EISCAT data search and retrieval for combined optical-radar observations of the ionosphere

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Many auroral and other observation campaigns rely heavily on simultaneous optical and incoherent scatter radar measurements. At EISCAT, all incoherent scatter radar data are archived in a unified database system which includes versatile programming tools. This makes it easy to produce metadata in several formats for data portals and search systems.

The database and data portal systems presently in use at EISCAT will be presented: the MADRIGAL database (http://www.openmadrigal.org) and the EU FP7 ENVRI (http://envri.eu) and ESPAS (http://www.espas-fp7.eu) portals, as well as ongoing efforts to harmonize the data archival formats used by different incoherent scatter radars (http://www.coopeus.eu, http://www.openradar.org).