

Quick-look movie of King Salmon-Hokkaido radar joint view

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We have been developing the database of SuperDARN King Salmon (KSR) and Hokkaido (HOK) radars to promote collaborative studies with ongoing satellite observations as well as the other ground-based observations particularly in the same area/meridian as the radars. Since last year, the quick-look (QL) range-time-intensity (RTI) plots for both radars have been available online from the Hokkaido radar web site (<http://center.stelab.nagoya-u.ac.jp/hokkaido/indexj.html>). In addition to the RTI plots, recently we have started to generate two-dimensional field-of-view (FOV) plots of the backscatter power and Doppler velocity. The FOV plots are now available on the same web site of the QL plots, as movie files including all FOV plots for all 2 min intervals of a day. In the movie files, both the KSR and HOK data are plotted on the same frame encompassing the FOVs of the two radars. This enables us to not only check the data availability for both radars quickly, but also recognize at a glance the temporal/spatial evolution of ionospheric flows over the extensive area from Hokkaido through eastern Siberia and Alaska. The locations of The NICT Space Weather Monitoring (SWM) magnetometers and the Realtime auroral and polar ionospheric disturbance Magnetometers (RapidMag) are superimposed on the FOV plots, to facilitate conjunction studies between those ground observations. The information on the other ground measurements will be added to the movie files as they become available. The KSR-HOK joint movie files are automatically generated upon the arrival of new data from the two radars, and then are uploaded on to the web site on almost a daily basis. Due to the limited speed of the data transfer from the radar sites, usually movie files for a specific day appears on the web with a 3-4 day delay from the actual day. Any questions, comments, and requests about the database and its future enhancement are most welcome.