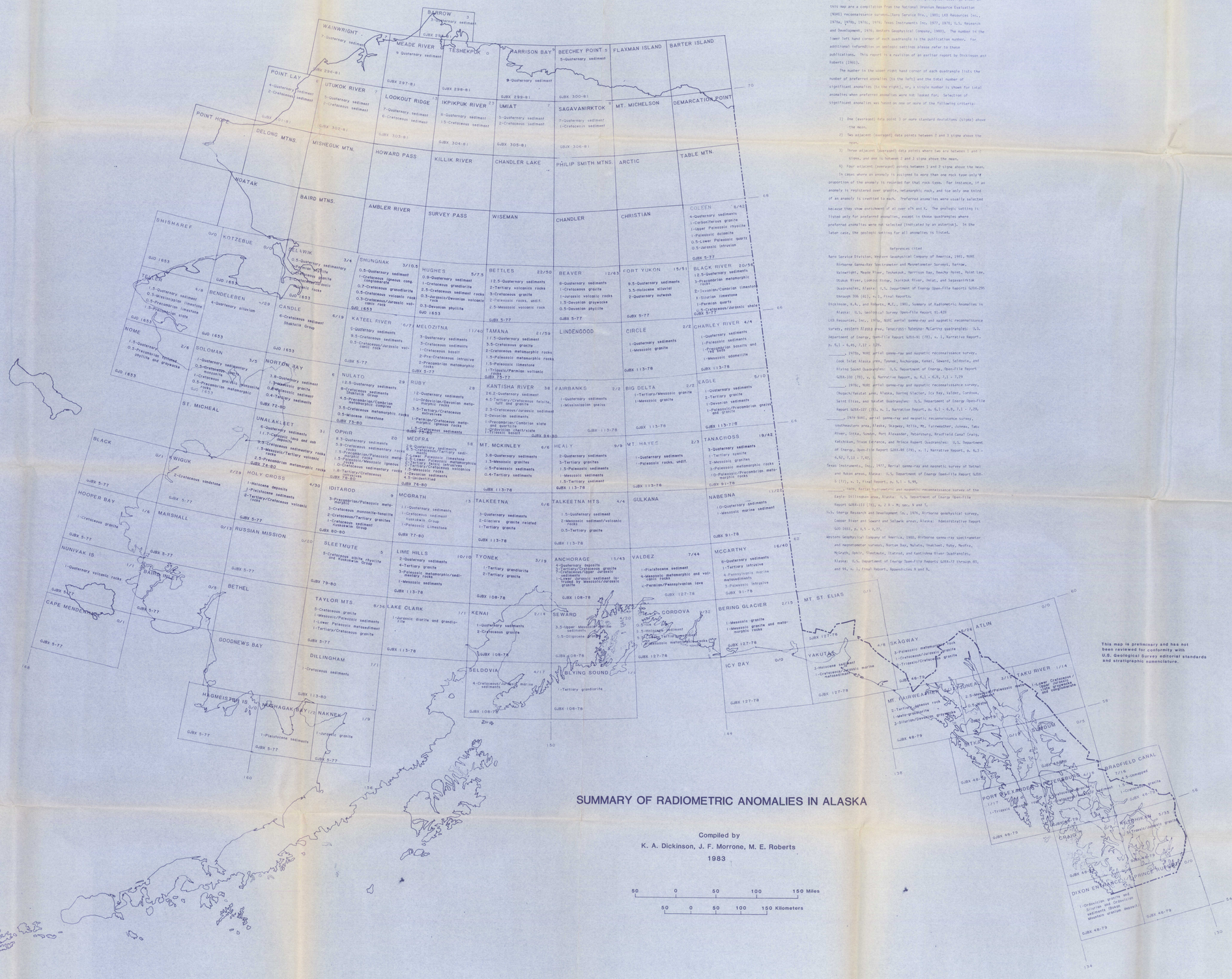
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT 83-169



This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

EXPLANATION

The gamma-ray anomalies and their related geological settings shown on this map are a compilation from the National Uranium Resource Evaluation (NURE) reconnaissance surveys (Bendix Service Div., 1981; LKB Resources Inc., 1978a, 1978b, 1979c, 1979; Texas Instruments Inc, 1977, 1978; U.S. Research and Development, 1976; Western Geophysical Company, 1980). The number in the lower left hand corner of each quadrangle is the publication number. For additional information on geologic settings please refer to these publications. This report is a revision of an earlier report by Dickinson and Roberts (1981).

The number in the upper right hand corner of each quadrangle lists the number of preferred anomalies (to the left) and the total number of significant anomalies (to the right), or, a single number is shown for total anomalies when preferred anomalies were not looked for. Selection of significant anomalies was based on one or more of the following criteria:

1) One (averaged) data point 3 or more standard deviations (sigma) above the mean.

2) Two adjacent (averaged) data points between 2 and 3 sigma above the mean.

3) Three adjacent (averaged) data points where two are between 1 and 2 sigma, and one is between 2 and 3 sigma above the mean.

4) Four adjacent (averaged) points between 1 and 2 sigma above the mean.

In cases where an anomaly is assigned to more than one rock type only a proportion of the anomaly is recorded for that rock type. For instance, if an anomaly is registered over granite, metamorphic rock, and ice only one third of an anomaly is credited to each. Preferred anomalies were usually selected because they show enrichment of eU over eTh and K. The geologic setting is listed only for preferred anomalies, except in those quadrangles where preferred anomalies were not selected (indicated by an asterisk). In the latter case, the geologic setting for all anomalies is listed.

References cited

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