**Current status of COMS AMV in NMSC/KMA**

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COMS has been generating Atmospheric Motion Vector (here after AMV) at every hour with successive images of 15 minute intervals, since 1 April 2011 when it started to operate. KMA have applied operationally the COMS hourly AMV to a 4d-var data assimilation system since December 2011.

We are using target box 24x24 for COMS AMV estimation in operation but compared COMS AMVs derived from different two target boxes, 24x24 and 16x16, respectively. And we found the difference in AMV height, vector magnitude, vector number and quality etc. in terms of statistical results. We think that these results need to be analysed in terms of algorithm and through a plenty of case studies to know the causes of these differences.

We also compared our operational COMS AMV with one from HRW developed by NWCSAF, one from nested tracking method developed by CIMSS and one from Cross Correlation Contribution developed by EUMETSAT.

We validated COMS AMV with full resolution radiosonde wind data and compared these results with one from original radiosonde wind data at several standard pressure levels.

The presentation will introduce the some activities of KMA for COMS AMV.