

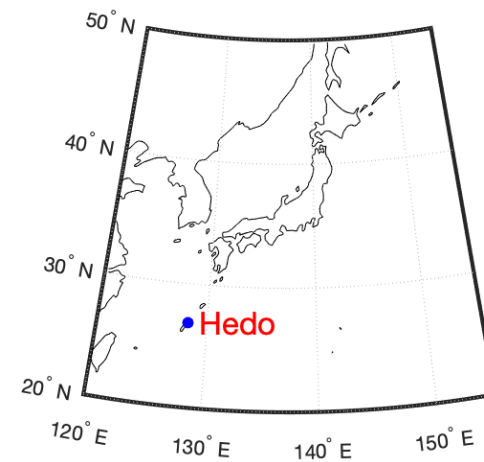
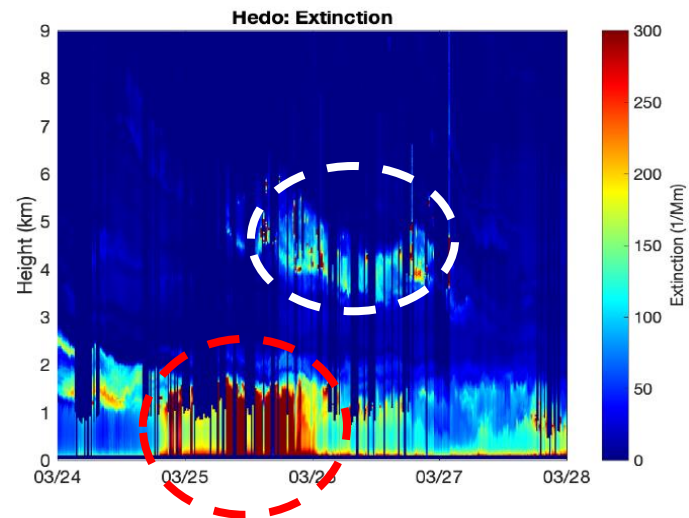
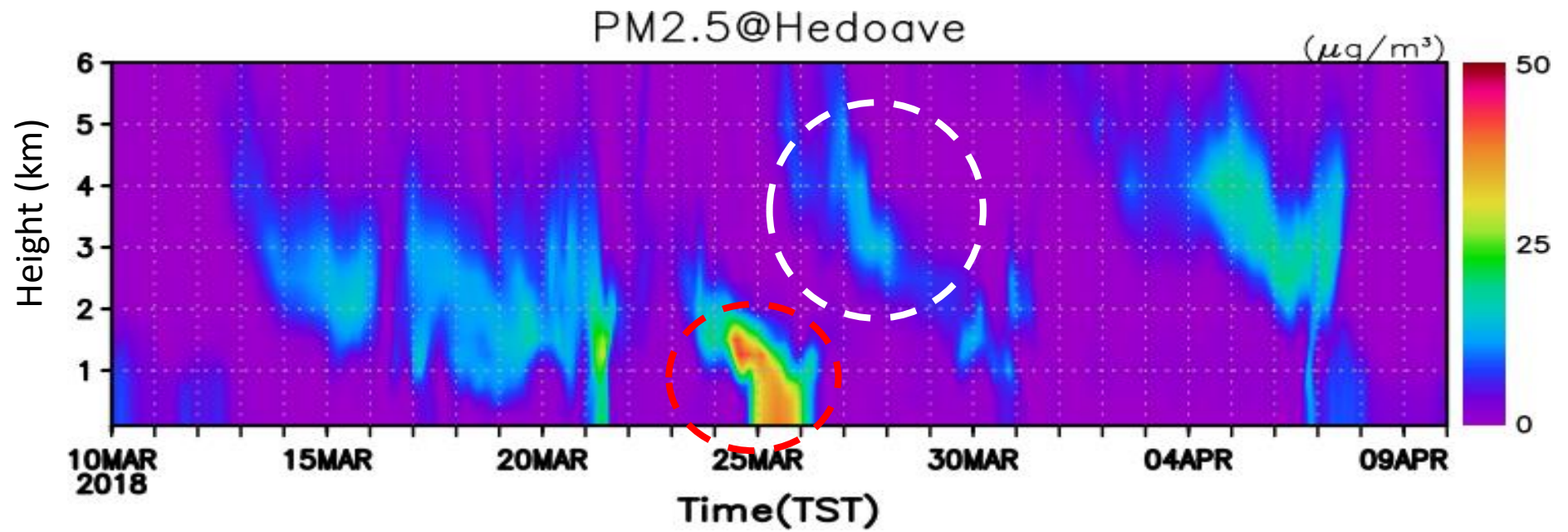
Modeling of Southeast Asia biomass burning pollutants to Taiwan during EMeRGe campaigns in Asia

Chuan-Yao Lin, Wan-Chin Chen, Yang-Fan Sheng, Win-Mei Chen, Yi-Yun Chien

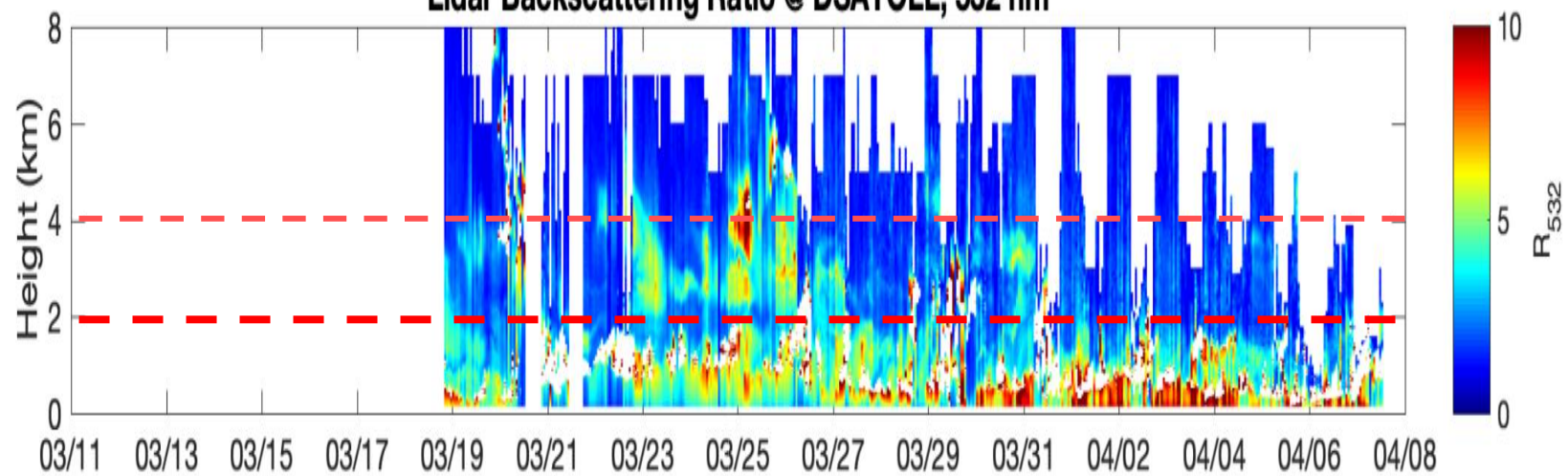
Research Center for Environmental Changes, Academia Sinica, Taiwan



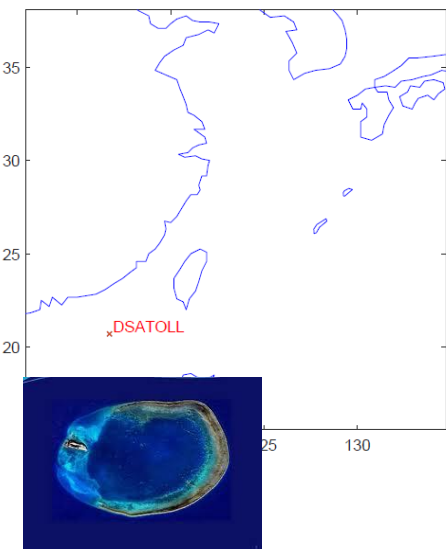
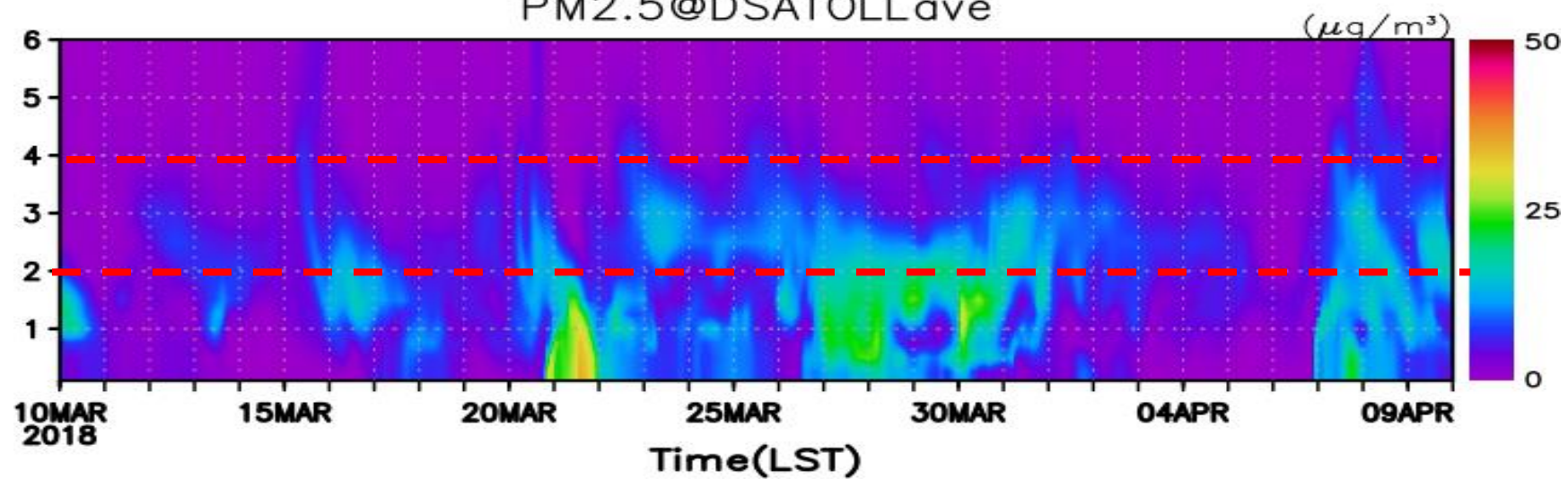
- In springtime happens to be the biomass burning season in Indochina. Under favor weather conditions, the products of biomass burning pollutants could be transported easily to Taiwan and even East Asia.
- To identify the transportation of biomass burning products, a high resolution (9 km) numerical study by Weather Research Forecast coupled with chemistry model (WRF-Chem) was performed during the campaigns. The simulation long-range transport of biomass burning aerosols have been examined by the Lidar measurements at Dongsha atoll and Hedo island. (Next two Pages)
- The difference in PM_{2.5} concentration simulated with and without biomass burning emission at Dongsha atoll and Hedo island (the last page).
- We will evaluate the contribution of biomass burning pollutants around Taiwan and even down to near surface (ongoing work)



Lidar Backscattering Ratio @ DSATOLL, 532 nm



PM2.5@DSATOLLave



The difference in PM2.5 concentration simulated with and without biomass burning emission in Indochina.

