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*Supplement of*

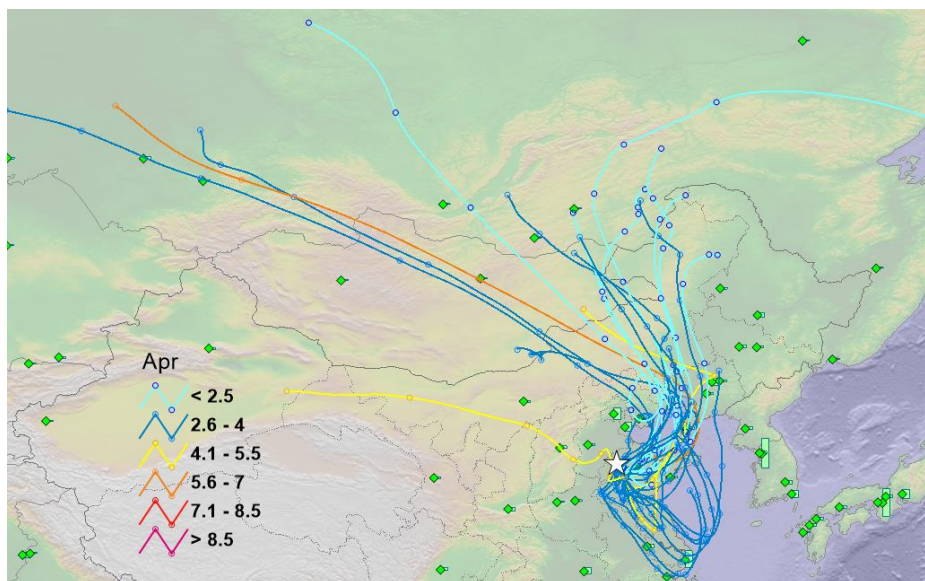
## **Seasonal variations in metallic mercury ( $\text{Hg}^0$ ) vapor exchange over biannual wheat – corn rotation cropland in the North China Plain**

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## Supplement



**Figure S1.** 72-h backward trajectories calculated by 6-h intervals (02:00, 08:00, 14:00, 20:00) during campaign 5 (April, 2015) classified by air mass  $Hg^0$  concentration level. Calculation and visualization were pursued using the TrajStat software (v. 1.1, Wang et al., 2009).

**Table S1.** Event-based collected precipitation samples (depth, mm and THg concentration, ng L<sup>-1</sup>) during the study period 2012 – 2013.

<b>Event date (yyyy-mm-dd)</b>	<b>Precipitation depth (mm)</b>	<b>Total Hg concentration (ng L<sup>-1</sup>)</b>
2012-05-24	3.2	27.0
2012-06-08	3.6	22.5
2012-06-10	10.4	26.2
2012-06-14	1.2	25.0
2012-06-29	25.2	13.9
2012-07-04	18.4	15.7
2012-07-08	47.8	9.2
2012-07-10	35.2	11.4
2012-07-22	2.0	27.2
2012-07-27	3.6	21.4
2012-08-01	89.4	8.9
2012-08-06	35.0	19.2
2012-08-14	13.4	10.6
2012-08-18	81.2	8.8
2012-09-02	11.6	14.9
2012-09-07	2.4	25.3
2012-09-26	8.6	19.3
2012-10-05	3.8	37.9
2012-10-21	1.8	31.6
2012-11-03	12.6	45.6
2012-12-21	19.4	36.3
2012-12-29	2.4	113.3
2013-01-20	7.2	48.1
2013-02-03	7.0	55.6
2013-03-30	1.8	39.7
2013-04-20	8.2	27.8

### Supplementary references

Wang, Y. Q., Zhang, X. Y., and Draxler, R.: TrajStat: GIS-based software that uses various trajectory statistical analysis methods to identify potential sources from long-term air pollution measurement data, *Environ. Model. Software*, 24, 938–939, 2009.