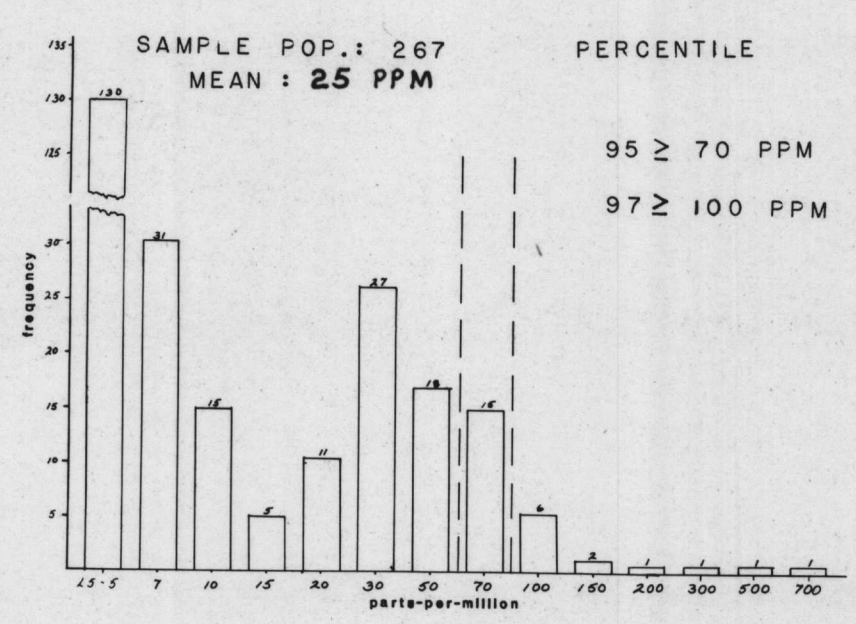


PROPERTY OF U.S. GEOLOGICAL SURVEY

PROPERTY OF U.S. GEOLOGICAL SURVEY

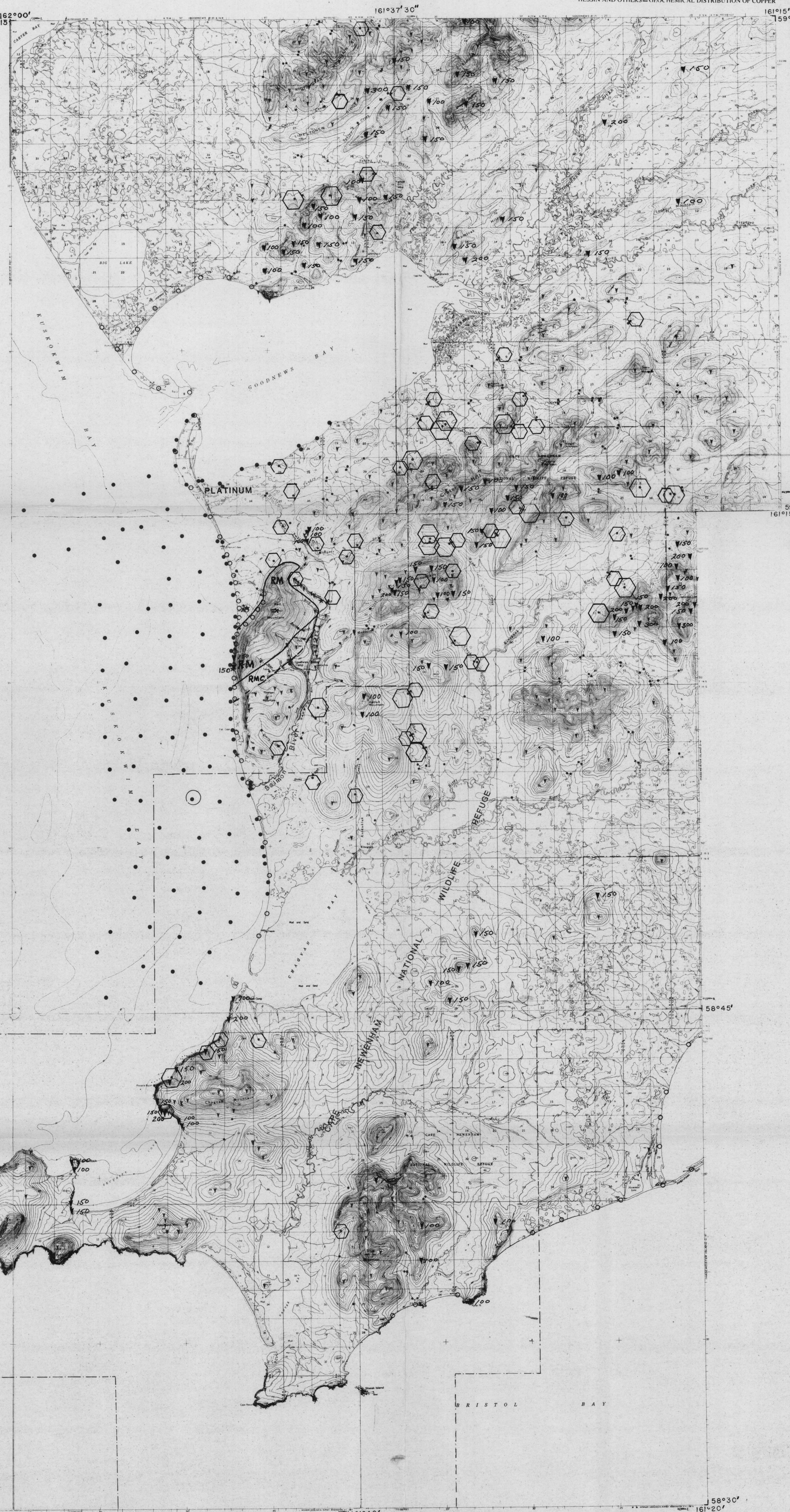
HESSIN AND OTHERS—GEOCHEMICAL DISTRIBUTION OF COPPER

**HISTOGRAM**  
HISTOGRAM OF GEOCHEMICAL ABUNDANCE DERIVED FROM RESULTS OF SEMIQUANTITATIVE EMISSION SPECTROGRAPHIC ANALYSES OF SELECTED ROCK SAMPLES FROM THE RED MOUNTAIN ULTRAMAFIC BODY (RM) REPORTED BY CLARK, GRYBECK, GREENWOOD, AND OTHERS (1978).

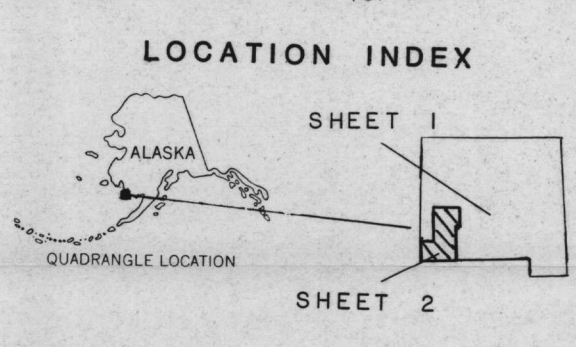
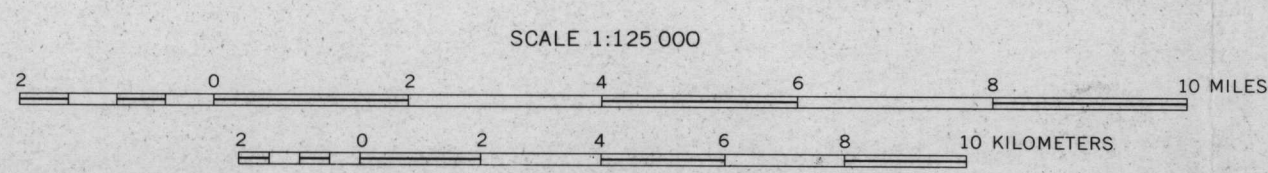


**EXPLANATION OF SYMBOLS**

- RM** RED MOUNTAIN ULTRAMAFIC BODY
- RMC** RED MOUNTAIN CONTACT ZONE
- GEOCHEMICAL SAMPLE SITES**
- ★ CONCENTRATE (OVERSTREET AND OTHERS, 1973)
- BEACH AND STREAM SEDIMENTS (BERRYHILL, 1963)
- OFFSHORE AND ONSHORE SEDIMENTS (BARNES AND OTHERS, 1978)
- ▼ ROCK
- STREAM DRAINAGE SEDIMENT
- ABUNDANCE**
- ▼100 NUMBER WITH SOLID ROCK SAMPLE-SITE SYMBOL REPRESENTS GEOCHEMICAL CONCENTRATION IN PARTS PER MILLION (PPM)
- ABUNDANCE SYMBOLS (BASED ON GEOCHEMICAL ABUNDANCE VALUES IN SHEET 1 HISTOGRAMS)**
- SEDIMENT**
- 150 PPM 95 PERCENTILE
- 200 PPM 97 PERCENTILE
- CONCENTRATE**
- 150 PPM



BASE MAP FROM REDUCED MOSAIC OF U.S. GEOLOGICAL SURVEY MILE-TO-THE-INCH QUADRANGLES: GOODNEWS A-7 (1954), A-8 (1954); HAGEMEISTER ISLAND C-5 (1948), C-6 (1948), C-7 (1947), D-5 (1954), AND D-6 (1950).



**GEOCHEMICAL MAP SHOWING DISTRIBUTION AND ABUNDANCE OF  
COPPER  
IN THE VICINITY OF PLATINUM  
GOODNEWS AND HAGEMEISTER ISLAND QUADRANGLES REGION, SOUTHWESTERN ALASKA**

BY  
T. D. HESSIN, P. M. TUFEN, J. C. SEWARD, S. J. QUINTANA, A. L. CLARK, DONALD GRYBECK, J. M. HOARE, AND W. L. COONRAD

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.