

**Table S2.** Phenological records of *G. molesta* in different regions in China

| Region                | Province          | Valid record<br>number of each<br>province |
|-----------------------|-------------------|--------------------------------------------|
| Central China         | Henan             | 8                                          |
|                       | Hubei             | 5                                          |
| Eastern China         | Anhui             | 25                                         |
|                       | Fujian            | 3                                          |
|                       | Jiangsu           | 42                                         |
|                       | Jiangxi           | 6                                          |
|                       | Shandong          | 60                                         |
|                       | Shanghai          | 23                                         |
|                       | Zhejiang          | 11                                         |
| Northeastern<br>China | Beijing           | 32                                         |
|                       | Hebei             | 86                                         |
|                       | Shanxi            | 80                                         |
|                       | Tianjin           | 10                                         |
| Northwestern<br>China | Gansu             | 60                                         |
|                       | Ningxia           | 16                                         |
|                       | Shaanxi           | 24                                         |
|                       | Xinjiang          | 54                                         |
| Northern<br>China     | Heilongjiang      | 12                                         |
|                       | Jilin             | 4                                          |
|                       | Liaoning          | 30                                         |
|                       | Inner<br>Mongolia | 7                                          |
| Southwestern<br>China | Guizhou           | 3                                          |
|                       | Sichuan           | 9                                          |
|                       | Yunnan            | 13                                         |
|                       | Chongqing         | 3                                          |
| Total                 |                   | 626                                        |