

ESS 431 PRINCIPLES OF GLACIOLOGY
ESS 505 THE CRYOSPHERE

Lecture 15 – Sea Ice I: Formation, structure, and relation to the climate

Due Wednesday, November 29 2017, at start of class

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?