**Study of the target selection methods for AMV derivation of Geo-KOMPSAT 2A**

Eunhee Lee , Tae-Myung Kim, Sung-Rae Jung, Jae-Gwang Won

NMSC/KMA

Abstract

The second geostationary meteorological satellite (Geo-KOMPSAT 2A, here after **GK2A**) of Korea will launch in the end of 2017. The AMI, flown on the GK2A will have sixteen spectral bands, compared to five on the current COMS imager, and will provide three times more spectral information, four times the spatial resolution, and more than four times faster temporal coverage than the current system. Therefore, the new meteorological data processing system for the AMI will be needed to convert raw instrument data to calibrated radiance and derived geophysical parameters (atmosphere, land, ocean, and space weather).

The Atmospheric Motion Vectors (AMVs) extraction scheme will be developed in preparation for GK2A retrieves the AMVs in a generally similar fashion to the present scheme which was developed for GOES-R and MTG satellite. First of all, the optimal conditions of target selection and tracking for derivation of AMVs using AMI data have been studied in NMSC/KMA. The preliminary results will be announced in the 12th IWW.