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PM2.5 variation in Rudong, China and Fukue Island, Japan in spring 2010

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We carried out an intensive field campaign observing ozone and its precursors and chemical components/physical and optical parameters of aerosol particles at Rudong (32.26N, 121.37E), Jiangsu, China in May/June 2010. In this presentation, to investigate the PM2.5 mass concentration, their composition and correlation in both Rudong and Fukue Island(32.75N, 128.68E), we observed PM2.5 mass concentration using SHARP monitor and sampled PM2.5 on the quartz filter by high volume air sampler. PM2.5 total mass concentration is monitored every 1 min for both sites. At the Rudong site(May16-June23), 9 or 14-hours PM2.5 samples were collected on the quartz filters using High-volume(500L/min) sampler, while 22-hours PM2.5 samples were collected at the Fukue Island site(May18-25). In the end of May, high PM2.5 mass concentrations were observed in both Rudong and Fukue Island. We are going to discuss mass closure and correlation of the PM2.5 for Rudong and Fukue Island results.

Keywords: PM2.5, aerosol, composition, transportation, mass closure