S1. the sample number of each species, see the appendix table 1 for reference of each sample.

|  |  |
| --- | --- |
| Scientific Name | Number |
| *Helonias bullata* | 58 |
| *Heloniopsis kawanoi* | 41 |
| *Heloniopsis koreana* | 32 |
| *Heloniopsis leucantha* | 16 |
| *Heloniopsis orientalis* var. *breviscapa* | 85 |
| *Heloniopsis orientalis* var. *flavida* | 144 |
| *Heloniopsis orientalis* var. *orientalis* | 121 |
| *Heloniopsis sp.* | 4 |
| *Heloniopsis tubiflora* | 12 |
| *Ypsilandra thibetica* | 115 |
| *Ypsilandra yunnanensis* | 57 |
| **total** | **685** |

S2. the result of ANOVA test for the flowering temperature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Df | Sum Sq | Mean Sq | F value | P-value |
| Species | 11 | 821083 | 74644 | 58.82 | <0.001 |
| Residuals | 1057 | 1341304 | 1269 |  |  |
| Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1 | | | | | |