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WCC-SF6 activities under the WMO/GAW Programme

Haeyoung Lee, Youngsan Park, Sang-Boom Ryoo, Jae-Cheon Choi, and Seong-Woon Noh
Korea Meteorological Administration/National Institute of Meteorological Sciences

WMO/GAW Programme encouraged World Calibration Centre (WCC) to help improve data quality and homogenize data from different stations and networks. The Korea Meteorological Administration (KMA) has played a role as the WCC for SF6 (WCC-SF6) since 2012 under the MoU with the WMO. The main functions are to a) assist WMO members operating GAW station to link their SF6 observations to the WMO reference scale through comparisons with standards calibrated against CCL; b) assist Science Advisory Group (SAG) on Greenhouse Gases in the development of the quality control procedures required to support the quality assurance of SF6 measurement and ensure the traceability to WMO scale; c) maintain laboratory and transfer SF6 gas standards that are traceable to WMO scale; d) perform regular calibrations and inter-comparison campaign involving all GAW stations and labs; e) assist in provision of training and long-term technical help for the stations; f) and make public its involvement in the WMO GAW Programme.
In this regard, WCC-SF6 has organized and implemented inter-comparison experiments with CCL (Central Calibration Laboratory, NOAA/ESRL) biennially since 2013 and with 12 labs in Europe and Asia-Pacific region from 2016 to 2017. We expanded this inter-comparison experiment at GAW stations through the audits. So far we have conducted the audits at 3 Global GAW stations from 2016 to 2018. In this presentation, we will show the results from those comparison experiments. And also relevant WCC-SF6 activities will be introduced such as Asia-Pacific GAW workshop on Greenhouse gases and Training/Education Course which are mainly targeting on the SF6 monitoring stations or potential monitoring stations.