

Auroral data archive in Japan

Akira Kadokura^{1,2}, Yasunobu Ogawa², and Keisuke Hosokawa³

¹*Research Organization of Information and systems, Joint Support-Center for Data Science Research,
Polar Environment Data Science Center*

²*National Institute of Polar Research*

³*University of Elec. Comm.*

Activities of archive and database creation in Japan for auroral observation data obtained in both Antarctic and Arctic regions will be reviewed. The World Data Center for Aurora in the National Institute of Polar Research (NIPR) has archived the historical auroral all-sky film data from the IGY period until 1998. Around that year, auroral observation using digital imager started, and archive procedure and archive system have dramatically changed. Current development of imaging technology enables us auroral imaging with a high sampling rate of 100 Hz or a high spatial resolution above 40 million pixels, which produces a huge amount of data. In our presentation, currently available some representative auroral databases in Japan will be introduced, and future of auroral data archive will be discussed.