



# 中国科学院大气物理研究所 学术报告

## Impacts of BC Deposition and 3D Topography on Regional Climate Change

### 黑碳沉降和三维地形对区域气候变化的影响

**时间：2017年9月26日（周二），上午10点**

**地点：大气物理所科研楼303会议室**

**摘要：** Highlights of glacier retreat and snow albedo reduction are first presented, followed by a discussion on parameterization of BC deposition and absorption in snow and its impacts on precipitation and radiative forcing based on WRF-Chem (with Noah-MP LSM) simulations over the Tibetan Plateau. We then report on the importance of 3D radiative transfer over mountain-snow areas using CCSM (no chemistry) 10-year simulation results to understand winter-time snow albedo reduction over southern Tibet and the potential impact on Indian summer monsoon. Finally, we will briefly introduce our future work on this challenging research.



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