A long term monitoring of water cycle in the Mongolian plateau

Ichiro Kaihotsu, Hideyuki Fujii, Dambaravjaa Oyunbaatar, Toshio Koike, Tsutomu Yamanaka, Masahiro Hirata, Kazuaki Shiraishi

1 Hiroshima University, 2 JAXA, 3 IMH, 4 The University of Tokyo, 5 The University of Tsukuba, 6 Obihiro University of Agriculture and Ve, 7 Hiroshima University

We have been observing continuously soil moisture, vegetation and fundamental hydrological elements at several points in the study area in the Mongolian plateau since 2000. At the same time, AMSR-E has been observing daily soil moisture over Mongolia since 2002. We have been obtaining interesting results of water cycle change analyzing the data of the in situ and satellite observations. We will discuss the observation results, recent results and future activities.

Keywords: soil moisture, vegetation, remote sensing, AMSR-E, AWS, ASSH