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Current status and future perspective of data archive for Syowa – Iceland conjugate observations

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Current status and future perspective of the data archive for the ground-based conjugate observations on auroral phenomena (optical aurora, geomagnetic field, ULF wave, CNA, VLF wave, etc.) between Syowa Station, Antarctica and Iceland will be introduced.

Simultaneous digital data recording of continuous ground-based upper atmosphere physics monitoring observation data at Syowa and observatories in Iceland has been carried out since 1984.

As for the auroral optical observations, an autonomous system of monochromatic all-sky digital CCD imager was installed in 2005 at Husafell, Iceland, and autonomous system of an all-sky panchromatic imager and a meridian scanning photometer was installed in 2008 at Husafell, and that of an all-sky panchromatic imager was installed in 2009 at Tjornes, Iceland.

So far, update or reconfiguration of those instruments and installation of other new instruments have been done several times both at Syowa and observatories in Iceland. In Iceland, observations were carried out at three sites during 1984 to 2008, and then have been reduced to two sites, Husafell and Tjornes, since August, 2008.

In our presentation, current status of the data archive of those Syowa – Iceland conjugate observations will be introduced and a future perspective will be discussed.

Information on the Syowa – Iceland conjugate observation and archived data can be seen and accessible from the following WEB site:

https://polaris.nipr.ac.jp/~aurora/uapm/ConjugateObs_index.html