



Fig.1 Comparison between observed O3 and simulated O3 at the top of Mount Tai in 2004 (40-120 as Julian date). An upper panel illustrates temporal variations for observation (black dots), simulated O3: non nest with 14 layers and 80 km spatial resolution (blue line); nested grid 1 with 19 layers and 80 km spatial resolution (red line); nested grid 2 with 19 layers and 23 km spatial resolution (pink line). Bottom two panels (right: all data and left: noon time only) show correlations between model and simulations: non nest with 14 layers and 80 km spatial resolution (blue); nested grid 1 with 19 layers and 80 km spatial resolution (red); nested grid 2 with 19 layers and 23 km spatial resolution (pink).