

| Station sites   | QYZ  | HT   |
|---|--|--|
| Location  | 115°04' E, 26°45' N  | 109°45' E, 26°50' N  |
| Administrative region   | Guanxi township, Jiangxi Province  | Guangping township, Hunan Province   |
| Altitude (m)  | 30–60  | 280–390  |
| Climate type  | Humid subtropical monsoon climate  |  |
| Mean annual temperature (°C) <sup>a</sup>                                 | 18.6   | 15.8   |
| Mean annual precipitation (mm) <sup>a</sup>                               | 1361   | 1200   |
| Dominated tree species (relative abundance)                               | <i>Pinus massoniana</i> (86.5 %)   | <i>Cunninghamia lanceolata</i> (92.4 %)  |
| Other predominant vegetative species                                      | <i>Pinus elliottii</i> ; <i>Quercus fabrei</i> ; <i>Vitex negundo</i> ; <i>Rhododendron simsii</i> Planch.; <i>Ischaemum indicum</i> | <i>Marsa japonica</i> ; <i>Ilex purpurea</i> ; <i>Cyclosorus parasiticus</i> ; <i>Woodwardia prolifera</i> |
| Forest age (yr)   | 31   | 27   |
| Canopy height (m)   | 16   | 14   |
| Leaf area index (LAI) in summer   | 4.31   | 7.00   |
| Canopy density  | 0.7  | 0.8  |
| Radiation transfer under canopy   | 3.0 %  | 2.7 %  |
| Dominant soil type (Chinese soil name)                                    | Udic Ferrisols (Red Earth)   | Haplic Acrisol (Yellow Earth)  |
| Organic matter content in surface soil (g kg <sup>-1</sup> ) <sup>a</sup> | 10–15  | 28.3   |
| Soil pH <sup>a</sup>  | 4.52   | 3.85   |
| Annual average GEM concentration (ng m <sup>-3</sup> ) <sup>b</sup>       | 3.64 ± 1.82  | 5.93 ± 3.16  |
| Hg content in soil organic layer (ng g <sup>-1</sup> ) <sup>c</sup>       | 76.2 ± 6.0   | 153 ± 28   |
| Hg content in surface (0–5 cm) soil (ng g <sup>-1</sup> ) <sup>c</sup>    | 42.6 ± 2.3   | 167 ± 32   |

<sup>a</sup> Data of QYZ and HT stations according to Gao et al. (2014) and Wang et al. (2009), respectively; <sup>b</sup> mean value of the measurements at the height of 25 and 35 m at QYZ site, 22.5 and 30.5 m at HT site; <sup>c</sup> analyzed based on 18 samples using a direct Hg analyzer (DMA80, Milestone Inc., Italy).