



**Figure 1** – A) Regional map of the Manitoba Escarpment (thick black lines) showing location of 2020-21 study area (red rectangle labelled B). B) local map of study area near Dauphin, MB with Skane’s Crossing locality represented by yellow star labelled C. C) image of measured and sampled outcrop approximately 100 m upstream from Skane’s Crossing showing sharp, unconformable contact (green dashed line) between the uppermost limestone beds of the Assiniboine Member, the Marco Calcarenite Beds, and the overlying Morden Member with an erosional upper contact (white line). D) stratigraphic section of the outcrop in C showing one of three \*sampled horizons from the whole formation for microvertebrate fossil analysis and the \*\*U-Pb radiometric age<sup>3</sup> (in millions of years) reported for the outcrop. Abbreviations: cities) B- Brandon, D- Dauphin, HB- Hudson Bay, SR- Swan River; and grain sizes) cl- clay, s- silt, vf- very fine, f- fine, m- medium, c- coarse.