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Evaluation of FengYun Satellite products

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FengYun satellites have developed from experimental satellite to operational satellite. At present, there are 8 satellites in orbit with two series: geostationary and polar orbit. The quantitative products produce every day cover the atmosphere, land, ocean, etc. Data quality directly affects the application of remote sensing data. In order to better carry out the application of quantitative products, it is necessary to evaluate their quality. The evaluation of quantitative remote sensing products is carried out based on selection of evaluation data and evaluation methods that are directly related to the evaluation results. The data used for evaluation could come from ground observations, similar satellite remote sensing products or model reanalysis data. In order to evaluate the quality of FengYun satellite data more objectively and effectively, some experiments were designed to validate the retrieval accuracy. Secondly, the application evaluation of data is carried out for various application fields to evaluate products availability. At last, validation software system was built to perform the operational evaluation.