

PEM036-29

会場:ファンクショナルルームA

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Space Weather Cloud Computing Service

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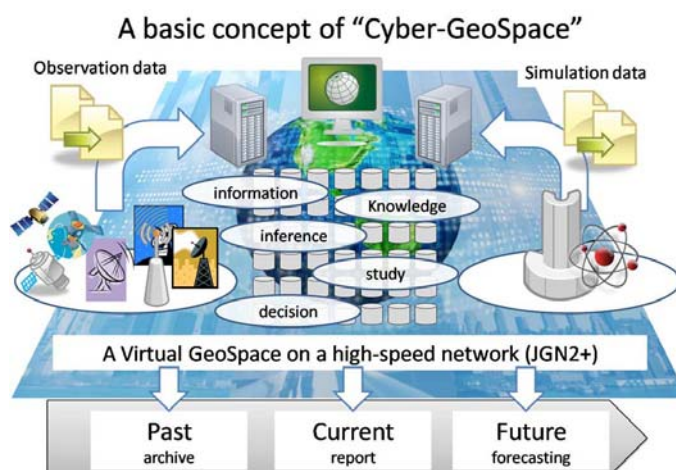
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Earth and space science (including space weather) so far are mainly processed based on theoretical, observational, and computer simulation-based approaches. Recently "informatics" is expected as a new (fourth) methodology, which is a methodology to analyze large-scale data (observation data and computer simulation data) for new findings using a variety of data processing techniques.

At NICT (National Institute of Information and Communications Technology), we are now developing a new research environment named the "

Space Weather Cloud". The Space Weather Cloud is a cloud-computing environment based on informatics technologies; it provides many services for studies and out-reaches of space weather activities. The background resources are composed of visualization devices including tiled display wall (TDW), cluster workstations, a set of super computer (NEC SX-8R 7 nodes), licensed applications, database management system with a variety of data, and huge-scale distributed storage (Gfarm system) which are built on a high-speed network at NICT (JGN2+). General users make use of the space weather cloud services on our the e-SpaceWeather web site. Researchers who want to access inside-cloud system (OneSpaceNet) are expected to connect their computers through an SSH server on the cloud. If one has an access point to directly connect the JGN2+, he/she will have a benefit of high-speed accesses to our OneSpaceNet resources.



キーワード: space weather, informatics, cloud computing, OneSpaceNet, e-SpaceWeather, Cyber GeoSpace

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