

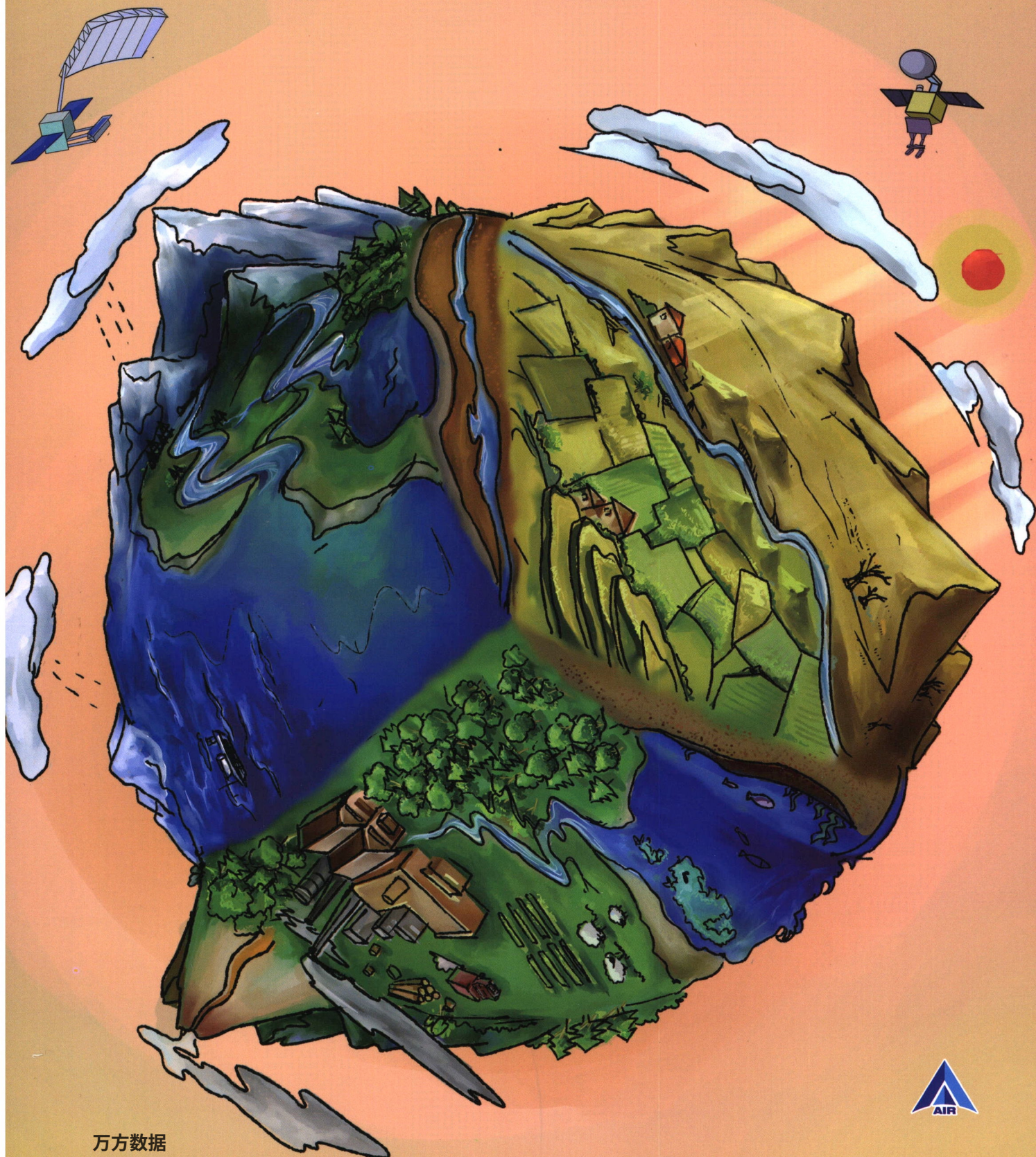
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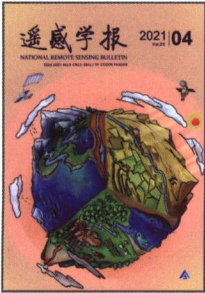
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全球碳、水循环和能量平衡的空间地球观测

Space Earth observation of global carbon, water cycle and energy balance

封面图片为全球碳、水循环和能量平衡的空间地球观测示意图，“黄”、“绿”、“蓝”三种主题颜色分别展示地球系统中的能量平衡、碳循环和水循环过程；左上角为专注水循环观测的陆地水资源卫星，右上角为专注能量平衡的全球能量平衡观测卫星。面向地球系统科学研究对遥感观测的最新需求以及我国自主设计的空间地球科学相关卫星计划，遥感科学国家重点实验室于滦河流域组织开展了“碳、水循环和能量平衡遥感综合试验”，本期专刊的15篇论文总结了试验的总体设计思路以及最新的试验研究成果。

The cover image demonstrates space Earth observation of global carbon cycle, water cycle and energy balance. The "yellow", "green" and "blue" respectively represent the energy balance, carbon cycle and water cycle processes of the Earth system. The satellite in the upper left corner of the cover image is the Terrestrial Water Resources Satellite focusing on the global water cycle studies, and the another one in the upper right corner is the Energy Budget Observation Mission that focuses on the energy balance studies. In response to the newly challenging requirements for remote sensing observations in Earth system science and the demonstration of China's self-designed space Earth scientific research satellites, the State Key Laboratory of Remote Sensing Science organized a comprehensive remote sensing experiment of carbon cycle, water cycle and energy balance in the Luan River Basin. This special issue presents the overall design of the experiment and latest experimental research results.

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