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An International Cooperation Practice on the Analysis of Carbon Satellites data

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Carbon satellite data is an essential part of the greenhouse observation and plays a critical role in global climate change assessment. Existing carbon data analysis e-science platforms are affected by restrictions in distributed resource management and tightly coupled service interoperability. These barriers currently offer no support for facilitating cross-disciplinary exploration and application, which have hindered the development of international cooperation. From 2018, the Cooperation on the Analysis of carbon SATellites data (CASA), a new international scientific programme, was approved by the Chinese Academy of Sciences (CAS). So far, more than 9 research institutions have been integrated under this cooperation. The result is demonstrated in the global XCO₂ dataset based on the Tansat satellite.