

Uncertainties in steady-state and short-term responses of Greenland ice sheet simulation

SAITO, Fuyuki^{1*}, ABE-OUCHI, Ayako², Kunio TAKAHASHI¹

¹Japan Agency for Marine-Earth Science and Technology, ²AORI, Univ. of Tokyo

We present a series of numerical experiments of Greenland ice sheet to global warming and uniform warming using Ice sheet model for Integrated Earth system Studies (IcIES) to describe the model characteristics and its sensitivity.

Various uncertainties in the model result due to several factors such as parameterization schemes (physical aspects) as well as numerical aspects in the model are discussed.

Keywords: Greenland ice sheet, Ice sheet model