

AG-325 Glaciology: recommended reading

The course text book:

Benn, D. and Evans, D.J., 2014. *Glaciers and glaciation*. Routledge.

Key journal papers:

Irvine-Fynn, T.D.L., Hodson, A.J., Moorman, B.J., Vatne, G. and Hubbard, A.L. 2011. Polythermal glacier hydrology: a review. *Reviews of Geophysics*, 49, RG4002. doi:10.1029/2010RG000350

Luckman, A., Benn, D.I., Cottier, F., Bevan, S., Nilsen, F. and Inall, M., 2015. Calving rates at tidewater glaciers vary strongly with ocean temperature. *Nature communications*, 6(1), 1-7.

Mansell, D., Luckman, A. and Murray, T., 2012. Dynamics of tidewater surge-type glaciers in northwest Svalbard. *Journal of Glaciology*, 58(207), 110-118.

Schuler, T.V., Kohler, J., Elagina, N., Hagen, J.O.M., Hodson, A.J., Jania, J.A., Kääb, A.M., Luks, B., Małeckki, J., Moholdt, G. and Pohjola, V.A., 2020. Reconciling Svalbard glacier mass balance. *Frontiers in Earth Science*, 8, 156.

Sevestre, H., Benn, D.I., Hulton, N.R. and Bælum, K., 2015. Thermal structure of Svalbard glaciers and implications for thermal switch models of glacier surging. *Journal of Geophysical Research: Earth Surface*, 120(10), 2220-2236.

van Pelt, W.J., Pohjola, V.A. and Reijmer, C.H., 2016. The changing impact of snow conditions and refreezing on the mass balance of an idealized Svalbard glacier. *Frontiers in Earth Science*, 4, 102.

Wohlleben, T., Sharp, M. and Bush, A., 2009. Factors influencing the basal temperatures of a High Arctic polythermal glacier. *Annals of Glaciology*, 50(52), 9-16.