

1 **List of Figures**

2 **Fig. 1** Location map and unmanned aerial vehicle (UAV) photographs showing two experimental sites in Indian Head, Saskatchewan,  
3 Canada. White dots with black circles indicate the position of shallow groundwater monitoring wells. Capital letters along straight  
4 lines indicate transects of soil and groundwater sampling.

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6 **Fig. 2** Temporal variation of precipitation, atmospheric temperature, depth to the groundwater table (GWT), groundwater electrical  
7 conductivity ( $EC_{gw}$ ) and soil electrical conductivity ( $EC_{soil}$ ) under three different land-use practices (i.e., AC = annual crop, PA =  
8 pasture, SRW = short rotation willow) during two consecutive growing seasons of 2014 and 2015 from A) site A, B) site B.

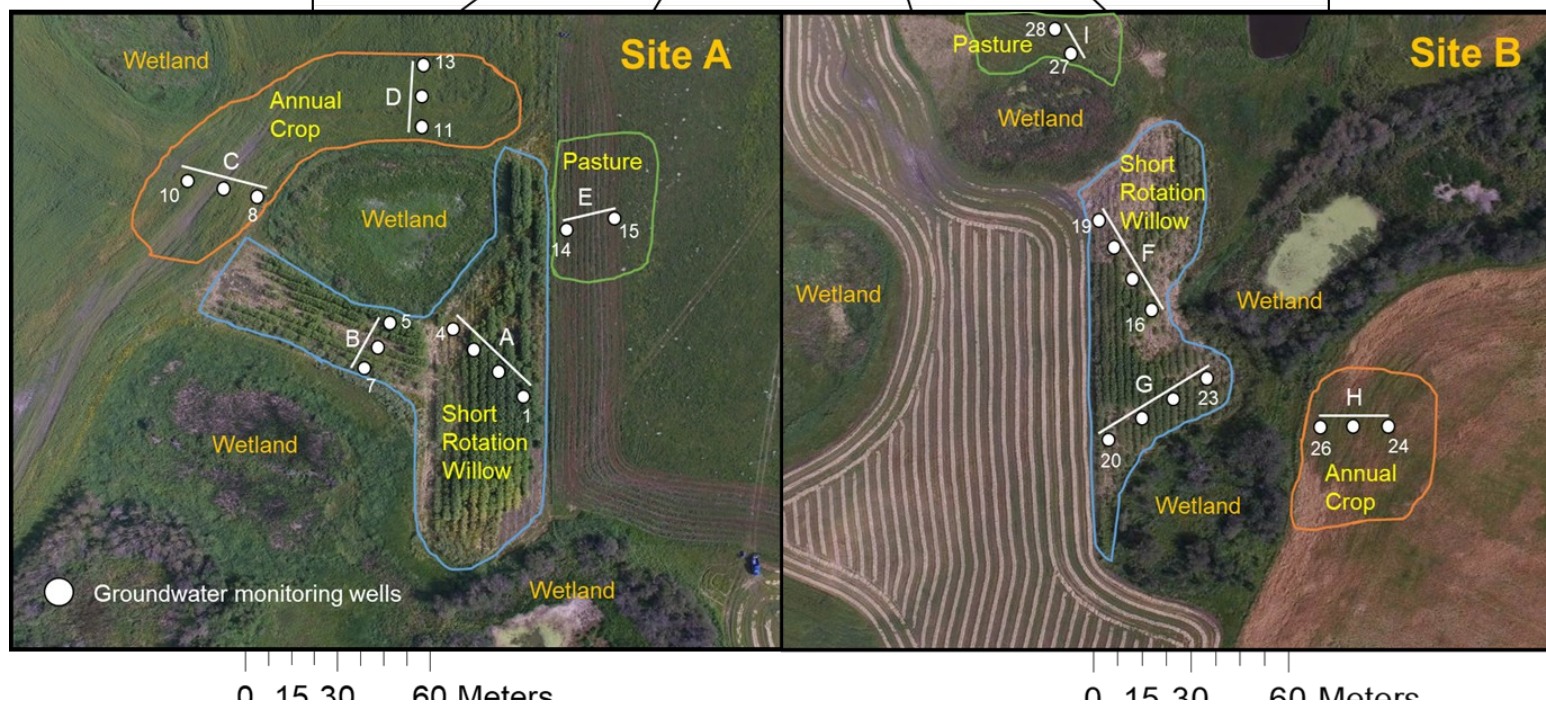
9

10 **Fig. 3** Spatial distribution of apparent soil electrical conductivity ( $EC_a$ ) measured at 1m depth by EM38 at the end of the growing  
11 seasons of 2014 and 2015 from annual crop (AC), pasture (PA), and short rotation willow (SRW) land-use practices from A) site A,  
12 and B) site B.

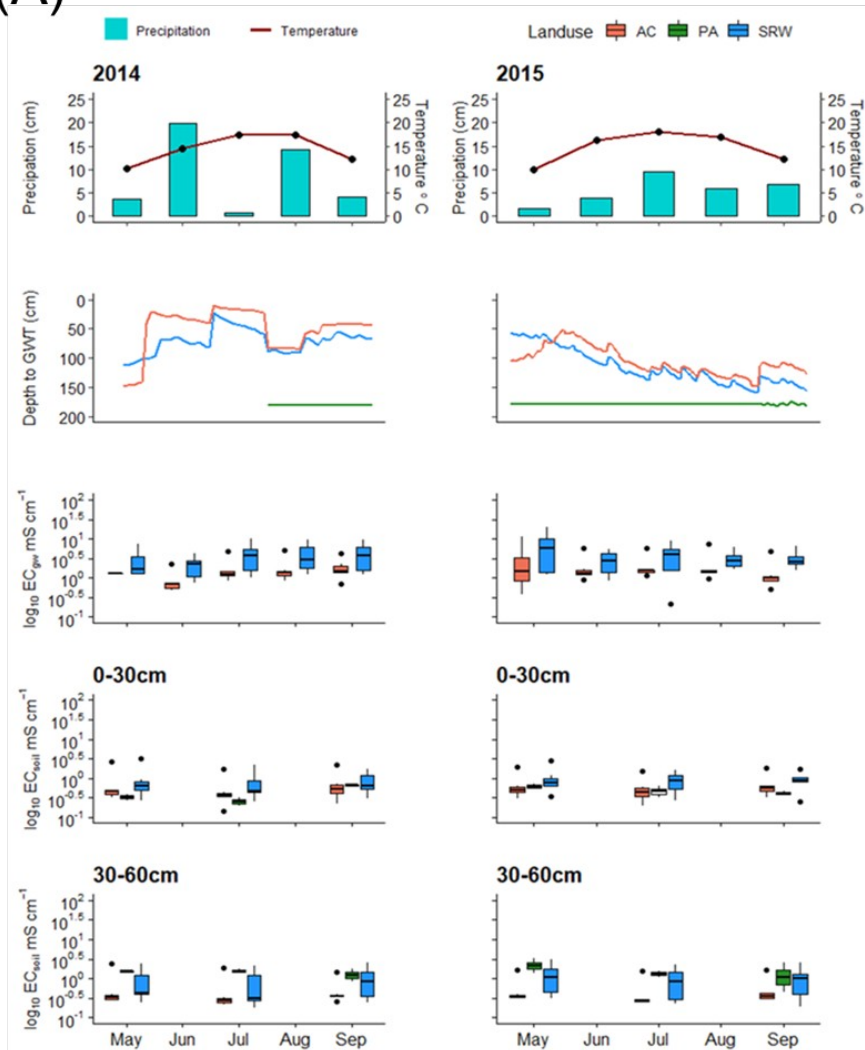
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# (A) Site A



# (B) Site B

