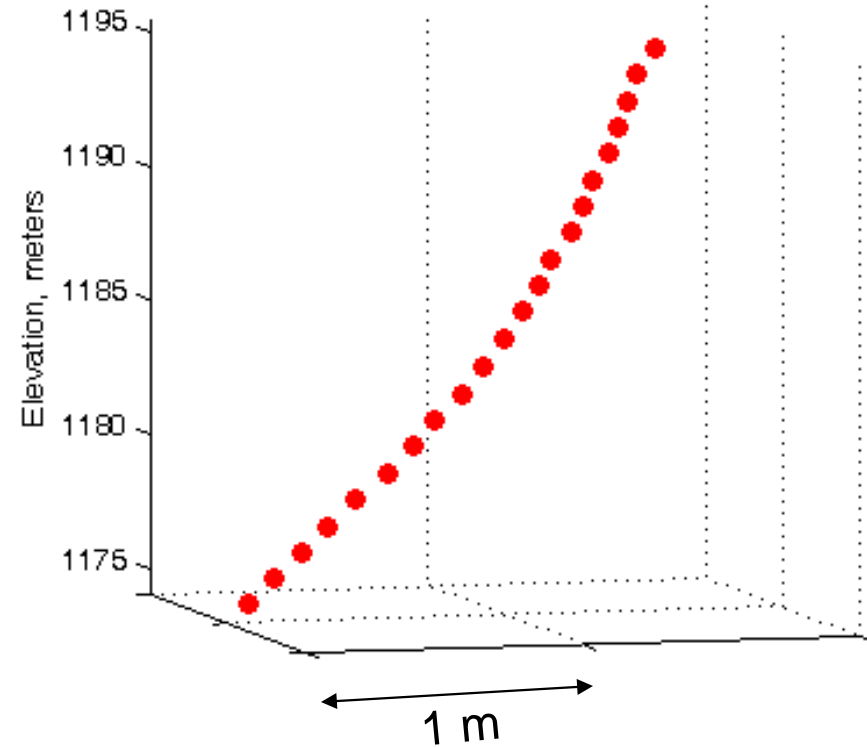
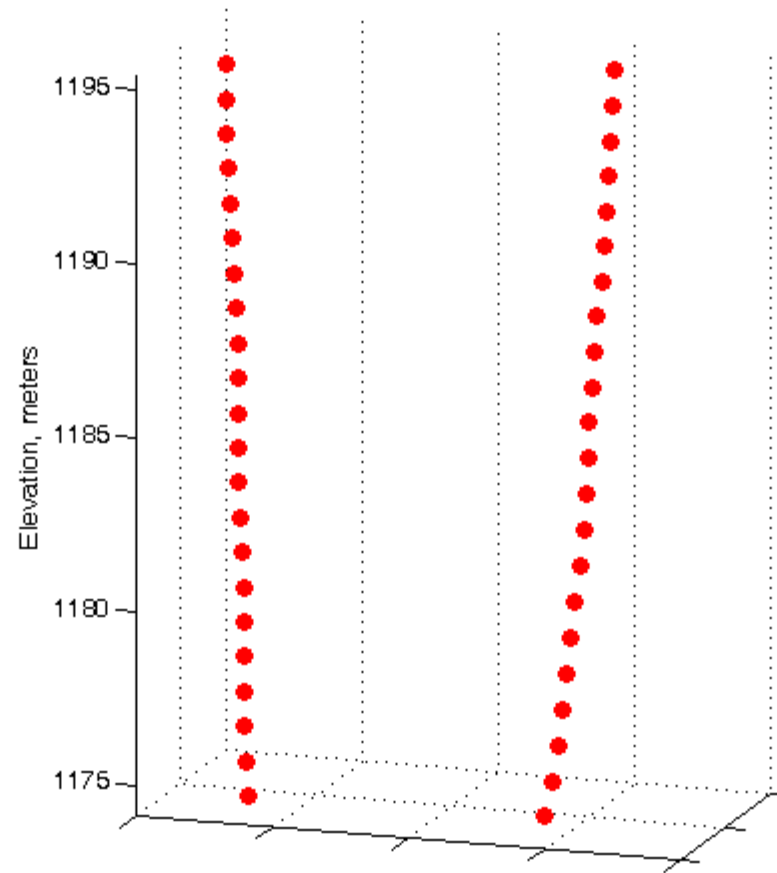


Borehole Inclinometry at Storglaciären, Sweden:
*Custom instrument made by Geokon, Inc. for Iowa State University Geology
(Iverson, Moore)*



*Sample data from BH9 second survey
August 2008*





Comparison of initial (Aug 2007) and final (Aug 2008) borehole shape for BH9. Uppermost data point in each profile is known from a total-station survey of the top of the borehole. Horizontal-axis tick marks are at 2m intervals. Because the glacier in this region is subfreezing at the base, we expected to see no displacement at the base of the borehole. However, from the inclinometry data we infer that even if the glacier is frozen to the substrate, some motion is occurring at depth by deformation of the till substrate (as much as 77% of the motion of the ice surface over the intervening year).