## GPS velocity from the Pine Island Glacier drainage area

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Pine Island Glacier is one of the glaciers draining the marine West Antarctic Ice Sheet and is believed to be particularly vulnerable to change. A series of velocity observations derived from remote sensing show that the glacier continues to accelerate. Here we present results from GPS observations at a location near the main glacier. The data spans two summer seasons with interruptions in winter due to power problems. A time series analysis show that there is a small seasonal variation in flow. Since surface melting is not believed to be a factor here, the variation could be related to previously suggested seasonal variations in melting near the grounding line, which also appears to be manifested in the sub-iceshelf topography.