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ESTIMATION OF THE ARCTIC SEA THICKNESS USING THE SATELLITE MICROWAVE RADIOMETER AMSR2

Kazutaka Tateyama (*Kitami Institute of Technology, Japan*)

Hiroyuki Enomoto (*National Institute of Polar Research, Japan*)

Yasuhiro Tanaka (*Graduate of Kitami Institute of Technology, Japan*)

Seita Hoshino (*Graduate of Kitami Institute of Technology, Japan*)

Koji Shimada (*Tokyo University of Marine Science and Technology, Japan*)

Hajime Yamaguchi (*The University of Tokyo, Japan*)

tateyaka@mail.kitami-it.ac.jp

The ice extent of Arctic Ocean in recent year showed the record minimum ($3.5 \times 10^6 \text{ km}^2$) in September 16, 2012, which is much less than that of previous, record minimum in 2007 ($4.25 \times 10^6 \text{ km}^2$). The decreasing had rapidly begun to decrease in August 2012. Then it has restored to $5.0 \times 10^6 \text{ km}^2$ in 2013 and 2014 [Fig.1]

Since 2009, we participated in Joint Ocean and Ice Study (JOIS) and observed sea ice condition at the Arctic Ocean. JOIS is an important contribution from Fisheries and Oceans Canada to international Arctic climate research programs. Primarily, it involves the collaboration of Fisheries and Oceans Canada researchers with colleagues in the USA from Woods Hole Oceanographic Institution (WHOI).

