**ESS 431 PRINCIPLES OF GLACIOLOGY**

**ESS 505 THE CRYOSPHERE**

**Lecture 17 – Sea Ice II:** Dynamics and thermodynamics

*Due Wednesday, November 28 2018, at start of class*

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| Marshall, S., 2012. *The Cryosphere.* Chapter 5.  Maykut, G., 1985: An Introduction to Ice in the Polar Oceans. Report APL-UW 8510. p. 78–92. |

1. Why is the net longwave radiation balance over sea ice almost always negative?
2. Are sensible and latent heat fluxes important to the energy balance of sea ice? Why / why not?
3. How do changes in cloudiness affect the energy balance for sea ice?