

Deformation, Strength and Tectonic Evolution of Basal Ice in Taylor Glacier, Antarctica

Sean Fitzsimons¹, Denis Samyn², and Regi Lorrain³

Key Points:

- Observations made in tunnels excavated in Taylor Glacier reveal a 4 m-thick basal ice sequence
- Sliding or highly localized deformation in thin zones occurs at structural interfaces within the basal ice
- About 60% of glacier surface velocity can be attributed to deformation within the 4.5 m-thick sequence of basal ice

Supporting Information:

Supporting Information may be found in the online version of this article.

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Abstract Observation and measurements of ice structure and deformation made in tunnels excavated into the margin of Taylor Glacier, a polythermal glacier in the McMurdo Dry Valleys of Antarctica, reveal a complex, rapidly deforming basal ice sequence. Displacement measurements in the basal ice, which is at a temperature of -18°C , together with the occurrence of cavities and slickensides, suggest that sliding or rapid deformation in thin zones of high shear occurs at structural discontinuities within the basal zone. Strain measurements show that the highest strain rates occur in ice with average debris concentrations of 26% followed by ice with debris concentrations of around 12%. The lowest strain rates occur in clean bubbly ice that has very low debris concentrations ($<0.02\%$). Deformation within the basal ice sequence is dominated by simple shear but disrupted by folding which results in shortening of the debris-bearing ice followed by attenuation of the folds due to progressive simple shear which generates predominantly laminar basal ice structures. About 60% of glacier surface velocity can be attributed to deformation within the 4.5 m-thick sequence of basal ice that was monitored for this study, and 15% of motion can be attributed to sliding or very localized shear. The combination of high debris concentrations and high strain rates in the debris-bearing ice results in high rates of abrasion and the production of striated and faceted clasts typical of temperate glaciers, even though the basal ice is at a temperature of -18°C .

Plain Language Summary Measurements made in tunnels excavated in Taylor Glacier, Antarctica, have revealed a thick sequence of ice and debris layers deforming at different rates. Although the ice is at a temperature of -18°C , our measurements suggest that the ice is sliding or moving by rapid deformation in thin bands. About 60% of glacier surface velocity can be attributed to deformation within the 4.5 m-thick sequence of basal ice that was monitored for this study, and 15% of motion can be attributed to sliding or localized deformation. High debris concentrations together with high deformation rates result in high rates of abrasion and the production of high volumes of silt and heavily striated particles typical of temperate glaciers even though the basal ice is at a temperature of -18°C .

1. Introduction

The processes that occur at the beds of glaciers within a few meters of the contact between ice and the glacier substrate are fundamental controls of glacier behavior. Deformation of ice and debris close to this zone regulates the nature of motion at the bed, the rate of deformation experienced by ice and the deformation and entrainment of subglacial sediment (Clarke, 2005; Hubbard, 2006; Iverson, 2010). One of the products of glacier-substrate interactions is basal ice, which can be defined as ice close to the bed of glaciers that has distinctive physical, chemical and mechanical properties (Hubbard & Sharp, 1989; Hubbard et al., 2009). These properties are imparted by interactions between glacier ice and the substrate. The processes that occur within basal ice and at glacier beds underpin the large-scale behavior of glaciers and control the geological processes at the ice-substrate interface. These processes also determine the geological imprint of glaciation on the Earth's surface (Alley et al., 1997; Boulton, 2006; Iverson, 2010).

Debris and solutes within basal ice alter the rheology of materials close to the bed, which has direct implications for glacier behavior and glacial geological processes. For example, a cold-based glacier with easily deformable basal ice will have higher surface velocities and a flatter surface profile than a cold-based glacier without easily deformable ice (Perrin et al., 2014). Both experimental and field-based research on the behavior of ice-debris mixtures suggests that we do not yet understand the constitutive properties of debris-ice mixtures

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