



## Supplement of

## Variations in $N_{cn}$ and $N_{ccn}$ over marginal seas in China related to marine traffic emissions, new particle formation and aerosol aging

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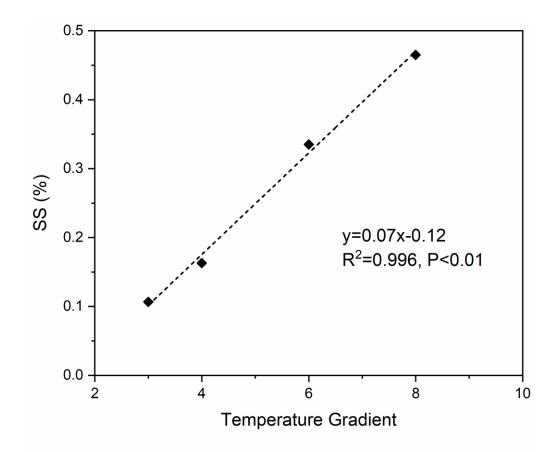


Fig S1. SS (%) versus Temperature gradient in calibrating DMT-CCNC at 500 V ccm and 1000 mb (The calibration was conducted by the vendor of DMT-CCNC in China as a commercial service purchased).

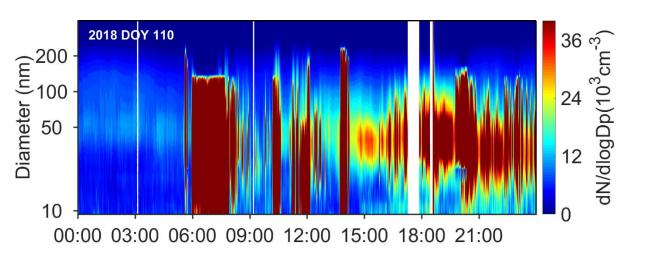
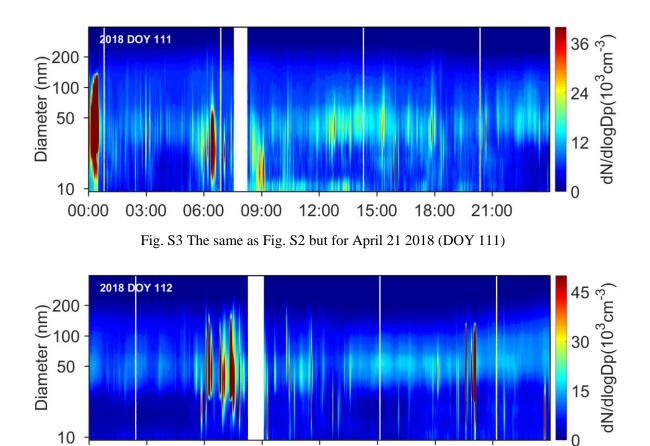
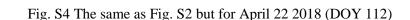


Fig. S2 The contour plot of particle number size distribution on April 20 2018 (DOY 110), with the dark red areas in general indicating the signal of ship emission





12:00

15:00

21:00

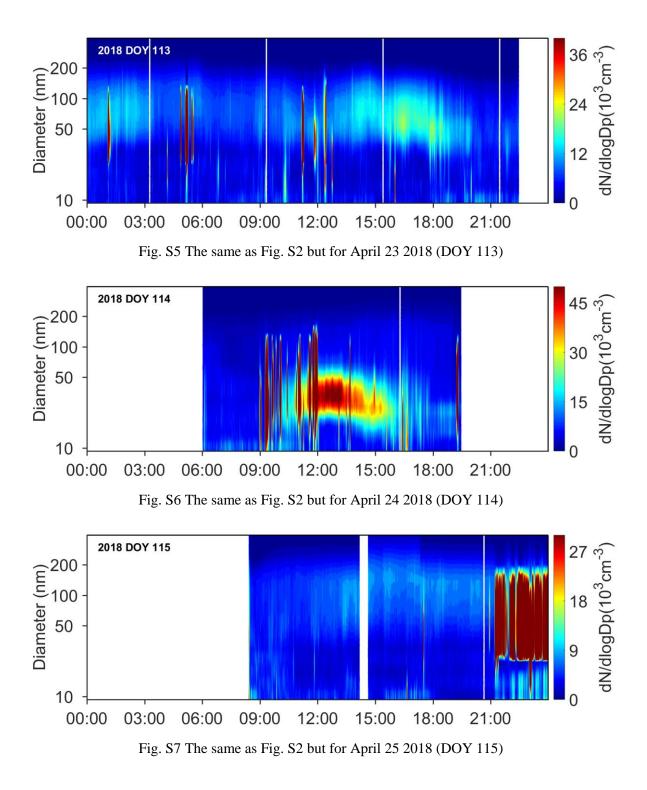
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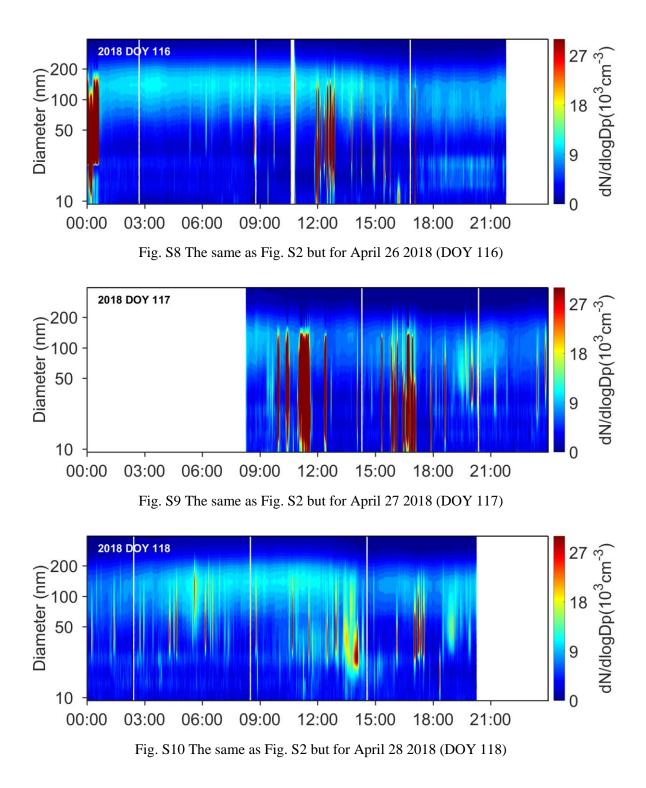
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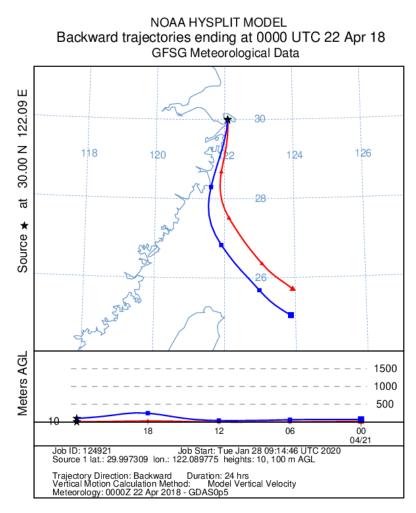


Fig. S11 The NOAA's HYSPLIT back trajectory direction in the past 24 hours (April 22 (DOY 112) 2018)

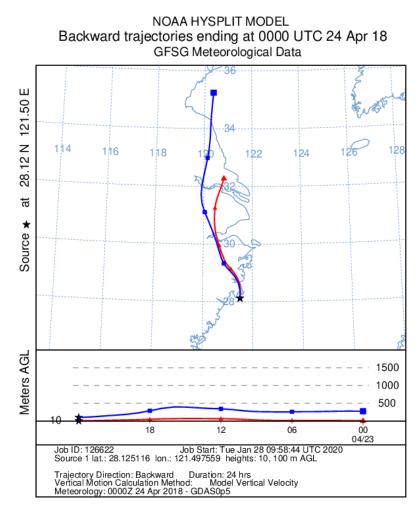


Fig. S12 The same as Fig. S10 but for April 24 (DOY 114) 2018

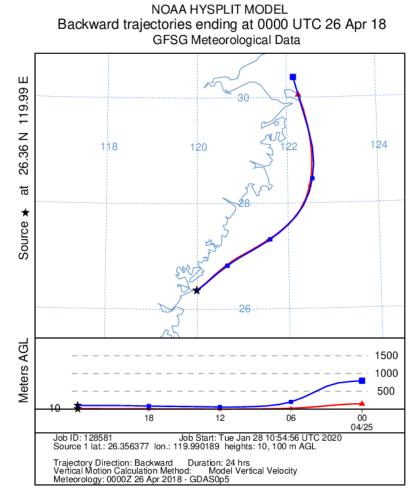


Fig. S13 The same as Fig. S10 but for April 26 (DOY 116) 2018

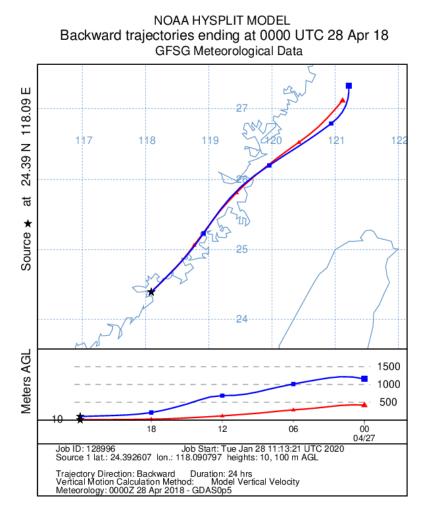


Fig. S14 The same as Fig. S10 but for April 28 (DOY 118) 2018