

ICE STAGNATION LANDFORMS IN EASTERN
UPPER MICHIGAN: A REINTERPRETATION OF THE MUNISING MORaine

by

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ABSTRACT

The purpose of the study was to examine a small portion of the Munising "moraine" between Munising and Grand Marais, Michigan. Field evidence, surficial sediments, and topographic maps indicate that the Munising "moraine" in the study area is not a moraine formed by an active ice margin, but is rather a series of heads of outwash and other stagnation landforms formed in association with stagnant ice. Field evidence suggests that stagnation-zone retreat took place and several successive and related morphosequences are identified. Drift thickness appears to be "thick" rather than "thin" and, along with other field evidence, brings into question several key points in the newly proposed "Grand Marais moraine" scenario.