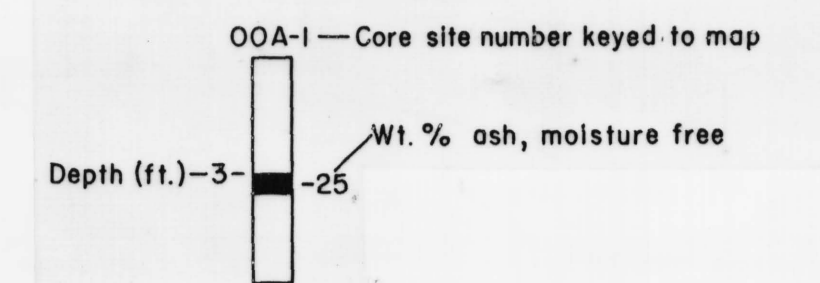


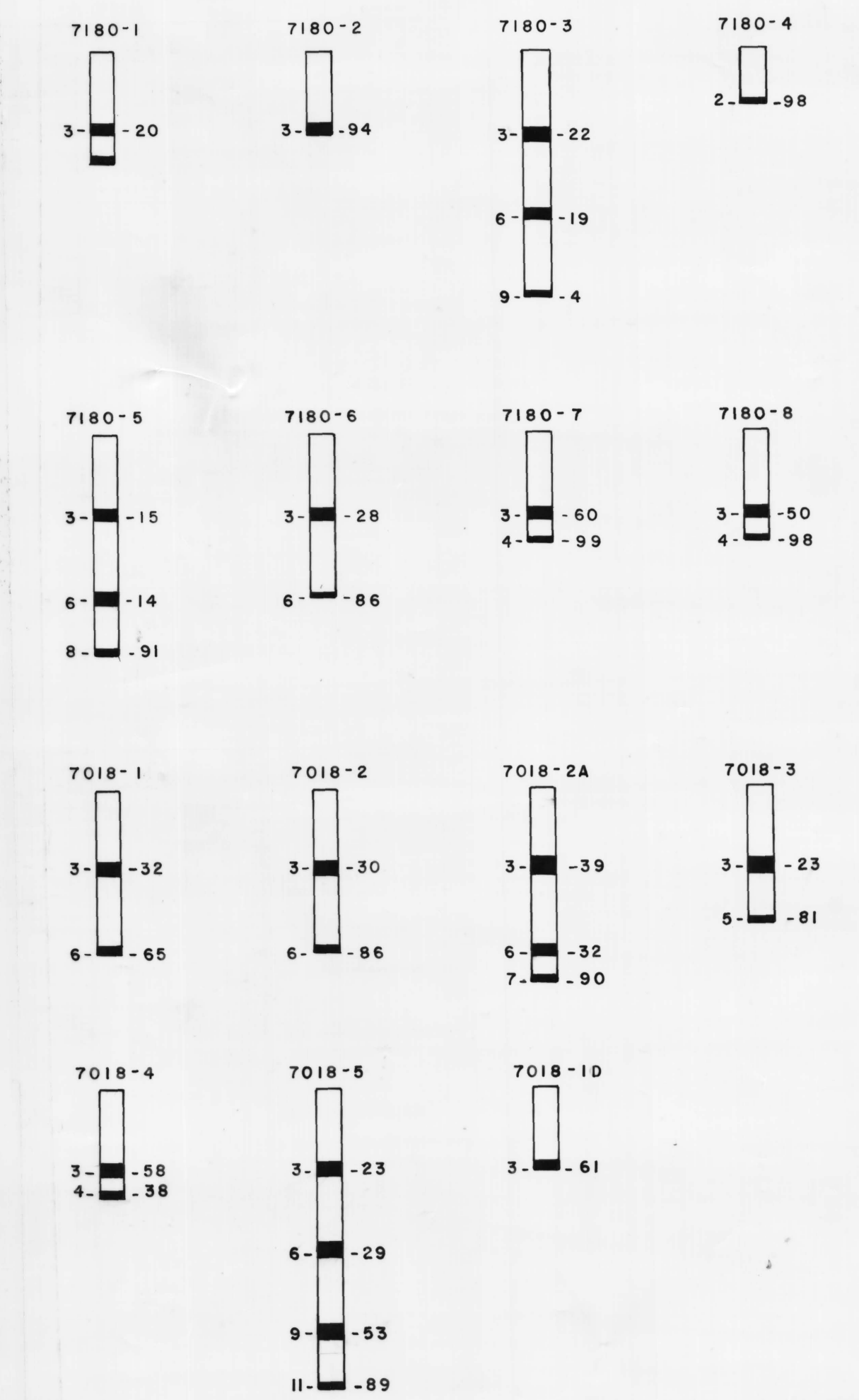
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EXPLANATION

Core Explanation



Core Samples



Estimated Peat Resources

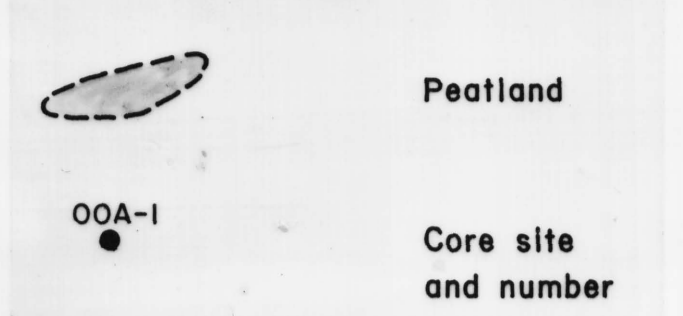
- Basal**
- 7 lb. peat/ft³, moisture and ash free (MAF)
 - 9,732 BTU/lb., mean moisture and ash free BTU determined from analyzed cores of this study
 - 6.1 ft. mean peat depth determined from cores on Alaska Open-File Report 150 L-M.

R4W-R3W	Acres	Tons X 10 ³
T16N	3,721	3,460.5
T16N	905	841.9
T14N	2,150	2,000.0
T13N		

Total Acres Peat 6,776
 Total Tons Peat, MAF 6,302.3 x 10³
 Total Quads*, MAF 0.123

*1 Quad = 10⁶ BTU

Symbols

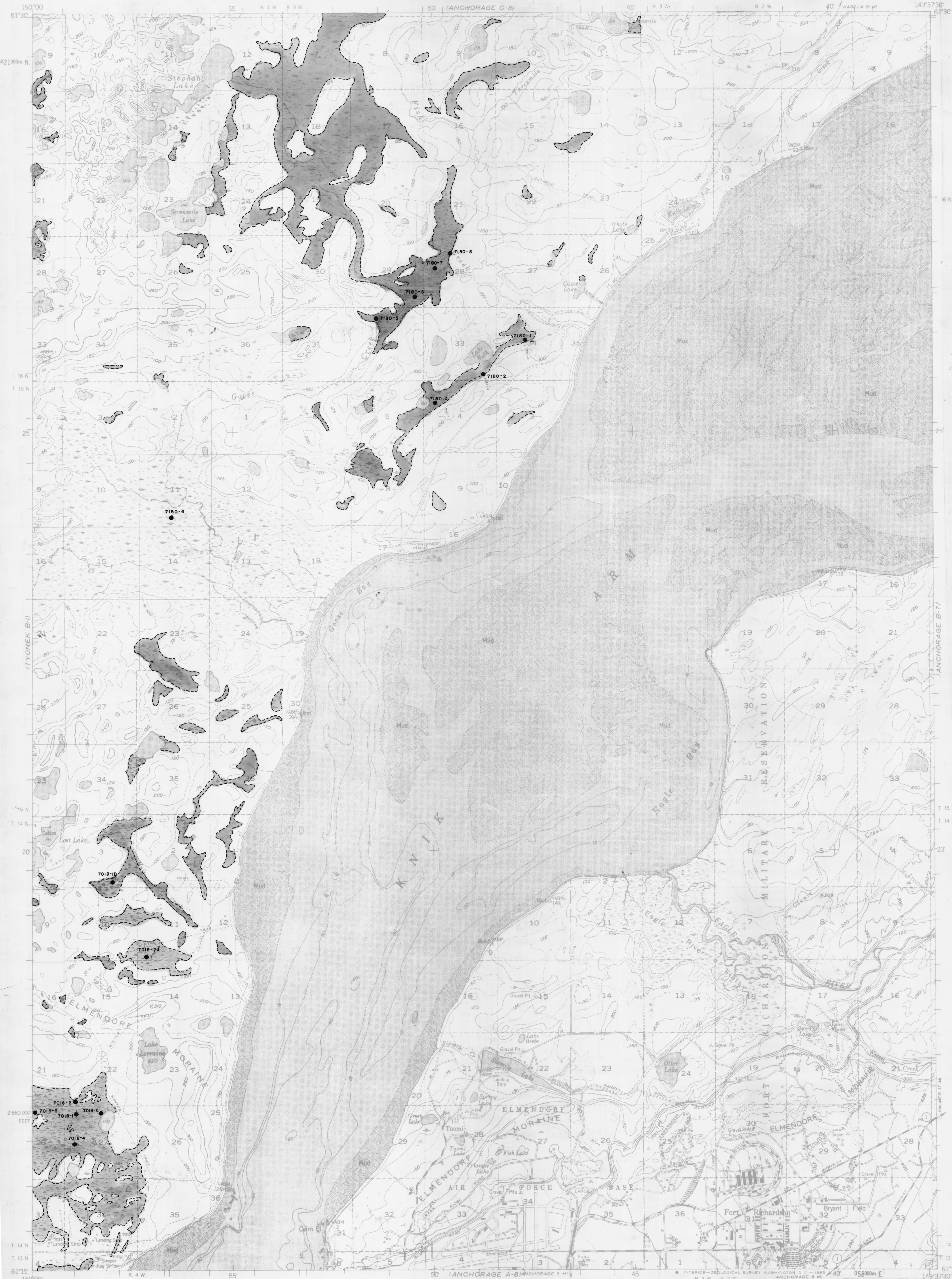


In this report, total tons and total Btu values are for moisture- and ash-free peat. U.S. Department of Energy fuel-grade-peat criteria include a minimum of 8,300 Btu/lb (dry) and a maximum of 25 percent ash. However, 8,300 Btu/lb corresponds to an ash content of about 17 percent, which is considered critical for fuel-grade peat. Twenty-seven percent of all samples (n=511) analyzed for ash has less than 25 percent ash and 11 percent has less than 17 percent ash. Thus, values for total tons and total Btu's of *in-situ* fuel-grade peat are approximately 11 percent of those values shown, or 693 x 10³ and 1.4 x 10¹³, respectively; total quads is 0.014.

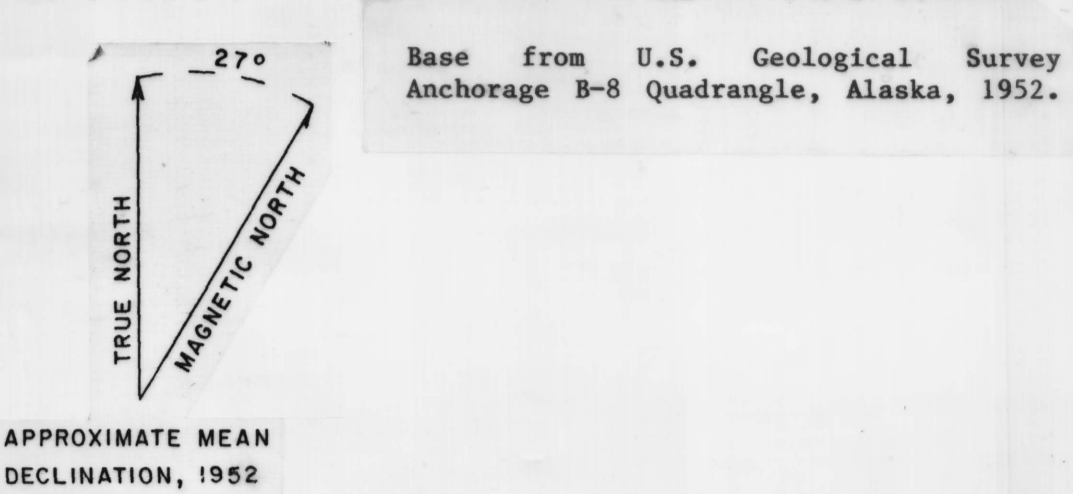
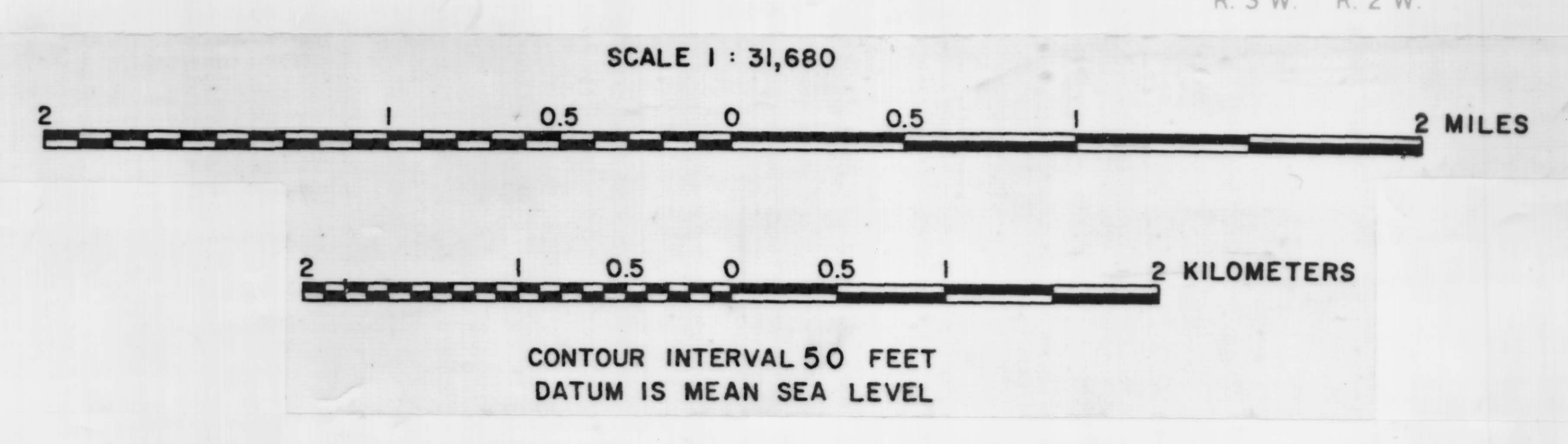
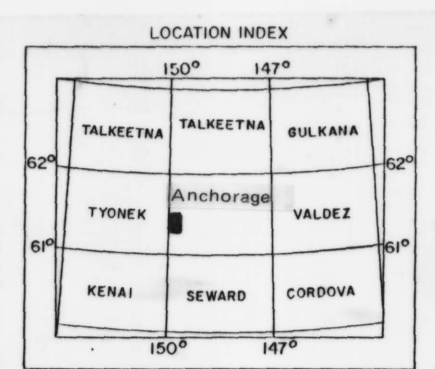
If peat processing reduces the ash content by 50 percent, the maximum allowable *in-situ* ash content is 34 percent. Forty-three percent of all samples analyzed for ash has less than 34 percent ash; 43 percent of the total tons and total Btu's is 2,710 x 10³ and 5.3 x 10¹³, respectively; total quads is 0.053.

This is a preliminary publication of the Alaska Division of Geological and Geophysical Surveys and as such has not received final editing and review. The author will appreciate candid comments on the accuracy of the data, and welcome suggestions that will improve the report.

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Based on aerial photograph interpretation (1978 NSA U-2, lines 105-107) September 1981 through November 1981. Coring by Northern Technical Services (NORTEC), Anchorage, Alaska, July 1981 through September 1981. Analysis for NORTEC by Dr. Rouse Farham, consultant, Hibbing, Minnesota, and Mineral Industry Research Laboratory, University of Alaska, Fairbanks, Alaska.



PEAT RESOURCE MAP, ANCHORAGE B-8 QUADRANGLE, ALASKA

by
 Rawlinson, S. E., Huck, R. W., and Hardy, S. B.
 1982