

The Digital Catchment Committee of the Chinese National Committee of International Society for Digital Earth has been established to further promote the concept of river basin simulator

On April 21, 2025, the second meeting of the fourth plenary committee of the Chinese National Committee of International Society for Digital Earth (CNISDE) was held in Chongqing. At the meeting, Academician Xia Jun from Wuhan University gave a presentation regarding the establishment of Digital Catchment Committee (DCC), including its background, necessity and significance, goals and scope, supporting units, preparatory meetings, and next steps of work plans. After deliberation, DCC was officially approved to be established. Academician Xia Jun was elected as the chairman, Prof. CHEN Xi served as the vice chairman and concurrently as the Secretary General. Prof. YANG Dawen of Tsinghua University, Prof. LI Xin of the Institute of Tibetan Plateau Research (ITP), Chinese Academy of Sciences, Prof. ZUO Qiting of Zhengzhou University, Prof. YANG Tao of Hohai University, Prof. TANG Qihong of Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Prof. SHE Dunxian of Wuhan University, and Prof. LIU Tie of Zhejiang University of Technology served as the vice chairmen.

The digital catchment involves multiple fields, specialties, industry sectors and disciplines such as hydrology, geography, ecology, environmental science, computer science, artificial intelligence, and digital earth. The establishment of the DCC aims to i) promote the digitalization process and transformation of watershed system science; ii) facilitate the cross integration of fundamental research in basin system science with digital twin, artificial intelligence big models, big data, and other digital earth technologies; iii) promote collaborative innovation and development of digital earth. DCC will establish a high-quality academic exchange platform for the scholars engaged in theoretical, technological, engineering.

