

1050-37-49

Esther R. Widiasih* (widiasih@math.umn.edu), 127 Vincent Hall, 206 Church St. S.E.,
Minneapolis, MN 55455. *How Ice Line Moves: Revisiting Budyko's Energy Balance Model.*

An Energy Balance Model (EBM) is an example of a conceptual climate model, constructed to build an understanding of the ice albedo feedback mechanism. In this talk, I will start with an EBM, originated by Mihail Budyko in 1969, and formulated by Ka Kit Tung in 2007. Then I will propose a new formulation which includes a mechanism admitting the movement of the ice line and which leads to new results. (Received February 21, 2009)