**Table S1**. The GPS coordinates of the six sampling locations

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| --- | --- | --- |
| sampling locations |  | GPS coordinates |
| Tai’an, Shandong |  | E116°20′-117°59′, N35°38′-36°28′ |
| Linyi, Shandong |  | E117°24′-119°11′, N34°22′-36°13′ |
| Weifang, Shandong |  | E118°10′-120.01′, N35°32′-36°13′ |
| Laiwu, Shandong |  | E117°19′-117.58′, N36°02′-36°33′ |
| Rizhao, Shandong |  | E118°25′-119.39′, N35°04′-36°04′ |
| Qingdao, Shandong |  | E119°30′-121.00′, N35°35′-37°09′ |