

Dear Dr. Liggio:

Please find below our itemized responses to the reviewer's comments. We have addressed the comments raised by both reviewers, and incorporated their comments / suggestions in the revised manuscript.

Thank you very much for your consideration.

Sincerely,

Xuejun Liu and Wen Xu

On behalf of all co-authors

Anonymous Referee #3

General comments

Air pollution in China, especially the North China, has drawn the world's attention in recent years. The Chinese government is capable of applying stringent and intensive emission control over a short period, during which an important event was held in Beijing or other major cities. This usually resulted in remarkably clean sky during the event. These manmade "control experiments" provide good opportunities to disentangle the complicated impacts of anthropogenic emissions and meteorological conditions on air quality. There have been quite a few published studies on the emission control periods of the 2008 Olympics, the 2014 APEC, and the 2015 Beijing Parade. This study distinguishes itself by analyzing wide spread monitoring sites both in Beijing and nation-wide(measurement network of NO₂and NH₃in Beijing and three NCP background sites is certainly a plus) and using a GEOS-Chem model to quantify the relative contributions of emission reduction and favorable meteorological conditions to air quality improvement. Generally, this manuscript provides useful observation datasets and insightful analyses on the emission-control policy. I recommend this manuscript to be accepted by ACP if the following concerns can be addressed.

Response: We thank the reviewer for the encouraging words and insightful comments. We believe that addressing the issues pointed out by the reviewer will considerably improve the manuscript. Please see our itemized responses below.

Major points:

1. At line 110, the authors stated that the previous studies did not systematically quantify the contribution of NH₃ from traffic sources to urban PM_{2.5} and implied at they could address this question through their NH₃ observations. However, they only reported the concentration levels of NH₃ and stopped at the conclusion that on-road traffic is an important source of NH₃ in urban Beijing. It has long been demonstrated that on-road vehicles are major NH₃ sources for roadside sites. It is also obvious that reducing on-road vehicles during the emission control period will reduce NH₃ concentrations measured at these sites. It will require more analyses to extend from NH₃ concentrations measured at a few sites to PM_{2.5} at the city scale. The authors brought up an important question about the linkage between NH₃ emission and PM_{2.5} (which is one key reason why we care about NH₃), but did not really answer that. The authors should have the resources for further analyses, as the GEOS-Chem model can readily link the NH₃ emissions to PM_{2.5}.

Response: Thank you for your comment. A main objective of this study is to quantify the changes in air quality during the 2015 Beijing Parade Period as evidenced by our field measurements. The GEOS-Chem model simulation (with fixed anthropogenic emissions during the period) was used to provide an estimate of the relative role of meteorology. We do not include a detailed model analysis, since that should be done as a separate study that requires extensive work on evaluation of the model emissions and chemical mechanism.

To address the comment, we have made the following revisions: 1) we changed in the sentence “the contribution of ammonia (NH₃) from traffic sources to urban PM_{2.5} pollution” to “the contribution of ammonia (NH₃) sources to urban PM_{2.5} pollution”; 2) we examined the impacts of NH₃ emissions on urban PM_{2.5} concentrations using GEOS-Chem model sensitivity simulations with perturbed anthropogenic NH₃ emissions in the Beijing-Tianjin-Hebei region. Linking NH₃ from traffic sources alone to PM_{2.5} concentrations is a challenging task in the model, as a proper estimate of traffic NH₃ emission inventory is lacking. We have added and presented the model results in Sect. 4.3, as summarized below in addressing the comment #3.

2. Another innovative aspect of this study is characterizing the nonlinear response of pollutants to emission reduction (lines 111-112). The magnitude and spatial pattern of emission reductions are very important quantities, but they were assumed in a fairly arbitrary way (line 224). I think these assumptions need to be justified. In Fig. 13, one may argue that the response could be linear if the emission reductions are uncertain (say what assumed to be 5% reduction is really 10%). Are these emission reductions also used in GEOS-Chem simulation?

Response: In the revised manuscript, we now remove this part (discussion of non-linear response to emission reduction; including Figure 13 and several sentences in Sect. 4.3). This revision does not change the structure of the paper. We agree that characterizing the nonlinear response of air pollutants to emission reduction based on field measurements may have considerable uncertainties, and we think a detailed model investigation of this feature is beyond the scope of this study (but could be done in a future study).

3. The third innovation is quantifying the relative roles of emission reduction and favorable meteorology in air quality improvement (lines 112-113). The conclusion about this topic was drawn from the GEOS-Chem simulation, but I found that there is very limited information about this vital part of the analysis. What were the simulation time period and spatial coverage? What anthropogenic emission inventories were used? How were the emissions reduced in the model when simulating the Parade blue period? How did the simulation results compare with the rich observation datasets presented in Section 3?

Response: We examined the relative roles of emission reduction and meteorology in Section 4.3 by first presenting a comprehensive analysis of the meteorological conditions (temperature, RH, wind patterns, and precipitations) before/during/after the Parade Blue period, and then providing a quantitative estimate using the GEOS-Chem model simulation. In the revised manuscript we have added the following text to more fully describe and discuss the GEOS-Chem simulation:

“To further diagnose the impacts of meteorology on the surface air quality, we

conducted a simulation using the nested GEOS-Chem atmospheric chemistry model driven by the GEOS-FP assimilated meteorological fields at $1/4^\circ \times 5/16^\circ$ horizontal resolution covering East Asia ($70^\circ\text{E}-140^\circ\text{E}$, $15^\circ\text{N}-55^\circ\text{N}$) (Zhang et al., 2015; 2016). Details of the model emissions and mechanisms have been described in Zhang et al. (2016), focusing on $\text{PM}_{2.5}$ concentrations in Beijing during the Asia-Pacific Economic Cooperation Summit (APEC; November 5-11) period. We used anthropogenic emissions from the Multi-Resolution Emission Inventory of China for the year 2010 (MEIC, 2015), except for NH_3 emissions that are taken from the Regional Emission in Asia (REAS-v2) inventory (Kurokawa et al., 2013) with an improved seasonality derived by Zhao et al. (2015)."

"We conducted a standard simulation with fixed anthropogenic emissions for the period of 1 August – 12 September 2015. By fixing anthropogenic emissions in the simulation, the model provides a quantitative estimate of the meteorological impacts alone before and during the Parade Blue period. For the pre-Parade period (1-19 August), the model simulated mean $\text{PM}_{2.5}$ concentration is $62 \mu\text{g m}^{-3}$ in Beijing, comparable to the measured values ($59 \mu\text{g m}^{-3}$), but simulated NH_3 concentrations are too low ($3 \mu\text{g m}^{-3}$ vs. measured values of $8.2\text{-}31.7 \mu\text{g m}^{-3}$), probably due to missing urban NH_3 sources and the coarse model resolution ($1/4^\circ \times 5/16^\circ$). Here we focus on the model simulated relative changes in pollutant concentrations before and during the Parade Blue period."

"We also conducted two sensitivity simulations ((1) with anthropogenic emissions of NH_3 reduced by 40% over Beijing and by 30% over Hebei and Tianjin; and (2) with all anthropogenic emissions including NH_3 , SO_2 , NO_x , CO , and primary aerosol reduced by 40% over Beijing and by 30% over Hebei and Tianjin) for the Parade Blue period (20 August-3 September 2015) to examine the responses of $\text{PM}_{2.5}$ concentrations to emission reductions. We find that the NH_3 emission reduction (by 40% over Beijing and by 30% over Hebei and Tianjin) could decrease the mean $\text{PM}_{2.5}$ concentration in Beijing by 12% for the period, compared with 31% simulated $\text{PM}_{2.5}$ reduction if all anthropogenic emissions were reduced by the same amount. This supports our findings on the effectiveness of emission controls during the Parade Blue

period as indicated in the measurements, and the high sensitivity of PM_{2.5} concentration in Beijing to NH₃ sources.”

Minor points:

1. Lines 91-92 and line 97: Is “North China” equivalent to the geographical extension of these six provinces or parts of them? The air mass and meteorology in parts of Inner Mongolia could be very different from the North China Plain.

Response: North China covers parts of these six provinces. According to the typical division of meteorological geographical areas in China, North China includes Beijing City, Tianjin City, the middle area of Inner Mongolia (i.e., Hohhot, Baotou, Ordos and Ulanqab Cities), Hebei, Shanxi, and Shandong provinces. To avoid misunderstanding, we deleted “North China” in line 90, and instead used “surrounding regions” and/or “emission control regions (excluding Beijing)” for related expressions throughout the entire revised manuscript.

2. Lines 139-141: Are these two sites (27 and 28) inside or outside the tunnel? NO₂ concentration at site 27 seems extremely high for ambient measurements (Fig. 2B). Is that because it is in the tunnel?

Response: Yes, sites 27 and 28 were located, respectively, inside and outside the tunnel. We have revised the sentence (lines 139-141) and now it reads: “Sites 27 and 28 are located, respectively, inside (100 m from the exit) and outside (30 m from the entrance) the Badaling Highway Tunnel (1091.2 m long), which has two traffic tunnels with one lane in each.”

The extremely high concentrations of NO₂ measured at site 27 were most likely due to enhanced NO₂ accumulation in the tunnel resulting from limited dispersion of pollutants. A similar phenomenon was also observed for NH₃ concentrations as reported by Chang et al. (2016).

3. Lines 201-202: Why was post-parade blue period not included in this dataset?

Response: We chose the pre-Parade Blue and Parade Blue periods for our comparison partly because the changes in concentrations of the pollutants between these two

periods can achieve the aims of the study. We now add the 24-h (daily) average concentrations of PM_{2.5}, PM₁₀, NO₂, SO₂ and CO during the post-Parade Blue period in the revised manuscript, as shown in improved Figure 3 and also summarized in Tables S2-S6 in the Supplement. Accordingly, additional information during the post-Parade Blue period was also added in order to further improve the manuscript, including Air Quality Index (AQI), ratios of CO/SO₂, and PM_{2.5}/CO (Figure 4), meteorological parameters (wind speed, wind direction and relative humidity) (Figure 6), sulfur oxidation ratio (SOR) and nitrogen oxidation ratio (NOR) (Figure S4 of the Supplement), correlations between PM_{2.5} and gaseous pollutants (e.g. CO, NO₂, SO₂) (Figure S2 of the Supplement), and correlations between NH₄⁺, SO₄²⁻, and their sum (Figure S5 of the Supplement).

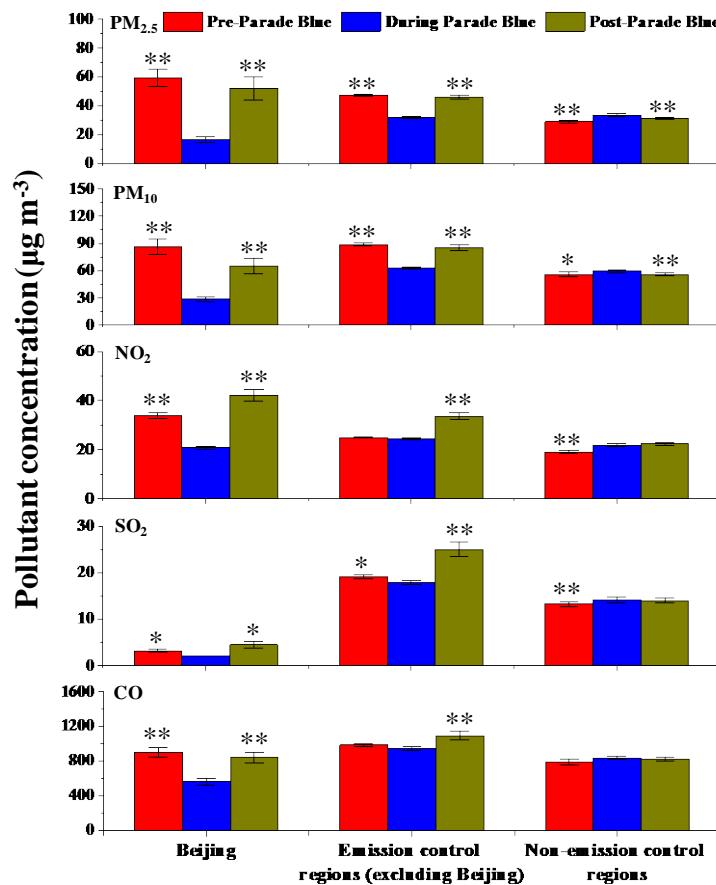


Figure 3. Comparison of PM_{2.5}, PM₁₀, NO₂, SO₂ and CO concentrations between non-Parade Blue periods (the pre- and post-Parade Blue periods) and Parade Blue period at Beijing, cities in emission control regions (excluding Beijing) and other cities in non-emission control regions (one asterisk on bars denotes significant difference at $p<0.05$, two asterisks on bars denote significant difference at $p<0.01$).

4. Lines 258-260: It will be less confusing if the acronyms (SWR, SOI, SOB) are spelled out.

Response: We accept this suggestion and have spelled out the acronyms (SWR, SOI, SOB) in the revised paper.

5. Line 289: Please define WSI.

Response: **WSI represents water-soluble ions.** We have defined WSI in Line 118 where it first appears.

6. Line 441-442: Beijing actually has large agricultural sources, and its dominant NH₃ sources are still agriculture, at least according to the inventories. To argue that traffic is indeed an important NH₃ in Beijing, the authors need to provide more evidence on the roles of traffic emissions on PM_{2.5} and/or on human/ecosystem exposures. See the first major comment point.

Response: Thank you for this suggestion, but we are skeptical about the reviewer's view that dominant NH₃ sources in Beijing are still agriculture. Recently, some studies have discussed the origin of atmospheric NH₃ in Beijing based on the δ¹⁵N technique (Chang et al., 2016; Pan et al., 2016). Chang et al. (2016) identified that non-agricultural sources, merged with waste and traffic NH₃ emissions, collectively accounted for approximately 50% of ambient NH₃ in urban Beijing before and after APEC summit, of which more than 20% was sourced from traffic emissions. Pan et al. (2016) claimed that fossil fuel-based NH₃ emissions (including traffic, coal combustion and power plants) have overtaken agricultural emissions as the dominant source of atmospheric NH₃ during the hazy days in urban Beijing. Such results from those studies cannot be explained by previous emission inventories (e.g., Fu et al., 2013; Huang et al., 2011, 2012; Kuang et al., 2016; M. Li et al., 2015; Zhang et al., 2009, 2010). Thus the attribution of NH₃ sources in Beijing is still an open topic. In contrast to the studies of Chang et al. (2016) and Pan et al. (2016), the current study directly measured NH₃ and NO₂ concentrations at road sites. Our results show positive and significant relationships between NH₃ and NO₂ during different monitoring

periods, and average NH_3 concentrations for all three ring roads decreased significantly during the Parade Blue period when compared with the pre- and post-Parade Blue period. In addition, during the post-Parade Blue period the measured NH_3 concentrations on the three ring roads ($28.3 \pm 6.4 \mu\text{g m}^{-3}$) were twice those at the rural sites 29 and 30 ($14.0 \pm 1.6 \mu\text{g m}^{-3}$) affected by intense agricultural NH_3 emissions. We think that the preceding discussion results (Section 4.2) are sufficient to confirm that traffic is indeed an important NH_3 source in Beijing.

The above discussions have been briefly summarized in the revised paper. In addition, we have conducted model sensitivity simulations to examine the impacts of anthropogenic NH_3 emissions on $\text{PM}_{2.5}$ concentration at Beijing, and presented the model results in the text, as described in the response to the first comment above.

7. Line 451: I want to bring it to the authors' attention that Chang et al. (2016) reported mileage-based NH_3 emission factor of 28 mg/km in Shanghai, one order of magnitude smaller than the emission factor used here. Note that one of the coauthors of this work is also on the author list of Chang et al. (2016).

Response: Thank you for this comment. The authors also found that the emission factor for vehicle-emitted NH_3 by Chang et al. (2016) was an order of magnitude smaller than that by Liu et al. (2014) which was used in the present study, but was similar to that estimated for the Gurbrist tunnel in Switzerland ($31 \pm 4 \text{ mg km}^{-1}$) (Emmenegger et al., 2004) and the Caldecott tunnel in California ($49 \pm 3 \text{ mg km}^{-1}$) (Kean et al., 2000). Different results obtained from those studies can be partially explained by differences in vehicle and fuel types, emission control technology, driving patterns and experimental methods (Keen et al., 2000, 2009; Baum et al., 2001; Heeb et al., 2006, 2008; Livingston et al., 2009). Therefore, we cannot judge the accuracy of existing emission factors of vehicle-emitted NH_3 . In the revised paper, we assumed that NH_3 emission factors by Chang et al. (2016) and Liu et al. (2014) can both be representative for Beijing, and then used them to estimate a range for the amount of traffic-related NH_3 emissions during the Parade Blue period. For accurately determining NH_3 emissions, however, further study on NH_3 emission factors for

vehicles at the Badaling Tunnel is warranted.

8. Lines 452-456: These numbers do not mean that much, just multiplying literature emission factor and activity data. If the traffic NH₃ emission was reduced by a half, can it explain the observed reduction in NH₃ concentrations? Did NH₃ emission reduction play any role in the PM_{2.5} reduction?

Response: We agree with the reviewer that the estimate of NH₃ emission based on a literature emission factor and activity data does not mean that much. However, we also think that it would be meaningful to give a quantitative formation for the reader, albeit with some uncertainty. As mentioned before (see response to Comment #7), our future work will address this issue based on realistic estimate of NH₃ emission factors for vehicles at the Badaling Tunnel and other tunnels.

According to NH₃ measurements in the present study, the mean NH₃ concentration at all sites within the 6th ring road in Beijing was significantly decreased (by 13%) during the Parade Blue period (when traffic load decreased by half) compared with the mean during the post-Parade Blue period without implementation of the odd-and-even car ban policy; further, on all three ring roads significant reductions (23 to 35%) of the mean during the Parade Blue period were also observed. Therefore, reduction of traffic NH₃ emission by half can partially explain the observed reduction in NH₃ concentrations, as emitted NH₃ in the atmosphere can be affected by many factors, such as acid gaseous (SO₂ and NO₂), meteorological conditions (e.g. wind speed, wind direction, precipitation) as well as regional transport (Meng et al., 2011; Behera et al., 2013).

Also for addressing the first three comments above, we have now discussed in the revised manuscript the impacts of NH₃ emissions on PM_{2.5} concentrations using the GEOS-Chem sensitivity simulations.

9. Line 517: Why was Fig. 4 mentioned after Figs. 5–11?

Response: We incorrectly mentioned the Fig. 4, and we have re-ordered the Figures in the revised paper.

10. Figure 2: Please define the meaning of “*” and “**” in the caption.

Response: Suggestion has been implemented.

11. Figure 8: This figure is hard to read and seems redundant with Fig. 9 for the wind and pressure.

Response: We agree with this comment. In contrast to Figure 9, Figure 8 shows period-to-period changes in wind field, sea surface pressure and precipitation over the whole China, which is helpful to interpret corresponding changes in pollutant concentrations in non-emission control regions and crucial for the reader. Therefore, we decide to keep Figure 8 but move it to the Supplement (see Figure S6) to avoid repetitive description of wind and pressure over Beijing and emission controlled region in China.

12. Table S1 caption: Information on the “thirty-one” monitoring sites?

Response: Yes, we are sorry for this misspelling, and we have corrected in the revised version.

Anonymous Referee #1

General comments

Recommend publication as it is.

Response: We thank the reviewer's recommendation for publication.

Reference:

Baum, M. M., Kiyomiya, E. S., Kumar, S., Lappas, A. M., Kapinus, V. A., and Lord, H. C.: Multicomponent remote sensing of vehicle exhaust by dispersive absorption spectroscopy. 2. Direct on-road ammonia measurements, Environ. Sci. Technol., 35, 3735-3741, doi:10.1021/Es002046y, 2001.

Behera, S. N., Sharma, M., Aneja, V. P., and Balasubramanian, R.: Ammonia in the atmosphere: a review on emission sources, atmospheric chemistry and deposition on terrestrial bodies, Environ. Sci. Pollut. R., 20, 8092–8131, doi:10.1007/s11356-013-2051-9, 2013.

Chang, Y., Zou, Z., Deng, C., Huang, K., Collett, J. L., Lin, J., and Zhuang, G.: The importance of vehicle emissions as a source of atmospheric ammonia in the

megacity of Shanghai, *Atmos. Chem. Phys.*, 16, 3577-3594, doi:10.5194/acp-16-3577-2016, 2016.

Emmenegger, L., Mohn, J., Sigrist, M., Marinov, D., Steinemann, U., Zumsteg, F., and Meier, M., Measurement of ammonia emissions using various techniques in a comparative tunnel study, *Int. J. Environ. Pollut.*, 22, 326-341, doi:10.1504/IJEP.2004.005547, 2004.

Fu, X., Wang, S., Zhao, B., Xing, J., Cheng, Z., Liu, H., and Hao, J.: Emission inventory of primary pollutants and chemical speciation in 2010 for the Yangtze River Delta region, China, *Atmos. Environ.*, 70, 39-50, doi:10.1016/j.atmosenv.2012.12.034, 2013.

Heeb, N. V., Sacher, C. J., Forss, A. M., and Brühlmann, S.: Correlation of hydrogen, ammonia and nitrogen monoxide (nitric oxide) emissions of gasoline-fueled euro-3 passenger cars at transient driving, *Atmos. Environ.*, 40, 3750-3763, doi:10.1016/j.atmosenv.2006.03.002, 2006.

Heeb, N. V., Sacher, C. J., Forss, A. M., and Brühlmann, S.: Trends of NO-, NO₂-, and NH₃-emissions from gasoline-fueled euro-3-to euro-4-passenger cars, *Atmos. Environ.*, 42, 2543-2554, doi:10.1016/j.atmosenv.2007.12.008, 2008.

Huang, C., Chen, C. H., Li, L., Cheng, Z., Wang, H. L., Huang, H. Y., Streets, D. G., Wang, Y. J., Zhang, G. F., and Chen, Y. R.: Emission inventory of anthropogenic air pollutants and VOC species in the Yangtze River Delta region, China, *Atmos. Chem. Phys.*, 11, 4105-4120, doi:10.5194/acp-11-4105-2011, 2011.

Huang, X., Song, Y., Li, M., Li, J., Huo, Q., Cai, X., Zhu, T., Hu, M., and Zhang, H.: A high-resolution ammonia emission inventory in China, *Global Biogeochem. Cy.*, 26, GB1030, doi:10.1029/2011GB004161, 2012.

Kean, A. J., Harley, R. A., Littlejohn, D., and Kendall, G. R.: On-road measurement of ammonia and other motor vehicle exhaust emissions, *Environ. Sci. Technol.*, 2000, 34, 3535-3539, doi:10.1021/es991451q.

Kean, A. J., Littlejohn, D., Ban-Weiss, G. A., Harley, R. A., Kirchstetter, T. W., and Lunden, M. M.: Trends in on-road vehicle emissions of ammonia, *Atmos. Environ.*, 43, 1565-1570, doi: 10.1016/j.atmosenv.2008.09.085.

Kurokawa, J., Ohara, T., Morikawa, T., Hanayama, S., JanssensMaenhout, G., Fukui, T., Kawashima, K., and Akimoto, H.: Emissions of air pollutants and greenhouse gases over Asian regions during 2000-2008: Regional Emission inventory in Asia (REAS) version 2, *Atmos. Chem. Phys.*, 13, 11019-11058, doi:10.5194/acp-13-11019-2013, 2013.

Livingston, C., Rieger, P., and Winer, A.: Ammonia emissions from a representative in-use fleet of light and medium-duty vehicles in the California south coast air basin, *Atmos. Environ.*, 43, 3326-3333, doi:org/10.1016/j.atmosenv.2009.04.009, 2009.

Li, M., Zhang, Q., Kurokawa, J., Woo, J. H., He, K. B., Lu, Z., Ohara, T., Song, Y., Streets, D. G., Carmichael, G. R., Cheng, Y. F., Hong, C. P., Huo, H., Jiang, X. J., Kang, S. C., Liu, F., Su, H., and Zheng, B.: MIX: a mosaic Asian anthropogenic emission inventory for the MICS-Asia and the HTAP projects, *Atmos. Chem. Phys. Discuss.*, 15, 34813–34869, doi:10.5194/acpd-15-34813-2015, 2015.

Liu, T., Wang, X., Wang, B., Ding, X., Deng, W., Lü, S., and Zhang, Y.: Emission factor of ammonia (NH₃) from on-road vehicles in China: Tunnel tests in urban Guangzhou, *Environ. Res. Lett.*, 9, 064027, doi:10.1088/1748-9326/9/6/064027, 2014.

Meng, Z. Y., Lin, W. L., Jiang, X. M., Yan, P., Wang, Y., Zhang, Y. M., Jia, X. F., and Yu, X. L.: Characteristics of atmospheric ammonia over Beijing, China, *Atmos. Chem. Phys.*, 11, 6139-6151, doi:10.5194/acp-11-6139-2011, 2011.

Pan, Y. P., Tian, S. L., Liu, D. W., Fang, Y. T., Zhu, X. Y., Zhang, Q., Zheng, B., Michalski, G., and Wang, Y. S.: Fossil Fuel Combustion-Related Emissions Dominate Atmospheric Ammonia Sources during Severe Haze Episodes: Evidence from ¹⁵N-Stable Isotope in Size-Resolved Aerosol Ammonium, *Environ. Sci. Technol.*, 50, 8049-8056, doi: 10.1021/acs.est.6b00634, 2016.

Zhang, L., Liu, L. C., Zhao, Y. H., Gong, S. L., Zhang, X. Y., Henze, D. K., Capps, S. L., Fu, T. M., Zhang, Q., and Wang, Y. X.: Source attribution of particulate matter pollution over North China with the adjoint method, *Environ. Res. Lett.*, 10, 084011, doi:10.1088/1748-9326/10/8/084011, 2015.

- Zhang, L., Shao, J. Y., Lu, X., Zhao, Y. H., Hu, Y. Y., Henze, D. K., Liao, H., Gong, S. L., and Zhang, Q.: Sources and processes affecting fine particulate matter pollution over North China: an adjoint analysis of the Beijing APEC period, *Environ. Sci. Technol.*, 50, 8731-8740, doi: 10.1021/acs.est.6b03010, 2016.
- Zhang, Q., Streets, D. G., Carmichael, G. R., He, K. B., Huo, H., Kannari, A., Klimont, Z., Park, I. S., Reddy, S., Fu, J. S., Chen, D., Duan, L., Lei, Y., Wang, L. T., and Yao, Z. L.: Asian emissions in 2006 for the NASA INTEX-B mission, *Atmos. Chem. Phys.*, 9, 5131–5153, doi:10.5194/acp-9-5131-2009, 2009.
- Zhang, Y., Dore, A. J., Ma, L., Liu, X. J., Ma, W. Q., Cape, J. N., and Zhang, F. S.: Agricultural ammonia emissions inventory and spatial distribution in the North China Plain, *Environ. Pollut.*, 158, 490-501, doi:10.1016/j.envpol.2009.08.033, 2010.
- Zhao, Y., Zhang, L., Pan, Y., Wang, Y., Paulot, F., and Henze, D. K.: Atmospheric nitrogen deposition to the northwestern Pacific: seasonal variation and source attribution, *Atmos. Chem. Phys.*, 15, 10905-10924, doi:10.5194/acp-15-10905-2015, 2015.

Air Quality Improvement in a Megacity: Implications from 2015 Beijing Parade

Blue Pollution-Control Actions

Wen Xu^{1,a, #}, Wei Song^{2,#}, Yangyang Zhang^{1,#}, Xuejun Liu^{1,*}, Lin Zhang³, Yuanhong Zhao³, Duanyang Liu⁴, Aohan Tang¹, Daowei Yang¹, Dandan Wang¹, Zhang Wen¹, Yuepeng Pan⁵, David Fowler⁶, Jeffrey L. Collett Jr.⁷, Jan Willem Erisman⁸, Keith Goulding⁹, Yi Li¹⁰, Fusuo Zhang¹

¹-College of Resources and Environmental Sciences, Center for Resources, Environment and Food Security, Key laboratory of Plant-Soil Interactions of MOE, China Agricultural University, Beijing 100193, China

²-Institute of Surface-Earth System Science, Tianjin University, Tianjin, 300072, China

³-Laboratory for Climate and Ocean-Atmosphere Studies, Department of Atmospheric and Oceanic Sciences, School of Physics, Peking University, Beijing 100871, China

⁴-Jiangsu Meteorological Observatory, Nanjing 210008, China

⁵-State Key Laboratory of Atmospheric Boundary Layer Physics and Atmospheric Chemistry (LAPC), Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing 100029, China

⁶-Centre for Ecology and Hydrology Edinburgh, Bush Estate, Penicuik, Midlothian EH26 0QB, UK

⁷-Department of Atmospheric Science, Colorado State University, Fort Collins, CO 80523, USA

⁸-Louis Bolk Institute, Hoofdstraat 24, 3972 LA Driebergen, The Netherlands

⁹-The Sustainable Soil and Grassland Systems Department, Rothamsted Research, West Common, Harpenden, Hertfordshire, AL5 2JQ, UK

¹⁰-Arizona Department of Environmental Quality, Phoenix, AZ, 85007, USA

[Current address: State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Shuangqing Road 18, Haidian District, Beijing 100085, China](#)

Equal contribution; * Corresponding author (Email: liu310@cau.edu.cn)

Abstract:

The implementation of strict emission control measures in Beijing and surrounding regions during the 2015 China Victory Day Parade provided a valuable opportunity to investigate related air quality improvements in a megacity. We measured NH₃, NO₂ and PM_{2.5} at multiple sites in and outside Beijing and summarized concentrations of PM_{2.5}, PM₁₀, NO₂, SO₂ and CO in 291 cities across China from a national urban air quality monitoring network between August and September 2015.

Consistently significant reductions of 12-35% for NH₃ and 33-59% for NO₂ in

36 different areas of Beijing city during the emission control period (referred to as the
37 Parade Blue period) were observed compared with measurements in the pre- and
38 post-Parade Blue periods without emission controls. Average NH₃ and NO₂
39 concentrations at sites near traffic were strongly correlated and showed positive and
40 significant responses to traffic reduction measures, suggesting that traffic is an
41 important source of both NH₃ and NO_x in urban Beijing. Daily concentrations of
42 PM_{2.5} and secondary inorganic aerosol (sulfate, ammonium, and nitrate) at the urban
43 and rural sites both decreased during the Parade Blue period. During (after) the
44 emission control period, Concentrations concentrations of PM_{2.5}, PM₁₀, NO₂, SO₂
45 and CO from the national city-monitoring network showed the largest decrease
46 (increase) (of 34-72%) (50-214%) in Beijing, a smaller decrease (a moderate
47 increase) (of 1-32% (16-44%) in North Chinaemission control regions (excluding
48 Beijing), and an increase (decrease) (of 6-16% (-2-7%) in other non-emission control
49 regions of Chinaduring the emission control period. Integrated analysis of modeling
50 and monitoring results demonstrated that emission control measures made a major
51 contribution to air quality improvement in Beijing compared with a minor
52 contribution from favorable meteorological conditions during the Parade Blue period.
53 These results show that controls of secondary aerosol precursors (NH₃, SO₂ and NO_x)
54 locally and regionally are key to curbing air pollution in Beijing and probably in
55 other mega cities worldwide.

56

57 **Introduction**

58 China's economy has made great advances over the last three decades. Its gross
59 domestic production (GDP) ranked fifteenth in the world in 1978 but has risen to
60 second place since 2010. During this period, environmental pollution has greatly
61 increased, including soil, water and air pollution (Chan et al., 2008; Guo et al., 2010;
62 Chen et al., 2014; Lu et al., 2015), which has become a major issue for the country.
63 The Chinese government and people have grown particularly concerned about
64 reducing air pollution since the large-scale haze pollution that occurred in China in

65 January 2013. This episode affected an area of approximately 1.3 million km² and
66 800 million people (Huang et al., 2014). It led to serious human health problems and
67 forced the Chinese government to address the problem of very large exposures of the
68 Chinese population to PM_{2.5} (particulate matter ≤ 2.5 µm in aerodynamic diameter)
69 pollution. For example, compared with a similar winter period without haze
70 pollution (daily child patients < 600), more than 7000 daily child patients were
71 reported in Beijing Children's Hospital during the smog period in January 2013
72 (http://qnck.cyol.com/html/2014-01/01/nw.D110000qnck_20140101_1-28.htm). In
73 response to this the 'Atmospheric Pollution Prevention and Control Action Plan' was
74 implemented by the Chinese government in September 2013, aiming to reduce PM_{2.5}
75 in Beijing by at least 25% from the 2012 level by 2017.

76 Many industrialized megacities have experienced severe air pollution, such as Los
77 Angeles during the 1940s-1970s (Haagen-Smit, 1952; Parrish et al., 2011), Mexico
78 city in the 1980s (Parrish et al., 2011), and London in the 1950s (Davis et al., 2002).
79 In these megacities, however, enormous progress in improving air quality has been
80 achieved with the implementation of various emission control strategies over recent
81 decades, despite rapid population growth and urbanization. According to Parrish et al.
82 (2011), first stage smog alerts in Los Angeles have decreased from some 200 per
83 year in the 1970s to about 10 per year now, and concentrations of air pollutants in
84 Mexico City have been reduced substantially over the past decades. Also, air quality
85 is now much better in London, with mean annual PM₁₀ levels (particulate matter ≤ 10
86 µm in aerodynamic diameter) closer to 30 µg m⁻³ than the 300 µg m⁻³ fifty years ago
87 (and approx. 3000 µg m⁻³ in December 1952) (Davis et al., 2002).

88 Beijing, the capital of China, is one of the largest megacities in the world with 22
89 million inhabitants and an area of 16800 square kilometers. The city is enclosed by
90 the Yanshan Mountains to the north and Taihang Mountains to the west. Its
91 fan-shaped topography permits efficient southerly transport of pollutants to Beijing,
92 which reduces air quality (Chen et al., 2015). A 70th anniversary victory parade was
93 held in Beijing on 3 September 2015 to commemorate the conclusion of the second

94 Sino-Japanese War and the end of World War II. The Chinese government imposed a
95 series of strict and urgent air pollutant emission-reduction measures to improve air
96 quality during what has been called the ‘Parade Blue’ period, from 20 August to 3
97 September 2015, in Beijing and surrounding regions ~~of North China~~ (including
98 Tianjin City, Hebei, Inner Mongolia Autonomous Region, Hebei, Shandong, Shanxi,
99 and Henan Provinces) to guarantee better air quality in the city. During this period,
100 motor vehicles (except taxies and buses) with even or odd registration numbers were
101 banned on alternate days, 1927 industrial enterprises had to limit production or were
102 shut down, and hundreds of construction sites in Beijing were closed, reducing air
103 pollutant emissions by 40% (<http://gongyi.sohu.com/20150826/n419765215.shtml>).

104 ~~More broadly in North China~~For all seven of the cities, provinces and autonomous
105 regions, air pollutant emissions during the Parade Blue period were decreased by
106 30% through a variety of reduction measures
107 (<http://news.sohu.com/20150819/n419198051.shtml>). No additional pollution
108 control measures were taken in other regions of China (outside Beijing and ~~North~~
109 Chinasurrounding regions) during this period.

110 Previous studies have attempted to quantify the role of short-term pollutant emission
111 control measures in air quality improvement in Beijing during the 2008 Olympics
112 (Wang et al., 2009, 2010; Shen et al., 2011) and the 2014 Asia-Pacific Economic
113 Cooperation (APEC) meeting (Chen et al., 2015). In addition, Tang et al. (2015)
114 reported that local emissions are the key factors determining the formation and
115 development of air pollution in the Beijing area. Ianniello et al. (2010) inferred that
116 traffic may be an important emission source of NH₃ in Beijing. However, the above
117 studies did not systematically answer the three following questions: what were (1)
118 the contribution of ammonia (NH₃) ~~from traffic~~ sources to urban PM_{2.5} pollution; (2)
119 ~~the response (linear or non-linear) of air pollutant (e.g. PM_{2.5}) concentrations to~~
120 ~~major pollutant emission reduction;~~ and (23) the relative roles of pollution control
121 measures and weather conditions in air quality improvement? The present study
122 attempts to examine these important topics by taking advantage of the

123 implementation of emission controls for the 70th anniversary victory parade. We
124 present results showing changes in concentrations of atmospheric pollutants (i.e.,
125 NH₃, NO₂, PM_{2.5} and associated inorganic water-soluble ions ([WSIs](#)) before, during,
126 and after the Parade Blue period, obtained from *in situ* measurements at thirty-one
127 sites in and outside Beijing. In addition, we compare the Chinese Ministry of
128 Environmental Protection officially released daily concentrations of PM_{2.5}, PM₁₀,
129 NO₂, SO₂ and CO at 291 cities in China during the same period. The first results
130 from the analysis of this extensive dataset reveal clear effects of the Parade Blue
131 emission reduction measures on air quality improvement and provide a scientific
132 basis for demonstrating the effectiveness of such control measures for air pollution
133 in mega cities.

134 **2 Materials and methods**

135 *2.1 Site selection and description*

136 Thirty-one air pollution monitoring sites have been established in and outside
137 Beijing municipality, with longitudes ranging from 115.02 °E to 118.20 °E and
138 latitudes from 36.84 °N to 40. 34 °N (**Fig. 1**). The 28 monitoring sites in Beijing
139 municipality are grouped into road and non-road sites to better distinguish the
140 impacts of control measures on sites near traffic. A brief description of all the sites is
141 given below. Detailed information, including specific sampling site, site type, and
142 potential emission sources for each site, is listed in **Table S1** in the Supplement.

143 *In Beijing:* Sixteen roadside monitoring sites are homogeneously distributed at the
144 edges of three major roads, including four sites each on the 3rd and 4th ring roads, and
145 eight sites on the 5th ring road. Additional road sites (sites 26 to 28) are in northwest
146 rural regions near the Yanshan mountains. Site 26 is located at the edge of the
147 Badaling highway, about 46 km northwest of the center of Beijing. Sites 27 and 28
148 are located, respectively, [inside](#) (100 m from the exit) and [outside](#) (30 m from the
149 entrance)~~—of~~ the Badaling Highway Tunnel (1091.2 m long), which has two traffic
150 tunnels with one lane in each. The road sites were strongly and directly influenced
151 by vehicle emissions. Nine non-road sites were chosen over a wide area, extending

152 from an urban area (site 1) near the city center, through suburban areas (sites 6, 11,
153 12 and 13) between the 3rd and 5th ring roads, and ending in rural areas (sites 22 to
154 25) between the northwest 5th and 6th ring roads. These are likely to be polluted by
155 emissions from various sources, including dense housing, industry, cropland, small
156 villages, etc.

157 *Outside Beijing:* Site 29 is located in a rural area of Yucheng city, Shandong
158 province. Site 30 is located in Quzhou county, Hebei province, which is a typical
159 rural agricultural site with a recently constructed industrial district. Site 31 is a
160 regional background site located on Changdao island, Shandong province.

161 *2.2 Sampling procedure and sample analysis*

162 Atmospheric NH₃, NO₂ and PM_{2.5} were measured from 3 August to 30 September
163 2015. The period can be divided into three phases: (1) 3-19 August (named
164 pre-Parade Blue period), (2) 20 August-3 September (Parade Blue period), and (3)
165 4-30 September (post-Parade Blue period). The sampling durations, measured
166 pollutants and number of samples for all the sites during each phase are summarized
167 in **Table S1** in the Supplement. The measurements of NH₃, NO₂ and PM_{2.5} were not
168 concurrently made at most sites due to a shortage of manpower and samplers, but the
169 corresponding sampling sites together covered the major emission sources of
170 measured pollutants. Methods for sampling gases and PM_{2.5} are briefly presented
171 below. For further details of the methodology the reader is referred to relevant
172 previous publications (Xu et al., 2014, 2015, 2016).

173 *Gaseous NH₃ and NO₂:* NH₃ samples were collected using ALPHA passive samplers
174 (Adapted Low-cost High Absorption, provided by the Centre for Ecology and
175 Hydrology, Edinburgh, UK) and NO₂ samples using Gradko diffusion tubes (Gradko
176 International Limited, UK). At each site, three ALPHA samplers and/or three NO₂
177 tubes were deployed under a PVC shelter (2 m above the ground) to protect the
178 samplers from rain and direct sunlight (Pictures for 4 selected road sites are shown in
179 **Fig. S1** of the Supplement). The samplers were exposed for 7 to 14 days during the
180 three study phases. NH₃ was extracted with high-purity water (18.2 MΩ) and analyzed

181 using a continuous-flow analyzer (Seal AA3, Germany). NO₂ samples, also extracted
182 with high-purity water, were analyzed using a colorimetric method by absorption at a
183 wavelength of 542 nm. More details of the passive samplers and their laboratory
184 preparation and analysis can be found in Xu et al. (2014, 2015).

185 *Airborne PM_{2.5}:* 24-h PM_{2.5} samples were collected on 90 mm quartz fiber filters
186 (Whatman QM/A, Maidstone, UK) using medium-volume samplers (TH-150CIII,
187 Tianhong Co., Wuhan, China), at a flow rate of 100 L min⁻¹ (Xu et al., 2016). The
188 PM_{2.5} mass was determined using the standard gravimetric method, and one quarter
189 of each PM_{2.5} sample was ultrasonically extracted with 10 ml high-purity water for
190 30 min, with the extract being filtered by a syringe filter (0.45 µm, Tengda Inc.,
191 China). The water-soluble cations (NH₄⁺, Na⁺, Ca²⁺, K⁺, Mg²⁺) and anions (NO₃⁻,
192 SO₄²⁻, F⁻, Cl⁻) in the extract were analyzed using Dionex-600 and Dionex-2100 Ion
193 Chromatographs (Dionex Inc., Sunnyvale, CA, USA), respectively (Zhang et al.,
194 2011; Tao et al., 2014).

195 *2.3 Quality assurance/ Quality control (QA/QC)*

196 All samples were prepared and measured in the Key Laboratory of Plant-Soil
197 Interactions, Chinese Ministry of Education, China Agricultural University, which
198 has a complete and strict quality control system. Three field (travel) blanks were
199 prepared for each batch of samples and analyzed together with those samples. All
200 reported concentrations of gases and PM_{2.5} mass and ion concentrations are corrected
201 for the blanks. The detection limits were 0.01-0.02 mg L⁻¹ for the measured ions.
202 The measurement precisions were in the range of 5-10% for NH₃, NO₂, PM_{2.5} mass
203 and water soluble ion concentrations. Quality assurance was routinely (once every
204 15-20 samples) checked using standard (designed specific concentrations of various
205 ions) samples during sample analysis.

206 *2.4 Other data collection*

207 The 24-h (daily) average concentrations of PM_{2.5}, PM₁₀, NO₂, SO₂ and CO measured
208 in 291 cities across China (including Beijing city, surrounding 63 cities in **North**
209 **China emission control regions (hereafter termed to emission control regions**

(excluding Beijing)), and 227 cities in other regions of China (hereafter referred to as non-emission control regions) during the Pre-Parade Blue period and the Parade Blue and post-Parade periods were downloaded from the Ministry of Environmental Protection (MEP) of China (<http://www.mep.gov.cn>). These data for each city are summarized in **Tables S2-6** in the Supplement. For Beijing city, each pollutant's daily individual Air Quality Index (AQI) during the above two-three periods was calculated from the 24-h average concentration. The highest individual AQI was selected and used as the daily AQI. An AQI of 0-50, 51-100, 101-150, and 151-200 is classified as “excellent”, “good”, “slightly polluted” and “moderately polluted”, respectively. Details of the calculations of AQI and the associated classification of air quality are given in the Chinese Technical Regulations on AQI (MEPC, 2012).

Daily meteorological data in the above mentioned 291 cities (1+63+227) for wind speed (WS), temperature (T), and relative humidity (RH) during the Parade Blue period and non-Parade Blue periods (the pre- and post-Parade Blue periods and/or the period of 8-19 September 2015) were obtained from Weather Underground (<http://www.underground.com>). The daily precipitation and half-hourly wind speed and direction were measured in Beijing city. The NCEP/NCAR global reanalysis meteorological data (including daily wind speed, wind direction, sea surface pressure and precipitation) during the same periods were provided by the NOAA/OAR/ESRL PSD, Boulder, Colorado, USA, from their website (<http://www.esrl.noaa.gov/psd>). The daily mean atmospheric mixing layer height (MLH) in Beijing during the period from 3 August to 30 September 2015 was calculated using the method described in Holzworth (1964, 1967). For Beijing city, emission reductions of major investigated variables (PM_{2.5}, PM₁₀, NO_x and SO₂) resulting from the various control measures were uniformly assumed to be 0%, 25%, 30%, 40% and 5% during the periods 1-19 August, 20-24 August, 25-29 August, 30 August-3 September and 4-30 September 2015, respectively, because control measures began on 20 August 2015 and were more stringent during the period from 28 August to 4 September 2015 (<http://china.caixin.com/2015-09-01/100845761.html>). To assess the impacts of

239 changes in pollutant emissions on resulting ambient atmospheric concentrations, a
240 linear or nonlinear fit was performed by using the aforementioned pollutant emission
241 reductions and the mean ambient concentrations of relevant pollutants during the
242 five periods (averaging from officially released daily concentrations of the pollutants
243 for Beijing city).

244

245 *2.5 Back trajectories and statistical analysis*

246 The 72-h (3-day) backward trajectories arriving at Beijing were calculated four times
247 a day (00:00, 06:00, 12:00, and 18:00 UTC) at 100 m height using the Hybrid Single
248 Particle Lagrangian Integrated Trajectory (HYSPLIT-4, NOAA) 4.9 model (Draxler
249 and Hess, 1997). Meteorological data with a resolution of $0.5^\circ \times 0.5^\circ$ were input
250 from the Global Data Assimilation System (GDAS) meteorological data archives of
251 the Air Resource Laboratory, National Oceanic and Atmospheric Administration
252 (NOAA). The trajectories were then grouped into four clusters during each period
253 using cluster analysis based on the total spatial variance (TSV) method (Draxler et
254 al., 2012). Values of NH₃, NO₂, PM_{2.5} and ion concentrations per study phase at the
255 sampling sites are shown as the mean \pm standard error (SE). Temporal differences
256 between study phases of concentrations of measured gases (NH₃ and NO₂) and the
257 MEP of reported pollutants (i.e. PM_{2.5}, PM₁₀, NO₂, SO₂ and CO) were investigated
258 using paired t-tests while those of measured PM_{2.5} mass and associated ionic
259 components were investigated using a non-parametric Mann-Whitney U test. All
260 statistical analyses were performed using SPSS11.5 (SPSS Inc., Chicago, IL, USA).
261 Statistically significant differences were set at $p < 0.05$ unless otherwise stated.

262

263 **3. Results**

264 *3.1 Concentrations of gaseous NH₃ and NO₂*

265 Ambient NH₃ concentrations varied greatly during the pre-Parade Blue, Parade Blue
266 and post-Parade Blue periods, with values of 8.2-31.7, 7.8-50.7 and 7.4-40.2 $\mu\text{g m}^{-3}$,
267 respectively (**Fig. 2A a**). The average NH₃ concentrations during the three periods

268 for the sites within inside the 6th ring road (abbreviated as SWR, including road sites
269 (RS) on the 3rd, 4th and 5th ring roads and non-road sites (NRS)), outside the 6th ring
270 road but in Beijing (SOI) and outside Beijing (SOB), are shown in **Fig. 2A b and c**.
271 The mean NH₃ concentration at SWRinside the 6th ring road was significantly
272 smaller (by 13%) during the Parade Blue period compared with the mean during the
273 post-Parade Blue period ($20.2 \pm 1.2 \mu\text{g m}^{-3}$ versus $23.3 \pm 1.8 \mu\text{g m}^{-3}$); further, on all
274 three ring roads reductions (23 to 35%) of the mean during the Parade Blue period
275 were statistically significant while at the NRS non-road sites a small non-significant
276 increase (15%) in the mean was observed (**Fig. 2A c**). The mean NH₃ concentration
277 at SOIoutside the 6th ring road was 12% smaller in the Parade Blue period than in the
278 post-Parade Blue period ($21.4 \pm 6.0 \mu\text{g m}^{-3}$ versus $24.3 \pm 9.3 \mu\text{g m}^{-3}$), whereas at
279 SOBoutside Beijing, non-significant increases (on average 80%) in the mean
280 occurred during the Parade Blue period ($26.7 \pm 12.6 \mu\text{g m}^{-3}$) compared with those
281 during the pre- and post-Parade Blue periods (19.9 ± 6.2 and $11.8 \pm 2.3 \mu\text{g m}^{-3}$,
282 respectively).

283 Ambient NO₂ concentrations ranged from 21.5 to 227.7, 14.1 to 258.8, and 15.7 to
284 $751.8 \mu\text{g m}^{-3}$ during the pre-Parade Blue, Parade Blue and post-Parade Blue periods,
285 respectively (**Fig. 2B a**). The mean NO₂ concentrations at SWRthe sites inside the
286 6th ring road (including road sites on the 5th ring road and NRS), SOIoutside the 6th
287 ring road and SOBoutside Beijing during the three periods are shown in **Fig. 2B b**
288 and **c**. At SWRInside the 6th ring road, the mean concentration during the Parade
289 Blue period ($78.7 \mu\text{g m}^{-3}$) was 42% and 35% lower ($p < 0.01$) than the means during
290 the pre- and post-Parade Blue periods (135.7 ± 21.8 and $121.0 \pm 16.5 \mu\text{g m}^{-3}$,
291 respectively). For the 5th ring road sites RS and NRS, most reductions (33~42%) in
292 the mean during the Parade Blue period were also highly significant ($p < 0.01$). At
293 SOIInside the 6th ring road, a large non-significant reduction (59%) in the mean
294 concentration occurred during the Parade Blue period compared with the post-Parade
295 Blue period (183.5 ± 49.1 versus $443.4 \pm 173.3 \mu\text{g m}^{-3}$). At SOBOutside Beijing, the
296 change in the mean during the Parade Blue period ($23.7 \pm 3.6 \mu\text{g m}^{-3}$) was small and

297 non-significant when compared with the means during the pre- and post-Parade
298 periods (27.5 ± 4.5 and $18.5 \pm 1.7 \mu\text{g m}^{-3}$, respectively).

299

300 *3.2 Concentrations of PM_{2.5} and its chemical components*

301 A statistical analysis of concentrations of PM_{2.5} mass and associated inorganic WSIs
302 at sites 22, 29 and 30 in the three periods is presented in **Table 1**. Daily PM_{2.5}
303 concentrations ranged from 4.2 to 123.6, 15.4 to 116.0, and 12.4 to 170.7 $\mu\text{g m}^{-3}$ at
304 sites 22, 29 and 30, respectively. At sites 22 and 29, mean PM_{2.5} concentrations
305 during the Parade Blue period decreased significantly (by 49% and 40%,
306 respectively) compared with the means during the pre-Parade Blue period, and
307 increased again during the post-Parade Blue period (57% and 3%, respectively)
308 compared with the means during the Parade Blue period. At site 30, a 24% reduction
309 in mean PM_{2.5} concentrations occurred during the Parade Blue period compared with
310 the pre-Parade Blue period and a 103% increase during the post-Parade Blue period.
311 Secondary inorganic aerosols (SIA) (sum of NH₄⁺, NO₃⁻ and SO₄²⁻) were major
312 components of PM_{2.5}, with average contributions of 24%, 41% and 32% to the daily
313 average PM_{2.5} mass at sites 22, 29 and 30, respectively. As with PM_{2.5}
314 concentrations, concentrations of all the WSIs (except for Cl⁻) at site 22 decreased
315 significantly during the Parade Blue period compared with the pre- and/or
316 post-Parade Blue periods. Analogous behavior also occurred at sites 29 and 30 for
317 concentrations of NO₃⁻, NH₄⁺ and SO₄²⁻ but not for those of most of other ions (e.g.
318 Ca²⁺, K⁺, F⁻, Na⁺).

319

320 *3.3 Daily mean pollutant concentrations from MEP*

321 Daily mean concentrations of the five major pollutants (PM_{2.5}, PM₁₀, NO₂, SO₂ and
322 CO) at 291 cities in China, divided into three groups of Beijing, cities in North
323 China (NC, area surrounding Beijing) emission control regions (excluding Beijing)
324 and cities in other regions of China non-emission control regions, are summarized in
325 **Fig. 3.** Average concentrations of PM_{2.5}, PM₁₀, NO₂, SO₂ and CO during the Parade

326 Blue period were highly significantly ($p<0.01$) decreased in Beijing, with reductions
327 of 72%, 67%, 39%, 34% and 39%, respectively, compared with the pre-Parade Blue
328 period. PM_{2.5} concentrations in Beijing, for example, remained below 20 $\mu\text{g m}^{-3}$ for
329 14 consecutive days in the Parade Blue period (for comparison: the WHO and
330 China's (first-grade) thresholds for daily PM_{2.5} concentrations are 25 and 35 $\mu\text{g m}^{-3}$,
331 respectively). The daily PM_{2.5} concentrations in Beijing in the pre-Parade Blue
332 period averaged 59 $\mu\text{g m}^{-3}$. Concentrations of PM_{2.5}, PM₁₀ and SO₂ in the Parade
333 Blue period were also significantly ($p<0.05$) decreased in cities in ~~North~~
334 ~~China~~emission control regions (excluding Beijing), with reductions of 32%, 29%
335 and 7%, respectively, while concentrations of NO₂ and CO did not show statistically
336 significant changes ($p>0.05$). After the Parade Blue period, concentrations of the five
337 major pollutants in Beijing and surrounding regions rebounded quickly, with
338 significant increases of 50-214%, and 16-44%, respectively. In cities in other regions,
339 by contrast, where no additional emission reduction measures were taken,
340 concentrations of PM_{2.5}, PM₁₀, NO₂, SO₂ and CO remained stable or were
341 significantly ($p<0.05$) higher during the Parade Blue period compared with the pre-
342 and post-Parade Blue periods.

343

344 4. Discussion

345 4.1 Effect of emission controls on air quality

346 The statistical analyses (**Fig. 3**) show that, by taking regional emission controls
347 during the Parade Blue period, daily concentrations of the five reported pollutants
348 (PM_{2.5}, PM₁₀, NO₂, SO₂ and CO) in Beijing city and surrounding other cities in
349 ~~North China~~the six provinces were decreased by various but statistically significant
350 amounts, in sharp contrast to increases in cities in other parts of China where no
351 additional emission controls were imposed. This shows the effectiveness of the
352 pollution controls and suggests that air quality improvement was directly related to
353 the reduction intensities of pollutant emissions (e.g., air pollution control effects
354 ranked by Beijing (largest reduction) > ~~North~~Chinaemission control regions

355 | surrounding Beijing (moderate reduction) > other regions (no reduction) in China).
356 | Another way of quantifying the effect of the additional control measures for Beijing
357 | uses the Air Quality Index (MEPC, 2012). On the basis of the calculated air quality
358 | index (AQI, **Fig. 54**), defined “good” and polluted days (i.e. “slightly polluted” and
359 | “moderately polluted”) altogether accounted for 89% ~~for the days of during~~ the
360 | pre-Parade Blue period, ~~and 70% during the post-Parade Blue period were classified~~
361 | as “good”, ~~and the~~ ~~The~~ primary pollutant was PM_{2.5} for 82% ~~and 63%~~ of these days
362 | ~~during the Pre- and post-Parade Blue periods, respectively~~. In contrast, almost all of
363 | the days during the Parade Blue period were defined as “excellent”. Thus improved
364 | air quality-as represented by the AQI during the Parade Blue period was mainly
365 | attributed to the additional control of PM_{2.5} precursors.

366 | Results from the MEP of source apportionment of PM_{2.5} for Beijing
367 | (http://www.bj.xinhuanet.com/bjyw/2014-04/17/c_1110289403.htm) showed that
368 | 64-72% of atmospheric PM_{2.5} during 2012-2013 was generated by emissions from
369 | local sources, of which the biggest contributor was vehicle exhaust (31.1%),
370 | followed by coal combustion (22.4%), industrial production (18.1%), soil dust
371 | (14.3%) and others (14.1%). The contribution from vehicles had increased by 1.7
372 | percentage points compared to 2010-2011. To examine the contribution of vehicles,
373 | power plants, and industries to PM_{2.5} concentrations, PM_{2.5} concentrations from
374 | these were compared with those of other primary pollutants such as NO_x (NO+NO₂),
375 | CO and SO₂ (Zhao et al., 2012). As shown in **Fig. S2a-d** in the Supplement, the
376 | linear correlations of PM_{2.5} with each pollutant gas (CO, NO₂ and SO₂) and their sum
377 | were positive and highly significant ($R=0.5040-0.88$, $p<0.05$) during the study
378 | period, except for the relationship between PM_{2.5} and NO₂ during the pre-Parade
379 | Blue period and that of PM_{2.5} versus SO₂ during the Parade Blue period, both of
380 | which were positive but not significant ($p>0.05$). This finding is consistent with the
381 | source apportionment results that suggest traffic, power plants and industry are
382 | significant sources of PM_{2.5} in Beijing. Given the importance of local vehicle
383 | emissions vs. more distant power plant and industrial emissions for Beijing's air

384 quality, the ratio of CO/SO₂ can be used as an indicator of the contribution of local
385 emissions to air pollution, with higher ratios indicating higher local contributions
386 (Tang et al., 2015). Ratios of CO/SO₂ decreased (on average by 2218%) from the
387 pre-Parade Blue to Parade Blue period, and then increased abruptly on 4th September
388 in the Post-Parade Blue period (**Fig. 54**), further suggesting the decreased amount of
389 pollutants from local contributions. Beijing has relatively little industry but
390 numerous automobiles, and the emissions of SO₂ are small while those of CO and
391 NO_x are much larger (Zhao et al., 2012). Thus, traffic emission is likely to be a
392 determining factor influencing urban CO and NO_x levels. This, in combination with
393 a strong positive and highly significant correlation of PM_{2.5} versus CO+NO₂ during
394 the study period (**Fig. S2e, Supplement**), and the weak correlation of PM_{2.5} versus
395 SO₂ noted above (**Fig. S2c, Supplement**), shows that traffic emission controls
396 should be a priority in mitigating PM_{2.5} pollution in the future.

397 Concentrations of PM_{2.5} levels in Beijing are not only driven by primary emissions
398 but are also affected by meteorology and atmospheric chemistry operating on the
399 primary pollutants, leading to secondary pollutant formation (Zhang et al., 2015). To
400 quantify the likely contribution of secondary pollutant formation of PM_{2.5} as a
401 contributor to the observed changes between the Parade Blue period and pre- and
402 post-measurements, CO provides an excellent tracer for primary combustion sources
403 (de Gouw et al., 2009). Daily ratios of PM_{2.5}/CO during the Parade Blue period
404 decreased (by 50%) significantly on average by 50% and 40% relative to the pre-
405 and post-Parade Blue periods, respectively~~during the Parade Blue period compared~~
406 ~~with those during the pre-Parade Blue period~~ (**Fig. 54**), which suggests that the
407 significant reduction of PM_{2.5} concentrations during the Parade Blue period was not
408 only due to less anthropogenic primary emissions but also due to reduced secondary
409 pollutant formation. This is further supported by our measured results at urban site
410 22, where average SIA concentrations comprised 20-29% of average PM_{2.5} mass
411 over the three periods, and decreased significantly during the Parade Blue period
412 compared with those during the pre- and post-Parade Blue periods (**Table 1**).

413 Significant reductions of concentrations of precursor gases (e.g. NO₂, SO₂ and NH₃)
414 at the city scale is likely to be the major reason for such reduced secondary pollutant
415 formation. In addition, lower concentrations of sulfate and nitrate during the Parade
416 Blue period might also be caused by lower oxidation rates of SO₂ and NO_x. The
417 sulfur oxidation ratio ($SOR=nSO_4^{2-}/(nSO_4^{2-}+nSO_2)$) and the nitrogen oxidation ratio
418 ($NOR=nNO_3^-/(nNO_3^-+nNO_2)$) (n refers to the molar concentration) are indicators of
419 secondary pollutant transformation in the atmosphere. Higher values of SOR and
420 NOR imply more complete oxidation of gaseous species to sulfate- and
421 nitrate-containing secondary particles (Sun et al., 2006). To understand the potential
422 change in the degree of oxidation of sulfur and nitrogen, we used daily
423 concentrations of SO₄²⁻ and NO₃⁻ measured at urban site 22 (located at west campus
424 of China Agricultural University) and the MEP-reported concentrations of SO₂ and
425 NO₂ at the Wanliu monitoring station to calculate the SOR and NOR values. This is
426 because these two sites, only 7 km apart (**Fig. S3, Supplement**), experience similar
427 pollution climates. The average values of SOR and NOR were 0.64 and 0.04 during
428 the pre-Parade Blue period, ~~and~~ 0.47 and 0.03 during the Parade Blue period, and
429 0.48 and 0.07 during the Post-Parade Blue period, respectively. (**Fig. S4,**
430 **Supplement**). Compared with the pre- and post-Parade Blue periods, Slightly
431 slightly reduced values of SOR and NOR ~~from the pre-Parade Blue to~~during the
432 Parade Blue periods suggests a possible minor role for changes in the extent of
433 photochemical oxidation in secondary transformation.

434 Ammonia is the primary alkaline trace gas in the atmosphere. In ammonia-rich
435 environments, NH₄HSO₄ and (NH₄)₂SO₄ are sequentially formed, and the surplus
436 NH₃ that does not react with H₂SO₄ can form NH₄NO₃ (Wang et al., 2005). In both
437 the pre-Parade Blue and Parade Blue periods, NH₄⁺ was strongly correlated with
438 SO₄²⁻ (**Fig. S5 a and c, Supplement**) and [SO₄²⁻+NO₃⁻] (**Fig. S5 b and d,**
439 **Supplement**), and the regression slopes were both 0.87 during the pre-Parade Blue
440 period, ~~and~~ 0.97 and 0.91, respectively, during the Parade Blue period, and 1.13 and
441 0.79 during the post-Parade Blue period, respectively. These results indicate almost

442 complete neutralization of acidic species (HNO_3 and H_2SO_4) by NH_3 in $\text{PM}_{2.5}$ during
443 these ~~two-three~~ periods especially in the Parade Blue period. In this way, SIA
444 concentrations from these sources could not be further reduced during the Parade
445 Blue period unless NH_3 emissions were reduced more than those of SO_2 and NO_x .

446 *4.2 Impact of traffic NH_3 emission on urban NH_3 concentration*

447 The sources of NH_3 are dominated by agriculture, but it may also be produced by
448 motor vehicles due to the over-reduction of NO in catalytic converters (Kean et al.,
449 2000). The contribution of traffic to the total NH_3 emissions is estimated at
450 approximately 2% in Europe (EEA, 2011) and 5% in the US (Kean et al., 2009). In
451 China, NH_3 emissions from traffic rose from 0.005 Tg (contributing approximately
452 0.08% to total NH_3 emissions) in 1980 to 0.5 Tg (contributing approximately 5% to
453 total emissions) in 2012 (Kang et al., 2016). As for Beijing city, recent studies have
454 discussed the origin of atmospheric NH_3 in Beijing city based on the $\delta^{15}\text{N}$ technique
455 (Chang et al., 2016; Pan et al., 2016). For example, Chang et al. (2016) identified
456 that non-agricultural sources, merged with waste and traffic NH_3 emissions,
457 collectively account for approximately 50% of ambient NH_3 in urban Beijing before
458 and after APEC summit, of which more than 20% was sourced from traffic
459 emissions.

Traffic is therefore likely to make a very significant contribution to NH_3
460 concentrations in urban areas of Beijing, and a strong correlation of NH_3 with
461 traffic-related pollutants was observed (NO_x and CO) at the urban sites (Ianniello et
462 al., 2010; Meng et al., 2011). However, this relationship has a large uncertainty
463 because the concentrations of pollutants used to establish the relationship were
464 measured at ‘background’ urban sites some distance from major roads, and other
465 urban sources such as decaying organic matter may contribute. In the present study,
466 strong and significant correlations were observed between NH_3 and NO_2
467 concentrations measured on the 5th ring road during all three periods (**Fig. 65**). In
468 addition, compared with the averages for the three ring roads during the pre- and/or
469 post-Parade Blue periods, the average NH_3 concentrations during the Parade Blue
470 period decreased significantly owing to traffic reduction measures (**Fig. 2A c**). These

471 results provide strong evidence that traffic is an important source of NH₃ in Beijing.
472 In addition to period-to-period temporal changes, the mean NH₃ concentration at all
473 road sites was 1.3 and 1.9 times that at all non-road sites during the Parade Blue
474 period and post-Parade Blue period, respectively (**Fig. 2A**). Moreover, during the
475 post-Parade Blue period the measured NH₃ concentrations on the three ring roads
476 ($28.3 \pm 6.4 \mu\text{g m}^{-3}$) were twice those at the rural sites 29 and 30 ($14.0 \pm 1.6 \mu\text{g m}^{-3}$)
477 affected by intense agricultural NH₃ emissions. These results, along with the fact that
478 urban Beijing has a higher relative on-road vehicle density and almost no
479 agricultural activity, suggest that NH₃ emission and transport from local traffic were
480 the main contributors to high urban NH₃ concentrations. Based on a mileage-based
481 NH₃ emission factors of 28 ± 5 (assumed as the lower limit, Chang et al., 2016) and
482 $230 \pm 14.1 \text{ mg km}^{-1}$ (assumed as the upper limit, Liu et al., 2014) for light-duty
483 gasoline vehicles (Liu et al., 2014), a population of 5.61 million vehicles (average
484 mileage $21849 \text{ km vehicle}^{-1} \text{ yr}^{-1}$) in Beijing would produce approximately 3.4-28 kt
485 NH₃ in 2015, which likely declined by up to 4.7-38 t NH₃ day⁻¹ during the Parade
486 Blue period, given that the traffic load decreased by half with the implementation of
487 the odd-and-even car ban policy. For accurately determining NH₃ emissions,
488 however, further study on NH₃ emission factors for vehicles and other sources is
489 warranted.

490

491 *4.3 Impact of meteorological conditions and long-range air transport*

492 Meteorological conditions strongly regulate near-surface air pollutant concentrations
493 (Liu et al., 2015), contributing the largest uncertainties to the evaluation of the
494 effects of emission controls on pollutant reduction. Here we first compared the
495 meteorological data obtained during the Parade Blue period with those from the pre-
496 and/or post-Parade Blue periods in Beijing and other cities over North China. In
497 Beijing, neither wind speed (WS) nor relative humidity (RH) differed significantly
498 between non-Parade Blue (the pre- and post-Parade Blue) and the Parade Blue
499 periods, while temperature (*T*) showed a significant but small decrease with time

500 (Fig. 76). Similarly, there were small and non-significant changes in T , WS and RH
501 between the pre-Parade Blue and Parade Blue periods for North China emission
502 control regions (excluding Beijing) and for other cities non-emission control regions
503 in China. These results suggest that the period-to-period changes in T , WS and RH
504 may have only a minor impact on PM_{2.5}, PM₁₀, NO₂, SO₂ and CO concentrations in
505 the emission control regions (Fig. 3). In contrast, a higher temperature during the
506 Parade Blue period, compared to the post-Parade Blue period, can in part explain the
507 corresponding higher NH₃ concentrations measured at NRS, due to increased NH₃
508 emissions from biological sources such as humans, sewage systems and organic
509 waste in garbage containers (Reche et al., 2012).

510 Surface weather maps of China (Fig. S6, Supplement) and North China (Figs. 87
511 and 9) showed an apparent change of wind field over Beijing and North China its
512 surrounding regions during the Parade Blue period compared with the other two
513 periods. As shown in Fig. 97, Beijing was located at the rear of a high pressure
514 system within the southeast/south flow or in a high-pressure area when the wind was
515 weak ($< 3 \text{ m s}^{-1}$), and at the base of the Siberian high pressure system when
516 influenced by a weak cold front and easterly wind ($> 4 \text{ m s}^{-1}$) in the non-Parade (pre-
517 or post-Parade) Blue and Parade Blue periods, respectively. The former weather
518 condition (non-Parade Blue periods) was conducive to pollutant convergence and the
519 latter (Parade Blue period) was conducive to pollutant dispersion. A further analysis
520 of wind rose plots (Fig. 10a8a) showed that northerly winds, with similar wind
521 speeds, dominated all three periods. Northerly/northwesterly winds in Beijing bring
522 relatively clean air due to a lack of heavy industry in the areas north/northwest of
523 Beijing. Winds during the pre- and post-Parade Blue periods were occasionally from
524 the south, southeast and east of Beijing, where the regions (e.g. Hebei, Henan and
525 Shandong provinces) are characterized by substantially higher anthropogenic
526 emissions of air pollutants such as NH₃, NO_x, SO₂ and aerosols (Zhang et al., 2009,
527 2010; Gu et al., 2012). Also as mentioned earlier, the topography of the mountains to
528 the West and North of Beijing effectively traps the polluted air over Beijing during

529 southerly airflow, suggesting that the southerly wind during non-Parade Blue periods
530 may enhance air pollution in Beijing. Wet scavenging from precipitation, although
531 often important in summer (Yoo et al., 2014), probably played a minor role in
532 changing the concentrations of pollutants given the low and comparable precipitation
533 over Beijing and surrounding areas during the study periods (**Fig. 8**). For example,
534 the total precipitation in Beijing was comparable between the pre-Parade Blue and
535 Parade Blue periods (38.9 versus 34.4 mm) (**Fig. 10b8b**). In addition, we compared
536 daily mean mixing layer height (MLH) in Beijing during the study period (**Fig.**
537 **11a9a**). The daily mean MLH in Beijing was approx. 37% higher during the Parade
538 Blue period (1777 m) than the pre-Parade (1301 m) and post-Parade (1296 m) Blue
539 periods (**Fig. 11b9b**, $p = 0.08$). Since the MLH during Parade Blue was higher than
540 that during non-Parade Blue periods, the horizontal and vertical diffusion conditions
541 during the Parade Blue period were better than the other two periods.

542 Changes in meteorological conditions often lead to changes in regional pollution
543 transport and ventilation. It has been shown that regional transport from neighboring
544 Tianjin, Hebei, Shanxi, and Shandong Provinces can have a significant impact on
545 Beijing's air quality (Meng et al., 2011; Zhang et al., 2015). Model calculations by
546 Zhang et al. (2015) suggested that about half of Beijing's PM_{2.5} pollution originates
547 from sources outside of the city. Trajectory analysis in previous studies revealed that
548 the air mass from south and southeast regions of Beijing led to high concentrations
549 of NH₃, NO_x, PM_{2.5} and secondary inorganic ions during summertime (Ianniello et
550 al., 2010; Wang et al., 2010; Sun et al., 2015). The 72-hour back trajectories during
551 the three measurement periods, shown in **Fig. 410**, were classified into 4 sectors
552 according to air mass pathways: the west pathway over southern Mongolia, western
553 Inner Mongolia, and SinKiang, the north pathway over Inner Mongolia,
554 Heilongjiang and north Hebei Provinces, the east pathway mainly over northeast
555 Hebei province and Tianjin municipality, and the south sector over the south Hebei
556 and Shandong provinces. The results indicated that transport of regional pollution
557 from the south sector occurred during the pre-Parade Blue period (38%) and the

558 post-Parade Blue period (18% for PM_{2.5} sampling days and 29% for NH₃ sampling
559 days) but there was no transport of regional pollution during the Parade Blue period.
560 As the south of Hebei province contains heavily polluting industry and intensive
561 agriculture (Zhang et al., 2009; Sun et al., 2015), the absence of transport of air
562 masses from the south sector is likely at least partly responsible for lower
563 concentrations of the five reported pollutants (PM_{2.5}, PM₁₀, NO₂, SO₂ and CO)
564 during the Parade Blue period. As for NH₃, however, average concentration at NRS
565 were slightly higher in the Parade Blue period than in the post-Parade Blue period
566 (**Fig. 2A c**), indicating that surface levels of NH₃ were less influenced by southern air
567 masses. Much of the airflow travelled over Tianjin municipality during the Parade
568 Blue period (32%) compared to that during the post-Parade Blue period (19%) (**Fig.**
569 **4-10 b, d**), which probably caused the high surface NH₃ concentrations in Beijing.
570 This is because Tianjin, as one of the mega-cities in China, has high NH₃ emissions
571 from livestock and fertilizer application (Zhang et al., 2010).

572 To further diagnose the impacts of meteorology on the surface air quality, we
573 conducted a simulation using the nested GEOS-Chem atmospheric chemistry model
574 driven by the GEOS-FP assimilated meteorological fields at 1/4°×5/16° horizontal
575 resolution covering East Asia (70°E-140°E, 15°N-55°N) (Zhang et al., 2015; 2016).
576 Details of the model emissions and mechanisms have been described in Zhang et al.
577 (2016), focusing on PM_{2.5} concentrations in Beijing during the Asia-Pacific
578 Economic Cooperation Summit (APEC; November 5-11) period. We used
579 anthropogenic emissions from the Multi-Resolution Emission Inventory of China for
580 the year 2010 (MEIC, 2015), except for NH₃ emissions that were taken from the
581 Regional Emission in Asia (REAS-v2) inventory (Kurokawa et al., 2013) with an
582 improved seasonality derived by Zhao et al. (2015).

583 We conducted a standard simulation with fixed anthropogenic emissions for the
584 period of 1 August – 12 September 2015. By fixing anthropogenic emissions in the
585 simulation, the model provides a quantitative estimate of the meteorological impacts
586 alone before and during the Parade Blue period. For the pre-Parade period (1-19

587 August), the model simulated mean $\text{PM}_{2.5}$ concentration is $62 \mu\text{g m}^{-3}$ in Beijing,
588 comparable to the measured values ($59 \mu\text{g m}^{-3}$), but simulated NH_3 concentrations
589 are too low ($3 \mu\text{g m}^{-3}$ vs. $8.2\text{-}31.7 \mu\text{g m}^{-3}$), likely due to missing urban NH_3 sources
590 and the coarse model resolution ($1/4^\circ \times 5/16^\circ$). Here we focus on the model simulated
591 relative changes in pollutant concentrations before and during the Parade Blue period.

592 Model results showed that, without emission controls, the air pollutant
593 concentrations at Beijing in the Parade Blue period relative to the pre-Parade period
594 would be 29% lower for $\text{PM}_{2.5}$, 7% lower for NH_3 , 17% lower for SO_2 , 8% lower for
595 CO and relatively no change for NO_2 (Fig. 12a11a), which can be attributed to the as
596 a result of the different meteorological conditions as discussed above. Thus,
597 Compared compared with meteorological condition changes (MCC), air pollution
598 control measures (PCM) made a greater contribution to air quality improvement
599 (especially for $\text{PM}_{2.5}$, NO_x , and CO) in Beijing during the Parade Blue period (Fig.
600 12b11b).

601 We also conducted two sensitivity simulations ((1) with anthropogenic emissions of
602 NH_3 reduced by 40% over Beijing and by 30% over Hebei and Tianjin; and (2) with
603 all anthropogenic emissions including NH_3 , SO_2 , NO_x , CO, and primary aerosol
604 reduced by 40% over Beijing and by 30% over Hebei and Tianjin) for the Parade
605 Blue period (20 August-3 September) to examine the responses of $\text{PM}_{2.5}$
606 concentrations to emission reductions. We find that the NH_3 emission reduction (by
607 40% over Beijing and by 30% over Hebei and Tianjin) could decrease the mean
608 $\text{PM}_{2.5}$ concentration in Beijing by 12% for the period, compared with 31% simulated
609 $\text{PM}_{2.5}$ reduction if all anthropogenic emissions were reduced by the same amount.
610 This supports our findings on the effectiveness of emission controls during the
611 Parade Blue period as indicated in the measurements, and the high sensitivity of
612 $\text{PM}_{2.5}$ concentration in Beijing to NH_3 sources. Daily mean concentrations of $\text{PM}_{2.5}$
613 and PM_{10} , NO_2 and SO_2 appeared to decrease nonlinearly ($\text{PM}_{2.5}$ and PM_{10}) or
614 linearly (NO_2 and SO_2) as a function of their respective pollutant emission
615 reductions (Fig. b). This is because ambient particulate matter (including $\text{PM}_{2.5}$ and

616 PM₁₀) levels relative to ambient NO_x and SO₂ levels, were affected not only by
617 emission sources but also by secondary aerosol formation, meteorological conditions
618 and regional atmospheric transport (Sun et al., 2016).

619

620 *4.4 Implications for regional air pollution control*

621 Besides Tianjin, Beijing city is surrounded by four provinces, Hebei, Shandong,
622 Henan and Shanxi, which all have major power plants and manufacturing industry.
623 In the INTEX-B emission inventory, the total emissions from these four provinces
624 accounted for 28.7%, 27.9%, 28.3%, and 25.0% of national emissions of PM_{2.5},
625 PM₁₀, SO₂, and NO_x, respectively (Zhang et al., 2009). The ‘Parade Blue’ experience
626 demonstrates that, by taking appropriate but strict coordinated regional and local
627 emission controls, air quality in megacities can be significantly and quickly
628 improved. ~~Nevertheless, we observed nonlinear relationships between emission~~
629 ~~reductions and ambient PM_{2.5} and PM₁₀ levels, which were closely linked to~~
630 ~~variations of meteorological conditions and regional transport, suggesting that~~
631 ~~long term and stricter regional emission controls are necessary for sustainable~~
632 ~~continuous improvement in air quality in megacities.~~

633 China is not the first country to use temporal emission control strategies. In 1996, the
634 city of Atlanta, for example, adopted a series of actions to reduce traffic volume and
635 significantly improved air quality during the Atlanta Olympic Games (Tian and
636 Brimblecombe, 2008; Peel et al., 2010). We also should note that most of these
637 emission control strategies have not been maintained after the Olympic Games. In
638 the long term, temporary emission control strategies will not improve regional air
639 quality conditions and we should seek better ways towards sustainable development.
640 Integrated emission reduction measures are therefore necessary, but meteorological
641 conditions also need to be considered for a sustainable solution, as in Urumqi,
642 northwest China (Song et al., 2015). We therefore recommend further efforts to build
643 on the Parade Blue experience of successful air quality improvement in Beijing and
644 ~~North China~~ ~~the surrounding regions~~ to improve air pollution control policies

645 throughout China and in other rapidly developing countries.
646 Chinese national SO₂ emissions have been successfully reduced by 14% from the
647 2005 level due to an SO₂ control policy (Wang et al., 2014), and nationwide controls
648 on NO_x emissions have been implemented along with the controls on SO₂ and
649 primary particles during 2011-2015. However, there is as yet no regulation or policy
650 that targets national NH₃ emissions. Future emission control policies to mitigate PM
651 and SIA pollution in China should, in addition to focusing on primary particles, NO_x
652 and SO₂, also address NH₃ emission reduction from both agricultural and
653 non-agricultural sectors (e.g. traffic sources) in particular when NH₃ becomes key to
654 PM_{2.5} formation ([Liu et al., 2013; Wu et al., 2016; Xu et al., 2016](#)).

655

656 **Conclusions**

657 We have presented atmospheric concentrations of NH₃, NO₂, PM_{2.5} and associated
658 inorganic water-soluble ions before, during, and after the Parade Blue period
659 measured at thirty-one *in situ* sites in and outside Beijing, and daily concentrations
660 of PM_{2.5}, PM₁₀, NO₂, SO₂ and CO in 291 cities in China during the pre-Parade Blue
661 and Parade Blue periods released by the Ministry of Environmental Protection (MEP)
662 of China. Our unique study examines temporal variations at local and regional scales
663 across China and the relative role of the emission controls and meteorological
664 conditions, as well as the contribution of traffic, to NH₃ levels in Beijing based on
665 the first direct measurements of NH₃ and NO₂ concentrations at road sites. The
666 following major findings and conclusions were reached:

667 The concentrations of NH₃ and NO₂ during the Parade Blue period at the road sites
668 in different areas of Beijing decreased significantly by 12-35% and 34-59%
669 respectively relative to the pre-and post-Parade Blue measurements, while those at
670 the non-road sites showed an increase of 15% for NH₃ and reductions of 33% and
671 42% for NO₂. Positive and significant correlations were observed between NH₃ and
672 NO₂ concentrations measured at road sites. Taken together, these findings indicate
673 that on-road traffic is an important source of NH₃ in the urban Beijing. Daily

674 concentrations of PM_{2.5} and secondary inorganic aerosols (sulfate, ammonium, and
675 nitrate) at the urban and rural sites both decreased during the Parade Blue period,
676 which was closely related to controls of secondary aerosol precursors (NH₃, SO₂ and
677 NO_x) and/or reduced secondary pollutant formation.

678 During the Parade Blue period, daily concentrations of air pollutants (PM_{2.5}, PM₁₀,
679 NO₂, SO₂ and CO) in 291 cities obtained from the national air quality monitoring
680 network showed large and significant reductions of 34-72% in Beijing, small
681 reductions of 1-32% in emission control regioncities of North China (excluding
682 Beijing), and slight increases (6–16%) in non-emission control regionother cities
683 outside North China that in some cases were significant, which reflects the positive
684 effects of emission controls on air quality and suggests that the extent of air quality
685 improvement was directly associated with the reduction intensities of pollutant
686 emissions.

687 A detailed characterization of meteorological parameters and regional transport
688 demonstrated that the good air quality in Beijing during the Parade Blue period was
689 the combined result of emission controls, meteorological effects and the absence of
690 transport of air masses from the south of Beijing. Thus, the net effectiveness of
691 emission controls was investigated further by excluding the effects of meteorology
692 in model simulations, which showed that emission controls can contribute reductions
693 of pollutant concentrations of nearly 60% for PM_{2.5}, 109% for NO₂, 80% for CO,
694 53% for NH₃ and 50% for SO₂. This result showed that emission controls played an
695 dominant role in air quality improvement in Beijing during the Parade Blue period.

696

697 Acknowledgments

698 We thank Lu Li, Hao Tianxiang, Wang Sen and Wang WeiL. Lu, T.X. Hao, S. Wang
699 and W. Wang for their assistance during the field measurements. This work was
700 financially supported by the 973 project (2014BC954200) and the National Natural
701 Science Foundation of China (41425007, 31421092)the China National Funds for

702 Distinguished Young Scientists (Grant 40425007) and the innovative group grant of
703 NSFC (Grant 31421092).

704

705 **Author Contributions**

706 X.L. and F.Z. designed the research. X.L., W.X., W.S., Y.Z., D.Y., D.W. Z.W. and
707 A.T. conducted the research (collected the data and performed the measurements).
708 W.X., W.S., Z.L. and X.L. wrote the manuscript. All authors were involved in the
709 discussion and interpretation of the data as well as the revision on the manuscript.of
710 the study and D.F., J.L.C, K.G., J.W.E., L.Z. and Y.P. commented on the manuscript
711 and interpretation of the data.

712

713 **References**

- 714 Chan, C. K., and Yao, X. H.: Air pollution in mega cities in China. *Atmos. Environ.*,
715 42, 1-42, doi:10.1016/j.atmosenv.2007.09.003, 2008.
- 716 Chang, Y. H., Liu, X. J., Deng, C. R., Dore, A. J., and Zhuang, G. S: Source
717 apportionment of atmospheric ammonia before, during, and after the 2014 APEC
718 summit in Beijing using stable nitrogen isotope signatures, Atmos. Chem. Phys.,
719 16, 11635–11647, doi:10.5194/acp-16-11635-2016, 2016.
- 720 Chen, C., Sun, Y. L., Xu, W. Q., Du, W., Zhou, L. B., Han, T. T., Wang, Q. Q., Fu,
721 P. Q., Wang, Z. F., Gao, Z. Q., Zhang, Q., and Worsnop, D. R.: Characteristics
722 and sources of submicron aerosols above the urban canopy (260 m) in Beijing,
723 China, during the 2014 APEC summit, *Atmos. Chem. Phys.*, 15, 12879-12895,
724 doi:10.5194/acp-15-12879-2015, 2015.
- 725 Chen, R. S., De Sherbinin, A., Ye, C., and Shi, G. Q.: China's Soil Pollution: Farms
726 on the Frontline, *Science*, 344, 691-691, 2014.
- 727 Davis, D. L., Bell, M. L., and Fletcher, T.: A Look Back at the London Smog of 1952
728 and the Half Century Since, *Environ. Health Persp.*, 110, A734-A735, 2002.
- 729 de Gouw, J. A., Welsh-Bon, D., Warneke, C., Kuster, W. C., Alexander, L., Baker, A.
730 K., Beyersdorf, A. J., Blake, D. R., Canagaratna, M., Celada, A. T., Huey, L. G.,

- 731 Junkermann, W., Onasch, T. B., Salcido, A., Sjostedt, S. J., Sullivan, A. P., Tanner,
732 D. J., Vargas. O., Weber, R. J., Worsnop, D. R., Yu, X. Y., and Zaveri, R.:
733 Emission and chemistry of organic carbon in the gas and aerosol phase at a
734 sub-urban site near Mexico City in March 2006 during the MILAGRO study,
735 Atmos. Chem. Phys., 9, 3425-3442, 2009.
- 736 Draxler, R. R., and Hess, G: Description of the HYSPLIT4 modeling system, Air
737 Resources Laboratory, Silver Spring, Maryland,1997.
- 738 Draxler, R., Stunder, B., Rolph, G., Stein, A., and Taylor, A.: HYSPLIT4 user's guide,
739 version 4, report, NOAA, Silver Spring, Md, 2012.
- 740 EEA (European Environment Agency): Air Quality in Europe-2011 Report,
741 Technical Report 12/2011, EEA, Kopenhagen, 2011.
- 742 Gu, B. J., Ge, Y., Ren, Y., Xu, B., Luo, W. D., Jiang, H., Gu, B. H., and Chang, J.:
743 Atmospheric reactive nitrogen in China: Sources, recent trends, and damage costs.
744 Environ. Sci. Technol., 46, 9240-9247, doi:10.1021/es301446g, 2012.
- 745 Guo, J. H., Liu, X. J., Zhang, Y., Shen, J. L., Han, W. X., Zhang, W. F., Christie, P.,
746 Goulding, K., Vitousek, P., Zhang, F. S.: Significant soil acidification in major
747 Chinese croplands, Science, 327, 1008-1010, doi: 10.1126/science.1182570, 2010.
- 748 Haagen-Smit, A.J.: Chemistry and physiology of Los Angeles smog, Ind. Eng.
749 Chem., 44, 1342-1346, doi:10.1021/ie50510a045, 1952.
- 750 Holzworth, G. C.: Estimates of mean maximum mixing depths in the contiguous
751 United States, Monthly Weather Review, 92, 235-242, 1964.
- 752 Holzworth, G. C.: Mixing depths, wind speeds and air pollution potential for selected
753 locations in the United States, Journal of Applied Meteorology, 6,1039-1044,
754 1967.
- 755 Huang, R.-J., Zhang, Y., Bozzetti, C., Ho, K.-F., Cao, J.-J., Han, Y., Daellenbach, K.
756 R., Slowik, J. G., Platt, S. M., Canonaco, F., Zotter, P., Wolf, R., Pieber, S. M.,
757 Bruns, E. A., Crippa, M., Ciarelli, G., Piazzalunga, A., Schwikowski, M.,
758 Abbaszade, G., Schnelle-Kreis, J., Zimmermann, R., An, Z., Szidat, S.,
759 Baltensperger, U., Haddad, I. E., and Prevot, A. S. H.: High secondary aerosol

- 760 contribution to particulate pollution during haze events in China, *Nature*, 514,
761 218-222, 2014.
- 762 Ianniello, A., Spataro, F., Esposito, G., Allegrini, I., Rantica, E., Ancora, M. P., Hu,
763 M., and Zhu, T.: Occurrence of gas phase ammonia in the area of Beijing (China),
764 *Atmos. Chem. Phys.*, 10, 9487-9503, doi:10.5194/acp-10-9487-2010, 2010.
- 765 Kang, Y. N., Liu, M. X., Song, Y., Huang, X., Yao, H., Cai, X. H., Zhang, H. S.,
766 Kang, L., Liu, X. J., Yan, X. Y., He, H., Zhang, Q., Shao, M., and Zhu, T.:
767 High-resolution ammonia emissions inventories in China from 1980 to 2012,
768 *Atmos. Chem. Phys.*, 16, 2043-2058, doi: 10.5194/acp-16-2043-2016, 2016.
- 769 Kean, A. J., and Harley, R. A.: On-road measurement of ammonia and other motor
770 vehicle exhaust emissions, *Environ. Sci. Technol.*, 34, 3535-3539,
771 doi:10.1021/es991451q, 2000.
- 772 Kean, A. J., Littlejohn, D., Ban-Weiss, G. A., Harley, R. A., Kirchstetter, T. W., and
773 Lunden, M. M.: Trends in on-road vehicle emissions of ammonia, *Atmos.*
774 *Environ.*, 43, 1565-1570, doi: 10.1016/j.atmosenv.2008.09.085, 2009.
- 775 Liu, T. Y., Wang, X. M., Wang, B. G., Ding, X., Deng, W., Lu, S. J., and Zhang, Y.
776 L.: Emission factor of ammonia (NH_3) from on-road vehicles in China: tunnel
777 tests in urban Guangzhou, *Environ. Res. Lett.*, 9, 064027,
778 doi:10.1088/1748-9326/9/6/064027, 2014.
- 779 Liu, Z. R., Hu, B., Wang, L. L., Wu, F. K., Gao, W. K., and Wang, Y. S.: Seasonal
780 and diurnal variation in particulate matter (PM_{10} and $\text{PM}_{2.5}$) at an urban site of
781 Beijing: analyses from a 9-year study, *Environ. Sci. Pollut. Res.*, 22, 627-642,
782 doi:10.1007/s11356-014-3347-0, 2015.
- 783 Lu, Y. L., Song, S., Wang, R. S., Liu, Z. Y., Meng, J., Sweetman, A. J., Jenkins, A.,
784 Ferrier, R. C., Li, H., Luo, W., and Wang, T. Y.: Impacts of soil and water
785 pollution on food safety and health risks in China, *Environ. Int.*, 77, 5-15,
786 doi:10.1016/j.envint.2014.12.010, 2015.
- 787 | [Multi-Resolution Emission Inventory of China for the year 2010, Available at:](#)
788 | [http://meicmodel.org \(accessed 1 February 2015\).](http://meicmodel.org)

- 789 Meng, Z. Y., Lin, W. L., Jiang, X. M., Yan, P., Wang, Y., Zhang, Y. M., Jia, X. F.,
790 and Yu, X. L.: Characteristics of atmospheric ammonia over Beijing, China,
791 Atmos. Chem. Phys., 11, 6139-6151, doi:10.5194/acp-11-6139-2011, 2011.
- 792 MEPC (Ministry of Environmental Protection of the People's Republic of China):
793 Ambient air quality standards (GB3095–2012), Available at:
794 <http://www.mep.gov.cn/> (accessed 29 February 2012).
- 795 Pan, Y.P., Tian, S.L., Liu, D.W., Fang, Y.T., Zhu, X.Y., Zhang, Q., Zheng, B.,
796 Michalski, G., and Wang, Y.S.: Fossil fuel combustion-related emissions
797 dominate atmospheric ammonia sources during severe haze episodes: evidence
798 from ¹⁵N stable isotope in size-resolved aerosol ammonium, Environ. Sci.
799 Technol., 50, 8049-8056, doi:10.1021/acs.est.6b00634, 2016.
- 800 Parrish, D. D., Singh, H. B., Molina, L., and Madronich, S.: Air quality progress in
801 North American megacities: a review, Atmos. Environ., 45, 7015-7025,
802 doi:10.1016/j.atmosenv.2011.09.039, 2011.
- 803 Peel, J. L., Klein, M., Flanders, W. D., Mulholland, J. A., Tolbert, P. E., and
804 Committee, H. H. R.: Impact of improved air quality during the 1996 summer
805 Olympic games in Atlanta on multiple cardiovascular and respiratory
806 outcomes, Research Report, 148, 3-23, discussion 25-33, 2010.
- 807 Reche, C., Viana, M., Pandolfi, M., Alastuey, A., Moreno, T., Amato, F., Ripoll, A.,
808 and Querol, X.: Urban NH₃ levels and sources in a Mediterranean environment,
809 Atmos. Environ., 57, 153-164, doi:10.1016/j.atmosenv.2012.04.021, 2012.
- 810 Shen, J. L., Tang, A. H., Liu, X. J., Kopsch, J., Fangmeier, A., Goulding, K., and
811 Zhang, F. S.: Impacts of pollution controls on air Quality in Beijing during the
812 2008 Olympic Games, J. Environ. Qual., 40, 37-45, doi:10.2134/jeq2010.0360,
813 2011.
- 814 Song, W., Chang, Y. H., Liu, X. J., Li, K. H., Gong, Y. M., He, G. X., Wang, X. L.,
815 Christie, P., Zheng, M., Dore, A. J., and Tian, C. Y.: A multiyear assessment of air
816 quality benefits from China's emerging shale gas revolution: Urumqi as a case
817 study, Environ. Sci. Technol., 49, 2066-2072, doi:10.1021/es5050024, 2015.

- 818 Sun, Y. L., Zhuang, G. S., Tang, A. H., Wang, Y., and An, Z. H.: Chemical
819 Characteristics of PM_{2.5} and PM₁₀ in haze-fog episodes in Beijing, Environ. Sci.
820 Technol., 40, 3148-3155, doi:10.1021/es051533g, 2006.
- 821 Sun, Y. L., Wang, Z. F., Du, W., Zhang, Q., Wang, Q. Q., Fu, P. Q., Pan, X. L., Li,
822 J., Jayne, J., and Worsnop, D. R.: Long-term real-time measurements of aerosol
823 particle composition in Beijing, China: seasonal variations, meteorological effects,
824 and source analysis, Atmos. Chem. Phys., 15, 10149-10165,
825 doi:10.5194/acp-15-10149-2015, 2015.
- 826 ~~Sun, Y. L., Wang, Z. F., Wild, O., Xu, W. Q., Chen, C., Fu, P. Q., Du, W., Zhou,~~
827 ~~L.B., Zhang, Q., Han, T. T., Wang, Q. Q., Pan, X. L., Zheng, H. T., Li, J., Guo, X.~~
828 ~~F., Liu, J. G., and Worsnop, D. R.: “APEC Blue”: Secondary aerosol reductions~~
829 ~~from emission controls in Beijing, Sci. Rep., 6, 20668, doi: 10.1038/srep20668,~~
830 ~~2016.~~
- 831 Tang, G., Zhu, X., Hu, B., Xin, J., Wang, L., Münkel, C., Mao, G., and Wang, Y.:
832 Impact of emission controls on air quality in Beijing during APEC 2014:
833 lidarceilometer observations, Atmos. Chem. Phys., 15, 12667-12680,
834 doi:10.5194/acp-15-12667-2015, 2015.
- 835 Tao, Y., Yin, Z., Ye, X. N., Ma, Z., and Che, J. M.: Size distribution of
836 water-soluble inorganic ions in urban aerosols in Shanghai, Atmos. Pollut. Res., 5,
837 639-647, doi:10.5094/APR.2014.073, 2014.
- 838 Tian, Q. W., and Brimblecombe, P.: Managing air in Olympic cities, American
839 Journal of Environmental Sciences, 4, 439-444, 2008.
- 840 Wang, S. X., Xing, J., Zhao, B., Jang, C., Hao, J. M. Effectiveness of national air
841 pollution control policies on the air quality in metropolitan areas of China. J. Environ. Sci., 26, 13-22, doi: 10.1016/S1001-0742(13)60381-2, 2014.
- 843 Wang, T., Nie, W., Gao, J., Xue, L. K., Gao, X. M., Wang, X. F., Qiu, J., Poon, C.
844 N., Meinardi, S., Blake, D., Wang, S. L., Ding, A. J., Chai, F. H., Zhang, Q. Z.,
845 and Wang, W. X.: Air quality during the 2008 Beijing Olympics: secondary
846 pollutants and regional impact, Atmos. Chemis. Phys., 10, 7603-7615,

- 847 doi:10.5194/acp-10-7603-2010, 2010.
- 848 Wang, W. T., Primbs, T., Tao, S., and Simonich, S. L. M.: Atmospheric Particulate
849 Matter Pollution during the 2008 Beijing Olympics, Environ Sci Technol., 43,
850 5314-5320, 2009.
- 851 Wang, Y., Zhuang, G., Tang, A., Yuan, H., Sun, Y., Chen, S., and Zheng, A.: The
852 ion chemistry of PM_{2.5} aerosol in Beijing, Atmos. Environ., 39, 3771-3784,
853 doi:10.1016/j.atmosenv.2005.03.013, 2005.
- 854 Wu, Y., Gu, B., Erisman, J. W., Reis, S., Fang, Y., Lu, X., and Zhang, X.: PM_{2.5}
855 pollution is substantially affected by ammonia emissions in China, Environ.
856 Pollut., 218, 86-94, doi: org/10.1016/j.envpol.2016.08.027, 2016.
- 857 Xu, W., Zheng, K., Liu, X. J., Meng, L. M., Huaitalla, M. R., Shen, J. L., Hartung,
858 E., Gallmann, E., Roelcke, M., and Zhang, F. S.: Atmospheric NH₃ dynamics at a
859 typical pig farm in China and their implications, Atmos. Pollut. Res., 5, 455-463,
860 doi:10.5094/APR.2014.053, 2014.
- 861 Xu, W., Luo, X. S., Pan, Y. P., Zhang, L., Tang, A. H., Shen, J. L., Zhang, Y., Li, K.
862 H., Wu, Q. H., Yang, D. W., Zhang, Y. Y., Xue, J., Li, W. Q., Li, Q. Q., Tang, L.,
863 Lu, S. H., Liang, T., Tong, Y. A., Liu, P., Zhang, Q., Xiong, Z. Q., Shi, X. J., Wu,
864 L. H., Shi, W. Q., Tian, K., Zhong, X. H., Shi, K., Tang, Q. Y., Zhang, L. J.,
865 Huang, J. L., He, C. E., Kuang, F. H., Zhu, B., Liu, H., Jin, X., Xin, Y. J., Shi, X.
866 K., Du, E. Z., Dore, A. J., Tang, S., Collett, J. L., Goulding, K., Sun, Y. X., Ren, J.,
867 Zhang, F. S., and Liu, X. J.: 2015. Quantifying atmospheric nitrogen deposition
868 through a nationwide monitoring network across China. Atmos. Chem. Phys, 15,
869 12345-12360, doi:10.5194/acp-15-12345-2015, 2015.
- 870 Xu, W., Wu, Q. H., Liu, X. J., Tang, A. H., Dore, A. J., and Heal, M. R.:
871 Characteristics of ammonia, acid gases, and PM_{2.5} for three typical land-use types
872 in the North China Plain, Environ. Sci. Pollut. Res., 23, 1158-1172,
873 doi:10.1007/s11356-015-5648-3, 2016.
- 874 Yoo, J. M., Lee, Y. R., Kim, D., Jeong, M. J., Stockwell, W. R., Kundu, P. K., Oh, S.
875 M., Shin, D. B., Lee, S. J. New indices for wet scavenging of air pollutants (O₃,

- 876 CO, NO₂, SO₂, and PM₁₀) by summertime rain. *Atmos. Environ.*, 82, 226-237,
877 doi:10.1016/j.atmosenv.2013.10.022, 2014.
- 878 Zhang, L., Liu, L. C., Zhao, Y. H., Gong, S. L., Zhang, X. Y., Henze, D. K., Capps,
879 S. L., Fu, T. M., Zhang, Q., and Wang, Y. X.: Source attribution of particulate
880 matter pollution over North China with the adjoint method, *Environ. Res. Lett.*, 10,
881 084011, doi:10.1088/1748-9326/10/8/084011, 2015.
- 882 [Zhang, L., Shao, J. Y., Lu, X., Zhao, Y. H., Hu, Y. Y., Henze, D. K., Liao, H., Gong,](#)
883 [S. L., and Zhang, Q.: Sources and processes affecting fine particulate matter](#)
884 [pollution over North China: an adjoint analysis of the Beijing APEC period,](#)
885 [Environ. Sci. Technol., 50, 16, 8731–8740, 2016.](#)
- 886 Zhang, Q., Streets, D. G., Carmichael, G. R., He, K. B., Huo, H., Kannari, A.,
887 Klimont, Z., Park, I. S., Reddy, S., Fu, J. S., Chen, D., Duan, L., Lei, Y., Wang, L.
888 T., and Yao, Z. L.: Asian emissions in 2006 for the NASA INTEX-B mission.
889 *Atmos. Chem. Phys.*, 9, 5131-5153, 2009.
- 890 Zhang, T., Cao, J. J., Tie, X. X., Shen, Z. X., Liu, S. X., Ding, H., Han, Y. M., Wang,
891 G. H., Ho, K. F., Qiang, J., and Li, W. T.: Water-soluble ions in atmospheric
892 aerosols measured in Xi'an, China: seasonal variations and sources, *Atmos. Res.*,
893 102, 110-119, doi:10.1016/j.atmosres.2011.06.014, 2011.
- 894 Zhang, Y., Dore, A. J., Ma, L., Liu, X. J., Ma, W. Q., Cape, J. N., and Zhang, F. S.:
895 Agricultural ammonia emissions inventory and spatial distribution in the North
896 China Plain, *Environ. Pollut.*, 158, 490-501, doi:10.1016/j.envpol.2009.08.033,
897 2010.
- 898 Zhang, Y. L., and Cao, F.: Fine particulate matter (PM_{2.5}) in China at a city level. *Sci.*
899 *Rep.*, 5, 14884, doi:10.1038/srep14884, 2015.
- 900 Zhao, B., Wang, P., Ma, J. Z., Zhu, S., Pozzer, A., and Li, W.: A high-resolution
901 emission inventory of primary pollutants for the Huabei region, China, *Atmos. Chem.*
902 *Phys.*, 12, 481-501, doi:10.5194/acp-12-481-2012, 2012.

903

904 **Figure captions**

905 **Fig. 1.** Maps showing the thirty-one monitoring sites, the Beijing municipality (the
906 areas within the blue line, and the surrounding regions. Also shown are locations of
907 Tiananmen, and the 3rd, 4th, 5th and 6th ring roads.

908 **Fig. 2.** Concentrations of NH₃ (**A**) and NO₂ (**B**) during the monitoring periods at
909 different observation scales: concentrations at 31 (NH₃) or 17 (NO₂) sites (a),
910 averaged concentrations for the sites ~~within inside~~ the 6th ring ~~(R)~~ road (~~SWRRd~~),
911 outside the 6th ring ~~(R)~~ road ~~(Rd)~~ ~~but in Beijing (SOI)~~ and outside Beijing (~~SOB~~)-(b),
912 averaged concentrations for the sites on the 3rd, 4th and/or 5th ring roads and non-road
913 sites (NRS) (c) ~~(one asterisk on bars denotes significant difference at $p<0.05$, two
914 asterisks on bars denote significant difference at $p<0.01$).~~

915 **Fig. 3.** Comparison of PM_{2.5}, PM₁₀, NO₂, SO₂ and CO concentrations between
916 ~~non-Parade Blue periods (the pre- and post-Parade Blue periods)~~ and Parade Blue
917 periods at Beijing, cities in ~~North China emission control regions~~ (excluding Beijing)
918 and other cities in ~~China non-emission control regions~~ (one asterisk on bars denotes
919 significant difference at $p<0.05$, two asterisks on bars denote significant difference at
920 $p<0.01$).

921 ~~Fig. 4. 72 h backward trajectories for 100 m above ground level in Beijing city
922 during the pre Parade Blue period (1 to 19 August 2015) (a), the Parade Blue period
923 (20 August to 3 September 2015) (b), and the post Parade Blue period (4 to 30
924 September 2015) (c), and for sampling duration of NH₃ (8 to 19 September 2015) in
925 the post Parade Blue period (d).~~

926 **Fig. 54.** Daily values of AQI and daily ratios of CO to SO₂ concentrations and of
927 PM_{2.5} to CO concentrations in Beijing during the pre-Parade Blue ~~and~~, Parade Blue
928 and post-Parade Blue periods.

929 **Fig. 65.** Correlations between NO₂ and NH₃ concentrations measured on the 5th ring
930 road in Beijing during the pre-Parade Blue, Parade Blue, and post-Parade Blue
931 periods.

932 **Fig. 76.** Comparison of wind speed (WS), relative humidity (RH) and temperature (T)
933 between the Parade Blue period and non-Parade Blue periods (the pre-Parade Blue
934 period, and the post-Parade Blue periods) in Beijing, and between the Parade Blue
935 and pre-Parade Blue periods in North China emission control regions (excluding
936 Beijing) and other cities in China non-emission control regions (two asterisk on bars
937 denotes significant difference at $p<0.01$).

938 **Fig. 8.** 10 m mean wind field and (vector) and sea surface pressure (white) plotted on
939 the precipitation field during the pre-Parade Blue period (left), Parade Blue period
940 (right) and post-Parade Blue period (below).

941 **Fig. 97.** Mean sea level pressure (unit: hPa) and mean wind field at 10 m height (unit:
942 m/s) during the pre-Parade Blue (a), Parade Blue (b) and post-Parade Blue (c)
943 periods in Beijing and North China. The color bar denotes air pressure (unit: hPa)
944 and arrows reflect wind vector (unit: $m s^{-1}$).

945 **Fig. 108.** The frequency distributions of wind directions and speeds (color
946 demarcation) (a), and daily precipitation amount (b) in Beijing city during the
947 pre-Parade Blue, Parade Blue, and post-Parade Blue periods.

948 **Fig. 119.** Dynamics of daily mean atmospheric mixing layer height (MLH) in
949 Beijing from 3 August to 30 September 2015 (a) and comparison of MLH means
950 during the pre-Parade Blue, Parade Blue and post-Parade Blue periods (b).

951 **Fig. 10.** 72-h backward trajectories for 100 m above ground level in Beijing city
952 during the pre-Parade Blue period (1 to 19 August 2015) (a), the Parade Blue period
953 (20 August to 3 September 2015) (b), and the post-Parade Blue period (4 to 30
954 September 2015) (c), and for sampling duration of NH_3 (8 to 19 September 2015) in
955 the post-Parade Blue period (d).

956 **Fig. 12.11** Effect of meteorological condition change (MCC, simulated by a
957 GEOS-Chem chemical transport model) and pollution control measures (PEM,
958 measured by monitoring stations) to relative concentrations of CO, NO_2 , SO_2 , NH_3
959 and $PM_{2.5}$ (Aa) and relative contribution of MCC and PEC to major pollutant
960 mitigation (Bb) in Beijing during the Parade Blue period.

961 | **Fig. 13.** The correlations between emission reductions and air concentrations for (a)
962 | PM_{2.5}; (b) PM₁₀; (c) NO₂; and (d) SO₂.

963 |

964 |

965 |

966 |

967 |

968 |

969 |

970 |

971 |

972 |

973 |

974 |

975 |

976 |

977 |

978 |

979 |

980 |

981 |

982 |

983 |

984 |

985 |

986 |

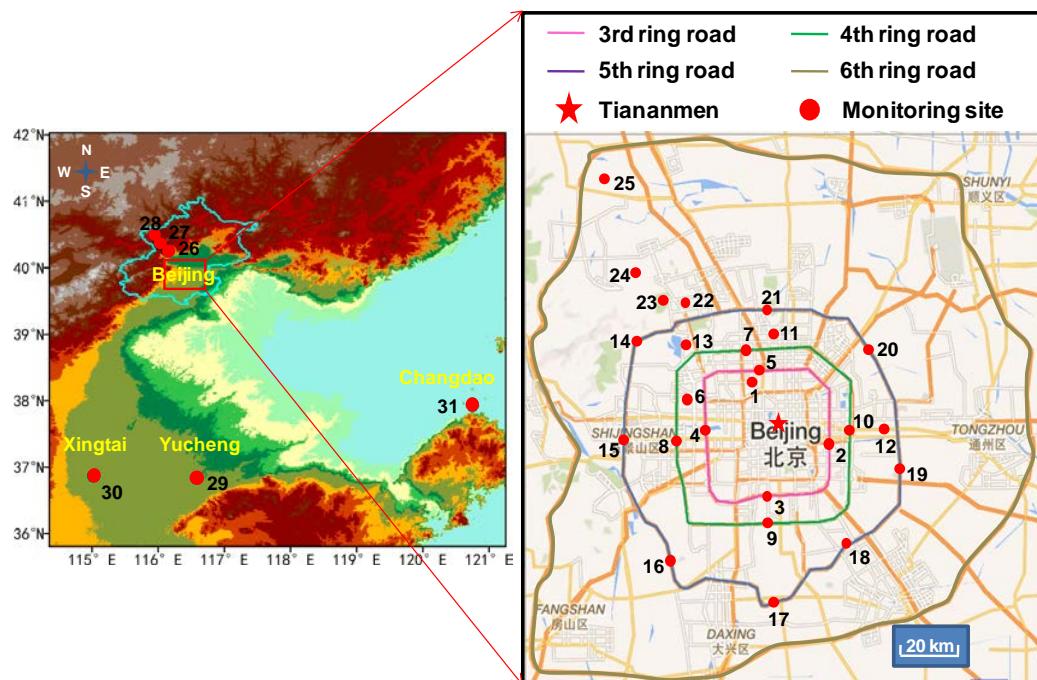
987 |

988 |

989 |

990

991 **Figure 1**



992

993

994

995

996

997

998

999

1000

1001

1002

1003

1004

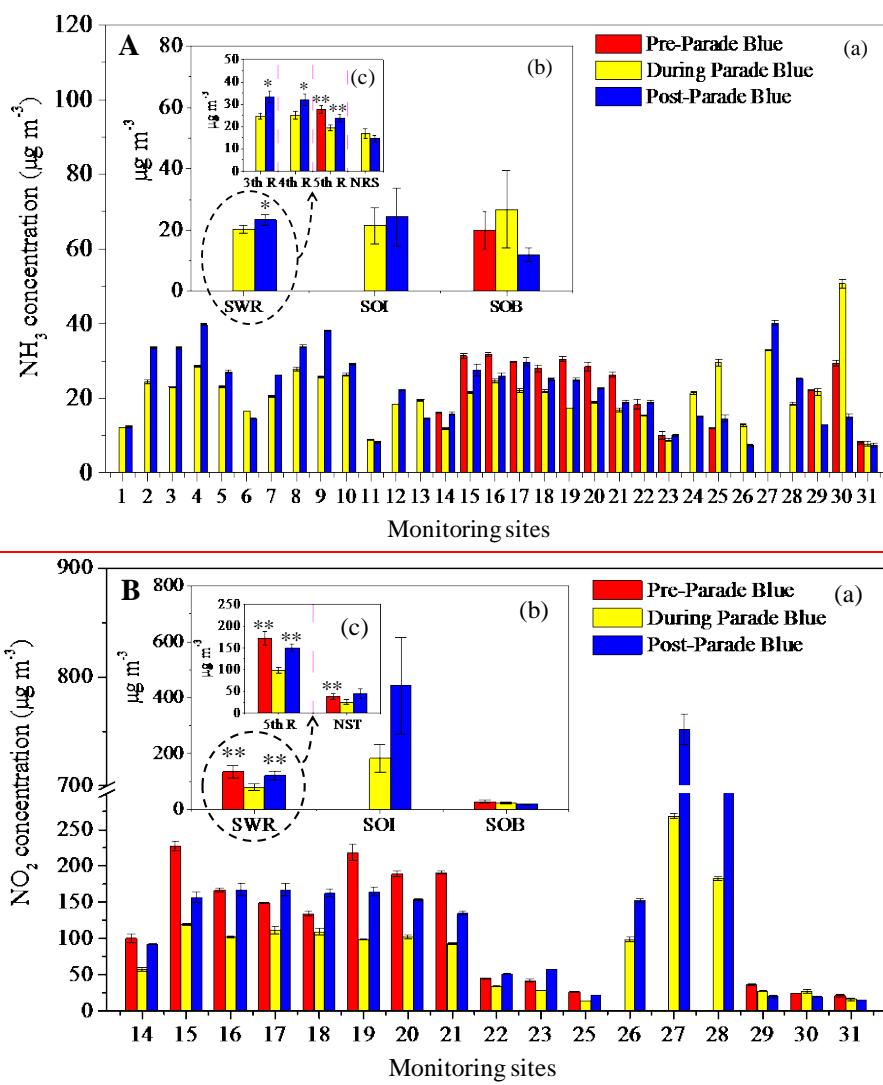
1005

1006

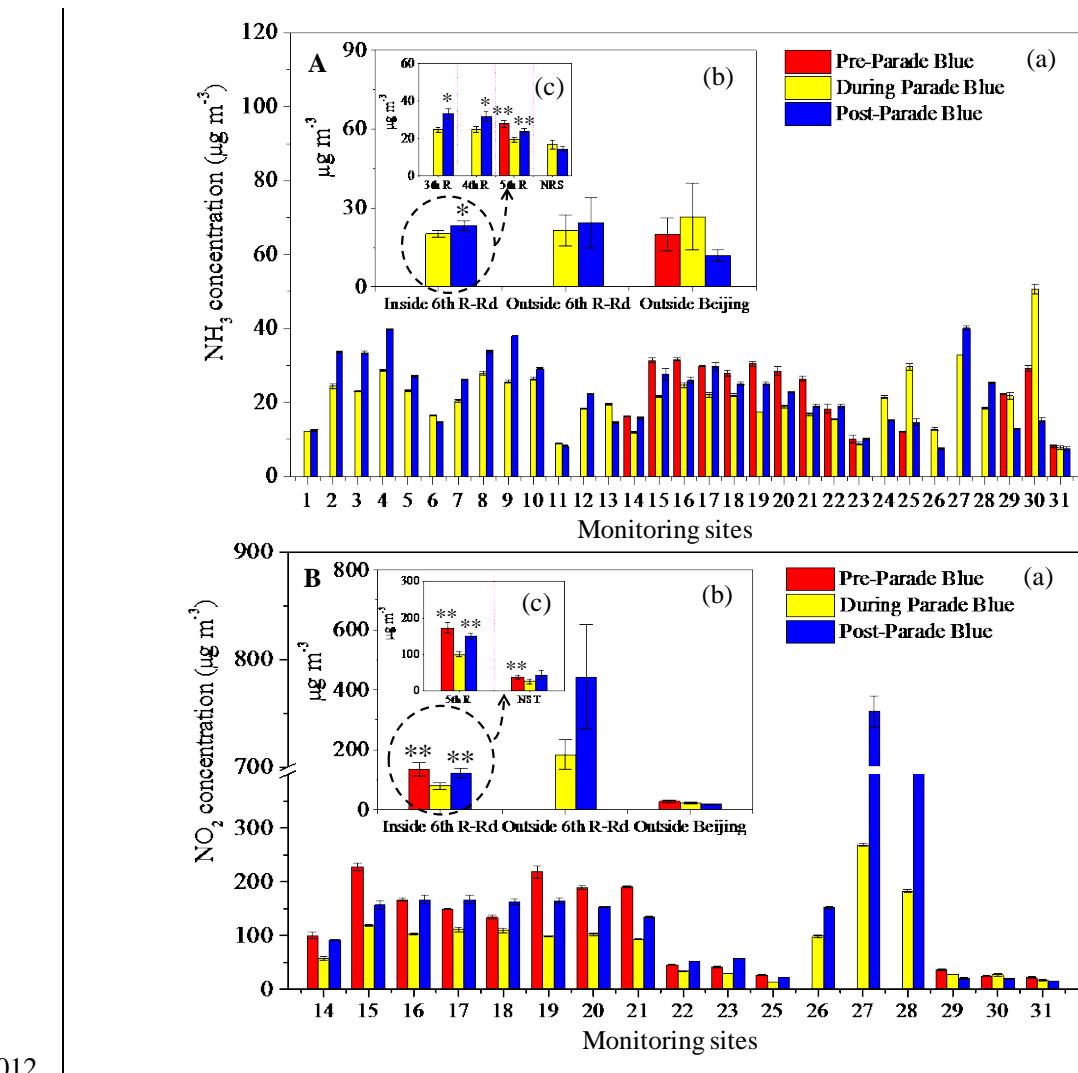
1007

1008

1009

Figure 2

1011



1012

1013

1014

1015

1016

1017

1018

1019

1020

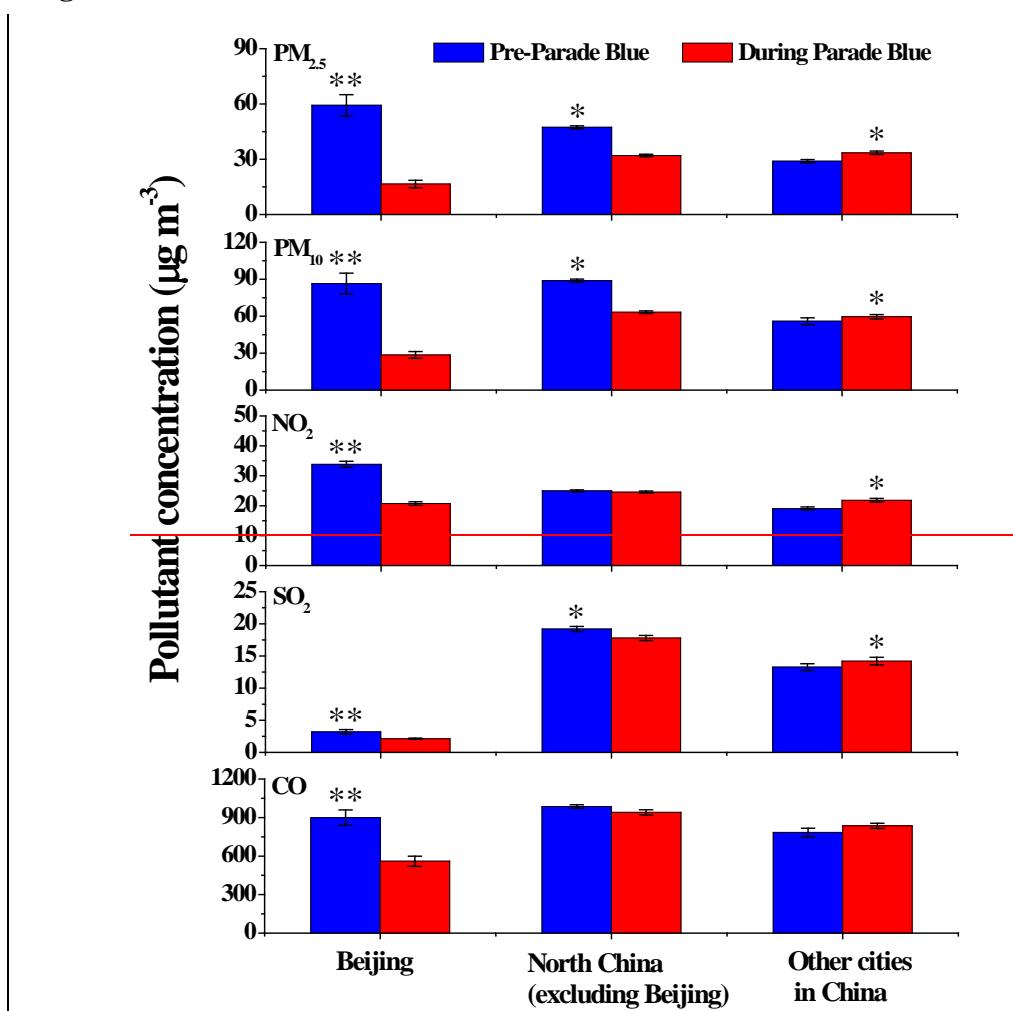
1021

1022

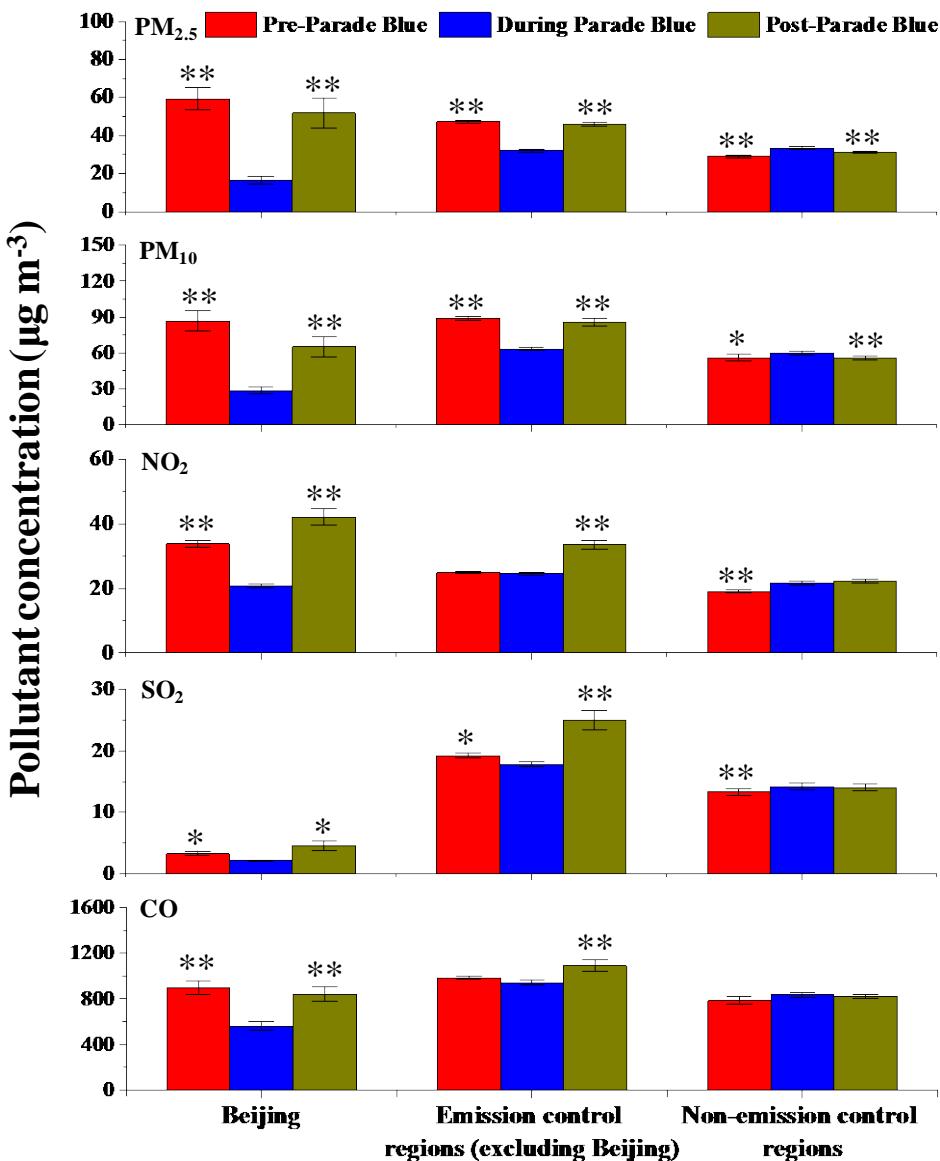
1023

1024

1025

Figure 3

1026



1027

1028

1029

1030

1031

1032

1033

1034

1035

1036

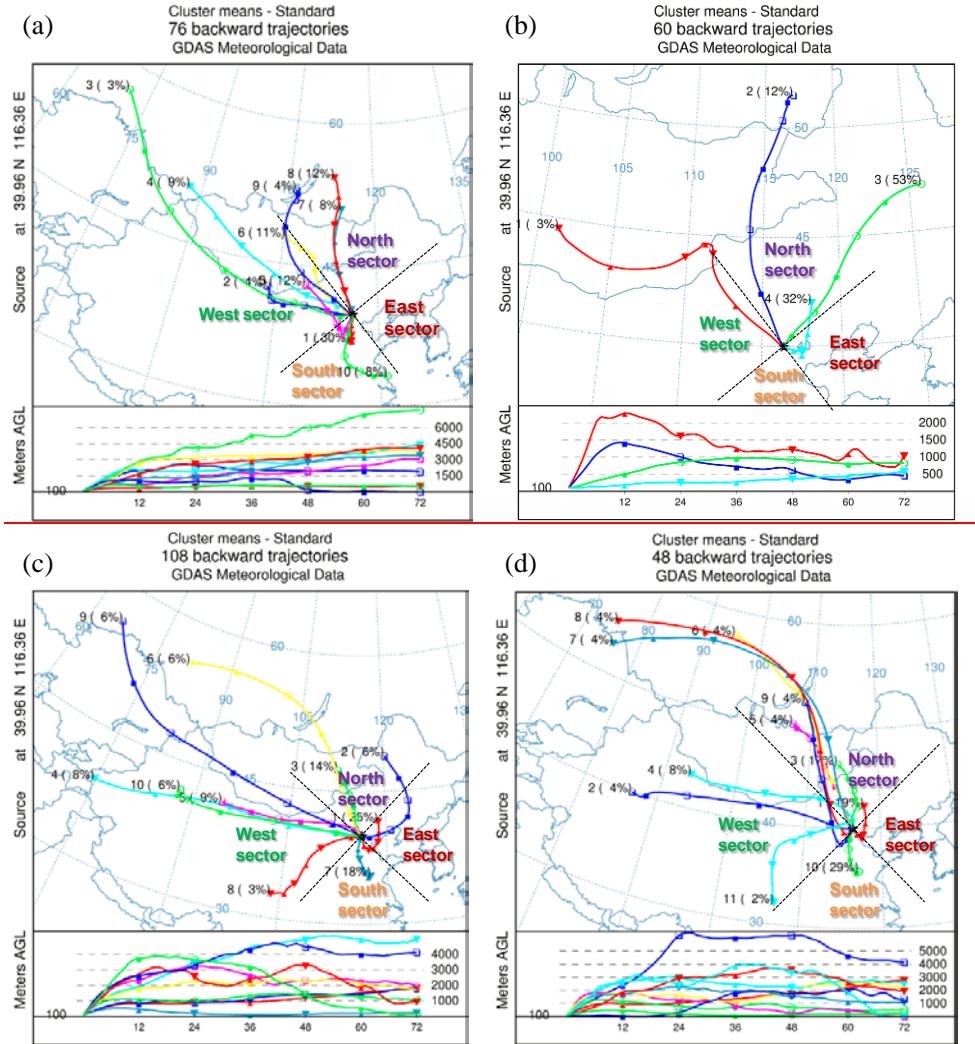
1037

1038

1039

1040

Figure 4



1041

1042

1043

1044

1045

1046

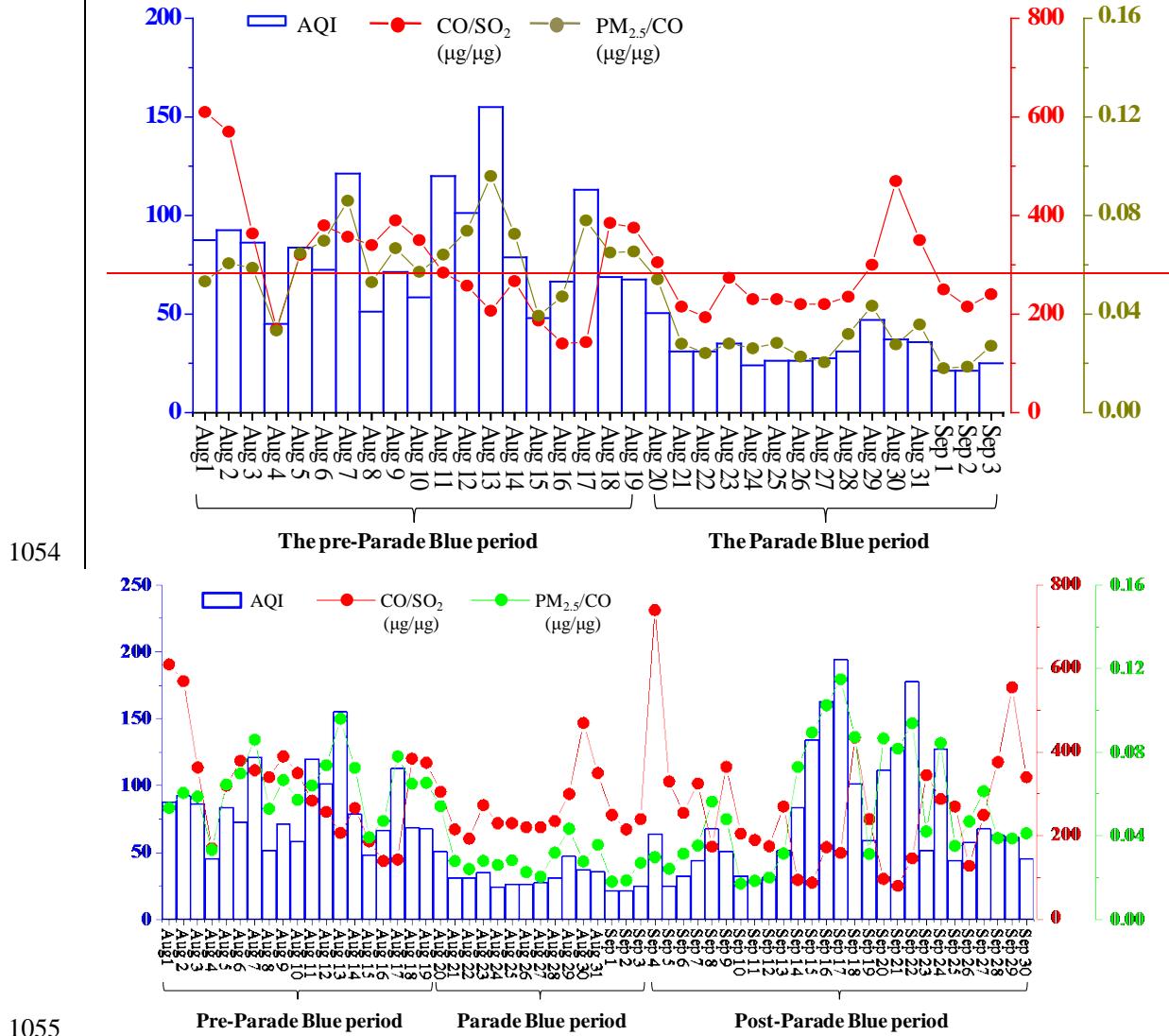
1047

1048

1049

1051

1052

Figure 54

1054

1055

1056

1057

1058

1059

1060

1061

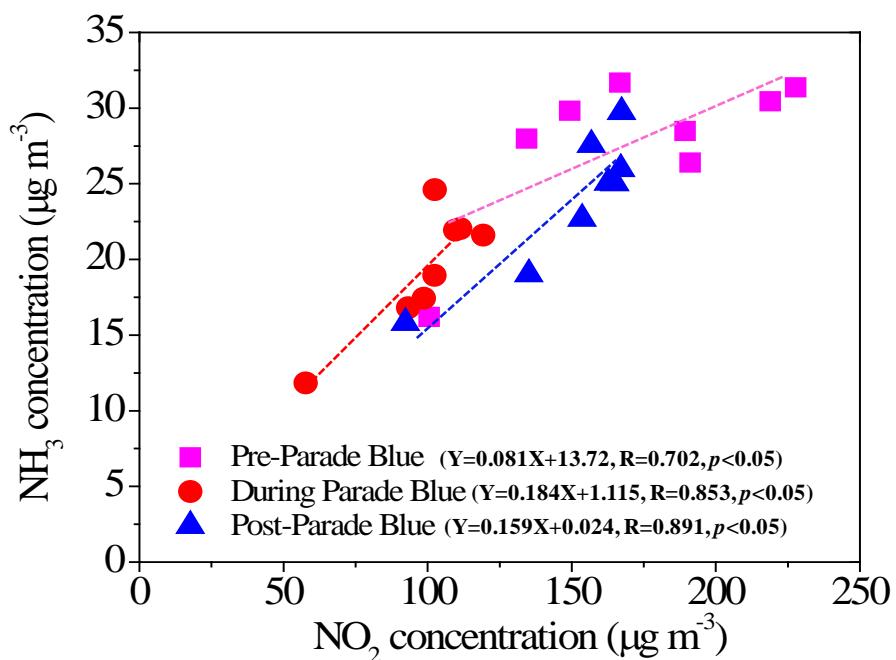
1062

1063

1064

1065

1066

Figure 65

1067

1068

1069

1070

1071

1072

1073

1074

1075

1076

1077

1078

1079

1080

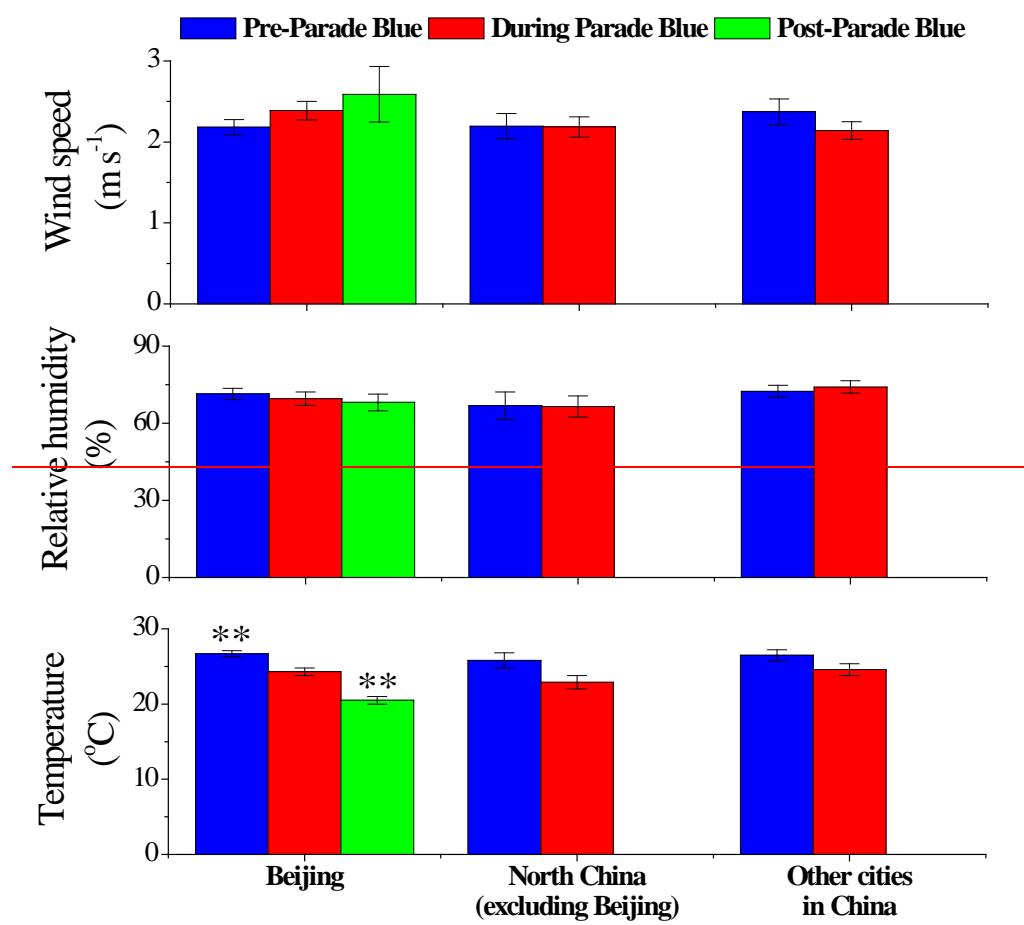
1081

1082

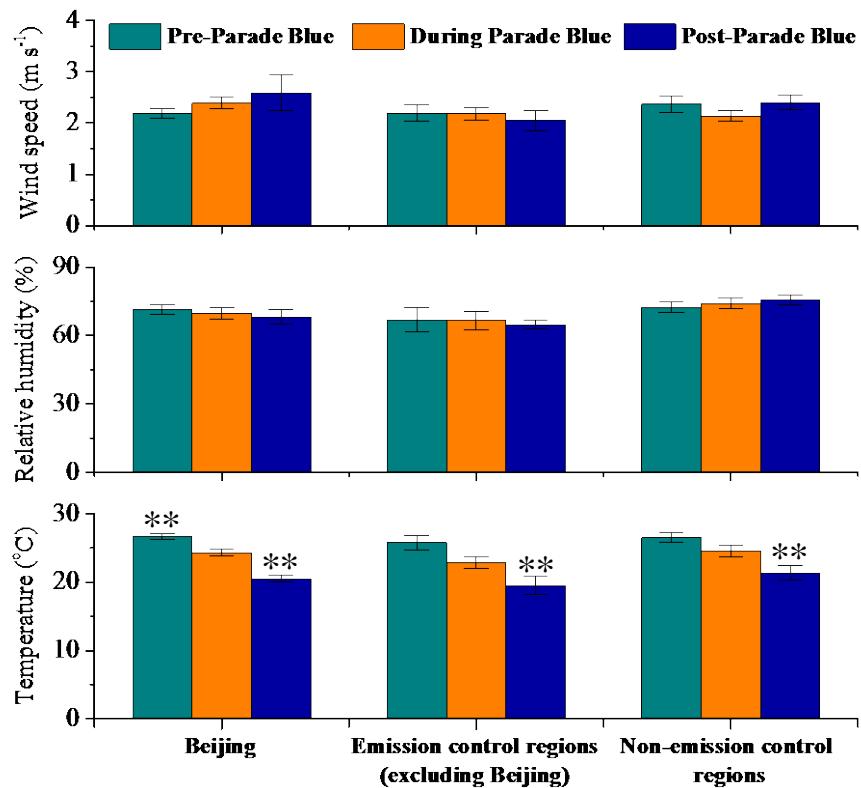
1083

1084

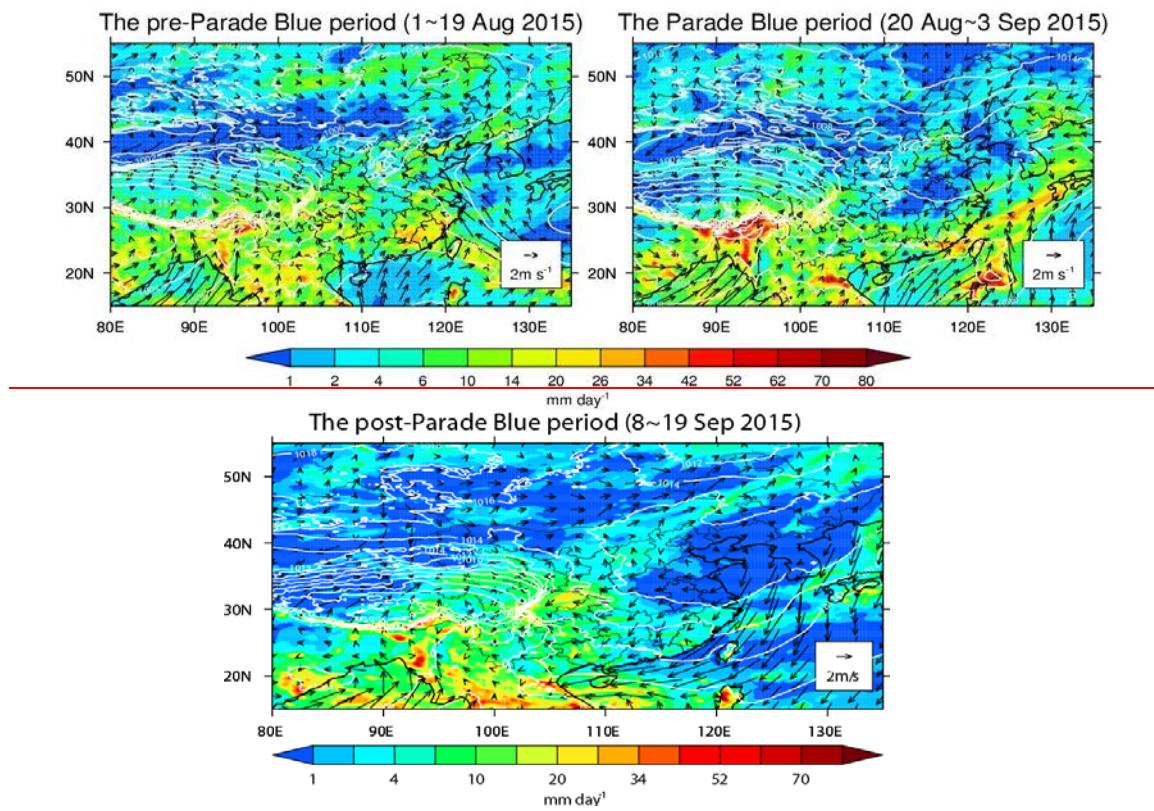
1085

Figure 76

1086



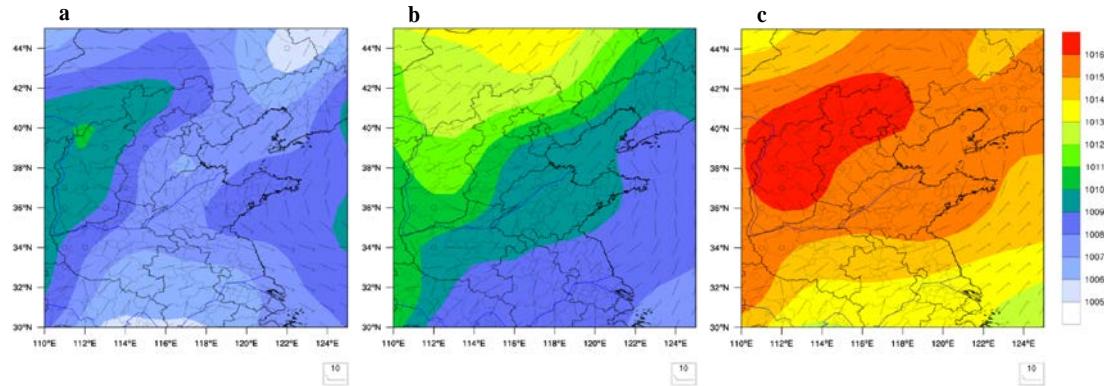
1087

Figure 8

1089

1090

1091 | **Figure 97**



1092

1093

1094

1095

1096

1097

1098

1099

1100

1101

1102

1103

1104

1105

1106

1107

1108

1109

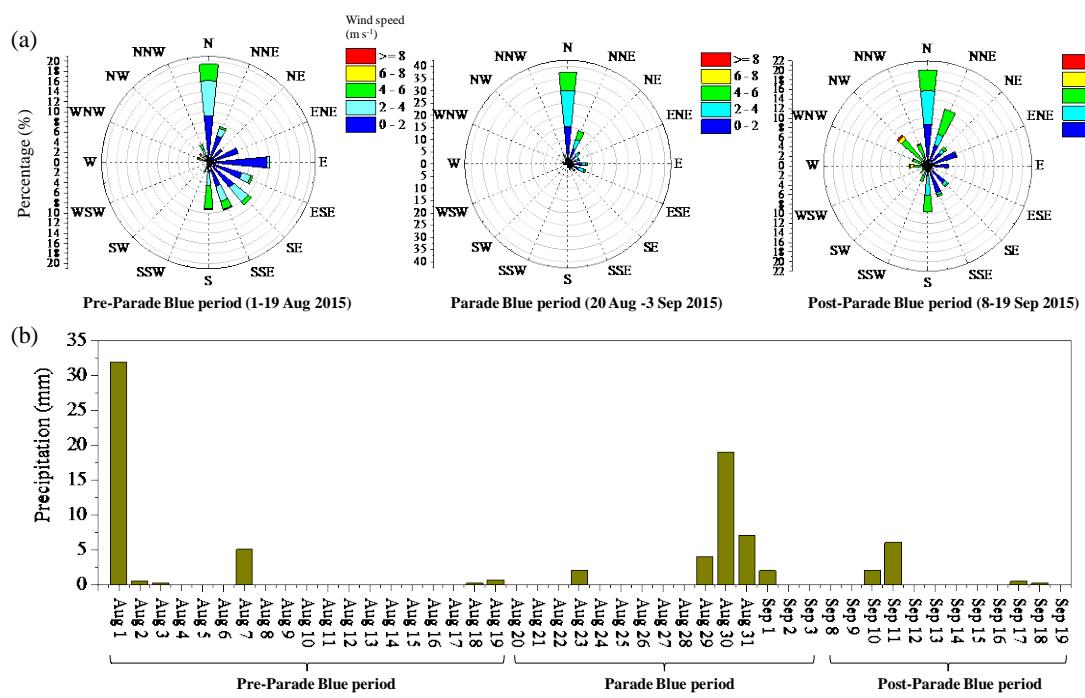
1110

1111

1112

1113

1114

Figure 108

1115

1116

1117

1118

1119

1120

1121

1122

1123

1124

1125

1126

1127

1128

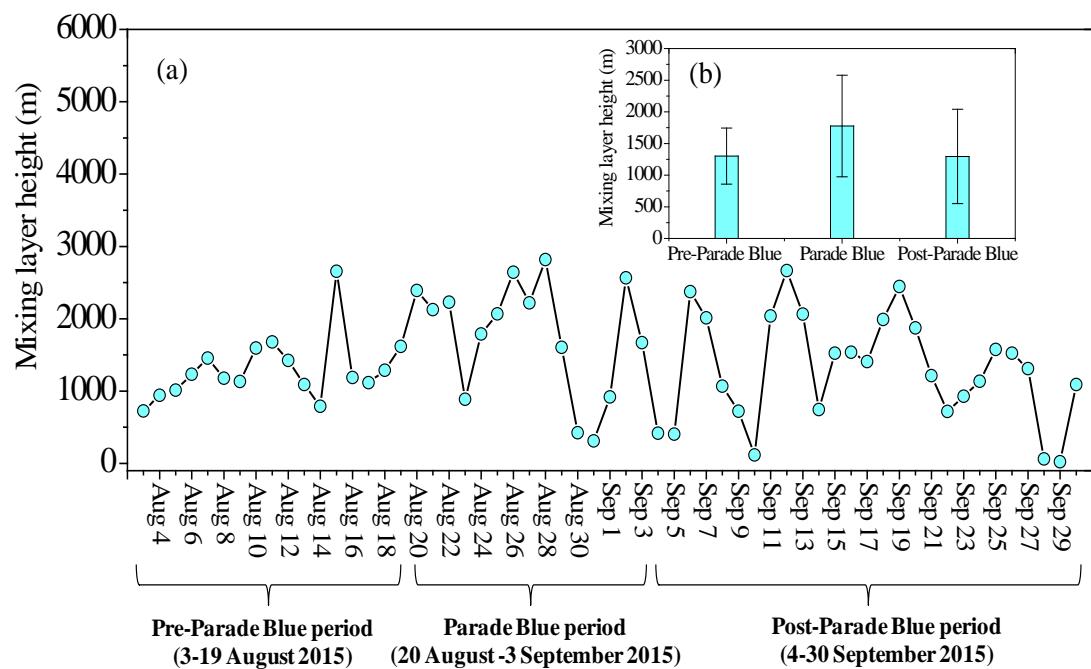
1129

1130

1131

1132

1133

Figure 119

1134

1135

1136

1137

1138

1139

1140

1141

1142

1143

1144

1145

1146

1147

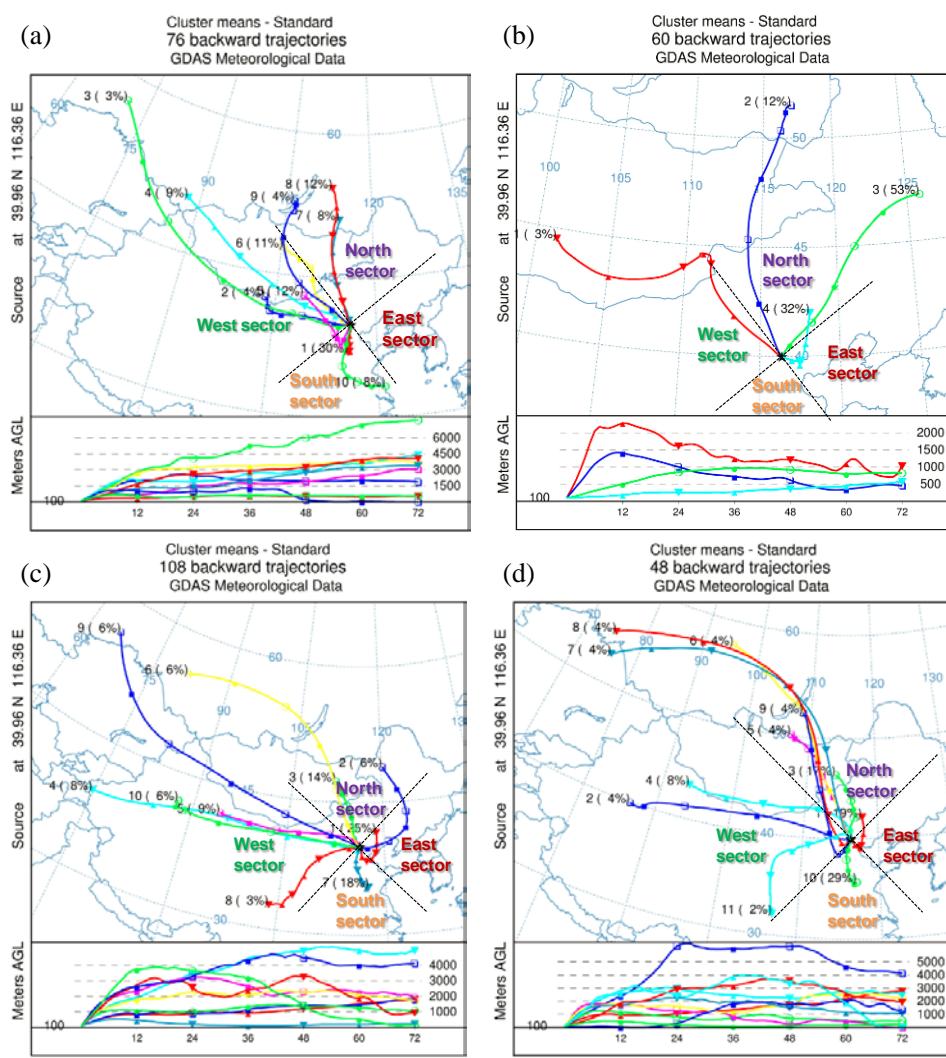
1148

1149

1150

1151

1152

Figure 10

1153

1154

1155

1156

1157

1158

1159

1160

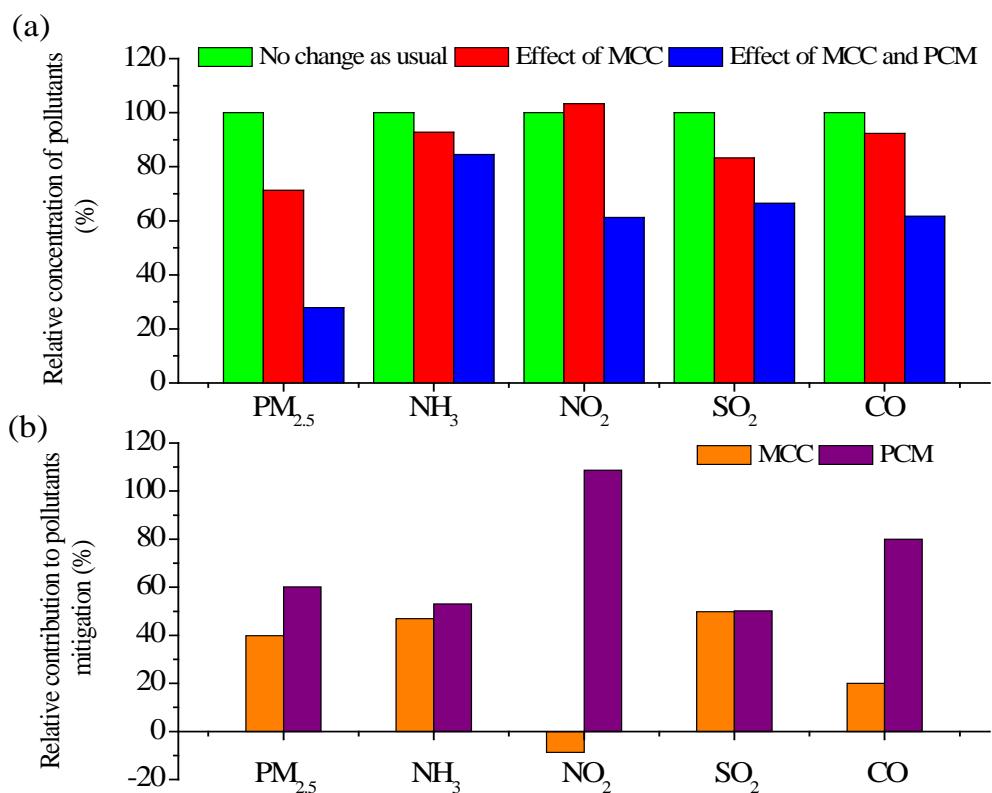
1161

1162

1163

1164

1165 | **Figure 1211**



1166

1167

1168

1169

1170

1171

1172

1173

1174

1175

1176

1177

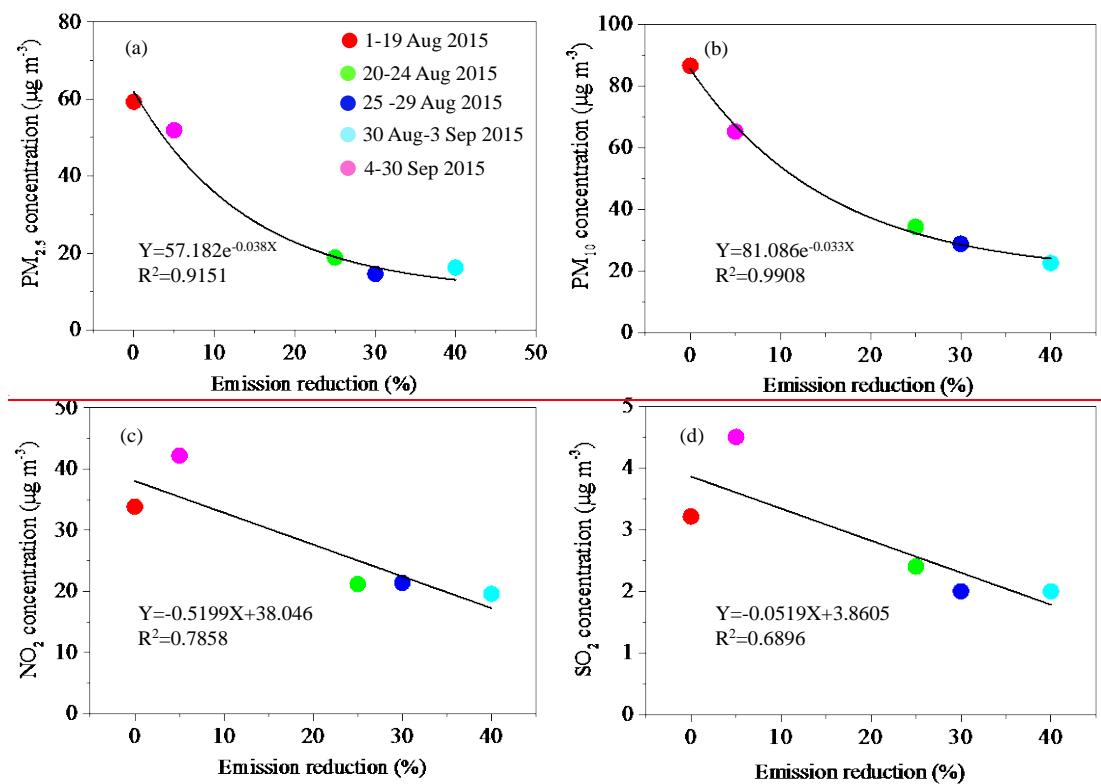
1178

1179

1180

1181

1182

Figure 13

1183

1184

1185

1186

1187

1188

1189

1190

1191

1192

1193

1194

1195

1196

1197

1198

1199 **Table 1. Mean (SE) ambient concentrations of PM_{2.5} and associated ionic
1200 components at the urban and rural sites.**

	Urban site (Site 22) in Beijing			Rural site (Site 29) in Shandong			Rural site (Site 30) in Hebei		
	Pre-	Post-	Pre-	Post-	Pre-	Post-			
	PBP (n=11)	PBP ^a (n=15) ^b	PBP (n=15)	PBP (n=6)	PBP (n=5)	PBP (n=10)	PBP (n=6)	PBP (n=5)	PBP (n=8)
PM _{2.5}	72.37 (7.36) ^{**}	37.23 (5.37)	58.49 (7.99)	90.27 (8.53) [*]	53.84 (11.37)	55.30 (7.45)	38.73 (5.17)	29.44 (6.55)	59.73 (16.35)
NO ₃ ⁻	2.07 (0.60)	0.85 (0.15)	6.27 (1.72) ^{**}	4.21 (1.71)	1.22 (0.22)	5.56 (1.03) ^{**}	0.58 (0.22)	1.02 (0.05)	3.46 (0.81) [*]
SO ₄ ²⁻	13.26 (2.85) ^{**}	3.79 (0.69)	10.92 (2.94)	25.53 (3.36) [*]	11.55 (3.20)	14.80 (2.84)	9.57 (1.07) [*]	6.04 (0.65)	8.21 (0.89)
NH ₄ ⁺	4.62 (0.94) ^{**}	1.15 (0.26)	4.07 (1.25)	8.85 (0.91) [*]	3.49 (1.01)	4.32 (0.98)	2.41 (0.30) ^{**}	0.58 (0.18)	2.34 (0.40) ^{**}
Ca ²⁺	0.58 (0.04) ^{**}	0.38 (0.06)	0.51 (0.07)	0.29 (0.06)	0.29 (0.11)	0.23 (0.05)	0.19 (0.07)	0.12 (0.02)	0.09 (0.02)
K ⁺	0.30 (0.04) ^{**}	0.15 (0.02)	0.42 (0.08) ^{**}	0.76 (0.07)	0.50 (0.11)	0.99 (0.18)	0.20 (0.03)	0.18 (0.02)	0.24 (0.02)
F ⁻	0.17 (0.02) [*]	0.10 (0.01)	0.07 (0.02)	0.04 (0.03)	0.07 (0.03)	0.10 (0.04)	0.01 (0.00)	0.00 (0.00)	0.00 (0.00)
Cl ⁻	0.11 (0.01)	0.11 (0.01)	0.13 (0.03)	0.14 (0.03)	0.29 (0.14)	0.19 (0.06)	0.06 (0.03)	0.01 (0.00)	0.24 (0.09) [*]
Na ⁺	0.10 (0.02)	0.09 (0.02)	0.25 (0.05) ^{**}	0.25 (0.05)	0.45 (0.25)	0.42 (0.04)	0.35 (0.08)	0.52 (0.06)	0.26 (0.02) ^{**}
Mg ²⁺	0.08 (0.01) ^{**}	0.05 (0.01)	0.07 (0.01)	0.05 (0.01)	0.15 (0.12)	0.07 (0.01)	0.03 (0.00) ^{**}	0.04 (0.00)	0.04 (0.00)
SIA ^c	19.95 (3.83) ^{**}	5.78 (1.00)	21.26 (5.83) [*]	38.58 (3.75) ^{**}	16.26 (4.19)	24.68 (4.61)	12.56 (1.43) [*]	7.64 (0.81)	14.00 (1.97) [*]
SIA/PM _{2.5}	25.4 (%)	20.0 (3.2)	29.0 (4.2)	42.9 (4.8)	31.4 (2.3)	45.6 (3.7)	35.1 (4.7)	30.4 (5.2)	30.1 (4.4)

^a Parade Blue period. ^b Number of samples. ^c Secondary inorganic aerosol.

1201 1202 *Significant at the 0.05 probability level. **Significant at the 0.01 probability level.

1 **Supporting Information (SI)**

2 **Figure captions**

3 **Figure S1.** Pictures showing the sites #15 (a) and #20 (b) on the 5th ring road, site #2
4 on the 3rd ring road (c) and site #10 on the 4th ring road (d).

5 **Figure S2.** Correlations between daily average concentrations of PM_{2.5} with those of
6 CO (a), NO₂ (b), SO₂ (c), CO+NO₂+SO₂ (d) and CO+NO₂ (e).

7 **Figure S3.** Map showing the distance between sampling site #22 and the Wanliu
8 monitoring station in Beijing (<http://map.baidu.com/>).

9 **Figure S4.** Daily average sulfur oxidation ratio (SOR) and nitrogen oxidation ratio
10 | (NOR) during the pre-Parade Blue, ~~and~~ Parade Blue and post-Parade Blue periods.

11 | **Figure S5.** Correlations between NH₄⁺ and SO₄²⁻, SO₄²⁻ + NO₃⁻ (unit: $\mu\text{eq m}^{-3}$) during
12 | the pre-Parade Blue, ~~and~~ Parade Blue and post-Parade Blue periods.

13 | **Figure. S6.** 10 m mean wind field and (vector) and sea surface pressure (white)
14 | plotted on the precipitation field during the pre-Parade Blue period (left), Parade Blue
15 | period (right) and post-Parade Blue period (below).

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30 **Figure S1**



31

32

33

34

35

36

37

38

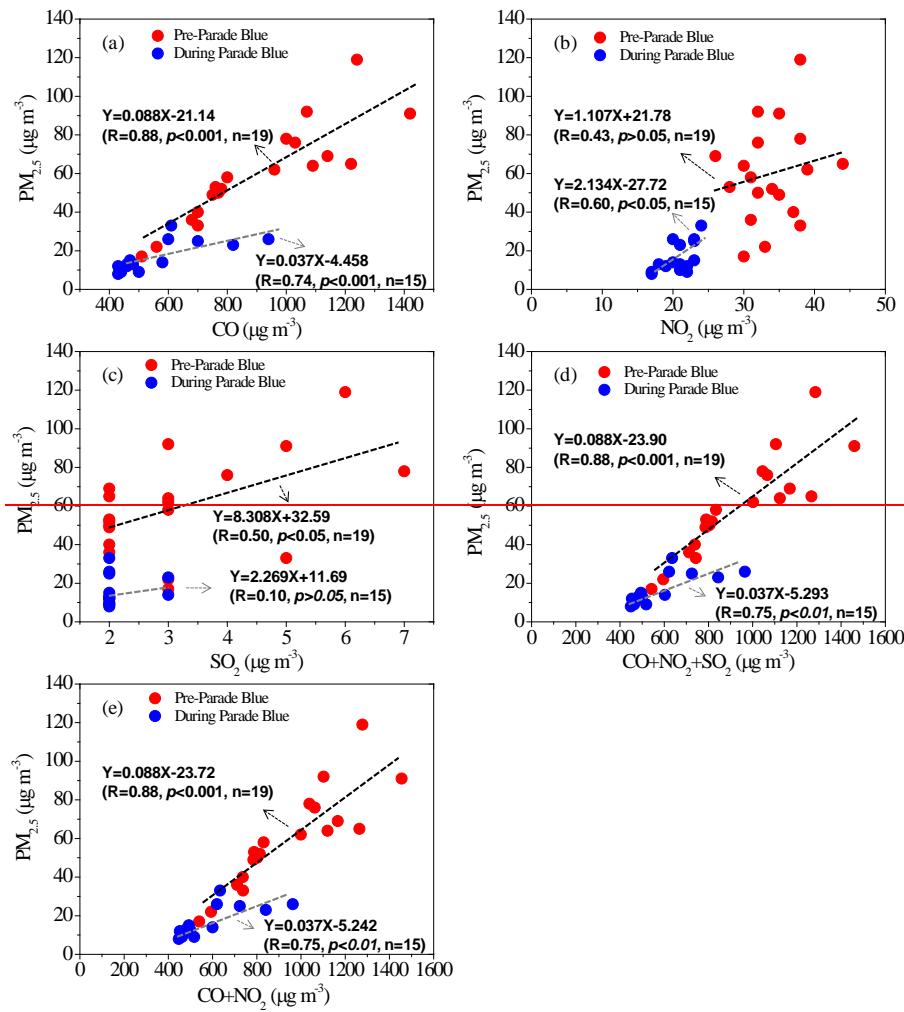
39

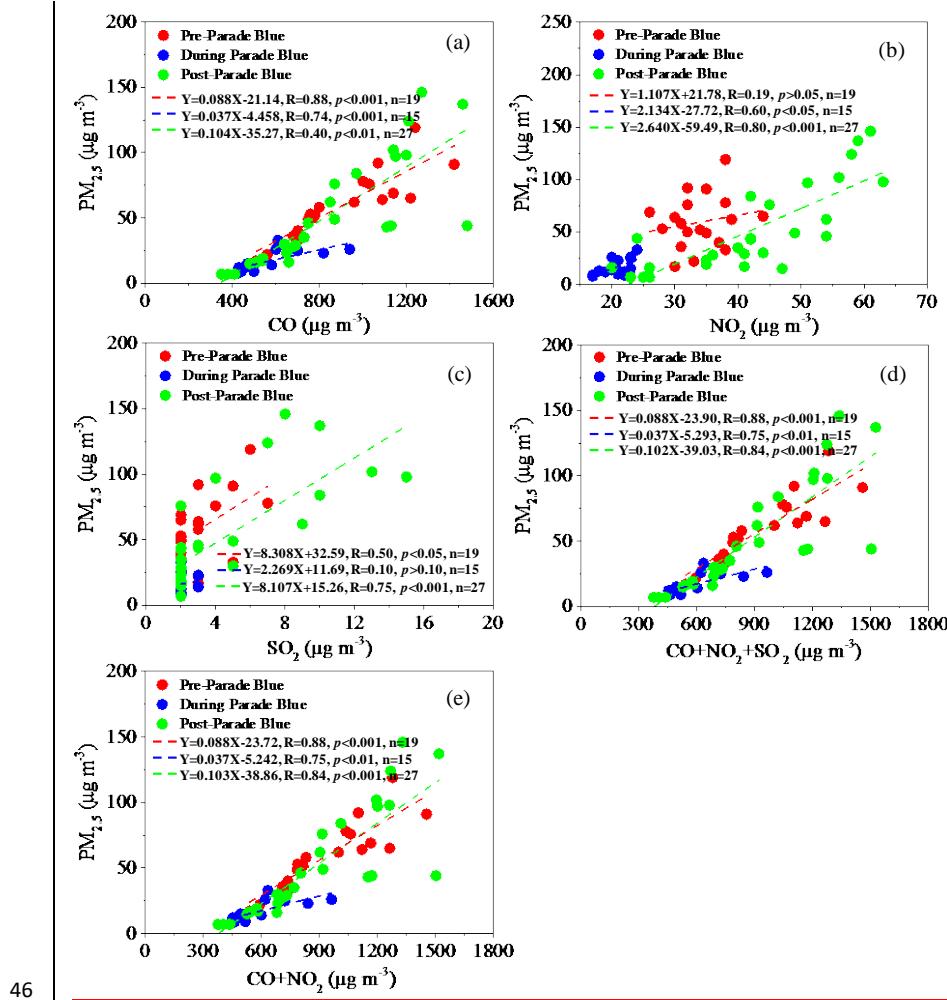
40

41

42

43

Figure S2



46

47

48

49

50

51

52

53

54

55

56

57

58 **Figure S3**



59

60

61

62

63

64

65

66

67

68

69

70

71

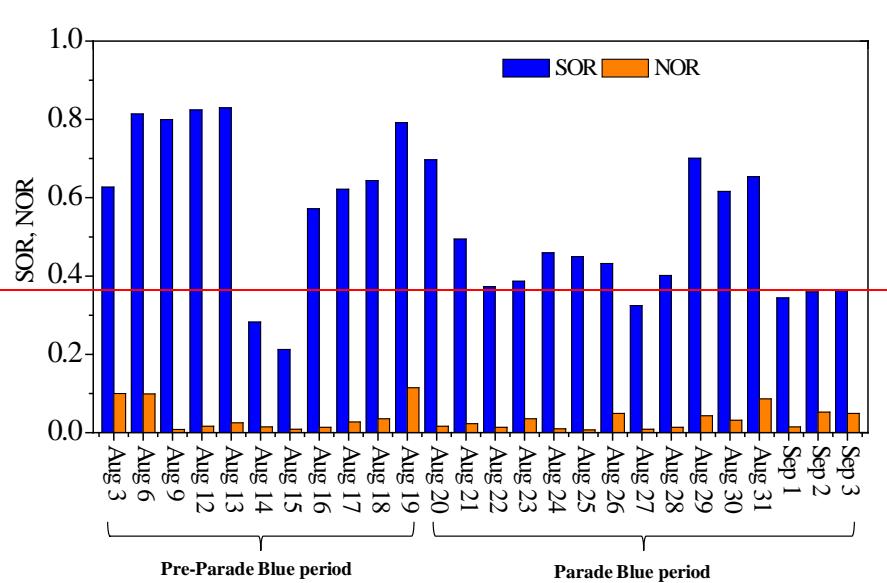
72

73

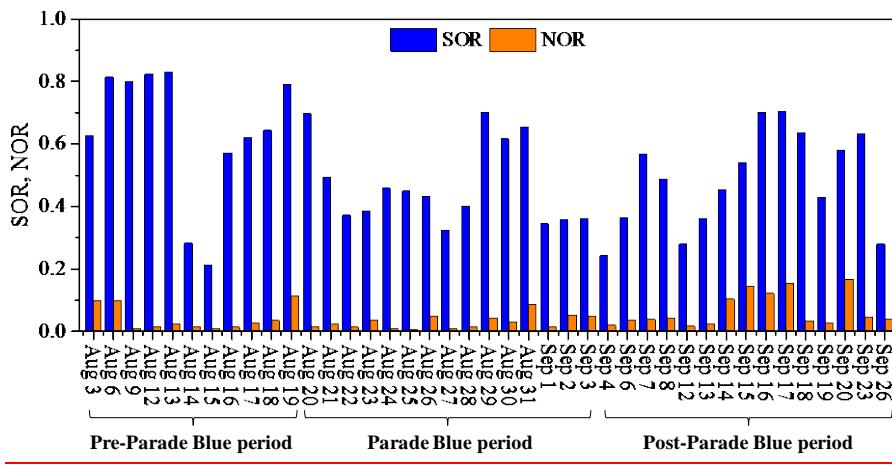
74

75

76

77 **Figure S4**

78



79

80

81

82

83

84

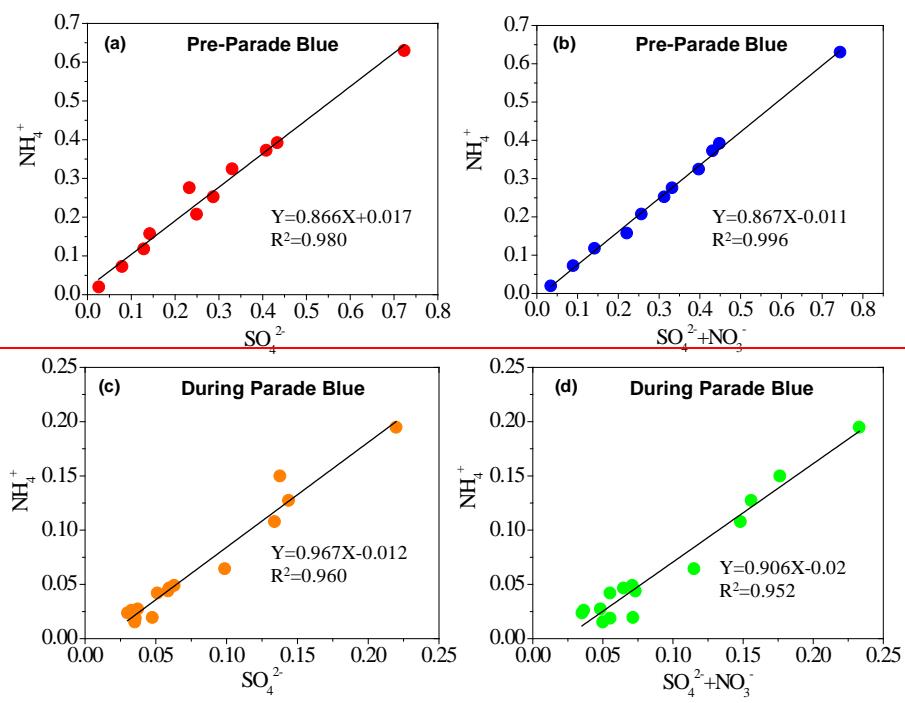
85

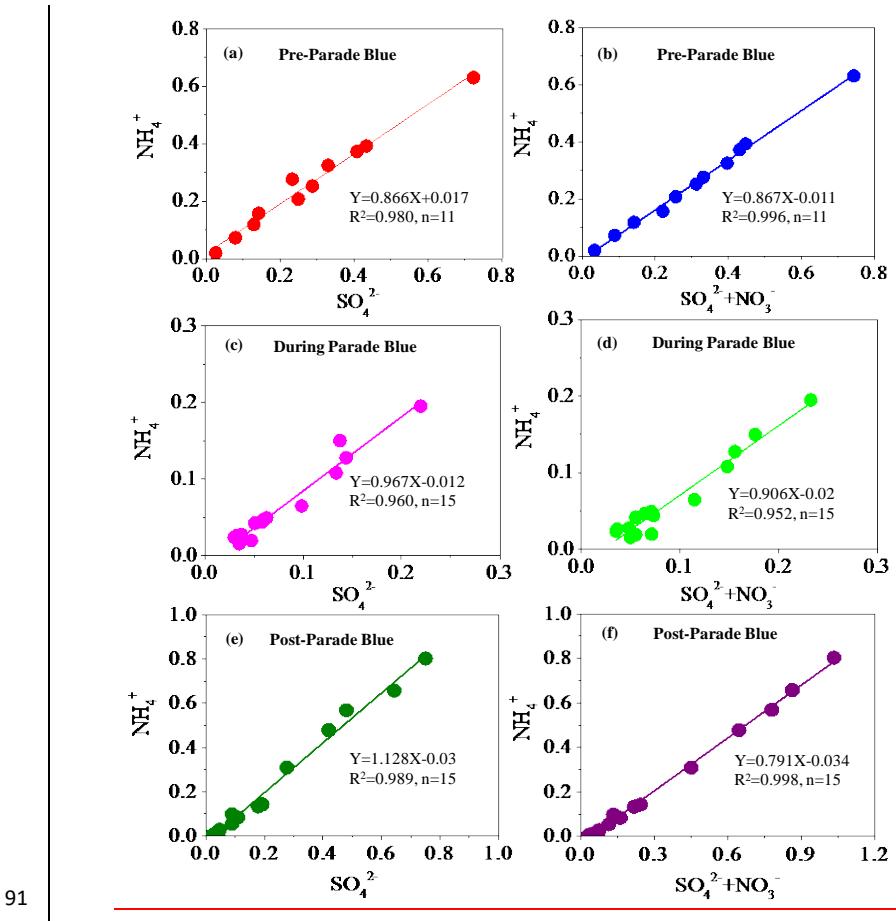
86

87

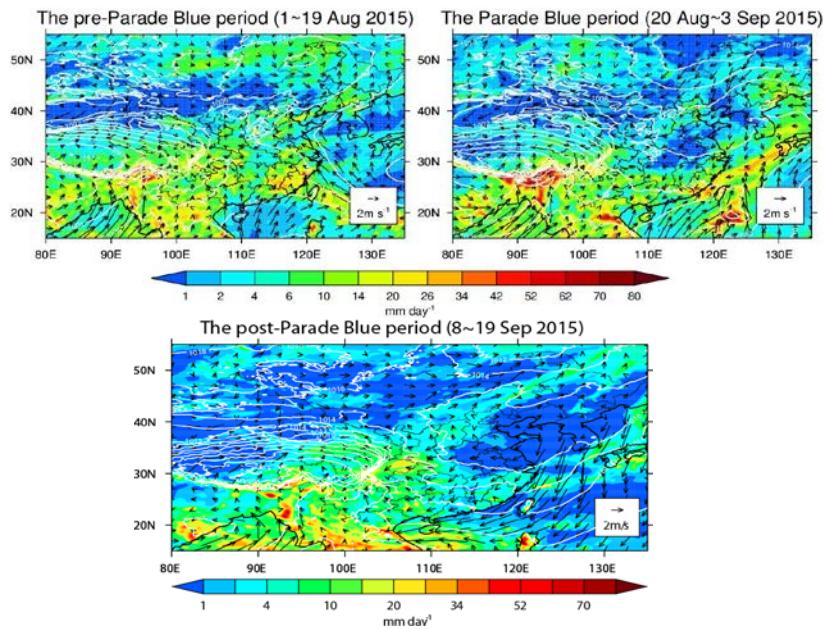
88 **Figure S5**

89
90





105

106 **Figure S6**

107

Table S1. Information on the ~~thir~~^{thirty}-one monitoring sites.

Site code	Coordinate	Sampling place	Site type ^a	Measured pollutants	Sampling durations ^b for each pollutant			Numbers of samples ^c			Surrounding environment and possible emission sources
					NH ₃	NO ₂	PM _{2.5}	NH ₃	NO ₂	PM _{2.5}	
1	116.37°E, 39.95°N	At Beijing Normal University	NRS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Densely occupied residences, traffic roads
2	116.47°E, 39.91°N	On the 3 rd ring road	RS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Traffic roads
3	116.39°E, 39.86°N	On the 3 rd ring road	RS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Traffic roads
4	116.32°E, 39.92°N	On the 3 rd ring road	RS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Traffic roads
5	116.38°E, 39.97°N	On the 3 rd ring road	RS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Traffic roads
6	116.29°E, 39.95°N	At Beijing Academy of Agriculture and Forestry	NRS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Occupied residences, traffic roads
7	116.36°E, 39.99°N	On the 4 th ring road	RS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Traffic roads
8	116.28°E, 39.91°N	On the 4 th ring road	RS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Traffic roads
9	116.39°E, 39.84°N	On the 4 th ring road	RS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Traffic roads
10	116.49°E, 39.92°N	On the 4 th ring road	RS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Traffic roads
11	116.39°E, 40.01°N	Inside Olympic Park	NRS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Occupied residences, traffic roads
12	116.54°E, 39.92°N	Near Outside a sewage treatment plant	NRS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Small villages, sewage treatment plant
13	116.29°E, 40.00°N	Inside Summer Palace	NRS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Occupied residences,

带格式的：上标

带格式的：上标

带格式的：上标

带格式的：上标

带格式的：上标

带格式的：上标

带格式的：上标

带格式的：上标

14	116.22°E, 39.99°N	On the 5 rd th ring road	RS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	traffic roads Traffic roads	带格式的: 上标
15	116.22°E, 39.91°N	On the 5 rd th ring road	RS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Traffic roads	带格式的: 上标
16	116.27°E, 39.79°N	On the 5 rd th ring road	RS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Traffic roads	带格式的: 上标
17	116.40°E, 39.77°N	On the 5 rd th ring road	RS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Traffic roads	带格式的: 上标
18	116.49°E, 39.81°N	On the 5 rd th ring road	RS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Traffic roads	带格式的: 上标
19	116.56°E, 39.88°N	On the 5 rd th ring road	RS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Traffic roads	带格式的: 上标
20	116.52°E, 39.99°N	On the 5 rd th ring road	RS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Traffic roads	带格式的: 上标
21	116.39°E, 40.03°N	On the 5 rd th ring road	RS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Traffic roads	带格式的: 上标
22	116.29°E, 40.03°N	In-At China Agricultural University	NRS	NH ₃ , NO ₂ , PM _{2.5}	I, II, III	I, II, III	I, II, IV	3	3	41	Densely occupied residences, industry, small-scale urban agriculture, and traffic roads	
23	116.26°E, 40.04°N	On the Baiwang hill	NRS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Small villages and roads	
24	116.23°E, 40.07°N	Near At a refuse landfill site	NRS	NH ₃	II, III	n.m.	n.m.	2	n.d.	n.d.	Small villages, refuse landfill	
25	116.19°E, 40.14°N	In Shangzhuang Agricultural Experiment Station	NRS	NH ₃ , NO ₂	I, II, III	I, II, III	n.m.	3	3	n.d.	Small villages, croplands	

26	116.14°E, 40.26°N	On the high way	RS	NH_3 , NO_2	II, III	II, III	n.m.	2	2	n.d.	Traffic roads
27	116.02°E, 40.36°N	Inside Badaling Highway Tunnel	RS	NH_3 , NO_2	II, III	II, III	n.m.	2	2	n.d.	Traffic roads
28	116.01°E, 40.36°N	Near the exit of Badaling Highway Tunnel	RS	NH_3 , NO_2	II, III	II, III	n.m.	2	2	n.d.	Traffic roads
29	116.58°E, 36.84°N	In Yucheng Agricultural Experiment Station	RS	NH_3 , NO_2 , $\text{PM}_{2.5}$	I, II, III	I, II, III	I, II, IV	3	3	21	Small villages, croplands
30	115.02°E, 36.87°N	In Quzhou Agricultural Experiment Station	RS	NH_3 , NO_2 , $\text{PM}_{2.5}$	I, II, III	I, II, III	I, II, IV	3	3	19	Small villages, croplands
31	120.75 ° E, 37.93 ° N	On Changdao island	BS	NH_3 , NO_2	I, II, III	I, II, III	n.m.	3	3	n.d.	Almost no agricultural and industrial activities

109 ^aNRS, NR and BS denote non-road site, road site and background site, respectively.

110 ^bI, II, III, and IV denote the periods of 3-19 August 2015, 20 August-3 September 2015, 8-19 September 2015, and 4-30 September 2015,
111 respectively; n.m. means no measurements.

112 ^dValues for NH_3 and NO_2 samples multiply by 3 to obtain the total numbers of samples; n.d. means no data.

113

114

115

116

117

Table S2. Summary statistical of daily average PM_{2.5}-concentrations ($\mu\text{g m}^{-3}$) during the pre-Parade Blue and Parade Blue periods in the 291 cities across China.

City	Province	Region ^a	The Pre Parade Blue period				The Parade Blue period				Reduction or Increase ^b	
			Standard		Standard							
			Mean	Error	Min	Max	Mean	Error	Min	Max		
Beijing	Municipality	NC	59	6	17	119	17	2	8	33	72	
Tianjin	Municipality	NC	62	5	20	116	32	4	15	77	49	
Baoding	Hebei	NC	88	7	29	148	35	4	16	75	60	
Cangzhou	Hebei	NC	59	6	17	119	17	2	8	33	72	
Chengde	Hebei	NC	31	4	11	73	14	0	11	17	56	
Handan	Hebei	NC	81	7	35	147	52	7	9	91	36	
Hengshui	Hebei	NC	91	7	33	159	47	5	25	92	48	
Langfang	Hebei	NC	69	6	17	113	24	4	5	78	66	
Qinhuangdao	Hebei	NC	45	6	10	92	7	1	4	23	85	
Shijiazhuang	Hebei	NC	78	7	20	128	35	5	6	77	55	
Tangshan	Hebei	NC	73	6	25	118	13	2	4	29	83	
Xingtai	Hebei	NC	83	7	30	144	45	7	8	101	45	
Zhangjiakou	Hebei	NC	29	3	17	66	18	1	9	27	39	
Changzhi	Shanxi	NC	59	5	22	96	39	3	25	55	34	
Datong	Shanxi	NC	26	2	13	59	16	1	12	22	37	
Jincheng	Shanxi	NC	41	3	11	69	37	3	19	70	12	
Jinzhong	Shanxi	NC	39	3	21	71	26	3	11	51	34	
Linfen	Shanxi	NC	32	2	19	44	27	2	17	43	18	
Lvliang	Shanxi	NC	46	4	17	88	29	2	18	40	38	

Shuozhou	Shanxi	NC	39	2	18	54	28	+	22	36	29
Taiyuan	Shanxi	NC	44	3	26	73	23	3	9	55	48
Xinzhou	Shanxi	NC	39	3	23	61	20	2	12	36	48
Yangquan	Shanxi	NC	38	3	16	64	19	2	9	31	49
Yuncheng	Shanxi	NC	58	3	29	78	48	3	29	69	17
Binzhou	Shandong	NC	49	5	12	94	37	4	18	69	24
Dezhou	Shandong	NC	89	6	25	133	44	4	23	85	51
Dongying	Shandong	NC	65	7	21	123	43	4	21	80	34
Jinan	Shandong	NC	59	5	21	87	50	4	30	82	15
Jining	Shandong	NC	50	5	22	103	49	3	34	78	+
Laiwu	Shandong	NC	54	6	19	98	65	5	40	101	21
Liaocheng	Shandong	NC	67	6	24	105	49	5	17	80	27
Linyi	Shandong	NC	37	4	15	76	43	4	25	78	15
Qingdao	Shandong	NC	35	4	9	60	30	3	14	71	15
Rizhao	Shandong	NC	39	4	8	75	40	5	16	74	4
Tai'an	Shandong	NC	42	4	21	76	40	3	20	67	5
Weihai	Shandong	NC	38	4	19	74	22	2	7	31	44
Weifang	Shandong	NC	51	6	17	102	55	7	25	115	8
Yantai	Shandong	NC	39	5	14	87	23	2	9	36	40
Zaozhuang	Shandong	NC	45	5	16	83	51	3	40	74	14
Zibo	Shandong	NC	56	4	29	90	55	4	35	89	2
Alxa League	Inner Mongolia	NC	38	3	18	66	33	1	22	40	15
Bayannur	Inner Mongolia	NC	33	3	15	56	32	1	21	41	3
Baotou	Inner Mongolia	NC	35	3	11	56	22	1	13	30	37
Chifeng	Inner Mongolia	NC	22	2	10	47	13	1	11	18	38
Ordos	Inner Mongolia	NC	22	3	5	40	12	+	8	18	46

Hohhot	Inner Mongolia	NC	23	2	8	43	14	+	10	23	37
Hulun Buir	Inner Mongolia	NC	28	2	18	48	26	2	16	38	7
Tongliao	Inner Mongolia	NC	46	6	17	99	25	3	17	55	45
Wuhai	Inner Mongolia	NC	42	4	18	85	30	2	18	44	29
Hinggan League	Inner Mongolia	NC	27	2	15	37	21	+	15	28	20
Anyang	Henan	NC	61	5	30	106	46	5	16	82	25
Hebi	Henan	NC	50	4	26	76	31	4	10	61	38
Jiaozuo	Henan	NC	40	3	13	61	41	4	12	63	0
Kaifeng	Henan	NC	45	4	21	81	38	4	17	69	17
Luoyang	Henan	NC	56	6	20	95	41	3	21	56	27
Luohe	Henan	NC	48	5	21	87	52	3	31	71	7
Nanyang	Henan	NC	49	4	22	84	56	4	31	85	14
Pingdingshan	Henan	NC	53	6	19	91	50	3	33	73	5
Sanmenxia	Henan	NC	58	5	17	94	39	3	20	56	32
Shangqiu	Henan	NC	41	4	19	88	40	4	18	79	2
Xinyang	Henan	NC	29	4	13	67	40	3	22	61	36
Zhengzhou	Henan	NC	61	6	25	112	50	6	17	98	18
Zhoukou	Henan	NC	36	3	22	60	42	3	21	58	15
Zhumadian	Henan	NC	41	4	16	76	41	3	16	59	0
Anshan	Liaoning	NE	42	5	14	72	43	2	30	59	2
Benxi	Liaoning	NE	34	3	17	72	30	2	12	45	11
Chaoyang	Liaoning	NE	30	4	13	65	14	1	9	25	54
Dalian	Liaoning	NE	41	5	13	97	23	3	11	52	44
Dandong	Liaoning	NE	24	4	+	51	20	2	8	28	13
Fushun	Liaoning	NE	27	3	12	63	18	2	6	28	32
Fuxin	Liaoning	NE	44	6	11	97	18	2	9	34	59

Huludao	Liaoning	NE	66	9	20	137	24	2	45	48	64
Jinzhou	Liaoning	NE	58	8	23	125	19	2	10	44	67
Liaoyang	Liaoning	NE	36	4	11	69	31	2	18	41	15
Panjin	Liaoning	NE	41	6	13	93	18	2	10	43	55
Shenyang	Liaoning	NE	36	4	16	66	23	2	11	35	37
Tieling	Liaoning	NE	28	3	13	53	17	2	7	31	40
Wafangdian	Liaoning	NE	48	6	19	103	27	1	21	38	44
Yingkou	Liaoning	NE	25	3	11	45	23	3	9	51	7
Baicheng	Jilin	NE	47	2	36	63	42	1	32	51	10
Baishan	Jilin	NE	29	3	15	52	25	2	17	38	16
Changchun	Jilin	NE	29	4	16	73	23	2	8	39	23
Jilin	Jilin	NE	19	2	10	39	18	2	8	30	7
Liaoyuan	Jilin	NE	36	5	13	76	36	6	14	81	0
Siping	Jilin	NE	35	5	15	89	23	2	12	38	35
Songyuan	Jilin	NE	20	1	10	36	13	1	5	23	33
Daqing	Heilongjiang	NE	30	2	17	51	21	1	15	33	30
Daxinganling	Heilongjiang	NE	43	2	5	40	10	1	7	14	21
Harbin	Heilongjiang	NE	25	2	15	38	18	2	11	35	27
Hegang	Heilongjiang	NE	47	2	33	70	28	4	6	61	40
Heihe	Heilongjiang	NE	33	1	26	44	27	1	18	34	19
Jixi	Heilongjiang	NE	19	1	14	25	16	1	11	27	19
Jiamusi	Heilongjiang	NE	15	1	6	24	13	1	7	29	13
Mudanjiang	Heilongjiang	NE	20	1	16	27	22	1	14	33	10
Qitaihe	Heilongjiang	NE	22	1	17	32	21	1	14	33	8
Qiqihar	Heilongjiang	NE	19	2	7	31	13	1	6	22	29
Shuangyashan	Heilongjiang	NE	23	1	17	28	26	1	19	34	13

Suihua	Heilongjiang	NE	15	+	9	26	11	+	8	15	23
Ankang	Shaanxi	NW	21	2	7	43	27	2	13	44	30
Baoji	Shaanxi	NW	38	5	11	78	34	4	11	68	12
Hanzhong	Shaanxi	NW	27	3	10	60	32	2	18	40	20
Shangluo	Shaanxi	NW	28	3	9	65	27	2	14	42	3
Tongchuan	Shaanxi	NW	36	4	12	71	32	2	14	45	12
Weinan	Shaanxi	NW	36	3	8	58	34	3	17	52	4
Xi'an	Shaanxi	NW	45	4	13	73	40	3	20	66	11
Xianyang	Shaanxi	NW	38	4	10	60	35	3	19	55	9
Yan'an	Shaanxi	NW	33	3	14	59	24	2	14	44	27
Yulin	Shaanxi	NW	30	3	12	53	20	2	9	33	32
Baiyings	Gansu	NW	26	3	9	65	27	+	21	33	4
Dingxi	Gansu	NW	21	1	9	29	28	1	19	36	37
Gannan	Gansu	NW	17	1	9	33	26	3	15	53	54
Jiayuguan	Gansu	NW	23	5	10	86	26	3	12	58	16
Jiuquan	Gansu	NW	36	6	19	121	35	3	18	61	2
Lanzhou	Gansu	NW	36	2	19	62	32	+	24	38	12
Linxia	Gansu	NW	18	1	7	28	21	2	12	35	20
Pingliang	Gansu	NW	30	3	10	68	20	2	12	29	33
Qingyang	Gansu	NW	22	3	7	57	20	2	11	31	11
Tianshui	Gansu	NW	18	3	6	67	14	2	6	30	22
Wuwei	Gansu	NW	27	4	14	77	27	2	11	44	2
Zhangye	Gansu	NW	21	2	9	54	17	2	5	30	17
Guyuan	Ningxia	NW	25	3	9	53	22	1	14	32	11
Shizuishan	Ningxia	NW	30	3	13	51	23	1	12	31	25
Wuzhong	Ningxia	NW	26	3	13	46	28	2	17	35	8

Yinchuan	Ningxia	NW	41	3	21	68	34	3	18	50	16
Zhongwei	Ningxia	NW	27	3	13	74	26	2	17	36	4
Aksu	Sinkiang	NW	99	16	22	281	52	6	28	95	47
Hami	Sinkiang	NW	29	9	11	191	22	2	11	40	26
Hotan	Sinkiang	NW	130	29	26	646	82	12	21	180	37
Kashgar	Sinkiang	NW	103	20	25	329	45	10	10	141	57
Karamay	Sinkiang	NW	20	1	15	35	16	1	12	20	22
Kizilsu	Sinkiang	NW	59	13	7	209	20	5	0	65	65
Shihezi	Sinkiang	NW	32	6	9	106	21	2	11	35	33
Urumchi	Sinkiang	NW	32	3	10	58	30	3	15	56	6
Wujiacu	Sinkiang	NW	32	3	12	57	30	3	13	52	4
Yili	Sinkiang	NW	26	2	11	35	26	2	10	37	2
Ezhou	Hubei	SE	33	4	8	67	51	3	22	71	53
Huanggang	Hubei	SE	33	3	9	64	46	3	21	60	42
Jingmen	Hubei	SE	32	4	13	77	57	5	23	84	79
Shiyan	Hubei	SE	30	3	9	61	42	4	23	64	39
Wuhan	Hubei	SE	32	3	13	62	53	4	24	76	66
Xianning	Hubei	SE	31	3	10	62	57	3	25	69	85
Xiangyang	Hubei	SE	33	4	10	74	45	4	24	74	38
Xiaogan	Hubei	SE	36	3	19	61	57	3	31	76	58
Yichang	Hubei	SE	29	4	10	74	48	4	26	84	67
Anqing	Anhui	SE	38	3	14	58	35	3	14	58	7
Bengbu	Anhui	SE	41	4	12	71	55	4	18	76	34
Bozhou	Anhui	SE	34	3	19	63	63	5	28	103	84
Chuzhou	Anhui	SE	42	4	14	77	52	5	22	80	24
Fuyang	Anhui	SE	31	3	13	61	47	3	25	76	49

Hefei	Anhui	SE	35	4	8	60	43	4	13	65	23
Huainan	Anhui	SE	23	3	6	53	41	4	9	62	80
Huangshan	Anhui	SE	22	2	6	37	35	5	10	62	63
Lu'an	Anhui	SE	37	3	12	67	50	2	34	64	36
Ma'anshan	Anhui	SE	38	3	16	58	50	5	21	85	32
Suzhou	Anhui	SE	56	7	22	111	58	4	34	79	2
Tongling	Anhui	SE	42	4	14	80	54	5	24	85	28
Wuhu	Anhui	SE	30	3	10	52	44	4	17	70	49
Changzhou	Jiangsu	SE	31	3	11	67	40	5	8	61	29
Huaian	Jiangsu	SE	32	3	10	59	45	4	12	74	38
Lianyungang	Jiangsu	SE	33	4	9	64	42	5	13	90	30
Nanjing	Jiangsu	SE	29	3	7	47	39	4	13	63	36
Nantong	Jiangsu	SE	34	4	10	62	42	6	10	96	22
Suzhou	Jiangsu	SE	33	3	9	54	54	7	15	96	63
Suqian	Jiangsu	SE	37	3	12	67	45	3	18	71	23
Taizhou	Jiangsu	SE	36	4	10	68	38	4	13	62	7
Wuxi	Jiangsu	SE	35	3	12	59	52	6	15	90	50
Xuzhou	Jiangsu	SE	31	3	10	56	38	2	26	52	21
Yancheng	Jiangsu	SE	30	4	8	67	29	3	8	49	4
Yangzhou	Jiangsu	SE	31	3	9	57	38	3	17	55	22
Zhenjiang	Jiangsu	SE	38	4	10	65	46	5	15	70	20
Shanghai	Municipality	SE	31	3	9	54	56	8	11	122	79
Hangzhou	Zhejiang	SE	32	3	9	63	43	5	12	74	32
Huzhou	Zhejiang	SE	31	2	17	54	49	5	20	77	55
Jiaxing	Zhejiang	SE	32	3	10	47	52	6	16	99	64

Jinhua	Zhejiang	SE	33	3	13	57	53	6	19	100	60
Lishui	Zhejiang	SE	23	2	6	33	30	3	14	45	33
Ningbo	Zhejiang	SE	23	2	9	37	36	5	10	73	57
Quzhou	Zhejiang	SE	33	3	13	57	52	6	19	81	58
Shaoxing	Zhejiang	SE	33	3	12	63	57	7	21	113	75
Taizhou	Zhejiang	SE	25	2	10	40	29	4	8	61	47
Wenjiang	Zhejiang	SE	30	2	15	42	30	3	12	47	1
Zhoushan	Zhejiang	SE	17	1	8	30	23	3	7	47	40
Fuzhou	Jiangxi	SE	28	2	15	50	44	4	16	74	57
Ganzhou	Jiangxi	SE	38	3	20	63	44	4	24	73	15
Jian	Jiangxi	SE	32	3	15	56	41	4	19	65	28
Jingdezhen	Jiangxi	SE	31	2	14	47	45	4	17	66	46
Jiujiang	Jiangxi	SE	31	3	9	49	48	4	24	69	57
Nanchang	Jiangxi	SE	23	2	8	36	40	4	10	68	74
Pingxiang	Jiangxi	SE	23	2	13	40	49	5	15	78	116
Shangrao	Jiangxi	SE	41	3	19	61	38	4	20	71	8
Xinyu	Jiangxi	SE	25	2	10	36	38	4	15	59	54
Yichun	Jiangxi	SE	31	1	25	49	48	2	28	62	52
Yingtan	Jiangxi	SE	21	2	6	42	39	4	20	66	87
Changsha	Hunan	SE	27	2	14	49	59	4	21	86	117
Changde	Hunan	SE	22	2	6	43	31	2	11	43	39
Chenzhou	Hunan	SE	27	2	12	48	45	8	12	126	70
Huaihua	Hunan	SE	21	1	13	33	49	4	17	76	130
Loudi	Hunan	SE	28	2	15	40	54	3	21	71	90
Xiangtan	Hunan	SE	27	2	15	46	58	4	22	79	111
Yiyang	Hunan	SE	28	2	17	51	49	3	19	68	77

Yongzhou	Hunan	SE	37	2	25	55	44	3	22	63	19
Zhangjiajie	Hunan	SE	23	3	9	56	45	4	17	71	96
Zhuzhou	Hunan	SE	22	1	11	34	50	4	21	85	126
Dongguan	Guangdong	SE	26	2	11	45	35	3	16	57	34
Foshan	Guangdong	SE	34	3	20	59	44	4	18	75	31
Guangzhou	Guangdong	SE	34	2	17	47	39	3	19	63	16
Heyuan	Guangdong	SE	25	2	10	37	31	4	12	54	24
Huizhou	Guangdong	SE	22	2	10	39	25	4	7	44	15
Jiangmen	Guangdong	SE	19	2	10	39	36	5	12	67	85
Maoming	Guangdong	SE	19	3	5	56	28	6	4	65	47
Meizhou	Guangdong	SE	23	2	9	43	26	3	9	48	11
Qingyuan	Guangdong	SE	32	3	17	62	32	4	14	59	0
Shantou	Guangdong	SE	24	2	12	38	25	3	13	43	4
Shaoguan	Guangdong	SE	30	2	15	56	32	4	13	59	8
Shenzhen	Guangdong	SE	20	2	8	48	27	4	11	47	36
Zhuijiang	Guangdong	SE	15	2	6	42	31	6	7	69	102
Zhaqing	Guangdong	SE	30	2	15	53	40	4	17	73	35
Zhongshan	Guangdong	SE	19	3	7	56	28	5	7	59	46
Zhuhai	Guangdong	SE	17	3	6	55	26	5	7	57	53
Fuzhou	Fujian	SE	22	2	6	38	17	2	7	27	25
Longyan	Fujian	SE	17	2	5	36	19	2	10	37	12
Nanping	Fujian	SE	18	2	3	37	18	3	9	37	1
Ningde	Fujian	SE	21	2	7	35	17	2	7	30	18
Putian	Fujian	SE	23	2	10	44	19	2	9	30	19
Quanzhou	Fujian	SE	20	2	7	33	16	1	9	26	23
Sanming	Fujian	SE	21	2	4	38	22	3	11	44	6

Xiamen	Fujian	SE	21	2	10	36	19	1	12	30	6
Zhangzhou	Fujian	SE	20	2	8	44	20	1	14	29	2
Haikou	Hainan	SE	12	1	7	25	20	3	7	48	60
Sanya	Hainan	SE	10	0	6	13	11	1	6	19	18
Chongqing	Municipality	SW	34	3	11	64	53	3	24	71	53
Bazhong	Sichuan	SW	17	1	8	25	23	2	14	36	36
Chengdu	Sichuan	SW	33	4	9	75	54	4	30	78	63
Dazhou	Sichuan	SW	32	2	13	50	62	4	33	85	92
Deyang	Sichuan	SW	31	3	12	58	53	5	28	94	73
Guangyuan	Sichuan	SW	13	2	4	52	13	1	8	18	3
Leshan	Sichuan	SW	29	4	7	82	55	6	23	105	89
Luzhou	Sichuan	SW	36	5	6	84	57	8	13	111	60
Meishan	Sichuan	SW	32	4	8	63	51	6	25	100	58
Mianyang	Sichuan	SW	25	2	8	40	41	3	19	70	67
Nanchong	Sichuan	SW	36	3	15	59	50	3	28	65	40
Panzhihua	Sichuan	SW	22	1	12	32	28	2	17	40	28
Suining	Sichuan	SW	29	3	8	51	47	3	18	71	63
Ya'an	Sichuan	SW	15	2	6	36	16	1	10	25	4
Ziyang	Sichuan	SW	18	1	12	31	25	2	15	42	39
Zigong	Sichuan	SW	37	4	17	80	57	6	29	88	54
Baoshan	Yunnan	SW	20	1	13	34	18	1	14	23	8
Chuxiong	Yunnan	SW	14	1	5	26	24	3	6	45	77
Dali	Yunnan	SW	13	2	4	31	13	1	9	24	0
Dehong	Yunnan	SW	21	1	13	33	19	1	12	32	8
Honghe	Yunnan	SW	19	4	5	78	34	4	14	68	78
Kunming	Yunnan	SW	18	2	9	38	27	3	12	43	49

Lijiang	Yunnan	SW	15	0	14	22	16	0	14	19	3
Lineang	Yunnan	SW	15	1	8	26	17	1	14	24	14
Nujiang	Yunnan	SW	12	0	8	15	13	0	11	16	10
Qujing	Yunnan	SW	23	2	8	44	34	3	16	51	46
Wenshan	Yunnan	SW	27	2	17	48	40	2	28	53	50
Xishuangbanna	Yunnan	SW	7	1	2	13	16	1	5	23	122
Tuxi	Yunnan	SW	13	1	5	25	26	3	8	40	107
Zhaotong	Yunnan	SW	31	3	15	56	37	4	10	68	17
Anshun	Guizhou	SW	19	1	14	33	34	3	17	57	84
Bijie	Guizhou	SW	18	2	6	32	29	3	4	48	56
Guiyang	Guizhou	SW	19	2	7	42	41	3	10	60	115
Liupanshui	Guizhou	SW	26	3	11	52	42	5	11	67	61
Tongren	Guizhou	SW	15	0	13	16	19	1	14	29	29
Zunyi	Guizhou	SW	19	2	7	37	35	3	15	58	81
Baise	Guangxi	SW	28	3	7	63	37	4	6	59	30
Beihai	Guangxi	SW	16	2	6	42	24	5	5	59	53
Chongzuo	Guangxi	SW	20	2	5	38	29	5	7	63	48
Fangchenggang	Guangxi	SW	18	2	7	46	26	6	7	66	44
Guigang	Guangxi	SW	37	3	17	73	39	7	11	85	5
Guilin	Guangxi	SW	25	2	14	41	43	5	10	66	72
Hechi	Guangxi	SW	28	3	16	55	42	5	11	70	49
Hezhou	Guangxi	SW	31	2	20	44	37	6	10	72	22
Laibin	Guangxi	SW	34	3	15	70	39	6	11	80	16
Liuzhou	Guangxi	SW	34	3	16	68	45	7	14	83	34
Nanning	Guangxi	SW	27	4	8	62	37	7	7	70	37
Qinzhou	Guangxi	SW	22	3	10	47	29	6	7	69	32

Wuzhou	Guangxi	SW	32	3	19	56	36	5	13	60	10
Yulin	Guangxi	SW	30	3	11	53	32	5	13	65	6
Geleg	Qinghai	TP	34	2	22	47	49	3	40	80	42
Haidong	Qinghai	TP	41	2	28	56	42	4	29	72	1
Xining	Qinghai	TP	33	2	15	62	33	2	25	48	1
Ali	Tibet	TP	14	2	7	33	11	1	5	21	19
Qamdo	Tibet	TP	17	1	9	35	14	1	8	18	14
Lhasa	Tibet	TP	18	1	10	36	19	2	12	39	7
Nyingchi	Tibet	TP	8	0	5	12	6	0	5	8	22
Naqu	Tibet	TP	35	4	16	77	40	4	26	68	12
Shigatse	Tibet	TP	16	2	5	37	13	1	7	26	22
Lhoka	Tibet	TP	9	1	3	14	5	0	4	7	43

120 ^aNC, NE, NW, SE, SW, TP represent north China, northeast China, northwest China, southeast China, southwest China, and the Tibetan Plateau,
121 respectively.

122 ^bNegative values with red color mean significant ($p < 0.05$ or 0.01) reduction, and positive values mean increase.

123 Table S2. Summary of daily average $\text{PM}_{2.5}$ concentrations ($\mu\text{g m}^{-3}$) during the pre-Parade Blue, Parade Blue and post-Parade Blue periods in the
124 291 cities across China.

City	Province	Region ^a	Pre-Parade Blue period ^b				Parade Blue period ^b				Post-Parade Blue period ^b			
			Mean	SE	Min	Max	Mean	SE	Min	Max	Mean	SE	Min	Max
Beijing	Municipality	EC	59	6	17	119	17	2	8	33	52	8	7	146
Tianjing	Municipality	EC	62	5	20	116	32	4	15	77	47	5	9	116
Baoding	Hebei	EC	88	7	29	148	35	4	16	75	66	8	15	159
Cangzhou	Hebei	EC	59	6	17	119	17	2	8	33	39	5	9	88
Chengde	Hebei	EC	31	4	11	73	14	0	11	17	28	4	9	95

<u>Handan</u>	<u>Hebei</u>	<u>EC</u>	<u>81</u>	<u>7</u>	<u>35</u>	<u>147</u>	<u>52</u>	<u>7</u>	<u>9</u>	<u>91</u>	<u>63</u>	<u>6</u>	<u>15</u>	<u>131</u>
<u>Hengshui</u>	<u>Hebei</u>	<u>EC</u>	<u>91</u>	<u>7</u>	<u>33</u>	<u>159</u>	<u>47</u>	<u>5</u>	<u>25</u>	<u>92</u>	<u>76</u>	<u>8</u>	<u>24</u>	<u>167</u>
<u>Langfang</u>	<u>Hebei</u>	<u>EC</u>	<u>69</u>	<u>6</u>	<u>17</u>	<u>113</u>	<u>24</u>	<u>4</u>	<u>5</u>	<u>78</u>	<u>54</u>	<u>7</u>	<u>4</u>	<u>132</u>
<u>Qinhuangdao</u>	<u>Hebei</u>	<u>EC</u>	<u>45</u>	<u>6</u>	<u>10</u>	<u>92</u>	<u>7</u>	<u>1</u>	<u>4</u>	<u>23</u>	<u>15</u>	<u>2</u>	<u>4</u>	<u>46</u>
<u>Shijiazhuang</u>	<u>Hebei</u>	<u>EC</u>	<u>78</u>	<u>7</u>	<u>20</u>	<u>128</u>	<u>35</u>	<u>5</u>	<u>6</u>	<u>77</u>	<u>45</u>	<u>5</u>	<u>11</u>	<u>98</u>
<u>Tangshan</u>	<u>Hebei</u>	<u>EC</u>	<u>73</u>	<u>6</u>	<u>25</u>	<u>118</u>	<u>13</u>	<u>2</u>	<u>4</u>	<u>29</u>	<u>43</u>	<u>5</u>	<u>8</u>	<u>91</u>
<u>Xingtai</u>	<u>Hebei</u>	<u>EC</u>	<u>83</u>	<u>7</u>	<u>30</u>	<u>144</u>	<u>45</u>	<u>7</u>	<u>8</u>	<u>101</u>	<u>60</u>	<u>5</u>	<u>17</u>	<u>103</u>
<u>Zhangjiakou</u>	<u>Hebei</u>	<u>EC</u>	<u>29</u>	<u>3</u>	<u>17</u>	<u>66</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>27</u>	<u>27</u>	<u>4</u>	<u>11</u>	<u>71</u>
<u>Changzhi</u>	<u>Shanxi</u>	<u>EC</u>	<u>59</u>	<u>5</u>	<u>22</u>	<u>96</u>	<u>39</u>	<u>3</u>	<u>25</u>	<u>55</u>	<u>47</u>	<u>3</u>	<u>15</u>	<u>79</u>
<u>Datong</u>	<u>Shanxi</u>	<u>EC</u>	<u>26</u>	<u>2</u>	<u>13</u>	<u>59</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>22</u>	<u>27</u>	<u>3</u>	<u>9</u>	<u>71</u>
<u>Jincheng</u>	<u>Shanxi</u>	<u>EC</u>	<u>41</u>	<u>3</u>	<u>11</u>	<u>69</u>	<u>37</u>	<u>3</u>	<u>19</u>	<u>70</u>	<u>37</u>	<u>4</u>	<u>8</u>	<u>104</u>
<u>Jinzhong</u>	<u>Shanxi</u>	<u>EC</u>	<u>39</u>	<u>3</u>	<u>21</u>	<u>71</u>	<u>26</u>	<u>3</u>	<u>11</u>	<u>51</u>	<u>43</u>	<u>4</u>	<u>8</u>	<u>88</u>
<u>Linfen</u>	<u>Shanxi</u>	<u>EC</u>	<u>32</u>	<u>2</u>	<u>19</u>	<u>44</u>	<u>27</u>	<u>2</u>	<u>17</u>	<u>43</u>	<u>40</u>	<u>3</u>	<u>11</u>	<u>63</u>
<u>Lvliang</u>	<u>Shanxi</u>	<u>EC</u>	<u>46</u>	<u>4</u>	<u>17</u>	<u>88</u>	<u>29</u>	<u>2</u>	<u>18</u>	<u>40</u>	<u>46</u>	<u>4</u>	<u>18</u>	<u>85</u>
<u>Shuozhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>39</u>	<u>2</u>	<u>18</u>	<u>54</u>	<u>28</u>	<u>1</u>	<u>22</u>	<u>36</u>	<u>39</u>	<u>4</u>	<u>17</u>	<u>89</u>
<u>Taiyuan</u>	<u>Shanxi</u>	<u>EC</u>	<u>44</u>	<u>3</u>	<u>26</u>	<u>73</u>	<u>23</u>	<u>3</u>	<u>9</u>	<u>55</u>	<u>46</u>	<u>5</u>	<u>10</u>	<u>106</u>
<u>Xinzhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>39</u>	<u>3</u>	<u>23</u>	<u>61</u>	<u>20</u>	<u>2</u>	<u>12</u>	<u>36</u>	<u>44</u>	<u>5</u>	<u>12</u>	<u>107</u>
<u>Yangquan</u>	<u>Shanxi</u>	<u>EC</u>	<u>38</u>	<u>3</u>	<u>16</u>	<u>64</u>	<u>19</u>	<u>2</u>	<u>9</u>	<u>31</u>	<u>36</u>	<u>4</u>	<u>6</u>	<u>70</u>
<u>Yuncheng</u>	<u>Shanxi</u>	<u>EC</u>	<u>58</u>	<u>3</u>	<u>29</u>	<u>78</u>	<u>48</u>	<u>3</u>	<u>29</u>	<u>69</u>	<u>38</u>	<u>2</u>	<u>16</u>	<u>68</u>
<u>Binzhou</u>	<u>Shandong</u>	<u>EC</u>	<u>49</u>	<u>5</u>	<u>12</u>	<u>94</u>	<u>37</u>	<u>4</u>	<u>18</u>	<u>69</u>	<u>51</u>	<u>6</u>	<u>12</u>	<u>139</u>
<u>Dezhou</u>	<u>Shandong</u>	<u>EC</u>	<u>89</u>	<u>6</u>	<u>25</u>	<u>133</u>	<u>44</u>	<u>4</u>	<u>23</u>	<u>85</u>	<u>72</u>	<u>8</u>	<u>22</u>	<u>159</u>
<u>Dongying</u>	<u>Shandong</u>	<u>EC</u>	<u>65</u>	<u>7</u>	<u>21</u>	<u>123</u>	<u>43</u>	<u>4</u>	<u>21</u>	<u>80</u>	<u>51</u>	<u>6</u>	<u>13</u>	<u>117</u>
<u>Jinan</u>	<u>Shandong</u>	<u>EC</u>	<u>59</u>	<u>5</u>	<u>21</u>	<u>87</u>	<u>50</u>	<u>4</u>	<u>30</u>	<u>82</u>	<u>72</u>	<u>5</u>	<u>23</u>	<u>118</u>
<u>Jining</u>	<u>Shandong</u>	<u>EC</u>	<u>50</u>	<u>5</u>	<u>22</u>	<u>103</u>	<u>49</u>	<u>3</u>	<u>34</u>	<u>78</u>	<u>58</u>	<u>4</u>	<u>21</u>	<u>101</u>
<u>Laiwu</u>	<u>Shandong</u>	<u>EC</u>	<u>54</u>	<u>6</u>	<u>19</u>	<u>98</u>	<u>65</u>	<u>5</u>	<u>40</u>	<u>101</u>	<u>62</u>	<u>5</u>	<u>19</u>	<u>122</u>
<u>Liaocheng</u>	<u>Shandong</u>	<u>EC</u>	<u>67</u>	<u>6</u>	<u>24</u>	<u>105</u>	<u>49</u>	<u>5</u>	<u>17</u>	<u>80</u>	<u>73</u>	<u>6</u>	<u>27</u>	<u>122</u>

<u>Linyi</u>	<u>Shandong</u>	<u>EC</u>	<u>37</u>	<u>4</u>	<u>15</u>	<u>76</u>	<u>43</u>	<u>4</u>	<u>25</u>	<u>78</u>	<u>45</u>	<u>6</u>	<u>13</u>	<u>133</u>
<u>Qingdao</u>	<u>Shandong</u>	<u>EC</u>	<u>35</u>	<u>4</u>	<u>9</u>	<u>60</u>	<u>30</u>	<u>3</u>	<u>14</u>	<u>71</u>	<u>25</u>	<u>3</u>	<u>9</u>	<u>71</u>
<u>Rizhao</u>	<u>Shandong</u>	<u>EC</u>	<u>39</u>	<u>4</u>	<u>8</u>	<u>75</u>	<u>40</u>	<u>5</u>	<u>16</u>	<u>74</u>	<u>37</u>	<u>5</u>	<u>7</u>	<u>93</u>
<u>Tai'an</u>	<u>Shandong</u>	<u>EC</u>	<u>42</u>	<u>4</u>	<u>21</u>	<u>76</u>	<u>40</u>	<u>3</u>	<u>20</u>	<u>67</u>	<u>51</u>	<u>4</u>	<u>20</u>	<u>92</u>
<u>Weihai</u>	<u>Shandong</u>	<u>EC</u>	<u>38</u>	<u>4</u>	<u>19</u>	<u>74</u>	<u>22</u>	<u>2</u>	<u>7</u>	<u>31</u>	<u>20</u>	<u>2</u>	<u>7</u>	<u>47</u>
<u>Weifang</u>	<u>Shandong</u>	<u>EC</u>	<u>51</u>	<u>6</u>	<u>17</u>	<u>102</u>	<u>55</u>	<u>7</u>	<u>25</u>	<u>115</u>	<u>50</u>	<u>7</u>	<u>17</u>	<u>170</u>
<u>Yantai</u>	<u>Shandong</u>	<u>EC</u>	<u>39</u>	<u>5</u>	<u>14</u>	<u>87</u>	<u>23</u>	<u>2</u>	<u>9</u>	<u>36</u>	<u>23</u>	<u>2</u>	<u>9</u>	<u>63</u>
<u>Zaozhuang</u>	<u>Shandong</u>	<u>EC</u>	<u>45</u>	<u>5</u>	<u>16</u>	<u>83</u>	<u>51</u>	<u>3</u>	<u>40</u>	<u>74</u>	<u>60</u>	<u>6</u>	<u>9</u>	<u>144</u>
<u>Zibo</u>	<u>Shandong</u>	<u>EC</u>	<u>56</u>	<u>4</u>	<u>29</u>	<u>90</u>	<u>55</u>	<u>4</u>	<u>35</u>	<u>89</u>	<u>68</u>	<u>6</u>	<u>26</u>	<u>135</u>
<u>Alxa League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>38</u>	<u>3</u>	<u>18</u>	<u>66</u>	<u>33</u>	<u>1</u>	<u>22</u>	<u>40</u>	<u>36</u>	<u>2</u>	<u>21</u>	<u>60</u>
<u>Bayannur</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>33</u>	<u>3</u>	<u>15</u>	<u>56</u>	<u>32</u>	<u>1</u>	<u>21</u>	<u>41</u>	<u>39</u>	<u>3</u>	<u>22</u>	<u>71</u>
<u>Baotou</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>35</u>	<u>3</u>	<u>11</u>	<u>56</u>	<u>22</u>	<u>1</u>	<u>13</u>	<u>30</u>	<u>33</u>	<u>3</u>	<u>8</u>	<u>74</u>
<u>Chifeng</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>22</u>	<u>2</u>	<u>10</u>	<u>47</u>	<u>13</u>	<u>1</u>	<u>11</u>	<u>18</u>	<u>25</u>	<u>3</u>	<u>7</u>	<u>69</u>
<u>Ordos</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>22</u>	<u>3</u>	<u>5</u>	<u>40</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>22</u>	<u>3</u>	<u>6</u>	<u>61</u>
<u>Hohhot</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>23</u>	<u>2</u>	<u>8</u>	<u>43</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>23</u>	<u>27</u>	<u>3</u>	<u>5</u>	<u>64</u>
<u>Hulun Buir</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>28</u>	<u>2</u>	<u>18</u>	<u>48</u>	<u>26</u>	<u>2</u>	<u>16</u>	<u>38</u>	<u>22</u>	<u>1</u>	<u>15</u>	<u>36</u>
<u>Tongliao</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>46</u>	<u>6</u>	<u>17</u>	<u>99</u>	<u>25</u>	<u>3</u>	<u>17</u>	<u>55</u>	<u>27</u>	<u>3</u>	<u>13</u>	<u>74</u>
<u>Wuhai</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>42</u>	<u>4</u>	<u>18</u>	<u>85</u>	<u>30</u>	<u>2</u>	<u>18</u>	<u>44</u>	<u>51</u>	<u>5</u>	<u>18</u>	<u>109</u>
<u>Hinggan League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>27</u>	<u>2</u>	<u>15</u>	<u>37</u>	<u>21</u>	<u>1</u>	<u>15</u>	<u>28</u>	<u>18</u>	<u>1</u>	<u>8</u>	<u>33</u>
<u>Anyang</u>	<u>Henan</u>	<u>EC</u>	<u>61</u>	<u>5</u>	<u>30</u>	<u>106</u>	<u>46</u>	<u>5</u>	<u>16</u>	<u>82</u>	<u>68</u>	<u>6</u>	<u>29</u>	<u>158</u>
<u>Hebi</u>	<u>Henan</u>	<u>EC</u>	<u>50</u>	<u>4</u>	<u>26</u>	<u>76</u>	<u>31</u>	<u>4</u>	<u>10</u>	<u>61</u>	<u>44</u>	<u>4</u>	<u>20</u>	<u>92</u>
<u>Jiaozuo</u>	<u>Henan</u>	<u>EC</u>	<u>40</u>	<u>3</u>	<u>13</u>	<u>61</u>	<u>41</u>	<u>4</u>	<u>12</u>	<u>63</u>	<u>37</u>	<u>3</u>	<u>15</u>	<u>70</u>
<u>Kaifeng</u>	<u>Henan</u>	<u>EC</u>	<u>45</u>	<u>4</u>	<u>21</u>	<u>81</u>	<u>38</u>	<u>4</u>	<u>17</u>	<u>69</u>	<u>54</u>	<u>5</u>	<u>20</u>	<u>124</u>
<u>Luoyang</u>	<u>Henan</u>	<u>EC</u>	<u>56</u>	<u>6</u>	<u>20</u>	<u>95</u>	<u>41</u>	<u>3</u>	<u>21</u>	<u>56</u>	<u>41</u>	<u>4</u>	<u>12</u>	<u>80</u>
<u>Luohe</u>	<u>Henan</u>	<u>EC</u>	<u>48</u>	<u>5</u>	<u>21</u>	<u>87</u>	<u>52</u>	<u>3</u>	<u>31</u>	<u>71</u>	<u>81</u>	<u>7</u>	<u>32</u>	<u>194</u>
<u>Nanyang</u>	<u>Henan</u>	<u>EC</u>	<u>49</u>	<u>4</u>	<u>22</u>	<u>84</u>	<u>56</u>	<u>4</u>	<u>31</u>	<u>85</u>	<u>55</u>	<u>4</u>	<u>33</u>	<u>97</u>

<u>Pingdingshan</u>	<u>Henan</u>	<u>EC</u>	<u>53</u>	<u>6</u>	<u>19</u>	<u>91</u>	<u>50</u>	<u>3</u>	<u>33</u>	<u>73</u>	<u>68</u>	<u>5</u>	<u>29</u>	<u>142</u>
<u>Sanmenxia</u>	<u>Henan</u>	<u>EC</u>	<u>58</u>	<u>5</u>	<u>17</u>	<u>94</u>	<u>39</u>	<u>3</u>	<u>20</u>	<u>56</u>	<u>36</u>	<u>3</u>	<u>8</u>	<u>66</u>
<u>Shangqiu</u>	<u>Henan</u>	<u>EC</u>	<u>41</u>	<u>4</u>	<u>19</u>	<u>88</u>	<u>40</u>	<u>4</u>	<u>18</u>	<u>79</u>	<u>47</u>	<u>4</u>	<u>18</u>	<u>102</u>
<u>Xinyang</u>	<u>Henan</u>	<u>EC</u>	<u>29</u>	<u>4</u>	<u>13</u>	<u>67</u>	<u>40</u>	<u>3</u>	<u>22</u>	<u>61</u>	<u>47</u>	<u>4</u>	<u>15</u>	<u>94</u>
<u>Zhengzhou</u>	<u>Henan</u>	<u>EC</u>	<u>61</u>	<u>6</u>	<u>25</u>	<u>112</u>	<u>50</u>	<u>6</u>	<u>17</u>	<u>98</u>	<u>70</u>	<u>6</u>	<u>31</u>	<u>162</u>
<u>Zhoukou</u>	<u>Henan</u>	<u>EC</u>	<u>36</u>	<u>3</u>	<u>22</u>	<u>60</u>	<u>42</u>	<u>3</u>	<u>21</u>	<u>58</u>	<u>68</u>	<u>6</u>	<u>26</u>	<u>146</u>
<u>Zhumadian</u>	<u>Henan</u>	<u>EC</u>	<u>41</u>	<u>4</u>	<u>16</u>	<u>76</u>	<u>41</u>	<u>3</u>	<u>16</u>	<u>59</u>	<u>60</u>	<u>6</u>	<u>20</u>	<u>130</u>
<u>Anshan</u>	<u>Liaoning</u>	<u>NEC</u>	<u>42</u>	<u>5</u>	<u>14</u>	<u>72</u>	<u>43</u>	<u>2</u>	<u>30</u>	<u>59</u>	<u>41</u>	<u>4</u>	<u>17</u>	<u>95</u>
<u>Benxi</u>	<u>Liaoning</u>	<u>NEC</u>	<u>34</u>	<u>3</u>	<u>17</u>	<u>72</u>	<u>30</u>	<u>2</u>	<u>12</u>	<u>45</u>	<u>31</u>	<u>3</u>	<u>11</u>	<u>61</u>
<u>Chaoyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>30</u>	<u>4</u>	<u>13</u>	<u>65</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>25</u>	<u>30</u>	<u>5</u>	<u>9</u>	<u>105</u>
<u>Dalian</u>	<u>Liaoning</u>	<u>NEC</u>	<u>41</u>	<u>5</u>	<u>13</u>	<u>97</u>	<u>23</u>	<u>3</u>	<u>11</u>	<u>52</u>	<u>24</u>	<u>2</u>	<u>8</u>	<u>59</u>
<u>Dandong</u>	<u>Liaoning</u>	<u>NEC</u>	<u>24</u>	<u>4</u>	<u>1</u>	<u>51</u>	<u>20</u>	<u>2</u>	<u>8</u>	<u>28</u>	<u>26</u>	<u>2</u>	<u>8</u>	<u>53</u>
<u>Fushun</u>	<u>Liaoning</u>	<u>NEC</u>	<u>27</u>	<u>3</u>	<u>12</u>	<u>63</u>	<u>18</u>	<u>2</u>	<u>6</u>	<u>28</u>	<u>28</u>	<u>3</u>	<u>6</u>	<u>54</u>
<u>Fuxin</u>	<u>Liaoning</u>	<u>NEC</u>	<u>44</u>	<u>6</u>	<u>11</u>	<u>97</u>	<u>18</u>	<u>2</u>	<u>9</u>	<u>34</u>	<u>32</u>	<u>3</u>	<u>10</u>	<u>83</u>
<u>Huludao</u>	<u>Liaoning</u>	<u>NEC</u>	<u>66</u>	<u>9</u>	<u>20</u>	<u>137</u>	<u>24</u>	<u>2</u>	<u>15</u>	<u>48</u>	<u>34</u>	<u>4</u>	<u>9</u>	<u>92</u>
<u>Jinzhou</u>	<u>Liaoning</u>	<u>NEC</u>	<u>58</u>	<u>8</u>	<u>23</u>	<u>125</u>	<u>19</u>	<u>2</u>	<u>10</u>	<u>44</u>	<u>34</u>	<u>4</u>	<u>10</u>	<u>85</u>
<u>Liaoyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>36</u>	<u>4</u>	<u>11</u>	<u>69</u>	<u>31</u>	<u>2</u>	<u>18</u>	<u>41</u>	<u>34</u>	<u>3</u>	<u>11</u>	<u>80</u>
<u>Panjin</u>	<u>Liaoning</u>	<u>NEC</u>	<u>41</u>	<u>6</u>	<u>13</u>	<u>93</u>	<u>18</u>	<u>2</u>	<u>10</u>	<u>43</u>	<u>26</u>	<u>3</u>	<u>7</u>	<u>59</u>
<u>Shenyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>36</u>	<u>4</u>	<u>16</u>	<u>66</u>	<u>23</u>	<u>2</u>	<u>11</u>	<u>35</u>	<u>36</u>	<u>4</u>	<u>10</u>	<u>77</u>
<u>Tieling</u>	<u>Liaoning</u>	<u>NEC</u>	<u>28</u>	<u>3</u>	<u>13</u>	<u>53</u>	<u>17</u>	<u>2</u>	<u>7</u>	<u>31</u>	<u>28</u>	<u>3</u>	<u>11</u>	<u>71</u>
<u>Wafangdian</u>	<u>Liaoning</u>	<u>NEC</u>	<u>48</u>	<u>6</u>	<u>19</u>	<u>103</u>	<u>27</u>	<u>1</u>	<u>21</u>	<u>38</u>	<u>38</u>	<u>3</u>	<u>13</u>	<u>84</u>
<u>Yingkou</u>	<u>Liaoning</u>	<u>NEC</u>	<u>25</u>	<u>3</u>	<u>11</u>	<u>45</u>	<u>23</u>	<u>3</u>	<u>9</u>	<u>51</u>	<u>22</u>	<u>3</u>	<u>5</u>	<u>66</u>
<u>Baicheng</u>	<u>Jilin</u>	<u>NEC</u>	<u>47</u>	<u>2</u>	<u>36</u>	<u>63</u>	<u>42</u>	<u>1</u>	<u>32</u>	<u>51</u>	<u>36</u>	<u>2</u>	<u>22</u>	<u>61</u>
<u>Baishan</u>	<u>Jilin</u>	<u>NEC</u>	<u>29</u>	<u>3</u>	<u>15</u>	<u>52</u>	<u>25</u>	<u>2</u>	<u>17</u>	<u>38</u>	<u>30</u>	<u>2</u>	<u>17</u>	<u>43</u>
<u>Changchun</u>	<u>Jilin</u>	<u>NEC</u>	<u>29</u>	<u>4</u>	<u>16</u>	<u>73</u>	<u>23</u>	<u>2</u>	<u>8</u>	<u>39</u>	<u>27</u>	<u>2</u>	<u>12</u>	<u>63</u>
<u>Jilin</u>	<u>Jilin</u>	<u>NEC</u>	<u>19</u>	<u>2</u>	<u>10</u>	<u>39</u>	<u>18</u>	<u>2</u>	<u>8</u>	<u>30</u>	<u>24</u>	<u>2</u>	<u>13</u>	<u>54</u>

<u>Liaoyuan</u>	<u>Jilin</u>	<u>NEC</u>	<u>36</u>	<u>5</u>	<u>13</u>	<u>76</u>	<u>36</u>	<u>6</u>	<u>14</u>	<u>81</u>	<u>36</u>	<u>3</u>	<u>17</u>	<u>79</u>
<u>Siping</u>	<u>Jilin</u>	<u>NEC</u>	<u>35</u>	<u>5</u>	<u>15</u>	<u>89</u>	<u>23</u>	<u>2</u>	<u>12</u>	<u>38</u>	<u>33</u>	<u>3</u>	<u>15</u>	<u>80</u>
<u>Songyuan</u>	<u>Jilin</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>10</u>	<u>36</u>	<u>13</u>	<u>1</u>	<u>5</u>	<u>23</u>	<u>19</u>	<u>2</u>	<u>8</u>	<u>41</u>
<u>Daqing</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>30</u>	<u>2</u>	<u>17</u>	<u>51</u>	<u>21</u>	<u>1</u>	<u>15</u>	<u>33</u>	<u>22</u>	<u>2</u>	<u>13</u>	<u>42</u>
<u>Daxinganling</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>13</u>	<u>2</u>	<u>5</u>	<u>40</u>	<u>10</u>	<u>1</u>	<u>7</u>	<u>14</u>	<u>13</u>	<u>1</u>	<u>4</u>	<u>29</u>
<u>Harbin</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>15</u>	<u>38</u>	<u>18</u>	<u>2</u>	<u>11</u>	<u>35</u>	<u>21</u>	<u>2</u>	<u>10</u>	<u>42</u>
<u>Hegang</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>47</u>	<u>2</u>	<u>33</u>	<u>70</u>	<u>28</u>	<u>4</u>	<u>6</u>	<u>61</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>27</u>
<u>Heihe</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>33</u>	<u>1</u>	<u>26</u>	<u>44</u>	<u>27</u>	<u>1</u>	<u>18</u>	<u>34</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>33</u>
<u>Jixi</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>14</u>	<u>25</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>27</u>	<u>19</u>	<u>1</u>	<u>9</u>	<u>32</u>
<u>Jiamusi</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>6</u>	<u>24</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>29</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>17</u>
<u>Mudanjiang</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>16</u>	<u>27</u>	<u>22</u>	<u>1</u>	<u>14</u>	<u>33</u>	<u>23</u>	<u>1</u>	<u>16</u>	<u>38</u>
<u>Qitaihe</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>17</u>	<u>32</u>	<u>21</u>	<u>1</u>	<u>14</u>	<u>33</u>	<u>25</u>	<u>1</u>	<u>13</u>	<u>39</u>
<u>Qiqihar</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>19</u>	<u>2</u>	<u>7</u>	<u>31</u>	<u>13</u>	<u>1</u>	<u>6</u>	<u>22</u>	<u>16</u>	<u>1</u>	<u>6</u>	<u>31</u>
<u>Shuangyashan</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>23</u>	<u>1</u>	<u>17</u>	<u>28</u>	<u>26</u>	<u>1</u>	<u>19</u>	<u>34</u>	<u>20</u>	<u>1</u>	<u>10</u>	<u>31</u>
<u>Suihua</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>9</u>	<u>26</u>	<u>11</u>	<u>1</u>	<u>8</u>	<u>15</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>29</u>
<u>Ankang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>7</u>	<u>43</u>	<u>27</u>	<u>2</u>	<u>13</u>	<u>44</u>	<u>37</u>	<u>3</u>	<u>13</u>	<u>63</u>
<u>Baoji</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>38</u>	<u>5</u>	<u>11</u>	<u>78</u>	<u>34</u>	<u>4</u>	<u>11</u>	<u>68</u>	<u>35</u>	<u>4</u>	<u>8</u>	<u>71</u>
<u>Hanzhong</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>27</u>	<u>3</u>	<u>10</u>	<u>60</u>	<u>32</u>	<u>2</u>	<u>18</u>	<u>40</u>	<u>32</u>	<u>2</u>	<u>9</u>	<u>58</u>
<u>Shangluo</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>28</u>	<u>3</u>	<u>9</u>	<u>65</u>	<u>27</u>	<u>2</u>	<u>14</u>	<u>42</u>	<u>35</u>	<u>3</u>	<u>12</u>	<u>65</u>
<u>Tongchuan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>36</u>	<u>4</u>	<u>12</u>	<u>71</u>	<u>32</u>	<u>2</u>	<u>14</u>	<u>45</u>	<u>37</u>	<u>3</u>	<u>11</u>	<u>60</u>
<u>Weinan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>36</u>	<u>3</u>	<u>8</u>	<u>58</u>	<u>34</u>	<u>3</u>	<u>17</u>	<u>52</u>	<u>55</u>	<u>5</u>	<u>10</u>	<u>119</u>
<u>Xi'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>45</u>	<u>4</u>	<u>13</u>	<u>73</u>	<u>40</u>	<u>3</u>	<u>20</u>	<u>66</u>	<u>38</u>	<u>3</u>	<u>11</u>	<u>77</u>
<u>Xianyang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>38</u>	<u>4</u>	<u>10</u>	<u>60</u>	<u>35</u>	<u>3</u>	<u>19</u>	<u>55</u>	<u>43</u>	<u>4</u>	<u>14</u>	<u>94</u>
<u>Yan'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>33</u>	<u>3</u>	<u>14</u>	<u>59</u>	<u>24</u>	<u>2</u>	<u>14</u>	<u>44</u>	<u>36</u>	<u>4</u>	<u>12</u>	<u>70</u>
<u>Yulin</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>30</u>	<u>3</u>	<u>12</u>	<u>53</u>	<u>20</u>	<u>2</u>	<u>9</u>	<u>33</u>	<u>31</u>	<u>3</u>	<u>5</u>	<u>75</u>
<u>Baiying</u>	<u>Gansu</u>	<u>NEC</u>	<u>26</u>	<u>3</u>	<u>9</u>	<u>65</u>	<u>27</u>	<u>1</u>	<u>21</u>	<u>33</u>	<u>26</u>	<u>2</u>	<u>9</u>	<u>47</u>

<u>Dingxi</u>	<u>Gansu</u>	<u>NEC</u>	<u>21</u>	<u>1</u>	<u>9</u>	<u>29</u>	<u>28</u>	<u>1</u>	<u>19</u>	<u>36</u>	<u>22</u>	<u>1</u>	<u>14</u>	<u>32</u>
<u>Gannan</u>	<u>Gansu</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>33</u>	<u>26</u>	<u>3</u>	<u>15</u>	<u>53</u>	<u>21</u>	<u>2</u>	<u>9</u>	<u>42</u>
<u>Jiayuguan</u>	<u>Gansu</u>	<u>NEC</u>	<u>23</u>	<u>5</u>	<u>10</u>	<u>86</u>	<u>26</u>	<u>3</u>	<u>12</u>	<u>58</u>	<u>17</u>	<u>2</u>	<u>7</u>	<u>48</u>
<u>Jiuquan</u>	<u>Gansu</u>	<u>NEC</u>	<u>36</u>	<u>6</u>	<u>19</u>	<u>121</u>	<u>35</u>	<u>3</u>	<u>18</u>	<u>61</u>	<u>26</u>	<u>1</u>	<u>17</u>	<u>51</u>
<u>Lanzhou</u>	<u>Gansu</u>	<u>NEC</u>	<u>36</u>	<u>2</u>	<u>19</u>	<u>62</u>	<u>32</u>	<u>1</u>	<u>24</u>	<u>38</u>	<u>35</u>	<u>2</u>	<u>18</u>	<u>57</u>
<u>Linxia</u>	<u>Gansu</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>7</u>	<u>28</u>	<u>21</u>	<u>2</u>	<u>12</u>	<u>35</u>	<u>23</u>	<u>1</u>	<u>13</u>	<u>31</u>
<u>Pingliang</u>	<u>Gansu</u>	<u>NEC</u>	<u>30</u>	<u>3</u>	<u>10</u>	<u>68</u>	<u>20</u>	<u>2</u>	<u>12</u>	<u>29</u>	<u>23</u>	<u>2</u>	<u>10</u>	<u>55</u>
<u>Qingyang</u>	<u>Gansu</u>	<u>NEC</u>	<u>22</u>	<u>3</u>	<u>7</u>	<u>57</u>	<u>20</u>	<u>2</u>	<u>11</u>	<u>31</u>	<u>20</u>	<u>2</u>	<u>5</u>	<u>39</u>
<u>Tianshui</u>	<u>Gansu</u>	<u>NEC</u>	<u>18</u>	<u>3</u>	<u>6</u>	<u>67</u>	<u>14</u>	<u>2</u>	<u>6</u>	<u>30</u>	<u>11</u>	<u>1</u>	<u>4</u>	<u>22</u>
<u>Wuwei</u>	<u>Gansu</u>	<u>NEC</u>	<u>27</u>	<u>4</u>	<u>14</u>	<u>77</u>	<u>27</u>	<u>2</u>	<u>11</u>	<u>44</u>	<u>19</u>	<u>1</u>	<u>8</u>	<u>32</u>
<u>Zhangye</u>	<u>Gansu</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>9</u>	<u>54</u>	<u>17</u>	<u>2</u>	<u>5</u>	<u>30</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>44</u>
<u>Guyuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>25</u>	<u>3</u>	<u>9</u>	<u>53</u>	<u>22</u>	<u>1</u>	<u>14</u>	<u>32</u>	<u>20</u>	<u>2</u>	<u>9</u>	<u>39</u>
<u>Shizuishan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>30</u>	<u>3</u>	<u>13</u>	<u>51</u>	<u>23</u>	<u>1</u>	<u>12</u>	<u>31</u>	<u>32</u>	<u>3</u>	<u>7</u>	<u>71</u>
<u>Wuzhong</u>	<u>Ningxia</u>	<u>NEC</u>	<u>26</u>	<u>3</u>	<u>13</u>	<u>46</u>	<u>28</u>	<u>2</u>	<u>17</u>	<u>35</u>	<u>28</u>	<u>2</u>	<u>4</u>	<u>55</u>
<u>Yinchuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>41</u>	<u>3</u>	<u>21</u>	<u>68</u>	<u>34</u>	<u>3</u>	<u>18</u>	<u>50</u>	<u>32</u>	<u>2</u>	<u>11</u>	<u>54</u>
<u>Zhongwei</u>	<u>Ningxia</u>	<u>NEC</u>	<u>27</u>	<u>3</u>	<u>13</u>	<u>74</u>	<u>26</u>	<u>2</u>	<u>17</u>	<u>36</u>	<u>29</u>	<u>3</u>	<u>8</u>	<u>60</u>
<u>Aksu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>99</u>	<u>16</u>	<u>22</u>	<u>281</u>	<u>52</u>	<u>6</u>	<u>28</u>	<u>95</u>	<u>43</u>	<u>6</u>	<u>18</u>	<u>169</u>
<u>Hami</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>29</u>	<u>9</u>	<u>11</u>	<u>191</u>	<u>22</u>	<u>2</u>	<u>11</u>	<u>40</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>36</u>
<u>Hotan</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>130</u>	<u>29</u>	<u>26</u>	<u>646</u>	<u>82</u>	<u>12</u>	<u>21</u>	<u>180</u>	<u>61</u>	<u>8</u>	<u>19</u>	<u>215</u>
<u>Kashgar</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>103</u>	<u>20</u>	<u>25</u>	<u>329</u>	<u>45</u>	<u>10</u>	<u>10</u>	<u>141</u>	<u>59</u>	<u>8</u>	<u>12</u>	<u>156</u>
<u>Karamay</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>15</u>	<u>35</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>20</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>26</u>
<u>Kizilsu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>59</u>	<u>13</u>	<u>7</u>	<u>209</u>	<u>20</u>	<u>5</u>	<u>0</u>	<u>65</u>	<u>27</u>	<u>5</u>	<u>6</u>	<u>97</u>
<u>Shihezi</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>32</u>	<u>6</u>	<u>9</u>	<u>106</u>	<u>21</u>	<u>2</u>	<u>11</u>	<u>35</u>	<u>28</u>	<u>6</u>	<u>8</u>	<u>155</u>
<u>Urumchi</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>32</u>	<u>3</u>	<u>10</u>	<u>58</u>	<u>30</u>	<u>3</u>	<u>15</u>	<u>56</u>	<u>27</u>	<u>3</u>	<u>9</u>	<u>75</u>
<u>Wujiachu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>32</u>	<u>3</u>	<u>12</u>	<u>57</u>	<u>30</u>	<u>3</u>	<u>13</u>	<u>52</u>	<u>32</u>	<u>4</u>	<u>5</u>	<u>90</u>
<u>Yili</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>26</u>	<u>2</u>	<u>11</u>	<u>35</u>	<u>26</u>	<u>2</u>	<u>10</u>	<u>37</u>	<u>29</u>	<u>3</u>	<u>10</u>	<u>58</u>

<u>Ezhou</u>	<u>Hubei</u>	<u>NEC</u>	<u>33</u>	<u>4</u>	<u>8</u>	<u>67</u>	<u>51</u>	<u>3</u>	<u>22</u>	<u>71</u>	<u>49</u>	<u>2</u>	<u>18</u>	<u>72</u>
<u>Huanggang</u>	<u>Hubei</u>	<u>NEC</u>	<u>33</u>	<u>3</u>	<u>9</u>	<u>64</u>	<u>46</u>	<u>3</u>	<u>21</u>	<u>60</u>	<u>42</u>	<u>2</u>	<u>14</u>	<u>61</u>
<u>Jingmen</u>	<u>Hubei</u>	<u>NEC</u>	<u>32</u>	<u>4</u>	<u>13</u>	<u>77</u>	<u>57</u>	<u>5</u>	<u>23</u>	<u>84</u>	<u>66</u>	<u>4</u>	<u>21</u>	<u>120</u>
<u>Shiyan</u>	<u>Hubei</u>	<u>NEC</u>	<u>30</u>	<u>3</u>	<u>9</u>	<u>61</u>	<u>42</u>	<u>4</u>	<u>23</u>	<u>64</u>	<u>51</u>	<u>4</u>	<u>13</u>	<u>101</u>
<u>Wuhan</u>	<u>Hubei</u>	<u>NEC</u>	<u>32</u>	<u>3</u>	<u>13</u>	<u>62</u>	<u>53</u>	<u>4</u>	<u>24</u>	<u>76</u>	<u>47</u>	<u>2</u>	<u>19</u>	<u>64</u>
<u>Xianning</u>	<u>Hubei</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>10</u>	<u>62</u>	<u>57</u>	<u>3</u>	<u>25</u>	<u>69</u>	<u>44</u>	<u>2</u>	<u>18</u>	<u>61</u>
<u>Xiangyang</u>	<u>Hubei</u>	<u>NEC</u>	<u>33</u>	<u>4</u>	<u>10</u>	<u>74</u>	<u>45</u>	<u>4</u>	<u>24</u>	<u>74</u>	<u>55</u>	<u>4</u>	<u>19</u>	<u>94</u>
<u>Xiaogan</u>	<u>Hubei</u>	<u>NEC</u>	<u>36</u>	<u>3</u>	<u>19</u>	<u>61</u>	<u>57</u>	<u>3</u>	<u>31</u>	<u>76</u>	<u>53</u>	<u>3</u>	<u>30</u>	<u>85</u>
<u>Yichang</u>	<u>Hubei</u>	<u>NEC</u>	<u>29</u>	<u>4</u>	<u>10</u>	<u>74</u>	<u>48</u>	<u>4</u>	<u>26</u>	<u>84</u>	<u>48</u>	<u>4</u>	<u>10</u>	<u>79</u>
<u>Anqing</u>	<u>Anhui</u>	<u>NEC</u>	<u>38</u>	<u>3</u>	<u>14</u>	<u>58</u>	<u>35</u>	<u>3</u>	<u>14</u>	<u>58</u>	<u>39</u>	<u>2</u>	<u>11</u>	<u>57</u>
<u>Bengbu</u>	<u>Anhui</u>	<u>NEC</u>	<u>41</u>	<u>4</u>	<u>12</u>	<u>71</u>	<u>55</u>	<u>4</u>	<u>18</u>	<u>76</u>	<u>52</u>	<u>4</u>	<u>13</u>	<u>103</u>
<u>Bozhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>34</u>	<u>3</u>	<u>19</u>	<u>63</u>	<u>63</u>	<u>5</u>	<u>28</u>	<u>103</u>	<u>61</u>	<u>4</u>	<u>16</u>	<u>114</u>
<u>Chuzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>42</u>	<u>4</u>	<u>14</u>	<u>77</u>	<u>52</u>	<u>5</u>	<u>22</u>	<u>80</u>	<u>48</u>	<u>3</u>	<u>27</u>	<u>87</u>
<u>Fuyang</u>	<u>Anhui</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>13</u>	<u>61</u>	<u>47</u>	<u>3</u>	<u>25</u>	<u>76</u>	<u>37</u>	<u>3</u>	<u>10</u>	<u>71</u>
<u>Hefei</u>	<u>Anhui</u>	<u>NEC</u>	<u>35</u>	<u>4</u>	<u>8</u>	<u>60</u>	<u>43</u>	<u>4</u>	<u>13</u>	<u>65</u>	<u>40</u>	<u>3</u>	<u>15</u>	<u>63</u>
<u>Huabei</u>	<u>Anhui</u>	<u>NEC</u>	<u>37</u>	<u>4</u>	<u>14</u>	<u>86</u>	<u>41</u>	<u>2</u>	<u>22</u>	<u>51</u>	<u>45</u>	<u>4</u>	<u>16</u>	<u>85</u>
<u>Huainan</u>	<u>Anhui</u>	<u>NEC</u>	<u>23</u>	<u>3</u>	<u>6</u>	<u>53</u>	<u>41</u>	<u>4</u>	<u>9</u>	<u>62</u>	<u>40</u>	<u>4</u>	<u>7</u>	<u>89</u>
<u>Huangshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>22</u>	<u>2</u>	<u>6</u>	<u>37</u>	<u>35</u>	<u>5</u>	<u>10</u>	<u>62</u>	<u>28</u>	<u>2</u>	<u>10</u>	<u>45</u>
<u>Lu'an</u>	<u>Anhui</u>	<u>NEC</u>	<u>37</u>	<u>3</u>	<u>12</u>	<u>67</u>	<u>50</u>	<u>2</u>	<u>34</u>	<u>64</u>	<u>40</u>	<u>2</u>	<u>11</u>	<u>55</u>
<u>Ma'anshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>38</u>	<u>3</u>	<u>16</u>	<u>58</u>	<u>50</u>	<u>5</u>	<u>21</u>	<u>85</u>	<u>40</u>	<u>2</u>	<u>24</u>	<u>69</u>
<u>Suzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>56</u>	<u>7</u>	<u>22</u>	<u>111</u>	<u>58</u>	<u>4</u>	<u>34</u>	<u>79</u>	<u>58</u>	<u>6</u>	<u>16</u>	<u>151</u>
<u>Tongling</u>	<u>Anhui</u>	<u>NEC</u>	<u>42</u>	<u>4</u>	<u>14</u>	<u>80</u>	<u>54</u>	<u>5</u>	<u>24</u>	<u>85</u>	<u>34</u>	<u>2</u>	<u>19</u>	<u>51</u>
<u>Wuhu</u>	<u>Anhui</u>	<u>NEC</u>	<u>30</u>	<u>3</u>	<u>10</u>	<u>52</u>	<u>44</u>	<u>4</u>	<u>17</u>	<u>70</u>	<u>41</u>	<u>3</u>	<u>21</u>	<u>68</u>
<u>Changzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>11</u>	<u>67</u>	<u>40</u>	<u>5</u>	<u>8</u>	<u>61</u>	<u>29</u>	<u>2</u>	<u>16</u>	<u>63</u>
<u>Huaian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>32</u>	<u>3</u>	<u>10</u>	<u>59</u>	<u>45</u>	<u>4</u>	<u>12</u>	<u>74</u>	<u>29</u>	<u>2</u>	<u>10</u>	<u>60</u>
<u>Lianyungang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>33</u>	<u>4</u>	<u>9</u>	<u>64</u>	<u>42</u>	<u>5</u>	<u>13</u>	<u>90</u>	<u>31</u>	<u>4</u>	<u>6</u>	<u>85</u>

<u>Nanjing</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>29</u>	<u>3</u>	<u>7</u>	<u>47</u>	<u>39</u>	<u>4</u>	<u>13</u>	<u>63</u>	<u>28</u>	<u>2</u>	<u>14</u>	<u>63</u>
<u>Nantong</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>34</u>	<u>4</u>	<u>10</u>	<u>62</u>	<u>42</u>	<u>6</u>	<u>10</u>	<u>96</u>	<u>33</u>	<u>3</u>	<u>15</u>	<u>74</u>
<u>Suzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>33</u>	<u>3</u>	<u>9</u>	<u>54</u>	<u>54</u>	<u>7</u>	<u>15</u>	<u>96</u>	<u>36</u>	<u>3</u>	<u>13</u>	<u>78</u>
<u>Suqian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>37</u>	<u>3</u>	<u>12</u>	<u>67</u>	<u>45</u>	<u>3</u>	<u>18</u>	<u>71</u>	<u>37</u>	<u>4</u>	<u>8</u>	<u>103</u>
<u>Taizhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>36</u>	<u>4</u>	<u>10</u>	<u>68</u>	<u>38</u>	<u>4</u>	<u>13</u>	<u>62</u>	<u>34</u>	<u>3</u>	<u>16</u>	<u>64</u>
<u>Wuxi</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>35</u>	<u>3</u>	<u>12</u>	<u>59</u>	<u>52</u>	<u>6</u>	<u>15</u>	<u>90</u>	<u>38</u>	<u>2</u>	<u>18</u>	<u>77</u>
<u>Xuzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>10</u>	<u>56</u>	<u>38</u>	<u>2</u>	<u>26</u>	<u>52</u>	<u>36</u>	<u>4</u>	<u>14</u>	<u>84</u>
<u>Yanchen</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>30</u>	<u>4</u>	<u>8</u>	<u>67</u>	<u>29</u>	<u>3</u>	<u>8</u>	<u>49</u>	<u>23</u>	<u>2</u>	<u>10</u>	<u>58</u>
<u>Yangzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>9</u>	<u>57</u>	<u>38</u>	<u>3</u>	<u>17</u>	<u>55</u>	<u>30</u>	<u>3</u>	<u>11</u>	<u>67</u>
<u>Zhenjiang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>38</u>	<u>4</u>	<u>10</u>	<u>65</u>	<u>46</u>	<u>5</u>	<u>15</u>	<u>70</u>	<u>37</u>	<u>3</u>	<u>17</u>	<u>80</u>
<u>Shanghai</u>	<u>Municipality</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>9</u>	<u>54</u>	<u>56</u>	<u>8</u>	<u>11</u>	<u>122</u>	<u>30</u>	<u>2</u>	<u>10</u>	<u>71</u>
<u>Hangzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>32</u>	<u>3</u>	<u>9</u>	<u>63</u>	<u>43</u>	<u>5</u>	<u>12</u>	<u>74</u>	<u>39</u>	<u>3</u>	<u>12</u>	<u>69</u>
<u>Huzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>31</u>	<u>2</u>	<u>17</u>	<u>54</u>	<u>49</u>	<u>5</u>	<u>20</u>	<u>77</u>	<u>34</u>	<u>2</u>	<u>17</u>	<u>78</u>
<u>Jiaxing</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>32</u>	<u>3</u>	<u>10</u>	<u>47</u>	<u>52</u>	<u>6</u>	<u>16</u>	<u>99</u>	<u>37</u>	<u>3</u>	<u>13</u>	<u>85</u>
<u>Jinhua</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>33</u>	<u>3</u>	<u>13</u>	<u>57</u>	<u>53</u>	<u>6</u>	<u>19</u>	<u>100</u>	<u>47</u>	<u>4</u>	<u>16</u>	<u>93</u>
<u>Lishui</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>6</u>	<u>33</u>	<u>30</u>	<u>3</u>	<u>14</u>	<u>45</u>	<u>32</u>	<u>4</u>	<u>5</u>	<u>77</u>
<u>Ningbo</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>9</u>	<u>37</u>	<u>36</u>	<u>5</u>	<u>10</u>	<u>73</u>	<u>31</u>	<u>2</u>	<u>14</u>	<u>62</u>
<u>Quzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>33</u>	<u>3</u>	<u>13</u>	<u>57</u>	<u>52</u>	<u>6</u>	<u>19</u>	<u>81</u>	<u>37</u>	<u>3</u>	<u>15</u>	<u>66</u>
<u>Shaoxing</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>33</u>	<u>3</u>	<u>12</u>	<u>63</u>	<u>57</u>	<u>7</u>	<u>21</u>	<u>113</u>	<u>43</u>	<u>3</u>	<u>11</u>	<u>70</u>
<u>Taizhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>10</u>	<u>40</u>	<u>29</u>	<u>4</u>	<u>8</u>	<u>61</u>	<u>30</u>	<u>2</u>	<u>16</u>	<u>67</u>
<u>Wenjiang</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>30</u>	<u>2</u>	<u>15</u>	<u>42</u>	<u>30</u>	<u>3</u>	<u>12</u>	<u>47</u>	<u>31</u>	<u>2</u>	<u>15</u>	<u>52</u>
<u>Zhoushan</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>8</u>	<u>30</u>	<u>23</u>	<u>3</u>	<u>7</u>	<u>47</u>	<u>19</u>	<u>2</u>	<u>11</u>	<u>48</u>
<u>Fuzhou</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>28</u>	<u>2</u>	<u>15</u>	<u>50</u>	<u>44</u>	<u>4</u>	<u>16</u>	<u>74</u>	<u>41</u>	<u>2</u>	<u>15</u>	<u>60</u>
<u>Ganzhou</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>38</u>	<u>3</u>	<u>20</u>	<u>63</u>	<u>44</u>	<u>4</u>	<u>24</u>	<u>73</u>	<u>44</u>	<u>2</u>	<u>28</u>	<u>67</u>
<u>Ji'an</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>32</u>	<u>3</u>	<u>15</u>	<u>56</u>	<u>41</u>	<u>4</u>	<u>19</u>	<u>65</u>	<u>43</u>	<u>2</u>	<u>18</u>	<u>61</u>
<u>Jingdezhen</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>31</u>	<u>2</u>	<u>14</u>	<u>47</u>	<u>45</u>	<u>4</u>	<u>17</u>	<u>66</u>	<u>32</u>	<u>2</u>	<u>13</u>	<u>54</u>

<u>Jiujiang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>9</u>	<u>49</u>	<u>48</u>	<u>4</u>	<u>24</u>	<u>69</u>	<u>35</u>	<u>2</u>	<u>10</u>	<u>51</u>
<u>Nanchang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>8</u>	<u>36</u>	<u>40</u>	<u>4</u>	<u>10</u>	<u>68</u>	<u>29</u>	<u>2</u>	<u>7</u>	<u>55</u>
<u>Pingxiang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>13</u>	<u>40</u>	<u>49</u>	<u>5</u>	<u>15</u>	<u>78</u>	<u>44</u>	<u>3</u>	<u>18</u>	<u>62</u>
<u>Shangrao</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>41</u>	<u>3</u>	<u>19</u>	<u>61</u>	<u>38</u>	<u>4</u>	<u>20</u>	<u>71</u>	<u>32</u>	<u>2</u>	<u>17</u>	<u>65</u>
<u>Xinyu</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>10</u>	<u>36</u>	<u>38</u>	<u>4</u>	<u>15</u>	<u>59</u>	<u>34</u>	<u>2</u>	<u>11</u>	<u>47</u>
<u>Yichun</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>31</u>	<u>1</u>	<u>25</u>	<u>49</u>	<u>48</u>	<u>2</u>	<u>28</u>	<u>62</u>	<u>43</u>	<u>2</u>	<u>27</u>	<u>53</u>
<u>Yingtan</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>6</u>	<u>42</u>	<u>39</u>	<u>4</u>	<u>20</u>	<u>66</u>	<u>39</u>	<u>3</u>	<u>11</u>	<u>62</u>
<u>Changsha</u>	<u>Hunan</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>14</u>	<u>49</u>	<u>59</u>	<u>4</u>	<u>21</u>	<u>86</u>	<u>48</u>	<u>3</u>	<u>15</u>	<u>89</u>
<u>Changde</u>	<u>Hunan</u>	<u>NEC</u>	<u>22</u>	<u>2</u>	<u>6</u>	<u>43</u>	<u>31</u>	<u>2</u>	<u>11</u>	<u>43</u>	<u>32</u>	<u>2</u>	<u>9</u>	<u>56</u>
<u>Chenzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>12</u>	<u>48</u>	<u>45</u>	<u>8</u>	<u>12</u>	<u>126</u>	<u>47</u>	<u>4</u>	<u>15</u>	<u>84</u>
<u>Huaihua</u>	<u>Hunan</u>	<u>NEC</u>	<u>21</u>	<u>1</u>	<u>13</u>	<u>33</u>	<u>49</u>	<u>4</u>	<u>17</u>	<u>76</u>	<u>45</u>	<u>4</u>	<u>14</u>	<u>101</u>
<u>Loudi</u>	<u>Hunan</u>	<u>NEC</u>	<u>28</u>	<u>2</u>	<u>15</u>	<u>40</u>	<u>54</u>	<u>3</u>	<u>21</u>	<u>71</u>	<u>44</u>	<u>3</u>	<u>15</u>	<u>90</u>
<u>Xiangtan</u>	<u>Hunan</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>15</u>	<u>46</u>	<u>58</u>	<u>4</u>	<u>22</u>	<u>79</u>	<u>49</u>	<u>3</u>	<u>15</u>	<u>92</u>
<u>Yiyang</u>	<u>Hunan</u>	<u>NEC</u>	<u>28</u>	<u>2</u>	<u>17</u>	<u>51</u>	<u>49</u>	<u>3</u>	<u>19</u>	<u>68</u>	<u>45</u>	<u>2</u>	<u>18</u>	<u>65</u>
<u>Yongzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>37</u>	<u>2</u>	<u>25</u>	<u>55</u>	<u>44</u>	<u>3</u>	<u>22</u>	<u>63</u>	<u>54</u>	<u>5</u>	<u>24</u>	<u>133</u>
<u>Zhangjiajie</u>	<u>Hunan</u>	<u>NEC</u>	<u>23</u>	<u>3</u>	<u>9</u>	<u>56</u>	<u>45</u>	<u>4</u>	<u>17</u>	<u>71</u>	<u>43</u>	<u>3</u>	<u>8</u>	<u>67</u>
<u>Zhuzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>11</u>	<u>34</u>	<u>50</u>	<u>4</u>	<u>21</u>	<u>85</u>	<u>40</u>	<u>2</u>	<u>13</u>	<u>58</u>
<u>Dongguan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>26</u>	<u>2</u>	<u>11</u>	<u>45</u>	<u>35</u>	<u>3</u>	<u>16</u>	<u>57</u>	<u>39</u>	<u>2</u>	<u>19</u>	<u>68</u>
<u>Foshan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>34</u>	<u>3</u>	<u>20</u>	<u>59</u>	<u>44</u>	<u>4</u>	<u>18</u>	<u>75</u>	<u>38</u>	<u>2</u>	<u>17</u>	<u>55</u>
<u>Guangzhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>34</u>	<u>2</u>	<u>17</u>	<u>47</u>	<u>39</u>	<u>3</u>	<u>19</u>	<u>63</u>	<u>41</u>	<u>2</u>	<u>23</u>	<u>63</u>
<u>Heyuan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>10</u>	<u>37</u>	<u>31</u>	<u>4</u>	<u>12</u>	<u>54</u>	<u>38</u>	<u>2</u>	<u>14</u>	<u>59</u>
<u>Huizhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>22</u>	<u>2</u>	<u>10</u>	<u>39</u>	<u>25</u>	<u>4</u>	<u>7</u>	<u>44</u>	<u>24</u>	<u>2</u>	<u>6</u>	<u>48</u>
<u>Jiangmen</u>	<u>Guangdong</u>	<u>NEC</u>	<u>19</u>	<u>2</u>	<u>10</u>	<u>39</u>	<u>36</u>	<u>5</u>	<u>12</u>	<u>67</u>	<u>33</u>	<u>2</u>	<u>15</u>	<u>55</u>
<u>Maoming</u>	<u>Guangdong</u>	<u>NEC</u>	<u>19</u>	<u>3</u>	<u>5</u>	<u>56</u>	<u>28</u>	<u>6</u>	<u>4</u>	<u>65</u>	<u>25</u>	<u>3</u>	<u>9</u>	<u>52</u>
<u>Meizhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>9</u>	<u>43</u>	<u>26</u>	<u>3</u>	<u>9</u>	<u>48</u>	<u>35</u>	<u>2</u>	<u>14</u>	<u>62</u>
<u>Qingyuan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>32</u>	<u>3</u>	<u>17</u>	<u>62</u>	<u>32</u>	<u>4</u>	<u>14</u>	<u>59</u>	<u>30</u>	<u>3</u>	<u>11</u>	<u>91</u>

<u>Shantou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>24</u>	<u>2</u>	<u>12</u>	<u>38</u>	<u>25</u>	<u>3</u>	<u>13</u>	<u>43</u>	<u>29</u>	<u>2</u>	<u>16</u>	<u>50</u>
<u>Shaoguan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>30</u>	<u>2</u>	<u>15</u>	<u>56</u>	<u>32</u>	<u>4</u>	<u>13</u>	<u>59</u>	<u>40</u>	<u>3</u>	<u>10</u>	<u>73</u>
<u>Shenzhen</u>	<u>Guangdong</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>8</u>	<u>48</u>	<u>27</u>	<u>4</u>	<u>11</u>	<u>47</u>	<u>30</u>	<u>2</u>	<u>14</u>	<u>54</u>
<u>Zhujiang</u>	<u>Guangdong</u>	<u>NEC</u>	<u>15</u>	<u>2</u>	<u>6</u>	<u>42</u>	<u>31</u>	<u>6</u>	<u>7</u>	<u>69</u>	<u>25</u>	<u>3</u>	<u>10</u>	<u>61</u>
<u>Zhaoqing</u>	<u>Guangdong</u>	<u>NEC</u>	<u>30</u>	<u>2</u>	<u>15</u>	<u>53</u>	<u>40</u>	<u>4</u>	<u>17</u>	<u>73</u>	<u>40</u>	<u>3</u>	<u>16</u>	<u>68</u>
<u>Zhongshan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>19</u>	<u>3</u>	<u>7</u>	<u>56</u>	<u>28</u>	<u>5</u>	<u>7</u>	<u>59</u>	<u>31</u>	<u>3</u>	<u>11</u>	<u>62</u>
<u>Zhuhai</u>	<u>Guangdong</u>	<u>NEC</u>	<u>17</u>	<u>3</u>	<u>6</u>	<u>55</u>	<u>26</u>	<u>5</u>	<u>7</u>	<u>57</u>	<u>26</u>	<u>2</u>	<u>9</u>	<u>52</u>
<u>Fuzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>22</u>	<u>2</u>	<u>6</u>	<u>38</u>	<u>17</u>	<u>2</u>	<u>7</u>	<u>27</u>	<u>21</u>	<u>1</u>	<u>9</u>	<u>39</u>
<u>Longyan</u>	<u>Fujian</u>	<u>NEC</u>	<u>17</u>	<u>2</u>	<u>5</u>	<u>36</u>	<u>19</u>	<u>2</u>	<u>10</u>	<u>37</u>	<u>27</u>	<u>2</u>	<u>11</u>	<u>47</u>
<u>Nanping</u>	<u>Fujian</u>	<u>NEC</u>	<u>18</u>	<u>2</u>	<u>3</u>	<u>37</u>	<u>18</u>	<u>3</u>	<u>9</u>	<u>37</u>	<u>23</u>	<u>2</u>	<u>9</u>	<u>41</u>
<u>Ningde</u>	<u>Fujian</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>7</u>	<u>35</u>	<u>17</u>	<u>2</u>	<u>7</u>	<u>30</u>	<u>21</u>	<u>1</u>	<u>8</u>	<u>36</u>
<u>Putian</u>	<u>Fujian</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>10</u>	<u>44</u>	<u>19</u>	<u>2</u>	<u>9</u>	<u>30</u>	<u>25</u>	<u>1</u>	<u>11</u>	<u>39</u>
<u>Quanzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>7</u>	<u>33</u>	<u>16</u>	<u>1</u>	<u>9</u>	<u>26</u>	<u>23</u>	<u>1</u>	<u>10</u>	<u>39</u>
<u>Sanming</u>	<u>Fujian</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>4</u>	<u>38</u>	<u>22</u>	<u>3</u>	<u>11</u>	<u>44</u>	<u>25</u>	<u>2</u>	<u>7</u>	<u>41</u>
<u>Xiamen</u>	<u>Fujian</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>10</u>	<u>36</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>30</u>	<u>27</u>	<u>1</u>	<u>11</u>	<u>40</u>
<u>Zhangzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>8</u>	<u>44</u>	<u>20</u>	<u>1</u>	<u>14</u>	<u>29</u>	<u>26</u>	<u>1</u>	<u>9</u>	<u>45</u>
<u>Haikou</u>	<u>Hainan</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>25</u>	<u>20</u>	<u>3</u>	<u>7</u>	<u>48</u>	<u>16</u>	<u>2</u>	<u>4</u>	<u>41</u>
<u>Sanya</u>	<u>Hainan</u>	<u>NEC</u>	<u>10</u>	<u>0</u>	<u>6</u>	<u>13</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>19</u>	<u>12</u>	<u>1</u>	<u>4</u>	<u>21</u>
<u>Chongqing</u>	<u>Municipality</u>	<u>NEC</u>	<u>34</u>	<u>3</u>	<u>11</u>	<u>64</u>	<u>53</u>	<u>3</u>	<u>24</u>	<u>71</u>	<u>30</u>	<u>3</u>	<u>10</u>	<u>61</u>
<u>Bazhong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>8</u>	<u>25</u>	<u>23</u>	<u>2</u>	<u>14</u>	<u>36</u>	<u>20</u>	<u>2</u>	<u>6</u>	<u>34</u>
<u>Chengdu</u>	<u>Sichuan</u>	<u>NEC</u>	<u>33</u>	<u>4</u>	<u>9</u>	<u>75</u>	<u>54</u>	<u>4</u>	<u>30</u>	<u>78</u>	<u>31</u>	<u>3</u>	<u>9</u>	<u>88</u>
<u>Dazhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>32</u>	<u>2</u>	<u>13</u>	<u>50</u>	<u>62</u>	<u>4</u>	<u>33</u>	<u>85</u>	<u>43</u>	<u>3</u>	<u>16</u>	<u>66</u>
<u>Deyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>12</u>	<u>58</u>	<u>53</u>	<u>5</u>	<u>28</u>	<u>94</u>	<u>27</u>	<u>2</u>	<u>9</u>	<u>65</u>
<u>Guangyuan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>13</u>	<u>2</u>	<u>4</u>	<u>52</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>16</u>
<u>Leshan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>29</u>	<u>4</u>	<u>7</u>	<u>82</u>	<u>55</u>	<u>6</u>	<u>23</u>	<u>105</u>	<u>32</u>	<u>3</u>	<u>12</u>	<u>96</u>
<u>Luzhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>36</u>	<u>5</u>	<u>6</u>	<u>84</u>	<u>57</u>	<u>8</u>	<u>13</u>	<u>111</u>	<u>27</u>	<u>2</u>	<u>9</u>	<u>52</u>

<u>Meishan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>32</u>	<u>4</u>	<u>8</u>	<u>63</u>	<u>51</u>	<u>6</u>	<u>25</u>	<u>100</u>	<u>28</u>	<u>4</u>	<u>8</u>	<u>117</u>
<u>Mianyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>8</u>	<u>40</u>	<u>41</u>	<u>3</u>	<u>19</u>	<u>70</u>	<u>21</u>	<u>2</u>	<u>3</u>	<u>49</u>
<u>Nanchong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>36</u>	<u>3</u>	<u>15</u>	<u>59</u>	<u>50</u>	<u>3</u>	<u>28</u>	<u>65</u>	<u>38</u>	<u>3</u>	<u>18</u>	<u>77</u>
<u>Panzhihua</u>	<u>Sichuan</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>12</u>	<u>32</u>	<u>28</u>	<u>2</u>	<u>17</u>	<u>40</u>	<u>24</u>	<u>1</u>	<u>9</u>	<u>35</u>
<u>Suining</u>	<u>Sichuan</u>	<u>NEC</u>	<u>29</u>	<u>3</u>	<u>8</u>	<u>51</u>	<u>47</u>	<u>3</u>	<u>18</u>	<u>71</u>	<u>30</u>	<u>3</u>	<u>10</u>	<u>71</u>
<u>Ya'an</u>	<u>Sichuan</u>	<u>NEC</u>	<u>15</u>	<u>2</u>	<u>6</u>	<u>36</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>25</u>	<u>19</u>	<u>2</u>	<u>7</u>	<u>49</u>
<u>Ziyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>31</u>	<u>25</u>	<u>2</u>	<u>15</u>	<u>42</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>34</u>
<u>Zigong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>37</u>	<u>4</u>	<u>17</u>	<u>80</u>	<u>57</u>	<u>6</u>	<u>29</u>	<u>88</u>	<u>38</u>	<u>3</u>	<u>15</u>	<u>86</u>
<u>Baoshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>34</u>	<u>18</u>	<u>1</u>	<u>14</u>	<u>23</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>22</u>
<u>Chuxiong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>5</u>	<u>26</u>	<u>24</u>	<u>3</u>	<u>6</u>	<u>45</u>	<u>12</u>	<u>1</u>	<u>4</u>	<u>24</u>
<u>Dali</u>	<u>Yunnan</u>	<u>NEC</u>	<u>13</u>	<u>2</u>	<u>4</u>	<u>31</u>	<u>13</u>	<u>1</u>	<u>9</u>	<u>24</u>	<u>11</u>	<u>0</u>	<u>8</u>	<u>15</u>
<u>Dehong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>21</u>	<u>1</u>	<u>13</u>	<u>33</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>32</u>	<u>21</u>	<u>1</u>	<u>12</u>	<u>32</u>
<u>Honghe</u>	<u>Yunnan</u>	<u>NEC</u>	<u>19</u>	<u>4</u>	<u>5</u>	<u>78</u>	<u>34</u>	<u>4</u>	<u>14</u>	<u>68</u>	<u>21</u>	<u>2</u>	<u>10</u>	<u>46</u>
<u>Kunming</u>	<u>Yunnan</u>	<u>NEC</u>	<u>18</u>	<u>2</u>	<u>9</u>	<u>38</u>	<u>27</u>	<u>3</u>	<u>12</u>	<u>43</u>	<u>20</u>	<u>1</u>	<u>9</u>	<u>37</u>
<u>Lijiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>15</u>	<u>0</u>	<u>14</u>	<u>22</u>	<u>16</u>	<u>0</u>	<u>14</u>	<u>19</u>	<u>17</u>	<u>1</u>	<u>14</u>	<u>31</u>
<u>Lincang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>26</u>	<u>17</u>	<u>1</u>	<u>14</u>	<u>24</u>	<u>19</u>	<u>1</u>	<u>13</u>	<u>31</u>
<u>Nujiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>12</u>	<u>0</u>	<u>8</u>	<u>15</u>	<u>13</u>	<u>0</u>	<u>11</u>	<u>16</u>	<u>13</u>	<u>0</u>	<u>8</u>	<u>16</u>
<u>Qujing</u>	<u>Yunnan</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>8</u>	<u>44</u>	<u>34</u>	<u>3</u>	<u>16</u>	<u>51</u>	<u>23</u>	<u>1</u>	<u>6</u>	<u>35</u>
<u>Wenshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>17</u>	<u>48</u>	<u>40</u>	<u>2</u>	<u>28</u>	<u>53</u>	<u>26</u>	<u>1</u>	<u>16</u>	<u>40</u>
<u>Xishuangbanna</u>	<u>Yunnan</u>	<u>NEC</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>13</u>	<u>16</u>	<u>1</u>	<u>5</u>	<u>23</u>	<u>16</u>	<u>1</u>	<u>6</u>	<u>28</u>
<u>Tuxi</u>	<u>Yunnan</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>5</u>	<u>25</u>	<u>26</u>	<u>3</u>	<u>8</u>	<u>40</u>	<u>17</u>	<u>1</u>	<u>7</u>	<u>31</u>
<u>Zhaotong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>31</u>	<u>3</u>	<u>15</u>	<u>56</u>	<u>37</u>	<u>4</u>	<u>10</u>	<u>68</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>35</u>
<u>Anshun</u>	<u>Guizhou</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>14</u>	<u>33</u>	<u>34</u>	<u>3</u>	<u>17</u>	<u>57</u>	<u>21</u>	<u>1</u>	<u>14</u>	<u>40</u>
<u>Bijie</u>	<u>Guizhou</u>	<u>NEC</u>	<u>18</u>	<u>2</u>	<u>6</u>	<u>32</u>	<u>29</u>	<u>3</u>	<u>4</u>	<u>48</u>	<u>16</u>	<u>2</u>	<u>5</u>	<u>38</u>
<u>Guiyang</u>	<u>Guizhou</u>	<u>NEC</u>	<u>19</u>	<u>2</u>	<u>7</u>	<u>42</u>	<u>41</u>	<u>3</u>	<u>10</u>	<u>60</u>	<u>25</u>	<u>2</u>	<u>9</u>	<u>55</u>
<u>Liupanshui</u>	<u>Guizhou</u>	<u>NEC</u>	<u>26</u>	<u>3</u>	<u>11</u>	<u>52</u>	<u>42</u>	<u>5</u>	<u>11</u>	<u>67</u>	<u>21</u>	<u>2</u>	<u>8</u>	<u>38</u>

Tongren	Guizhou	NEC	15	0	13	16	19	1	14	29	22	2	13	47
Zunyi	Guizhou	NEC	19	2	7	37	35	3	15	58	28	2	9	58
Baise	Guangxi	NEC	28	3	7	63	37	4	6	59	31	3	11	55
Beihai	Guangxi	NEC	16	2	6	42	24	5	5	59	22	2	9	53
Chongzuo	Guangxi	NEC	20	2	5	38	29	5	7	63	24	2	8	52
Fangchenggang	Guangxi	NEC	18	2	7	46	26	6	7	66	23	2	11	50
Guigang	Guangxi	NEC	37	3	17	73	39	7	11	85	31	2	14	52
Guilin	Guangxi	NEC	25	2	14	41	43	5	10	66	52	4	19	87
Hechi	Guangxi	NEC	28	3	16	55	42	5	11	70	35	4	6	86
Hezhou	Guangxi	NEC	31	2	20	44	37	6	10	72	31	2	9	46
Laibin	Guangxi	NEC	34	3	15	70	39	6	11	80	35	3	8	68
Liuzhou	Guangxi	NEC	34	3	16	68	45	7	14	83	42	4	17	77
Nanning	Guangxi	NEC	27	4	8	62	37	7	7	70	29	3	8	61
Qinzhou	Guangxi	NEC	22	3	10	47	29	6	7	69	26	3	11	55
Wuzhou	Guangxi	NEC	32	3	19	56	36	5	13	60	34	2	14	55
Yulin	Guangxi	NEC	30	3	11	53	32	5	13	65	29	2	14	50
Golog	Qinghai	NEC	34	2	22	47	49	3	40	80	23	3	3	53
Haidong	Qinghai	NEC	41	2	28	56	42	4	29	72	35	1	24	44
Xining	Qinghai	NEC	33	2	15	62	33	2	25	48	32	2	12	64
Ali	Tibet	NEC	14	2	7	33	11	1	5	21	14	1	7	21
Qamdo	Tibet	NEC	17	1	9	35	14	1	8	18	15	1	5	26
Lhasa	Tibet	NEC	18	1	10	36	19	2	12	39	17	1	11	28
Nyingchi	Tibet	NEC	8	0	5	12	6	0	5	8	6	0	4	13
Naqu	Tibet	NEC	35	4	16	77	40	4	26	68	47	2	27	65
Shigatse	Tibet	NEC	16	2	5	37	13	1	7	26	14	1	5	28
Lhoka	Tibet	NEC	9	1	3	14	5	0	4	7	8	0	3	14

125 ^a EC and NEC denote emission control and non-emission control regions, respectively, of which the latter means regions without implementation
126 of emission control measures.

带格式的：上标

127 ^b The pre-Parade Blue, Parade Blue, and post-Parade Blue periods indicate the periods of 1-19 August, 20 August-3 September, and 4-30
128 September 2015, respectively.

带格式的：上标

130 **Table S3.** Summary statistical of daily average PM₁₀ concentrations ($\mu\text{g m}^{-3}$) during the pre-Parade Blue and Parade Blue periods in the 291
131 cities across China

City	Province	Region	The Pre Parade Blue period				-	The Parade Blue period				Reduction or Increase
			Mean	Standard Error	Min	Max	-	Mean	Standard Error	Min	Max	
Beijing	Municipality	NC	87	8	44	176	-	29	3	13	51	-67
Tianjing	Municipality	NC	111	8	57	200	-	58	7	23	125	-48
Baoding	Hebei	NC	152	10	61	241	-	70	8	33	142	-54
Cangzhou	Hebei	NC	87	8	44	176	-	29	3	13	51	-67
Chengde	Hebei	NC	72	5	43	121	-	32	2	23	46	-55
Handan	Hebei	NC	157	11	84	245	-	104	14	23	194	-34
Hengshui	Hebei	NC	121	9	51	221	-	69	9	12	141	-43
Langfang	Hebei	NC	131	9	47	200	-	56	8	21	147	-57
Qinhuangdao	Hebei	NC	90	8	30	175	-	25	3	13	54	-73
Shijiazhuang	Hebei	NC	136	11	41	212	-	70	8	16	127	-48
Tangshan	Hebei	NC	124	9	52	187	-	35	4	14	68	-72
Xingtai	Hebei	NC	127	9	65	208	-	81	11	20	162	-36
Zhangjiakou	Hebei	NC	70	14	37	320	-	40	3	16	54	-44
Changzhi	Shanxi	NC	89	7	34	148	-	63	4	41	86	-29

Datong	Shanxi	NC	70	11	36	250	44	3	24	66	-36
Jincheng	Shanxi	NC	92	7	28	139	73	7	39	140	-21
Jinzhong	Shanxi	NC	64	5	32	117	52	4	29	86	-19
Linfen	Shanxi	NC	58	4	39	118	45	4	25	70	-24
Lvliang	Shanxi	NC	66	4	31	101	46	2	34	62	-30
Shuozhou	Shanxi	NC	91	7	47	169	64	4	39	96	-30
Taiyuan	Shanxi	NC	92	7	45	169	58	5	25	97	-38
Xinzhou	Shanxi	NC	67	4	45	118	42	2	30	51	-37
Yangquan	Shanxi	NC	74	5	36	120	49	4	25	68	-34
Yuncheng	Shanxi	NC	92	11	38	242	74	6	43	113	-19
Binzhou	Shandong	NC	86	7	27	144	59	6	32	118	-32
Dezhou	Shandong	NC	137	9	41	204	71	8	25	140	-48
Dongying	Shandong	NC	109	11	35	196	79	7	44	130	-28
Jinan	Shandong	NC	101	7	37	137	85	7	50	135	-16
Jining	Shandong	NC	80	8	42	154	85	6	52	131	6
Laiwu	Shandong	NC	91	9	40	153	96	7	57	156	5
Liaocheng	Shandong	NC	135	12	47	223	101	11	32	169	-25
Linyi	Shandong	NC	91	10	36	173	91	8	55	174	0
Qingdao	Shandong	NC	75	5	37	115	68	6	40	135	-10
Rizhao	Shandong	NC	69	6	24	123	70	7	29	128	1
Tai'an	Shandong	NC	85	9	39	163	85	7	46	140	0
Weihai	Shandong	NC	69	6	39	123	41	3	21	59	-40
Weifang	Shandong	NC	101	9	47	177	99	12	44	198	+
Yantai	Shandong	NC	75	7	36	141	50	4	23	75	-33
Zaozhuang	Shandong	NC	92	8	46	148	98	5	69	135	7
Zibo	Shandong	NC	109	7	56	159	106	9	63	164	-2

Alxa League	Inner Mongolia	NC	96	9	56	195	67	4	33	93	-30
Bayannur	Inner Mongolia	NC	82	8	43	193	67	3	54	94	-17
Baotou	Inner Mongolia	NC	86	8	35	165	62	3	39	90	-28
Chifeng	Inner Mongolia	NC	59	7	34	156	35	2	24	49	-41
Ordos	Inner Mongolia	NC	54	7	20	148	36	2	28	51	-33
Hohhot	Inner Mongolia	NC	87	8	46	207	54	4	33	80	-39
Hulun Buir	Inner Mongolia	NC	53	7	16	127	65	5	36	99	-23
Tongliao	Inner Mongolia	NC	95	8	56	165	62	4	46	99	-35
Wuhai	Inner Mongolia	NC	104	12	43	280	67	5	33	104	-35
Hinggan League	Inner Mongolia	NC	61	3	41	82	43	2	34	53	-30
Anyang	Henan	NC	100	7	49	169	82	9	39	151	-19
Hebi	Henan	NC	99	6	59	144	66	8	27	132	-34
Jiaozuo	Henan	NC	84	6	40	137	71	8	18	123	-16
Kaifeng	Henan	NC	76	5	46	131	68	7	35	130	-10
Luoyang	Henan	NC	96	11	34	223	72	5	31	101	-25
Luohe	Henan	NC	80	6	42	117	99	7	57	141	-24
Nanyang	Henan	NC	93	6	48	140	109	7	67	148	-17
Pingdingshan	Henan	NC	91	8	42	148	91	6	61	133	-1
Sanmenxia	Henan	NC	100	12	29	255	72	5	42	112	-28
Shangqiu	Henan	NC	65	6	30	141	65	6	31	112	-1
Xinyang	Henan	NC	56	5	30	104	78	4	45	103	-40
Zhengzhou	Henan	NC	107	9	44	187	97	12	37	193	-9
Zhoukou	Henan	NC	57	4	29	92	68	5	36	94	-19
Zhumadian	Henan	NC	78	6	47	125	88	8	32	128	-13
Anshan	Liaoning	NE	61	5	24	101	70	4	52	101	-14
Benxi	Liaoning	NE	57	5	29	108	57	3	29	80	-1

Chaoyang	Liaoning	NE	61	6	34	139	41	2	30	56	34
Dalian	Liaoning	NE	67	8	25	141	46	4	22	81	32
Dandong	Liaoning	NE	28	7	0	90	36	2	19	49	30
Fushun	Liaoning	NE	47	4	25	90	36	3	19	53	24
Fuxin	Liaoning	NE	72	8	27	143	30	2	17	49	58
Huludao	Liaoning	NE	94	12	31	191	45	3	33	75	52
Jinzhou	Liaoning	NE	83	10	38	174	37	3	29	67	56
Liaoyang	Liaoning	NE	60	5	21	103	64	3	44	82	5
Panjin	Liaoning	NE	63	8	23	141	33	3	25	69	48
Shenyang	Liaoning	NE	62	5	30	99	46	3	30	69	26
Tieling	Liaoning	NE	48	4	26	83	34	2	15	45	29
Wafangdian	Liaoning	NE	57	6	21	93	45	3	25	69	20
Yingkou	Liaoning	NE	54	5	23	109	44	7	14	122	19
Baicheng	Jilin	NE	63	3	42	83	51	2	39	61	19
Baishan	Jilin	NE	50	3	26	82	39	2	22	52	21
Changchun	Jilin	NE	52	4	26	103	42	4	15	64	19
Jilin	Jilin	NE	38	3	23	59	38	3	14	54	1
Liaoyuan	Jilin	NE	46	6	21	91	48	8	18	103	5
Siping	Jilin	NE	59	5	27	118	40	3	18	54	33
Songyuan	Jilin	NE	34	2	20	55	23	2	8	37	32
Daqing	Heilongjiang	NE	47	2	33	75	38	2	26	48	19
Daxinganling	Heilongjiang	NE	48	3	31	88	43	2	35	53	9
Harbin	Heilongjiang	NE	45	2	26	59	32	2	15	47	28
Hegang	Heilongjiang	NE	80	4	48	123	48	5	21	100	40
Heihe	Heilongjiang	NE	56	3	32	81	41	2	30	56	26
Jixi	Heilongjiang	NE	35	2	24	46	30	3	15	54	12

Jiamusi	Heilongjiang	NE	29-	2-	16-	43-	26-	2-	14-	44-	12-
Mudanjiang	Heilongjiang	NE	38-	1-	27-	53-	45-	2-	31-	59-	16-
Qitaihe	Heilongjiang	NE	36-	2-	21-	56-	32-	3-	14-	51-	13-
Qiqihar	Heilongjiang	NE	47-	3-	30-	68-	42-	2-	31-	56-	10-
Shuangyashan	Heilongjiang	NE	44-	2-	35-	57-	45-	3-	27-	63-	2-
Suihua	Heilongjiang	NE	23-	2-	14-	40-	21-	1-	15-	32-	6-
Ankang	Shaanxi	NW	34-	3-	11-	60-	43-	2-	26-	59-	25-
Baoji	Shaanxi	NW	87-	14-	31-	286-	73-	5-	42-	113-	16-
Hanzhong	Shaanxi	NW	42-	5-	19-	126-	50-	2-	33-	58-	20-
Shangluo	Shaanxi	NW	53-	10-	18-	213-	45-	3-	28-	57-	16-
Tongchuan	Shaanxi	NW	75-	9-	35-	178-	64-	2-	46-	82-	14-
Weinan	Shaanxi	NW	79-	11-	16-	219-	74-	4-	46-	102-	6-
Xi'an	Shaanxi	NW	106-	15-	30-	285-	94-	5-	61-	136-	11-
Xianyang	Shaanxi	NW	79-	10-	22-	189-	78-	4-	43-	104-	2-
Yan'an	Shaanxi	NW	76-	8-	39-	194-	67-	3-	53-	95-	11-
Yulin	Shaanxi	NW	70-	8-	26-	160-	59-	5-	39-	97-	15-
Baiying	Gansu	NW	71-	11-	19-	247-	71-	4-	37-	100-	1-
Dingxi	Gansu	NW	49-	4-	19-	74-	59-	4-	39-	91-	21-
Gannan	Gansu	NW	42-	4-	19-	80-	68-	7-	43-	140-	62-
Jiayuguan	Gansu	NW	85-	22-	31-	421-	82-	11-	38-	212-	3-
Jiuquan	Gansu	NW	126-	39-	45-	662-	96-	8-	49-	180-	23-
Lanzhou	Gansu	NW	90-	10-	36-	237-	81-	6-	45-	117-	11-
Linxia	Gansu	NW	46-	3-	20-	82-	44-	2-	34-	57-	5-
Pingliang	Gansu	NW	59-	6-	22-	135-	41-	2-	27-	51-	31-
Qingyang	Gansu	NW	54-	10-	14-	186-	40-	2-	27-	54-	25-
Tianshui	Gansu	NW	43-	9-	14-	200-	28-	2-	16-	41-	35-

Wuwei	Gansu	NW	80	13	39	284	74	7	34	129	7
Zhangye	Gansu	NW	50	11	20	199	34	4	9	58	31
Guyuan	Ningxia	NW	75	11	27	232	55	3	28	71	26
Shizuishan	Ningxia	NW	86	12	40	258	64	5	39	90	26
Wuzhong	Ningxia	NW	75	9	35	157	78	4	51	99	4
Yinchuan	Ningxia	NW	96	8	58	187	74	5	44	104	22
Zhongwei	Ningxia	NW	65	8	30	168	63	4	29	79	3
Aksu	Sinkiang	NW	255	46	46	804	118	18	48	231	54
Hami	Sinkiang	NW	79	8	39	197	114	16	72	317	45
Hotan	Sinkiang	NW	485	117	77	2562	296	42	67	628	39
Kashgar	Sinkiang	NW	295	63	97	1039	151	32	43	413	49
Karamay	Sinkiang	NW	53	5	21	139	58	8	31	147	9
Kizilsu	Sinkiang	NW	213	46	21	757	97	24	23	291	55
Shihezi	Sinkiang	NW	79	19	18	369	59	8	24	134	25
Urumchi	Sinkiang	NW	95	9	30	209	102	15	38	208	7
Wujiachu	Sinkiang	NW	86	11	26	225	95	18	21	229	11
Yili	Sinkiang	NW	64	4	27	97	66	9	17	127	2
Ezhou	Hubei	SE	61	5	16	98	79	5	36	110	30
Huanggang	Hubei	SE	48	4	18	87	63	3	29	83	31
Jingmen	Hubei	SE	58	6	20	135	90	6	44	122	56
Shiyan	Hubei	SE	48	4	21	85	63	5	38	92	32
Wuhan	Hubei	SE	66	6	13	116	103	8	42	158	57
Xianning	Hubei	SE	55	4	28	93	83	4	41	96	49
Xiangyang	Hubei	SE	59	5	26	112	80	5	51	115	34
Xiaogan	Hubei	SE	55	4	30	84	79	5	45	108	44
Yichang	Hubei	SE	58	6	21	117	85	5	55	131	47

Anqing	Anhui	SE	58	4	25	80	53	4	24	77	9
Bengbu	Anhui	SE	64	5	19	102	85	6	32	136	32
Bozhou	Anhui	SE	60	4	37	98	85	6	48	114	42
Chuzhou	Anhui	SE	69	6	20	112	81	7	34	125	18
Fuyang	Anhui	SE	59	4	28	94	77	5	45	133	30
Hefei	Anhui	SE	67	5	14	99	79	6	26	120	17
Huabei	Anhui	SE	66	7	27	129	63	4	42	84	5
Huainan	Anhui	SE	53	4	32	85	78	6	35	118	47
Huangshan	Anhui	SE	30	2	14	43	46	5	19	83	51
Lu'an	Anhui	SE	58	4	20	96	79	4	48	103	35
Ma'anshan	Anhui	SE	60	4	20	84	79	7	34	120	32
Suzhou	Anhui	SE	72	8	29	142	85	6	45	119	17
Tongling	Anhui	SE	83	6	38	142	102	9	49	150	22
Wuhu	Anhui	SE	54	3	26	78	74	5	35	107	37
Changzhou	Jiangsu	SE	66	7	24	126	79	9	14	121	20
Huaian	Jiangsu	SE	57	5	18	100	72	6	20	120	26
Lianyungang	Jiangsu	SE	55	5	23	92	69	7	24	139	26
Nanjing	Jiangsu	SE	61	5	12	89	69	7	27	105	13
Nantong	Jiangsu	SE	56	5	21	91	59	8	15	136	5
Suzhou	Jiangsu	SE	60	5	26	92	76	8	23	125	26
Suqian	Jiangsu	SE	56	5	24	94	67	4	28	104	20
Taizhou	Jiangsu	SE	74	7	24	128	75	7	28	123	2
Wuxi	Jiangsu	SE	61	5	27	96	79	8	25	130	29
Xuzhou	Jiangsu	SE	62	5	25	109	78	4	53	104	26
Yanchen	Jiangsu	SE	56	6	19	104	51	4	16	81	8
Yangzhou	Jiangsu	SE	64	6	20	112	63	5	30	82	2

Zhenjiang	Jiangsu	SE	50	5	12	92	57	6	14	86	14
Shanghai	Municipality	SE	52	4	27	92	72	10	17	149	38
Hangzhou	Zhejiang	SE	53	5	24	96	64	7	20	107	21
Huzhou	Zhejiang	SE	48	4	21	80	64	7	19	99	33
Jiaxing	Zhejiang	SE	51	4	29	74	72	8	25	134	41
Jinhua	Zhejiang	SE	49	3	18	78	69	8	18	118	41
Lishui	Zhejiang	SE	39	3	12	59	47	3	26	66	20
Ningbo	Zhejiang	SE	38	2	24	65	51	6	17	101	33
Quzhou	Zhejiang	SE	49	3	18	78	70	8	18	110	42
Shaoxing	Zhejiang	SE	48	4	23	89	76	9	24	138	58
Taizhou	Zhejiang	SE	41	2	31	57	45	5	20	81	10
Wenjiang	Zhejiang	SE	48	3	29	73	48	4	24	71	+
Zhoushan	Zhejiang	SE	28	1	22	44	34	5	11	72	20
Fuzhou	Jiangxi	SE	46	4	26	79	67	6	30	106	46
Ganzhou	Jiangxi	SE	60	5	33	102	61	5	32	99	1
Jian	Jiangxi	SE	51	4	23	89	57	6	24	100	12
Jingdezhen	Jiangxi	SE	53	5	20	85	71	6	31	99	35
Jiujiang	Jiangxi	SE	53	4	17	81	74	6	38	103	38
Nanchang	Jiangxi	SE	66	7	19	118	80	8	31	149	21
Pingxiang	Jiangxi	SE	47	3	29	79	83	7	33	124	77
Shangrao	Jiangxi	SE	54	4	23	77	62	6	30	108	15
Xinyu	Jiangxi	SE	53	3	26	79	70	5	35	99	31
Yichun	Jiangxi	SE	44	2	33	70	68	4	43	93	52
Yingtan	Jiangxi	SE	39	4	13	64	61	5	35	88	54
Changsha	Hunan	SE	47	3	15	72	85	6	31	124	82
Changde	Hunan	SE	41	3	17	62	59	4	25	80	43

Chenzhou	Hunan	SE	53-	4-	30-	81-	71-	9-	28-	157-	34-
Huaihua	Hunan	SE	49-	3-	33-	71-	91-	6-	36-	125-	85-
Loudi	Hunan	SE	52-	3-	28-	88-	87-	6-	41-	117-	69-
Xiangtan	Hunan	SE	48-	3-	25-	76-	90-	6-	37-	123-	85-
Yiyang	Hunan	SE	48-	3-	29-	70-	79-	4-	40-	104-	64-
Yongzhou	Hunan	SE	57-	3-	40-	88-	69-	5-	37-	100-	20-
Zhangjiajie	Hunan	SE	44-	3-	18-	80-	71-	5-	35-	102-	60-
Zhuzhou	Hunan	SE	42-	3-	23-	70-	81-	7-	38-	134-	94-
Dongguan	Guangdong	SE	39-	2-	21-	63-	50-	4-	27-	78-	30-
Foshan	Guangdong	SE	52-	3-	35-	83-	63-	6-	27-	105-	20-
Guangzhou	Guangdong	SE	55-	2-	34-	75-	57-	5-	31-	93-	3-
Heyuan	Guangdong	SE	37-	2-	20-	55-	45-	5-	22-	79-	22-
Huizhou	Guangdong	SE	44-	3-	24-	72-	45-	5-	19-	76-	2-
Jiangmen	Guangdong	SE	33-	3-	16-	58-	52-	7-	18-	94-	58-
Maoming	Guangdong	SE	34-	4-	13-	81-	46-	8-	9-	94-	36-
Meizhou	Guangdong	SE	38-	3-	18-	61-	39-	5-	16-	71-	2-
Qingyuan	Guangdong	SE	51-	3-	29-	80-	44-	6-	19-	84-	14-
Shantou	Guangdong	SE	42-	3-	20-	66-	42-	5-	25-	74-	+
Shaoguan	Guangdong	SE	47-	3-	29-	82-	46-	6-	20-	79-	2-
Shenzhen	Guangdong	SE	37-	4-	20-	78-	44-	6-	20-	77-	18-
Zhuijiang	Guangdong	SE	33-	3-	13-	64-	50-	8-	16-	99-	55-
Zhaoqing	Guangdong	SE	47-	3-	27-	77-	54-	6-	27-	104-	17-
Zhongshan	Guangdong	SE	31-	4-	15-	76-	39-	6-	11-	80-	27-
Zhuhai	Guangdong	SE	38-	5-	21-	95-	47-	8-	17-	101-	24-
Fuzhou	Fujian	SE	44-	4-	11-	86-	38-	3-	19-	55-	14-
Longyan	Fujian	SE	33-	3-	10-	65-	34-	4-	17-	58-	3-

Nanping	Fujian	SE	25	2	7	48	26	3	13	51	4
Ningde	Fujian	SE	35	3	10	59	31	2	20	43	14
Putian	Fujian	SE	38	3	18	58	31	2	19	41	19
Quanzhou	Fujian	SE	45	5	10	98	30	4	18	59	33
Sanming	Fujian	SE	44	4	11	74	41	5	18	78	6
Xiamen	Fujian	SE	37	3	21	65	32	2	21	51	15
Zhangzhou	Fujian	SE	43	3	24	80	42	2	33	59	1
Haikou	Hainan	SE	28	2	19	46	34	4	20	68	21
Sanya	Hainan	SE	21	1	16	30	24	2	15	33	12
Chongqing	Municipality	SW	58	5	21	104	82	5	42	106	40
Bazhong	Sichuan	SW	27	2	11	41	35	2	25	46	31
Chengdu	Sichuan	SW	62	7	15	134	88	8	42	139	42
Dazhou	Sichuan	SW	49	3	12	73	86	5	53	121	76
Deyang	Sichuan	SW	56	4	22	87	89	9	43	169	60
Guangyuan	Sichuan	SW	35	4	16	101	38	2	29	50	9
Leshan	Sichuan	SW	44	6	14	126	78	9	27	150	77
Luzhou	Sichuan	SW	49	7	14	113	80	9	32	145	64
Meishan	Sichuan	SW	54	5	14	84	79	8	38	136	46
Mianyang	Sichuan	SW	40	3	12	62	63	5	26	98	56
Nanchong	Sichuan	SW	54	5	20	93	71	4	41	97	33
Panzhihua	Sichuan	SW	44	3	22	69	53	4	34	81	19
Suining	Sichuan	SW	53	5	21	92	72	4	39	105	38
Ya'an	Sichuan	SW	30	3	12	57	35	2	24	58	15
Ziyang	Sichuan	SW	41	3	24	62	60	5	38	91	46
Zigong	Sichuan	SW	59	6	30	115	85	8	44	128	45
Baoshan	Yunnan	SW	37	2	27	51	37	1	29	46	2

Chuxiong	Yunnan	SW	26	2	14	41	41	6	11	75	57
Dali	Yunnan	SW	15	1	4	27	18	2	8	37	19
Dehong	Yunnan	SW	34	2	19	51	30	2	23	46	12
Honghe	Yunnan	SW	38	5	17	108	59	7	26	99	57
Kunming	Yunnan	SW	34	3	17	65	48	5	22	76	39
Lijiang	Yunnan	SW	30	1	24	37	33	1	29	43	11
Lincang	Yunnan	SW	27	1	19	40	27	1	22	38	1
Nujiang	Yunnan	SW	24	1	16	35	27	1	21	38	9
Qujing	Yunnan	SW	30	2	14	49	44	4	21	67	47
Wenshan	Yunnan	SW	26	3	7	68	45	3	24	64	72
Xishuangbanna	Yunnan	SW	22	1	10	31	29	2	15	40	33
Tuxi	Yunnan	SW	25	2	9	40	45	4	16	69	76
Zhaotong	Yunnan	SW	47	4	23	88	59	6	21	92	24
Anshun	Guizhou	SW	36	3	24	63	69	8	28	124	94
Bijie	Guizhou	SW	28	3	8	47	43	4	6	74	51
Guiyang	Guizhou	SW	34	4	16	79	63	6	13	97	82
Liupanshui	Guizhou	SW	51	5	24	94	74	7	25	120	46
Tongren	Guizhou	SW	27	1	25	35	41	2	28	54	52
Zunyi	Guizhou	SW	50	3	28	74	74	6	35	113	48
Baise	Guangxi	SW	46	4	17	85	51	5	12	83	10
Beihai	Guangxi	SW	34	3	16	63	41	8	12	87	22
Chongzuo	Guangxi	SW	42	4	11	73	53	7	13	96	26
Fangchenggang	Guangxi	SW	34	3	15	63	44	8	12	100	30
Guigang	Guangxi	SW	61	4	32	105	60	10	19	122	1
Guilin	Guangxi	SW	43	3	26	63	58	6	17	86	34
Hechi	Guangxi	SW	47	4	30	79	61	6	16	98	28

Hezhou	Guangxi	SW	50	3	30	73	51	7	17	85	3
Laibin	Guangxi	SW	59	4	29	99	67	9	23	116	15
Liuzhou	Guangxi	SW	56	4	31	110	70	9	24	112	25
Nanning	Guangxi	SW	58	8	19	135	69	12	13	151	18
Qinzhou	Guangxi	SW	44	4	20	78	49	9	13	111	11
Wuzhou	Guangxi	SW	55	4	31	90	49	7	19	83	12
Yulin	Guangxi	SW	45	4	23	78	45	7	17	91	2
Geleg	Qinghai	TP	77	7	34	133	86	8	53	122	11
Haidong	Qinghai	TP	37	4	0	75	49	7	20	126	35
Xining	Qinghai	TP	84	14	36	326	72	4	40	97	14
Ali	Tibet	TP	25	4	4	60	18	3	8	37	28
Qamdo	Tibet	TP	37	4	12	98	38	4	18	81	3
Lhasa	Tibet	TP	44	4	24	99	44	3	25	72	1
Nyingchi	Tibet	TP	15	4	6	30	12	1	7	22	19
Naqu	Tibet	TP	84	11	19	166	110	16	48	241	30
Shigatse	Tibet	TP	24	2	11	53	23	2	13	41	4
Lhoka	Tibet	TP	29	3	7	53	22	2	9	43	23

132 ^aNC, NE, NW, SE, SW, TP represent north China, northeast China, northwest China, southeast China, southwest China, and the Tibetan Plateau,
133 respectively.

134 ^bNegative values with red color mean significant ($p < 0.05$ or 0.01) reduction, and positive values mean increase.

135

136

137

138

139

140

141

142 **Table S3.** Summary of daily average PM₁₀ concentrations ($\mu\text{g m}^{-3}$) during the pre-Parade Blue, Parade Blue and post-Parade Blue periods in the
 143 291 cities across China

City	Province	Region ^a	Pre-Parade Blue period ^b				Parade Blue period ^b				Post-Parade Blue period ^b			
			Mean	SE	Min	Max	Mean	SE	Min	Max	Mean	SE	Min	Max
Beijing	Municipality	EC	87	8	44	176	29	3	13	51	65	9	11	163
Tianjing	Municipality	EC	111	8	57	200	58	7	23	125	78	7	23	148
Baoding	Hebei	EC	152	10	61	241	70	8	33	142	115	12	36	250
Cangzhou	Hebei	EC	87	8	44	176	29	3	13	51	70	8	17	152
Chengde	Hebei	EC	72	5	43	121	32	2	23	46	58	7	20	154
Handan	Hebei	EC	157	11	84	245	104	14	23	194	124	10	26	224
Hengshui	Hebei	EC	121	9	51	221	69	9	12	141	132	13	32	273
Langfang	Hebei	EC	131	9	47	200	56	8	21	147	106	12	23	229
Qinhuangdao	Hebei	EC	90	8	30	175	25	3	13	54	52	6	20	119
Shijiazhuang	Hebei	EC	136	11	41	212	70	8	16	127	91	8	29	181
Tangshan	Hebei	EC	124	9	52	187	35	4	14	68	87	8	27	163
Xingtai	Hebei	EC	127	9	65	208	81	11	20	162	120	10	42	219
Zhangjiakou	Hebei	EC	70	14	37	320	40	3	16	54	59	7	22	134
Changzhi	Shanxi	EC	89	7	34	148	63	4	41	86	75	5	32	133
Datong	Shanxi	EC	70	11	36	250	44	3	24	66	54	5	20	117
Jincheng	Shanxi	EC	92	7	28	139	73	7	39	140	75	6	24	179
Jinzhong	Shanxi	EC	64	5	32	117	52	4	29	86	66	6	19	126

<u>Linfen</u>	<u>Shanxi</u>	<u>EC</u>	<u>58</u>	<u>4</u>	<u>39</u>	<u>118</u>	<u>45</u>	<u>4</u>	<u>25</u>	<u>70</u>	<u>60</u>	<u>4</u>	<u>23</u>	<u>94</u>
<u>Lvliang</u>	<u>Shanxi</u>	<u>EC</u>	<u>66</u>	<u>4</u>	<u>31</u>	<u>101</u>	<u>46</u>	<u>2</u>	<u>34</u>	<u>62</u>	<u>62</u>	<u>4</u>	<u>33</u>	<u>105</u>
<u>Shuozhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>91</u>	<u>7</u>	<u>47</u>	<u>169</u>	<u>64</u>	<u>4</u>	<u>39</u>	<u>96</u>	<u>60</u>	<u>6</u>	<u>24</u>	<u>128</u>
<u>Taiyuan</u>	<u>Shanxi</u>	<u>EC</u>	<u>92</u>	<u>7</u>	<u>45</u>	<u>169</u>	<u>58</u>	<u>5</u>	<u>25</u>	<u>97</u>	<u>87</u>	<u>9</u>	<u>23</u>	<u>186</u>
<u>Xinzhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>67</u>	<u>4</u>	<u>45</u>	<u>118</u>	<u>42</u>	<u>2</u>	<u>30</u>	<u>51</u>	<u>64</u>	<u>6</u>	<u>24</u>	<u>130</u>
<u>Yangquan</u>	<u>Shanxi</u>	<u>EC</u>	<u>74</u>	<u>5</u>	<u>36</u>	<u>120</u>	<u>49</u>	<u>4</u>	<u>25</u>	<u>68</u>	<u>69</u>	<u>6</u>	<u>18</u>	<u>128</u>
<u>Yuncheng</u>	<u>Shanxi</u>	<u>EC</u>	<u>92</u>	<u>11</u>	<u>38</u>	<u>242</u>	<u>74</u>	<u>6</u>	<u>43</u>	<u>113</u>	<u>55</u>	<u>3</u>	<u>26</u>	<u>102</u>
<u>Binzhou</u>	<u>Shandong</u>	<u>EC</u>	<u>86</u>	<u>7</u>	<u>27</u>	<u>144</u>	<u>59</u>	<u>6</u>	<u>32</u>	<u>118</u>	<u>89</u>	<u>9</u>	<u>25</u>	<u>215</u>
<u>Dezhou</u>	<u>Shandong</u>	<u>EC</u>	<u>137</u>	<u>9</u>	<u>41</u>	<u>204</u>	<u>71</u>	<u>8</u>	<u>25</u>	<u>140</u>	<u>113</u>	<u>11</u>	<u>32</u>	<u>238</u>
<u>Dongying</u>	<u>Shandong</u>	<u>EC</u>	<u>109</u>	<u>11</u>	<u>35</u>	<u>196</u>	<u>79</u>	<u>7</u>	<u>44</u>	<u>130</u>	<u>98</u>	<u>9</u>	<u>38</u>	<u>210</u>
<u>Jinan</u>	<u>Shandong</u>	<u>EC</u>	<u>101</u>	<u>7</u>	<u>37</u>	<u>137</u>	<u>85</u>	<u>7</u>	<u>50</u>	<u>135</u>	<u>135</u>	<u>9</u>	<u>53</u>	<u>217</u>
<u>Jining</u>	<u>Shandong</u>	<u>EC</u>	<u>80</u>	<u>8</u>	<u>42</u>	<u>154</u>	<u>85</u>	<u>6</u>	<u>52</u>	<u>131</u>	<u>100</u>	<u>6</u>	<u>52</u>	<u>185</u>
<u>Laiwu</u>	<u>Shandong</u>	<u>EC</u>	<u>91</u>	<u>9</u>	<u>40</u>	<u>153</u>	<u>96</u>	<u>7</u>	<u>57</u>	<u>156</u>	<u>103</u>	<u>8</u>	<u>41</u>	<u>200</u>
<u>Liaocheng</u>	<u>Shandong</u>	<u>EC</u>	<u>135</u>	<u>12</u>	<u>47</u>	<u>223</u>	<u>101</u>	<u>11</u>	<u>32</u>	<u>169</u>	<u>132</u>	<u>9</u>	<u>45</u>	<u>216</u>
<u>Linyi</u>	<u>Shandong</u>	<u>EC</u>	<u>91</u>	<u>10</u>	<u>36</u>	<u>173</u>	<u>91</u>	<u>8</u>	<u>55</u>	<u>174</u>	<u>101</u>	<u>11</u>	<u>29</u>	<u>262</u>
<u>Qingdao</u>	<u>Shandong</u>	<u>EC</u>	<u>75</u>	<u>5</u>	<u>37</u>	<u>115</u>	<u>68</u>	<u>6</u>	<u>40</u>	<u>135</u>	<u>63</u>	<u>4</u>	<u>35</u>	<u>141</u>
<u>Rizhao</u>	<u>Shandong</u>	<u>EC</u>	<u>69</u>	<u>6</u>	<u>24</u>	<u>123</u>	<u>70</u>	<u>7</u>	<u>29</u>	<u>128</u>	<u>71</u>	<u>7</u>	<u>24</u>	<u>158</u>
<u>Tai'an</u>	<u>Shandong</u>	<u>EC</u>	<u>85</u>	<u>9</u>	<u>39</u>	<u>163</u>	<u>85</u>	<u>7</u>	<u>46</u>	<u>140</u>	<u>103</u>	<u>8</u>	<u>44</u>	<u>196</u>
<u>Weihai</u>	<u>Shandong</u>	<u>EC</u>	<u>69</u>	<u>6</u>	<u>39</u>	<u>123</u>	<u>41</u>	<u>3</u>	<u>21</u>	<u>59</u>	<u>41</u>	<u>3</u>	<u>21</u>	<u>73</u>
<u>Weifang</u>	<u>Shandong</u>	<u>EC</u>	<u>101</u>	<u>9</u>	<u>47</u>	<u>177</u>	<u>99</u>	<u>12</u>	<u>44</u>	<u>198</u>	<u>100</u>	<u>9</u>	<u>39</u>	<u>253</u>
<u>Yantai</u>	<u>Shandong</u>	<u>EC</u>	<u>75</u>	<u>7</u>	<u>36</u>	<u>141</u>	<u>50</u>	<u>4</u>	<u>23</u>	<u>75</u>	<u>53</u>	<u>4</u>	<u>29</u>	<u>120</u>
<u>Zaozhuang</u>	<u>Shandong</u>	<u>EC</u>	<u>92</u>	<u>8</u>	<u>46</u>	<u>148</u>	<u>98</u>	<u>5</u>	<u>69</u>	<u>135</u>	<u>117</u>	<u>9</u>	<u>28</u>	<u>245</u>
<u>Zibo</u>	<u>Shandong</u>	<u>EC</u>	<u>109</u>	<u>7</u>	<u>56</u>	<u>159</u>	<u>106</u>	<u>9</u>	<u>63</u>	<u>164</u>	<u>129</u>	<u>10</u>	<u>49</u>	<u>241</u>
<u>Alxa League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>96</u>	<u>9</u>	<u>56</u>	<u>195</u>	<u>67</u>	<u>4</u>	<u>33</u>	<u>93</u>	<u>57</u>	<u>7</u>	<u>10</u>	<u>160</u>
<u>Bayannur</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>82</u>	<u>8</u>	<u>43</u>	<u>193</u>	<u>67</u>	<u>3</u>	<u>54</u>	<u>94</u>	<u>72</u>	<u>5</u>	<u>37</u>	<u>155</u>
<u>Baotou</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>86</u>	<u>8</u>	<u>35</u>	<u>165</u>	<u>62</u>	<u>3</u>	<u>39</u>	<u>90</u>	<u>71</u>	<u>7</u>	<u>20</u>	<u>145</u>

<u>Chifeng</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>59</u>	<u>7</u>	<u>34</u>	<u>156</u>	<u>35</u>	<u>2</u>	<u>24</u>	<u>49</u>	<u>56</u>	<u>5</u>	<u>17</u>	<u>122</u>
<u>Ordos</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>54</u>	<u>7</u>	<u>20</u>	<u>148</u>	<u>36</u>	<u>2</u>	<u>28</u>	<u>51</u>	<u>46</u>	<u>4</u>	<u>18</u>	<u>97</u>
<u>Hohhot</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>87</u>	<u>8</u>	<u>46</u>	<u>207</u>	<u>54</u>	<u>4</u>	<u>33</u>	<u>80</u>	<u>73</u>	<u>8</u>	<u>16</u>	<u>154</u>
<u>Hulun Buir</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>53</u>	<u>7</u>	<u>16</u>	<u>127</u>	<u>65</u>	<u>5</u>	<u>36</u>	<u>99</u>	<u>54</u>	<u>5</u>	<u>19</u>	<u>115</u>
<u>Tongliao</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>95</u>	<u>8</u>	<u>56</u>	<u>165</u>	<u>62</u>	<u>4</u>	<u>46</u>	<u>99</u>	<u>65</u>	<u>6</u>	<u>31</u>	<u>154</u>
<u>Wuhai</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>104</u>	<u>12</u>	<u>43</u>	<u>280</u>	<u>67</u>	<u>5</u>	<u>33</u>	<u>104</u>	<u>97</u>	<u>8</u>	<u>38</u>	<u>216</u>
<u>Hinggan League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>61</u>	<u>3</u>	<u>41</u>	<u>82</u>	<u>43</u>	<u>2</u>	<u>34</u>	<u>53</u>	<u>45</u>	<u>3</u>	<u>21</u>	<u>89</u>
<u>Anyang</u>	<u>Henan</u>	<u>EC</u>	<u>100</u>	<u>7</u>	<u>49</u>	<u>169</u>	<u>82</u>	<u>9</u>	<u>39</u>	<u>151</u>	<u>118</u>	<u>9</u>	<u>45</u>	<u>256</u>
<u>Hebi</u>	<u>Henan</u>	<u>EC</u>	<u>99</u>	<u>6</u>	<u>59</u>	<u>144</u>	<u>66</u>	<u>8</u>	<u>27</u>	<u>132</u>	<u>98</u>	<u>8</u>	<u>34</u>	<u>193</u>
<u>Jiaozuo</u>	<u>Henan</u>	<u>EC</u>	<u>84</u>	<u>6</u>	<u>40</u>	<u>137</u>	<u>71</u>	<u>8</u>	<u>18</u>	<u>123</u>	<u>66</u>	<u>5</u>	<u>33</u>	<u>123</u>
<u>Kaifeng</u>	<u>Henan</u>	<u>EC</u>	<u>76</u>	<u>5</u>	<u>46</u>	<u>131</u>	<u>68</u>	<u>7</u>	<u>35</u>	<u>130</u>	<u>101</u>	<u>7</u>	<u>33</u>	<u>186</u>
<u>Luoyang</u>	<u>Henan</u>	<u>EC</u>	<u>96</u>	<u>11</u>	<u>34</u>	<u>223</u>	<u>72</u>	<u>5</u>	<u>31</u>	<u>101</u>	<u>75</u>	<u>5</u>	<u>36</u>	<u>134</u>
<u>Luohe</u>	<u>Henan</u>	<u>EC</u>	<u>80</u>	<u>6</u>	<u>42</u>	<u>117</u>	<u>99</u>	<u>7</u>	<u>57</u>	<u>141</u>	<u>139</u>	<u>8</u>	<u>73</u>	<u>271</u>
<u>Nanyang</u>	<u>Henan</u>	<u>EC</u>	<u>93</u>	<u>6</u>	<u>48</u>	<u>140</u>	<u>109</u>	<u>7</u>	<u>67</u>	<u>148</u>	<u>104</u>	<u>7</u>	<u>57</u>	<u>176</u>
<u>Pingdingshan</u>	<u>Henan</u>	<u>EC</u>	<u>91</u>	<u>8</u>	<u>42</u>	<u>148</u>	<u>91</u>	<u>6</u>	<u>61</u>	<u>133</u>	<u>114</u>	<u>8</u>	<u>52</u>	<u>217</u>
<u>Sanmenxia</u>	<u>Henan</u>	<u>EC</u>	<u>100</u>	<u>12</u>	<u>29</u>	<u>255</u>	<u>72</u>	<u>5</u>	<u>42</u>	<u>112</u>	<u>71</u>	<u>5</u>	<u>24</u>	<u>112</u>
<u>Shangqiu</u>	<u>Henan</u>	<u>EC</u>	<u>65</u>	<u>6</u>	<u>30</u>	<u>141</u>	<u>65</u>	<u>6</u>	<u>31</u>	<u>112</u>	<u>83</u>	<u>7</u>	<u>40</u>	<u>158</u>
<u>Xinyang</u>	<u>Henan</u>	<u>EC</u>	<u>56</u>	<u>5</u>	<u>30</u>	<u>104</u>	<u>78</u>	<u>4</u>	<u>45</u>	<u>103</u>	<u>86</u>	<u>6</u>	<u>30</u>	<u>135</u>
<u>Zhengzhou</u>	<u>Henan</u>	<u>EC</u>	<u>107</u>	<u>9</u>	<u>44</u>	<u>187</u>	<u>97</u>	<u>12</u>	<u>37</u>	<u>193</u>	<u>135</u>	<u>10</u>	<u>50</u>	<u>255</u>
<u>Zhoukou</u>	<u>Henan</u>	<u>EC</u>	<u>57</u>	<u>4</u>	<u>29</u>	<u>92</u>	<u>68</u>	<u>5</u>	<u>36</u>	<u>94</u>	<u>103</u>	<u>7</u>	<u>48</u>	<u>193</u>
<u>Zhumadian</u>	<u>Henan</u>	<u>EC</u>	<u>78</u>	<u>6</u>	<u>47</u>	<u>125</u>	<u>88</u>	<u>8</u>	<u>32</u>	<u>128</u>	<u>100</u>	<u>8</u>	<u>32</u>	<u>196</u>
<u>Anshan</u>	<u>Liaoning</u>	<u>NEC</u>	<u>61</u>	<u>5</u>	<u>24</u>	<u>101</u>	<u>70</u>	<u>4</u>	<u>52</u>	<u>101</u>	<u>76</u>	<u>5</u>	<u>38</u>	<u>139</u>
<u>Benxi</u>	<u>Liaoning</u>	<u>NEC</u>	<u>57</u>	<u>5</u>	<u>29</u>	<u>108</u>	<u>57</u>	<u>3</u>	<u>29</u>	<u>80</u>	<u>67</u>	<u>4</u>	<u>27</u>	<u>112</u>
<u>Chaoyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>61</u>	<u>6</u>	<u>34</u>	<u>139</u>	<u>41</u>	<u>2</u>	<u>30</u>	<u>56</u>	<u>64</u>	<u>5</u>	<u>24</u>	<u>146</u>
<u>Dalian</u>	<u>Liaoning</u>	<u>NEC</u>	<u>67</u>	<u>8</u>	<u>25</u>	<u>141</u>	<u>46</u>	<u>4</u>	<u>22</u>	<u>81</u>	<u>49</u>	<u>4</u>	<u>22</u>	<u>97</u>
<u>Dandong</u>	<u>Liaoning</u>	<u>NEC</u>	<u>28</u>	<u>7</u>	<u>0</u>	<u>90</u>	<u>36</u>	<u>2</u>	<u>19</u>	<u>49</u>	<u>50</u>	<u>3</u>	<u>19</u>	<u>84</u>

<u>Fushun</u>	<u>Liaoning</u>	<u>NEC</u>	<u>47</u>	<u>4</u>	<u>25</u>	<u>90</u>	<u>36</u>	<u>3</u>	<u>19</u>	<u>53</u>	<u>60</u>	<u>5</u>	<u>19</u>	<u>98</u>
<u>Fuxin</u>	<u>Liaoning</u>	<u>NEC</u>	<u>72</u>	<u>8</u>	<u>27</u>	<u>143</u>	<u>30</u>	<u>2</u>	<u>17</u>	<u>49</u>	<u>54</u>	<u>4</u>	<u>22</u>	<u>117</u>
<u>Huludao</u>	<u>Liaoning</u>	<u>NEC</u>	<u>94</u>	<u>12</u>	<u>31</u>	<u>191</u>	<u>45</u>	<u>3</u>	<u>33</u>	<u>75</u>	<u>62</u>	<u>5</u>	<u>22</u>	<u>128</u>
<u>Jinzhou</u>	<u>Liaoning</u>	<u>NEC</u>	<u>83</u>	<u>10</u>	<u>38</u>	<u>174</u>	<u>37</u>	<u>3</u>	<u>29</u>	<u>67</u>	<u>60</u>	<u>4</u>	<u>28</u>	<u>114</u>
<u>Liaoyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>60</u>	<u>5</u>	<u>21</u>	<u>103</u>	<u>64</u>	<u>3</u>	<u>44</u>	<u>82</u>	<u>78</u>	<u>6</u>	<u>32</u>	<u>140</u>
<u>Panjin</u>	<u>Liaoning</u>	<u>NEC</u>	<u>63</u>	<u>8</u>	<u>23</u>	<u>141</u>	<u>33</u>	<u>3</u>	<u>25</u>	<u>69</u>	<u>44</u>	<u>3</u>	<u>22</u>	<u>78</u>
<u>Shenyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>62</u>	<u>5</u>	<u>30</u>	<u>99</u>	<u>46</u>	<u>3</u>	<u>30</u>	<u>69</u>	<u>69</u>	<u>5</u>	<u>27</u>	<u>130</u>
<u>Tieling</u>	<u>Liaoning</u>	<u>NEC</u>	<u>48</u>	<u>4</u>	<u>26</u>	<u>83</u>	<u>34</u>	<u>2</u>	<u>15</u>	<u>45</u>	<u>66</u>	<u>5</u>	<u>28</u>	<u>119</u>
<u>Wafangdian</u>	<u>Liaoning</u>	<u>NEC</u>	<u>57</u>	<u>6</u>	<u>21</u>	<u>93</u>	<u>45</u>	<u>3</u>	<u>25</u>	<u>69</u>	<u>55</u>	<u>4</u>	<u>18</u>	<u>92</u>
<u>Yingkou</u>	<u>Liaoning</u>	<u>NEC</u>	<u>54</u>	<u>5</u>	<u>23</u>	<u>109</u>	<u>44</u>	<u>7</u>	<u>14</u>	<u>122</u>	<u>39</u>	<u>5</u>	<u>8</u>	<u>106</u>
<u>Baicheng</u>	<u>Jilin</u>	<u>NEC</u>	<u>63</u>	<u>3</u>	<u>42</u>	<u>83</u>	<u>51</u>	<u>2</u>	<u>39</u>	<u>61</u>	<u>57</u>	<u>3</u>	<u>33</u>	<u>103</u>
<u>Baishan</u>	<u>Jilin</u>	<u>NEC</u>	<u>50</u>	<u>3</u>	<u>26</u>	<u>82</u>	<u>39</u>	<u>2</u>	<u>22</u>	<u>52</u>	<u>59</u>	<u>3</u>	<u>36</u>	<u>92</u>
<u>Changchun</u>	<u>Jilin</u>	<u>NEC</u>	<u>52</u>	<u>4</u>	<u>26</u>	<u>103</u>	<u>42</u>	<u>4</u>	<u>15</u>	<u>64</u>	<u>64</u>	<u>4</u>	<u>28</u>	<u>118</u>
<u>Jilin</u>	<u>Jilin</u>	<u>NEC</u>	<u>38</u>	<u>3</u>	<u>23</u>	<u>59</u>	<u>38</u>	<u>3</u>	<u>14</u>	<u>54</u>	<u>55</u>	<u>2</u>	<u>31</u>	<u>89</u>
<u>Liaoyuan</u>	<u>Jilin</u>	<u>NEC</u>	<u>46</u>	<u>6</u>	<u>21</u>	<u>91</u>	<u>48</u>	<u>8</u>	<u>18</u>	<u>103</u>	<u>53</u>	<u>3</u>	<u>30</u>	<u>96</u>
<u>Siping</u>	<u>Jilin</u>	<u>NEC</u>	<u>59</u>	<u>5</u>	<u>27</u>	<u>118</u>	<u>40</u>	<u>3</u>	<u>18</u>	<u>54</u>	<u>63</u>	<u>4</u>	<u>26</u>	<u>119</u>
<u>Songyuan</u>	<u>Jilin</u>	<u>NEC</u>	<u>34</u>	<u>2</u>	<u>20</u>	<u>55</u>	<u>23</u>	<u>2</u>	<u>8</u>	<u>37</u>	<u>40</u>	<u>3</u>	<u>14</u>	<u>71</u>
<u>Daqing</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>47</u>	<u>2</u>	<u>33</u>	<u>75</u>	<u>38</u>	<u>2</u>	<u>26</u>	<u>48</u>	<u>40</u>	<u>3</u>	<u>22</u>	<u>74</u>
<u>Daxinganling</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>48</u>	<u>3</u>	<u>31</u>	<u>88</u>	<u>43</u>	<u>2</u>	<u>35</u>	<u>53</u>	<u>44</u>	<u>3</u>	<u>25</u>	<u>84</u>
<u>Harbin</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>45</u>	<u>2</u>	<u>26</u>	<u>59</u>	<u>32</u>	<u>2</u>	<u>15</u>	<u>47</u>	<u>51</u>	<u>3</u>	<u>26</u>	<u>92</u>
<u>Hegang</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>80</u>	<u>4</u>	<u>48</u>	<u>123</u>	<u>48</u>	<u>5</u>	<u>21</u>	<u>100</u>	<u>26</u>	<u>3</u>	<u>7</u>	<u>57</u>
<u>Heihe</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>56</u>	<u>3</u>	<u>32</u>	<u>81</u>	<u>41</u>	<u>2</u>	<u>30</u>	<u>56</u>	<u>24</u>	<u>3</u>	<u>7</u>	<u>56</u>
<u>Jixi</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>35</u>	<u>2</u>	<u>24</u>	<u>46</u>	<u>30</u>	<u>3</u>	<u>15</u>	<u>54</u>	<u>50</u>	<u>3</u>	<u>21</u>	<u>87</u>
<u>Jiamusi</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>29</u>	<u>2</u>	<u>16</u>	<u>43</u>	<u>26</u>	<u>2</u>	<u>14</u>	<u>44</u>	<u>19</u>	<u>1</u>	<u>7</u>	<u>32</u>
<u>Mudanjiang</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>38</u>	<u>1</u>	<u>27</u>	<u>53</u>	<u>45</u>	<u>2</u>	<u>31</u>	<u>59</u>	<u>55</u>	<u>3</u>	<u>34</u>	<u>92</u>
<u>Qitaihe</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>36</u>	<u>2</u>	<u>21</u>	<u>56</u>	<u>32</u>	<u>3</u>	<u>14</u>	<u>51</u>	<u>52</u>	<u>3</u>	<u>32</u>	<u>99</u>

<u>Qiqihar</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>47</u>	<u>3</u>	<u>30</u>	<u>68</u>	<u>42</u>	<u>2</u>	<u>31</u>	<u>56</u>	<u>45</u>	<u>3</u>	<u>24</u>	<u>91</u>
<u>Shuangyashan</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>44</u>	<u>2</u>	<u>35</u>	<u>57</u>	<u>45</u>	<u>3</u>	<u>27</u>	<u>63</u>	<u>39</u>	<u>2</u>	<u>24</u>	<u>64</u>
<u>Suihua</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>14</u>	<u>40</u>	<u>21</u>	<u>1</u>	<u>15</u>	<u>32</u>	<u>30</u>	<u>2</u>	<u>13</u>	<u>57</u>
<u>Ankang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>34</u>	<u>3</u>	<u>11</u>	<u>60</u>	<u>43</u>	<u>2</u>	<u>26</u>	<u>59</u>	<u>53</u>	<u>3</u>	<u>20</u>	<u>92</u>
<u>Baoji</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>87</u>	<u>14</u>	<u>31</u>	<u>286</u>	<u>73</u>	<u>5</u>	<u>42</u>	<u>113</u>	<u>69</u>	<u>5</u>	<u>18</u>	<u>122</u>
<u>Hanzhong</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>42</u>	<u>5</u>	<u>19</u>	<u>126</u>	<u>50</u>	<u>2</u>	<u>33</u>	<u>58</u>	<u>45</u>	<u>3</u>	<u>12</u>	<u>75</u>
<u>Shangluo</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>53</u>	<u>10</u>	<u>18</u>	<u>213</u>	<u>45</u>	<u>3</u>	<u>28</u>	<u>57</u>	<u>53</u>	<u>4</u>	<u>25</u>	<u>88</u>
<u>Tongchuan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>75</u>	<u>9</u>	<u>35</u>	<u>178</u>	<u>64</u>	<u>2</u>	<u>46</u>	<u>82</u>	<u>71</u>	<u>5</u>	<u>26</u>	<u>107</u>
<u>Weinan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>79</u>	<u>11</u>	<u>16</u>	<u>219</u>	<u>74</u>	<u>4</u>	<u>46</u>	<u>102</u>	<u>94</u>	<u>7</u>	<u>37</u>	<u>178</u>
<u>Xi'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>106</u>	<u>15</u>	<u>30</u>	<u>285</u>	<u>94</u>	<u>5</u>	<u>61</u>	<u>136</u>	<u>80</u>	<u>5</u>	<u>24</u>	<u>123</u>
<u>Xianyang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>79</u>	<u>10</u>	<u>22</u>	<u>189</u>	<u>78</u>	<u>4</u>	<u>43</u>	<u>104</u>	<u>78</u>	<u>5</u>	<u>26</u>	<u>129</u>
<u>Yan'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>76</u>	<u>8</u>	<u>39</u>	<u>194</u>	<u>67</u>	<u>3</u>	<u>53</u>	<u>95</u>	<u>73</u>	<u>5</u>	<u>21</u>	<u>119</u>
<u>Yulin</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>70</u>	<u>8</u>	<u>26</u>	<u>160</u>	<u>59</u>	<u>5</u>	<u>39</u>	<u>97</u>	<u>63</u>	<u>5</u>	<u>19</u>	<u>133</u>
<u>Baiying</u>	<u>Gansu</u>	<u>NEC</u>	<u>71</u>	<u>11</u>	<u>19</u>	<u>247</u>	<u>71</u>	<u>4</u>	<u>37</u>	<u>100</u>	<u>73</u>	<u>8</u>	<u>18</u>	<u>192</u>
<u>Dingxi</u>	<u>Gansu</u>	<u>NEC</u>	<u>49</u>	<u>4</u>	<u>19</u>	<u>74</u>	<u>59</u>	<u>4</u>	<u>39</u>	<u>91</u>	<u>42</u>	<u>2</u>	<u>23</u>	<u>67</u>
<u>Gannan</u>	<u>Gansu</u>	<u>NEC</u>	<u>42</u>	<u>4</u>	<u>19</u>	<u>80</u>	<u>68</u>	<u>7</u>	<u>43</u>	<u>140</u>	<u>38</u>	<u>3</u>	<u>15</u>	<u>63</u>
<u>Jiayuguan</u>	<u>Gansu</u>	<u>NEC</u>	<u>85</u>	<u>22</u>	<u>31</u>	<u>421</u>	<u>82</u>	<u>11</u>	<u>38</u>	<u>212</u>	<u>87</u>	<u>21</u>	<u>15</u>	<u>535</u>
<u>Jiuquan</u>	<u>Gansu</u>	<u>NEC</u>	<u>126</u>	<u>39</u>	<u>45</u>	<u>662</u>	<u>96</u>	<u>8</u>	<u>49</u>	<u>180</u>	<u>82</u>	<u>15</u>	<u>27</u>	<u>458</u>
<u>Lanzhou</u>	<u>Gansu</u>	<u>NEC</u>	<u>90</u>	<u>10</u>	<u>36</u>	<u>237</u>	<u>81</u>	<u>6</u>	<u>45</u>	<u>117</u>	<u>80</u>	<u>6</u>	<u>24</u>	<u>163</u>
<u>Linxia</u>	<u>Gansu</u>	<u>NEC</u>	<u>46</u>	<u>3</u>	<u>20</u>	<u>82</u>	<u>44</u>	<u>2</u>	<u>34</u>	<u>57</u>	<u>40</u>	<u>2</u>	<u>26</u>	<u>57</u>
<u>Pingliang</u>	<u>Gansu</u>	<u>NEC</u>	<u>59</u>	<u>6</u>	<u>22</u>	<u>135</u>	<u>41</u>	<u>2</u>	<u>27</u>	<u>51</u>	<u>46</u>	<u>4</u>	<u>19</u>	<u>102</u>
<u>Qingyang</u>	<u>Gansu</u>	<u>NEC</u>	<u>54</u>	<u>10</u>	<u>14</u>	<u>186</u>	<u>40</u>	<u>2</u>	<u>27</u>	<u>54</u>	<u>36</u>	<u>3</u>	<u>12</u>	<u>63</u>
<u>Tianshui</u>	<u>Gansu</u>	<u>NEC</u>	<u>43</u>	<u>9</u>	<u>14</u>	<u>200</u>	<u>28</u>	<u>2</u>	<u>16</u>	<u>41</u>	<u>22</u>	<u>1</u>	<u>9</u>	<u>43</u>
<u>Wuwei</u>	<u>Gansu</u>	<u>NEC</u>	<u>80</u>	<u>13</u>	<u>39</u>	<u>284</u>	<u>74</u>	<u>7</u>	<u>34</u>	<u>129</u>	<u>51</u>	<u>4</u>	<u>15</u>	<u>115</u>
<u>Zhangye</u>	<u>Gansu</u>	<u>NEC</u>	<u>50</u>	<u>11</u>	<u>20</u>	<u>199</u>	<u>34</u>	<u>4</u>	<u>9</u>	<u>58</u>	<u>40</u>	<u>7</u>	<u>17</u>	<u>212</u>
<u>Guyuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>75</u>	<u>11</u>	<u>27</u>	<u>232</u>	<u>55</u>	<u>3</u>	<u>28</u>	<u>71</u>	<u>54</u>	<u>6</u>	<u>14</u>	<u>157</u>

<u>Shizuishan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>86</u>	<u>12</u>	<u>40</u>	<u>258</u>	<u>64</u>	<u>5</u>	<u>39</u>	<u>90</u>	<u>81</u>	<u>9</u>	<u>31</u>	<u>252</u>
<u>Wuzhong</u>	<u>Ningxia</u>	<u>NEC</u>	<u>75</u>	<u>9</u>	<u>35</u>	<u>157</u>	<u>78</u>	<u>4</u>	<u>51</u>	<u>99</u>	<u>68</u>	<u>5</u>	<u>26</u>	<u>156</u>
<u>Yinchuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>96</u>	<u>8</u>	<u>58</u>	<u>187</u>	<u>74</u>	<u>5</u>	<u>44</u>	<u>104</u>	<u>69</u>	<u>4</u>	<u>30</u>	<u>107</u>
<u>Zhongwei</u>	<u>Ningxia</u>	<u>NEC</u>	<u>65</u>	<u>8</u>	<u>30</u>	<u>168</u>	<u>63</u>	<u>4</u>	<u>29</u>	<u>79</u>	<u>58</u>	<u>7</u>	<u>12</u>	<u>201</u>
<u>Aksu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>255</u>	<u>46</u>	<u>46</u>	<u>804</u>	<u>118</u>	<u>18</u>	<u>48</u>	<u>231</u>	<u>118</u>	<u>17</u>	<u>31</u>	<u>466</u>
<u>Hami</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>79</u>	<u>8</u>	<u>39</u>	<u>197</u>	<u>114</u>	<u>16</u>	<u>72</u>	<u>317</u>	<u>81</u>	<u>7</u>	<u>34</u>	<u>176</u>
<u>Hotan</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>485</u>	<u>117</u>	<u>77</u>	<u>2562</u>	<u>296</u>	<u>42</u>	<u>67</u>	<u>628</u>	<u>176</u>	<u>25</u>	<u>52</u>	<u>627</u>
<u>Kashgar</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>295</u>	<u>63</u>	<u>97</u>	<u>1039</u>	<u>151</u>	<u>32</u>	<u>43</u>	<u>413</u>	<u>194</u>	<u>25</u>	<u>57</u>	<u>534</u>
<u>Karamay</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>53</u>	<u>5</u>	<u>21</u>	<u>139</u>	<u>58</u>	<u>8</u>	<u>31</u>	<u>147</u>	<u>43</u>	<u>4</u>	<u>23</u>	<u>134</u>
<u>Kizilsu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>213</u>	<u>46</u>	<u>21</u>	<u>757</u>	<u>97</u>	<u>24</u>	<u>23</u>	<u>291</u>	<u>135</u>	<u>21</u>	<u>25</u>	<u>438</u>
<u>Shihezi</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>79</u>	<u>19</u>	<u>18</u>	<u>369</u>	<u>59</u>	<u>8</u>	<u>24</u>	<u>134</u>	<u>55</u>	<u>6</u>	<u>11</u>	<u>139</u>
<u>Urumchi</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>95</u>	<u>9</u>	<u>30</u>	<u>209</u>	<u>102</u>	<u>15</u>	<u>38</u>	<u>208</u>	<u>81</u>	<u>8</u>	<u>18</u>	<u>183</u>
<u>Wujiaqu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>86</u>	<u>11</u>	<u>26</u>	<u>225</u>	<u>95</u>	<u>18</u>	<u>21</u>	<u>229</u>	<u>68</u>	<u>9</u>	<u>9</u>	<u>200</u>
<u>Yili</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>64</u>	<u>4</u>	<u>27</u>	<u>97</u>	<u>66</u>	<u>9</u>	<u>17</u>	<u>127</u>	<u>62</u>	<u>7</u>	<u>16</u>	<u>167</u>
<u>Ezhou</u>	<u>Hubei</u>	<u>NEC</u>	<u>61</u>	<u>5</u>	<u>16</u>	<u>98</u>	<u>79</u>	<u>5</u>	<u>36</u>	<u>110</u>	<u>78</u>	<u>3</u>	<u>32</u>	<u>106</u>
<u>Huanggang</u>	<u>Hubei</u>	<u>NEC</u>	<u>48</u>	<u>4</u>	<u>18</u>	<u>87</u>	<u>63</u>	<u>3</u>	<u>29</u>	<u>83</u>	<u>64</u>	<u>3</u>	<u>32</u>	<u>98</u>
<u>Jingmen</u>	<u>Hubei</u>	<u>NEC</u>	<u>58</u>	<u>6</u>	<u>20</u>	<u>135</u>	<u>90</u>	<u>6</u>	<u>44</u>	<u>122</u>	<u>98</u>	<u>6</u>	<u>41</u>	<u>165</u>
<u>Shiyan</u>	<u>Hubei</u>	<u>NEC</u>	<u>48</u>	<u>4</u>	<u>21</u>	<u>85</u>	<u>63</u>	<u>5</u>	<u>38</u>	<u>92</u>	<u>77</u>	<u>6</u>	<u>25</u>	<u>148</u>
<u>Wuhan</u>	<u>Hubei</u>	<u>NEC</u>	<u>66</u>	<u>6</u>	<u>13</u>	<u>116</u>	<u>103</u>	<u>8</u>	<u>42</u>	<u>158</u>	<u>85</u>	<u>5</u>	<u>27</u>	<u>143</u>
<u>Xianning</u>	<u>Hubei</u>	<u>NEC</u>	<u>55</u>	<u>4</u>	<u>28</u>	<u>93</u>	<u>83</u>	<u>4</u>	<u>41</u>	<u>96</u>	<u>67</u>	<u>3</u>	<u>34</u>	<u>87</u>
<u>Xiangyang</u>	<u>Hubei</u>	<u>NEC</u>	<u>59</u>	<u>5</u>	<u>26</u>	<u>112</u>	<u>80</u>	<u>5</u>	<u>51</u>	<u>115</u>	<u>91</u>	<u>6</u>	<u>32</u>	<u>142</u>
<u>Xiaogan</u>	<u>Hubei</u>	<u>NEC</u>	<u>55</u>	<u>4</u>	<u>30</u>	<u>84</u>	<u>79</u>	<u>5</u>	<u>45</u>	<u>108</u>	<u>81</u>	<u>4</u>	<u>47</u>	<u>138</u>
<u>Yichang</u>	<u>Hubei</u>	<u>NEC</u>	<u>58</u>	<u>6</u>	<u>21</u>	<u>117</u>	<u>85</u>	<u>5</u>	<u>55</u>	<u>131</u>	<u>77</u>	<u>5</u>	<u>24</u>	<u>131</u>
<u>Anqing</u>	<u>Anhui</u>	<u>NEC</u>	<u>58</u>	<u>4</u>	<u>25</u>	<u>80</u>	<u>53</u>	<u>4</u>	<u>24</u>	<u>77</u>	<u>49</u>	<u>2</u>	<u>21</u>	<u>70</u>
<u>Bengbu</u>	<u>Anhui</u>	<u>NEC</u>	<u>64</u>	<u>5</u>	<u>19</u>	<u>102</u>	<u>85</u>	<u>6</u>	<u>32</u>	<u>136</u>	<u>77</u>	<u>5</u>	<u>23</u>	<u>141</u>
<u>Bozhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>60</u>	<u>4</u>	<u>37</u>	<u>98</u>	<u>85</u>	<u>6</u>	<u>48</u>	<u>114</u>	<u>92</u>	<u>5</u>	<u>29</u>	<u>164</u>

<u>Chuzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>69</u>	<u>6</u>	<u>20</u>	<u>112</u>	<u>81</u>	<u>7</u>	<u>34</u>	<u>125</u>	<u>77</u>	<u>5</u>	<u>50</u>	<u>145</u>
<u>Fuyang</u>	<u>Anhui</u>	<u>NEC</u>	<u>59</u>	<u>4</u>	<u>28</u>	<u>94</u>	<u>77</u>	<u>5</u>	<u>45</u>	<u>133</u>	<u>61</u>	<u>3</u>	<u>21</u>	<u>98</u>
<u>Hefei</u>	<u>Anhui</u>	<u>NEC</u>	<u>67</u>	<u>5</u>	<u>14</u>	<u>99</u>	<u>79</u>	<u>6</u>	<u>26</u>	<u>120</u>	<u>69</u>	<u>4</u>	<u>25</u>	<u>102</u>
<u>Huaibei</u>	<u>Anhui</u>	<u>NEC</u>	<u>66</u>	<u>7</u>	<u>27</u>	<u>129</u>	<u>63</u>	<u>4</u>	<u>42</u>	<u>84</u>	<u>85</u>	<u>7</u>	<u>23</u>	<u>168</u>
<u>Huainan</u>	<u>Anhui</u>	<u>NEC</u>	<u>53</u>	<u>4</u>	<u>32</u>	<u>85</u>	<u>78</u>	<u>6</u>	<u>35</u>	<u>118</u>	<u>75</u>	<u>4</u>	<u>35</u>	<u>130</u>
<u>Huangshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>30</u>	<u>2</u>	<u>14</u>	<u>43</u>	<u>46</u>	<u>5</u>	<u>19</u>	<u>83</u>	<u>40</u>	<u>2</u>	<u>21</u>	<u>62</u>
<u>Lu'an</u>	<u>Anhui</u>	<u>NEC</u>	<u>58</u>	<u>4</u>	<u>20</u>	<u>96</u>	<u>79</u>	<u>4</u>	<u>48</u>	<u>103</u>	<u>70</u>	<u>3</u>	<u>23</u>	<u>98</u>
<u>Ma'anshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>60</u>	<u>4</u>	<u>20</u>	<u>84</u>	<u>79</u>	<u>7</u>	<u>34</u>	<u>120</u>	<u>64</u>	<u>3</u>	<u>38</u>	<u>115</u>
<u>Suzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>72</u>	<u>8</u>	<u>29</u>	<u>142</u>	<u>85</u>	<u>6</u>	<u>45</u>	<u>119</u>	<u>87</u>	<u>7</u>	<u>26</u>	<u>203</u>
<u>Tongling</u>	<u>Anhui</u>	<u>NEC</u>	<u>83</u>	<u>6</u>	<u>38</u>	<u>142</u>	<u>102</u>	<u>9</u>	<u>49</u>	<u>150</u>	<u>69</u>	<u>3</u>	<u>39</u>	<u>96</u>
<u>Wuhu</u>	<u>Anhui</u>	<u>NEC</u>	<u>54</u>	<u>3</u>	<u>26</u>	<u>78</u>	<u>74</u>	<u>5</u>	<u>35</u>	<u>107</u>	<u>68</u>	<u>4</u>	<u>40</u>	<u>107</u>
<u>Changzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>66</u>	<u>7</u>	<u>24</u>	<u>126</u>	<u>79</u>	<u>9</u>	<u>14</u>	<u>121</u>	<u>67</u>	<u>5</u>	<u>37</u>	<u>127</u>
<u>Huaian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>57</u>	<u>5</u>	<u>18</u>	<u>100</u>	<u>72</u>	<u>6</u>	<u>20</u>	<u>120</u>	<u>56</u>	<u>4</u>	<u>17</u>	<u>103</u>
<u>Lianyungang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>55</u>	<u>5</u>	<u>23</u>	<u>92</u>	<u>69</u>	<u>7</u>	<u>24</u>	<u>139</u>	<u>56</u>	<u>5</u>	<u>17</u>	<u>121</u>
<u>Nanjing</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>61</u>	<u>5</u>	<u>12</u>	<u>89</u>	<u>69</u>	<u>7</u>	<u>27</u>	<u>105</u>	<u>60</u>	<u>4</u>	<u>30</u>	<u>112</u>
<u>Nantong</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>56</u>	<u>5</u>	<u>21</u>	<u>91</u>	<u>59</u>	<u>8</u>	<u>15</u>	<u>136</u>	<u>51</u>	<u>4</u>	<u>27</u>	<u>99</u>
<u>Suzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>60</u>	<u>5</u>	<u>26</u>	<u>92</u>	<u>76</u>	<u>8</u>	<u>23</u>	<u>125</u>	<u>57</u>	<u>4</u>	<u>23</u>	<u>107</u>
<u>Suqian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>56</u>	<u>5</u>	<u>24</u>	<u>94</u>	<u>67</u>	<u>4</u>	<u>28</u>	<u>104</u>	<u>64</u>	<u>6</u>	<u>17</u>	<u>165</u>
<u>Taizhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>74</u>	<u>7</u>	<u>24</u>	<u>128</u>	<u>75</u>	<u>7</u>	<u>28</u>	<u>123</u>	<u>67</u>	<u>3</u>	<u>43</u>	<u>109</u>
<u>Wuxi</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>61</u>	<u>5</u>	<u>27</u>	<u>96</u>	<u>79</u>	<u>8</u>	<u>25</u>	<u>130</u>	<u>63</u>	<u>4</u>	<u>30</u>	<u>114</u>
<u>Xuzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>62</u>	<u>5</u>	<u>25</u>	<u>109</u>	<u>78</u>	<u>4</u>	<u>53</u>	<u>104</u>	<u>77</u>	<u>6</u>	<u>27</u>	<u>155</u>
<u>Yanchen</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>56</u>	<u>6</u>	<u>19</u>	<u>104</u>	<u>51</u>	<u>4</u>	<u>16</u>	<u>81</u>	<u>48</u>	<u>3</u>	<u>27</u>	<u>87</u>
<u>Yangzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>64</u>	<u>6</u>	<u>20</u>	<u>112</u>	<u>63</u>	<u>5</u>	<u>30</u>	<u>82</u>	<u>57</u>	<u>4</u>	<u>31</u>	<u>106</u>
<u>Zhenjiang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>50</u>	<u>5</u>	<u>12</u>	<u>92</u>	<u>57</u>	<u>6</u>	<u>14</u>	<u>86</u>	<u>50</u>	<u>4</u>	<u>24</u>	<u>112</u>
<u>Shanghai</u>	<u>Municipality</u>	<u>NEC</u>	<u>52</u>	<u>4</u>	<u>27</u>	<u>92</u>	<u>72</u>	<u>10</u>	<u>17</u>	<u>149</u>	<u>43</u>	<u>3</u>	<u>23</u>	<u>84</u>
<u>Hangzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>53</u>	<u>5</u>	<u>24</u>	<u>96</u>	<u>64</u>	<u>7</u>	<u>20</u>	<u>107</u>	<u>61</u>	<u>4</u>	<u>18</u>	<u>106</u>

<u>Huzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>48</u>	<u>4</u>	<u>21</u>	<u>80</u>	<u>64</u>	<u>7</u>	<u>19</u>	<u>99</u>	<u>50</u>	<u>3</u>	<u>25</u>	<u>109</u>
<u>Jiaxing</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>51</u>	<u>4</u>	<u>29</u>	<u>74</u>	<u>72</u>	<u>8</u>	<u>25</u>	<u>134</u>	<u>55</u>	<u>3</u>	<u>24</u>	<u>117</u>
<u>Jinhua</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>49</u>	<u>3</u>	<u>18</u>	<u>78</u>	<u>69</u>	<u>8</u>	<u>18</u>	<u>118</u>	<u>61</u>	<u>4</u>	<u>22</u>	<u>114</u>
<u>Lishui</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>39</u>	<u>3</u>	<u>12</u>	<u>59</u>	<u>47</u>	<u>3</u>	<u>26</u>	<u>66</u>	<u>49</u>	<u>4</u>	<u>12</u>	<u>97</u>
<u>Ningbo</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>38</u>	<u>2</u>	<u>24</u>	<u>65</u>	<u>51</u>	<u>6</u>	<u>17</u>	<u>101</u>	<u>49</u>	<u>3</u>	<u>20</u>	<u>83</u>
<u>Quzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>49</u>	<u>3</u>	<u>18</u>	<u>78</u>	<u>70</u>	<u>8</u>	<u>18</u>	<u>110</u>	<u>54</u>	<u>4</u>	<u>23</u>	<u>96</u>
<u>Shaoxing</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>48</u>	<u>4</u>	<u>23</u>	<u>89</u>	<u>76</u>	<u>9</u>	<u>24</u>	<u>138</u>	<u>63</u>	<u>4</u>	<u>18</u>	<u>100</u>
<u>Taizhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>41</u>	<u>2</u>	<u>31</u>	<u>57</u>	<u>45</u>	<u>5</u>	<u>20</u>	<u>81</u>	<u>48</u>	<u>2</u>	<u>30</u>	<u>85</u>
<u>Wenjiang</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>48</u>	<u>3</u>	<u>29</u>	<u>73</u>	<u>48</u>	<u>4</u>	<u>24</u>	<u>71</u>	<u>51</u>	<u>2</u>	<u>29</u>	<u>78</u>
<u>Zhoushan</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>28</u>	<u>1</u>	<u>22</u>	<u>44</u>	<u>34</u>	<u>5</u>	<u>11</u>	<u>72</u>	<u>31</u>	<u>2</u>	<u>17</u>	<u>65</u>
<u>Fuzhou</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>46</u>	<u>4</u>	<u>26</u>	<u>79</u>	<u>67</u>	<u>6</u>	<u>30</u>	<u>106</u>	<u>61</u>	<u>4</u>	<u>21</u>	<u>99</u>
<u>Ganzhou</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>60</u>	<u>5</u>	<u>33</u>	<u>102</u>	<u>61</u>	<u>5</u>	<u>32</u>	<u>99</u>	<u>61</u>	<u>3</u>	<u>33</u>	<u>93</u>
<u>Ji'an</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>51</u>	<u>4</u>	<u>23</u>	<u>89</u>	<u>57</u>	<u>6</u>	<u>24</u>	<u>100</u>	<u>55</u>	<u>3</u>	<u>23</u>	<u>75</u>
<u>Jingdezhen</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>53</u>	<u>5</u>	<u>20</u>	<u>85</u>	<u>71</u>	<u>6</u>	<u>31</u>	<u>99</u>	<u>51</u>	<u>3</u>	<u>19</u>	<u>81</u>
<u>Jiujiang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>53</u>	<u>4</u>	<u>17</u>	<u>81</u>	<u>74</u>	<u>6</u>	<u>38</u>	<u>103</u>	<u>55</u>	<u>3</u>	<u>13</u>	<u>80</u>
<u>Nanchang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>66</u>	<u>7</u>	<u>19</u>	<u>118</u>	<u>80</u>	<u>8</u>	<u>31</u>	<u>149</u>	<u>57</u>	<u>3</u>	<u>12</u>	<u>88</u>
<u>Pingxiang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>47</u>	<u>3</u>	<u>29</u>	<u>79</u>	<u>83</u>	<u>7</u>	<u>33</u>	<u>124</u>	<u>73</u>	<u>4</u>	<u>30</u>	<u>104</u>
<u>Shangrao</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>54</u>	<u>4</u>	<u>23</u>	<u>77</u>	<u>62</u>	<u>6</u>	<u>30</u>	<u>108</u>	<u>55</u>	<u>3</u>	<u>30</u>	<u>95</u>
<u>Xinyu</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>53</u>	<u>3</u>	<u>26</u>	<u>79</u>	<u>70</u>	<u>5</u>	<u>35</u>	<u>99</u>	<u>63</u>	<u>2</u>	<u>32</u>	<u>81</u>
<u>Yichun</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>44</u>	<u>2</u>	<u>33</u>	<u>70</u>	<u>68</u>	<u>4</u>	<u>43</u>	<u>93</u>	<u>65</u>	<u>3</u>	<u>34</u>	<u>85</u>
<u>Yingtan</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>39</u>	<u>4</u>	<u>13</u>	<u>64</u>	<u>61</u>	<u>5</u>	<u>35</u>	<u>88</u>	<u>57</u>	<u>3</u>	<u>21</u>	<u>85</u>
<u>Changsha</u>	<u>Hunan</u>	<u>NEC</u>	<u>47</u>	<u>3</u>	<u>15</u>	<u>72</u>	<u>85</u>	<u>6</u>	<u>31</u>	<u>124</u>	<u>72</u>	<u>5</u>	<u>25</u>	<u>124</u>
<u>Changde</u>	<u>Hunan</u>	<u>NEC</u>	<u>41</u>	<u>3</u>	<u>17</u>	<u>62</u>	<u>59</u>	<u>4</u>	<u>25</u>	<u>80</u>	<u>65</u>	<u>4</u>	<u>28</u>	<u>104</u>
<u>Chenzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>53</u>	<u>4</u>	<u>30</u>	<u>81</u>	<u>71</u>	<u>9</u>	<u>28</u>	<u>157</u>	<u>80</u>	<u>5</u>	<u>39</u>	<u>140</u>
<u>Huaihua</u>	<u>Hunan</u>	<u>NEC</u>	<u>49</u>	<u>3</u>	<u>33</u>	<u>71</u>	<u>91</u>	<u>6</u>	<u>36</u>	<u>125</u>	<u>84</u>	<u>6</u>	<u>30</u>	<u>149</u>
<u>Loudi</u>	<u>Hunan</u>	<u>NEC</u>	<u>52</u>	<u>3</u>	<u>28</u>	<u>88</u>	<u>87</u>	<u>6</u>	<u>41</u>	<u>117</u>	<u>73</u>	<u>5</u>	<u>26</u>	<u>139</u>

Xiangtan	Hunan	NEC	48	3	25	76	90	6	37	123	79	5	32	150
Yiyang	Hunan	NEC	48	3	29	70	79	4	40	104	80	5	38	168
Yongzhou	Hunan	NEC	57	3	40	88	69	5	37	100	81	6	39	183
Zhangjiajie	Hunan	NEC	44	3	18	80	71	5	35	102	71	5	15	109
Zhuzhou	Hunan	NEC	42	3	23	70	81	7	38	134	69	4	28	104
Dongguan	Guangdong	NEC	39	2	21	63	50	4	27	78	55	3	31	93
Foshan	Guangdong	NEC	52	3	35	83	63	6	27	105	55	3	27	81
Guangzhou	Guangdong	NEC	55	2	34	75	57	5	31	93	65	3	37	100
Heyuan	Guangdong	NEC	37	2	20	55	45	5	22	79	55	3	24	89
Huizhou	Guangdong	NEC	44	3	24	72	45	5	19	76	43	4	20	82
Jiangmen	Guangdong	NEC	33	3	16	58	52	7	18	94	49	3	27	80
Maoming	Guangdong	NEC	34	4	13	81	46	8	9	94	43	4	20	83
Meizhou	Guangdong	NEC	38	3	18	61	39	5	16	71	50	3	24	86
Qingyuan	Guangdong	NEC	51	3	29	80	44	6	19	84	49	4	16	115
Shantou	Guangdong	NEC	42	3	20	66	42	5	25	74	48	2	30	77
Shaoguan	Guangdong	NEC	47	3	29	82	46	6	20	79	59	4	17	108
Shenzhen	Guangdong	NEC	37	4	20	78	44	6	20	77	47	3	28	79
Zhujiang	Guangdong	NEC	33	3	13	64	50	8	16	99	40	3	21	85
Zhaoqing	Guangdong	NEC	47	3	27	77	54	6	27	104	55	4	17	96
Zhongshan	Guangdong	NEC	31	4	15	76	39	6	11	80	43	3	21	81
Zhuhai	Guangdong	NEC	38	5	21	95	47	8	17	101	53	4	21	108
Fuzhou	Fujian	NEC	44	4	11	86	38	3	19	55	42	2	17	65
Longyan	Fujian	NEC	33	3	10	65	34	4	17	58	46	3	19	78
Nanping	Fujian	NEC	25	2	7	48	26	3	13	51	31	2	16	51
Ningde	Fujian	NEC	35	3	10	59	31	2	20	43	34	2	14	51
Putian	Fujian	NEC	38	3	18	58	31	2	19	41	40	2	21	56

<u>Quanzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>45</u>	<u>5</u>	<u>10</u>	<u>98</u>	<u>30</u>	<u>4</u>	<u>18</u>	<u>59</u>	<u>46</u>	<u>3</u>	<u>22</u>	<u>92</u>
<u>Sanming</u>	<u>Fujian</u>	<u>NEC</u>	<u>44</u>	<u>4</u>	<u>11</u>	<u>74</u>	<u>41</u>	<u>5</u>	<u>18</u>	<u>78</u>	<u>48</u>	<u>4</u>	<u>11</u>	<u>81</u>
<u>Xiamen</u>	<u>Fujian</u>	<u>NEC</u>	<u>37</u>	<u>3</u>	<u>21</u>	<u>65</u>	<u>32</u>	<u>2</u>	<u>21</u>	<u>51</u>	<u>45</u>	<u>2</u>	<u>20</u>	<u>62</u>
<u>Zhangzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>43</u>	<u>3</u>	<u>24</u>	<u>80</u>	<u>42</u>	<u>2</u>	<u>33</u>	<u>59</u>	<u>52</u>	<u>2</u>	<u>24</u>	<u>84</u>
<u>Haikou</u>	<u>Hainan</u>	<u>NEC</u>	<u>28</u>	<u>2</u>	<u>19</u>	<u>46</u>	<u>34</u>	<u>4</u>	<u>20</u>	<u>68</u>	<u>30</u>	<u>2</u>	<u>12</u>	<u>65</u>
<u>Sanya</u>	<u>Hainan</u>	<u>NEC</u>	<u>21</u>	<u>1</u>	<u>16</u>	<u>30</u>	<u>24</u>	<u>2</u>	<u>15</u>	<u>33</u>	<u>23</u>	<u>1</u>	<u>10</u>	<u>35</u>
<u>Chongqing</u>	<u>Municipality</u>	<u>NEC</u>	<u>58</u>	<u>5</u>	<u>21</u>	<u>104</u>	<u>82</u>	<u>5</u>	<u>42</u>	<u>106</u>	<u>49</u>	<u>4</u>	<u>19</u>	<u>86</u>
<u>Bazhong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>11</u>	<u>41</u>	<u>35</u>	<u>2</u>	<u>25</u>	<u>46</u>	<u>30</u>	<u>2</u>	<u>12</u>	<u>54</u>
<u>Chengdu</u>	<u>Sichuan</u>	<u>NEC</u>	<u>62</u>	<u>7</u>	<u>15</u>	<u>134</u>	<u>88</u>	<u>8</u>	<u>42</u>	<u>139</u>	<u>53</u>	<u>5</u>	<u>16</u>	<u>158</u>
<u>Dazhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>49</u>	<u>3</u>	<u>12</u>	<u>73</u>	<u>86</u>	<u>5</u>	<u>53</u>	<u>121</u>	<u>62</u>	<u>4</u>	<u>26</u>	<u>96</u>
<u>Deyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>56</u>	<u>4</u>	<u>22</u>	<u>87</u>	<u>89</u>	<u>9</u>	<u>43</u>	<u>169</u>	<u>49</u>	<u>4</u>	<u>19</u>	<u>96</u>
<u>Guangyuan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>35</u>	<u>4</u>	<u>16</u>	<u>101</u>	<u>38</u>	<u>2</u>	<u>29</u>	<u>50</u>	<u>31</u>	<u>2</u>	<u>15</u>	<u>50</u>
<u>Leshan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>44</u>	<u>6</u>	<u>14</u>	<u>126</u>	<u>78</u>	<u>9</u>	<u>27</u>	<u>150</u>	<u>47</u>	<u>4</u>	<u>23</u>	<u>126</u>
<u>Luzhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>49</u>	<u>7</u>	<u>14</u>	<u>113</u>	<u>80</u>	<u>9</u>	<u>32</u>	<u>145</u>	<u>43</u>	<u>3</u>	<u>14</u>	<u>71</u>
<u>Meishan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>54</u>	<u>5</u>	<u>14</u>	<u>84</u>	<u>79</u>	<u>8</u>	<u>38</u>	<u>136</u>	<u>45</u>	<u>5</u>	<u>15</u>	<u>159</u>
<u>Mianyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>40</u>	<u>3</u>	<u>12</u>	<u>62</u>	<u>63</u>	<u>5</u>	<u>26</u>	<u>98</u>	<u>35</u>	<u>3</u>	<u>7</u>	<u>83</u>
<u>Nanchong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>54</u>	<u>5</u>	<u>20</u>	<u>93</u>	<u>71</u>	<u>4</u>	<u>41</u>	<u>97</u>	<u>51</u>	<u>4</u>	<u>25</u>	<u>113</u>
<u>Panzhihua</u>	<u>Sichuan</u>	<u>NEC</u>	<u>44</u>	<u>3</u>	<u>22</u>	<u>69</u>	<u>53</u>	<u>4</u>	<u>34</u>	<u>81</u>	<u>53</u>	<u>2</u>	<u>22</u>	<u>71</u>
<u>Suining</u>	<u>Sichuan</u>	<u>NEC</u>	<u>53</u>	<u>5</u>	<u>21</u>	<u>92</u>	<u>72</u>	<u>4</u>	<u>39</u>	<u>105</u>	<u>50</u>	<u>4</u>	<u>25</u>	<u>110</u>
<u>Ya'an</u>	<u>Sichuan</u>	<u>NEC</u>	<u>30</u>	<u>3</u>	<u>12</u>	<u>57</u>	<u>35</u>	<u>2</u>	<u>24</u>	<u>58</u>	<u>29</u>	<u>2</u>	<u>14</u>	<u>69</u>
<u>Ziyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>41</u>	<u>3</u>	<u>24</u>	<u>62</u>	<u>60</u>	<u>5</u>	<u>38</u>	<u>91</u>	<u>37</u>	<u>2</u>	<u>23</u>	<u>87</u>
<u>Zigong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>59</u>	<u>6</u>	<u>30</u>	<u>115</u>	<u>85</u>	<u>8</u>	<u>44</u>	<u>128</u>	<u>60</u>	<u>4</u>	<u>33</u>	<u>120</u>
<u>Baoshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>37</u>	<u>2</u>	<u>27</u>	<u>51</u>	<u>37</u>	<u>1</u>	<u>29</u>	<u>46</u>	<u>32</u>	<u>2</u>	<u>7</u>	<u>50</u>
<u>Chuxiong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>26</u>	<u>2</u>	<u>14</u>	<u>41</u>	<u>41</u>	<u>6</u>	<u>11</u>	<u>75</u>	<u>23</u>	<u>2</u>	<u>11</u>	<u>38</u>
<u>Dali</u>	<u>Yunnan</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>4</u>	<u>27</u>	<u>18</u>	<u>2</u>	<u>8</u>	<u>37</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>25</u>
<u>Dehong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>34</u>	<u>2</u>	<u>19</u>	<u>51</u>	<u>30</u>	<u>2</u>	<u>23</u>	<u>46</u>	<u>37</u>	<u>2</u>	<u>20</u>	<u>55</u>

<u>Honghe</u>	<u>Yunnan</u>	<u>NEC</u>	<u>38</u>	<u>5</u>	<u>17</u>	<u>108</u>	<u>59</u>	<u>7</u>	<u>26</u>	<u>99</u>	<u>32</u>	<u>2</u>	<u>16</u>	<u>59</u>
<u>Kunming</u>	<u>Yunnan</u>	<u>NEC</u>	<u>34</u>	<u>3</u>	<u>17</u>	<u>65</u>	<u>48</u>	<u>5</u>	<u>22</u>	<u>76</u>	<u>41</u>	<u>2</u>	<u>23</u>	<u>64</u>
<u>Lijiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>30</u>	<u>1</u>	<u>24</u>	<u>37</u>	<u>33</u>	<u>1</u>	<u>29</u>	<u>43</u>	<u>35</u>	<u>1</u>	<u>28</u>	<u>41</u>
<u>Lincang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>27</u>	<u>1</u>	<u>19</u>	<u>40</u>	<u>27</u>	<u>1</u>	<u>22</u>	<u>38</u>	<u>28</u>	<u>1</u>	<u>23</u>	<u>60</u>
<u>Nujiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>24</u>	<u>1</u>	<u>16</u>	<u>35</u>	<u>27</u>	<u>1</u>	<u>21</u>	<u>38</u>	<u>26</u>	<u>1</u>	<u>20</u>	<u>34</u>
<u>Qujing</u>	<u>Yunnan</u>	<u>NEC</u>	<u>30</u>	<u>2</u>	<u>14</u>	<u>49</u>	<u>44</u>	<u>4</u>	<u>21</u>	<u>67</u>	<u>33</u>	<u>2</u>	<u>15</u>	<u>47</u>
<u>Wenshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>26</u>	<u>3</u>	<u>7</u>	<u>68</u>	<u>45</u>	<u>3</u>	<u>24</u>	<u>64</u>	<u>26</u>	<u>2</u>	<u>12</u>	<u>40</u>
<u>Xishuangbanna</u>	<u>Yunnan</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>10</u>	<u>31</u>	<u>29</u>	<u>2</u>	<u>15</u>	<u>40</u>	<u>40</u>	<u>2</u>	<u>20</u>	<u>57</u>
<u>Tuxi</u>	<u>Yunnan</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>9</u>	<u>40</u>	<u>45</u>	<u>4</u>	<u>16</u>	<u>69</u>	<u>30</u>	<u>2</u>	<u>14</u>	<u>57</u>
<u>Zhaotong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>47</u>	<u>4</u>	<u>23</u>	<u>88</u>	<u>59</u>	<u>6</u>	<u>21</u>	<u>92</u>	<u>33</u>	<u>2</u>	<u>16</u>	<u>57</u>
<u>Anshun</u>	<u>Guizhou</u>	<u>NEC</u>	<u>36</u>	<u>3</u>	<u>24</u>	<u>63</u>	<u>69</u>	<u>8</u>	<u>28</u>	<u>124</u>	<u>38</u>	<u>3</u>	<u>24</u>	<u>76</u>
<u>Bijie</u>	<u>Guizhou</u>	<u>NEC</u>	<u>28</u>	<u>3</u>	<u>8</u>	<u>47</u>	<u>43</u>	<u>4</u>	<u>6</u>	<u>74</u>	<u>24</u>	<u>2</u>	<u>9</u>	<u>52</u>
<u>Guiyang</u>	<u>Guizhou</u>	<u>NEC</u>	<u>34</u>	<u>4</u>	<u>16</u>	<u>79</u>	<u>63</u>	<u>6</u>	<u>13</u>	<u>97</u>	<u>39</u>	<u>3</u>	<u>17</u>	<u>78</u>
<u>Liupanshui</u>	<u>Guizhou</u>	<u>NEC</u>	<u>51</u>	<u>5</u>	<u>24</u>	<u>94</u>	<u>74</u>	<u>7</u>	<u>25</u>	<u>120</u>	<u>39</u>	<u>2</u>	<u>15</u>	<u>59</u>
<u>Tongren</u>	<u>Guizhou</u>	<u>NEC</u>	<u>27</u>	<u>1</u>	<u>25</u>	<u>35</u>	<u>41</u>	<u>2</u>	<u>28</u>	<u>54</u>	<u>40</u>	<u>3</u>	<u>23</u>	<u>75</u>
<u>Zunyi</u>	<u>Guizhou</u>	<u>NEC</u>	<u>50</u>	<u>3</u>	<u>28</u>	<u>74</u>	<u>74</u>	<u>6</u>	<u>35</u>	<u>113</u>	<u>55</u>	<u>4</u>	<u>29</u>	<u>99</u>
<u>Baise</u>	<u>Guangxi</u>	<u>NEC</u>	<u>46</u>	<u>4</u>	<u>17</u>	<u>85</u>	<u>51</u>	<u>5</u>	<u>12</u>	<u>83</u>	<u>53</u>	<u>3</u>	<u>29</u>	<u>90</u>
<u>Beihai</u>	<u>Guangxi</u>	<u>NEC</u>	<u>34</u>	<u>3</u>	<u>16</u>	<u>63</u>	<u>41</u>	<u>8</u>	<u>12</u>	<u>87</u>	<u>36</u>	<u>3</u>	<u>18</u>	<u>79</u>
<u>Chongzuo</u>	<u>Guangxi</u>	<u>NEC</u>	<u>42</u>	<u>4</u>	<u>11</u>	<u>73</u>	<u>53</u>	<u>7</u>	<u>13</u>	<u>96</u>	<u>47</u>	<u>4</u>	<u>23</u>	<u>88</u>
<u>Fangchenggang</u>	<u>Guangxi</u>	<u>NEC</u>	<u>34</u>	<u>3</u>	<u>15</u>	<u>63</u>	<u>44</u>	<u>8</u>	<u>12</u>	<u>100</u>	<u>40</u>	<u>3</u>	<u>22</u>	<u>81</u>
<u>Guigang</u>	<u>Guangxi</u>	<u>NEC</u>	<u>61</u>	<u>4</u>	<u>32</u>	<u>105</u>	<u>60</u>	<u>10</u>	<u>19</u>	<u>122</u>	<u>48</u>	<u>3</u>	<u>17</u>	<u>85</u>
<u>Guilin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>43</u>	<u>3</u>	<u>26</u>	<u>63</u>	<u>58</u>	<u>6</u>	<u>17</u>	<u>86</u>	<u>68</u>	<u>4</u>	<u>33</u>	<u>112</u>
<u>Hechi</u>	<u>Guangxi</u>	<u>NEC</u>	<u>47</u>	<u>4</u>	<u>30</u>	<u>79</u>	<u>61</u>	<u>6</u>	<u>16</u>	<u>98</u>	<u>55</u>	<u>5</u>	<u>17</u>	<u>139</u>
<u>Hezhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>50</u>	<u>3</u>	<u>30</u>	<u>73</u>	<u>51</u>	<u>7</u>	<u>17</u>	<u>85</u>	<u>46</u>	<u>4</u>	<u>7</u>	<u>79</u>
<u>Laibin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>59</u>	<u>4</u>	<u>29</u>	<u>99</u>	<u>67</u>	<u>9</u>	<u>23</u>	<u>116</u>	<u>58</u>	<u>4</u>	<u>16</u>	<u>102</u>
<u>Liuzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>56</u>	<u>4</u>	<u>31</u>	<u>110</u>	<u>70</u>	<u>9</u>	<u>24</u>	<u>112</u>	<u>66</u>	<u>5</u>	<u>28</u>	<u>116</u>

<u>Nanning</u>	<u>Guangxi</u>	<u>NEC</u>	<u>58</u>	<u>8</u>	<u>19</u>	<u>135</u>	<u>69</u>	<u>12</u>	<u>13</u>	<u>151</u>	<u>53</u>	<u>5</u>	<u>18</u>	<u>125</u>
<u>Qinzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>44</u>	<u>4</u>	<u>20</u>	<u>78</u>	<u>49</u>	<u>9</u>	<u>13</u>	<u>111</u>	<u>44</u>	<u>4</u>	<u>24</u>	<u>91</u>
<u>Wuzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>55</u>	<u>4</u>	<u>31</u>	<u>90</u>	<u>49</u>	<u>7</u>	<u>19</u>	<u>83</u>	<u>51</u>	<u>3</u>	<u>20</u>	<u>78</u>
<u>Yulin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>45</u>	<u>4</u>	<u>23</u>	<u>78</u>	<u>45</u>	<u>7</u>	<u>17</u>	<u>91</u>	<u>41</u>	<u>3</u>	<u>12</u>	<u>78</u>
<u>Golog</u>	<u>Qinghai</u>	<u>NEC</u>	<u>77</u>	<u>7</u>	<u>34</u>	<u>133</u>	<u>86</u>	<u>8</u>	<u>53</u>	<u>122</u>	<u>53</u>	<u>5</u>	<u>16</u>	<u>120</u>
<u>Haidong</u>	<u>Qinghai</u>	<u>NEC</u>	<u>37</u>	<u>4</u>	<u>0</u>	<u>75</u>	<u>49</u>	<u>7</u>	<u>20</u>	<u>126</u>	<u>33</u>	<u>2</u>	<u>8</u>	<u>50</u>
<u>Xining</u>	<u>Qinghai</u>	<u>NEC</u>	<u>84</u>	<u>14</u>	<u>36</u>	<u>326</u>	<u>72</u>	<u>4</u>	<u>40</u>	<u>97</u>	<u>67</u>	<u>5</u>	<u>22</u>	<u>114</u>
<u>Ali</u>	<u>Tibet</u>	<u>NEC</u>	<u>25</u>	<u>4</u>	<u>4</u>	<u>60</u>	<u>18</u>	<u>3</u>	<u>8</u>	<u>37</u>	<u>16</u>	<u>1</u>	<u>1</u>	<u>32</u>
<u>Qamdo</u>	<u>Tibet</u>	<u>NEC</u>	<u>37</u>	<u>4</u>	<u>12</u>	<u>98</u>	<u>38</u>	<u>4</u>	<u>18</u>	<u>81</u>	<u>37</u>	<u>3</u>	<u>0</u>	<u>67</u>
<u>Lhasa</u>	<u>Tibet</u>	<u>NEC</u>	<u>44</u>	<u>4</u>	<u>24</u>	<u>99</u>	<u>44</u>	<u>3</u>	<u>25</u>	<u>72</u>	<u>46</u>	<u>3</u>	<u>27</u>	<u>77</u>
<u>Nyingchi</u>	<u>Tibet</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>6</u>	<u>30</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>22</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>25</u>
<u>Naqu</u>	<u>Tibet</u>	<u>NEC</u>	<u>84</u>	<u>11</u>	<u>19</u>	<u>166</u>	<u>110</u>	<u>16</u>	<u>48</u>	<u>241</u>	<u>105</u>	<u>5</u>	<u>68</u>	<u>159</u>
<u>Shigatse</u>	<u>Tibet</u>	<u>NEC</u>	<u>24</u>	<u>2</u>	<u>11</u>	<u>53</u>	<u>23</u>	<u>2</u>	<u>13</u>	<u>41</u>	<u>21</u>	<u>1</u>	<u>8</u>	<u>46</u>
<u>Lhoka</u>	<u>Tibet</u>	<u>NEC</u>	<u>29</u>	<u>3</u>	<u>7</u>	<u>53</u>	<u>22</u>	<u>2</u>	<u>9</u>	<u>43</u>	<u>26</u>	<u>2</u>	<u>12</u>	<u>52</u>

144 ^a EC and NEC denote emission control and non-emission control regions, respectively, of which the latter means regions without implementation
 145 of emission control measures.

146 ^b The pre-Parade Blue, Parade Blue, and post-Parade Blue periods indicate the periods of 1-19 August, 20 August-3 September, and 4-30
 147 September 2015, respectively.

148

149

150

151

152

153

154

155 **Table S4.** Summary statistical of daily average CO concentrations (mg m^{-3}) during the pre Parade Blue and Parade Blue periods in the 291 cities
 156 across China

City	Province	Region	The Pre Parade Blue period				-	The Parade Blue period				Reduction or Increase
			Mean	Standard Error	Min	Max	-	Mean	Standard Error	Min	Max	
Beijing	Municipality	NC	0.90	0.06	0.51	1.42	-	0.56	0.04	0.43	0.94	-38.4
Tianjin	Municipality	NC	0.97	0.05	0.67	1.40	-	1.04	0.08	0.61	1.79	6.9
Baoding	Hebei	NC	1.01	0.07	0.51	1.74	-	0.64	0.05	0.34	1.08	-36.6
Cangzhou	Hebei	NC	0.90	0.06	0.51	1.42	-	0.56	0.04	0.43	0.94	-38.4
Chengde	Hebei	NC	0.78	0.04	0.48	1.04	-	0.49	0.02	0.38	0.75	-37.5
Handan	Hebei	NC	0.99	0.07	0.48	1.51	-	1.51	0.23	0.67	3.55	52.3
Hengshui	Hebei	NC	1.09	0.03	0.85	1.33	-	1.00	0.04	0.74	1.36	-8.3
Langfang	Hebei	NC	1.13	0.08	0.65	1.92	-	0.79	0.10	0.38	1.81	-29.8
Qinhuangdao	Hebei	NC	1.38	0.15	0.38	2.46	-	0.63	0.10	0.36	1.87	-54.1
Shijiazhuang	Hebei	NC	0.66	0.05	0.36	1.17	-	0.57	0.05	0.24	0.95	-13.6
Tangshan	Hebei	NC	1.81	0.21	0.84	4.53	-	1.89	0.23	0.59	3.91	4.4
Xingtai	Hebei	NC	1.12	0.12	0.51	2.40	-	0.93	0.11	0.33	1.70	-16.3
Zhangjiakou	Hebei	NC	0.51	0.02	0.37	0.66	-	0.45	0.02	0.37	0.58	-10.5
Changzhi	Shanxi	NC	1.42	0.08	1.01	2.06	-	1.57	0.04	1.30	1.79	10.7
Datong	Shanxi	NC	0.79	0.01	0.69	0.88	-	0.87	0.02	0.77	1.00	10.6
Jincheng	Shanxi	NC	1.71	0.19	0.59	3.97	-	1.64	0.15	0.78	2.83	-4.1
Jinzhong	Shanxi	NC	0.88	0.05	0.61	1.31	-	0.59	0.03	0.36	0.82	-33.2
Linfen	Shanxi	NC	1.59	0.07	1.13	2.32	-	1.64	0.04	1.34	1.94	3.2

Lvliang	Shanxi	NC	1.73	0.04	1.47	2.13	1.85	0.03	1.63	2.00	6.9
Shuozhou	Shanxi	NC	1.26	0.04	0.84	1.51	1.11	0.02	1.04	1.27	-11.4
Taiyuan	Shanxi	NC	0.85	0.03	0.68	1.15	0.84	0.03	0.71	1.08	-1.1
Xinzhou	Shanxi	NC	1.00	0.03	0.70	1.31	1.84	0.43	0.84	7.71	82.9
Yangquan	Shanxi	NC	0.85	0.03	0.67	1.14	0.63	0.02	0.52	0.85	-25.7
Yuncheng	Shanxi	NC	2.11	0.05	1.77	2.49	2.30	0.15	1.02	3.17	9.2
Binzhou	Shandong	NC	1.71	0.08	1.17	2.32	1.45	0.07	1.12	2.24	-15.3
Dezhou	Shandong	NC	1.92	0.05	1.62	2.34	1.66	0.06	1.32	2.08	-13.6
Dongying	Shandong	NC	1.00	0.07	0.61	1.50	0.87	0.05	0.60	1.12	-13.0
Jinan	Shandong	NC	0.92	0.05	0.57	1.33	0.97	0.04	0.76	1.25	4.7
Jining	Shandong	NC	0.99	0.04	0.72	1.26	0.92	0.04	0.70	1.19	-6.4
Laiwu	Shandong	NC	1.28	0.06	0.91	1.60	1.47	0.06	1.09	1.85	-15.0
Liaocheng	Shandong	NC	1.39	0.04	1.16	1.72	1.18	0.05	0.86	1.50	-14.9
Linyi	Shandong	NC	1.09	0.06	0.75	1.85	1.17	0.05	0.86	1.49	7.5
Qingdao	Shandong	NC	0.62	0.04	0.33	0.99	0.63	0.03	0.48	0.91	0.4
Rizhao	Shandong	NC	0.81	0.05	0.49	1.37	0.95	0.04	0.72	1.26	-17.3
Tai'an	Shandong	NC	1.45	0.08	1.13	2.56	1.24	0.06	0.86	1.62	-14.0
Weihai	Shandong	NC	0.68	0.05	0.39	1.37	0.54	0.02	0.37	0.67	-20.4
Weifang	Shandong	NC	0.71	0.06	0.34	1.19	0.87	0.07	0.58	1.35	22.9
Yantai	Shandong	NC	0.70	0.05	0.41	1.28	0.49	0.02	0.34	0.62	-30.1
Zaozhuang	Shandong	NC	0.71	0.05	0.37	1.00	0.86	0.02	0.75	1.04	21.4
Zibo	Shandong	NC	1.91	0.09	1.41	2.63	2.11	0.10	1.53	2.78	10.3
Alxa League	Inner Mongolia	NC	0.71	0.04	0.43	1.05	0.75	0.04	0.57	1.07	5.8
Bayannur	Inner Mongolia	NC	0.47	0.06	0.19	1.18	0.36	0.02	0.27	0.54	-22.6
Baotou	Inner Mongolia	NC	1.01	0.06	0.60	1.54	0.98	0.06	0.60	1.39	-3.1
Chifeng	Inner Mongolia	NC	0.86	0.09	0.35	1.51	0.54	0.03	0.39	0.78	-37.5

Ordos	Inner Mongolia	NC	0.60	0.03	0.40	0.88	0.61	0.01	0.48	0.72	+2
Hohhot	Inner Mongolia	NC	0.63	0.03	0.46	0.98	0.63	0.02	0.49	0.74	-0.2
Hulun Buir	Inner Mongolia	NC	0.31	0.03	0.15	0.58	0.21	0.03	0.05	0.42	-34.0
Tongliao	Inner Mongolia	NC	0.75	0.05	0.52	1.21	0.51	0.01	0.40	0.65	-32.3
Wuhai	Inner Mongolia	NC	0.70	0.06	0.31	1.20	0.64	0.06	0.37	1.04	-9.4
Hinggan League	Inner Mongolia	NC	0.69	0.04	0.51	1.31	0.49	0.02	0.40	0.66	-29.9
Anyang	Henan	NC	1.41	0.08	0.75	2.10	1.63	0.10	1.24	2.44	16.2
Hebi	Henan	NC	0.99	0.06	0.66	1.54	1.18	0.14	0.52	2.25	19.2
Jiaozuo	Henan	NC	1.50	0.05	1.14	1.79	1.38	0.09	0.90	2.00	-7.9
Kaifeng	Henan	NC	1.14	0.05	0.77	1.58	1.30	0.04	1.02	1.76	13.9
Luoyang	Henan	NC	1.67	0.06	1.19	2.25	1.36	0.04	1.12	1.57	-18.7
Luohe	Henan	NC	0.66	0.04	0.46	1.00	0.74	0.03	0.53	1.00	12.1
Nanyang	Henan	NC	0.69	0.06	0.31	1.22	0.70	0.02	0.57	0.90	0.8
Pingdingshan	Henan	NC	0.90	0.04	0.56	1.10	0.87	0.04	0.64	1.13	-3.6
Sanmenxia	Henan	NC	1.05	0.03	0.76	1.27	1.13	0.02	0.97	1.28	7.8
Shangqiu	Henan	NC	0.59	0.05	0.28	1.14	0.64	0.03	0.47	0.88	9.0
Xinyang	Henan	NC	0.86	0.03	0.54	1.04	0.76	0.02	0.59	0.89	-11.5
Zhengzhou	Henan	NC	1.05	0.04	0.77	1.43	1.12	0.04	0.87	1.42	6.5
Zhoukou	Henan	NC	1.02	0.05	0.77	1.47	1.35	0.04	1.06	1.55	33.1
Zhumadian	Henan	NC	0.50	0.04	0.26	0.87	0.65	0.03	0.46	0.83	29.1
Anshan	Liaoning	NE	1.43	0.06	0.97	1.99	1.32	0.06	0.97	1.67	-7.8
Benxi	Liaoning	NE	1.10	0.04	0.84	1.42	1.01	0.07	0.60	1.72	-8.4
Chaoyang	Liaoning	NE	1.71	0.06	1.43	2.31	1.52	0.01	1.42	1.62	-11.0
Dalian	Liaoning	NE	0.78	0.04	0.46	1.06	0.72	0.04	0.51	1.16	-7.2
Dandong	Liaoning	NE	7.13	1.59	0.97	24.00	1.26	0.03	1.06	1.40	-82.3
Fushun	Liaoning	NE	1.05	0.04	0.77	1.46	0.94	0.03	0.71	1.15	-10.6

Fuxin	Liaoning	NE	0.86	0.08	0.45	1.51	0.55	0.03	0.44	0.88	-36.7
Huludao	Liaoning	NE	1.26	0.11	0.55	1.89	0.90	0.07	0.60	1.80	-28.9
Jinzhou	Liaoning	NE	1.17	0.09	0.68	1.95	0.65	0.04	0.47	1.08	-44.8
Liaoyang	Liaoning	NE	1.07	0.04	0.75	1.44	1.14	0.05	0.89	1.59	6.7
Panjin	Liaoning	NE	0.89	0.06	0.50	1.47	0.68	0.04	0.54	1.18	-23.6
Shenyang	Liaoning	NE	0.88	0.05	0.55	1.31	0.58	0.03	0.38	0.82	-34.3
Tieling	Liaoning	NE	0.72	0.06	0.38	1.13	0.71	0.03	0.55	0.97	1.7
Wafangdian	Liaoning	NE	0.44	0.03	0.22	0.66	0.39	0.03	0.27	0.60	-11.3
Yingkou	Liaoning	NE	0.79	0.05	0.38	1.08	0.71	0.05	0.41	1.02	-10.5
Baicheng	Jilin	NE	0.39	0.02	0.26	0.56	0.39	0.03	0.20	0.62	1.1
Baishan	Jilin	NE	0.83	0.07	0.54	1.50	0.72	0.03	0.51	0.89	-13.4
Changchun	Jilin	NE	0.68	0.03	0.52	1.08	0.64	0.04	0.48	0.91	-5.8
Jilin	Jilin	NE	0.63	0.02	0.49	0.79	0.64	0.03	0.45	0.76	0.9
Liaoyuan	Jilin	NE	0.93	0.04	0.55	1.26	0.87	0.07	0.63	1.63	-6.7
Siping	Jilin	NE	0.74	0.08	0.16	1.65	0.40	0.05	0.11	0.84	-45.5
Songyuan	Jilin	NE	0.98	0.10	0.36	1.78	0.55	0.03	0.39	0.70	-43.1
Daqing	Heilongjiang	NE	0.55	0.02	0.40	0.66	0.40	0.02	0.27	0.58	-27.0
Daxinganling	Heilongjiang	NE	0.68	0.05	0.47	1.30	0.77	0.03	0.64	1.19	-14.3
Harbin	Heilongjiang	NE	0.86	0.02	0.70	1.05	0.70	0.04	0.47	0.95	-18.3
Hegang	Heilongjiang	NE	1.15	0.11	0.49	2.09	0.59	0.03	0.39	0.79	-49.0
Heihe	Heilongjiang	NE	0.40	0.02	0.32	0.68	0.34	0.02	0.20	0.49	-16.4
Jixi	Heilongjiang	NE	0.51	0.02	0.39	0.73	0.52	0.04	0.25	0.86	2.6
Jiamusi	Heilongjiang	NE	0.81	0.02	0.70	0.96	0.67	0.03	0.53	0.93	-17.9
Mudanjiang	Heilongjiang	NE	0.45	0.01	0.36	0.54	0.42	0.02	0.30	0.55	-7.4
Qitaihe	Heilongjiang	NE	0.41	0.01	0.28	0.56	0.42	0.02	0.27	0.60	3.5
Qiqihar	Heilongjiang	NE	0.61	0.03	0.37	0.92	0.44	0.02	0.35	0.64	-28.4

Shuangyashan	Heilongjiang	NE	0.72	0.05	0.36	1.34	0.54	0.06	0.28	1.00	-24.5
Suihua	Heilongjiang	NE	0.36	0.03	0.18	0.60	0.32	0.02	0.24	0.46	-11.7
Ankang	Shaanxi	NW	0.56	0.02	0.39	0.77	0.63	0.01	0.57	0.75	13.5
Baoji	Shaanxi	NW	0.89	0.03	0.63	1.14	0.90	0.04	0.65	1.12	1.0
Hanzhong	Shaanxi	NW	1.10	0.04	0.78	1.43	1.53	0.03	1.30	1.72	38.3
Shangluo	Shaanxi	NW	1.06	0.04	0.80	1.43	1.51	0.06	1.17	1.93	41.7
Tongchuan	Shaanxi	NW	0.74	0.04	0.44	1.05	0.71	0.02	0.55	0.82	4.1
Weinan	Shaanxi	NW	0.61	0.02	0.49	0.73	0.70	0.03	0.53	0.86	14.9
Xi'an	Shaanxi	NW	1.00	0.02	0.83	1.19	1.16	0.03	0.96	1.45	16.6
Xianyang	Shaanxi	NW	0.84	0.03	0.56	0.99	0.89	0.03	0.60	1.08	5.5
Yan'an	Shaanxi	NW	1.15	0.06	0.69	1.48	1.05	0.03	0.89	1.37	9.3
Yulin	Shaanxi	NW	0.94	0.07	0.40	1.31	0.68	0.03	0.49	0.90	27.3
Baiyin	Gansu	NW	0.76	0.04	0.48	1.06	0.71	0.02	0.59	0.83	-6.7
Dingxi	Gansu	NW	0.53	0.04	0.30	1.02	0.43	0.03	0.30	0.64	17.9
Gannan	Gansu	NW	0.64	0.05	0.10	1.02	0.62	0.04	0.34	0.91	2.4
Jiayuguan	Gansu	NW	0.67	0.04	0.37	1.01	0.60	0.03	0.44	0.88	-10.3
Jiuquan	Gansu	NW	0.55	0.03	0.23	0.80	0.56	0.04	0.31	0.94	2.4
Lanzhou	Gansu	NW	0.89	0.04	0.56	1.18	1.05	0.04	0.84	1.26	18.2
Linxia	Gansu	NW	0.76	0.01	0.67	0.92	0.82	0.03	0.71	0.99	7.6
Pingliang	Gansu	NW	0.71	0.06	0.36	1.64	0.80	0.03	0.65	0.97	12.4
Qingyang	Gansu	NW	0.78	0.02	0.65	0.97	0.87	0.03	0.75	1.07	11.5
Tianshui	Gansu	NW	0.46	0.01	0.38	0.62	0.51	0.02	0.37	0.69	11.2
Wuwei	Gansu	NW	2.68	0.04	2.37	3.02	2.56	0.11	2.16	3.22	4.6
Zhangye	Gansu	NW	0.42	0.03	0.28	0.82	0.41	0.02	0.29	0.51	4.4
Guyuan	Ningxia	NW	0.60	0.02	0.48	0.81	0.59	0.04	0.39	0.85	2.7
Shizuishan	Ningxia	NW	0.52	0.04	0.26	1.02	0.59	0.04	0.38	0.85	14.9

Wuzhong	Ningxia	NW	0.93	0.05	0.73	1.59	0.89	0.02	0.73	1.07	4.1
Yinchuan	Ningxia	NW	0.83	0.04	0.52	1.12	0.87	0.03	0.69	1.10	4.1
Zhongwei	Ningxia	NW	1.02	0.01	0.95	1.19	1.07	0.04	0.84	1.34	4.3
Aksu	Sinkiang	NW	0.80	0.10	0.37	1.76	1.32	0.14	0.36	2.35	64.6
Hami	Sinkiang	NW	0.97	0.06	0.58	1.42	0.71	0.05	0.40	1.02	27.3
Hotan	Sinkiang	NW	0.60	0.05	0.24	1.08	0.99	0.06	0.65	1.40	63.5
Kashgar	Sinkiang	NW	0.57	0.03	0.30	0.87	0.55	0.04	0.35	0.85	4.2
Karamay	Sinkiang	NW	1.12	0.03	0.88	1.36	1.21	0.03	1.06	1.36	8.5
Kizilsu	Sinkiang	NW	1.06	0.06	0.61	1.56	1.23	0.12	0.59	1.79	16.0
Shihezi	Sinkiang	NW	0.67	0.05	0.44	1.27	0.84	0.04	0.61	1.11	25.2
Urumchi	Sinkiang	NW	0.74	0.03	0.51	1.03	0.66	0.03	0.47	0.93	11.5
Wujiaqu	Sinkiang	NW	0.63	0.04	0.29	0.97	0.52	0.06	0.20	0.86	17.8
Yili	Sinkiang	NW	1.16	0.03	0.87	1.39	1.34	0.06	0.89	1.74	15.7
Ezhou	Hubei	SE	1.03	0.06	0.77	1.79	1.10	0.03	0.95	1.29	6.8
Huanggang	Hubei	SE	0.87	0.05	0.36	1.18	1.05	0.03	0.75	1.15	21.2
Jingmen	Hubei	SE	0.65	0.04	0.44	1.07	0.82	0.02	0.65	0.96	27.5
Shiyan	Hubei	SE	0.94	0.04	0.65	1.39	0.86	0.05	0.53	1.30	8.6
Wuhan	Hubei	SE	0.66	0.05	0.42	1.07	0.93	0.05	0.54	1.16	40.4
Xianning	Hubei	SE	1.10	0.05	0.74	1.48	1.44	0.03	1.11	1.63	30.6
Xiangyang	Hubei	SE	0.75	0.04	0.60	1.14	0.87	0.03	0.72	1.13	15.4
Xiaogan	Hubei	SE	1.40	0.06	1.11	1.92	1.72	0.05	1.40	2.14	23.2
Yichang	Hubei	SE	0.82	0.04	0.54	1.13	0.97	0.02	0.86	1.17	17.4
Anqing	Anhui	SE	0.45	0.05	0.16	0.78	0.62	0.03	0.43	0.81	37.8
Bengbu	Anhui	SE	0.65	0.04	0.30	0.92	0.85	0.03	0.69	1.10	31.1
Bozhou	Anhui	SE	0.48	0.04	0.25	0.78	0.88	0.04	0.60	1.15	84.4
Chuzhou	Anhui	SE	0.54	0.06	0.28	1.00	0.74	0.04	0.48	0.96	37.5

Fuyang	Anhui	SE	0.53	0.07	0.18	1.13	0.72	0.04	0.50	1.02	37.0
Hefei	Anhui	SE	0.75	0.04	0.45	1.06	0.85	0.04	0.66	1.15	12.9
Huabei	Anhui	SE	0.85	0.05	0.57	1.24	1.20	0.03	1.01	1.44	39.9
Huainan	Anhui	SE	0.64	0.06	0.24	1.07	0.89	0.03	0.67	1.16	37.8
Huangshan	Anhui	SE	0.12	0.01	0.07	0.18	0.17	0.02	0.11	0.36	36.9
Lu'an	Anhui	SE	0.68	0.04	0.36	1.07	0.56	0.03	0.39	0.76	17.5
Maanshan	Anhui	SE	1.10	0.03	0.84	1.36	1.34	0.05	1.02	1.58	21.1
Suzhou	Anhui	SE	0.57	0.07	0.23	1.14	0.97	0.06	0.71	1.41	69.1
Tongling	Anhui	SE	0.82	0.05	0.53	1.23	1.05	0.06	0.76	1.53	28.1
Wuhu	Anhui	SE	0.65	0.05	0.33	1.00	0.81	0.04	0.63	1.19	24.6
Changzhou	Jiangsu	SE	0.80	0.03	0.59	1.15	0.85	0.06	0.43	1.18	6.5
Huaian	Jiangsu	SE	0.69	0.05	0.32	1.07	0.89	0.06	0.46	1.29	30.5
Lianyungang	Jiangsu	SE	0.62	0.04	0.30	0.96	0.87	0.05	0.52	1.24	41.9
Nanjing	Jiangsu	SE	0.69	0.04	0.40	0.98	0.84	0.05	0.50	1.19	20.6
Nantong	Jiangsu	SE	0.54	0.05	0.32	1.18	0.72	0.06	0.43	1.37	33.0
Suzhou	Jiangsu	SE	0.69	0.03	0.43	0.85	0.94	0.05	0.60	1.32	35.6
Suqian	Jiangsu	SE	0.64	0.04	0.33	0.97	1.01	0.05	0.68	1.46	58.3
Taizhou	Jiangsu	SE	0.84	0.05	0.52	1.30	0.92	0.04	0.66	1.16	9.3
Wuxi	Jiangsu	SE	0.84	0.03	0.66	1.32	1.18	0.05	0.96	1.65	40.5
Xuzhou	Jiangsu	SE	0.98	0.05	0.66	1.33	1.31	0.06	1.00	1.75	33.4
Yanchen	Jiangsu	SE	0.59	0.04	0.33	1.06	0.68	0.04	0.44	0.93	15.2
Yangzhou	Jiangsu	SE	0.62	0.05	0.26	1.01	0.60	0.03	0.39	0.74	2.8
Zhenjiang	Jiangsu	SE	0.74	0.03	0.47	1.05	0.80	0.04	0.52	1.00	9.1
Shanghai	Municipality	SE	0.65	0.02	0.50	0.76	0.89	0.05	0.67	1.26	36.9
Hangzhou	Zhejiang	SE	0.68	0.03	0.44	0.87	0.90	0.03	0.68	1.16	31.0
Huzhou	Zhejiang	SE	0.63	0.03	0.43	0.86	0.87	0.03	0.69	1.05	38.0

Jiaxing	Zhejiang	SE	0.56	0.02	0.39	0.74	0.76	0.04	0.47	1.02	36.7
Jinhua	Zhejiang	SE	0.67	0.03	0.47	0.85	0.85	0.07	0.63	1.45	26.7
Lishui	Zhejiang	SE	0.52	0.02	0.39	0.66	0.58	0.02	0.44	0.71	11.6
Ningbo	Zhejiang	SE	0.71	0.02	0.58	0.88	0.87	0.04	0.67	1.14	22.2
Quzhou	Zhejiang	SE	0.67	0.03	0.47	0.85	0.87	0.06	0.63	1.45	29.5
Shaoxing	Zhejiang	SE	0.64	0.04	0.42	0.92	0.86	0.05	0.54	1.23	34.3
Taizhou	Zhejiang	SE	0.61	0.02	0.41	0.82	0.70	0.04	0.46	0.88	14.9
Wenjiang	Zhejiang	SE	0.71	0.03	0.52	0.92	0.72	0.03	0.53	0.92	1.4
Zhoushan	Zhejiang	SE	0.50	0.03	0.34	0.82	0.64	0.04	0.42	0.93	29.3
Fuzhou	Jiangxi	SE	0.75	0.02	0.65	0.88	0.83	0.03	0.59	0.96	10.5
Ganzhou	Jiangxi	SE	1.22	0.02	1.06	1.32	1.29	0.04	1.09	1.53	5.6
Jian	Jiangxi	SE	0.69	0.02	0.52	0.82	0.89	0.02	0.75	1.05	28.3
Jingdezhen	Jiangxi	SE	0.59	0.02	0.41	0.75	0.75	0.04	0.52	1.09	27.7
Jiujiang	Jiangxi	SE	0.61	0.02	0.40	0.82	0.69	0.03	0.48	0.86	11.9
Nanchang	Jiangxi	SE	0.81	0.02	0.69	1.00	0.89	0.04	0.67	1.06	9.5
Pingxiang	Jiangxi	SE	0.60	0.04	0.40	1.10	0.95	0.07	0.58	1.76	58.2
Shangrao	Jiangxi	SE	0.49	0.04	0.31	0.74	0.48	0.04	0.33	0.81	3.1
Xinyu	Jiangxi	SE	1.38	0.05	1.01	1.96	1.36	0.05	1.07	1.67	1.3
Yichun	Jiangxi	SE	0.87	0.03	0.62	1.08	0.94	0.03	0.67	1.13	7.5
Yingtan	Jiangxi	SE	0.55	0.02	0.41	0.73	0.70	0.02	0.60	0.81	26.9
Changsha	Hunan	SE	0.64	0.02	0.53	0.78	0.82	0.03	0.63	1.02	27.0
Changde	Hunan	SE	1.15	0.05	0.60	1.52	1.16	0.04	0.87	1.42	0.8
Chenzhou	Hunan	SE	0.82	0.04	0.54	1.18	1.10	0.05	0.86	1.44	34.9
Huaihua	Hunan	SE	1.33	0.03	1.08	1.54	1.36	0.03	1.05	1.54	2.2
Loudi	Hunan	SE	1.20	0.08	0.65	1.75	1.76	0.05	1.49	2.09	47.4
Xiangtan	Hunan	SE	1.01	0.03	0.72	1.18	1.06	0.04	0.80	1.31	4.7

Yiyang	Hunan	SE	0.53	0.05	0.24	0.90	0.85	0.03	0.65	1.06	58.9
Yongzhou	Hunan	SE	0.46	0.02	0.33	0.62	0.63	0.03	0.37	0.74	37.2
Zhangjiajie	Hunan	SE	1.23	0.05	0.76	1.58	1.58	0.06	1.27	2.02	28.9
Zhuzhou	Hunan	SE	0.60	0.03	0.45	0.79	0.85	0.04	0.62	1.10	42.6
Dongguan	Guangdong	SE	0.68	0.02	0.55	0.95	0.82	0.01	0.72	0.94	21.5
Foshan	Guangdong	SE	0.75	0.02	0.63	0.96	0.86	0.02	0.72	1.00	15.7
Guangzhou	Guangdong	SE	0.83	0.02	0.62	0.98	0.90	0.02	0.75	0.98	8.8
Heyuan	Guangdong	SE	0.77	0.02	0.56	0.94	0.83	0.01	0.77	0.93	7.5
Huizhou	Guangdong	SE	0.72	0.02	0.60	0.86	0.78	0.03	0.62	0.97	8.2
Jiangmen	Guangdong	SE	0.78	0.02	0.62	0.98	0.99	0.04	0.80	1.26	27.5
Maoming	Guangdong	SE	0.79	0.02	0.67	0.96	0.93	0.04	0.73	1.18	16.7
Meizhou	Guangdong	SE	0.72	0.02	0.58	0.91	0.88	0.01	0.79	0.97	22.3
Qingyuan	Guangdong	SE	0.87	0.03	0.60	1.11	0.93	0.02	0.83	1.07	7.5
Shantou	Guangdong	SE	0.85	0.03	0.67	1.15	0.86	0.02	0.74	1.09	1.0
Shaoguan	Guangdong	SE	0.89	0.02	0.73	1.00	0.81	0.03	0.61	0.97	8.9
Shenzhen	Guangdong	SE	0.83	0.02	0.69	0.95	0.82	0.03	0.67	1.01	1.3
Zhujiang	Guangdong	SE	0.74	0.03	0.44	0.90	0.70	0.02	0.55	0.84	5.6
Zhaoqing	Guangdong	SE	0.62	0.02	0.50	0.81	0.84	0.04	0.55	1.11	34.4
Zhongshan	Guangdong	SE	0.88	0.03	0.59	1.11	1.00	0.07	0.59	1.28	14.2
Zhuhai	Guangdong	SE	0.72	0.02	0.53	0.87	0.83	0.04	0.60	1.00	16.1
Fuzhou	Fujian	SE	0.57	0.02	0.43	0.80	0.62	0.03	0.41	0.79	9.3
Longyan	Fujian	SE	0.68	0.02	0.47	0.84	0.71	0.03	0.54	0.88	4.8
Nanping	Fujian	SE	0.78	0.02	0.60	0.92	0.77	0.01	0.67	0.84	1.6
Ningde	Fujian	SE	0.65	0.04	0.27	1.08	0.60	0.05	0.34	0.85	8.2
Putian	Fujian	SE	0.63	0.03	0.46	0.97	0.59	0.03	0.38	0.75	7.6
Quanzhou	Fujian	SE	0.55	0.02	0.36	0.70	0.59	0.02	0.44	0.72	6.8

Sanming	Fujian	SE	1.17	0.05	0.82	1.46	1.04	0.06	0.74	1.41	-11.2
Xiamen	Fujian	SE	0.44	0.02	0.31	0.64	0.56	0.03	0.33	0.72	26.7
Zhangzhou	Fujian	SE	0.55	0.02	0.37	0.71	0.57	0.02	0.45	0.64	3.7
Haikou	Hainan	SE	0.52	0.02	0.35	0.72	0.63	0.03	0.48	0.79	21.4
Sanya	Hainan	SE	0.57	0.02	0.44	0.75	0.64	0.04	0.46	0.89	13.8
Chongqing	Municipality	SW	0.84	0.04	0.57	1.12	1.11	0.03	0.86	1.28	31.1
Bazhong	Sichuan	SW	0.67	0.02	0.55	0.79	0.82	0.02	0.64	0.93	21.5
Chengdu	Sichuan	SW	0.84	0.03	0.52	1.06	1.07	0.05	0.79	1.44	27.2
Dazhou	Sichuan	SW	0.66	0.05	0.40	1.06	0.96	0.05	0.60	1.23	44.6
Deyang	Sichuan	SW	0.90	0.03	0.67	1.08	1.24	0.04	0.94	1.51	38.0
Guangyuan	Sichuan	SW	0.26	0.01	0.18	0.37	0.37	0.02	0.26	0.45	45.7
Leshan	Sichuan	SW	0.81	0.03	0.64	1.03	1.03	0.06	0.70	1.45	27.2
Luzhou	Sichuan	SW	0.52	0.03	0.32	0.82	0.66	0.03	0.42	0.90	27.3
Meishan	Sichuan	SW	0.46	0.02	0.29	0.63	0.67	0.03	0.43	0.90	45.7
Mianyang	Sichuan	SW	0.80	0.03	0.60	1.00	0.90	0.03	0.73	1.12	11.5
Nanchong	Sichuan	SW	0.64	0.03	0.48	0.92	0.73	0.02	0.59	0.88	14.0
Panzhihua	Sichuan	SW	1.43	0.05	1.12	1.83	1.47	0.06	1.13	1.93	2.4
Suining	Sichuan	SW	0.82	0.02	0.69	1.02	0.78	0.02	0.69	0.91	4.4
Ya'an	Sichuan	SW	0.65	0.03	0.50	0.98	0.74	0.02	0.56	0.89	13.7
Ziyang	Sichuan	SW	0.50	0.02	0.38	0.72	0.62	0.02	0.44	0.75	24.8
Zigong	Sichuan	SW	0.51	0.04	0.29	0.85	0.78	0.04	0.52	1.07	54.2
Baoshan	Yunnan	SW	0.71	0.02	0.59	0.94	0.88	0.04	0.67	1.16	24.5
Chuxiong	Yunnan	SW	0.70	0.03	0.53	0.94	0.83	0.04	0.57	1.13	17.7
Dali	Yunnan	SW	0.41	0.02	0.27	0.58	0.45	0.04	0.25	0.79	10.9
Dehong	Yunnan	SW	0.49	0.02	0.35	0.67	0.63	0.02	0.53	0.75	28.4
Honghe	Yunnan	SW	0.46	0.04	0.28	0.95	0.54	0.05	0.31	0.86	18.0

Kunming	Yunnan	SW	0.77	0.04	0.47	1.05	0.85	0.03	0.64	1.04	10.9	
Lijiang	Yunnan	SW	0.98	0.03	0.71	1.17	0.84	0.02	0.72	0.97	14.7	
Lincang	Yunnan	SW	0.30	0.04	0.11	0.91	0.49	0.02	0.36	0.63	61.4	
Nujiang	Yunnan	SW	0.62	0.04	0.30	0.95	0.54	0.02	0.43	0.66	14.0	
Qujing	Yunnan	SW	0.76	0.03	0.56	1.10	1.06	0.04	0.81	1.38	39.1	
Wenshan	Yunnan	SW	0.57	0.02	0.40	0.82	0.58	0.02	0.49	0.73	1.4	
Xishuangbanna	Yunnan	SW	0.59	0.02	0.47	0.82	0.64	0.02	0.54	0.79	8.7	
Tuxi	Yunnan	SW	0.97	0.07	0.68	1.97	1.29	0.06	0.99	1.70	32.4	
Zhaotong	Yunnan	SW	0.71	0.04	0.40	1.08	0.98	0.04	0.74	1.23	37.9	
Anshun	Guizhou	SW	0.31	0.02	0.20	0.47	0.49	0.03	0.37	0.70	60.7	
Bijie	Guizhou	SW	0.80	0.05	0.45	1.21	1.10	0.05	0.77	1.42	38.4	
Guiyang	Guizhou	SW	0.53	0.02	0.39	0.73	0.71	0.02	0.63	0.89	34.9	
Liupanshui	Guizhou	SW	0.46	0.06	0.14	1.30	0.61	0.04	0.41	0.98	33.8	
Tongren	Guizhou	SW	0.48	0.02	0.33	0.68	0.67	0.01	0.60	0.72	37.4	
Zunyi	Guizhou	SW	0.63	0.02	0.50	0.80	0.80	0.03	0.56	1.00	25.9	
Baise	Guangxi	SW	1.00	0.03	0.75	1.20	0.48	0.03	0.31	0.78	51.9	
Beihai	Guangxi	SW	0.81	0.03	0.63	0.99	1.08	0.03	0.87	1.25	34.3	
Chongzuo	Guangxi	SW	0.76	0.02	0.62	0.93	0.87	0.03	0.68	1.04	14.6	
Fangchenggang	Guangxi	SW	0.65	0.01	0.60	0.72	0.85	0.03	0.65	1.03	29.4	
Guigang	Guangxi	SW	0.79	0.02	0.65	1.03	0.92	0.04	0.66	1.21	16.5	
Guilin	Guangxi	SW	0.77	0.01	0.68	0.85	0.83	0.02	0.69	0.99	7.6	
Hechi	Guangxi	SW	1.10	0.05	0.76	1.60	1.09	0.06	0.71	1.50	0.7	
Hezhou	Guangxi	SW	1.06	0.09	0.60	2.33	0.84	0.04	0.43	1.09	20.8	
Laibin	Guangxi	SW	0.82	0.02	0.65	0.98	0.94	0.04	0.76	1.17	14.8	
Liuzhou	Guangxi	SW	0.91	0.02	0.77	1.11	0.98	0.03	0.75	1.15	7.4	
Nanning	Guangxi	SW	0.77	0.02	0.58	0.96	0.89	0.03	0.71	1.02	15.4	

Qinzhou	Guangxi	SW	1.16	0.04	0.87	1.57	1.11	0.03	0.90	1.39	4.7
Wuzhou	Guangxi	SW	0.75	0.02	0.66	0.94	0.88	0.06	0.63	1.33	16.9
Yulin	Guangxi	SW	0.90	0.04	0.61	1.23	0.76	0.02	0.57	0.89	-15.8
Golog	Qinghai	TP	0.55	0.01	0.42	0.63	0.64	0.03	0.47	0.92	15.3
Haidong	Qinghai	TP	0.82	0.04	0.56	1.22	0.90	0.04	0.66	1.15	9.4
Xining	Qinghai	TP	1.08	0.04	0.82	1.54	1.09	0.05	0.80	1.46	1.4
Ali	Tibet	TP	0.35	0.01	0.23	0.42	0.20	0.03	0.13	0.63	41.5
Qamdo	Tibet	TP	0.80	0.03	0.53	1.03	1.13	0.03	0.92	1.31	41.5
Lhasa	Tibet	TP	0.57	0.01	0.46	0.68	0.50	0.02	0.41	0.61	-12.6
Nyingchi	Tibet	TP	0.41	0.01	0.34	0.50	0.44	0.01	0.39	0.53	7.4
Naqu	Tibet	TP	0.96	0.04	0.60	1.22	1.41	0.02	1.30	1.56	46.9
Shigatse	Tibet	TP	0.40	0.02	0.27	0.55	0.34	0.01	0.29	0.41	-14.3
Lhoka	Tibet	TP	0.48	0.02	0.31	0.66	-0.64	0.02	0.49	0.76	32.0

^aNC, NE, NW, SE, SW, TP represent north China, northeast China, northwest China, southeast China, southwest China, and the Tibetan Plateau, respectively.

^bNegative values with red color mean significant ($p < 0.05$ or 0.01) reduction, and positive values mean increase.

Table S4. Summary of daily average NO_2 concentrations ($\mu\text{g m}^{-3}$) during the pre-Parade Blue, Parade Blue and post-Parade Blue periods in the 291 cities across China

City	Province	Region ^a	Pre-Parade Blue period ^b				Parade Blue period ^b				Post-Parade Blue period ^b			
			Mean	SE	Min	Max	Mean	SE	Min	Max	Mean	SE	Min	Max
Beijing	Municipality	EC	34	1	26	44	21	1	17	24	42	2	20	63
Tianjing	Municipality	EC	26	2	14	45	21	2	12	33	25	2	11	41
Baoding	Hebei	EC	34	2	23	51	25	2	15	40	44	3	16	73

带格式的：下标

带格式表格

<u>Cangzhou</u>	<u>Hebei</u>	<u>EC</u>	<u>34</u>	<u>1</u>	<u>26</u>	<u>44</u>	<u>21</u>	<u>1</u>	<u>17</u>	<u>24</u>	<u>41</u>	<u>3</u>	<u>21</u>	<u>87</u>
<u>Chengde</u>	<u>Hebei</u>	<u>EC</u>	<u>27</u>	<u>1</u>	<u>21</u>	<u>35</u>	<u>21</u>	<u>1</u>	<u>14</u>	<u>26</u>	<u>28</u>	<u>1</u>	<u>16</u>	<u>41</u>
<u>Handan</u>	<u>Hebei</u>	<u>EC</u>	<u>38</u>	<u>3</u>	<u>22</u>	<u>70</u>	<u>36</u>	<u>3</u>	<u>20</u>	<u>54</u>	<u>45</u>	<u>3</u>	<u>15</u>	<u>76</u>
<u>Hengshui</u>	<u>Hebei</u>	<u>EC</u>	<u>29</u>	<u>2</u>	<u>18</u>	<u>59</u>	<u>27</u>	<u>1</u>	<u>18</u>	<u>33</u>	<u>44</u>	<u>3</u>	<u>20</u>	<u>77</u>
<u>Langfang</u>	<u>Hebei</u>	<u>EC</u>	<u>42</u>	<u>1</u>	<u>30</u>	<u>55</u>	<u>36</u>	<u>2</u>	<u>21</u>	<u>55</u>	<u>54</u>	<u>3</u>	<u>26</u>	<u>89</u>
<u>Qinhuangdao</u>	<u>Hebei</u>	<u>EC</u>	<u>41</u>	<u>2</u>	<u>17</u>	<u>53</u>	<u>35</u>	<u>3</u>	<u>18</u>	<u>52</u>	<u>35</u>	<u>2</u>	<u>19</u>	<u>58</u>
<u>Shijiazhuang</u>	<u>Hebei</u>	<u>EC</u>	<u>29</u>	<u>2</u>	<u>15</u>	<u>56</u>	<u>22</u>	<u>3</u>	<u>7</u>	<u>37</u>	<u>48</u>	<u>4</u>	<u>9</u>	<u>79</u>
<u>Tangshan</u>	<u>Hebei</u>	<u>EC</u>	<u>44</u>	<u>2</u>	<u>32</u>	<u>76</u>	<u>45</u>	<u>4</u>	<u>10</u>	<u>74</u>	<u>58</u>	<u>3</u>	<u>23</u>	<u>96</u>
<u>Xingtai</u>	<u>Hebei</u>	<u>EC</u>	<u>50</u>	<u>2</u>	<u>34</u>	<u>63</u>	<u>38</u>	<u>4</u>	<u>14</u>	<u>74</u>	<u>54</u>	<u>3</u>	<u>22</u>	<u>81</u>
<u>Zhangjiakou</u>	<u>Hebei</u>	<u>EC</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>24</u>	<u>24</u>	<u>2</u>	<u>14</u>	<u>32</u>	<u>25</u>	<u>1</u>	<u>16</u>	<u>34</u>
<u>Changzhi</u>	<u>Shanxi</u>	<u>EC</u>	<u>25</u>	<u>2</u>	<u>10</u>	<u>41</u>	<u>31</u>	<u>1</u>	<u>22</u>	<u>41</u>	<u>27</u>	<u>2</u>	<u>12</u>	<u>55</u>
<u>Datong</u>	<u>Shanxi</u>	<u>EC</u>	<u>19</u>	<u>1</u>	<u>9</u>	<u>30</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>23</u>	<u>23</u>	<u>2</u>	<u>8</u>	<u>41</u>
<u>Jincheng</u>	<u>Shanxi</u>	<u>EC</u>	<u>29</u>	<u>2</u>	<u>10</u>	<u>46</u>	<u>29</u>	<u>2</u>	<u>15</u>	<u>38</u>	<u>30</u>	<u>2</u>	<u>11</u>	<u>43</u>
<u>Jinzhong</u>	<u>Shanxi</u>	<u>EC</u>	<u>22</u>	<u>1</u>	<u>15</u>	<u>31</u>	<u>20</u>	<u>1</u>	<u>12</u>	<u>29</u>	<u>24</u>	<u>1</u>	<u>11</u>	<u>36</u>
<u>Linfen</u>	<u>Shanxi</u>	<u>EC</u>	<u>20</u>	<u>1</u>	<u>14</u>	<u>25</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>32</u>	<u>23</u>	<u>1</u>	<u>12</u>	<u>35</u>
<u>Lvliang</u>	<u>Shanxi</u>	<u>EC</u>	<u>22</u>	<u>1</u>	<u>14</u>	<u>34</u>	<u>18</u>	<u>1</u>	<u>13</u>	<u>23</u>	<u>30</u>	<u>2</u>	<u>16</u>	<u>56</u>
<u>Shuozhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>31</u>	<u>2</u>	<u>13</u>	<u>45</u>	<u>31</u>	<u>1</u>	<u>20</u>	<u>39</u>	<u>31</u>	<u>2</u>	<u>15</u>	<u>65</u>
<u>Taiyuan</u>	<u>Shanxi</u>	<u>EC</u>	<u>30</u>	<u>1</u>	<u>22</u>	<u>41</u>	<u>28</u>	<u>2</u>	<u>20</u>	<u>41</u>	<u>34</u>	<u>2</u>	<u>17</u>	<u>51</u>
<u>Xinzhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>33</u>	<u>2</u>	<u>16</u>	<u>48</u>	<u>29</u>	<u>2</u>	<u>16</u>	<u>37</u>	<u>34</u>	<u>2</u>	<u>14</u>	<u>51</u>
<u>Yangquan</u>	<u>Shanxi</u>	<u>EC</u>	<u>24</u>	<u>1</u>	<u>12</u>	<u>32</u>	<u>23</u>	<u>2</u>	<u>11</u>	<u>32</u>	<u>31</u>	<u>1</u>	<u>17</u>	<u>45</u>
<u>Yuncheng</u>	<u>Shanxi</u>	<u>EC</u>	<u>13</u>	<u>2</u>	<u>4</u>	<u>30</u>	<u>20</u>	<u>2</u>	<u>10</u>	<u>33</u>	<u>21</u>	<u>2</u>	<u>8</u>	<u>46</u>
<u>Binzhou</u>	<u>Shandong</u>	<u>EC</u>	<u>27</u>	<u>2</u>	<u>16</u>	<u>49</u>	<u>28</u>	<u>3</u>	<u>15</u>	<u>55</u>	<u>35</u>	<u>2</u>	<u>14</u>	<u>59</u>
<u>Dezhou</u>	<u>Shandong</u>	<u>EC</u>	<u>29</u>	<u>2</u>	<u>19</u>	<u>46</u>	<u>30</u>	<u>2</u>	<u>16</u>	<u>42</u>	<u>40</u>	<u>3</u>	<u>17</u>	<u>66</u>
<u>Dongying</u>	<u>Shandong</u>	<u>EC</u>	<u>27</u>	<u>2</u>	<u>9</u>	<u>43</u>	<u>22</u>	<u>3</u>	<u>8</u>	<u>40</u>	<u>34</u>	<u>3</u>	<u>7</u>	<u>65</u>
<u>Jinan</u>	<u>Shandong</u>	<u>EC</u>	<u>35</u>	<u>2</u>	<u>20</u>	<u>49</u>	<u>41</u>	<u>2</u>	<u>26</u>	<u>54</u>	<u>54</u>	<u>3</u>	<u>34</u>	<u>85</u>
<u>Jining</u>	<u>Shandong</u>	<u>EC</u>	<u>31</u>	<u>2</u>	<u>13</u>	<u>50</u>	<u>37</u>	<u>3</u>	<u>24</u>	<u>67</u>	<u>43</u>	<u>2</u>	<u>25</u>	<u>83</u>

<u>Laiwu</u>	<u>Shandong</u>	<u>EC</u>	<u>29</u>	<u>2</u>	<u>12</u>	<u>47</u>	<u>38</u>	<u>2</u>	<u>23</u>	<u>54</u>	<u>46</u>	<u>2</u>	<u>24</u>	<u>68</u>
<u>Liaocheng</u>	<u>Shandong</u>	<u>EC</u>	<u>29</u>	<u>2</u>	<u>18</u>	<u>43</u>	<u>27</u>	<u>3</u>	<u>10</u>	<u>44</u>	<u>40</u>	<u>2</u>	<u>20</u>	<u>69</u>
<u>Linyi</u>	<u>Shandong</u>	<u>EC</u>	<u>33</u>	<u>2</u>	<u>16</u>	<u>54</u>	<u>39</u>	<u>3</u>	<u>27</u>	<u>62</u>	<u>41</u>	<u>3</u>	<u>18</u>	<u>80</u>
<u>Qingdao</u>	<u>Shandong</u>	<u>EC</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>35</u>	<u>28</u>	<u>1</u>	<u>16</u>	<u>36</u>	<u>29</u>	<u>2</u>	<u>12</u>	<u>50</u>
<u>Rizhao</u>	<u>Shandong</u>	<u>EC</u>	<u>20</u>	<u>2</u>	<u>5</u>	<u>39</u>	<u>28</u>	<u>3</u>	<u>16</u>	<u>44</u>	<u>33</u>	<u>3</u>	<u>7</u>	<u>65</u>
<u>Tai'an</u>	<u>Shandong</u>	<u>EC</u>	<u>30</u>	<u>2</u>	<u>17</u>	<u>47</u>	<u>38</u>	<u>2</u>	<u>22</u>	<u>50</u>	<u>38</u>	<u>2</u>	<u>22</u>	<u>62</u>
<u>Weihai</u>	<u>Shandong</u>	<u>EC</u>	<u>15</u>	<u>1</u>	<u>6</u>	<u>28</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>22</u>	<u>18</u>	<u>1</u>	<u>5</u>	<u>33</u>
<u>Weifang</u>	<u>Shandong</u>	<u>EC</u>	<u>25</u>	<u>2</u>	<u>14</u>	<u>41</u>	<u>33</u>	<u>2</u>	<u>22</u>	<u>48</u>	<u>33</u>	<u>2</u>	<u>14</u>	<u>68</u>
<u>Yantai</u>	<u>Shandong</u>	<u>EC</u>	<u>23</u>	<u>1</u>	<u>12</u>	<u>33</u>	<u>27</u>	<u>2</u>	<u>17</u>	<u>42</u>	<u>31</u>	<u>2</u>	<u>12</u>	<u>48</u>
<u>Zaozhuang</u>	<u>Shandong</u>	<u>EC</u>	<u>26</u>	<u>2</u>	<u>15</u>	<u>42</u>	<u>29</u>	<u>1</u>	<u>19</u>	<u>38</u>	<u>31</u>	<u>2</u>	<u>14</u>	<u>62</u>
<u>Zibo</u>	<u>Shandong</u>	<u>EC</u>	<u>52</u>	<u>2</u>	<u>31</u>	<u>68</u>	<u>55</u>	<u>3</u>	<u>38</u>	<u>70</u>	<u>60</u>	<u>3</u>	<u>38</u>	<u>97</u>
<u>Alxa League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>10</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>11</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>27</u>
<u>Bayannur</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>19</u>	<u>1</u>	<u>14</u>	<u>24</u>	<u>22</u>	<u>2</u>	<u>13</u>	<u>39</u>	<u>21</u>	<u>1</u>	<u>13</u>	<u>34</u>
<u>Baotou</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>34</u>	<u>2</u>	<u>20</u>	<u>49</u>	<u>33</u>	<u>2</u>	<u>18</u>	<u>43</u>	<u>37</u>	<u>2</u>	<u>14</u>	<u>63</u>
<u>Chifeng</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>27</u>	<u>17</u>	<u>0</u>	<u>14</u>	<u>20</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>24</u>
<u>Ordos</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>19</u>	<u>1</u>	<u>9</u>	<u>30</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>26</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>36</u>
<u>Hohhot</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>32</u>	<u>1</u>	<u>21</u>	<u>43</u>	<u>32</u>	<u>2</u>	<u>18</u>	<u>42</u>	<u>34</u>	<u>3</u>	<u>13</u>	<u>62</u>
<u>Hulun Buir</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>20</u>	<u>2</u>	<u>7</u>	<u>37</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>27</u>	<u>17</u>	<u>1</u>	<u>7</u>	<u>29</u>
<u>Tongliao</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>25</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>20</u>	<u>20</u>	<u>1</u>	<u>7</u>	<u>29</u>
<u>Wuhai</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>24</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>24</u>	<u>25</u>	<u>2</u>	<u>9</u>	<u>54</u>
<u>Hinggan League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>22</u>	<u>10</u>	<u>1</u>	<u>7</u>	<u>16</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>24</u>
<u>Anyang</u>	<u>Henan</u>	<u>EC</u>	<u>30</u>	<u>2</u>	<u>18</u>	<u>47</u>	<u>32</u>	<u>2</u>	<u>20</u>	<u>42</u>	<u>46</u>	<u>2</u>	<u>19</u>	<u>77</u>
<u>Hebi</u>	<u>Henan</u>	<u>EC</u>	<u>27</u>	<u>3</u>	<u>9</u>	<u>48</u>	<u>24</u>	<u>2</u>	<u>16</u>	<u>39</u>	<u>48</u>	<u>3</u>	<u>16</u>	<u>72</u>
<u>Jiaozuo</u>	<u>Henan</u>	<u>EC</u>	<u>29</u>	<u>2</u>	<u>21</u>	<u>47</u>	<u>30</u>	<u>2</u>	<u>17</u>	<u>40</u>	<u>36</u>	<u>2</u>	<u>16</u>	<u>55</u>
<u>Kaifeng</u>	<u>Henan</u>	<u>EC</u>	<u>25</u>	<u>2</u>	<u>15</u>	<u>49</u>	<u>24</u>	<u>2</u>	<u>14</u>	<u>36</u>	<u>36</u>	<u>2</u>	<u>19</u>	<u>59</u>
<u>Luoyang</u>	<u>Henan</u>	<u>EC</u>	<u>23</u>	<u>1</u>	<u>15</u>	<u>41</u>	<u>25</u>	<u>2</u>	<u>13</u>	<u>33</u>	<u>35</u>	<u>2</u>	<u>16</u>	<u>54</u>

<u>Luohe</u>	<u>Henan</u>	<u>EC</u>	<u>18</u>	<u>2</u>	<u>9</u>	<u>33</u>	<u>23</u>	<u>2</u>	<u>12</u>	<u>35</u>	<u>31</u>	<u>2</u>	<u>13</u>	<u>48</u>
<u>Nanyang</u>	<u>Henan</u>	<u>EC</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>25</u>	<u>21</u>	<u>1</u>	<u>14</u>	<u>28</u>	<u>22</u>	<u>2</u>	<u>8</u>	<u>41</u>
<u>Pingdingshan</u>	<u>Henan</u>	<u>EC</u>	<u>27</u>	<u>2</u>	<u>14</u>	<u>41</u>	<u>33</u>	<u>2</u>	<u>23</u>	<u>43</u>	<u>38</u>	<u>2</u>	<u>22</u>	<u>56</u>
<u>Sanmenxia</u>	<u>Henan</u>	<u>EC</u>	<u>23</u>	<u>2</u>	<u>15</u>	<u>43</u>	<u>23</u>	<u>3</u>	<u>14</u>	<u>49</u>	<u>28</u>	<u>1</u>	<u>16</u>	<u>42</u>
<u>Shangqiu</u>	<u>Henan</u>	<u>EC</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>31</u>	<u>21</u>	<u>2</u>	<u>11</u>	<u>39</u>	<u>28</u>	<u>2</u>	<u>14</u>	<u>65</u>
<u>Xinyang</u>	<u>Henan</u>	<u>EC</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>30</u>	<u>28</u>	<u>1</u>	<u>22</u>	<u>32</u>	<u>29</u>	<u>1</u>	<u>15</u>	<u>42</u>
<u>Zhengzhou</u>	<u>Henan</u>	<u>EC</u>	<u>39</u>	<u>3</u>	<u>23</u>	<u>73</u>	<u>45</u>	<u>3</u>	<u>24</u>	<u>69</u>	<u>56</u>	<u>3</u>	<u>26</u>	<u>86</u>
<u>Zhoukou</u>	<u>Henan</u>	<u>EC</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>17</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>19</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>36</u>
<u>Zhumadian</u>	<u>Henan</u>	<u>EC</u>	<u>22</u>	<u>2</u>	<u>8</u>	<u>34</u>	<u>24</u>	<u>1</u>	<u>16</u>	<u>32</u>	<u>25</u>	<u>1</u>	<u>13</u>	<u>46</u>
<u>Anshan</u>	<u>Liaoning</u>	<u>NEC</u>	<u>18</u>	<u>2</u>	<u>11</u>	<u>33</u>	<u>27</u>	<u>1</u>	<u>16</u>	<u>31</u>	<u>31</u>	<u>2</u>	<u>11</u>	<u>54</u>
<u>Benxi</u>	<u>Liaoning</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>30</u>	<u>25</u>	<u>1</u>	<u>14</u>	<u>34</u>	<u>36</u>	<u>2</u>	<u>17</u>	<u>60</u>
<u>Chaoyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>16</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>17</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>24</u>
<u>Dalian</u>	<u>Liaoning</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>14</u>	<u>25</u>	<u>23</u>	<u>1</u>	<u>17</u>	<u>31</u>	<u>30</u>	<u>1</u>	<u>15</u>	<u>40</u>
<u>Dandong</u>	<u>Liaoning</u>	<u>NEC</u>	<u>29</u>	<u>8</u>	<u>1</u>	<u>108</u>	<u>15</u>	<u>1</u>	<u>7</u>	<u>20</u>	<u>20</u>	<u>1</u>	<u>12</u>	<u>42</u>
<u>Fushun</u>	<u>Liaoning</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>22</u>	<u>18</u>	<u>1</u>	<u>8</u>	<u>24</u>	<u>30</u>	<u>2</u>	<u>12</u>	<u>50</u>
<u>Fuxin</u>	<u>Liaoning</u>	<u>NEC</u>	<u>28</u>	<u>1</u>	<u>18</u>	<u>38</u>	<u>25</u>	<u>1</u>	<u>15</u>	<u>35</u>	<u>31</u>	<u>1</u>	<u>15</u>	<u>42</u>
<u>Huludao</u>	<u>Liaoning</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>11</u>	<u>44</u>	<u>28</u>	<u>2</u>	<u>15</u>	<u>41</u>	<u>33</u>	<u>2</u>	<u>14</u>	<u>49</u>
<u>Jinzhou</u>	<u>Liaoning</u>	<u>NEC</u>	<u>26</u>	<u>1</u>	<u>18</u>	<u>36</u>	<u>28</u>	<u>1</u>	<u>21</u>	<u>36</u>	<u>34</u>	<u>1</u>	<u>20</u>	<u>44</u>
<u>Liaoyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>6</u>	<u>31</u>	<u>26</u>	<u>1</u>	<u>15</u>	<u>32</u>	<u>30</u>	<u>2</u>	<u>6</u>	<u>57</u>
<u>Panjin</u>	<u>Liaoning</u>	<u>NEC</u>	<u>13</u>	<u>2</u>	<u>4</u>	<u>32</u>	<u>24</u>	<u>1</u>	<u>17</u>	<u>32</u>	<u>27</u>	<u>2</u>	<u>13</u>	<u>51</u>
<u>Shenyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>31</u>	<u>2</u>	<u>20</u>	<u>49</u>	<u>35</u>	<u>2</u>	<u>27</u>	<u>48</u>	<u>44</u>	<u>2</u>	<u>25</u>	<u>63</u>
<u>Tieling</u>	<u>Liaoning</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>26</u>	<u>23</u>	<u>1</u>	<u>14</u>	<u>29</u>	<u>29</u>	<u>1</u>	<u>16</u>	<u>41</u>
<u>Wafangdian</u>	<u>Liaoning</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>24</u>	<u>21</u>	<u>1</u>	<u>15</u>	<u>33</u>	<u>31</u>	<u>1</u>	<u>18</u>	<u>46</u>
<u>Yingkou</u>	<u>Liaoning</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>27</u>	<u>22</u>	<u>1</u>	<u>15</u>	<u>33</u>	<u>30</u>	<u>2</u>	<u>16</u>	<u>61</u>
<u>Baicheng</u>	<u>Jilin</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>21</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>13</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>19</u>
<u>Baishan</u>	<u>Jilin</u>	<u>NEC</u>	<u>14</u>	<u>0</u>	<u>9</u>	<u>18</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>19</u>	<u>21</u>	<u>1</u>	<u>13</u>	<u>36</u>

<u>Changchun</u>	<u>Jilin</u>	<u>NEC</u>	<u>28</u>	<u>2</u>	<u>17</u>	<u>44</u>	<u>33</u>	<u>2</u>	<u>22</u>	<u>45</u>	<u>42</u>	<u>2</u>	<u>22</u>	<u>62</u>
<u>Jilin</u>	<u>Jilin</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>28</u>	<u>24</u>	<u>1</u>	<u>16</u>	<u>31</u>	<u>31</u>	<u>1</u>	<u>25</u>	<u>43</u>
<u>Liaoyuan</u>	<u>Jilin</u>	<u>NEC</u>	<u>15</u>	<u>2</u>	<u>3</u>	<u>30</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>24</u>	<u>26</u>	<u>1</u>	<u>11</u>	<u>37</u>
<u>Siping</u>	<u>Jilin</u>	<u>NEC</u>	<u>17</u>	<u>2</u>	<u>4</u>	<u>33</u>	<u>23</u>	<u>3</u>	<u>13</u>	<u>62</u>	<u>32</u>	<u>2</u>	<u>12</u>	<u>51</u>
<u>Songyuan</u>	<u>Jilin</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>9</u>	<u>24</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>22</u>	<u>26</u>	<u>2</u>	<u>10</u>	<u>42</u>
<u>Daqing</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>23</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>24</u>	<u>21</u>	<u>1</u>	<u>10</u>	<u>35</u>
<u>Daxinganling</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>8</u>	<u>15</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>20</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>18</u>
<u>Harbin</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>31</u>	<u>2</u>	<u>21</u>	<u>51</u>	<u>31</u>	<u>2</u>	<u>20</u>	<u>42</u>	<u>37</u>	<u>2</u>	<u>18</u>	<u>60</u>
<u>Hegang</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>6</u>	<u>1</u>	<u>3</u>	<u>10</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>6</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>17</u>
<u>Heihe</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>15</u>	<u>9</u>	<u>1</u>	<u>7</u>	<u>14</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>29</u>
<u>Jixi</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>21</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>19</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>34</u>
<u>Jiamusi</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>8</u>	<u>27</u>	<u>15</u>	<u>2</u>	<u>8</u>	<u>31</u>	<u>22</u>	<u>2</u>	<u>5</u>	<u>50</u>
<u>Mudanjiang</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>24</u>	<u>1</u>	<u>16</u>	<u>33</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>25</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>33</u>
<u>Qitaihe</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>12</u>	<u>0</u>	<u>10</u>	<u>16</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>15</u>	<u>13</u>	<u>1</u>	<u>5</u>	<u>19</u>
<u>Qiqihar</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>19</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>16</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>28</u>
<u>Shuangyashan</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>15</u>	<u>0</u>	<u>12</u>	<u>19</u>	<u>15</u>	<u>1</u>	<u>9</u>	<u>18</u>	<u>18</u>	<u>1</u>	<u>13</u>	<u>28</u>
<u>Suihua</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>10</u>	<u>41</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>24</u>	<u>15</u>	<u>1</u>	<u>7</u>	<u>30</u>
<u>Ankang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>6</u>	<u>1</u>	<u>3</u>	<u>11</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>11</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>18</u>
<u>Baoji</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>23</u>	<u>1</u>	<u>16</u>	<u>34</u>	<u>28</u>	<u>1</u>	<u>16</u>	<u>33</u>	<u>28</u>	<u>1</u>	<u>17</u>	<u>39</u>
<u>Hanzhong</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>9</u>	<u>22</u>	<u>22</u>	<u>1</u>	<u>13</u>	<u>27</u>	<u>23</u>	<u>1</u>	<u>10</u>	<u>31</u>
<u>Shangluo</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>22</u>	<u>19</u>	<u>1</u>	<u>13</u>	<u>24</u>	<u>21</u>	<u>1</u>	<u>15</u>	<u>28</u>
<u>Tongchuan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>24</u>	<u>2</u>	<u>15</u>	<u>47</u>	<u>26</u>	<u>1</u>	<u>17</u>	<u>32</u>	<u>27</u>	<u>1</u>	<u>15</u>	<u>41</u>
<u>Weinan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>29</u>	<u>1</u>	<u>22</u>	<u>43</u>	<u>39</u>	<u>2</u>	<u>29</u>	<u>54</u>	<u>37</u>	<u>2</u>	<u>22</u>	<u>56</u>
<u>Xi'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>36</u>	<u>2</u>	<u>24</u>	<u>55</u>	<u>44</u>	<u>2</u>	<u>29</u>	<u>57</u>	<u>38</u>	<u>2</u>	<u>21</u>	<u>56</u>
<u>Xianyang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>23</u>	<u>1</u>	<u>13</u>	<u>36</u>	<u>27</u>	<u>1</u>	<u>19</u>	<u>34</u>	<u>30</u>	<u>2</u>	<u>16</u>	<u>49</u>
<u>Yan'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>35</u>	<u>1</u>	<u>23</u>	<u>40</u>	<u>40</u>	<u>1</u>	<u>33</u>	<u>53</u>	<u>35</u>	<u>1</u>	<u>27</u>	<u>44</u>

<u>Yulin</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>12</u>	<u>43</u>	<u>33</u>	<u>3</u>	<u>14</u>	<u>56</u>	<u>26</u>	<u>2</u>	<u>15</u>	<u>48</u>
<u>Baiying</u>	<u>Gansu</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>12</u>	<u>40</u>	<u>28</u>	<u>3</u>	<u>4</u>	<u>42</u>	<u>22</u>	<u>2</u>	<u>6</u>	<u>50</u>
<u>Dingxi</u>	<u>Gansu</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>9</u>	<u>40</u>	<u>20</u>	<u>1</u>	<u>12</u>	<u>30</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>35</u>
<u>Gannan</u>	<u>Gansu</u>	<u>NEC</u>	<u>17</u>	<u>2</u>	<u>8</u>	<u>40</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>19</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>28</u>
<u>Jiayuguan</u>	<u>Gansu</u>	<u>NEC</u>	<u>25</u>	<u>1</u>	<u>13</u>	<u>37</u>	<u>19</u>	<u>1</u>	<u>13</u>	<u>29</u>	<u>28</u>	<u>1</u>	<u>15</u>	<u>42</u>
<u>Jiuquan</u>	<u>Gansu</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>8</u>	<u>37</u>	<u>25</u>	<u>2</u>	<u>12</u>	<u>38</u>	<u>26</u>	<u>1</u>	<u>14</u>	<u>42</u>
<u>Lanzhou</u>	<u>Gansu</u>	<u>NEC</u>	<u>38</u>	<u>2</u>	<u>20</u>	<u>53</u>	<u>42</u>	<u>3</u>	<u>25</u>	<u>59</u>	<u>42</u>	<u>2</u>	<u>23</u>	<u>72</u>
<u>Linxia</u>	<u>Gansu</u>	<u>NEC</u>	<u>26</u>	<u>2</u>	<u>12</u>	<u>49</u>	<u>31</u>	<u>2</u>	<u>20</u>	<u>49</u>	<u>25</u>	<u>2</u>	<u>7</u>	<u>40</u>
<u>Pingliang</u>	<u>Gansu</u>	<u>NEC</u>	<u>41</u>	<u>1</u>	<u>28</u>	<u>50</u>	<u>50</u>	<u>2</u>	<u>38</u>	<u>62</u>	<u>43</u>	<u>1</u>	<u>29</u>	<u>55</u>
<u>Qingyang</u>	<u>Gansu</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>16</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>20</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>21</u>
<u>Tianshui</u>	<u>Gansu</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>22</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>19</u>	<u>20</u>	<u>1</u>	<u>14</u>	<u>27</u>
<u>Wuwei</u>	<u>Gansu</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>13</u>	<u>36</u>	<u>23</u>	<u>2</u>	<u>14</u>	<u>35</u>	<u>21</u>	<u>2</u>	<u>11</u>	<u>46</u>
<u>Zhangye</u>	<u>Gansu</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>26</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>21</u>	<u>20</u>	<u>1</u>	<u>11</u>	<u>36</u>
<u>Guyuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>18</u>	<u>2</u>	<u>9</u>	<u>30</u>	<u>22</u>	<u>2</u>	<u>11</u>	<u>31</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>28</u>
<u>Shizuishan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>12</u>	<u>33</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>30</u>	<u>23</u>	<u>1</u>	<u>11</u>	<u>44</u>
<u>Wuzhong</u>	<u>Ningxia</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>29</u>	<u>18</u>	<u>2</u>	<u>5</u>	<u>28</u>	<u>16</u>	<u>2</u>	<u>6</u>	<u>36</u>
<u>Yinchuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>13</u>	<u>48</u>	<u>29</u>	<u>3</u>	<u>16</u>	<u>45</u>	<u>25</u>	<u>2</u>	<u>10</u>	<u>44</u>
<u>Zhongwei</u>	<u>Ningxia</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>18</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>22</u>	<u>15</u>	<u>1</u>	<u>6</u>	<u>33</u>
<u>Aksu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>12</u>	<u>42</u>	<u>21</u>	<u>2</u>	<u>11</u>	<u>38</u>	<u>22</u>	<u>2</u>	<u>8</u>	<u>40</u>
<u>Hami</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>4</u>	<u>21</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>19</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>29</u>
<u>Hotan</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>11</u>	<u>35</u>	<u>18</u>	<u>2</u>	<u>10</u>	<u>29</u>	<u>23</u>	<u>2</u>	<u>11</u>	<u>39</u>
<u>Kashgar</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>22</u>	<u>2</u>	<u>10</u>	<u>36</u>	<u>19</u>	<u>2</u>	<u>9</u>	<u>36</u>	<u>23</u>	<u>2</u>	<u>11</u>	<u>44</u>
<u>Karamay</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>5</u>	<u>28</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>28</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>36</u>
<u>Kizilsu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>1</u>	<u>19</u>	<u>9</u>	<u>1</u>	<u>6</u>	<u>15</u>	<u>9</u>	<u>1</u>	<u>1</u>	<u>19</u>
<u>Shihezi</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>28</u>	<u>3</u>	<u>7</u>	<u>64</u>	<u>22</u>	<u>3</u>	<u>6</u>	<u>38</u>	<u>26</u>	<u>2</u>	<u>10</u>	<u>63</u>
<u>Urumchi</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>41</u>	<u>2</u>	<u>20</u>	<u>58</u>	<u>38</u>	<u>2</u>	<u>24</u>	<u>50</u>	<u>35</u>	<u>3</u>	<u>15</u>	<u>72</u>

<u>Wujiachu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>30</u>	<u>3</u>	<u>9</u>	<u>53</u>	<u>24</u>	<u>3</u>	<u>10</u>	<u>49</u>	<u>21</u>	<u>2</u>	<u>4</u>	<u>56</u>
<u>Yili</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>11</u>	<u>34</u>	<u>24</u>	<u>2</u>	<u>12</u>	<u>34</u>	<u>26</u>	<u>2</u>	<u>10</u>	<u>52</u>
<u>Ezhou</u>	<u>Hubei</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>24</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>30</u>	<u>21</u>	<u>1</u>	<u>10</u>	<u>37</u>
<u>Huanggang</u>	<u>Hubei</u>	<u>NEC</u>	<u>14</u>	<u>2</u>	<u>4</u>	<u>23</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>26</u>	<u>20</u>	<u>2</u>	<u>8</u>	<u>43</u>
<u>Jingmen</u>	<u>Hubei</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>38</u>	<u>27</u>	<u>2</u>	<u>17</u>	<u>38</u>	<u>25</u>	<u>2</u>	<u>13</u>	<u>43</u>
<u>Shiyan</u>	<u>Hubei</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>19</u>	<u>13</u>	<u>0</u>	<u>10</u>	<u>16</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>21</u>
<u>Wuhan</u>	<u>Hubei</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>11</u>	<u>52</u>	<u>41</u>	<u>4</u>	<u>18</u>	<u>64</u>	<u>40</u>	<u>3</u>	<u>19</u>	<u>86</u>
<u>Xianning</u>	<u>Hubei</u>	<u>NEC</u>	<u>12</u>	<u>0</u>	<u>9</u>	<u>16</u>	<u>15</u>	<u>1</u>	<u>11</u>	<u>19</u>	<u>16</u>	<u>1</u>	<u>9</u>	<u>24</u>
<u>Xiangyang</u>	<u>Hubei</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>34</u>	<u>23</u>	<u>1</u>	<u>16</u>	<u>31</u>	<u>30</u>	<u>2</u>	<u>16</u>	<u>60</u>
<u>Xiaogan</u>	<u>Hubei</u>	<u>NEC</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>12</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>20</u>	<u>17</u>	<u>2</u>	<u>6</u>	<u>41</u>
<u>Yichang</u>	<u>Hubei</u>	<u>NEC</u>	<u>24</u>	<u>1</u>	<u>19</u>	<u>32</u>	<u>26</u>	<u>1</u>	<u>23</u>	<u>32</u>	<u>33</u>	<u>1</u>	<u>23</u>	<u>46</u>
<u>Anqing</u>	<u>Anhui</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>12</u>	<u>37</u>	<u>21</u>	<u>2</u>	<u>14</u>	<u>46</u>	<u>21</u>	<u>1</u>	<u>14</u>	<u>35</u>
<u>Bengbu</u>	<u>Anhui</u>	<u>NEC</u>	<u>24</u>	<u>2</u>	<u>11</u>	<u>40</u>	<u>32</u>	<u>2</u>	<u>20</u>	<u>42</u>	<u>33</u>	<u>2</u>	<u>21</u>	<u>59</u>
<u>Bozhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>33</u>	<u>1</u>	<u>24</u>	<u>45</u>	<u>46</u>	<u>2</u>	<u>35</u>	<u>72</u>	<u>41</u>	<u>2</u>	<u>27</u>	<u>80</u>
<u>Chuzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>29</u>	<u>2</u>	<u>18</u>	<u>41</u>	<u>22</u>	<u>1</u>	<u>11</u>	<u>30</u>	<u>22</u>	<u>2</u>	<u>12</u>	<u>38</u>
<u>Fuyang</u>	<u>Anhui</u>	<u>NEC</u>	<u>28</u>	<u>1</u>	<u>21</u>	<u>46</u>	<u>43</u>	<u>3</u>	<u>30</u>	<u>64</u>	<u>41</u>	<u>2</u>	<u>25</u>	<u>70</u>
<u>Hefei</u>	<u>Anhui</u>	<u>NEC</u>	<u>24</u>	<u>2</u>	<u>14</u>	<u>38</u>	<u>31</u>	<u>3</u>	<u>19</u>	<u>58</u>	<u>29</u>	<u>2</u>	<u>18</u>	<u>48</u>
<u>Huaibei</u>	<u>Anhui</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>14</u>	<u>25</u>	<u>24</u>	<u>1</u>	<u>18</u>	<u>32</u>	<u>28</u>	<u>2</u>	<u>18</u>	<u>54</u>
<u>Huainan</u>	<u>Anhui</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>11</u>	<u>29</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>26</u>	<u>23</u>	<u>1</u>	<u>14</u>	<u>34</u>
<u>Huangshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>9</u>	<u>0</u>	<u>8</u>	<u>10</u>	<u>9</u>	<u>0</u>	<u>8</u>	<u>10</u>	<u>10</u>	<u>0</u>	<u>8</u>	<u>12</u>
<u>Lu'an</u>	<u>Anhui</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>27</u>	<u>15</u>	<u>1</u>	<u>9</u>	<u>21</u>	<u>15</u>	<u>1</u>	<u>7</u>	<u>26</u>
<u>Ma'anshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>10</u>	<u>30</u>	<u>21</u>	<u>1</u>	<u>15</u>	<u>28</u>	<u>19</u>	<u>1</u>	<u>6</u>	<u>42</u>
<u>Suzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>18</u>	<u>0</u>	<u>15</u>	<u>21</u>	<u>19</u>	<u>1</u>	<u>16</u>	<u>26</u>	<u>21</u>	<u>1</u>	<u>16</u>	<u>35</u>
<u>Tongling</u>	<u>Anhui</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>15</u>	<u>35</u>	<u>31</u>	<u>2</u>	<u>18</u>	<u>47</u>	<u>30</u>	<u>1</u>	<u>18</u>	<u>42</u>
<u>Wuhu</u>	<u>Anhui</u>	<u>NEC</u>	<u>38</u>	<u>1</u>	<u>30</u>	<u>51</u>	<u>38</u>	<u>2</u>	<u>29</u>	<u>49</u>	<u>40</u>	<u>2</u>	<u>24</u>	<u>79</u>
<u>Changzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>33</u>	<u>3</u>	<u>16</u>	<u>70</u>	<u>34</u>	<u>3</u>	<u>15</u>	<u>51</u>	<u>33</u>	<u>2</u>	<u>20</u>	<u>67</u>

<u>Huaian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>3</u>	<u>22</u>	<u>15</u>	<u>2</u>	<u>5</u>	<u>30</u>	<u>16</u>	<u>1</u>	<u>6</u>	<u>33</u>
<u>Lianyungang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>27</u>	<u>24</u>	<u>1</u>	<u>16</u>	<u>32</u>	<u>25</u>	<u>2</u>	<u>10</u>	<u>39</u>
<u>Nanjing</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>36</u>	<u>2</u>	<u>19</u>	<u>54</u>	<u>39</u>	<u>3</u>	<u>25</u>	<u>61</u>	<u>44</u>	<u>2</u>	<u>20</u>	<u>77</u>
<u>Nantong</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>24</u>	<u>3</u>	<u>7</u>	<u>49</u>	<u>25</u>	<u>3</u>	<u>8</u>	<u>50</u>	<u>24</u>	<u>1</u>	<u>12</u>	<u>39</u>
<u>Suzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>31</u>	<u>2</u>	<u>18</u>	<u>46</u>	<u>42</u>	<u>2</u>	<u>32</u>	<u>57</u>	<u>42</u>	<u>2</u>	<u>27</u>	<u>59</u>
<u>Suqian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>26</u>	<u>2</u>	<u>8</u>	<u>38</u>	<u>27</u>	<u>1</u>	<u>20</u>	<u>39</u>	<u>30</u>	<u>2</u>	<u>10</u>	<u>57</u>
<u>Taizhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>19</u>	<u>2</u>	<u>8</u>	<u>33</u>	<u>20</u>	<u>1</u>	<u>14</u>	<u>34</u>	<u>23</u>	<u>1</u>	<u>15</u>	<u>30</u>
<u>Wuxi</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>15</u>	<u>51</u>	<u>34</u>	<u>1</u>	<u>27</u>	<u>48</u>	<u>31</u>	<u>1</u>	<u>18</u>	<u>42</u>
<u>Xuzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>26</u>	<u>2</u>	<u>12</u>	<u>43</u>	<u>33</u>	<u>2</u>	<u>21</u>	<u>48</u>	<u>35</u>	<u>2</u>	<u>18</u>	<u>74</u>
<u>Yanchen</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>8</u>	<u>26</u>	<u>22</u>	<u>1</u>	<u>14</u>	<u>32</u>	<u>21</u>	<u>1</u>	<u>11</u>	<u>36</u>
<u>Yangzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>7</u>	<u>48</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>28</u>	<u>21</u>	<u>1</u>	<u>9</u>	<u>32</u>
<u>Zhenjiang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>27</u>	<u>2</u>	<u>16</u>	<u>44</u>	<u>35</u>	<u>2</u>	<u>18</u>	<u>49</u>	<u>29</u>	<u>1</u>	<u>18</u>	<u>41</u>
<u>Shanghai</u>	<u>Municipality</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>9</u>	<u>33</u>	<u>36</u>	<u>3</u>	<u>19</u>	<u>54</u>	<u>29</u>	<u>1</u>	<u>17</u>	<u>44</u>
<u>Hangzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>29</u>	<u>2</u>	<u>11</u>	<u>48</u>	<u>33</u>	<u>2</u>	<u>20</u>	<u>45</u>	<u>40</u>	<u>2</u>	<u>20</u>	<u>73</u>
<u>Huzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>9</u>	<u>40</u>	<u>32</u>	<u>2</u>	<u>22</u>	<u>49</u>	<u>30</u>	<u>3</u>	<u>12</u>	<u>74</u>
<u>Jiaxing</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>19</u>	<u>2</u>	<u>6</u>	<u>30</u>	<u>29</u>	<u>2</u>	<u>19</u>	<u>51</u>	<u>33</u>	<u>2</u>	<u>15</u>	<u>61</u>
<u>Jinhua</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>9</u>	<u>31</u>	<u>25</u>	<u>2</u>	<u>8</u>	<u>38</u>	<u>32</u>	<u>2</u>	<u>14</u>	<u>50</u>
<u>Lishui</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>5</u>	<u>20</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>19</u>	<u>20</u>	<u>1</u>	<u>10</u>	<u>36</u>
<u>Ningbo</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>8</u>	<u>38</u>	<u>29</u>	<u>2</u>	<u>14</u>	<u>42</u>	<u>36</u>	<u>3</u>	<u>13</u>	<u>66</u>
<u>Quzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>9</u>	<u>31</u>	<u>26</u>	<u>2</u>	<u>8</u>	<u>41</u>	<u>28</u>	<u>1</u>	<u>16</u>	<u>45</u>
<u>Shaoxing</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>26</u>	<u>2</u>	<u>11</u>	<u>39</u>	<u>38</u>	<u>1</u>	<u>28</u>	<u>49</u>	<u>40</u>	<u>2</u>	<u>20</u>	<u>64</u>
<u>Taizhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>1</u>	<u>20</u>	<u>15</u>	<u>2</u>	<u>7</u>	<u>25</u>	<u>18</u>	<u>1</u>	<u>4</u>	<u>28</u>
<u>Wenjiang</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>25</u>	<u>3</u>	<u>2</u>	<u>44</u>	<u>29</u>	<u>3</u>	<u>10</u>	<u>45</u>	<u>34</u>	<u>2</u>	<u>12</u>	<u>55</u>
<u>Zhoushan</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>3</u>	<u>24</u>	<u>14</u>	<u>1</u>	<u>5</u>	<u>20</u>	<u>13</u>	<u>1</u>	<u>5</u>	<u>23</u>
<u>Fuzhou</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>14</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>19</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>22</u>
<u>Ganzhou</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>18</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>20</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>22</u>

Ji'an	Jiangxi	NEC	9	1	5	18	14	1	8	22	15	1	7	27
Jingdezhen	Jiangxi	NEC	12	1	5	32	12	1	6	18	13	1	8	23
Jiujiang	Jiangxi	NEC	15	1	8	25	19	1	12	29	20	1	11	31
Nanchang	Jiangxi	NEC	20	2	8	35	21	2	14	40	19	1	12	27
Pingxiang	Jiangxi	NEC	10	1	5	15	15	1	10	18	14	1	7	21
Shangrao	Jiangxi	NEC	14	1	8	21	18	1	12	28	21	1	13	28
Xinyu	Jiangxi	NEC	11	1	5	16	12	1	7	18	14	1	9	22
Yichun	Jiangxi	NEC	13	0	9	17	14	1	10	19	16	1	10	23
Yingtan	Jiangxi	NEC	10	0	6	14	13	1	9	18	18	1	9	22
Changsha	Hunan	NEC	19	1	9	31	27	1	16	33	26	2	15	48
Changde	Hunan	NEC	13	1	6	24	11	1	8	16	13	1	7	22
Chenzhou	Hunan	NEC	18	1	9	26	20	1	12	25	23	1	13	36
Huaihua	Hunan	NEC	8	1	4	14	14	1	5	22	12	1	4	21
Loudi	Hunan	NEC	11	1	6	16	12	1	8	18	10	0	4	15
Xiangtan	Hunan	NEC	24	1	13	34	30	2	17	42	31	2	16	53
Yiyang	Hunan	NEC	15	1	9	22	18	1	12	27	19	1	10	34
Yongzhou	Hunan	NEC	19	1	14	25	21	1	14	28	24	1	13	32
Zhangjiajie	Hunan	NEC	18	1	11	29	22	1	18	26	21	1	15	28
Zhuzhou	Hunan	NEC	17	1	12	25	25	1	18	30	27	1	17	39
Dongguan	Guangdong	NEC	31	2	20	45	31	2	24	49	28	2	4	46
Foshan	Guangdong	NEC	32	2	20	44	41	1	33	49	29	1	18	44
Guangzhou	Guangdong	NEC	35	1	23	47	38	2	28	48	41	2	21	60
Heyuan	Guangdong	NEC	18	1	10	27	19	1	11	26	20	1	13	39
Huizhou	Guangdong	NEC	19	1	10	27	17	1	13	25	20	2	8	39
Jiangmen	Guangdong	NEC	14	1	9	20	25	1	19	34	20	2	8	37
Maoming	Guangdong	NEC	10	1	6	14	12	1	9	15	10	0	6	15

<u>Meizhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>19</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>25</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>28</u>
<u>Qingyuan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>33</u>	<u>1</u>	<u>22</u>	<u>44</u>	<u>24</u>	<u>2</u>	<u>14</u>	<u>40</u>	<u>24</u>	<u>1</u>	<u>13</u>	<u>40</u>
<u>Shantou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>26</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>19</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>22</u>
<u>Shaoguan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>25</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>18</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>34</u>
<u>Shenzhen</u>	<u>Guangdong</u>	<u>NEC</u>	<u>34</u>	<u>2</u>	<u>22</u>	<u>47</u>	<u>33</u>	<u>2</u>	<u>24</u>	<u>48</u>	<u>30</u>	<u>1</u>	<u>21</u>	<u>45</u>
<u>Zhujiang</u>	<u>Guangdong</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>20</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>22</u>	<u>13</u>	<u>1</u>	<u>6</u>	<u>23</u>
<u>Zhaoqing</u>	<u>Guangdong</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>30</u>	<u>26</u>	<u>2</u>	<u>12</u>	<u>41</u>	<u>23</u>	<u>1</u>	<u>15</u>	<u>35</u>
<u>Zhongshan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>31</u>	<u>24</u>	<u>2</u>	<u>14</u>	<u>33</u>	<u>19</u>	<u>1</u>	<u>9</u>	<u>31</u>
<u>Zhuhai</u>	<u>Guangdong</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>28</u>	<u>25</u>	<u>1</u>	<u>19</u>	<u>31</u>	<u>19</u>	<u>1</u>	<u>10</u>	<u>28</u>
<u>Fuzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>21</u>	<u>1</u>	<u>4</u>	<u>30</u>	<u>22</u>	<u>2</u>	<u>8</u>	<u>36</u>	<u>24</u>	<u>2</u>	<u>9</u>	<u>47</u>
<u>Longyan</u>	<u>Fujian</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>28</u>	<u>17</u>	<u>1</u>	<u>13</u>	<u>20</u>	<u>20</u>	<u>1</u>	<u>10</u>	<u>31</u>
<u>Nanping</u>	<u>Fujian</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>7</u>	<u>15</u>	<u>9</u>	<u>1</u>	<u>6</u>	<u>13</u>	<u>10</u>	<u>0</u>	<u>6</u>	<u>14</u>
<u>Ningde</u>	<u>Fujian</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>3</u>	<u>22</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>19</u>	<u>17</u>	<u>1</u>	<u>7</u>	<u>31</u>
<u>Putian</u>	<u>Fujian</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>3</u>	<u>23</u>	<u>13</u>	<u>1</u>	<u>5</u>	<u>19</u>	<u>13</u>	<u>1</u>	<u>4</u>	<u>20</u>
<u>Quanzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>18</u>	<u>2</u>	<u>2</u>	<u>27</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>23</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>34</u>
<u>Sanming</u>	<u>Fujian</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>12</u>	<u>29</u>	<u>20</u>	<u>1</u>	<u>11</u>	<u>31</u>	<u>23</u>	<u>1</u>	<u>15</u>	<u>33</u>
<u>Xiamen</u>	<u>Fujian</u>	<u>NEC</u>	<u>26</u>	<u>1</u>	<u>15</u>	<u>41</u>	<u>22</u>	<u>1</u>	<u>17</u>	<u>28</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>34</u>
<u>Zhangzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>22</u>	<u>19</u>	<u>1</u>	<u>16</u>	<u>24</u>	<u>22</u>	<u>1</u>	<u>13</u>	<u>38</u>
<u>Haikou</u>	<u>Hainan</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>21</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>21</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>26</u>
<u>Sanya</u>	<u>Hainan</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>19</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>20</u>	<u>13</u>	<u>1</u>	<u>4</u>	<u>21</u>
<u>Chongqing</u>	<u>Municipality</u>	<u>NEC</u>	<u>29</u>	<u>2</u>	<u>20</u>	<u>48</u>	<u>46</u>	<u>2</u>	<u>35</u>	<u>57</u>	<u>37</u>	<u>1</u>	<u>22</u>	<u>52</u>
<u>Bazhong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>11</u>	<u>23</u>	<u>22</u>	<u>1</u>	<u>17</u>	<u>27</u>	<u>21</u>	<u>1</u>	<u>15</u>	<u>35</u>
<u>Chengdu</u>	<u>Sichuan</u>	<u>NEC</u>	<u>39</u>	<u>3</u>	<u>15</u>	<u>63</u>	<u>54</u>	<u>4</u>	<u>25</u>	<u>81</u>	<u>43</u>	<u>2</u>	<u>26</u>	<u>73</u>
<u>Dazhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>31</u>	<u>1</u>	<u>21</u>	<u>38</u>	<u>35</u>	<u>1</u>	<u>26</u>	<u>45</u>	<u>34</u>	<u>1</u>	<u>24</u>	<u>42</u>
<u>Deyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>9</u>	<u>39</u>	<u>30</u>	<u>2</u>	<u>17</u>	<u>48</u>	<u>24</u>	<u>2</u>	<u>9</u>	<u>45</u>
<u>Guangyuan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>24</u>	<u>1</u>	<u>19</u>	<u>39</u>	<u>26</u>	<u>2</u>	<u>18</u>	<u>40</u>	<u>27</u>	<u>1</u>	<u>13</u>	<u>37</u>

<u>Leshan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>23</u>	<u>1</u>	<u>15</u>	<u>35</u>	<u>28</u>	<u>2</u>	<u>17</u>	<u>42</u>	<u>24</u>	<u>1</u>	<u>17</u>	<u>37</u>
<u>Luzhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>11</u>	<u>30</u>	<u>28</u>	<u>2</u>	<u>12</u>	<u>41</u>	<u>23</u>	<u>1</u>	<u>10</u>	<u>34</u>
<u>Meishan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>10</u>	<u>34</u>	<u>25</u>	<u>2</u>	<u>15</u>	<u>39</u>	<u>22</u>	<u>1</u>	<u>14</u>	<u>39</u>
<u>Mianyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>32</u>	<u>2</u>	<u>17</u>	<u>43</u>	<u>37</u>	<u>2</u>	<u>21</u>	<u>51</u>	<u>28</u>	<u>2</u>	<u>15</u>	<u>77</u>
<u>Nanchong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>11</u>	<u>31</u>	<u>29</u>	<u>1</u>	<u>18</u>	<u>36</u>	<u>33</u>	<u>2</u>	<u>21</u>	<u>62</u>
<u>Panzhihua</u>	<u>Sichuan</u>	<u>NEC</u>	<u>25</u>	<u>1</u>	<u>21</u>	<u>35</u>	<u>27</u>	<u>1</u>	<u>23</u>	<u>35</u>	<u>24</u>	<u>1</u>	<u>18</u>	<u>30</u>
<u>Suining</u>	<u>Sichuan</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>4</u>	<u>19</u>	<u>16</u>	<u>1</u>	<u>7</u>	<u>27</u>	<u>14</u>	<u>1</u>	<u>5</u>	<u>23</u>
<u>Ya'an</u>	<u>Sichuan</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>16</u>	<u>35</u>	<u>21</u>	<u>1</u>	<u>16</u>	<u>23</u>	<u>24</u>	<u>1</u>	<u>16</u>	<u>30</u>
<u>Ziyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>9</u>	<u>23</u>	<u>20</u>	<u>1</u>	<u>15</u>	<u>29</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>23</u>
<u>Zigong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>15</u>	<u>34</u>	<u>28</u>	<u>2</u>	<u>16</u>	<u>38</u>	<u>23</u>	<u>1</u>	<u>17</u>	<u>44</u>
<u>Baoshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>14</u>	<u>0</u>	<u>10</u>	<u>18</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>19</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>23</u>
<u>Chuxiong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>22</u>	<u>23</u>	<u>2</u>	<u>7</u>	<u>34</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>22</u>
<u>Dali</u>	<u>Yunnan</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>19</u>	<u>12</u>	<u>1</u>	<u>4</u>	<u>20</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>16</u>
<u>Dehong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>10</u>	<u>0</u>	<u>7</u>	<u>13</u>	<u>10</u>	<u>0</u>	<u>8</u>	<u>13</u>	<u>14</u>	<u>0</u>	<u>9</u>	<u>18</u>
<u>Honghe</u>	<u>Yunnan</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>19</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>20</u>	<u>8</u>	<u>1</u>	<u>3</u>	<u>15</u>
<u>Kunming</u>	<u>Yunnan</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>27</u>	<u>28</u>	<u>2</u>	<u>16</u>	<u>39</u>	<u>23</u>	<u>1</u>	<u>16</u>	<u>32</u>
<u>Lijiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>11</u>	<u>0</u>	<u>8</u>	<u>15</u>	<u>13</u>	<u>0</u>	<u>11</u>	<u>17</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>15</u>
<u>Lincang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>10</u>	<u>0</u>	<u>7</u>	<u>15</u>	<u>11</u>	<u>1</u>	<u>9</u>	<u>17</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>15</u>
<u>Nujiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>11</u>	<u>9</u>	<u>0</u>	<u>7</u>	<u>11</u>	<u>9</u>	<u>0</u>	<u>7</u>	<u>12</u>
<u>Qujing</u>	<u>Yunnan</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>24</u>	<u>20</u>	<u>1</u>	<u>15</u>	<u>31</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>26</u>
<u>Wenshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>19</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>25</u>	<u>11</u>	<u>0</u>	<u>7</u>	<u>17</u>
<u>Xishuangbanna</u>	<u>Yunnan</u>	<u>NEC</u>	<u>9</u>	<u>0</u>	<u>7</u>	<u>14</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>14</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>18</u>
<u>Tuxi</u>	<u>Yunnan</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>21</u>	<u>19</u>	<u>1</u>	<u>14</u>	<u>25</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>20</u>
<u>Zhaotong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>26</u>	<u>22</u>	<u>1</u>	<u>12</u>	<u>30</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>23</u>
<u>Anshun</u>	<u>Guizhou</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>24</u>	<u>15</u>	<u>2</u>	<u>5</u>	<u>29</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>21</u>
<u>Bijie</u>	<u>Guizhou</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>11</u>	<u>36</u>	<u>27</u>	<u>2</u>	<u>18</u>	<u>39</u>	<u>22</u>	<u>1</u>	<u>10</u>	<u>38</u>

<u>Guizhou</u>	<u>Guizhou</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>32</u>	<u>29</u>	<u>2</u>	<u>16</u>	<u>44</u>	<u>22</u>	<u>1</u>	<u>15</u>	<u>40</u>
<u>Liupanshui</u>	<u>Guizhou</u>	<u>NEC</u>	<u>23</u>	<u>1</u>	<u>16</u>	<u>40</u>	<u>31</u>	<u>2</u>	<u>19</u>	<u>49</u>	<u>23</u>	<u>1</u>	<u>18</u>	<u>35</u>
<u>Tongren</u>	<u>Guizhou</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>18</u>	<u>18</u>	<u>1</u>	<u>13</u>	<u>21</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>26</u>
<u>Zunyi</u>	<u>Guizhou</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>16</u>	<u>27</u>	<u>32</u>	<u>2</u>	<u>15</u>	<u>42</u>	<u>25</u>	<u>1</u>	<u>16</u>	<u>36</u>
<u>Baise</u>	<u>Guangxi</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>19</u>	<u>9</u>	<u>1</u>	<u>3</u>	<u>18</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>16</u>
<u>Beihai</u>	<u>Guangxi</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>16</u>	<u>9</u>	<u>1</u>	<u>6</u>	<u>14</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>18</u>
<u>Chongzuo</u>	<u>Guangxi</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>6</u>	<u>24</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>25</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>24</u>
<u>Fangchenggang</u>	<u>Guangxi</u>	<u>NEC</u>	<u>11</u>	<u>0</u>	<u>7</u>	<u>14</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>16</u>	<u>12</u>	<u>0</u>	<u>7</u>	<u>17</u>
<u>Guigang</u>	<u>Guangxi</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>25</u>	<u>20</u>	<u>1</u>	<u>12</u>	<u>27</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>29</u>
<u>Guilin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>20</u>	<u>17</u>	<u>1</u>	<u>13</u>	<u>22</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>24</u>
<u>Hechi</u>	<u>Guangxi</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>9</u>	<u>21</u>	<u>15</u>	<u>1</u>	<u>9</u>	<u>21</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>34</u>
<u>Hezhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>9</u>	<u>0</u>	<u>5</u>	<u>13</u>	<u>8</u>	<u>1</u>	<u>5</u>	<u>14</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>13</u>
<u>Laibin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>20</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>26</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>27</u>
<u>Liuzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>13</u>	<u>30</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>27</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>30</u>
<u>Nanning</u>	<u>Guangxi</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>15</u>	<u>45</u>	<u>28</u>	<u>2</u>	<u>17</u>	<u>45</u>	<u>25</u>	<u>1</u>	<u>17</u>	<u>41</u>
<u>Qinzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>22</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>24</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>26</u>
<u>Wuzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>14</u>	<u>24</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>28</u>	<u>18</u>	<u>1</u>	<u>11</u>	<u>27</u>
<u>Yulin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>9</u>	<u>25</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>27</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>25</u>
<u>Golog</u>	<u>Qinghai</u>	<u>NEC</u>	<u>32</u>	<u>1</u>	<u>22</u>	<u>40</u>	<u>38</u>	<u>1</u>	<u>30</u>	<u>49</u>	<u>30</u>	<u>1</u>	<u>21</u>	<u>45</u>
<u>Haidong</u>	<u>Qinghai</u>	<u>NEC</u>	<u>31</u>	<u>2</u>	<u>19</u>	<u>45</u>	<u>37</u>	<u>2</u>	<u>24</u>	<u>60</u>	<u>35</u>	<u>1</u>	<u>24</u>	<u>47</u>
<u>Xining</u>	<u>Qinghai</u>	<u>NEC</u>	<u>28</u>	<u>1</u>	<u>17</u>	<u>38</u>	<u>28</u>	<u>1</u>	<u>20</u>	<u>42</u>	<u>31</u>	<u>1</u>	<u>19</u>	<u>47</u>
<u>Ali</u>	<u>Tibet</u>	<u>NEC</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>5</u>	<u>4</u>	<u>0</u>	<u>3</u>	<u>7</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>11</u>
<u>Qamdo</u>	<u>Tibet</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>32</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>24</u>	<u>16</u>	<u>1</u>	<u>6</u>	<u>27</u>
<u>Lhasa</u>	<u>Tibet</u>	<u>NEC</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>32</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>23</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>29</u>
<u>Nyingchi</u>	<u>Tibet</u>	<u>NEC</u>	<u>6</u>	<u>0</u>	<u>3</u>	<u>8</u>	<u>6</u>	<u>0</u>	<u>4</u>	<u>8</u>	<u>6</u>	<u>0</u>	<u>3</u>	<u>14</u>
<u>Naqu</u>	<u>Tibet</u>	<u>NEC</u>	<u>12</u>	<u>0</u>	<u>9</u>	<u>16</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>19</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>26</u>

<u>Shigatse</u>	<u>Tibet</u>	<u>NEC</u>	<u>15</u>	<u>3</u>	<u>7</u>	<u>52</u>	<u>11</u>	<u>0</u>	<u>9</u>	<u>14</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>18</u>
<u>Lhoka</u>	<u>Tibet</u>	<u>NEC</u>	<u>8</u>	<u>0</u>	<u>3</u>	<u>10</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>14</u>	<u>8</u>	<u>0</u>	<u>4</u>	<u>13</u>

163 ^a EC and NEC denote emission control and non-emission control regions, respectively, of which the latter means regions without implementation
 164 of emission control measures.

165 ^b The pre-Parade Blue, Parade Blue, and post-Parade Blue periods indicate the periods of 1-19 August, 20 August-3 September, and 4-30
 166 September 2015, respectively.

167

168

169

170

171 **Table S5.** Summary statistical of daily average NO₂-concentrations ($\mu\text{g m}^{-3}$) during the pre-Parade Blue and Parade Blue periods in the 291 cities
 172 across China:

City	Province	Region	The Pre Parade Blue period				The Parade Blue period				Reduction or Increase
			Mean	Standard Error	Min	Max	Mean	Standard Error	Min	Max	
Beijing	Municipality	NC	34	1	26	44	21	1	17	24	-39
Tianjing	Municipality	NC	26	2	14	45	21	2	12	33	-19
Baoding	Hebei	NC	34	2	23	51	25	2	15	40	-26
Cangzhou	Hebei	NC	34	1	26	44	21	1	17	24	-39
Chengde	Hebei	NC	27	1	21	35	21	1	14	26	-23
Handan	Hebei	NC	38	3	22	70	36	3	20	54	-5
Hengshui	Hebei	NC	29	2	18	59	27	1	18	33	-8
Langfang	Hebei	NC	42	1	30	55	36	2	21	55	-15

Qinhuangdao	Hebei	NC	41	2	17	53	35	3	18	52	16
Shijiazhuang	Hebei	NC	29	2	15	56	22	3	7	37	23
Tangshan	Hebei	NC	44	2	32	76	45	4	10	74	+
Xingtai	Hebei	NC	50	2	34	63	38	4	14	74	24
Zhangjiakou	Hebei	NC	17	+	11	24	24	2	14	32	47
Changzhi	Shanxi	NC	25	2	10	41	31	+	22	41	25
Datong	Shanxi	NC	19	+	9	30	16	+	11	23	16
Jincheng	Shanxi	NC	29	2	10	46	29	2	15	38	2
Jinzhong	Shanxi	NC	22	+	15	31	20	+	12	29	12
Linfen	Shanxi	NC	20	+	14	25	19	+	12	32	3
Lvliang	Shanxi	NC	22	+	14	34	18	+	13	23	18
Shuozhou	Shanxi	NC	31	2	13	45	31	+	20	39	+
Taiyuan	Shanxi	NC	30	+	22	41	28	2	20	41	5
Xinzhou	Shanxi	NC	33	2	16	48	29	2	16	37	14
Yangquan	Shanxi	NC	24	+	12	32	23	2	11	32	5
Yuncheng	Shanxi	NC	13	2	4	30	20	2	10	33	56
Binzhou	Shandong	NC	27	2	16	49	28	3	15	55	4
Dezhou	Shandong	NC	29	2	19	46	30	2	16	42	2
Dongying	Shandong	NC	27	2	9	43	22	3	8	40	18
Jinan	Shandong	NC	35	2	20	49	41	2	26	54	16
Jining	Shandong	NC	31	2	13	50	37	3	24	67	22
Laiwu	Shandong	NC	29	2	12	47	38	2	23	54	31
Liaocheng	Shandong	NC	29	2	18	43	27	3	10	44	6
Linyi	Shandong	NC	33	2	16	54	39	3	27	62	21
Qingdao	Shandong	NC	19	+	11	35	28	+	16	36	43
Rizhao	Shandong	NC	20	2	5	39	28	3	16	44	38

Tai'an	Shandong	NC	30	2	17	47	38	2	22	50	27
Weihai	Shandong	NC	15	+	6	28	14	+	7	22	5
Weifang	Shandong	NC	25	2	14	41	33	2	22	48	33
Yantai	Shandong	NC	23	+	12	33	27	2	17	42	19
Zaozhuang	Shandong	NC	26	2	15	42	29	+	19	38	12
Zibo	Shandong	NC	52	2	31	68	55	3	38	70	6
Alxa League	Inner Mongolia	NC	7	0	5	10	8	+	4	11	18
Bayannur	Inner Mongolia	NC	19	+	14	24	22	2	13	39	14
Baotou	Inner Mongolia	NC	34	2	20	49	33	2	18	43	2
Chifeng	Inner Mongolia	NC	16	+	10	27	17	0	14	20	3
Ordos	Inner Mongolia	NC	19	+	9	30	18	+	12	26	5
Hohhot	Inner Mongolia	NC	32	+	21	43	32	2	18	42	+
Hulun Buir	Inner Mongolia	NC	20	2	7	37	19	1	11	27	4
Tongliao	Inner Mongolia	NC	16	+	10	25	13	+	8	20	20
Wuhai	Inner Mongolia	NC	17	+	11	24	17	+	11	24	1
Hinggan League	Inner Mongolia	NC	14	+	6	22	10	+	7	16	25
Anyang	Henan	NC	30	2	18	47	32	2	20	42	5
Hebi	Henan	NC	27	3	9	48	24	2	16	39	11
Jiaozuo	Henan	NC	29	2	21	47	30	2	17	40	6
Kaifeng	Henan	NC	25	2	15	49	24	2	14	36	2
LuoYang	Henan	NC	23	+	15	41	25	2	13	33	8
Luohe	Henan	NC	18	2	9	33	23	2	12	35	31
Nanyang	Henan	NC	16	+	8	25	21	1	14	28	33
Pingdingshan	Henan	NC	27	2	14	41	33	2	23	43	19
Sanmenxia	Henan	NC	23	2	15	43	23	3	14	49	1
Shangqiu	Henan	NC	16	+	8	31	21	2	11	39	29

Xinyang	Henan	NC	19	+	12	30	28	+	22	32	46
Zhengzhou	Henan	NC	39	3	23	73	45	3	24	69	15
Zhoukou	Henan	NC	11	+	7	17	13	+	8	19	11
Zhumadian	Henan	NC	22	2	8	34	24	+	16	32	11
Anshan	Liaoning	NE	18	2	11	33	27	+	16	31	49
Benxi	Liaoning	NE	19	+	11	30	25	+	14	34	33
Chaoyang	Liaoning	NE	12	+	7	16	13	+	8	17	2
Dalian	Liaoning	NE	20	+	14	25	23	+	17	31	18
Dandong	Liaoning	NE	29	8	+	108	15	+	7	20	49
Fushun	Liaoning	NE	15	+	10	22	18	+	8	24	20
Fuxin	Liaoning	NE	28	+	18	38	25	+	15	35	8
Huludao	Liaoning	NE	23	2	11	44	28	2	15	41	20
Jinzhou	Liaoning	NE	26	+	18	36	28	1	21	36	6
Liaoyang	Liaoning	NE	15	+	6	31	26	+	15	32	77
Panjin	Liaoning	NE	13	2	4	32	24	+	17	32	80
Shenyang	Liaoning	NE	31	2	20	49	35	2	27	48	11
Tieling	Liaoning	NE	20	+	13	26	23	+	14	29	19
Wafangdian	Liaoning	NE	17	+	11	24	21	+	15	33	27
Yingkou	Liaoning	NE	16	+	8	27	22	+	15	33	37
Baicheng	Jilin	NE	12	+	8	21	9	+	4	13	27
Baishan	Jilin	NE	14	0	9	18	16	+	12	19	16
Changchun	Jilin	NE	28	2	17	44	33	2	22	45	19
Jilin	Jilin	NE	20	+	13	28	24	+	16	31	18
Liaoyuan	Jilin	NE	15	2	3	30	15	+	8	24	1
Siping	Jilin	NE	17	2	4	33	23	3	13	62	40
Songyuan	Jilin	NE	16	+	9	24	14	+	6	22	14

Daqing	Heilongjiang	NE	16	+	12	23	16	+	11	24	0
Daxinganling	Heilongjiang	NE	11	+	8	15	15	+	10	20	44
Harbin	Heilongjiang	NE	31	2	21	51	31	2	20	42	2
Hegang	Heilongjiang	NE	6	+	3	10	4	0	2	6	39
Heihe	Heilongjiang	NE	11	+	5	15	9	+	7	14	18
Jixi	Heilongjiang	NE	16	+	11	21	13	+	8	19	19
Jiamusi	Heilongjiang	NE	18	+	8	27	15	2	8	31	13
Mudanjiang	Heilongjiang	NE	24	+	16	33	19	+	12	25	21
Qitaihe	Heilongjiang	NE	12	0	10	16	11	+	7	15	12
Qiqihar	Heilongjiang	NE	15	+	8	19	11	+	7	16	24
Shuangyashan	Heilongjiang	NE	15	0	12	19	15	+	9	18	2
Suihua	Heilongjiang	NE	20	2	10	41	15	+	10	24	26
Ankang	Shaanxi	NW	6	+	3	11	7	+	3	11	20
Baoji	Shaanxi	NW	23	+	16	34	28	+	16	33	19
Hanzhong	Shaanxi	NW	15	+	9	22	22	+	13	27	46
Shangluo	Shaanxi	NW	15	+	10	22	19	+	13	24	23
Tongchuan	Shaanxi	NW	24	2	15	47	26	+	17	32	10
Weinan	Shaanxi	NW	29	+	22	43	39	2	29	54	31
Xi'an	Shaanxi	NW	36	2	24	55	44	2	29	57	21
Xianyang	Shaanxi	NW	23	+	13	36	27	+	19	34	20
Yan'an	Shaanxi	NW	35	+	23	40	40	+	33	53	15
Yulin	Shaanxi	NW	27	2	12	43	33	3	14	56	21
Baiyings	Gansu	NW	25	2	12	40	28	3	4	42	11
Dingxi	Gansu	NW	20	2	9	40	20	+	12	30	3
Gannan	Gansu	NW	17	2	8	40	14	+	10	19	15
Jiayuguan	Gansu	NW	25	+	13	37	19	+	13	29	23

Jiuquan	Gansu	NW	23	2	8	37	25	2	12	38	9
Lanzhou	Gansu	NW	38	2	20	53	42	3	25	59	10
Linxia	Gansu	NW	26	2	12	49	31	2	20	49	16
Pingliang	Gansu	NW	41	1	28	50	50	2	38	62	23
Qingyang	Gansu	NW	10	1	5	16	14	1	9	20	46
Tianshui	Gansu	NW	16	1	10	22	14	1	6	19	12
Wuwei	Gansu	NW	22	1	13	36	23	2	14	35	5
Zhangye	Gansu	NW	18	1	10	26	15	1	8	21	19
Guyuan	Ningxia	NW	18	2	9	30	22	2	11	31	17
Shizuishan	Ningxia	NW	17	1	12	33	20	1	13	30	13
Wuzhong	Ningxia	NW	17	1	9	29	18	2	5	28	11
Yinchuan	Ningxia	NW	27	2	13	48	29	3	16	45	7
Zhongwei	Ningxia	NW	13	1	7	18	17	1	9	22	36
Aksu	Sinkiang	NW	23	2	12	42	21	2	11	38	9
Hami	Sinkiang	NW	11	1	4	21	9	1	4	19	16
Hotan	Sinkiang	NW	21	2	11	35	18	2	10	29	16
Kashgar	Sinkiang	NW	22	2	10	36	19	2	9	36	13
Karamay	Sinkiang	NW	15	1	5	28	14	1	6	28	8
Kizilsu	Sinkiang	NW	9	1	1	19	9	1	6	15	4
Shihezi	Sinkiang	NW	28	3	7	64	22	3	6	38	21
Urumchi	Sinkiang	NW	41	2	20	58	38	2	24	50	9
Wujiachu	Sinkiang	NW	30	3	9	53	24	3	10	49	20
Yili	Sinkiang	NW	25	2	11	34	24	2	12	34	6
Ezhou	Henan	SE	13	1	8	24	19	1	11	30	49
Huanggang	Henan	SE	14	2	4	23	14	1	6	26	2
Jingmen	Henan	SE	18	1	12	38	27	2	17	38	45

Shiyan	Hubei	SE	12	+	8	19	13	0	10	16	3
Wuhan	Hubei	SE	27	2	11	52	41	4	18	64	50
Xianning	Hubei	SE	12	0	9	16	15	+	11	19	28
Xiangyang	Hubei	SE	17	+	10	34	23	+	16	31	35
Xiaogan	Hubei	SE	5	+	2	12	9	+	4	20	91
Yichang	Hubei	SE	24	+	19	32	26	+	23	32	11
Anqing	Anhui	SE	21	2	12	37	21	2	14	46	2
Bengbu	Anhui	SE	24	2	11	40	32	2	20	42	29
Bozhou	Anhui	SE	33	+	24	45	46	2	35	72	41
Chuzhou	Anhui	SE	29	2	18	41	22	+	11	30	24
Fuyang	Anhui	SE	28	+	21	46	43	3	30	64	52
Hefei	Anhui	SE	24	2	14	38	31	3	19	58	27
Huainan	Anhui	SE	19	+	14	25	24	1	18	32	24
Huainan	Anhui	SE	18	+	11	29	20	+	13	26	11
Huangshan	Anhui	SE	9	0	8	10	9	0	8	10	0
Lu'an	Anhui	SE	15	+	8	27	15	+	9	21	6
Ma'anshan	Anhui	SE	20	+	10	30	21	+	15	28	5
Suzhou	Anhui	SE	18	0	15	21	19	+	16	26	3
Tongling	Anhui	SE	25	2	15	35	31	2	18	47	26
Wuhu	Anhui	SE	38	+	30	51	38	2	29	49	2
Changzhou	Jiangsu	SE	33	3	16	70	34	3	15	51	2
Huaian	Jiangsu	SE	12	+	3	22	15	2	5	30	19
Lianyungang	Jiangsu	SE	17	+	9	27	24	1	16	32	41
Nanjing	Jiangsu	SE	36	2	19	54	39	3	25	61	10
Nantong	Jiangsu	SE	24	3	7	49	25	3	8	50	4
Suzhou	Jiangsu	SE	31	2	18	46	42	2	32	57	35

Suqian	Jiangsu	SE	26	2	8	38	27	+	20	39	3
Taizhou	Jiangsu	SE	19	2	8	33	20	+	14	34	5
Wuxi	Jiangsu	SE	27	2	15	51	34	+	27	48	24
Xuzhou	Jiangsu	SE	26	2	12	43	33	2	21	48	26
Yanchen	Jiangsu	SE	17	+	8	26	22	+	14	32	29
Yangzhou	Jiangsu	SE	23	2	7	48	18	+	12	28	24
Zhenjiang	Jiangsu	SE	27	2	16	44	35	2	18	49	27
Shanghai	Municipality	SE	21	2	9	33	36	3	19	54	69
Hangzhou	Zhejiang	SE	29	2	11	48	33	2	20	45	16
Huzhou	Zhejiang	SE	25	2	9	40	32	2	22	49	27
Jiaxing	Zhejiang	SE	19	2	6	30	29	2	19	51	57
Jinhua	Zhejiang	SE	20	+	9	31	25	2	8	38	23
Lishui	Zhejiang	SE	14	+	5	20	14	1	10	19	3
Ningbo	Zhejiang	SE	21	2	8	38	29	2	14	42	39
Quzhou	Zhejiang	SE	20	+	9	31	26	2	8	41	32
Shaoxing	Zhejiang	SE	26	2	11	39	38	+	28	49	45
Taizhou	Zhejiang	SE	11	+	+	20	15	2	7	25	36
Wenjiang	Zhejiang	SE	25	3	2	44	29	3	10	45	18
Zhoushan	Zhejiang	SE	11	+	3	24	14	+	5	20	27
Fuzhou	Jiangxi	SE	10	+	5	14	12	1	6	19	17
Ganzhou	Jiangxi	SE	13	+	7	18	15	+	10	20	15
Ji'an	Jiangxi	SE	9	+	5	18	14	1	8	22	56
Jingdezhen	Jiangxi	SE	12	+	5	32	12	1	6	18	2
Jiujiang	Jiangxi	SE	15	+	8	25	19	1	12	29	25
Nanchang	Jiangxi	SE	20	2	8	35	21	2	14	40	4
Pingxiang	Jiangxi	SE	10	+	5	15	15	+	10	18	57

Shangrao	Jiangxi	SE	14	+	8	21	18	+	12	28	25
Xinyu	Jiangxi	SE	11	+	5	16	12	+	7	18	2
Yichun	Jiangxi	SE	13	0	9	17	14	+	10	19	4
Yingtan	Jiangxi	SE	10	0	6	14	13	+	9	18	36
Changsha	Hunan	SE	19	+	9	31	27	+	16	33	38
Changde	Hunan	SE	13	+	6	24	11	+	8	16	17
Chenzhou	Hunan	SE	18	+	9	26	20	+	12	25	11
Huaihua	Hunan	SE	8	+	4	14	14	+	5	22	66
Loudi	Hunan	SE	11	+	6	16	12	+	8	18	12
Xiangtan	Hunan	SE	24	+	13	34	30	2	17	42	26
Yiyang	Hunan	SE	15	+	9	22	18	+	12	27	17
Yongzhou	Hunan	SE	19	+	14	25	21	+	14	28	12
Zhangjajie	Hunan	SE	18	+	11	29	22	1	18	26	23
Zhuzhou	Hunan	SE	17	+	12	25	25	+	18	30	45
Dongguan	Guangdong	SE	31	2	20	45	31	2	24	49	1
Foshan	Guangdong	SE	32	2	20	44	41	+	33	49	27
Guangzhou	Guangdong	SE	35	+	23	47	38	2	28	48	6
Heyuan	Guangdong	SE	18	+	10	27	19	+	11	26	7
Huizhou	Guangdong	SE	19	+	10	27	17	+	13	25	10
Jiangmen	Guangdong	SE	14	+	9	20	25	1	19	34	82
Maoming	Guangdong	SE	10	+	6	14	12	+	9	15	17
Meizhou	Guangdong	SE	15	+	10	19	16	+	11	25	4
Qingyuan	Guangdong	SE	33	+	22	44	24	2	14	40	26
Shantou	Guangdong	SE	16	+	10	26	16	+	12	19	2
Shaoguan	Guangdong	SE	19	+	12	25	15	+	10	18	22
Shenzhen	Guangdong	SE	34	2	22	47	33	2	24	48	4

Zhujiang	Guangdong	SE	14	+	6	20	16	+	8	22	19
Zhaoqing	Guangdong	SE	20	+	13	30	26	2	12	41	31
Zhongshan	Guangdong	SE	15	+	8	31	24	2	14	33	61
Zhuhai	Guangdong	SE	17	+	10	28	25	+	19	31	46
Fuzhou	Fujian	SE	21	+	4	30	22	2	8	36	5
Longyan	Fujian	SE	17	+	9	28	17	+	13	20	2
Nanping	Fujian	SE	10	+	7	15	9	+	6	13	10
Ningde	Fujian	SE	13	+	3	22	14	+	8	19	6
Putian	Fujian	SE	15	+	3	23	13	+	5	19	16
Quanzhou	Fujian	SE	18	2	2	27	14	+	6	23	22
Sanming	Fujian	SE	22	+	12	29	20	+	11	31	8
Xiamen	Fujian	SE	26	+	15	41	22	+	17	28	15
Zhangzhou	Fujian	SE	18	+	10	22	19	1	16	24	10
Haikou	Hainan	SE	13	+	8	21	16	+	12	21	23
Sanya	Hainan	SE	11	+	7	19	14	+	9	20	30
Chongqing	Municipality	SW	29	2	20	48	46	2	35	57	55
Bazhong	Sichuan	SW	18	+	11	23	22	+	17	27	24
Chengdu	Sichuan	SW	39	3	15	63	54	4	25	81	37
Dazhou	Sichuan	SW	31	+	21	38	35	+	26	45	15
Deyang	Sichuan	SW	25	2	9	39	30	2	17	48	22
Guangyuan	Sichuan	SW	24	+	19	39	26	2	18	40	9
Leshan	Sichuan	SW	23	+	15	35	28	2	17	42	20
Luzhou	Sichuan	SW	20	+	11	30	28	2	12	41	39
Meishan	Sichuan	SW	19	+	10	34	25	2	15	39	33
Mianyang	Sichuan	SW	32	2	17	43	37	2	21	51	17
Nanchong	Sichuan	SW	20	2	11	31	29	+	18	36	43

Panzhihua	Sichuan	SW	25-	+	21	35-	27-	+	23-	35-	7-
Suining	Sichuan	SW	11-	+	4	19-	16-	+	7-	27-	43-
Ya'an	Sichuan	SW	22-	+	16	35-	21-	+	16-	23-	6-
Ziyang	Sichuan	SW	13-	+	9	23-	20-	+	15-	29-	48-
Zigong	Sichuan	SW	22-	+	15	34-	28-	2-	16-	38-	27-
Baoshan	Yunnan	SW	14-	0-	10	18-	15-	+	10-	19-	9-
Chuxiong	Yunnan	SW	16-	+	8	22-	23-	2-	7-	34-	39-
Dali	Yunnan	SW	11-	+	6	19-	12-	+	4-	20-	10-
Dehong	Yunnan	SW	10-	0-	7	13-	10-	0-	8-	13-	5-
Honghe	Yunnan	SW	10-	+	5	19-	14-	+	10-	20-	44-
Kunming	Yunnan	SW	20-	+	13	27-	28-	2-	16-	39-	36-
Lijiang	Yunnan	SW	11-	0-	8	15-	13-	0-	11-	17-	17-
Lineang	Yunnan	SW	10-	0-	7	15-	11-	1-	9-	17-	13-
Nujiang	Yunnan	SW	7-	0-	5	11-	9-	0-	7-	11-	21-
Qujing	Yunnan	SW	17-	+	11	24-	20-	+	15-	31-	19-
Wenshan	Yunnan	SW	12-	+	7	19-	17-	+	11-	25-	48-
Xishuangbanna	Yunnan	SW	9-	0-	7	14-	11-	+	7-	14-	12-
Tuxi	Yunnan	SW	15-	+	8	21-	19-	+	14-	25-	32-
Zhaotong	Yunnan	SW	17-	+	11	26-	22-	+	12-	30-	28-
Anshun	Guizhou	SW	9-	+	4	24-	15-	2-	5-	29-	65-
Bijie	Guizhou	SW	23-	2-	11	36-	27-	2-	18-	39-	19-
Guiyang	Guizhou	SW	20-	+	13	32-	29-	2-	16-	44-	40-
Liupanshui	Guizhou	SW	23-	+	16	40-	31-	2-	19-	49-	35-
Tongren	Guizhou	SW	14-	+	9	18-	18-	+	13-	21-	32-
Zunyi	Guizhou	SW	20-	+	16	27-	32-	2-	15-	42-	55-
Baise	Guangxi	SW	12-	+	8	19-	9-	+	3-	18-	24-

Beihai	Guangxi	SW	10	+	6	16	9	+	6	14	9
Chongzuo	Guangxi	SW	13	+	6	24	16	+	8	25	17
Fangchenggang	Guangxi	SW	11	0	7	14	12	+	8	16	6
Guigang	Guangxi	SW	20	+	13	25	20	+	12	27	0
Guilin	Guangxi	SW	15	+	10	20	17	+	13	22	9
Hechi	Guangxi	SW	13	+	9	21	15	+	9	21	14
Hezhou	Guangxi	SW	9	0	5	13	8	+	5	14	5
Laibin	Guangxi	SW	14	+	8	20	16	+	8	26	11
Liuzhou	Guangxi	SW	19	+	13	30	18	+	9	27	8
Nanning	Guangxi	SW	25	2	15	45	28	2	17	45	11
Qinzhou	Guangxi	SW	15	+	8	22	16	+	11	24	9
Wuzhou	Guangxi	SW	19	+	14	24	17	+	11	28	11
Yulin	Guangxi	SW	15	+	9	25	17	+	10	27	11
Geleg	Qinghai	TP	32	+	22	40	38	+	30	49	18
Haidong	Qinghai	TP	31	2	19	45	37	2	24	60	20
Xining	Qinghai	TP	28	+	17	38	28	+	20	42	2
Ali	Tibet	TP	3	0	2	5	4	0	3	7	37
Qamdo	Tibet	TP	16	+	11	32	14	+	10	24	12
Lhasa	Tibet	TP	20	+	13	32	18	+	12	23	10
Nyingchi	Tibet	TP	6	0	3	8	6	0	4	8	10
Naqu	Tibet	TP	12	0	9	16	14	+	10	19	21
Shigatse	Tibet	TP	15	3	7	52	11	0	9	14	30
Lhoka	Tibet	TP	8	0	3	10	—	9	+	5	14

^aNC, NE, NW, SE, SW, TP represent north China, northeast China, northwest China, southeast China, southwest China, and the Tibetan Plateau, respectively.

175 | ^bNegative values with red color mean significant ($p < 0.05$ or 0.01) reduction, and positive values mean increase.

176 |

177 |

178 |

179 |

180 | **Table S5.** Summary of daily average SO_2 concentrations ($\mu\text{g m}^{-3}$) during the pre-Parade Blue, Parade Blue and post-Parade Blue periods in the

181 | 291 cities across China.

City	Province	Region ^a	Pre-Parade Blue period ^b				Parade Blue period ^b				Post-Parade Blue period ^b			
			Mean	SE	Min	Max	Mean	SE	Min	Max	Mean	SE	Min	Max
Beijing	Municipality	EC	3	0	2	7	2	0	2	3	5	1	2	15
Tianjing	Municipality	EC	10	1	4	16	10	1	4	23	13	1	4	27
Baoding	Hebei	EC	17	1	11	25	10	1	6	16	15	1	8	27
Cangzhou	Hebei	EC	3	0	2	7	2	0	2	3	32	3	11	80
Chengde	Hebei	EC	9	1	5	18	6	1	3	18	8	1	3	20
Handan	Hebei	EC	28	2	16	48	34	5	9	62	25	2	8	58
Hengshui	Hebei	EC	17	1	10	23	12	1	3	20	22	2	7	52
Langfang	Hebei	EC	9	1	4	19	4	0	2	8	10	2	2	40
Qinhuangdao	Hebei	EC	32	3	17	48	18	2	10	46	18	2	10	46
Shijiazhuang	Hebei	EC	19	2	7	39	13	1	6	19	30	3	7	52
Tangshan	Hebei	EC	29	3	12	64	29	4	13	68	39	3	16	73
Xingtai	Hebei	EC	25	4	8	74	18	4	3	45	32	4	4	71
Zhangjiakou	Hebei	EC	12	1	7	19	12	1	9	22	12	1	5	24
Changzhi	Shanxi	EC	32	2	18	59	28	3	10	50	25	2	9	51

<u>Datong</u>	<u>Shanxi</u>	<u>EC</u>	<u>20</u>	<u>2</u>	<u>12</u>	<u>37</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>28</u>	<u>22</u>	<u>2</u>	<u>9</u>	<u>58</u>
<u>Jincheng</u>	<u>Shanxi</u>	<u>EC</u>	<u>29</u>	<u>2</u>	<u>14</u>	<u>46</u>	<u>25</u>	<u>2</u>	<u>12</u>	<u>38</u>	<u>31</u>	<u>3</u>	<u>9</u>	<u>65</u>
<u>Jinzhong</u>	<u>Shanxi</u>	<u>EC</u>	<u>13</u>	<u>3</u>	<u>3</u>	<u>37</u>	<u>16</u>	<u>2</u>	<u>7</u>	<u>29</u>	<u>31</u>	<u>4</u>	<u>6</u>	<u>74</u>
<u>Linfen</u>	<u>Shanxi</u>	<u>EC</u>	<u>17</u>	<u>1</u>	<u>7</u>	<u>32</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>23</u>	<u>16</u>	<u>2</u>	<u>3</u>	<u>37</u>
<u>Lvliang</u>	<u>Shanxi</u>	<u>EC</u>	<u>43</u>	<u>2</u>	<u>31</u>	<u>56</u>	<u>24</u>	<u>2</u>	<u>13</u>	<u>42</u>	<u>33</u>	<u>3</u>	<u>11</u>	<u>75</u>
<u>Shuozhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>39</u>	<u>3</u>	<u>18</u>	<u>60</u>	<u>37</u>	<u>3</u>	<u>17</u>	<u>52</u>	<u>27</u>	<u>2</u>	<u>11</u>	<u>45</u>
<u>Taiyuan</u>	<u>Shanxi</u>	<u>EC</u>	<u>21</u>	<u>2</u>	<u>9</u>	<u>43</u>	<u>18</u>	<u>1</u>	<u>11</u>	<u>24</u>	<u>25</u>	<u>2</u>	<u>10</u>	<u>55</u>
<u>Xinzhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>41</u>	<u>3</u>	<u>23</u>	<u>58</u>	<u>32</u>	<u>1</u>	<u>21</u>	<u>39</u>	<u>36</u>	<u>3</u>	<u>13</u>	<u>69</u>
<u>Yangquan</u>	<u>Shanxi</u>	<u>EC</u>	<u>24</u>	<u>2</u>	<u>7</u>	<u>36</u>	<u>21</u>	<u>2</u>	<u>7</u>	<u>35</u>	<u>30</u>	<u>3</u>	<u>7</u>	<u>79</u>
<u>Yuncheng</u>	<u>Shanxi</u>	<u>EC</u>	<u>19</u>	<u>1</u>	<u>9</u>	<u>34</u>	<u>45</u>	<u>6</u>	<u>20</u>	<u>101</u>	<u>43</u>	<u>4</u>	<u>15</u>	<u>119</u>
<u>Binzhou</u>	<u>Shandong</u>	<u>EC</u>	<u>30</u>	<u>4</u>	<u>9</u>	<u>87</u>	<u>26</u>	<u>3</u>	<u>11</u>	<u>60</u>	<u>38</u>	<u>3</u>	<u>14</u>	<u>89</u>
<u>Dezhou</u>	<u>Shandong</u>	<u>EC</u>	<u>18</u>	<u>2</u>	<u>5</u>	<u>35</u>	<u>21</u>	<u>2</u>	<u>11</u>	<u>41</u>	<u>30</u>	<u>3</u>	<u>11</u>	<u>70</u>
<u>Dongying</u>	<u>Shandong</u>	<u>EC</u>	<u>45</u>	<u>3</u>	<u>21</u>	<u>81</u>	<u>31</u>	<u>3</u>	<u>16</u>	<u>57</u>	<u>33</u>	<u>3</u>	<u>10</u>	<u>69</u>
<u>Jinan</u>	<u>Shandong</u>	<u>EC</u>	<u>21</u>	<u>1</u>	<u>12</u>	<u>32</u>	<u>20</u>	<u>2</u>	<u>12</u>	<u>33</u>	<u>28</u>	<u>2</u>	<u>14</u>	<u>51</u>
<u>Jining</u>	<u>Shandong</u>	<u>EC</u>	<u>36</u>	<u>3</u>	<u>21</u>	<u>88</u>	<u>43</u>	<u>3</u>	<u>21</u>	<u>66</u>	<u>50</u>	<u>3</u>	<u>25</u>	<u>82</u>
<u>Laiwu</u>	<u>Shandong</u>	<u>EC</u>	<u>22</u>	<u>3</u>	<u>6</u>	<u>46</u>	<u>32</u>	<u>2</u>	<u>15</u>	<u>42</u>	<u>38</u>	<u>3</u>	<u>16</u>	<u>61</u>
<u>Liaocheng</u>	<u>Shandong</u>	<u>EC</u>	<u>20</u>	<u>2</u>	<u>7</u>	<u>36</u>	<u>21</u>	<u>2</u>	<u>12</u>	<u>45</u>	<u>34</u>	<u>2</u>	<u>15</u>	<u>53</u>
<u>Linyi</u>	<u>Shandong</u>	<u>EC</u>	<u>15</u>	<u>2</u>	<u>5</u>	<u>42</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>32</u>	<u>24</u>	<u>2</u>	<u>7</u>	<u>49</u>
<u>Qingdao</u>	<u>Shandong</u>	<u>EC</u>	<u>17</u>	<u>1</u>	<u>12</u>	<u>28</u>	<u>20</u>	<u>1</u>	<u>14</u>	<u>33</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>27</u>
<u>Rizhao</u>	<u>Shandong</u>	<u>EC</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>23</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>26</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>41</u>
<u>Tai'an</u>	<u>Shandong</u>	<u>EC</u>	<u>20</u>	<u>2</u>	<u>8</u>	<u>34</u>	<u>28</u>	<u>2</u>	<u>14</u>	<u>46</u>	<u>31</u>	<u>2</u>	<u>13</u>	<u>55</u>
<u>Weihai</u>	<u>Shandong</u>	<u>EC</u>	<u>10</u>	<u>1</u>	<u>3</u>	<u>20</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>29</u>
<u>Weifang</u>	<u>Shandong</u>	<u>EC</u>	<u>19</u>	<u>2</u>	<u>11</u>	<u>38</u>	<u>27</u>	<u>3</u>	<u>13</u>	<u>62</u>	<u>26</u>	<u>2</u>	<u>13</u>	<u>68</u>
<u>Yantai</u>	<u>Shandong</u>	<u>EC</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>18</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>15</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>23</u>
<u>Zaozhuang</u>	<u>Shandong</u>	<u>EC</u>	<u>36</u>	<u>3</u>	<u>14</u>	<u>57</u>	<u>60</u>	<u>3</u>	<u>43</u>	<u>82</u>	<u>53</u>	<u>5</u>	<u>10</u>	<u>136</u>
<u>Zibo</u>	<u>Shandong</u>	<u>EC</u>	<u>54</u>	<u>6</u>	<u>21</u>	<u>94</u>	<u>61</u>	<u>8</u>	<u>22</u>	<u>114</u>	<u>62</u>	<u>5</u>	<u>27</u>	<u>111</u>

<u>Aixa League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>11</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>13</u>	<u>5</u>	<u>0</u>	<u>2</u>	<u>10</u>
<u>Bayannur</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>21</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>27</u>	<u>13</u>	<u>1</u>	<u>4</u>	<u>30</u>
<u>Baotou</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>25</u>	<u>2</u>	<u>11</u>	<u>37</u>	<u>20</u>	<u>2</u>	<u>9</u>	<u>29</u>	<u>23</u>	<u>2</u>	<u>8</u>	<u>41</u>
<u>Chifeng</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>25</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>15</u>	<u>1</u>	<u>7</u>	<u>24</u>
<u>Ordos</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>11</u>	<u>1</u>	<u>4</u>	<u>22</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>26</u>	<u>14</u>	<u>1</u>	<u>5</u>	<u>36</u>
<u>Hohhot</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>12</u>	<u>1</u>	<u>9</u>	<u>18</u>	<u>8</u>	<u>0</u>	<u>5</u>	<u>12</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>24</u>
<u>Hulun Buir</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>4</u>	<u>3</u>	<u>0</u>	<u>1</u>	<u>7</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>8</u>
<u>Tongliao</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>19</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>15</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>21</u>
<u>Wuhai</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>48</u>	<u>7</u>	<u>6</u>	<u>122</u>	<u>34</u>	<u>7</u>	<u>4</u>	<u>95</u>	<u>57</u>	<u>11</u>	<u>3</u>	<u>178</u>
<u>Hinggan League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>5</u>	<u>0</u>	<u>2</u>	<u>9</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>6</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>17</u>
<u>Anyang</u>	<u>Henan</u>	<u>EC</u>	<u>14</u>	<u>2</u>	<u>5</u>	<u>31</u>	<u>26</u>	<u>3</u>	<u>13</u>	<u>40</u>	<u>32</u>	<u>2</u>	<u>10</u>	<u>59</u>
<u>Hebi</u>	<u>Henan</u>	<u>EC</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>30</u>	<u>17</u>	<u>2</u>	<u>9</u>	<u>28</u>	<u>28</u>	<u>2</u>	<u>11</u>	<u>46</u>
<u>Jiaozuo</u>	<u>Henan</u>	<u>EC</u>	<u>20</u>	<u>2</u>	<u>5</u>	<u>33</u>	<u>23</u>	<u>2</u>	<u>10</u>	<u>37</u>	<u>28</u>	<u>3</u>	<u>9</u>	<u>65</u>
<u>Kaifeng</u>	<u>Henan</u>	<u>EC</u>	<u>13</u>	<u>1</u>	<u>10</u>	<u>19</u>	<u>16</u>	<u>1</u>	<u>10</u>	<u>28</u>	<u>18</u>	<u>1</u>	<u>7</u>	<u>32</u>
<u>Luoyang</u>	<u>Henan</u>	<u>EC</u>	<u>24</u>	<u>3</u>	<u>7</u>	<u>50</u>	<u>20</u>	<u>2</u>	<u>8</u>	<u>30</u>	<u>25</u>	<u>1</u>	<u>7</u>	<u>37</u>
<u>Luohe</u>	<u>Henan</u>	<u>EC</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>30</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>21</u>	<u>28</u>	<u>3</u>	<u>11</u>	<u>84</u>
<u>Nanyang</u>	<u>Henan</u>	<u>EC</u>	<u>22</u>	<u>1</u>	<u>10</u>	<u>33</u>	<u>22</u>	<u>1</u>	<u>15</u>	<u>29</u>	<u>19</u>	<u>2</u>	<u>8</u>	<u>37</u>
<u>Pingdingshan</u>	<u>Henan</u>	<u>EC</u>	<u>32</u>	<u>2</u>	<u>15</u>	<u>49</u>	<u>32</u>	<u>2</u>	<u>23</u>	<u>46</u>	<u>34</u>	<u>2</u>	<u>15</u>	<u>57</u>
<u>Sanmenxia</u>	<u>Henan</u>	<u>EC</u>	<u>18</u>	<u>1</u>	<u>8</u>	<u>28</u>	<u>25</u>	<u>2</u>	<u>13</u>	<u>42</u>	<u>26</u>	<u>2</u>	<u>10</u>	<u>45</u>
<u>Shangqiu</u>	<u>Henan</u>	<u>EC</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>15</u>	<u>18</u>	<u>1</u>	<u>13</u>	<u>22</u>	<u>20</u>	<u>1</u>	<u>11</u>	<u>34</u>
<u>Xinyang</u>	<u>Henan</u>	<u>EC</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>25</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>21</u>	<u>17</u>	<u>1</u>	<u>8</u>	<u>26</u>
<u>Zhengzhou</u>	<u>Henan</u>	<u>EC</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>12</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>15</u>	<u>16</u>	<u>1</u>	<u>5</u>	<u>32</u>
<u>Zhoukou</u>	<u>Henan</u>	<u>EC</u>	<u>7</u>	<u>0</u>	<u>6</u>	<u>9</u>	<u>9</u>	<u>0</u>	<u>6</u>	<u>11</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>20</u>
<u>Zhumadian</u>	<u>Henan</u>	<u>EC</u>	<u>26</u>	<u>2</u>	<u>7</u>	<u>45</u>	<u>45</u>	<u>8</u>	<u>16</u>	<u>141</u>	<u>28</u>	<u>2</u>	<u>10</u>	<u>61</u>
<u>Anshan</u>	<u>Liaoning</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>25</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>26</u>	<u>21</u>	<u>1</u>	<u>11</u>	<u>36</u>
<u>Benxi</u>	<u>Liaoning</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>6</u>	<u>12</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>18</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>28</u>

<u>Chaoyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>13</u>	<u>10</u>	<u>1</u>	<u>7</u>	<u>15</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>26</u>
<u>Dalian</u>	<u>Liaoning</u>	<u>NEC</u>	<u>8</u>	<u>1</u>	<u>3</u>	<u>16</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>16</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>19</u>
<u>Dandong</u>	<u>Liaoning</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>9</u>	<u>9</u>	<u>1</u>	<u>7</u>	<u>13</u>	<u>12</u>	<u>0</u>	<u>8</u>	<u>15</u>
<u>Fushun</u>	<u>Liaoning</u>	<u>NEC</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>12</u>	<u>8</u>	<u>1</u>	<u>5</u>	<u>13</u>	<u>14</u>	<u>1</u>	<u>5</u>	<u>25</u>
<u>Fuxin</u>	<u>Liaoning</u>	<u>NEC</u>	<u>29</u>	<u>3</u>	<u>12</u>	<u>64</u>	<u>30</u>	<u>2</u>	<u>22</u>	<u>49</u>	<u>32</u>	<u>2</u>	<u>15</u>	<u>60</u>
<u>Huludao</u>	<u>Liaoning</u>	<u>NEC</u>	<u>20</u>	<u>3</u>	<u>7</u>	<u>56</u>	<u>29</u>	<u>2</u>	<u>20</u>	<u>43</u>	<u>28</u>	<u>2</u>	<u>10</u>	<u>52</u>
<u>Jinzhou</u>	<u>Liaoning</u>	<u>NEC</u>	<u>25</u>	<u>1</u>	<u>18</u>	<u>39</u>	<u>17</u>	<u>1</u>	<u>12</u>	<u>27</u>	<u>27</u>	<u>2</u>	<u>14</u>	<u>42</u>
<u>Liaoyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>13</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>22</u>	<u>18</u>	<u>1</u>	<u>7</u>	<u>35</u>
<u>Panjin</u>	<u>Liaoning</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>21</u>	<u>18</u>	<u>1</u>	<u>13</u>	<u>27</u>	<u>18</u>	<u>1</u>	<u>9</u>	<u>31</u>
<u>Shenyang</u>	<u>Liaoning</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>4</u>	<u>24</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>16</u>	<u>18</u>	<u>2</u>	<u>5</u>	<u>34</u>
<u>Tieling</u>	<u>Liaoning</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>19</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>13</u>	<u>13</u>	<u>1</u>	<u>5</u>	<u>23</u>
<u>Wafangdian</u>	<u>Liaoning</u>	<u>NEC</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>4</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>7</u>	<u>6</u>	<u>1</u>	<u>1</u>	<u>16</u>
<u>Yingkou</u>	<u>Liaoning</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>16</u>	<u>11</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>30</u>
<u>Baicheng</u>	<u>Jilin</u>	<u>NEC</u>	<u>6</u>	<u>0</u>	<u>4</u>	<u>12</u>	<u>6</u>	<u>0</u>	<u>2</u>	<u>9</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>17</u>
<u>Baishan</u>	<u>Jilin</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>23</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>12</u>	<u>16</u>	<u>2</u>	<u>4</u>	<u>36</u>
<u>Changchun</u>	<u>Jilin</u>	<u>NEC</u>	<u>6</u>	<u>0</u>	<u>3</u>	<u>8</u>	<u>6</u>	<u>1</u>	<u>4</u>	<u>10</u>	<u>8</u>	<u>0</u>	<u>3</u>	<u>14</u>
<u>Jilin</u>	<u>Jilin</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>7</u>	<u>19</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>26</u>	<u>17</u>	<u>2</u>	<u>9</u>	<u>41</u>
<u>Liaoyuan</u>	<u>Jilin</u>	<u>NEC</u>	<u>6</u>	<u>1</u>	<u>4</u>	<u>23</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>22</u>
<u>Siping</u>	<u>Jilin</u>	<u>NEC</u>	<u>10</u>	<u>2</u>	<u>3</u>	<u>43</u>	<u>6</u>	<u>1</u>	<u>1</u>	<u>12</u>	<u>11</u>	<u>1</u>	<u>3</u>	<u>23</u>
<u>Songyuan</u>	<u>Jilin</u>	<u>NEC</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>26</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>4</u>	<u>5</u>	<u>0</u>	<u>2</u>	<u>11</u>
<u>Daqing</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>7</u>	<u>15</u>	<u>9</u>	<u>1</u>	<u>7</u>	<u>16</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>17</u>
<u>Daxinganling</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>24</u>	<u>14</u>	<u>0</u>	<u>12</u>	<u>17</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>38</u>
<u>Harbin</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>7</u>	<u>5</u>	<u>0</u>	<u>4</u>	<u>6</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>11</u>
<u>Hegang</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>5</u>	<u>4</u>	<u>0</u>	<u>1</u>	<u>8</u>
<u>Heihe</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>10</u>	<u>0</u>	<u>8</u>	<u>12</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>24</u>	<u>11</u>	<u>0</u>	<u>7</u>	<u>14</u>
<u>Jixi</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>14</u>	<u>15</u>	<u>0</u>	<u>13</u>	<u>20</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>22</u>

<u>Jiamusi</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>23</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>7</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>9</u>
<u>Mudanjiang</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>10</u>	<u>8</u>	<u>0</u>	<u>5</u>	<u>10</u>	<u>6</u>	<u>0</u>	<u>3</u>	<u>10</u>
<u>Qitaihe</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>18</u>	<u>0</u>	<u>16</u>	<u>21</u>	<u>17</u>	<u>1</u>	<u>14</u>	<u>29</u>	<u>15</u>	<u>0</u>	<u>9</u>	<u>18</u>
<u>Qiqihar</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>13</u>	<u>2</u>	<u>8</u>	<u>32</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>11</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>8</u>
<u>Shuangyashan</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>31</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>18</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>17</u>
<u>Suihua</u>	<u>Heilongjiang</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>3</u>	<u>18</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>14</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>24</u>
<u>Ankang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>3</u>	<u>23</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>16</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>20</u>
<u>Baoji</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>4</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>7</u>	<u>5</u>	<u>0</u>	<u>2</u>	<u>9</u>
<u>Hanzhong</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>3</u>	<u>10</u>	<u>10</u>	<u>1</u>	<u>3</u>	<u>13</u>	<u>7</u>	<u>0</u>	<u>3</u>	<u>11</u>
<u>Shangluo</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>21</u>	<u>4</u>	<u>4</u>	<u>61</u>	<u>19</u>	<u>3</u>	<u>5</u>	<u>44</u>	<u>21</u>	<u>3</u>	<u>5</u>	<u>55</u>
<u>Tongchuan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>7</u>	<u>9</u>	<u>1</u>	<u>6</u>	<u>14</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>19</u>
<u>Weinan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>15</u>	<u>13</u>	<u>1</u>	<u>6</u>	<u>23</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>15</u>
<u>Xi'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>2</u>	<u>10</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>19</u>
<u>Xianyang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>11</u>	<u>0</u>	<u>8</u>	<u>16</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>20</u>	<u>11</u>	<u>1</u>	<u>4</u>	<u>17</u>
<u>Yan'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>6</u>	<u>9</u>	<u>10</u>	<u>0</u>	<u>8</u>	<u>12</u>	<u>8</u>	<u>0</u>	<u>6</u>	<u>10</u>
<u>Yulin</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>10</u>	<u>8</u>	<u>1</u>	<u>3</u>	<u>11</u>	<u>6</u>	<u>1</u>	<u>1</u>	<u>14</u>
<u>Baiying</u>	<u>Gansu</u>	<u>NEC</u>	<u>24</u>	<u>5</u>	<u>3</u>	<u>97</u>	<u>71</u>	<u>12</u>	<u>14</u>	<u>161</u>	<u>38</u>	<u>5</u>	<u>3</u>	<u>111</u>
<u>Dingxi</u>	<u>Gansu</u>	<u>NEC</u>	<u>8</u>	<u>2</u>	<u>3</u>	<u>33</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>10</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>8</u>
<u>Gannan</u>	<u>Gansu</u>	<u>NEC</u>	<u>9</u>	<u>2</u>	<u>3</u>	<u>33</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>9</u>	<u>7</u>	<u>0</u>	<u>3</u>	<u>12</u>
<u>Jiayuguan</u>	<u>Gansu</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>11</u>	<u>39</u>	<u>11</u>	<u>2</u>	<u>6</u>	<u>31</u>	<u>21</u>	<u>2</u>	<u>3</u>	<u>43</u>
<u>Jiuquan</u>	<u>Gansu</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>3</u>	<u>27</u>	<u>7</u>	<u>2</u>	<u>2</u>	<u>24</u>	<u>6</u>	<u>0</u>	<u>3</u>	<u>13</u>
<u>Lanzhou</u>	<u>Gansu</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>23</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>17</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>22</u>
<u>Linxia</u>	<u>Gansu</u>	<u>NEC</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>12</u>	<u>10</u>	<u>0</u>	<u>8</u>	<u>13</u>	<u>9</u>	<u>1</u>	<u>2</u>	<u>14</u>
<u>Pingliang</u>	<u>Gansu</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>3</u>	<u>23</u>	<u>9</u>	<u>1</u>	<u>1</u>	<u>15</u>	<u>11</u>	<u>2</u>	<u>3</u>	<u>50</u>
<u>Qingyang</u>	<u>Gansu</u>	<u>NEC</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>8</u>	<u>6</u>	<u>0</u>	<u>2</u>	<u>9</u>	<u>4</u>	<u>0</u>	<u>1</u>	<u>7</u>
<u>Tianshui</u>	<u>Gansu</u>	<u>NEC</u>	<u>8</u>	<u>0</u>	<u>5</u>	<u>14</u>	<u>6</u>	<u>0</u>	<u>4</u>	<u>9</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>7</u>

<u>Wuwei</u>	<u>Gansu</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>10</u>	<u>9</u>	<u>0</u>	<u>7</u>	<u>13</u>	<u>8</u>	<u>0</u>	<u>5</u>	<u>12</u>
<u>Zhangye</u>	<u>Gansu</u>	<u>NEC</u>	<u>13</u>	<u>0</u>	<u>10</u>	<u>16</u>	<u>15</u>	<u>1</u>	<u>11</u>	<u>20</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>25</u>
<u>Guyuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>13</u>	<u>8</u>	<u>1</u>	<u>3</u>	<u>15</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>10</u>
<u>Shizuishan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>55</u>	<u>4</u>	<u>27</u>	<u>90</u>	<u>37</u>	<u>4</u>	<u>12</u>	<u>62</u>	<u>33</u>	<u>3</u>	<u>13</u>	<u>81</u>
<u>Wuzhong</u>	<u>Ningxia</u>	<u>NEC</u>	<u>11</u>	<u>2</u>	<u>2</u>	<u>24</u>	<u>18</u>	<u>2</u>	<u>3</u>	<u>30</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>21</u>
<u>Yinchuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>15</u>	<u>2</u>	<u>3</u>	<u>29</u>	<u>21</u>	<u>2</u>	<u>5</u>	<u>30</u>	<u>16</u>	<u>2</u>	<u>4</u>	<u>43</u>
<u>Zhongwei</u>	<u>Ningxia</u>	<u>NEC</u>	<u>11</u>	<u>2</u>	<u>5</u>	<u>27</u>	<u>18</u>	<u>2</u>	<u>2</u>	<u>29</u>	<u>8</u>	<u>1</u>	<u>3</u>	<u>17</u>
<u>Aksu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>6</u>	<u>1</u>	<u>1</u>	<u>13</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>15</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>28</u>
<u>Hami</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>6</u>	<u>1</u>	<u>1</u>	<u>16</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>14</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>13</u>
<u>Hotan</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>38</u>	<u>4</u>	<u>9</u>	<u>74</u>	<u>27</u>	<u>4</u>	<u>8</u>	<u>55</u>	<u>31</u>	<u>3</u>	<u>8</u>	<u>69</u>
<u>Kashgar</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>16</u>	<u>9</u>	<u>1</u>	<u>6</u>	<u>14</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>26</u>
<u>Karamay</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>11</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>20</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>11</u>
<u>Kizilsu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>5</u>	<u>2</u>	<u>0</u>	<u>27</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>16</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>4</u>
<u>Shihezi</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>2</u>	<u>25</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>14</u>	<u>9</u>	<u>1</u>	<u>3</u>	<u>18</u>
<u>Urumchi</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>2</u>	<u>18</u>	<u>9</u>	<u>1</u>	<u>2</u>	<u>15</u>	<u>10</u>	<u>1</u>	<u>3</u>	<u>23</u>
<u>Wujiachu</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>9</u>	<u>3</u>	<u>1</u>	<u>56</u>	<u>13</u>	<u>3</u>	<u>4</u>	<u>44</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>21</u>
<u>Yili</u>	<u>Sinkiang</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>9</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>10</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>20</u>
<u>Ezhou</u>	<u>Hubei</u>	<u>NEC</u>	<u>16</u>	<u>2</u>	<u>5</u>	<u>34</u>	<u>15</u>	<u>1</u>	<u>9</u>	<u>25</u>	<u>21</u>	<u>2</u>	<u>6</u>	<u>43</u>
<u>Huanggang</u>	<u>Hubei</u>	<u>NEC</u>	<u>10</u>	<u>2</u>	<u>1</u>	<u>29</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>15</u>	<u>18</u>	<u>3</u>	<u>2</u>	<u>50</u>
<u>Jingmen</u>	<u>Hubei</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>27</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>21</u>	<u>19</u>	<u>2</u>	<u>6</u>	<u>51</u>
<u>Shiyan</u>	<u>Hubei</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>23</u>	<u>22</u>	<u>1</u>	<u>15</u>	<u>33</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>29</u>
<u>Wuhan</u>	<u>Hubei</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>18</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>29</u>
<u>Xianning</u>	<u>Hubei</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>22</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>19</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>22</u>
<u>Xiangyang</u>	<u>Hubei</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>3</u>	<u>20</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>32</u>
<u>Xiaogan</u>	<u>Hubei</u>	<u>NEC</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>23</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>19</u>	<u>6</u>	<u>1</u>	<u>0</u>	<u>14</u>
<u>Yichang</u>	<u>Hubei</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>24</u>	<u>11</u>	<u>1</u>	<u>8</u>	<u>19</u>	<u>10</u>	<u>0</u>	<u>6</u>	<u>15</u>

<u>Anqing</u>	<u>Anhui</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>18</u>	<u>15</u>	<u>0</u>	<u>13</u>	<u>17</u>	<u>18</u>	<u>1</u>	<u>11</u>	<u>35</u>
<u>Bengbu</u>	<u>Anhui</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>5</u>	<u>23</u>	<u>18</u>	<u>1</u>	<u>14</u>	<u>23</u>	<u>22</u>	<u>1</u>	<u>13</u>	<u>34</u>
<u>Bozhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>40</u>	<u>2</u>	<u>27</u>	<u>59</u>	<u>40</u>	<u>3</u>	<u>15</u>	<u>61</u>	<u>34</u>	<u>2</u>	<u>14</u>	<u>59</u>
<u>Chuzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>22</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>18</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>18</u>
<u>Fuyang</u>	<u>Anhui</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>13</u>	<u>23</u>	<u>19</u>	<u>1</u>	<u>14</u>	<u>34</u>	<u>20</u>	<u>1</u>	<u>15</u>	<u>27</u>
<u>Hefei</u>	<u>Anhui</u>	<u>NEC</u>	<u>8</u>	<u>1</u>	<u>6</u>	<u>14</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>9</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>14</u>
<u>Huabei</u>	<u>Anhui</u>	<u>NEC</u>	<u>28</u>	<u>2</u>	<u>18</u>	<u>48</u>	<u>25</u>	<u>1</u>	<u>16</u>	<u>34</u>	<u>27</u>	<u>3</u>	<u>14</u>	<u>73</u>
<u>Huainan</u>	<u>Anhui</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>16</u>	<u>9</u>	<u>0</u>	<u>6</u>	<u>12</u>	<u>11</u>	<u>0</u>	<u>6</u>	<u>15</u>
<u>Huangshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>8</u>	<u>8</u>	<u>0</u>	<u>7</u>	<u>9</u>	<u>8</u>	<u>0</u>	<u>7</u>	<u>11</u>
<u>Lu'an</u>	<u>Anhui</u>	<u>NEC</u>	<u>21</u>	<u>5</u>	<u>5</u>	<u>68</u>	<u>10</u>	<u>0</u>	<u>9</u>	<u>13</u>	<u>12</u>	<u>0</u>	<u>9</u>	<u>16</u>
<u>Ma'anshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>14</u>	<u>2</u>	<u>5</u>	<u>31</u>	<u>19</u>	<u>2</u>	<u>11</u>	<u>29</u>	<u>14</u>	<u>2</u>	<u>5</u>	<u>41</u>
<u>Suzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>14</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>22</u>
<u>Tongling</u>	<u>Anhui</u>	<u>NEC</u>	<u>29</u>	<u>3</u>	<u>10</u>	<u>69</u>	<u>36</u>	<u>3</u>	<u>18</u>	<u>64</u>	<u>28</u>	<u>1</u>	<u>12</u>	<u>42</u>
<u>Wuhu</u>	<u>Anhui</u>	<u>NEC</u>	<u>22</u>	<u>1</u>	<u>17</u>	<u>31</u>	<u>18</u>	<u>1</u>	<u>14</u>	<u>24</u>	<u>19</u>	<u>1</u>	<u>14</u>	<u>28</u>
<u>Changzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>22</u>	<u>2</u>	<u>10</u>	<u>36</u>	<u>23</u>	<u>2</u>	<u>10</u>	<u>36</u>	<u>24</u>	<u>2</u>	<u>12</u>	<u>47</u>
<u>Huaian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>8</u>	<u>41</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>5</u>	<u>27</u>
<u>Lianyungang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>21</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>27</u>	<u>22</u>	<u>1</u>	<u>10</u>	<u>36</u>
<u>Nanjing</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>14</u>	<u>2</u>	<u>5</u>	<u>26</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>25</u>
<u>Nantong</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>12</u>	<u>43</u>	<u>25</u>	<u>3</u>	<u>9</u>	<u>46</u>	<u>23</u>	<u>1</u>	<u>14</u>	<u>44</u>
<u>Suzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>21</u>	<u>18</u>	<u>2</u>	<u>9</u>	<u>39</u>	<u>17</u>	<u>1</u>	<u>8</u>	<u>29</u>
<u>Suqian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>12</u>	<u>2</u>	<u>3</u>	<u>35</u>	<u>15</u>	<u>1</u>	<u>5</u>	<u>24</u>	<u>16</u>	<u>1</u>	<u>5</u>	<u>28</u>
<u>Taizhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>11</u>	<u>28</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>24</u>	<u>19</u>	<u>1</u>	<u>12</u>	<u>29</u>
<u>Wuxi</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>29</u>	<u>24</u>	<u>1</u>	<u>16</u>	<u>36</u>	<u>27</u>	<u>1</u>	<u>14</u>	<u>41</u>
<u>Xuzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>26</u>	<u>1</u>	<u>20</u>	<u>41</u>	<u>34</u>	<u>3</u>	<u>18</u>	<u>57</u>	<u>29</u>	<u>2</u>	<u>17</u>	<u>52</u>
<u>Yanchen</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>14</u>	<u>2</u>	<u>5</u>	<u>27</u>	<u>14</u>	<u>1</u>	<u>10</u>	<u>18</u>	<u>17</u>	<u>1</u>	<u>7</u>	<u>26</u>
<u>Yangzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>25</u>	<u>3</u>	<u>8</u>	<u>58</u>	<u>19</u>	<u>1</u>	<u>13</u>	<u>23</u>	<u>17</u>	<u>1</u>	<u>8</u>	<u>28</u>

Zhenjiang	Jiangsu	NEC	22	2	10	35	19	1	10	25	20	2	10	41
Shanghai	Municipality	NEC	11	1	6	17	13	1	8	24	11	1	7	18
Hangzhou	Zhejiang	NEC	11	1	6	17	11	1	7	19	14	1	7	20
Huzhou	Zhejiang	NEC	10	1	4	18	14	2	4	31	12	1	4	20
Jiaxing	Zhejiang	NEC	11	1	3	19	18	2	8	34	16	1	3	32
Jinhua	Zhejiang	NEC	15	2	3	32	16	1	9	26	18	1	8	37
Lishui	Zhejiang	NEC	6	1	1	12	10	1	2	21	7	1	2	22
Ningbo	Zhejiang	NEC	10	1	6	16	13	1	9	20	14	1	7	20
Quzhou	Zhejiang	NEC	15	2	3	32	18	2	9	34	17	1	8	28
Shaoxing	Zhejiang	NEC	13	1	6	24	23	2	14	37	28	2	14	43
Taizhou	Zhejiang	NEC	6	1	1	11	6	1	3	11	7	0	3	12
Wenjiang	Zhejiang	NEC	8	1	2	12	9	1	5	13	8	1	2	13
Zhoushan	Zhejiang	NEC	5	1	2	15	6	0	3	9	7	0	5	14
Fuzhou	Jiangxi	NEC	14	1	3	23	18	3	6	37	18	2	7	40
Ganzhou	Jiangxi	NEC	17	2	10	33	20	2	10	37	26	2	13	48
Ji'an	Jiangxi	NEC	23	3	8	43	24	2	11	40	30	2	6	47
Jingdezhen	Jiangxi	NEC	7	1	2	17	10	1	2	20	8	0	4	12
Jiujiang	Jiangxi	NEC	40	1	27	52	39	2	29	49	37	1	26	48
Nanchang	Jiangxi	NEC	26	2	12	50	26	1	20	33	24	1	8	34
Pingxiang	Jiangxi	NEC	20	2	12	47	25	2	14	33	22	2	10	40
Shangrao	Jiangxi	NEC	44	4	10	72	44	5	20	99	33	2	14	54
Xinyu	Jiangxi	NEC	25	3	5	53	22	2	8	30	19	1	6	30
Yichun	Jiangxi	NEC	11	1	5	21	15	1	9	19	17	1	8	36
Yingtan	Jiangxi	NEC	21	2	13	41	26	3	15	48	37	3	14	85
Changsha	Hunan	NEC	14	1	8	20	14	1	7	20	13	1	4	24
Changde	Hunan	NEC	17	1	6	22	14	1	10	20	14	1	5	20

<u>Chenzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>19</u>	<u>17</u>	<u>2</u>	<u>9</u>	<u>35</u>	<u>17</u>	<u>1</u>	<u>8</u>	<u>30</u>
<u>Huaihua</u>	<u>Hunan</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>4</u>	<u>24</u>	<u>13</u>	<u>1</u>	<u>6</u>	<u>22</u>	<u>13</u>	<u>1</u>	<u>3</u>	<u>29</u>
<u>Loudi</u>	<u>Hunan</u>	<u>NEC</u>	<u>29</u>	<u>1</u>	<u>16</u>	<u>37</u>	<u>33</u>	<u>1</u>	<u>26</u>	<u>42</u>	<u>29</u>	<u>1</u>	<u>15</u>	<u>40</u>
<u>Xiangtan</u>	<u>Hunan</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>22</u>	<u>16</u>	<u>1</u>	<u>9</u>	<u>29</u>	<u>20</u>	<u>2</u>	<u>7</u>	<u>44</u>
<u>Yiyang</u>	<u>Hunan</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>8</u>	<u>25</u>	<u>23</u>	<u>1</u>	<u>17</u>	<u>31</u>	<u>24</u>	<u>1</u>	<u>13</u>	<u>39</u>
<u>Yongzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>39</u>	<u>2</u>	<u>17</u>	<u>57</u>	<u>27</u>	<u>2</u>	<u>9</u>	<u>41</u>	<u>31</u>	<u>2</u>	<u>12</u>	<u>51</u>
<u>Zhangjiajie</u>	<u>Hunan</u>	<u>NEC</u>	<u>6</u>	<u>0</u>	<u>4</u>	<u>9</u>	<u>6</u>	<u>0</u>	<u>4</u>	<u>7</u>	<u>6</u>	<u>0</u>	<u>2</u>	<u>9</u>
<u>Zhuzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>17</u>	<u>2</u>	<u>8</u>	<u>36</u>	<u>18</u>	<u>1</u>	<u>7</u>	<u>27</u>	<u>19</u>	<u>1</u>	<u>10</u>	<u>28</u>
<u>Dongguan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>19</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>17</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>20</u>
<u>Foshan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>11</u>	<u>22</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>26</u>	<u>14</u>	<u>1</u>	<u>7</u>	<u>21</u>
<u>Guangzhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>12</u>	<u>0</u>	<u>8</u>	<u>17</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>17</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>16</u>
<u>Heyuan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>12</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>13</u>	<u>8</u>	<u>0</u>	<u>4</u>	<u>13</u>
<u>Huizhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>7</u>	<u>14</u>	<u>9</u>	<u>1</u>	<u>7</u>	<u>16</u>	<u>9</u>	<u>0</u>	<u>6</u>	<u>15</u>
<u>Jiangmen</u>	<u>Guangdong</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>9</u>	<u>17</u>	<u>18</u>	<u>1</u>	<u>8</u>	<u>28</u>	<u>15</u>	<u>1</u>	<u>10</u>	<u>24</u>
<u>Maoming</u>	<u>Guangdong</u>	<u>NEC</u>	<u>12</u>	<u>2</u>	<u>5</u>	<u>33</u>	<u>16</u>	<u>2</u>	<u>9</u>	<u>30</u>	<u>10</u>	<u>1</u>	<u>2</u>	<u>20</u>
<u>Meizhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>9</u>	<u>6</u>	<u>0</u>	<u>4</u>	<u>8</u>	<u>8</u>	<u>0</u>	<u>5</u>	<u>11</u>
<u>Qingyuan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>18</u>	<u>1</u>	<u>12</u>	<u>25</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>15</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>22</u>
<u>Shantou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>18</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>12</u>	<u>1</u>	<u>8</u>	<u>23</u>
<u>Shaoguan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>28</u>	<u>16</u>	<u>1</u>	<u>9</u>	<u>24</u>	<u>16</u>	<u>1</u>	<u>7</u>	<u>24</u>
<u>Shenzhen</u>	<u>Guangdong</u>	<u>NEC</u>	<u>9</u>	<u>0</u>	<u>6</u>	<u>13</u>	<u>8</u>	<u>1</u>	<u>6</u>	<u>12</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>13</u>
<u>Zhanjiang</u>	<u>Guangdong</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>14</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>9</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>10</u>
<u>Zhaoqing</u>	<u>Guangdong</u>	<u>NEC</u>	<u>19</u>	<u>1</u>	<u>10</u>	<u>28</u>	<u>17</u>	<u>2</u>	<u>9</u>	<u>28</u>	<u>21</u>	<u>1</u>	<u>12</u>	<u>34</u>
<u>Zhongshan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>7</u>	<u>1</u>	<u>4</u>	<u>17</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>17</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>19</u>
<u>Zhuhai</u>	<u>Guangdong</u>	<u>NEC</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>14</u>	<u>8</u>	<u>1</u>	<u>3</u>	<u>15</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>17</u>
<u>Fuzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>6</u>	<u>4</u>	<u>0</u>	<u>3</u>	<u>6</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>5</u>
<u>Longyan</u>	<u>Fujian</u>	<u>NEC</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>12</u>	<u>6</u>	<u>0</u>	<u>4</u>	<u>9</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>16</u>

<u>Nanping</u>	<u>Fujian</u>	<u>NEC</u>	<u>12</u>	<u>0</u>	<u>8</u>	<u>15</u>	<u>15</u>	<u>1</u>	<u>11</u>	<u>21</u>	<u>15</u>	<u>1</u>	<u>11</u>	<u>27</u>
<u>Ningde</u>	<u>Fujian</u>	<u>NEC</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>5</u>	<u>3</u>	<u>0</u>	<u>1</u>	<u>5</u>	<u>3</u>	<u>0</u>	<u>1</u>	<u>7</u>
<u>Putian</u>	<u>Fujian</u>	<u>NEC</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>11</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>7</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>8</u>
<u>Quanzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>3</u>	<u>25</u>	<u>9</u>	<u>1</u>	<u>6</u>	<u>17</u>	<u>9</u>	<u>1</u>	<u>4</u>	<u>24</u>
<u>Sanming</u>	<u>Fujian</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>4</u>	<u>19</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>19</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>23</u>
<u>Xiamen</u>	<u>Fujian</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>3</u>	<u>16</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>12</u>	<u>6</u>	<u>0</u>	<u>2</u>	<u>9</u>
<u>Zhangzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>16</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>19</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>17</u>
<u>Haikou</u>	<u>Hainan</u>	<u>NEC</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>10</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>8</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>8</u>
<u>Sanya</u>	<u>Hainan</u>	<u>NEC</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>7</u>	<u>2</u>	<u>0</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>4</u>
<u>Chongqing</u>	<u>Municipality</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>16</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>16</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>23</u>
<u>Bazhong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>5</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>5</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>4</u>
<u>Chengdu</u>	<u>Sichuan</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>20</u>	<u>15</u>	<u>1</u>	<u>7</u>	<u>24</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>25</u>
<u>Dazhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>6</u>	<u>31</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>19</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>26</u>
<u>Deyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>7</u>	<u>30</u>	<u>14</u>	<u>1</u>	<u>4</u>	<u>23</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>22</u>
<u>Guangyuan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>17</u>	<u>1</u>	<u>12</u>	<u>22</u>	<u>16</u>	<u>1</u>	<u>13</u>	<u>23</u>	<u>12</u>	<u>0</u>	<u>7</u>	<u>17</u>
<u>Leshan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>14</u>	<u>1</u>	<u>6</u>	<u>25</u>	<u>19</u>	<u>3</u>	<u>6</u>	<u>38</u>	<u>13</u>	<u>1</u>	<u>6</u>	<u>27</u>
<u>Luzhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>6</u>	<u>20</u>	<u>15</u>	<u>2</u>	<u>6</u>	<u>27</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>19</u>
<u>Meishan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>8</u>	<u>26</u>	<u>13</u>	<u>2</u>	<u>2</u>	<u>30</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>20</u>
<u>Mianyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>21</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>18</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>23</u>
<u>Nanchong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>18</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>22</u>	<u>9</u>	<u>1</u>	<u>5</u>	<u>22</u>
<u>Panzhihua</u>	<u>Sichuan</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>12</u>	<u>44</u>	<u>30</u>	<u>2</u>	<u>19</u>	<u>44</u>	<u>35</u>	<u>2</u>	<u>16</u>	<u>76</u>
<u>Suining</u>	<u>Sichuan</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>3</u>	<u>19</u>	<u>7</u>	<u>1</u>	<u>4</u>	<u>17</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>17</u>
<u>Ya'an</u>	<u>Sichuan</u>	<u>NEC</u>	<u>14</u>	<u>2</u>	<u>6</u>	<u>56</u>	<u>8</u>	<u>0</u>	<u>6</u>	<u>10</u>	<u>10</u>	<u>0</u>	<u>6</u>	<u>14</u>
<u>Ziyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>12</u>	<u>36</u>	<u>22</u>	<u>1</u>	<u>17</u>	<u>30</u>	<u>16</u>	<u>1</u>	<u>9</u>	<u>28</u>
<u>Zigong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>9</u>	<u>27</u>	<u>19</u>	<u>1</u>	<u>11</u>	<u>27</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>31</u>
<u>Baoshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>12</u>	<u>1</u>	<u>2</u>	<u>22</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>10</u>	<u>9</u>	<u>1</u>	<u>3</u>	<u>24</u>

<u>Chuxiong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>23</u>	<u>2</u>	<u>12</u>	<u>42</u>	<u>27</u>	<u>3</u>	<u>12</u>	<u>56</u>	<u>19</u>	<u>2</u>	<u>10</u>	<u>44</u>
<u>Dali</u>	<u>Yunnan</u>	<u>NEC</u>	<u>6</u>	<u>0</u>	<u>4</u>	<u>9</u>	<u>6</u>	<u>1</u>	<u>3</u>	<u>10</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>7</u>
<u>Dehong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>6</u>	<u>32</u>	<u>12</u>	<u>2</u>	<u>2</u>	<u>19</u>	<u>15</u>	<u>1</u>	<u>5</u>	<u>32</u>
<u>Honghe</u>	<u>Yunnan</u>	<u>NEC</u>	<u>19</u>	<u>4</u>	<u>4</u>	<u>66</u>	<u>31</u>	<u>7</u>	<u>9</u>	<u>97</u>	<u>22</u>	<u>4</u>	<u>6</u>	<u>96</u>
<u>Kunming</u>	<u>Yunnan</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>6</u>	<u>20</u>	<u>16</u>	<u>2</u>	<u>7</u>	<u>38</u>	<u>12</u>	<u>1</u>	<u>7</u>	<u>22</u>
<u>Lijiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>5</u>	<u>17</u>	<u>8</u>	<u>0</u>	<u>6</u>	<u>11</u>	<u>8</u>	<u>0</u>	<u>3</u>	<u>12</u>
<u>Lincang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>17</u>	<u>3</u>	<u>4</u>	<u>50</u>	<u>18</u>	<u>3</u>	<u>3</u>	<u>43</u>	<u>22</u>	<u>2</u>	<u>11</u>	<u>48</u>
<u>Nujiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>13</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>9</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>16</u>
<u>Qujing</u>	<u>Yunnan</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>9</u>	<u>35</u>	<u>24</u>	<u>2</u>	<u>17</u>	<u>37</u>	<u>17</u>	<u>1</u>	<u>10</u>	<u>33</u>
<u>Wenshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>3</u>	<u>23</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>14</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>20</u>
<u>Xishuangbanna</u>	<u>Yunnan</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>19</u>	<u>8</u>	<u>0</u>	<u>6</u>	<u>10</u>	<u>8</u>	<u>0</u>	<u>2</u>	<u>12</u>
<u>Tuxi</u>	<u>Yunnan</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>6</u>	<u>18</u>	<u>17</u>	<u>1</u>	<u>9</u>	<u>26</u>	<u>13</u>	<u>1</u>	<u>9</u>	<u>23</u>
<u>Zhaotong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>32</u>	<u>5</u>	<u>4</u>	<u>60</u>	<u>47</u>	<u>7</u>	<u>15</u>	<u>103</u>	<u>27</u>	<u>2</u>	<u>11</u>	<u>52</u>
<u>Anshun</u>	<u>Guizhou</u>	<u>NEC</u>	<u>25</u>	<u>2</u>	<u>13</u>	<u>51</u>	<u>32</u>	<u>4</u>	<u>18</u>	<u>69</u>	<u>20</u>	<u>2</u>	<u>11</u>	<u>43</u>
<u>Bijie</u>	<u>Guizhou</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>3</u>	<u>17</u>	<u>11</u>	<u>1</u>	<u>7</u>	<u>16</u>	<u>10</u>	<u>0</u>	<u>4</u>	<u>15</u>
<u>Guiyang</u>	<u>Guizhou</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>13</u>	<u>8</u>	<u>1</u>	<u>4</u>	<u>12</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>12</u>
<u>Liupanshui</u>	<u>Guizhou</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>6</u>	<u>19</u>	<u>13</u>	<u>1</u>	<u>7</u>	<u>22</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>18</u>
<u>Tongren</u>	<u>Guizhou</u>	<u>NEC</u>	<u>7</u>	<u>1</u>	<u>3</u>	<u>16</u>	<u>8</u>	<u>1</u>	<u>5</u>	<u>16</u>	<u>7</u>	<u>0</u>	<u>3</u>	<u>10</u>
<u>Zunyi</u>	<u>Guizhou</u>	<u>NEC</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>15</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>9</u>	<u>6</u>	<u>0</u>	<u>2</u>	<u>10</u>
<u>Baise</u>	<u>Guangxi</u>	<u>NEC</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>18</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>10</u>	<u>12</u>	<u>1</u>	<u>5</u>	<u>18</u>
<u>Beihai</u>	<u>Guangxi</u>	<u>NEC</u>	<u>8</u>	<u>1</u>	<u>5</u>	<u>16</u>	<u>9</u>	<u>1</u>	<u>6</u>	<u>14</u>	<u>9</u>	<u>0</u>	<u>6</u>	<u>15</u>
<u>Chongzuo</u>	<u>Guangxi</u>	<u>NEC</u>	<u>8</u>	<u>1</u>	<u>5</u>	<u>14</u>	<u>14</u>	<u>2</u>	<u>5</u>	<u>24</u>	<u>10</u>	<u>1</u>	<u>4</u>	<u>21</u>
<u>Fangchenggang</u>	<u>Guangxi</u>	<u>NEC</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>7</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>6</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>8</u>
<u>Guigang</u>	<u>Guangxi</u>	<u>NEC</u>	<u>22</u>	<u>2</u>	<u>6</u>	<u>42</u>	<u>17</u>	<u>2</u>	<u>7</u>	<u>30</u>	<u>18</u>	<u>1</u>	<u>10</u>	<u>28</u>
<u>Guilin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>18</u>	<u>2</u>	<u>9</u>	<u>32</u>	<u>19</u>	<u>2</u>	<u>10</u>	<u>32</u>	<u>22</u>	<u>1</u>	<u>10</u>	<u>39</u>
<u>Hechi</u>	<u>Guangxi</u>	<u>NEC</u>	<u>33</u>	<u>5</u>	<u>9</u>	<u>77</u>	<u>31</u>	<u>4</u>	<u>5</u>	<u>57</u>	<u>21</u>	<u>3</u>	<u>6</u>	<u>69</u>

<u>Hezhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>15</u>	<u>1</u>	<u>11</u>	<u>22</u>	<u>20</u>	<u>1</u>	<u>13</u>	<u>30</u>	<u>16</u>	<u>1</u>	<u>8</u>	<u>23</u>
<u>Laibin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>25</u>	<u>4</u>	<u>6</u>	<u>68</u>	<u>14</u>	<u>2</u>	<u>5</u>	<u>32</u>	<u>20</u>	<u>2</u>	<u>7</u>	<u>54</u>
<u>Liuzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>20</u>	<u>2</u>	<u>10</u>	<u>36</u>	<u>26</u>	<u>2</u>	<u>12</u>	<u>37</u>	<u>24</u>	<u>2</u>	<u>10</u>	<u>41</u>
<u>Nanning</u>	<u>Guangxi</u>	<u>NEC</u>	<u>11</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>21</u>	<u>11</u>	<u>0</u>	<u>8</u>	<u>17</u>
<u>Qinzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>18</u>	<u>14</u>	<u>1</u>	<u>8</u>	<u>21</u>	<u>14</u>	<u>1</u>	<u>9</u>	<u>24</u>
<u>Wuzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>16</u>	<u>1</u>	<u>9</u>	<u>22</u>	<u>15</u>	<u>1</u>	<u>7</u>	<u>23</u>	<u>13</u>	<u>1</u>	<u>8</u>	<u>23</u>
<u>Yulin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>15</u>	<u>2</u>	<u>6</u>	<u>36</u>	<u>15</u>	<u>2</u>	<u>6</u>	<u>34</u>	<u>22</u>	<u>4</u>	<u>4</u>	<u>107</u>
<u>Golog</u>	<u>Qinghai</u>	<u>NEC</u>	<u>23</u>	<u>1</u>	<u>18</u>	<u>26</u>	<u>16</u>	<u>1</u>	<u>12</u>	<u>26</u>	<u>25</u>	<u>1</u>	<u>15</u>	<u>33</u>
<u>Haidong</u>	<u>Qinghai</u>	<u>NEC</u>	<u>21</u>	<u>2</u>	<u>7</u>	<u>44</u>	<u>34</u>	<u>2</u>	<u>25</u>	<u>51</u>	<u>33</u>	<u>3</u>	<u>13</u>	<u>69</u>
<u>Xining</u>	<u>Qinghai</u>	<u>NEC</u>	<u>17</u>	<u>2</u>	<u>7</u>	<u>38</u>	<u>26</u>	<u>2</u>	<u>9</u>	<u>37</u>	<u>18</u>	<u>2</u>	<u>5</u>	<u>36</u>
<u>Ali</u>	<u>Tibet</u>	<u>NEC</u>	<u>13</u>	<u>0</u>	<u>7</u>	<u>15</u>	<u>9</u>	<u>0</u>	<u>8</u>	<u>11</u>	<u>8</u>	<u>0</u>	<u>2</u>	<u>11</u>
<u>Qamdo</u>	<u>Tibet</u>	<u>NEC</u>	<u>4</u>	<u>0</u>	<u>3</u>	<u>5</u>	<u>4</u>	<u>0</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>0</u>	<u>4</u>	<u>7</u>
<u>Lhasa</u>	<u>Tibet</u>	<u>NEC</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>9</u>	<u>7</u>	<u>0</u>	<u>5</u>	<u>9</u>	<u>10</u>	<u>0</u>	<u>8</u>	<u>14</u>
<u>Nyingchi</u>	<u>Tibet</u>	<u>NEC</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>0</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>0</u>	<u>3</u>	<u>4</u>
<u>Naqu</u>	<u>Tibet</u>	<u>NEC</u>	<u>25</u>	<u>0</u>	<u>21</u>	<u>29</u>	<u>27</u>	<u>0</u>	<u>24</u>	<u>30</u>	<u>26</u>	<u>1</u>	<u>20</u>	<u>31</u>
<u>Shigatse</u>	<u>Tibet</u>	<u>NEC</u>	<u>6</u>	<u>0</u>	<u>3</u>	<u>7</u>	<u>6</u>	<u>0</u>	<u>6</u>	<u>7</u>	<u>6</u>	<u>0</u>	<u>3</u>	<u>7</u>
<u>Lhoka</u>	<u>Tibet</u>	<u>NEC</u>	<u>4</u>	<u>0</u>	<u>3</u>	<u>5</u>	<u>3</u>	<u>0</u>	<u>3</u>	<u>4</u>	<u>3</u>	<u>0</u>	<u>3</u>	<u>5</u>

182 ^a EC and NEC denote emission control and non-emission control regions, respectively, of which the latter means regions without implementation
 183 of emission control measures.

184 ^b The pre-Parade Blue, Parade Blue, and post-Parade Blue periods indicate the periods of 1-19 August, 20 August-3 September, and 4-30
 185 September 2015, respectively.

186

187

188

189

190

191

192 **Table S6.** Summary statistical of daily average SO_2 concentrations ($\mu\text{g m}^{-3}$) during the pre Parade Blue and Parade Blue periods in the 291 cities
193 across China.

City	Province	Region	The Pre Parade Blue period				The Parade Blue period				Reduction or Increase	
			Mean	Standard Error	Min	Max	—	Mean	Standard Error	Min	Max	
Beijing	Municipality	NC	3	0	2	7	—	2	0	2	3	-34
Tianjin	Municipality	NC	10	1	4	16	—	10	1	4	23	-2
Baoding	Hebei	NC	17	1	11	25	—	10	1	6	16	-41
Cangzhou	Hebei	NC	3	0	2	7	—	2	0	2	3	-34
Chengde	Hebei	NC	9	1	5	18	—	6	1	3	18	-27
Handan	Hebei	NC	28	2	16	48	—	34	5	9	62	21
Hengshui	Hebei	NC	17	1	10	23	—	12	1	3	20	-32
Langfang	Hebei	NC	9	1	4	19	—	4	0	2	8	-56
Qinhuangdao	Hebei	NC	32	3	17	48	—	18	2	10	46	-43
Shijiazhuang	Hebei	NC	19	2	7	39	—	13	1	6	19	-33
Tangshan	Hebei	NC	29	3	12	64	—	29	4	13	68	+
Xingtai	Hebei	NC	25	4	8	74	—	18	4	3	45	-27
Zhangjiakou	Hebei	NC	12	1	7	19	—	12	1	9	22	0
Changzhi	Shanxi	NC	32	2	18	59	—	28	3	10	50	-12
Datong	Shanxi	NC	20	2	12	37	—	18	1	12	28	-9
Jincheng	Shanxi	NC	29	2	14	46	—	25	2	12	38	-12

Jinzhong	Shanxi	NC	43	3-	3-	37	16	2-	7	29	21
Linfen	Shanxi	NC	47	+	7	32	14	+	8	23	14
Lvliang	Shanxi	NC	43	2-	31	56	24	2-	13	42	45
Shuozhou	Shanxi	NC	39	3-	18	60	37	3-	17	52	3-
Taiyuan	Shanxi	NC	21	2-	9	43	18	+	11	24	13
Xinzhou	Shanxi	NC	41	3-	23	58	32	+	21	39	22
Yangquan	Shanxi	NC	24	2-	7	36	21	2-	7	35	11
Yuncheng	Shanxi	NC	49	+	9	34	45	6-	20	101	140
Binzhou	Shandong	NC	30	4-	9	87	26	3-	11	60	15
Dezhou	Shandong	NC	48	2-	5	35	21	2-	11	41	13
Dongying	Shandong	NC	45	3-	21	81	31	3-	16	57	31
Jinan	Shandong	NC	21	+	12	32	20	2-	12	33	2
Jining	Shandong	NC	36	3-	21	88	43	3-	21	66	19
Laiwu	Shandong	NC	22	3-	6	46	32	2-	15	42	46
Liaocheng	Shandong	NC	20	2-	7	36	21	2-	12	45	6
Linyi	Shandong	NC	45	2-	5	42	20	+	13	32	33
Qingdao	Shandong	NC	47	+	12	28	20	+	14	33	16
Rizhao	Shandong	NC	43	+	8	23	16	+	11	26	20
Tai'an	Shandong	NC	20	2-	8	34	28	2-	14	46	42
Weihai	Shandong	NC	10	+	3	20	13	+	8	18	29
Weifang	Shandong	NC	49	2-	11	38	27	3-	13	62	41
Yantai	Shandong	NC	11	+	5	18	12	+	7	15	15
Zaozhuang	Shandong	NC	36	3-	14	57	60	3-	43	82	66
Zibo	Shandong	NC	54	6-	21	94	61	8-	22	114	14
Aixa League	Inner Mongolia	NC	5-	+	+	11	7-	+	2-	13	45
Bayannur	Inner Mongolia	NC	42	+	5-	21	18-	+	10-	27	46

Baotou	Inner Mongolia	NC	25	2	11	37	20	2	9	29	22
Chifeng	Inner Mongolia	NC	14	+	9	25	12	+	8	18	15
Ordos	Inner Mongolia	NC	11	+	4	22	14	+	7	26	26
Hohhot	Inner Mongolia	NC	12	+	9	18	8	0	5	12	30
Hulun Buir	Inner Mongolia	NC	2	0	+	4	3	0	+	7	45
Tongliao	Inner Mongolia	NC	12	+	6	19	8	+	4	15	29
Wuhai	Inner Mongolia	NC	48	7	6	122	34	7	4	95	29
Hinggan League	Inner Mongolia	NC	5	0	2	9	3	0	2	6	32
Anyang	Henan	NC	14	2	5	31	26	3	13	40	87
Hebi	Henan	NC	18	+	12	30	17	2	9	28	7
Jiaozuo	Henan	NC	20	2	5	33	23	2	10	37	15
Kaifeng	Henan	NC	13	+	10	19	16	+	10	28	24
Luoyang	Henan	NC	24	3	7	50	20	2	8	30	15
Luohe	Henan	NC	13	+	7	30	16	+	12	21	22
Nanyang	Henan	NC	22	+	10	33	22	1	15	29	3
Pingdingshan	Henan	NC	32	2	15	49	32	2	23	46	+
Sanmenxia	Henan	NC	18	+	8	28	25	2	13	42	41
Shangqiu	Henan	NC	10	+	5	15	18	+	13	22	74
Xinyang	Henan	NC	17	+	9	25	16	+	11	21	7
Zhengzhou	Henan	NC	5	+	2	12	9	+	5	15	73
Zhoukou	Henan	NC	7	0	6	9	9	0	6	11	21
Zhumadian	Henan	NC	26	2	7	45	45	8	16	141	70
Anshan	Liaoning	NE	14	+	7	25	19	+	12	26	35
Benxi	Liaoning	NE	7	0	6	12	12	+	7	18	60
Chaoyang	Liaoning	NE	9	+	4	13	10	+	7	15	15
Dalian	Liaoning	NE	8	+	3	16	10	+	6	16	22

Dandong	Liaoning	NE	7-	0-	5-	9-	9-	+	7-	+3-	28-
Fushun	Liaoning	NE	7-	+	3-	+2-	8-	+	5-	+3-	15-
Fuxin	Liaoning	NE	29-	3-	+2-	64-	30-	2-	22-	49-	4-
Huludao	Liaoning	NE	20-	3-	7-	56-	29-	2-	20-	43-	42-
Jinzhou	Liaoning	NE	25-	+	+8-	39-	+7-	+	+2-	27-	30-
Liaoyang	Liaoning	NE	8-	+	4-	+3-	+3-	+	8-	22-	58-
Panjin	Liaoning	NE	+2-	+	6-	+21-	+8-	+	+3-	27-	51-
Shenyang	Liaoning	NE	+2-	+	4-	+24-	+0-	+	6-	+6-	+8-
Tieling	Liaoning	NE	+0-	+	5-	+19-	+0-	+	6-	+3-	6-
Wafangdian	Liaoning	NE	2-	0-	+	4-	3-	0-	2-	7-	51-
Yingkou	Liaoning	NE	+1-	+	6-	+16-	+1-	+	8-	+8-	3-
Baicheng	Jilin	NE	6-	0-	4-	+12-	6-	0-	2-	9-	+
Baishan	Jilin	NE	+0-	+	5-	+23-	8-	+	4-	+12-	-25-
Changchun	Jilin	NE	6-	0-	3-	8-	6-	+	4-	+10-	8-
Jilin	Jilin	NE	+0-	+	7-	+19-	+4-	+	9-	+26-	41-
Liaoyuan	Jilin	NE	6-	+	4-	+23-	9-	+	4-	+18-	51-
Siping	Jilin	NE	+0-	2-	3-	+43-	6-	+	+	+12-	-35-
Songyuan	Jilin	NE	5-	+	2-	+26-	2-	0-	+	4-	-46-
Daqing	Heilongjiang	NE	9-	+	7-	+15-	9-	+	7-	+6-	8-
Daxing'anling	Heilongjiang	NE	+5-	+	+10-	+24-	+4-	0-	+12-	+7-	-6-
Harbin	Heilongjiang	NE	5-	0-	3-	7-	5-	0-	4-	6-	+
Hegang	Heilongjiang	NE	2-	0-	+	3-	2-	0-	+	5-	7-
Heihe	Heilongjiang	NE	+0-	0-	8-	+12-	+2-	+	8-	+24-	21-
Jixi	Heilongjiang	NE	8-	+	4-	+14-	+5-	0-	+13-	20-	88-
Jiamusi	Heilongjiang	NE	7-	+	3-	+23-	5-	0-	3-	7-	-39-
Mudanjiang	Heilongjiang	NE	7-	0-	5-	+10-	8-	0-	5-	+10-	+8-

Qitaihe	Heilongjiang	NE	18	0	16	21	17	+	14	29	+
Qiqihar	Heilongjiang	NE	13	2	8	32	5	+	+	11	61
Shuangyashan	Heilongjiang	NE	14	+	9	31	10	+	6	18	28
Suihua	Heilongjiang	NE	9	+	3	18	9	+	4	14	5
Ankang	Shaanxi	NW	11	+	3	23	11	+	6	16	2
Baoji	Shaanxi	NW	3	0	2	4	5	0	3	7	78
Hanzhong	Shaanxi	NW	7	0	3	10	10	+	3	13	50
Shangluo	Shaanxi	NW	21	4	4	61	19	3	5	44	8
Tongchuan	Shaanxi	NW	4	0	2	7	9	+	6	14	144
Weinan	Shaanxi	NW	10	+	4	15	13	+	6	23	36
Xi'an	Shaanxi	NW	7	0	2	10	13	+	8	18	95
Xianyang	Shaanxi	NW	11	0	8	16	14	+	7	20	20
Yan'an	Shaanxi	NW	7	0	6	9	10	0	8	12	35
Yulin	Shaanxi	NW	5	+	2	10	8	+	3	11	41
Baiying	Gansu	NW	24	5	3	97	71	12	14	161	193
Dingxi	Gansu	NW	8	2	3	33	7	+	3	10	21
Gannan	Gansu	NW	9	2	3	33	7	0	5	9	24
Jiayuguan	Gansu	NW	21	2	11	39	11	2	6	31	45
Jiuquan	Gansu	NW	9	+	3	27	7	2	2	24	20
Lanzhou	Gansu	NW	12	+	6	23	11	+	5	17	2
Linxia	Gansu	NW	8	+	2	12	10	0	8	13	29
Pingliang	Gansu	NW	9	+	3	23	9	+	1	15	0
Qingyang	Gansu	NW	5	0	3	8	6	0	2	9	26
Tianshui	Gansu	NW	8	0	5	14	6	0	4	9	21
Wuwei	Gansu	NW	7	0	5	10	9	0	7	13	28
Zhangye	Gansu	NW	13	0	10	16	15	+	11	20	17

Guyuan	Ningxia	NW	7-	+	3-	13-	8-	+	3-	15-	21-
Shizuishan	Ningxia	NW	55-	4-	27-	90-	37-	4-	12-	62-	33-
Wuzhong	Ningxia	NW	11-	2-	2-	24-	18-	2-	3-	30-	62-
Yinchuan	Ningxia	NW	15-	2-	3-	29-	21-	2-	5-	30-	41-
Zhongwei	Ningxia	NW	11-	2-	5-	27-	18-	2-	2-	29-	64-
Aksu	Sinkiang	NW	6-	+	+	13-	5-	+	2-	15-	20-
Hami	Sinkiang	NW	6-	+	+	16-	5-	+	+	14-	6-
Hotan	Sinkiang	NW	38-	4-	9-	74-	27-	4-	8-	55-	30-
Kashgar	Sinkiang	NW	10-	+	5-	16-	9-	+	6-	14-	12-
Karamay	Sinkiang	NW	7-	0-	4-	11-	9-	+	4-	20-	19-
Kizilsu	Sinkiang	NW	5-	2-	0-	27-	6-	+	2-	16-	8-
Shihezi	Sinkiang	NW	9-	+	2-	25-	8-	+	2-	14-	8-
Urumchi	Sinkiang	NW	10-	+	2-	18-	9-	+	2-	15-	6-
Wujiachu	Sinkiang	NW	9-	3-	+	56-	13-	3-	4-	44-	48-
Yili	Sinkiang	NW	7-	0-	4-	9-	7-	0-	4-	10-	11-
Ezhou	Hubei	SE	16-	2-	5-	34-	15-	+	9-	25-	9-
Huanggang	Hubei	SE	10-	2-	+	29-	7-	+	3-	15-	28-
Jingmen	Hubei	SE	14-	+	7-	27-	17-	+	10-	21-	18-
Shiyan	Hubei	SE	18-	+	10-	23-	22-	+	15-	33-	25-
Wuhan	Hubei	SE	12-	+	8-	18-	14-	+	9-	18-	17-
Xianming	Hubei	SE	14-	+	9-	22-	14-	+	10-	19-	0-
Xiangyang	Hubei	SE	10-	+	3-	20-	12-	+	7-	18-	21-
Xiaogan	Hubei	SE	5-	+	+	23-	6-	+	2-	19-	3-
Yichang	Hubei	SE	9-	+	5-	24-	11-	+	8-	19-	17-
Anqing	Anhui	SE	14-	+	10-	18-	15-	0-	13-	17-	10-
Bengbu	Anhui	SE	14-	+	5-	23-	18-	+	14-	23-	28-

Bozhou	Anhui	SE	40	2	27	59	40	3	15	61	2
Chuzhou	Anhui	SE	16	+	12	22	12	+	6	18	24
Fuyang	Anhui	SE	16	+	13	23	19	+	14	34	17
Hefei	Anhui	SE	8	+	6	14	7	0	4	9	18
Huainan	Anhui	SE	28	2	18	48	25	+	16	34	11
Huangshan	Anhui	SE	7	0	5	8	8	0	7	9	19
Lu'an	Anhui	SE	21	5	5	68	10	0	9	13	50
Ma'anshan	Anhui	SE	14	2	5	31	19	2	11	29	37
Suzhou	Anhui	SE	9	+	5	14	11	+	7	18	32
Tongling	Anhui	SE	29	3	10	69	36	3	18	64	26
Wuhu	Anhui	SE	22	+	17	31	18	+	14	24	17
Changzhou	Jiangsu	SE	22	2	10	36	23	2	10	36	4
Huaian	Jiangsu	SE	20	2	8	41	13	+	8	18	33
Lianyungang	Jiangsu	SE	12	+	5	21	19	+	12	27	60
Nanjing	Jiangsu	SE	14	2	5	26	12	+	7	18	18
Nantong	Jiangsu	SE	25	2	12	43	25	3	9	46	1
Suzhou	Jiangsu	SE	14	+	6	21	18	2	9	39	31
Suqian	Jiangsu	SE	12	2	3	35	15	+	5	24	28
Taizhou	Jiangsu	SE	17	+	11	28	18	+	12	24	8
Wuxi	Jiangsu	SE	19	+	11	29	24	+	16	36	29
Xuzhou	Jiangsu	SE	26	+	20	41	34	3	18	57	30
Yanchen	Jiangsu	SE	14	2	5	27	14	+	10	18	3
Yangzhou	Jiangsu	SE	25	3	8	58	19	+	13	23	25
Zhenjiang	Jiangsu	SE	22	2	10	35	19	+	10	25	15
Shanghai	Municipality	SE	11	+	6	17	13	+	8	24	24

Hangzhou	Zhejiang	SE	++	+	6	17	++	+	7	19	0
Huzhou	Zhejiang	SE	10	+	4	18	14	2	4	31	44
Jiaxing	Zhejiang	SE	++	+	3	19	18	2	8	34	74
Jinhua	Zhejiang	SE	15	2	3	32	16	1	9	26	8
Lishui	Zhejiang	SE	6	+	+	12	10	+	2	21	63
Ningbo	Zhejiang	SE	10	+	6	16	13	1	9	20	25
Quzhou	Zhejiang	SE	15	2	3	32	18	2	9	34	22
Shaoxing	Zhejiang	SE	13	+	6	24	23	2	14	37	77
Taizhou	Zhejiang	SE	6	+	+	11	6	+	3	11	6
Wenjiang	Zhejiang	SE	8	+	2	12	9	+	5	13	10
Zhoushan	Zhejiang	SE	5	+	2	15	6	0	3	9	10
Fuzhou	Jiangxi	SE	14	+	3	23	18	3	6	37	33
Ganzhou	Jiangxi	SE	17	2	10	33	20	2	10	37	13
Jian	Jiangxi	SE	23	3	8	43	24	2	11	40	4
Jingdezhen	Jiangxi	SE	7	+	2	17	10	1	2	20	29
Jiujiang	Jiangxi	SE	40	+	27	52	39	2	29	49	3
Nanchang	Jiangxi	SE	26	2	12	50	26	1	20	33	0
Pingxiang	Jiangxi	SE	20	2	12	47	25	2	14	33	27
Shangrao	Jiangxi	SE	44	4	10	72	44	5	20	99	0
Xinyu	Jiangxi	SE	25	3	5	53	22	2	8	30	11
Yichun	Jiangxi	SE	11	+	5	21	15	1	9	19	33
Yingtan	Jiangxi	SE	21	2	13	41	26	3	15	48	26
Changsha	Hunan	SE	14	+	8	20	14	1	7	20	+
Changde	Hunan	SE	17	+	6	22	14	1	10	20	18
Chenzhou	Hunan	SE	11	+	7	19	17	2	9	35	55
Huaihua	Hunan	SE	++	+	4	24	13	1	6	22	18

Loudi	Hunan	SE	29	+	16	37	33	+	26	42	16
Xiangtan	Hunan	SE	14	+	6	22	16	+	9	29	10
Yiyang	Hunan	SE	17	+	8	25	23	+	17	31	38
Yongzhou	Hunan	SE	39	2	17	57	27	2	9	41	30
Zhangjiajie	Hunan	SE	6	0	4	9	6	0	4	7	5
Zhuzhou	Hunan	SE	17	2	8	36	18	+	7	27	4
Dongguan	Guangdong	SE	11	+	6	19	11	+	7	17	3
Foshan	Guangdong	SE	16	+	11	22	17	+	9	26	4
Guangzhou	Guangdong	SE	12	0	8	17	11	+	6	17	8
Heyuan	Guangdong	SE	7	0	4	12	7	+	3	13	5
Huizhou	Guangdong	SE	10	+	7	14	9	+	7	16	4
Jiangmen	Guangdong	SE	12	+	9	17	18	+	8	28	55
Maoming	Guangdong	SE	12	2	5	33	16	2	9	30	32
Meizhou	Guangdong	SE	7	0	5	9	6	0	4	8	11
Qingyuan	Guangdong	SE	18	+	12	25	10	+	5	15	44
Shantou	Guangdong	SE	14	+	9	18	13	+	8	18	10
Shaoguan	Guangdong	SE	19	+	11	28	16	+	9	24	18
Shenzhen	Guangdong	SE	9	0	6	13	8	+	6	12	11
Zhanjiang	Guangdong	SE	9	+	5	14	6	+	2	9	33
Zhaoqing	Guangdong	SE	19	+	10	28	17	2	9	28	8
Zhongshan	Guangdong	SE	7	+	4	17	8	+	4	17	20
Zhuhai	Guangdong	SE	5	+	2	14	8	+	3	15	45
Fuzhou	Fujian	SE	5	0	3	6	4	0	3	6	19
Longyan	Fujian	SE	7	+	3	12	6	0	4	9	6
Nanping	Fujian	SE	12	0	8	15	15	+	11	21	23
Ningde	Fujian	SE	2	0	+	5	3	0	+	5	17

Putian	Fujian	SE	5-	+	2-	11-	4-	0-	2-	7-	15-
Quanzhou	Fujian	SE	13-	+	3-	25-	9-	+	6-	17-	36-
Sanming	Fujian	SE	13-	+	4-	19-	10-	+	4-	19-	20-
Xiamen	Fujian	SE	9-	+	3-	16-	6-	+	2-	12-	38-
Zhangzhou	Fujian	SE	9-	+	5-	16-	11-	+	7-	19-	23-
Haikou	Hainan	SE	5-	0-	3-	10-	5-	0-	3-	8-	10-
Sanya	Hainan	SE	3-	0-	2-	7-	2-	0-	2-	3-	15-
Chongqing	Municipality	SW	10-	+	4-	16-	12-	+	7-	16-	16-
Bazhong	Sichuan	SW	2-	0-	1-	5-	2-	0-	1-	5-	5-
Chengdu	Sichuan	SW	13-	+	7-	20-	15-	+	7-	24-	10-
Dazhou	Sichuan	SW	15-	+	6-	31-	12-	+	7-	19-	19-
Deyang	Sichuan	SW	17-	+	7-	30-	14-	+	4-	23-	16-
Guangyuan	Sichuan	SW	17-	+	12-	22-	16-	+	13-	23-	5-
Leshan	Sichuan	SW	14-	+	6-	25-	19-	3-	6-	38-	36-
Luzhou	Sichuan	SW	12-	+	6-	20-	15-	2-	6-	27-	25-
Meishan	Sichuan	SW	15-	+	8-	26-	13-	2-	2-	30-	17-
Mianyang	Sichuan	SW	10-	+	4-	21-	11-	+	5-	18-	13-
Nanchong	Sichuan	SW	12-	+	5-	18-	10-	+	5-	22-	17-
Panzhihua	Sichuan	SW	23-	2-	12-	44-	30-	2-	19-	44-	29-
Suining	Sichuan	SW	10-	+	3-	19-	7-	+	4-	17-	27-
Ya'an	Sichuan	SW	14-	2-	6-	56-	8-	0-	6-	10-	46-
Ziyang	Sichuan	SW	21-	2-	12-	36-	22-	+	17-	30-	2-
Zigong	Sichuan	SW	16-	+	9-	27-	19-	+	11-	27-	20-
Baoshan	Yunnan	SW	12-	+	2-	22-	5-	+	4-	10-	61-
Chuxiong	Yunnan	SW	23-	2-	12-	42-	27-	3-	12-	56-	17-
Dali	Yunnan	SW	6-	0-	4-	9-	6-	+	3-	10-	+

Dehong	Yunnan	SW	20	2	6	32	12	2	2	19	39
Honghe	Yunnan	SW	19	4	4	66	31	7	9	97	62
Kunming	Yunnan	SW	13	+	6	20	16	2	7	38	21
Lijiang	Yunnan	SW	11	+	5	17	8	0	6	11	23
Lineang	Yunnan	SW	17	3	4	50	18	3	3	43	7
Nujiang	Yunnan	SW	8	+	4	13	7	0	5	9	3
Qujing	Yunnan	SW	20	2	9	35	24	2	17	37	25
Wenshan	Yunnan	SW	10	+	3	23	8	+	4	14	14
Xishuangbanna	Yunnan	SW	10	+	6	19	8	0	6	10	25
Tuxi	Yunnan	SW	13	+	6	18	17	+	9	26	34
Zhaotong	Yunnan	SW	32	5	4	60	47	7	15	103	48
Anshun	Guizhou	SW	25	2	13	51	32	4	18	69	30
Bijie	Guizhou	SW	10	+	3	17	11	+	7	16	15
Guiyang	Guizhou	SW	7	0	5	13	8	+	4	12	9
Liupanshui	Guizhou	SW	10	+	6	19	13	+	7	22	38
Tongren	Guizhou	SW	7	+	3	16	8	+	5	16	25
Zunyi	Guizhou	SW	7	+	2	15	6	+	2	9	9
Baise	Guangxi	SW	10	+	5	18	7	0	5	10	32
Beihai	Guangxi	SW	8	+	5	16	9	+	6	14	5
Chongzuo	Guangxi	SW	8	+	5	14	14	2	5	24	62
Fangchenggang	Guangxi	SW	4	0	2	7	3	0	2	6	14
Guigang	Guangxi	SW	22	2	6	42	17	2	7	30	23
Guilin	Guangxi	SW	18	2	9	32	19	2	10	32	9
Hechi	Guangxi	SW	33	5	9	77	31	4	5	57	6
Hezhou	Guangxi	SW	15	+	11	22	20	+	13	30	30
Laibin	Guangxi	SW	25	4	6	68	14	2	5	32	43

Liu Zhou	Guangxi	SW	20	2	10	36	26	2	12	37	31
Nanning	Guangxi	SW	11	+	8	18	13	+	8	21	18
Qin Zhou	Guangxi	SW	13	+	8	18	14	+	8	21	8
Wu Zhou	Guangxi	SW	16	+	9	22	15	+	7	23	7
Yulin	Guangxi	SW	15	2	6	36	15	2	6	34	4
Geleg	Qinghai	TP	23	+	18	26	16	+	12	26	28
Haidong	Qinghai	TP	21	2	7	44	34	2	25	51	65
Xining	Qinghai	TP	17	2	7	38	26	2	9	37	51
Ali	Tibet	TP	13	0	7	15	9	0	8	11	31
Qamdo	Tibet	TP	4	0	3	5	4	0	3	4	6
Lhasa	Tibet	TP	7	0	5	9	7	0	5	9	4
Nyingchi	Tibet	TP	3	0	2	3	3	0	3	3	3
Naqu	Tibet	TP	25	0	21	29	27	0	24	30	8
Shigatse	Tibet	TP	6	0	3	7	6	0	6	7	9
Lhoka	Tibet	TP	4	0	3	5	—	3	0	3	4

^aNC, NE, NW, SE, SW, TP represent north China, northeast China, northwest China, southeast China, southwest China, and the Tibetan Plateau, respectively.

^bNegative values with red color mean significant ($p < 0.05$ or 0.01) reduction, and positive values mean increase.

194

195

196

197

198

199

200

201

Table S6. Summary of daily average CO concentrations (mg m^{-3}) during the pre-Parade Blue, Parade Blue and post-Parade Blue periods in the 291 cities across China.

<u>City</u>	<u>Province</u>	<u>Region^a</u>	<u>Pre-Parade Blue period^b</u>				<u>Parade Blue period^b</u>				<u>Post-Parade Blue period^b</u>			
			<u>Mean</u>	<u>SE</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>SE</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>SE</u>	<u>Min</u>	<u>Max</u>
Beijing	Municipality	EC	0.90	0.06	0.51	1.42	0.56	0.04	0.43	0.94	0.84	0.06	0.35	1.48
Tianjing	Municipality	EC	0.97	0.05	0.67	1.40	1.04	0.08	0.61	1.79	0.89	0.06	0.39	1.88
Baoding	Hebei	EC	1.01	0.07	0.51	1.74	0.64	0.05	0.34	1.08	0.81	0.06	0.26	1.39
Cangzhou	Hebei	EC	0.90	0.06	0.51	1.42	0.56	0.04	0.43	0.94	0.94	0.07	0.39	1.98
Chengde	Hebei	EC	0.78	0.04	0.48	1.04	0.49	0.02	0.38	0.75	0.65	0.05	0.30	1.25
Handan	Hebei	EC	0.99	0.07	0.48	1.51	1.51	0.23	0.67	3.55	1.20	0.13	0.58	3.63
Hengshui	Hebei	EC	1.09	0.03	0.85	1.33	1.00	0.04	0.74	1.36	1.37	0.06	0.78	1.96
Langfang	Hebei	EC	1.13	0.08	0.65	1.92	0.79	0.10	0.38	1.81	1.08	0.08	0.25	1.74
Qinhuangdao	Hebei	EC	1.38	0.15	0.38	2.46	0.63	0.10	0.36	1.87	1.16	0.13	0.35	2.45
Shijiazhuang	Hebei	EC	0.66	0.05	0.36	1.17	0.57	0.05	0.24	0.95	1.03	0.08	0.40	1.96
Tangshan	Hebei	EC	1.81	0.21	0.84	4.53	1.89	0.23	0.59	3.91	1.99	0.19	0.49	4.76
Xingtai	Hebei	EC	1.12	0.12	0.51	2.40	0.93	0.11	0.33	1.70	1.27	0.09	0.49	2.17
Zhangjiakou	Hebei	EC	0.51	0.02	0.37	0.66	0.45	0.02	0.37	0.58	0.63	0.03	0.33	1.03
Changzhi	Shanxi	EC	1.42	0.08	1.01	2.06	1.57	0.04	1.30	1.79	1.57	0.05	1.18	2.44
Datong	Shanxi	EC	0.79	0.01	0.69	0.88	0.87	0.02	0.77	1.00	1.14	0.04	0.79	1.49
Jincheng	Shanxi	EC	1.71	0.19	0.59	3.97	1.64	0.15	0.78	2.83	1.25	0.08	0.67	2.64
Jinzhong	Shanxi	EC	0.88	0.05	0.61	1.31	0.59	0.03	0.36	0.82	1.03	0.05	0.42	1.45
Linfen	Shanxi	EC	1.59	0.07	1.13	2.32	1.64	0.04	1.34	1.94	2.07	0.05	1.45	2.66
Lvliang	Shanxi	EC	1.73	0.04	1.47	2.13	1.85	0.03	1.63	2.00	2.48	0.05	1.97	2.90
Shuozhou	Shanxi	EC	1.26	0.04	0.84	1.51	1.11	0.02	1.01	1.27	1.24	0.04	0.88	1.76
Taiyuan	Shanxi	EC	0.85	0.03	0.68	1.15	0.84	0.03	0.71	1.08	1.17	0.03	0.71	1.51

<u>Xinzhou</u>	<u>Shanxi</u>	<u>EC</u>	<u>1.00</u>	<u>0.03</u>	<u>0.70</u>	<u>1.31</u>	<u>1.84</u>	<u>0.43</u>	<u>0.84</u>	<u>7.71</u>	<u>1.21</u>	<u>0.05</u>	<u>0.82</u>	<u>1.73</u>
<u>Yangquan</u>	<u>Shanxi</u>	<u>EC</u>	<u>0.85</u>	<u>0.03</u>	<u>0.67</u>	<u>1.14</u>	<u>0.63</u>	<u>0.02</u>	<u>0.52</u>	<u>0.85</u>	<u>0.95</u>	<u>0.05</u>	<u>0.34</u>	<u>1.50</u>
<u>Yuncheng</u>	<u>Shanxi</u>	<u>EC</u>	<u>2.11</u>	<u>0.05</u>	<u>1.77</u>	<u>2.49</u>	<u>2.30</u>	<u>0.15</u>	<u>1.02</u>	<u>3.17</u>	<u>1.61</u>	<u>0.06</u>	<u>1.16</u>	<u>2.31</u>
<u>Binzhou</u>	<u>Shandong</u>	<u>EC</u>	<u>1.71</u>	<u>0.08</u>	<u>1.17</u>	<u>2.32</u>	<u>1.45</u>	<u>0.07</u>	<u>1.12</u>	<u>2.24</u>	<u>1.46</u>	<u>0.06</u>	<u>0.88</u>	<u>2.29</u>
<u>Dezhou</u>	<u>Shandong</u>	<u>EC</u>	<u>1.92</u>	<u>0.05</u>	<u>1.62</u>	<u>2.34</u>	<u>1.66</u>	<u>0.06</u>	<u>1.32</u>	<u>2.08</u>	<u>1.76</u>	<u>0.08</u>	<u>1.11</u>	<u>2.65</u>
<u>Dongying</u>	<u>Shandong</u>	<u>EC</u>	<u>1.00</u>	<u>0.07</u>	<u>0.61</u>	<u>1.50</u>	<u>0.87</u>	<u>0.05</u>	<u>0.60</u>	<u>1.12</u>	<u>0.94</u>	<u>0.05</u>	<u>0.50</u>	<u>1.31</u>
<u>Jinan</u>	<u>Shandong</u>	<u>EC</u>	<u>0.92</u>	<u>0.05</u>	<u>0.57</u>	<u>1.33</u>	<u>0.97</u>	<u>0.04</u>	<u>0.76</u>	<u>1.25</u>	<u>1.16</u>	<u>0.06</u>	<u>0.50</u>	<u>1.66</u>
<u>Jining</u>	<u>Shandong</u>	<u>EC</u>	<u>0.99</u>	<u>0.04</u>	<u>0.72</u>	<u>1.26</u>	<u>0.92</u>	<u>0.04</u>	<u>0.70</u>	<u>1.19</u>	<u>0.97</u>	<u>0.05</u>	<u>0.59</u>	<u>1.50</u>
<u>Laiwu</u>	<u>Shandong</u>	<u>EC</u>	<u>1.28</u>	<u>0.06</u>	<u>0.91</u>	<u>1.60</u>	<u>1.47</u>	<u>0.06</u>	<u>1.09</u>	<u>1.85</u>	<u>1.28</u>	<u>0.06</u>	<u>0.70</u>	<u>1.95</u>
<u>Liaocheng</u>	<u>Shandong</u>	<u>EC</u>	<u>1.39</u>	<u>0.04</u>	<u>1.16</u>	<u>1.72</u>	<u>1.18</u>	<u>0.05</u>	<u>0.86</u>	<u>1.50</u>	<u>1.50</u>	<u>0.06</u>	<u>0.92</u>	<u>2.30</u>
<u>Linyi</u>	<u>Shandong</u>	<u>EC</u>	<u>1.09</u>	<u>0.06</u>	<u>0.75</u>	<u>1.85</u>	<u>1.17</u>	<u>0.05</u>	<u>0.86</u>	<u>1.49</u>	<u>1.17</u>	<u>0.07</u>	<u>0.52</u>	<u>2.13</u>
<u>Qingdao</u>	<u>Shandong</u>	<u>EC</u>	<u>0.62</u>	<u>0.04</u>	<u>0.33</u>	<u>0.99</u>	<u>0.63</u>	<u>0.03</u>	<u>0.48</u>	<u>0.91</u>	<u>0.61</u>	<u>0.03</u>	<u>0.41</u>	<u>1.07</u>
<u>Rizhao</u>	<u>Shandong</u>	<u>EC</u>	<u>0.81</u>	<u>0.05</u>	<u>0.49</u>	<u>1.37</u>	<u>0.95</u>	<u>0.04</u>	<u>0.72</u>	<u>1.26</u>	<u>0.98</u>	<u>0.05</u>	<u>0.61</u>	<u>1.74</u>
<u>Tai'an</u>	<u>Shandong</u>	<u>EC</u>	<u>1.45</u>	<u>0.08</u>	<u>1.13</u>	<u>2.56</u>	<u>1.24</u>	<u>0.06</u>	<u>0.86</u>	<u>1.62</u>	<u>1.09</u>	<u>0.05</u>	<u>0.65</u>	<u>1.53</u>
<u>Weihai</u>	<u>Shandong</u>	<u>EC</u>	<u>0.68</u>	<u>0.05</u>	<u>0.39</u>	<u>1.37</u>	<u>0.54</u>	<u>0.02</u>	<u>0.37</u>	<u>0.67</u>	<u>0.47</u>	<u>0.02</u>	<u>0.24</u>	<u>0.73</u>
<u>Weifang</u>	<u>Shandong</u>	<u>EC</u>	<u>0.71</u>	<u>0.06</u>	<u>0.34</u>	<u>1.19</u>	<u>0.87</u>	<u>0.07</u>	<u>0.58</u>	<u>1.35</u>	<u>0.88</u>	<u>0.06</u>	<u>0.40</u>	<u>1.65</u>
<u>Yantai</u>	<u>Shandong</u>	<u>EC</u>	<u>0.70</u>	<u>0.05</u>	<u>0.41</u>	<u>1.28</u>	<u>0.49</u>	<u>0.02</u>	<u>0.34</u>	<u>0.62</u>	<u>0.56</u>	<u>0.03</u>	<u>0.35</u>	<u>0.87</u>
<u>Zaozhuang</u>	<u>Shandong</u>	<u>EC</u>	<u>0.71</u>	<u>0.05</u>	<u>0.37</u>	<u>1.00</u>	<u>0.86</u>	<u>0.02</u>	<u>0.75</u>	<u>1.04</u>	<u>0.87</u>	<u>0.04</u>	<u>0.46</u>	<u>1.55</u>
<u>Zibo</u>	<u>Shandong</u>	<u>EC</u>	<u>1.91</u>	<u>0.09</u>	<u>1.41</u>	<u>2.63</u>	<u>2.11</u>	<u>0.10</u>	<u>1.53</u>	<u>2.78</u>	<u>1.89</u>	<u>0.09</u>	<u>1.18</u>	<u>3.10</u>
<u>Alxa League</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>0.71</u>	<u>0.04</u>	<u>0.43</u>	<u>1.05</u>	<u>0.75</u>	<u>0.04</u>	<u>0.57</u>	<u>1.07</u>	<u>0.69</u>	<u>0.02</u>	<u>0.52</u>	<u>0.93</u>
<u>Bayannur</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>0.47</u>	<u>0.06</u>	<u>0.19</u>	<u>1.18</u>	<u>0.36</u>	<u>0.02</u>	<u>0.27</u>	<u>0.54</u>	<u>0.41</u>	<u>0.03</u>	<u>0.19</u>	<u>0.89</u>
<u>Baotou</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>1.01</u>	<u>0.06</u>	<u>0.60</u>	<u>1.54</u>	<u>0.98</u>	<u>0.06</u>	<u>0.60</u>	<u>1.39</u>	<u>0.99</u>	<u>0.04</u>	<u>0.58</u>	<u>1.62</u>
<u>Chifeng</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>0.86</u>	<u>0.09</u>	<u>0.35</u>	<u>1.51</u>	<u>0.54</u>	<u>0.03</u>	<u>0.39</u>	<u>0.78</u>	<u>0.67</u>	<u>0.05</u>	<u>0.34</u>	<u>1.42</u>
<u>Ordos</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>0.60</u>	<u>0.03</u>	<u>0.40</u>	<u>0.88</u>	<u>0.61</u>	<u>0.01</u>	<u>0.48</u>	<u>0.72</u>	<u>0.66</u>	<u>0.03</u>	<u>0.43</u>	<u>1.01</u>
<u>Hohhot</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>0.63</u>	<u>0.03</u>	<u>0.46</u>	<u>0.98</u>	<u>0.63</u>	<u>0.02</u>	<u>0.49</u>	<u>0.74</u>	<u>0.68</u>	<u>0.03</u>	<u>0.43</u>	<u>1.08</u>
<u>Hulun Buir</u>	<u>Inner Mongolia</u>	<u>EC</u>	<u>0.31</u>	<u>0.03</u>	<u>0.15</u>	<u>0.58</u>	<u>0.21</u>	<u>0.03</u>	<u>0.05</u>	<u>0.42</u>	<u>0.23</u>	<u>0.03</u>	<u>0.08</u>	<u>0.87</u>

Tongliao	Inner Mongolia	EC	0.75	0.05	0.52	1.21	0.51	0.01	0.40	0.65	0.57	0.04	0.26	1.07
Wuhai	Inner Mongolia	EC	0.70	0.06	0.31	1.20	0.64	0.06	0.37	1.04	0.80	0.06	0.24	1.42
Hinggan League	Inner Mongolia	EC	0.69	0.04	0.51	1.31	0.49	0.02	0.40	0.66	0.57	0.03	0.40	1.12
Anyang	Henan	EC	1.41	0.08	0.75	2.10	1.63	0.10	1.24	2.44	1.77	0.14	0.91	4.78
Hebi	Henan	EC	0.99	0.06	0.66	1.54	1.18	0.14	0.52	2.25	1.25	0.07	0.47	1.93
Jiaozuo	Henan	EC	1.50	0.05	1.14	1.79	1.38	0.09	0.90	2.00	1.40	0.05	0.87	2.13
Kaifeng	Henan	EC	1.14	0.05	0.77	1.58	1.30	0.04	1.02	1.76	1.38	0.06	0.89	1.95
Luoyang	Henan	EC	1.67	0.06	1.19	2.25	1.36	0.04	1.12	1.57	1.75	0.05	1.18	2.45
Luohe	Henan	EC	0.66	0.04	0.46	1.00	0.74	0.03	0.53	1.00	0.81	0.04	0.49	1.42
Nanyang	Henan	EC	0.69	0.06	0.31	1.22	0.70	0.02	0.57	0.90	1.03	0.05	0.68	1.71
Pingdingshan	Henan	EC	0.90	0.04	0.56	1.10	0.87	0.04	0.64	1.13	1.02	0.04	0.65	1.61
Sanmenxia	Henan	EC	1.05	0.03	0.76	1.27	1.13	0.02	0.97	1.28	1.15	0.03	0.81	1.40
Shangqiu	Henan	EC	0.59	0.05	0.28	1.14	0.64	0.03	0.47	0.88	0.69	0.04	0.34	1.33
Xinyang	Henan	EC	0.86	0.03	0.54	1.04	0.76	0.02	0.59	0.89	0.85	0.03	0.56	1.15
Zhengzhou	Henan	EC	1.05	0.04	0.77	1.43	1.12	0.04	0.87	1.42	1.30	0.05	0.83	1.95
Zhoukou	Henan	EC	1.02	0.05	0.77	1.47	1.35	0.04	1.06	1.55	1.27	0.05	0.76	1.66
Zhumadian	Henan	EC	0.50	0.04	0.26	0.87	0.65	0.03	0.46	0.83	0.68	0.04	0.34	1.17
Anshan	Liaoning	NEC	1.43	0.06	0.97	1.99	1.32	0.06	0.97	1.67	1.18	0.06	0.74	2.01
Benxi	Liaoning	NEC	1.10	0.04	0.84	1.42	1.01	0.07	0.60	1.72	1.04	0.07	0.52	1.83
Chaoyang	Liaoning	NEC	1.71	0.06	1.43	2.31	1.52	0.01	1.42	1.62	1.80	0.07	1.27	2.77
Dalian	Liaoning	NEC	0.78	0.04	0.46	1.06	0.72	0.04	0.51	1.16	0.71	0.03	0.45	1.04
Dandong	Liaoning	NEC	7.13	1.59	0.97	24.00	1.26	0.03	1.06	1.40	1.34	0.02	1.12	1.59
Fushun	Liaoning	NEC	1.05	0.04	0.77	1.46	0.94	0.03	0.71	1.15	0.98	0.05	0.51	1.57
Fuxin	Liaoning	NEC	0.86	0.08	0.45	1.51	0.55	0.03	0.44	0.88	0.80	0.05	0.41	1.46
Huludao	Liaoning	NEC	1.26	0.11	0.55	1.89	0.90	0.07	0.60	1.80	1.12	0.08	0.65	2.06
Jinzhou	Liaoning	NEC	1.17	0.09	0.68	1.95	0.65	0.04	0.47	1.08	0.94	0.05	0.55	1.69

<u>Liaoyang</u>	<u>Liaoning</u>	NEC	<u>1.07</u>	<u>0.04</u>	<u>0.75</u>	<u>1.44</u>	<u>1.14</u>	<u>0.05</u>	<u>0.89</u>	<u>1.59</u>	<u>1.06</u>	<u>0.06</u>	<u>0.54</u>	<u>1.50</u>
<u>Panjin</u>	<u>Liaoning</u>	NEC	<u>0.89</u>	<u>0.06</u>	<u>0.50</u>	<u>1.47</u>	<u>0.68</u>	<u>0.04</u>	<u>0.54</u>	<u>1.18</u>	<u>0.79</u>	<u>0.04</u>	<u>0.53</u>	<u>1.48</u>
<u>Shenyang</u>	<u>Liaoning</u>	NEC	<u>0.88</u>	<u>0.05</u>	<u>0.55</u>	<u>1.31</u>	<u>0.58</u>	<u>0.03</u>	<u>0.38</u>	<u>0.82</u>	<u>0.81</u>	<u>0.06</u>	<u>0.32</u>	<u>1.42</u>
<u>Tieling</u>	<u>Liaoning</u>	NEC	<u>0.72</u>	<u>0.06</u>	<u>0.38</u>	<u>1.13</u>	<u>0.71</u>	<u>0.03</u>	<u>0.55</u>	<u>0.97</u>	<u>0.68</u>	<u>0.04</u>	<u>0.39</u>	<u>1.02</u>
<u>Wafangdian</u>	<u>Liaoning</u>	NEC	<u>0.44</u>	<u>0.03</u>	<u>0.22</u>	<u>0.66</u>	<u>0.39</u>	<u>0.03</u>	<u>0.27</u>	<u>0.60</u>	<u>0.47</u>	<u>0.04</u>	<u>0.16</u>	<u>0.82</u>
<u>Yingkou</u>	<u>Liaoning</u>	NEC	<u>0.79</u>	<u>0.05</u>	<u>0.38</u>	<u>1.08</u>	<u>0.71</u>	<u>0.05</u>	<u>0.41</u>	<u>1.02</u>	<u>0.82</u>	<u>0.08</u>	<u>0.31</u>	<u>1.93</u>
<u>Baicheng</u>	<u>Jilin</u>	NEC	<u>0.39</u>	<u>0.02</u>	<u>0.26</u>	<u>0.56</u>	<u>0.39</u>	<u>0.03</u>	<u>0.20</u>	<u>0.62</u>	<u>0.41</u>	<u>0.03</u>	<u>0.24</u>	<u>1.16</u>
<u>Baishan</u>	<u>Jilin</u>	NEC	<u>0.83</u>	<u>0.07</u>	<u>0.54</u>	<u>1.50</u>	<u>0.72</u>	<u>0.03</u>	<u>0.51</u>	<u>0.89</u>	<u>0.90</u>	<u>0.04</u>	<u>0.61</u>	<u>1.34</u>
<u>Changchun</u>	<u>Jilin</u>	NEC	<u>0.68</u>	<u>0.03</u>	<u>0.52</u>	<u>1.08</u>	<u>0.64</u>	<u>0.04</u>	<u>0.48</u>	<u>0.91</u>	<u>0.70</u>	<u>0.04</u>	<u>0.40</u>	<u>1.10</u>
<u>Jilin</u>	<u>Jilin</u>	NEC	<u>0.63</u>	<u>0.02</u>	<u>0.49</u>	<u>0.79</u>	<u>0.64</u>	<u>0.03</u>	<u>0.45</u>	<u>0.76</u>	<u>0.68</u>	<u>0.03</u>	<u>0.42</u>	<u>0.98</u>
<u>Liaoyuan</u>	<u>Jilin</u>	NEC	<u>0.93</u>	<u>0.04</u>	<u>0.55</u>	<u>1.26</u>	<u>0.87</u>	<u>0.07</u>	<u>0.63</u>	<u>1.63</u>	<u>0.94</u>	<u>0.03</u>	<u>0.64</u>	<u>1.20</u>
<u>Siping</u>	<u>Jilin</u>	NEC	<u>0.74</u>	<u>0.08</u>	<u>0.16</u>	<u>1.65</u>	<u>0.40</u>	<u>0.05</u>	<u>0.11</u>	<u>0.84</u>	<u>0.88</u>	<u>0.09</u>	<u>0.01</u>	<u>2.17</u>
<u>Songyuan</u>	<u>Jilin</u>	NEC	<u>0.98</u>	<u>0.10</u>	<u>0.36</u>	<u>1.78</u>	<u>0.55</u>	<u>0.03</u>	<u>0.39</u>	<u>0.70</u>	<u>1.13</u>	<u>0.11</u>	<u>0.51</u>	<u>2.16</u>
<u>Daqing</u>	<u>Heilongjiang</u>	NEC	<u>0.55</u>	<u>0.02</u>	<u>0.40</u>	<u>0.66</u>	<u>0.40</u>	<u>0.02</u>	<u>0.27</u>	<u>0.58</u>	<u>0.43</u>	<u>0.02</u>	<u>0.28</u>	<u>0.70</u>
<u>Daxinganling</u>	<u>Heilongjiang</u>	NEC	<u>0.68</u>	<u>0.05</u>	<u>0.47</u>	<u>1.30</u>	<u>0.77</u>	<u>0.03</u>	<u>0.64</u>	<u>1.19</u>	<u>0.85</u>	<u>0.05</u>	<u>0.65</u>	<u>1.68</u>
<u>Harbin</u>	<u>Heilongjiang</u>	NEC	<u>0.86</u>	<u>0.02</u>	<u>0.70</u>	<u>1.05</u>	<u>0.70</u>	<u>0.04</u>	<u>0.47</u>	<u>0.95</u>	<u>0.82</u>	<u>0.02</u>	<u>0.58</u>	<u>1.05</u>
<u>Hegang</u>	<u>Heilongjiang</u>	NEC	<u>1.15</u>	<u>0.11</u>	<u>0.49</u>	<u>2.09</u>	<u>0.59</u>	<u>0.03</u>	<u>0.39</u>	<u>0.79</u>	<u>0.73</u>	<u>0.04</u>	<u>0.46</u>	<u>1.18</u>
<u>Heihe</u>	<u>Heilongjiang</u>	NEC	<u>0.40</u>	<u>0.02</u>	<u>0.32</u>	<u>0.68</u>	<u>0.34</u>	<u>0.02</u>	<u>0.20</u>	<u>0.49</u>	<u>0.30</u>	<u>0.02</u>	<u>0.17</u>	<u>0.54</u>
<u>Jixi</u>	<u>Heilongjiang</u>	NEC	<u>0.51</u>	<u>0.02</u>	<u>0.39</u>	<u>0.73</u>	<u>0.52</u>	<u>0.04</u>	<u>0.25</u>	<u>0.86</u>	<u>0.57</u>	<u>0.04</u>	<u>0.21</u>	<u>0.97</u>
<u>Jiamusi</u>	<u>Heilongjiang</u>	NEC	<u>0.81</u>	<u>0.02</u>	<u>0.70</u>	<u>0.96</u>	<u>0.67</u>	<u>0.03</u>	<u>0.53</u>	<u>0.93</u>	<u>0.79</u>	<u>0.03</u>	<u>0.57</u>	<u>1.27</u>
<u>Mudanjiang</u>	<u>Heilongjiang</u>	NEC	<u>0.45</u>	<u>0.01</u>	<u>0.36</u>	<u>0.54</u>	<u>0.42</u>	<u>0.02</u>	<u>0.30</u>	<u>0.55</u>	<u>0.46</u>	<u>0.02</u>	<u>0.32</u>	<u>0.74</u>
<u>Qitaihe</u>	<u>Heilongjiang</u>	NEC	<u>0.41</u>	<u>0.01</u>	<u>0.28</u>	<u>0.56</u>	<u>0.42</u>	<u>0.02</u>	<u>0.27</u>	<u>0.60</u>	<u>0.33</u>	<u>0.02</u>	<u>0.15</u>	<u>0.58</u>
<u>Qiqihar</u>	<u>Heilongjiang</u>	NEC	<u>0.61</u>	<u>0.03</u>	<u>0.37</u>	<u>0.92</u>	<u>0.44</u>	<u>0.02</u>	<u>0.35</u>	<u>0.64</u>	<u>0.54</u>	<u>0.02</u>	<u>0.35</u>	<u>0.81</u>
<u>Shuangyashan</u>	<u>Heilongjiang</u>	NEC	<u>0.72</u>	<u>0.05</u>	<u>0.36</u>	<u>1.34</u>	<u>0.54</u>	<u>0.06</u>	<u>0.28</u>	<u>1.00</u>	<u>0.56</u>	<u>0.03</u>	<u>0.34</u>	<u>0.89</u>
<u>Suihua</u>	<u>Heilongjiang</u>	NEC	<u>0.36</u>	<u>0.03</u>	<u>0.18</u>	<u>0.60</u>	<u>0.32</u>	<u>0.02</u>	<u>0.24</u>	<u>0.46</u>	<u>0.37</u>	<u>0.03</u>	<u>0.17</u>	<u>0.75</u>
<u>Ankang</u>	<u>Shaanxi</u>	NEC	<u>0.56</u>	<u>0.02</u>	<u>0.39</u>	<u>0.77</u>	<u>0.63</u>	<u>0.01</u>	<u>0.57</u>	<u>0.75</u>	<u>0.76</u>	<u>0.02</u>	<u>0.51</u>	<u>0.97</u>

<u>Baoji</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>0.89</u>	<u>0.03</u>	<u>0.63</u>	<u>1.14</u>	<u>0.90</u>	<u>0.04</u>	<u>0.65</u>	<u>1.12</u>	<u>0.80</u>	<u>0.03</u>	<u>0.51</u>	<u>1.11</u>
<u>Hanzhong</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>1.10</u>	<u>0.04</u>	<u>0.78</u>	<u>1.43</u>	<u>1.53</u>	<u>0.03</u>	<u>1.30</u>	<u>1.72</u>	<u>0.97</u>	<u>0.06</u>	<u>0.57</u>	<u>1.85</u>
<u>Shangluo</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>1.06</u>	<u>0.04</u>	<u>0.80</u>	<u>1.43</u>	<u>1.51</u>	<u>0.06</u>	<u>1.17</u>	<u>1.93</u>	<u>2.09</u>	<u>0.05</u>	<u>1.61</u>	<u>2.69</u>
<u>Tongchuan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>0.74</u>	<u>0.04</u>	<u>0.44</u>	<u>1.05</u>	<u>0.71</u>	<u>0.02</u>	<u>0.55</u>	<u>0.82</u>	<u>0.86</u>	<u>0.04</u>	<u>0.48</u>	<u>1.27</u>
<u>Weinan</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>0.61</u>	<u>0.02</u>	<u>0.49</u>	<u>0.73</u>	<u>0.70</u>	<u>0.03</u>	<u>0.53</u>	<u>0.86</u>	<u>1.01</u>	<u>0.05</u>	<u>0.64</u>	<u>1.53</u>
<u>Xi'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>1.00</u>	<u>0.02</u>	<u>0.83</u>	<u>1.19</u>	<u>1.16</u>	<u>0.03</u>	<u>0.96</u>	<u>1.45</u>	<u>1.18</u>	<u>0.04</u>	<u>0.82</u>	<u>1.65</u>
<u>Xianyang</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>0.84</u>	<u>0.03</u>	<u>0.56</u>	<u>0.99</u>	<u>0.89</u>	<u>0.03</u>	<u>0.60</u>	<u>1.08</u>	<u>0.94</u>	<u>0.04</u>	<u>0.68</u>	<u>1.31</u>
<u>Yan'an</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>1.15</u>	<u>0.06</u>	<u>0.69</u>	<u>1.48</u>	<u>1.05</u>	<u>0.03</u>	<u>0.89</u>	<u>1.37</u>	<u>1.19</u>	<u>0.04</u>	<u>0.94</u>	<u>1.60</u>
<u>Yulin</u>	<u>Shaanxi</u>	<u>NEC</u>	<u>0.94</u>	<u>0.07</u>	<u>0.40</u>	<u>1.31</u>	<u>0.68</u>	<u>0.03</u>	<u>0.49</u>	<u>0.90</u>	<u>0.82</u>	<u>0.03</u>	<u>0.48</u>	<u>1.18</u>
<u>Baiying</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.76</u>	<u>0.04</u>	<u>0.48</u>	<u>1.06</u>	<u>0.71</u>	<u>0.02</u>	<u>0.59</u>	<u>0.83</u>	<u>0.91</u>	<u>0.04</u>	<u>0.73</u>	<u>1.38</u>
<u>Dingxi</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.53</u>	<u>0.04</u>	<u>0.30</u>	<u>1.02</u>	<u>0.43</u>	<u>0.03</u>	<u>0.30</u>	<u>0.64</u>	<u>0.41</u>	<u>0.02</u>	<u>0.31</u>	<u>0.67</u>
<u>Gannan</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.64</u>	<u>0.05</u>	<u>0.10</u>	<u>1.02</u>	<u>0.62</u>	<u>0.04</u>	<u>0.34</u>	<u>0.91</u>	<u>0.82</u>	<u>0.05</u>	<u>0.11</u>	<u>1.52</u>
<u>Jiayuguan</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.67</u>	<u>0.04</u>	<u>0.37</u>	<u>1.01</u>	<u>0.60</u>	<u>0.03</u>	<u>0.44</u>	<u>0.88</u>	<u>0.52</u>	<u>0.03</u>	<u>0.28</u>	<u>0.89</u>
<u>Jiuquan</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.55</u>	<u>0.03</u>	<u>0.23</u>	<u>0.80</u>	<u>0.56</u>	<u>0.04</u>	<u>0.31</u>	<u>0.94</u>	<u>0.60</u>	<u>0.03</u>	<u>0.40</u>	<u>1.08</u>
<u>Lanzhou</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.89</u>	<u>0.04</u>	<u>0.56</u>	<u>1.18</u>	<u>1.05</u>	<u>0.04</u>	<u>0.81</u>	<u>1.26</u>	<u>1.03</u>	<u>0.04</u>	<u>0.76</u>	<u>1.50</u>
<u>Linxia</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.76</u>	<u>0.01</u>	<u>0.67</u>	<u>0.92</u>	<u>0.82</u>	<u>0.03</u>	<u>0.71</u>	<u>0.99</u>	<u>0.84</u>	<u>0.03</u>	<u>0.61</u>	<u>1.11</u>
<u>Pingliang</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.71</u>	<u>0.06</u>	<u>0.36</u>	<u>1.64</u>	<u>0.80</u>	<u>0.03</u>	<u>0.65</u>	<u>0.97</u>	<u>0.64</u>	<u>0.03</u>	<u>0.31</u>	<u>0.96</u>
<u>Qingyang</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.78</u>	<u>0.02</u>	<u>0.65</u>	<u>0.97</u>	<u>0.87</u>	<u>0.03</u>	<u>0.75</u>	<u>1.07</u>	<u>0.85</u>	<u>0.03</u>	<u>0.59</u>	<u>1.18</u>
<u>Tianshui</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.46</u>	<u>0.01</u>	<u>0.38</u>	<u>0.62</u>	<u>0.51</u>	<u>0.02</u>	<u>0.37</u>	<u>0.69</u>	<u>0.57</u>	<u>0.03</u>	<u>0.34</u>	<u>0.90</u>
<u>Wuwei</u>	<u>Gansu</u>	<u>NEC</u>	<u>2.68</u>	<u>0.04</u>	<u>2.37</u>	<u>3.02</u>	<u>2.56</u>	<u>0.11</u>	<u>2.16</u>	<u>3.22</u>	<u>1.20</u>	<u>0.17</u>	<u>0.33</u>	<u>2.51</u>
<u>Zhangye</u>	<u>Gansu</u>	<u>NEC</u>	<u>0.42</u>	<u>0.03</u>	<u>0.28</u>	<u>0.82</u>	<u>0.41</u>	<u>0.02</u>	<u>0.29</u>	<u>0.51</u>	<u>0.57</u>	<u>0.08</u>	<u>0.26</u>	<u>2.30</u>
<u>Guyuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>0.60</u>	<u>0.02</u>	<u>0.48</u>	<u>0.81</u>	<u>0.59</u>	<u>0.04</u>	<u>0.39</u>	<u>0.85</u>	<u>0.49</u>	<u>0.02</u>	<u>0.29</u>	<u>0.72</u>
<u>Shizuishan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>0.52</u>	<u>0.04</u>	<u>0.26</u>	<u>1.02</u>	<u>0.59</u>	<u>0.04</u>	<u>0.38</u>	<u>0.85</u>	<u>0.66</u>	<u>0.05</u>	<u>0.29</u>	<u>1.36</u>
<u>Wuzhong</u>	<u>Ningxia</u>	<u>NEC</u>	<u>0.93</u>	<u>0.05</u>	<u>0.73</u>	<u>1.59</u>	<u>0.89</u>	<u>0.02</u>	<u>0.73</u>	<u>1.07</u>	<u>0.66</u>	<u>0.03</u>	<u>0.39</u>	<u>1.10</u>
<u>Yinchuan</u>	<u>Ningxia</u>	<u>NEC</u>	<u>0.83</u>	<u>0.04</u>	<u>0.52</u>	<u>1.12</u>	<u>0.87</u>	<u>0.03</u>	<u>0.69</u>	<u>1.10</u>	<u>0.87</u>	<u>0.04</u>	<u>0.53</u>	<u>1.31</u>
<u>Zhongwei</u>	<u>Ningxia</u>	<u>NEC</u>	<u>1.02</u>	<u>0.01</u>	<u>0.95</u>	<u>1.19</u>	<u>1.07</u>	<u>0.04</u>	<u>0.84</u>	<u>1.34</u>	<u>0.77</u>	<u>0.07</u>	<u>0.30</u>	<u>1.41</u>

Aksu	Sinkiang	NEC	0.80	0.10	0.37	1.76	1.32	0.14	0.36	2.35	0.88	0.14	0.00	2.49
Hami	Sinkiang	NEC	0.97	0.06	0.58	1.42	0.71	0.05	0.40	1.02	0.88	0.07	0.36	1.82
Hotan	Sinkiang	NEC	0.60	0.05	0.24	1.08	0.99	0.06	0.65	1.40	0.68	0.05	0.24	1.23
Kashgar	Sinkiang	NEC	0.57	0.03	0.30	0.87	0.55	0.04	0.35	0.85	0.66	0.05	0.28	1.14
Karamay	Sinkiang	NEC	1.12	0.03	0.88	1.36	1.21	0.03	1.06	1.36	1.28	0.04	0.98	1.65
Kizilsu	Sinkiang	NEC	1.06	0.06	0.61	1.56	1.23	0.12	0.59	1.79	1.14	0.10	0.12	1.85
Shihezi	Sinkiang	NEC	0.67	0.05	0.44	1.27	0.84	0.04	0.61	1.11	0.71	0.04	0.38	1.07
Urumchi	Sinkiang	NEC	0.74	0.03	0.51	1.03	0.66	0.03	0.47	0.93	0.72	0.04	0.45	1.37
Wujiaqu	Sinkiang	NEC	0.63	0.04	0.29	0.97	0.52	0.06	0.20	0.86	0.63	0.05	0.30	1.48
Yili	Sinkiang	NEC	1.16	0.03	0.87	1.39	1.34	0.06	0.89	1.74	0.94	0.06	0.52	1.71
Ezhou	Hubei	NEC	1.03	0.06	0.77	1.79	1.10	0.03	0.95	1.29	1.20	0.04	0.89	1.58
Huanggang	Hubei	NEC	0.87	0.05	0.36	1.18	1.05	0.03	0.75	1.15	1.28	0.03	0.99	1.65
Jingmen	Hubei	NEC	0.65	0.04	0.44	1.07	0.82	0.02	0.65	0.96	0.79	0.03	0.47	1.05
Shiyan	Hubei	NEC	0.94	0.04	0.65	1.39	0.86	0.05	0.53	1.30	1.26	0.05	0.87	1.94
Wuhan	Hubei	NEC	0.66	0.05	0.42	1.07	0.93	0.05	0.54	1.16	0.93	0.02	0.61	1.14
Xianning	Hubei	NEC	1.10	0.05	0.74	1.48	1.44	0.03	1.11	1.63	1.30	0.03	1.07	1.60
Xiangyang	Hubei	NEC	0.75	0.04	0.60	1.14	0.87	0.03	0.72	1.13	0.97	0.03	0.72	1.44
Xiaogan	Hubei	NEC	1.40	0.06	1.11	1.92	1.72	0.05	1.40	2.14	1.41	0.10	0.54	2.81
Yichang	Hubei	NEC	0.82	0.04	0.54	1.13	0.97	0.02	0.86	1.17	1.07	0.03	0.69	1.45
Anqing	Anhui	NEC	0.45	0.05	0.16	0.78	0.62	0.03	0.43	0.81	0.65	0.03	0.39	0.93
Bengbu	Anhui	NEC	0.65	0.04	0.30	0.92	0.85	0.03	0.69	1.10	0.76	0.04	0.49	1.36
Bozhou	Anhui	NEC	0.48	0.04	0.25	0.78	0.88	0.04	0.60	1.15	0.93	0.04	0.54	1.45
Chuzhou	Anhui	NEC	0.54	0.06	0.28	1.00	0.74	0.04	0.48	0.96	0.72	0.03	0.49	1.09
Fuyang	Anhui	NEC	0.53	0.07	0.18	1.13	0.72	0.04	0.50	1.02	0.64	0.05	0.34	1.36
Hefei	Anhui	NEC	0.75	0.04	0.45	1.06	0.85	0.04	0.66	1.15	0.86	0.02	0.68	1.15
Huabei	Anhui	NEC	0.85	0.05	0.57	1.24	1.20	0.03	1.01	1.44	0.99	0.05	0.58	1.53

<u>Huainan</u>	<u>Anhui</u>	<u>NEC</u>	<u>0.64</u>	<u>0.06</u>	<u>0.24</u>	<u>1.07</u>	<u>0.89</u>	<u>0.03</u>	<u>0.67</u>	<u>1.16</u>	<u>0.81</u>	<u>0.04</u>	<u>0.44</u>	<u>1.39</u>
<u>Huangshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>0.12</u>	<u>0.01</u>	<u>0.07</u>	<u>0.18</u>	<u>0.17</u>	<u>0.02</u>	<u>0.11</u>	<u>0.36</u>	<u>0.13</u>	<u>0.01</u>	<u>0.08</u>	<u>0.18</u>
<u>Lu'an</u>	<u>Anhui</u>	<u>NEC</u>	<u>0.68</u>	<u>0.04</u>	<u>0.36</u>	<u>1.07</u>	<u>0.56</u>	<u>0.03</u>	<u>0.39</u>	<u>0.76</u>	<u>0.53</u>	<u>0.02</u>	<u>0.39</u>	<u>0.77</u>
<u>Ma'anshan</u>	<u>Anhui</u>	<u>NEC</u>	<u>1.10</u>	<u>0.03</u>	<u>0.84</u>	<u>1.36</u>	<u>1.34</u>	<u>0.05</u>	<u>1.02</u>	<u>1.58</u>	<u>1.33</u>	<u>0.05</u>	<u>0.94</u>	<u>2.00</u>
<u>Suzhou</u>	<u>Anhui</u>	<u>NEC</u>	<u>0.57</u>	<u>0.07</u>	<u>0.23</u>	<u>1.14</u>	<u>0.97</u>	<u>0.06</u>	<u>0.71</u>	<u>1.41</u>	<u>0.93</u>	<u>0.08</u>	<u>0.46</u>	<u>2.09</u>
<u>Tongling</u>	<u>Anhui</u>	<u>NEC</u>	<u>0.82</u>	<u>0.05</u>	<u>0.53</u>	<u>1.23</u>	<u>1.05</u>	<u>0.06</u>	<u>0.76</u>	<u>1.53</u>	<u>0.97</u>	<u>0.03</u>	<u>0.67</u>	<u>1.25</u>
<u>Wuhu</u>	<u>Anhui</u>	<u>NEC</u>	<u>0.65</u>	<u>0.05</u>	<u>0.33</u>	<u>1.00</u>	<u>0.81</u>	<u>0.04</u>	<u>0.63</u>	<u>1.19</u>	<u>0.72</u>	<u>0.03</u>	<u>0.50</u>	<u>1.08</u>
<u>Changzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.80</u>	<u>0.03</u>	<u>0.59</u>	<u>1.15</u>	<u>0.85</u>	<u>0.06</u>	<u>0.43</u>	<u>1.18</u>	<u>0.71</u>	<u>0.03</u>	<u>0.46</u>	<u>1.19</u>
<u>Huaian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.69</u>	<u>0.05</u>	<u>0.32</u>	<u>1.07</u>	<u>0.89</u>	<u>0.06</u>	<u>0.46</u>	<u>1.29</u>	<u>0.69</u>	<u>0.03</u>	<u>0.50</u>	<u>0.95</u>
<u>Lianyungang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.62</u>	<u>0.04</u>	<u>0.30</u>	<u>0.96</u>	<u>0.87</u>	<u>0.05</u>	<u>0.52</u>	<u>1.24</u>	<u>0.71</u>	<u>0.04</u>	<u>0.32</u>	<u>1.11</u>
<u>Nanjing</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.69</u>	<u>0.04</u>	<u>0.40</u>	<u>0.98</u>	<u>0.84</u>	<u>0.05</u>	<u>0.50</u>	<u>1.19</u>	<u>0.73</u>	<u>0.03</u>	<u>0.55</u>	<u>1.09</u>
<u>Nantong</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.54</u>	<u>0.05</u>	<u>0.32</u>	<u>1.18</u>	<u>0.72</u>	<u>0.06</u>	<u>0.43</u>	<u>1.37</u>	<u>0.54</u>	<u>0.03</u>	<u>0.36</u>	<u>0.93</u>
<u>Suzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.69</u>	<u>0.03</u>	<u>0.43</u>	<u>0.85</u>	<u>0.94</u>	<u>0.05</u>	<u>0.60</u>	<u>1.32</u>	<u>0.75</u>	<u>0.03</u>	<u>0.57</u>	<u>1.04</u>
<u>Suqian</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.64</u>	<u>0.04</u>	<u>0.33</u>	<u>0.97</u>	<u>1.01</u>	<u>0.05</u>	<u>0.68</u>	<u>1.46</u>	<u>0.90</u>	<u>0.05</u>	<u>0.46</u>	<u>1.73</u>
<u>Taizhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.84</u>	<u>0.05</u>	<u>0.52</u>	<u>1.30</u>	<u>0.92</u>	<u>0.04</u>	<u>0.66</u>	<u>1.16</u>	<u>0.87</u>	<u>0.03</u>	<u>0.67</u>	<u>1.25</u>
<u>Wuxi</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.84</u>	<u>0.03</u>	<u>0.66</u>	<u>1.32</u>	<u>1.18</u>	<u>0.05</u>	<u>0.96</u>	<u>1.65</u>	<u>1.07</u>	<u>0.02</u>	<u>0.83</u>	<u>1.31</u>
<u>Xuzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.98</u>	<u>0.05</u>	<u>0.66</u>	<u>1.33</u>	<u>1.31</u>	<u>0.06</u>	<u>1.00</u>	<u>1.75</u>	<u>1.14</u>	<u>0.06</u>	<u>0.71</u>	<u>2.36</u>
<u>Yanchen</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.59</u>	<u>0.04</u>	<u>0.33</u>	<u>1.06</u>	<u>0.68</u>	<u>0.04</u>	<u>0.44</u>	<u>0.93</u>	<u>0.57</u>	<u>0.02</u>	<u>0.41</u>	<u>0.89</u>
<u>Yangzhou</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.62</u>	<u>0.05</u>	<u>0.26</u>	<u>1.01</u>	<u>0.60</u>	<u>0.03</u>	<u>0.39</u>	<u>0.74</u>	<u>0.70</u>	<u>0.03</u>	<u>0.35</u>	<u>0.94</u>
<u>Zhenjiang</u>	<u>Jiangsu</u>	<u>NEC</u>	<u>0.74</u>	<u>0.03</u>	<u>0.47</u>	<u>1.05</u>	<u>0.80</u>	<u>0.04</u>	<u>0.52</u>	<u>1.00</u>	<u>0.66</u>	<u>0.03</u>	<u>0.50</u>	<u>1.05</u>
<u>Shanghai</u>	<u>Municipality</u>	<u>NEC</u>	<u>0.65</u>	<u>0.02</u>	<u>0.50</u>	<u>0.76</u>	<u>0.89</u>	<u>0.05</u>	<u>0.67</u>	<u>1.26</u>	<u>0.67</u>	<u>0.03</u>	<u>0.48</u>	<u>1.00</u>
<u>Hangzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.68</u>	<u>0.03</u>	<u>0.44</u>	<u>0.87</u>	<u>0.90</u>	<u>0.03</u>	<u>0.68</u>	<u>1.16</u>	<u>0.78</u>	<u>0.02</u>	<u>0.54</u>	<u>1.01</u>
<u>Huzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.63</u>	<u>0.03</u>	<u>0.43</u>	<u>0.86</u>	<u>0.87</u>	<u>0.03</u>	<u>0.69</u>	<u>1.05</u>	<u>0.74</u>	<u>0.02</u>	<u>0.55</u>	<u>1.09</u>
<u>Jiaxing</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.56</u>	<u>0.02</u>	<u>0.39</u>	<u>0.74</u>	<u>0.76</u>	<u>0.04</u>	<u>0.47</u>	<u>1.02</u>	<u>0.56</u>	<u>0.03</u>	<u>0.30</u>	<u>0.95</u>
<u>Jinhua</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.67</u>	<u>0.03</u>	<u>0.47</u>	<u>0.85</u>	<u>0.85</u>	<u>0.07</u>	<u>0.63</u>	<u>1.45</u>	<u>0.80</u>	<u>0.02</u>	<u>0.53</u>	<u>0.99</u>
<u>Lishui</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.52</u>	<u>0.02</u>	<u>0.39</u>	<u>0.66</u>	<u>0.58</u>	<u>0.02</u>	<u>0.44</u>	<u>0.71</u>	<u>0.62</u>	<u>0.02</u>	<u>0.44</u>	<u>0.85</u>

<u>Ningbo</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.71</u>	<u>0.02</u>	<u>0.58</u>	<u>0.88</u>	<u>0.87</u>	<u>0.04</u>	<u>0.67</u>	<u>1.14</u>	<u>0.83</u>	<u>0.02</u>	<u>0.67</u>	<u>1.05</u>
<u>Quzhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.67</u>	<u>0.03</u>	<u>0.47</u>	<u>0.85</u>	<u>0.87</u>	<u>0.06</u>	<u>0.63</u>	<u>1.45</u>	<u>0.76</u>	<u>0.02</u>	<u>0.57</u>	<u>0.97</u>
<u>Shaoxing</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.64</u>	<u>0.04</u>	<u>0.42</u>	<u>0.92</u>	<u>0.86</u>	<u>0.05</u>	<u>0.54</u>	<u>1.23</u>	<u>0.79</u>	<u>0.03</u>	<u>0.53</u>	<u>1.09</u>
<u>Taizhou</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.61</u>	<u>0.02</u>	<u>0.41</u>	<u>0.82</u>	<u>0.70</u>	<u>0.04</u>	<u>0.46</u>	<u>0.88</u>	<u>0.72</u>	<u>0.02</u>	<u>0.54</u>	<u>0.94</u>
<u>Wenjiang</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.71</u>	<u>0.03</u>	<u>0.52</u>	<u>0.92</u>	<u>0.72</u>	<u>0.03</u>	<u>0.53</u>	<u>0.92</u>	<u>0.69</u>	<u>0.02</u>	<u>0.52</u>	<u>0.95</u>
<u>Zhoushan</u>	<u>Zhejiang</u>	<u>NEC</u>	<u>0.50</u>	<u>0.03</u>	<u>0.34</u>	<u>0.82</u>	<u>0.64</u>	<u>0.04</u>	<u>0.42</u>	<u>0.93</u>	<u>0.55</u>	<u>0.03</u>	<u>0.38</u>	<u>0.92</u>
<u>Fuzhou</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.75</u>	<u>0.02</u>	<u>0.65</u>	<u>0.88</u>	<u>0.83</u>	<u>0.03</u>	<u>0.59</u>	<u>0.96</u>	<u>1.00</u>	<u>0.03</u>	<u>0.65</u>	<u>1.24</u>
<u>Ganzhou</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>1.22</u>	<u>0.02</u>	<u>1.06</u>	<u>1.32</u>	<u>1.29</u>	<u>0.04</u>	<u>1.09</u>	<u>1.53</u>	<u>1.26</u>	<u>0.02</u>	<u>1.11</u>	<u>1.57</u>
<u>Ji'an</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.69</u>	<u>0.02</u>	<u>0.52</u>	<u>0.82</u>	<u>0.89</u>	<u>0.02</u>	<u>0.75</u>	<u>1.05</u>	<u>0.90</u>	<u>0.02</u>	<u>0.70</u>	<u>1.18</u>
<u>Jingdezhen</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.59</u>	<u>0.02</u>	<u>0.41</u>	<u>0.75</u>	<u>0.75</u>	<u>0.04</u>	<u>0.52</u>	<u>1.09</u>	<u>0.62</u>	<u>0.01</u>	<u>0.46</u>	<u>0.83</u>
<u>Jiujiang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.61</u>	<u>0.02</u>	<u>0.40</u>	<u>0.82</u>	<u>0.69</u>	<u>0.03</u>	<u>0.48</u>	<u>0.86</u>	<u>0.65</u>	<u>0.01</u>	<u>0.56</u>	<u>0.79</u>
<u>Nanchang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.81</u>	<u>0.02</u>	<u>0.69</u>	<u>1.00</u>	<u>0.89</u>	<u>0.04</u>	<u>0.67</u>	<u>1.06</u>	<u>0.69</u>	<u>0.02</u>	<u>0.51</u>	<u>0.89</u>
<u>Pingxiang</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.60</u>	<u>0.04</u>	<u>0.40</u>	<u>1.10</u>	<u>0.95</u>	<u>0.07</u>	<u>0.58</u>	<u>1.76</u>	<u>0.77</u>	<u>0.03</u>	<u>0.55</u>	<u>1.04</u>
<u>Shangrao</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.49</u>	<u>0.04</u>	<u>0.31</u>	<u>0.74</u>	<u>0.48</u>	<u>0.04</u>	<u>0.33</u>	<u>0.81</u>	<u>0.39</u>	<u>0.02</u>	<u>0.31</u>	<u>0.69</u>
<u>Xinyu</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>1.38</u>	<u>0.05</u>	<u>1.01</u>	<u>1.96</u>	<u>1.36</u>	<u>0.05</u>	<u>1.07</u>	<u>1.67</u>	<u>1.27</u>	<u>0.02</u>	<u>1.10</u>	<u>1.71</u>
<u>Yichun</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.87</u>	<u>0.03</u>	<u>0.62</u>	<u>1.08</u>	<u>0.94</u>	<u>0.03</u>	<u>0.67</u>	<u>1.13</u>	<u>0.86</u>	<u>0.02</u>	<u>0.66</u>	<u>1.06</u>
<u>Yingtan</u>	<u>Jiangxi</u>	<u>NEC</u>	<u>0.55</u>	<u>0.02</u>	<u>0.41</u>	<u>0.73</u>	<u>0.70</u>	<u>0.02</u>	<u>0.60</u>	<u>0.81</u>	<u>0.70</u>	<u>0.02</u>	<u>0.48</u>	<u>0.89</u>
<u>Changsha</u>	<u>Hunan</u>	<u>NEC</u>	<u>0.64</u>	<u>0.02</u>	<u>0.53</u>	<u>0.78</u>	<u>0.82</u>	<u>0.03</u>	<u>0.63</u>	<u>1.02</u>	<u>0.80</u>	<u>0.02</u>	<u>0.60</u>	<u>1.00</u>
<u>Changde</u>	<u>Hunan</u>	<u>NEC</u>	<u>1.15</u>	<u>0.05</u>	<u>0.60</u>	<u>1.52</u>	<u>1.16</u>	<u>0.04</u>	<u>0.87</u>	<u>1.42</u>	<u>1.26</u>	<u>0.04</u>	<u>0.91</u>	<u>1.75</u>
<u>Chenzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>0.82</u>	<u>0.04</u>	<u>0.54</u>	<u>1.18</u>	<u>1.10</u>	<u>0.05</u>	<u>0.86</u>	<u>1.44</u>	<u>1.08</u>	<u>0.03</u>	<u>0.79</u>	<u>1.41</u>
<u>Huaihua</u>	<u>Hunan</u>	<u>NEC</u>	<u>1.33</u>	<u>0.03</u>	<u>1.08</u>	<u>1.54</u>	<u>1.36</u>	<u>0.03</u>	<u>1.05</u>	<u>1.54</u>	<u>1.19</u>	<u>0.03</u>	<u>0.94</u>	<u>1.55</u>
<u>Loudi</u>	<u>Hunan</u>	<u>NEC</u>	<u>1.20</u>	<u>0.08</u>	<u>0.65</u>	<u>1.75</u>	<u>1.76</u>	<u>0.05</u>	<u>1.49</u>	<u>2.09</u>	<u>1.28</u>	<u>0.05</u>	<u>0.70</u>	<u>1.61</u>
<u>Xiangtan</u>	<u>Hunan</u>	<u>NEC</u>	<u>1.01</u>	<u>0.03</u>	<u>0.72</u>	<u>1.18</u>	<u>1.06</u>	<u>0.04</u>	<u>0.80</u>	<u>1.31</u>	<u>0.96</u>	<u>0.03</u>	<u>0.73</u>	<u>1.24</u>
<u>Yiyang</u>	<u>Hunan</u>	<u>NEC</u>	<u>0.53</u>	<u>0.05</u>	<u>0.24</u>	<u>0.90</u>	<u>0.85</u>	<u>0.03</u>	<u>0.65</u>	<u>1.06</u>	<u>0.89</u>	<u>0.02</u>	<u>0.66</u>	<u>1.06</u>
<u>Yongzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>0.46</u>	<u>0.02</u>	<u>0.33</u>	<u>0.62</u>	<u>0.63</u>	<u>0.03</u>	<u>0.37</u>	<u>0.74</u>	<u>0.67</u>	<u>0.03</u>	<u>0.36</u>	<u>0.96</u>
<u>Zhangjajie</u>	<u>Hunan</u>	<u>NEC</u>	<u>1.23</u>	<u>0.05</u>	<u>0.76</u>	<u>1.58</u>	<u>1.58</u>	<u>0.06</u>	<u>1.27</u>	<u>2.02</u>	<u>1.88</u>	<u>0.08</u>	<u>1.11</u>	<u>2.55</u>

<u>Zhuzhou</u>	<u>Hunan</u>	<u>NEC</u>	<u>0.60</u>	<u>0.03</u>	<u>0.45</u>	<u>0.79</u>	<u>0.85</u>	<u>0.04</u>	<u>0.62</u>	<u>1.10</u>	<u>0.76</u>	<u>0.02</u>	<u>0.56</u>	<u>1.00</u>
<u>Dongguan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.68</u>	<u>0.02</u>	<u>0.55</u>	<u>0.95</u>	<u>0.82</u>	<u>0.01</u>	<u>0.72</u>	<u>0.94</u>	<u>0.72</u>	<u>0.02</u>	<u>0.59</u>	<u>1.02</u>
<u>Foshan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.75</u>	<u>0.02</u>	<u>0.63</u>	<u>0.96</u>	<u>0.86</u>	<u>0.02</u>	<u>0.72</u>	<u>1.00</u>	<u>0.86</u>	<u>0.02</u>	<u>0.65</u>	<u>1.07</u>
<u>Guangzhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.83</u>	<u>0.02</u>	<u>0.62</u>	<u>0.98</u>	<u>0.90</u>	<u>0.02</u>	<u>0.75</u>	<u>0.98</u>	<u>0.88</u>	<u>0.02</u>	<u>0.66</u>	<u>1.04</u>
<u>Heyuan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.77</u>	<u>0.02</u>	<u>0.56</u>	<u>0.94</u>	<u>0.83</u>	<u>0.01</u>	<u>0.77</u>	<u>0.93</u>	<u>0.93</u>	<u>0.02</u>	<u>0.76</u>	<u>1.13</u>
<u>Huizhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.72</u>	<u>0.02</u>	<u>0.60</u>	<u>0.86</u>	<u>0.78</u>	<u>0.03</u>	<u>0.62</u>	<u>0.97</u>	<u>0.56</u>	<u>0.02</u>	<u>0.42</u>	<u>0.77</u>
<u>Jiangmen</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.78</u>	<u>0.02</u>	<u>0.62</u>	<u>0.98</u>	<u>0.99</u>	<u>0.04</u>	<u>0.80</u>	<u>1.26</u>	<u>0.89</u>	<u>0.03</u>	<u>0.66</u>	<u>1.13</u>
<u>Maoming</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.79</u>	<u>0.02</u>	<u>0.67</u>	<u>0.96</u>	<u>0.93</u>	<u>0.04</u>	<u>0.73</u>	<u>1.18</u>	<u>0.77</u>	<u>0.02</u>	<u>0.55</u>	<u>1.03</u>
<u>Meizhou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.72</u>	<u>0.02</u>	<u>0.58</u>	<u>0.91</u>	<u>0.88</u>	<u>0.01</u>	<u>0.79</u>	<u>0.97</u>	<u>1.00</u>	<u>0.02</u>	<u>0.79</u>	<u>1.17</u>
<u>Qingyuan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.87</u>	<u>0.03</u>	<u>0.60</u>	<u>1.11</u>	<u>0.93</u>	<u>0.02</u>	<u>0.83</u>	<u>1.07</u>	<u>0.96</u>	<u>0.02</u>	<u>0.75</u>	<u>1.29</u>
<u>Shantou</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.85</u>	<u>0.03</u>	<u>0.67</u>	<u>1.15</u>	<u>0.86</u>	<u>0.02</u>	<u>0.74</u>	<u>1.09</u>	<u>0.85</u>	<u>0.02</u>	<u>0.68</u>	<u>1.24</u>
<u>Shaoguan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.89</u>	<u>0.02</u>	<u>0.73</u>	<u>1.00</u>	<u>0.81</u>	<u>0.03</u>	<u>0.61</u>	<u>0.97</u>	<u>1.04</u>	<u>0.03</u>	<u>0.86</u>	<u>1.32</u>
<u>Shenzhen</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.83</u>	<u>0.02</u>	<u>0.69</u>	<u>0.95</u>	<u>0.82</u>	<u>0.03</u>	<u>0.67</u>	<u>1.01</u>	<u>0.76</u>	<u>0.02</u>	<u>0.62</u>	<u>0.96</u>
<u>Zhuijiang</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.74</u>	<u>0.03</u>	<u>0.44</u>	<u>0.90</u>	<u>0.70</u>	<u>0.02</u>	<u>0.55</u>	<u>0.84</u>	<u>0.71</u>	<u>0.02</u>	<u>0.57</u>	<u>0.94</u>
<u>Zhaqing</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.62</u>	<u>0.02</u>	<u>0.50</u>	<u>0.81</u>	<u>0.84</u>	<u>0.04</u>	<u>0.55</u>	<u>1.11</u>	<u>0.87</u>	<u>0.02</u>	<u>0.66</u>	<u>1.18</u>
<u>Zhongshan</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.88</u>	<u>0.03</u>	<u>0.59</u>	<u>1.11</u>	<u>1.00</u>	<u>0.07</u>	<u>0.59</u>	<u>1.28</u>	<u>0.87</u>	<u>0.03</u>	<u>0.56</u>	<u>1.20</u>
<u>Zhuhai</u>	<u>Guangdong</u>	<u>NEC</u>	<u>0.72</u>	<u>0.02</u>	<u>0.53</u>	<u>0.87</u>	<u>0.83</u>	<u>0.04</u>	<u>0.60</u>	<u>1.00</u>	<u>0.74</u>	<u>0.02</u>	<u>0.56</u>	<u>0.99</u>
<u>Fuzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>0.57</u>	<u>0.02</u>	<u>0.43</u>	<u>0.80</u>	<u>0.62</u>	<u>0.03</u>	<u>0.41</u>	<u>0.79</u>	<u>0.69</u>	<u>0.02</u>	<u>0.50</u>	<u>1.06</u>
<u>Longyan</u>	<u>Fujian</u>	<u>NEC</u>	<u>0.68</u>	<u>0.02</u>	<u>0.47</u>	<u>0.84</u>	<u>0.71</u>	<u>0.03</u>	<u>0.54</u>	<u>0.88</u>	<u>0.85</u>	<u>0.02</u>	<u>0.65</u>	<u>1.14</u>
<u>Nanping</u>	<u>Fujian</u>	<u>NEC</u>	<u>0.78</u>	<u>0.02</u>	<u>0.60</u>	<u>0.92</u>	<u>0.77</u>	<u>0.01</u>	<u>0.67</u>	<u>0.84</u>	<u>0.81</u>	<u>0.02</u>	<u>0.67</u>	<u>1.02</u>
<u>Ningde</u>	<u>Fujian</u>	<u>NEC</u>	<u>0.65</u>	<u>0.04</u>	<u>0.27</u>	<u>1.08</u>	<u>0.60</u>	<u>0.05</u>	<u>0.34</u>	<u>0.85</u>	<u>0.70</u>	<u>0.03</u>	<u>0.49</u>	<u>1.22</u>
<u>Putian</u>	<u>Fujian</u>	<u>NEC</u>	<u>0.63</u>	<u>0.03</u>	<u>0.46</u>	<u>0.97</u>	<u>0.59</u>	<u>0.03</u>	<u>0.38</u>	<u>0.75</u>	<u>0.61</u>	<u>0.03</u>	<u>0.38</u>	<u>1.01</u>
<u>Quanzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>0.55</u>	<u>0.02</u>	<u>0.36</u>	<u>0.70</u>	<u>0.59</u>	<u>0.02</u>	<u>0.44</u>	<u>0.72</u>	<u>0.59</u>	<u>0.02</u>	<u>0.43</u>	<u>0.95</u>
<u>Sanming</u>	<u>Fujian</u>	<u>NEC</u>	<u>1.17</u>	<u>0.05</u>	<u>0.82</u>	<u>1.46</u>	<u>1.04</u>	<u>0.06</u>	<u>0.74</u>	<u>1.41</u>	<u>1.09</u>	<u>0.04</u>	<u>0.80</u>	<u>1.52</u>
<u>Xiamen</u>	<u>Fujian</u>	<u>NEC</u>	<u>0.44</u>	<u>0.02</u>	<u>0.31</u>	<u>0.64</u>	<u>0.56</u>	<u>0.03</u>	<u>0.33</u>	<u>0.72</u>	<u>0.60</u>	<u>0.02</u>	<u>0.45</u>	<u>0.80</u>
<u>Zhangzhou</u>	<u>Fujian</u>	<u>NEC</u>	<u>0.55</u>	<u>0.02</u>	<u>0.37</u>	<u>0.71</u>	<u>0.57</u>	<u>0.02</u>	<u>0.45</u>	<u>0.64</u>	<u>0.60</u>	<u>0.02</u>	<u>0.44</u>	<u>0.85</u>

<u>Haikou</u>	<u>Hainan</u>	<u>NEC</u>	<u>0.52</u>	<u>0.02</u>	<u>0.35</u>	<u>0.72</u>	<u>0.63</u>	<u>0.03</u>	<u>0.48</u>	<u>0.79</u>	<u>0.58</u>	<u>0.02</u>	<u>0.40</u>	<u>0.87</u>
<u>Sanya</u>	<u>Hainan</u>	<u>NEC</u>	<u>0.57</u>	<u>0.02</u>	<u>0.44</u>	<u>0.75</u>	<u>0.64</u>	<u>0.04</u>	<u>0.46</u>	<u>0.89</u>	<u>0.71</u>	<u>0.02</u>	<u>0.59</u>	<u>0.88</u>
<u>Chongqing</u>	<u>Municipality</u>	<u>NEC</u>	<u>0.84</u>	<u>0.04</u>	<u>0.57</u>	<u>1.12</u>	<u>1.11</u>	<u>0.03</u>	<u>0.86</u>	<u>1.28</u>	<u>1.11</u>	<u>0.02</u>	<u>0.77</u>	<u>1.35</u>
<u>Bazhong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.67</u>	<u>0.02</u>	<u>0.55</u>	<u>0.79</u>	<u>0.82</u>	<u>0.02</u>	<u>0.64</u>	<u>0.93</u>	<u>0.81</u>	<u>0.02</u>	<u>0.56</u>	<u>1.02</u>
<u>Chengdu</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.84</u>	<u>0.03</u>	<u>0.52</u>	<u>1.06</u>	<u>1.07</u>	<u>0.05</u>	<u>0.79</u>	<u>1.44</u>	<u>0.96</u>	<u>0.03</u>	<u>0.77</u>	<u>1.32</u>
<u>Dazhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.66</u>	<u>0.05</u>	<u>0.40</u>	<u>1.06</u>	<u>0.96</u>	<u>0.05</u>	<u>0.60</u>	<u>1.23</u>	<u>0.82</u>	<u>0.03</u>	<u>0.52</u>	<u>1.18</u>
<u>Deyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.90</u>	<u>0.03</u>	<u>0.67</u>	<u>1.08</u>	<u>1.24</u>	<u>0.04</u>	<u>0.94</u>	<u>1.51</u>	<u>0.90</u>	<u>0.03</u>	<u>0.66</u>	<u>1.26</u>
<u>Guangyuan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.26</u>	<u>0.01</u>	<u>0.18</u>	<u>0.37</u>	<u>0.37</u>	<u>0.02</u>	<u>0.26</u>	<u>0.45</u>	<u>0.43</u>	<u>0.01</u>	<u>0.28</u>	<u>0.59</u>
<u>Leshan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.81</u>	<u>0.03</u>	<u>0.64</u>	<u>1.03</u>	<u>1.03</u>	<u>0.06</u>	<u>0.70</u>	<u>1.45</u>	<u>0.92</u>	<u>0.02</u>	<u>0.71</u>	<u>1.37</u>
<u>Luzhou</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.52</u>	<u>0.03</u>	<u>0.32</u>	<u>0.82</u>	<u>0.66</u>	<u>0.03</u>	<u>0.42</u>	<u>0.90</u>	<u>0.47</u>	<u>0.03</u>	<u>0.18</u>	<u>0.83</u>
<u>Meishan</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.46</u>	<u>0.02</u>	<u>0.29</u>	<u>0.63</u>	<u>0.67</u>	<u>0.03</u>	<u>0.43</u>	<u>0.90</u>	<u>0.55</u>	<u>0.03</u>	<u>0.34</u>	<u>0.92</u>
<u>Mianyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.80</u>	<u>0.03</u>	<u>0.60</u>	<u>1.00</u>	<u>0.90</u>	<u>0.03</u>	<u>0.73</u>	<u>1.12</u>	<u>0.79</u>	<u>0.02</u>	<u>0.57</u>	<u>0.99</u>
<u>Nanchong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.64</u>	<u>0.03</u>	<u>0.48</u>	<u>0.92</u>	<u>0.73</u>	<u>0.02</u>	<u>0.59</u>	<u>0.88</u>	<u>0.61</u>	<u>0.02</u>	<u>0.44</u>	<u>0.81</u>
<u>Panzhihua</u>	<u>Sichuan</u>	<u>NEC</u>	<u>1.43</u>	<u>0.05</u>	<u>1.12</u>	<u>1.83</u>	<u>1.47</u>	<u>0.06</u>	<u>1.13</u>	<u>1.93</u>	<u>1.34</u>	<u>0.03</u>	<u>1.02</u>	<u>1.67</u>
<u>Suining</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.82</u>	<u>0.02</u>	<u>0.69</u>	<u>1.02</u>	<u>0.78</u>	<u>0.02</u>	<u>0.69</u>	<u>0.91</u>	<u>0.92</u>	<u>0.02</u>	<u>0.80</u>	<u>1.17</u>
<u>Ya'an</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.65</u>	<u>0.03</u>	<u>0.50</u>	<u>0.98</u>	<u>0.74</u>	<u>0.02</u>	<u>0.56</u>	<u>0.89</u>	<u>0.77</u>	<u>0.03</u>	<u>0.53</u>	<u>1.04</u>
<u>Ziyang</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.50</u>	<u>0.02</u>	<u>0.38</u>	<u>0.72</u>	<u>0.62</u>	<u>0.02</u>	<u>0.44</u>	<u>0.75</u>	<u>0.62</u>	<u>0.02</u>	<u>0.43</u>	<u>0.80</u>
<u>Zigong</u>	<u>Sichuan</u>	<u>NEC</u>	<u>0.51</u>	<u>0.04</u>	<u>0.29</u>	<u>0.85</u>	<u>0.78</u>	<u>0.04</u>	<u>0.52</u>	<u>1.07</u>	<u>0.68</u>	<u>0.03</u>	<u>0.37</u>	<u>0.90</u>
<u>Baoshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.71</u>	<u>0.02</u>	<u>0.59</u>	<u>0.94</u>	<u>0.88</u>	<u>0.04</u>	<u>0.67</u>	<u>1.16</u>	<u>0.61</u>	<u>0.04</u>	<u>0.27</u>	<u>1.03</u>
<u>Chuxiong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.70</u>	<u>0.03</u>	<u>0.53</u>	<u>0.94</u>	<u>0.83</u>	<u>0.04</u>	<u>0.57</u>	<u>1.13</u>	<u>0.70</u>	<u>0.02</u>	<u>0.55</u>	<u>0.84</u>
<u>Dali</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.41</u>	<u>0.02</u>	<u>0.27</u>	<u>0.58</u>	<u>0.45</u>	<u>0.04</u>	<u>0.25</u>	<u>0.79</u>	<u>0.30</u>	<u>0.01</u>	<u>0.21</u>	<u>0.40</u>
<u>Dehong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.49</u>	<u>0.02</u>	<u>0.35</u>	<u>0.67</u>	<u>0.63</u>	<u>0.02</u>	<u>0.53</u>	<u>0.75</u>	<u>0.66</u>	<u>0.02</u>	<u>0.41</u>	<u>0.86</u>
<u>Honghe</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.46</u>	<u>0.04</u>	<u>0.28</u>	<u>0.95</u>	<u>0.54</u>	<u>0.05</u>	<u>0.31</u>	<u>0.86</u>	<u>0.46</u>	<u>0.02</u>	<u>0.29</u>	<u>0.79</u>
<u>Kunming</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.77</u>	<u>0.04</u>	<u>0.47</u>	<u>1.05</u>	<u>0.85</u>	<u>0.03</u>	<u>0.64</u>	<u>1.04</u>	<u>0.84</u>	<u>0.03</u>	<u>0.65</u>	<u>1.19</u>
<u>Lijiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.98</u>	<u>0.03</u>	<u>0.71</u>	<u>1.17</u>	<u>0.84</u>	<u>0.02</u>	<u>0.72</u>	<u>0.97</u>	<u>0.75</u>	<u>0.03</u>	<u>0.41</u>	<u>1.07</u>
<u>Lincang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.30</u>	<u>0.04</u>	<u>0.11</u>	<u>0.91</u>	<u>0.49</u>	<u>0.02</u>	<u>0.36</u>	<u>0.63</u>	<u>0.58</u>	<u>0.03</u>	<u>0.39</u>	<u>1.12</u>

<u>Nujiang</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.62</u>	<u>0.04</u>	<u>0.30</u>	<u>0.95</u>	<u>0.54</u>	<u>0.02</u>	<u>0.43</u>	<u>0.66</u>	<u>0.64</u>	<u>0.02</u>	<u>0.44</u>	<u>0.77</u>
<u>Qujing</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.76</u>	<u>0.03</u>	<u>0.56</u>	<u>1.10</u>	<u>1.06</u>	<u>0.04</u>	<u>0.81</u>	<u>1.38</u>	<u>0.92</u>	<u>0.03</u>	<u>0.62</u>	<u>1.22</u>
<u>Wenshan</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.57</u>	<u>0.02</u>	<u>0.40</u>	<u>0.82</u>	<u>0.58</u>	<u>0.02</u>	<u>0.49</u>	<u>0.73</u>	<u>0.50</u>	<u>0.02</u>	<u>0.31</u>	<u>0.63</u>
<u>Xishuangbanna</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.59</u>	<u>0.02</u>	<u>0.47</u>	<u>0.82</u>	<u>0.64</u>	<u>0.02</u>	<u>0.54</u>	<u>0.79</u>	<u>0.64</u>	<u>0.02</u>	<u>0.47</u>	<u>0.79</u>
<u>Tuxi</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.97</u>	<u>0.07</u>	<u>0.68</u>	<u>1.97</u>	<u>1.29</u>	<u>0.06</u>	<u>0.99</u>	<u>1.70</u>	<u>1.12</u>	<u>0.06</u>	<u>0.80</u>	<u>1.99</u>
<u>Zhaotong</u>	<u>Yunnan</u>	<u>NEC</u>	<u>0.71</u>	<u>0.04</u>	<u>0.40</u>	<u>1.08</u>	<u>0.98</u>	<u>0.04</u>	<u>0.74</u>	<u>1.23</u>	<u>0.96</u>	<u>0.04</u>	<u>0.60</u>	<u>1.35</u>
<u>Anshun</u>	<u>Guizhou</u>	<u>NEC</u>	<u>0.31</u>	<u>0.02</u>	<u>0.20</u>	<u>0.47</u>	<u>0.49</u>	<u>0.03</u>	<u>0.37</u>	<u>0.70</u>	<u>0.41</u>	<u>0.02</u>	<u>0.23</u>	<u>0.69</u>
<u>Bijie</u>	<u>Guizhou</u>	<u>NEC</u>	<u>0.80</u>	<u>0.05</u>	<u>0.45</u>	<u>1.21</u>	<u>1.10</u>	<u>0.05</u>	<u>0.77</u>	<u>1.42</u>	<u>0.91</u>	<u>0.03</u>	<u>0.61</u>	<u>1.19</u>
<u>Guiyang</u>	<u>Guizhou</u>	<u>NEC</u>	<u>0.53</u>	<u>0.02</u>	<u>0.39</u>	<u>0.73</u>	<u>0.71</u>	<u>0.02</u>	<u>0.63</u>	<u>0.89</u>	<u>0.62</u>	<u>0.02</u>	<u>0.41</u>	<u>0.84</u>
<u>Liupanshui</u>	<u>Guizhou</u>	<u>NEC</u>	<u>0.46</u>	<u>0.06</u>	<u>0.14</u>	<u>1.30</u>	<u>0.61</u>	<u>0.04</u>	<u>0.41</u>	<u>0.98</u>	<u>0.52</u>	<u>0.03</u>	<u>0.29</u>	<u>0.85</u>
<u>Tongren</u>	<u>Guizhou</u>	<u>NEC</u>	<u>0.48</u>	<u>0.02</u>	<u>0.33</u>	<u>0.68</u>	<u>0.67</u>	<u>0.01</u>	<u>0.60</u>	<u>0.72</u>	<u>0.51</u>	<u>0.02</u>	<u>0.20</u>	<u>0.73</u>
<u>Zunyi</u>	<u>Guizhou</u>	<u>NEC</u>	<u>0.63</u>	<u>0.02</u>	<u>0.50</u>	<u>0.80</u>	<u>0.80</u>	<u>0.03</u>	<u>0.56</u>	<u>1.00</u>	<u>0.84</u>	<u>0.02</u>	<u>0.54</u>	<u>1.11</u>
<u>Baise</u>	<u>Guangxi</u>	<u>NEC</u>	<u>1.00</u>	<u>0.03</u>	<u>0.75</u>	<u>1.20</u>	<u>0.48</u>	<u>0.03</u>	<u>0.31</u>	<u>0.78</u>	<u>0.60</u>	<u>0.02</u>	<u>0.37</u>	<u>0.88</u>
<u>Beihai</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.81</u>	<u>0.03</u>	<u>0.63</u>	<u>0.99</u>	<u>1.08</u>	<u>0.03</u>	<u>0.87</u>	<u>1.25</u>	<u>1.04</u>	<u>0.02</u>	<u>0.85</u>	<u>1.23</u>
<u>Chongzuo</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.76</u>	<u>0.02</u>	<u>0.62</u>	<u>0.93</u>	<u>0.87</u>	<u>0.03</u>	<u>0.68</u>	<u>1.04</u>	<u>0.90</u>	<u>0.03</u>	<u>0.67</u>	<u>1.15</u>
<u>Fangchenggang</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.65</u>	<u>0.01</u>	<u>0.60</u>	<u>0.72</u>	<u>0.85</u>	<u>0.03</u>	<u>0.65</u>	<u>1.03</u>	<u>0.77</u>	<u>0.03</u>	<u>0.48</u>	<u>1.13</u>
<u>Guigang</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.79</u>	<u>0.02</u>	<u>0.65</u>	<u>1.03</u>	<u>0.92</u>	<u>0.04</u>	<u>0.66</u>	<u>1.21</u>	<u>1.00</u>	<u>0.03</u>	<u>0.73</u>	<u>1.47</u>
<u>Guilin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.77</u>	<u>0.01</u>	<u>0.68</u>	<u>0.85</u>	<u>0.83</u>	<u>0.02</u>	<u>0.69</u>	<u>0.99</u>	<u>1.04</u>	<u>0.02</u>	<u>0.83</u>	<u>1.25</u>
<u>Hechi</u>	<u>Guangxi</u>	<u>NEC</u>	<u>1.10</u>	<u>0.05</u>	<u>0.76</u>	<u>1.60</u>	<u>1.09</u>	<u>0.06</u>	<u>0.71</u>	<u>1.50</u>	<u>1.19</u>	<u>0.06</u>	<u>0.65</u>	<u>2.18</u>
<u>Hezhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>1.06</u>	<u>0.09</u>	<u>0.60</u>	<u>2.33</u>	<u>0.84</u>	<u>0.04</u>	<u>0.43</u>	<u>1.09</u>	<u>0.94</u>	<u>0.05</u>	<u>0.56</u>	<u>1.32</u>
<u>Laibin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.82</u>	<u>0.02</u>	<u>0.65</u>	<u>0.98</u>	<u>0.94</u>	<u>0.04</u>	<u>0.76</u>	<u>1.17</u>	<u>0.93</u>	<u>0.03</u>	<u>0.67</u>	<u>1.24</u>
<u>Liuzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.91</u>	<u>0.02</u>	<u>0.77</u>	<u>1.11</u>	<u>0.98</u>	<u>0.03</u>	<u>0.75</u>	<u>1.15</u>	<u>1.02</u>	<u>0.03</u>	<u>0.73</u>	<u>1.36</u>
<u>Nanning</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.77</u>	<u>0.02</u>	<u>0.58</u>	<u>0.96</u>	<u>0.89</u>	<u>0.03</u>	<u>0.71</u>	<u>1.02</u>	<u>0.92</u>	<u>0.02</u>	<u>0.73</u>	<u>1.13</u>
<u>Qinzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>1.16</u>	<u>0.04</u>	<u>0.87</u>	<u>1.57</u>	<u>1.11</u>	<u>0.03</u>	<u>0.90</u>	<u>1.39</u>	<u>1.01</u>	<u>0.02</u>	<u>0.75</u>	<u>1.22</u>
<u>Wuzhou</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.75</u>	<u>0.02</u>	<u>0.66</u>	<u>0.94</u>	<u>0.88</u>	<u>0.06</u>	<u>0.63</u>	<u>1.33</u>	<u>0.94</u>	<u>0.03</u>	<u>0.71</u>	<u>1.26</u>
<u>Yulin</u>	<u>Guangxi</u>	<u>NEC</u>	<u>0.90</u>	<u>0.04</u>	<u>0.61</u>	<u>1.23</u>	<u>0.76</u>	<u>0.02</u>	<u>0.57</u>	<u>0.89</u>	<u>0.98</u>	<u>0.03</u>	<u>0.76</u>	<u>1.29</u>

<u>Golog</u>	<u>Qinghai</u>	<u>NEC</u>	<u>0.55</u>	<u>0.01</u>	<u>0.42</u>	<u>0.63</u>	<u>0.64</u>	<u>0.03</u>	<u>0.47</u>	<u>0.92</u>	<u>0.78</u>	<u>0.08</u>	<u>0.44</u>	<u>1.89</u>
<u>Haidong</u>	<u>Qinghai</u>	<u>NEC</u>	<u>0.82</u>	<u>0.04</u>	<u>0.56</u>	<u>1.22</u>	<u>0.90</u>	<u>0.04</u>	<u>0.66</u>	<u>1.15</u>	<u>0.93</u>	<u>0.04</u>	<u>0.63</u>	<u>1.51</u>
<u>Xining</u>	<u>Qinghai</u>	<u>NEC</u>	<u>1.08</u>	<u>0.04</u>	<u>0.82</u>	<u>1.54</u>	<u>1.09</u>	<u>0.05</u>	<u>0.80</u>	<u>1.46</u>	<u>1.16</u>	<u>0.05</u>	<u>0.80</u>	<u>1.82</u>
<u>Ali</u>	<u>Tibet</u>	<u>NEC</u>	<u>0.35</u>	<u>0.01</u>	<u>0.23</u>	<u>0.42</u>	<u>0.20</u>	<u>0.03</u>	<u>0.13</u>	<u>0.63</u>	<u>0.33</u>	<u>0.02</u>	<u>0.20</u>	<u>0.57</u>
<u>Qamdo</u>	<u>Tibet</u>	<u>NEC</u>	<u>0.80</u>	<u>0.03</u>	<u>0.53</u>	<u>1.03</u>	<u>1.13</u>	<u>0.03</u>	<u>0.92</u>	<u>1.31</u>	<u>1.39</u>	<u>0.05</u>	<u>0.95</u>	<u>2.15</u>
<u>Lhasa</u>	<u>Tibet</u>	<u>NEC</u>	<u>0.57</u>	<u>0.01</u>	<u>0.46</u>	<u>0.68</u>	<u>0.50</u>	<u>0.02</u>	<u>0.41</u>	<u>0.61</u>	<u>0.64</u>	<u>0.02</u>	<u>0.44</u>	<u>0.77</u>
<u>Nyingchi</u>	<u>Tibet</u>	<u>NEC</u>	<u>0.41</u>	<u>0.01</u>	<u>0.34</u>	<u>0.50</u>	<u>0.44</u>	<u>0.01</u>	<u>0.39</u>	<u>0.53</u>	<u>0.47</u>	<u>0.02</u>	<u>0.32</u>	<u>0.61</u>
<u>Naqu</u>	<u>Tibet</u>	<u>NEC</u>	<u>0.96</u>	<u>0.04</u>	<u>0.60</u>	<u>1.22</u>	<u>1.41</u>	<u>0.02</u>	<u>1.30</u>	<u>1.56</u>	<u>1.20</u>	<u>0.05</u>	<u>0.76</u>	<u>1.76</u>
<u>Shigatse</u>	<u>Tibet</u>	<u>NEC</u>	<u>0.40</u>	<u>0.02</u>	<u>0.27</u>	<u>0.55</u>	<u>0.34</u>	<u>0.01</u>	<u>0.29</u>	<u>0.41</u>	<u>0.38</u>	<u>0.01</u>	<u>0.23</u>	<u>0.51</u>
<u>Lhoka</u>	<u>Tibet</u>	<u>NEC</u>	<u>0.48</u>	<u>0.02</u>	<u>0.31</u>	<u>0.66</u>	<u>0.64</u>	<u>0.02</u>	<u>0.49</u>	<u>0.76</u>	<u>0.40</u>	<u>0.03</u>	<u>0.27</u>	<u>0.86</u>

204 ^a EC and NEC denote emission control and non-emission control regions, respectively, of which the latter means regions without implementation
 205 of emission control measures.

206 ^b The pre-Parade Blue, Parade Blue, and post-Parade Blue periods indicate the periods of 1-19 August, 20 August-3 September, and 4-30
 207 September 2015, respectively.