



Studies of the Fog-water Chemical Characteristics in China

D.Y. Liu (1), Z.H. Li (1), F. Yang (2), Z. Bin (1), and J. Yang (1)

(1) School of Atmospheric Physics, Nanjing University of Information Science & Technology, Nanjing, China
(liuduanyang2001@126.com), (2) Huai An weather bureau of Jiangsu Province, Huai An 223001, China

Research of chemical characteristics of fog-water developed rapidly in China since 1980. Observation, sampling and analysis have been done in cities, on the alps and beside the sea-sides. Studies about the acidity of cloud-fog water and the source of acid fog at each place have been done. The basic characteristics of fog water chemical composition also been detected. In many composite fog observations, there explored the related factors of fog-water chemical characteristics as well as continuous fog-water collection, and studied the primary factors which affect the concentration of the fog water chemical composition. The paper presents the primary studies of fog-water chemical characteristics in China the last 30 years. Fog –water sampling and analysis have made marked progress. the cloud-fog water chemical composition and acidity were confirmed in many cities and mountain areas. Many efficacious works have been done about the source of chemical composition. The studies shown that the cloud-fog water in many of Chinese cities and mountain areas have been acidified. Fog-water in cities was polluted with high ion concentrations and jeopardize people's health. It's very urgent to control pollutant discharge, raise the vegetation plant cover rate, and improve ecological environment. The fog chemical research should be continue in-depth and development.