Forecast verification: case of operational solar flare forecast

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A forecast verification has been recognized as one of the most important topic in space weather forecast operation. Some Regional Warning Centers (RWCs) belonging to the International Space Environment Service (ISES) have started to verify their operational forecasts. NICT, as the RWC Japan/ISES, has an online platform for the comparison of the operational solar flare and geomagnetic K-index forecasts among some RWCs. However, as the conditions of the forecasts are not the same and verification methods are not enough to compare their forecasts, we cannot directly compare the forecast performance among the RWCs. While comparing forecast performance among some RWCs is very informative, we have to proceed the efforts to compare the operational space weather forecasts. Verifying own forecast performance is the first step to proceed the comparison of the performances of forecasts. For the reasons, we started verifying own forecast performance. The verification study uses forecast data issued by RWC Japan as Ursigram codes, especially UGEOA. In this presentation, we introduce methods and results for the verification study of operational solar flare forecast in NICT.