

A NEW NETWORKED ELECTROMAGNETIC DATA DISTRIBUTION SYSTEM - supporting multi data formats -

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Recent observations of long-term electromagnetic (EM) fields are conducted not only by national/official organizations, but also by a number of research projects and communities. These various data, however, have no unified ways to be distributed to data users. Then we developed a new networked electromagnetic data distribution integrated system via internet based on NINJA (New Interface for Networked Java Application, Takeuchi et al., 2002) and its concept was reported on at the last meeting. The service by this system was open in practice at IFREE/JAMSTEC and ERI/Univ. of Tokyo last August. Now it distributes the geomagnetic field data operated by Ocean Hemisphere Network Project (OHP). This service is simple to use by a standard WEB browser and to search and download data by using several parameters of search options which are periods, observatories, geomagnetic disturbance levels, and so on.

This system, however, has supported only an OHP data format last year. Supporting other data formats was required for data users to treat these downloaded data much more easily. Therefore multi data formats used frequently in geomagnetism communities are also supported to download, which are WDC one-minute, INTERMAGNET IMF V1.22 and CD-ROM, IAGA 2000 and 2002 formats. When the data user requests to download data in one output format, a data server converts data in an original OHP data format into ones in a requested output format. Then requested data files are gzip-compressed and archived in a tar file. Finally a data user can download a tar-archived data file via http port and can use it easily in a requested format. You are very welcome to visit the service at <http://www.jamstec.go.jp/pacific21/>.