

A webGIS-based application of solar radiation data and related information

*Ken T. Murata¹, Atsushi Higuchi², Hideaki Takenaka³, Yohei Yamaguchi⁴, Shinya Yoshizawa⁵, Takashi Nakajima⁶

1. National Institute of Information and Communications Technology, 2. Center for Environmental Remote Sensing (CEReS), Chiba University, 3. JAXA/EORC, 4. Osaka University, 5. Waseda University, 6. Research and Information Center, Tokai University

We are introducing a WebGIS-based visualization application of solar radiation data delivered from Himawari satellite data. This WebGIS application is a part of results in "Development of a geoscientific data analysis system for harmonized utilization of the terrestrial renewable energy" in "Creation of Fundamental Theory and Technology to Establish a Cooperative Distributed Energy Management System and Integration of Technologies Across Broad Disciplines Toward Social Application" project in CREST/JST. The objective of the WebGIS application is to visualize solar radiation data in real time with other related data, such as human activity data or electric power line data. The spatial scale of the visualized data is smaller than city size. We present the WebGIS application and discuss how we can extend this technique to other subjects in Earth science.