Nanjing\_CO2\_CH4\_H2O\_20100602-20110430.doc

(Update November 16, 2016)

0) Fair use policy: Kindly inform the appropriate Principal Investigators of how you are using site data and of any publication plans. If the Principal Investigators feel that they should be acknowledged or offered participation as authors, they will let you know and we assume that an agreement on such matters will be reached prior to publishing and/or use of the data for publication. If your work directly competes with the Principal Investigator's analysis they may ask that they have the opportunity to submit a manuscript before you submit the one that uses their data. In addition, when publishing, please acknowledge the agency that supported the research.

1) Contact info: xuhui.lee@yale.edu, phone 203-432-6271, fax 203-432-5023

wei.xiao@nuist.edu.cn, phone 86-15050575821

wangw@nuist.edu.cn, phone 86-15195915526

2) The mixing ratio of atmospheric CO2 and CH4 was measured continuously by a gas analyzer based on wavelength-scanned cavity ring-down spectroscopy (model G1301, Picarro, Inc, Sunnyvale, California) in campus of Nanjing University of Information Science & Technology (32°12′ N, 118°43′ E), Nanjing, Jiangsu, China from June 2, 2010 to April 30, 2011. Details on the observation are given by Shen et al. 2014, available at http://yncenter.sites.yale.edu/publications

3) Each day have 48 records. Missing values are denoted by -9999.

4) Relevant references:

[1] Shen S, D Yang, W Xiao, S Liu, X Lee (2014) Constraining anthropogenic CH4 emission in Nanjing and the Yangtze River Delta, China using atmospheric CO2 and CH4 mixing ratios. Advances in Atmospheric Sciences 31: 1343–1352.

5) Content and format of header records:

Sheet Nanjing\_CO2\_CH4\_H2O\_2010-2011

(:,1): YEAR, Sampling year

(:,2): DOY, Day of year

(:,3): CO2, molar ratio of CO2 to dry air, expressed in ppm

(:,4): CH4, molar ratio of CH4 to dry air, expressed in ppm

(:,5): H2O, water vapor concentration, expressed in g kg-1