

**National wide SAFIR network in Japan**  
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Japan Meteorological Administration (JMA) installed a national wide Safir network April in 2000. The system has been operating, and enormous and useful data have been accumulated. Lightning Research Group of Osaka University (LRGOU) is responsible to evaluate the system performance. For this purpose LRGOU is conducting several projects. The first one is the ground base measurement with own equipments. LRGOU conducts campaigns during winter storm seasons in Hokuriku, and dring summer in Gifu. The main equipments are broadband interferometers with the equivalent time resolution with Safir. The comparison is on going.

The second one is the comparison with radar observations. JMA facilitates C-band doppler radar, and it can detect occurrences of micro-bursts. The comparison between the lightning activity detected by Safir and micro-bursts detected by JMA doppler radar is given, and the correlation between them are shown.

The third one is the evaluation in terms of satellite observations. In other words the evaluation from the aspects of weather system development and migration can be done by the comparison with satellite data. The coverage of TRMM/LIS includes the half west-south part of Japan, and LIS and Safir show the excellent coincident in space and time.

As the conclusion, though the national wide Safir network in Japan is still developing, the qualitative evaluation is excellent.