

STARS : Spatially and Temporally Acquired Records Synchronizer

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Due to a large scale data size in Earth investigations, each dialogue in the web application has become complicated. It is hard to display a variety of data sets in one browser frame. I introduce a new concept of GIS (geographic information system)-based environment for Earth sciences and operations named as STARS (Spatially and Temporally Acquired Records Synchronizer). The STARS provides us with synchronized WebGIS applications for 4-D (3-D in space and 1-D in time). The STARS so far has provided two jquery plug-ins for this synchronization; “Timeline” and “TileViewer” (<http://k2go.jp/public>). The Timeline is for time management that is available with various WebGIS tools (<http://k2go.jp/public/Timeline/>). The TileViewer is to provide scalable pyramid tile images. One of the examples to use the TimeViewer is “Himawari real-time web” (<https://himawari.asia>). Methods of synchronizing multiple WebGIS or graph applications using Timeline and TileViewer are presented, and examples of these synchronizations are demonstrated in this talk.