1. WCC Activity at JMA (CH₄)

Since Apr. 2001, JMA has carried out reference gases inter-comparisons as WCC for CH₄ in Asia and the South-West Pacific (Figure 1). In these inter-comparisons, two reference cylinders with different CH₄ mole fractions were circulated to ensure inter-comparability of CH₄ measurements among 13 laboratories (Table 1). These results are reported to WMO/GAW, and are also published in the JMA/WCC web site to open their detailed information (http://ds.data.jma.go.jp/gmd/wcc/wcc.html).

2. What’s the iceGGO Project

In harmony with the WMO/BIPM in the inter-national community, JMA and other observation laboratories in Japan have established a national alliance with NMIJ to compare standard gas scales each other. According to this alliance, we started round-robin experiments named as iceGGO (Inter-Comparison Experiments for Greenhouse Gases Observation) since 2012.

3. The result of iceGGO-3 (CO₂)


Table 3. Overviews of two experiments conducted as iceGGO.

Table 4. The standard gas scales and instruments used for 6 laboratories in the iceGGO-3.

Table 5. The standard gas scales and instruments used for 6 laboratories in the iceGGO-4.

4. The result of iceGGO-4 (CO)