



**GAW World Calibration Centre (WCC) for Methane  
and  
Quality Assurance/Science Activity Centre (QA/SAC)  
in Asia and the South-West Pacific**



**Methane Reference Gas Intercomparison for Asia from 2011 to 2012  
Technical Details on Laboratory Measurements**

**China Meteorological Administration (CMA)  
Measurement at Mt. Waliguan**

*1. Information on contributors*

- (1) Contributors: Dr. Zhou Lingxi and colleagues
- (2) Organization: China Meteorological Administration, China

*2. Information on instrument*

- (1) Analytical method: Cavity ring down spectroscopy (CRDS)
- (2) Manufacturer: Picarro
- (3) Model: G1301

*3. Information on sampling*

- (1) Sampling method: Continuous
- (2) Carrier gas: no carrier gas
- (3) Flow rate: <400 ml/min

*4. Information on measuring*

- (1) Response time: about 5 seconds
- (2) One measurement: 6 min continuous sampling (discard first 3 minutes data)/ per measurement
- (3) Concentrations: average values of the last 3 minutes data.

*5. Information on standard gas*

- (1) Number of standard gases: 2
- (2) Concentration of standard gases: 1939.9 and 1792.5 ppb
- (3) Scale: NOAA04 Scale CH<sub>4</sub>-in-air