

Current status and future plan of the JAXA/EarthCARE algorithm development and production model

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EarthCARE (Earth Clouds, Aerosols, and Radiation Explorer) is a joint Japanese-European mission, and the mission is designed to produce the maximum synergetic collaboration of European and Japanese science teams. For Level 2 and higher data products, Japan originally develops the algorithms to release as Japanese products from JAXA, although continuous exchanges of information will be conducted between Japan and Europe through the Joint Algorithm Development Endeavor (JADE). The JAXA/EarthCARE algorithm development team as Prof. T. Nakajima (University of Tokyo) as the lead scientist consists of Prof. H. Okamoto (Kyushu University) and Mr. Y. Ohno (NICT) for CPR; Dr. T. Nishizawa (National Institute for Environmental Studies) for ATLID; Prof. T.Y. Nakajima (Tokai University) for MSI; Prof. H. Okamoto for CPR-ATLID synergy and CPR-ATLID-MSI synergy; Prof. M. Satoh (University of Tokyo) for model simulation; and Prof. T. Nakajima (University of Tokyo) for Four-Sensor Synergy Algorithm. The EarthCARE team in JAXA determined a list of products that will be processed and released from Japan on July 2011. JAXA L2 products are divided between standard products and research products. JAXA standard products will be processed and released from JAXA Mission Operations System Office (MOS). Agreed with ESA in Operation Interface Agreement (OIA), L2a standard products will be provided by 24 hours after observation, and L2b standard products will be provided by 48 hours after observation. On the other hand, research products are defined to be more challenging variables, and they are further divided between ER products and LR products. The ER (an abbreviation for "EORC Research") products will be processed and released from JAXA Earth Observation Research Center (EORC). The timeline is not defined in JAXA, but will be done on best-effort basis. The LR (an abbreviation for "Laboratory Research") products will be processed and released from the cooperation with Japanese Laboratories (including universities and research institutes), which are also on best-effort basis.

Keywords: Cloud, Aerosol, Radiation, Satellite, Cloud Profiling Radar