

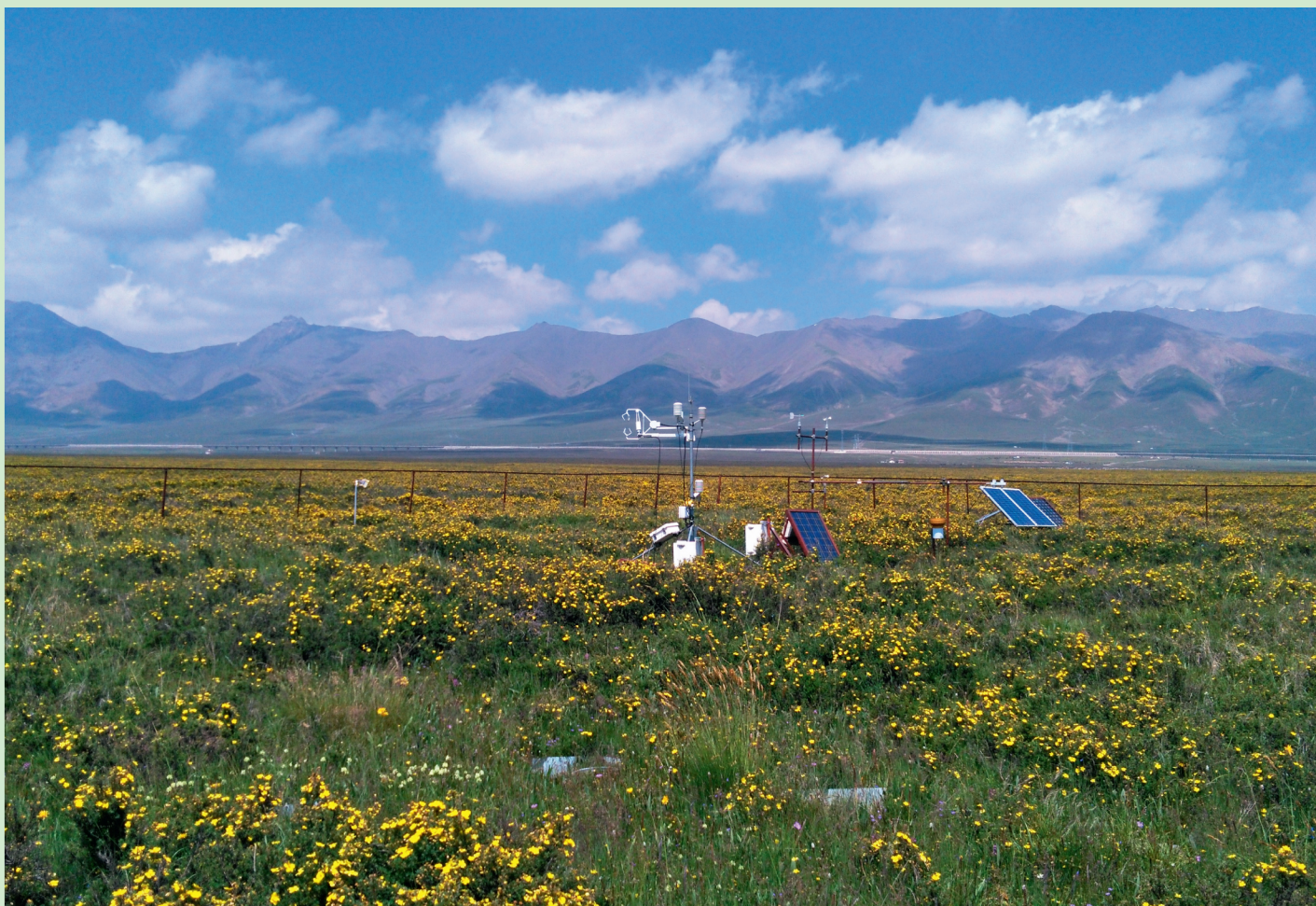
# 植物生态学报

## Chinese Journal of Plant Ecology

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专题：中国典型生态脆弱区碳水通量过程研究

Special feature: Ecosystem carbon and water fluxes in ecological vulnerable areas of China



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# 植 物 生 态 学 报

Zhiwu Shengtai Xuebao

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封面说明: 青海海北高寒金露梅(*Dasiphora fruticosa*)灌丛通量观测站景观(张法伟摄)。海北观测站(37.67° N, 101.33° E, 3 400 m)建于2002年, 是我国开展通量观测时间最长的站点之一。2017年, 在国家重点研发计划支持下, 组建了“北方生态脆弱区通量监测网络”。该网络由20个观测站组成, 分布在干旱脆弱区(内蒙古高原)和高寒脆弱区(青藏高原), 采用涡度相关技术对生态系统碳水通量进行长期观测。在此基础上, 组织了“中国典型生态脆弱区碳水通量过程研究”专题, 以期促进我国脆弱区通量观测研究(本期1433-1522页)。

专题责编: 陈世苹 胡中民

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**Cover illustration:** Landscape of the alpine *Dasiphora fruticosa* scrubland long-term flux observation site, Haibei, Qinghai, China (Photographed by ZHANG Fa-Wei). Haibei flux observation site (37.67° N, 101.33° E, 3 400 m), setup in 2002, is one of the longest flux observation sites in China. Supported by the National Key R&D Program of China, “Flux observation network of ecological vulnerable areas in northern China” was established in 2017. This network, comprised by 20 flux observation sites, covered the arid ecological vulnerable area (Nei Mongol Plateau) and the alpine ecological vulnerable area (Qingzang Plateau). The dominant vegetation is grassland, ranged from almost all the types of temperate and alpine grasslands. Eddy covariance technique is adopted to measure the carbon and water fluxes across all sites, and totally 150 site-year flux dataset has been collected. Therefore, a special issue “Ecosystem carbon and water fluxes in ecological vulnerable areas of China” was organized to present our research progresses. We hope this issue can promote the relevant studies on flux observations of the ecological vulnerable areas in China (Pages 1433–1522 of this issue).

**Editors of the special feature:** CHEN Shi-Ping and HU Zhong-Min