

The result of the first SF₆ inter-comparison Experiment (SICE) 2016-2017

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One of main activities of World Calibration Centre for SF₆ (WCC-SF₆) is to assist WMO members operating GAW station to link their SF₆ observations to the WMO reference scale through comparisons with standards calibrated against CCL (Central Calibration Laboratory for SF₆, NOAA/ESRL) in the GAW quality assurance system (WMO GAW no 228). According to a memorandum of understanding (MoU) between World Meteorological Organization (WMO) and Korea Meteorological Administration (KMA), which was designated as WCC-SF₆, the first SF₆ inter-comparison Experiment had been implemented from 2016 to 2017. The 12 laboratories participated this activity and three of them had their own standard scale while the others used WMO scale (NOAA scale). There were two circuits, which consist with 8 labs in Europe and 3 labs in Asia-Pacific region, and CCL contributed to each circuit as a participant. In this presentation, the result of the first SF₆ inter-comparison experiment will be summarized.

And also, WCC-SF₆ has an inter-comparison with CCL biennially to confirm the differences between two labs. We will also present last results in 2013, 2015 and 2017 respectively in this presentation.

References

WMO/GAW, 2017, WMO Global Atmosphere Watch (GAW) Implementation Plan: 2016-2023, GAW report No.228