

Data repository for “Primary red bed magnetization revealed by fluvial intraclasts”

Study location

The study site in the Freda Formation along the Bad River is within the Ashland Syncline (Fig. 1A,B). There is a lack of mineralization in the Nonesuch Formation in the Ashland Syncline in contrast with localities ~90 km to the east in the White Pine region (Stewart and Mauk, 2017). These outcrop exposures along the Bad River are very fresh as the soil-rock interface dates to retreat from the last glacial maximum which is constrained locally to be 13.2 ± 0.4 thousand years ago based on nearby ^{10}Be exposure dates (Ullman et al., 2015). The outcrops have been subsequently been exposed through ongoing river incision (Fig. 1C).

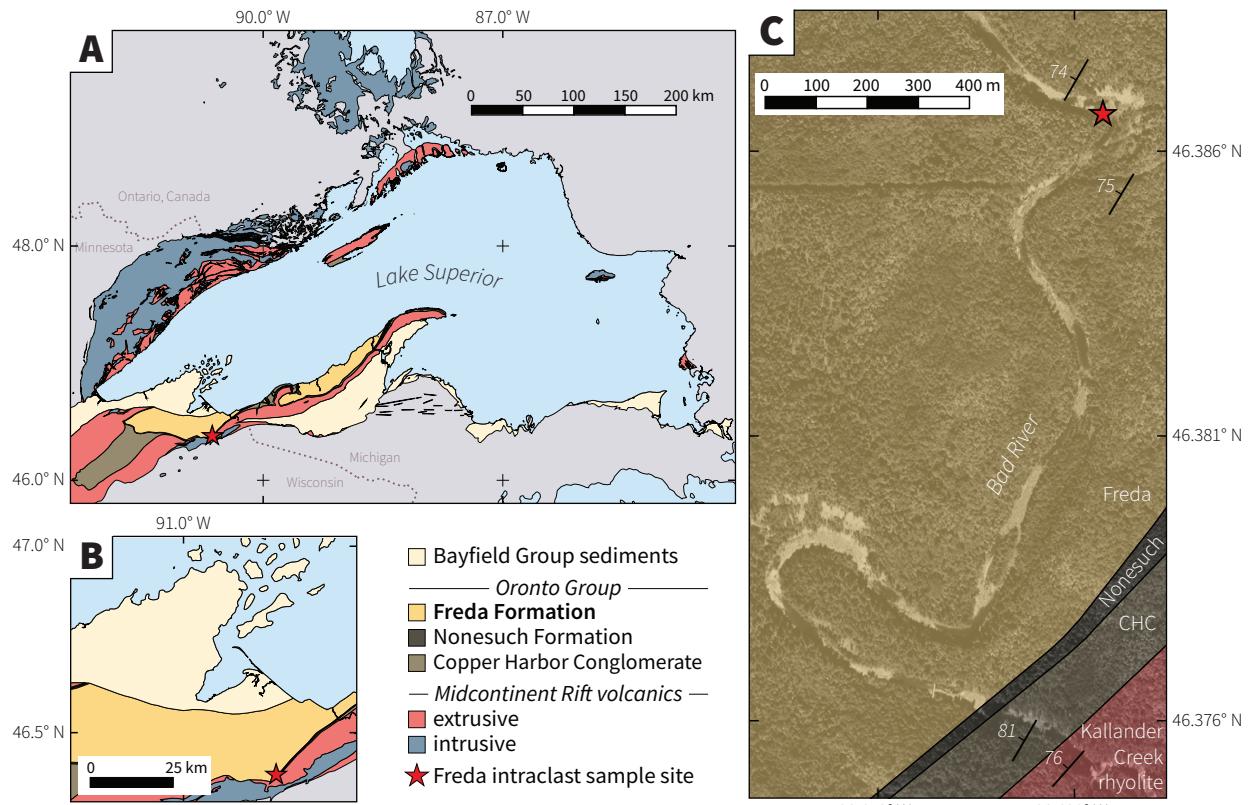


Figure 1. Geological maps of the study region highlighting bedrock units associated with the Midcontinent Rift. The study location is shown as a red star on the Lake Superior region overview map (A), the zoom-in map of the eastern Ashland syncline (B) and the Bad River for which the geology is overlaid on a satellite image (Esri World Imagery). CHC stands for Copper Harbor Conglomerate. The geology has been modified from the Ontario Geological Survey (2011), Nicholson et al. (2004), and Jirsa et al. (2011).

References

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