

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH  
THE STATE OF MINNESOTA  
DEPARTMENT OF IRON RANGE RESOURCES AND REHABILITATION

**PRELIMINARY SURFICIAL GEOLOGIC MAP OF THE  
MESABI-VERMILION IRON RANGE AREA  
NORTHEASTERN MINNESOTA**

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MISCELLANEOUS GEOLOGIC INVESTIGATIONS  
MAP I-403



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