

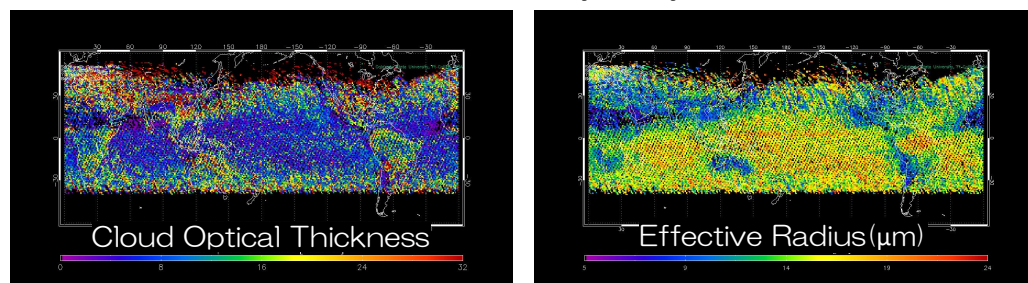


PI: Takashi Nakajima
Tokai University

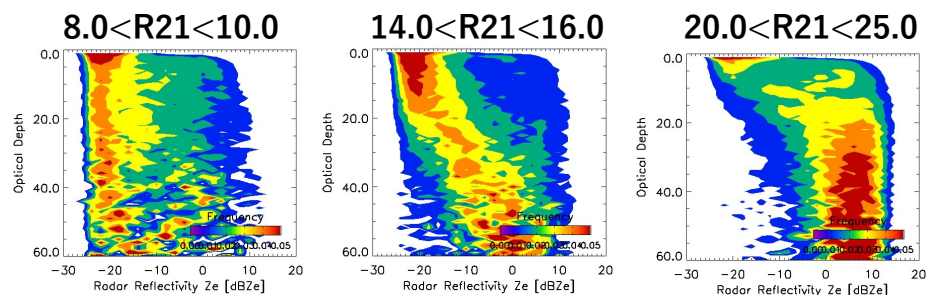
Maintain of the SGLI cloud retrieval algorithms and collection of validation data: activities in FY2021

- MODIS-AUX data were analyzed by CAPCOM algorithm, and conformed that this algorithm works well. And obtained CFODD.
- New challenge of the cloud flag validation at Lambir Hills National Park (Malaysia) with courtesy of the PEN project

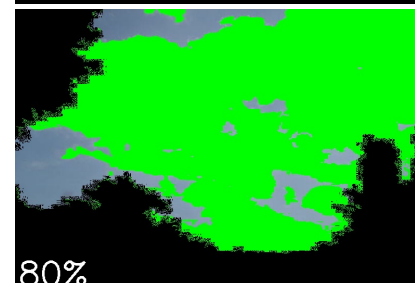
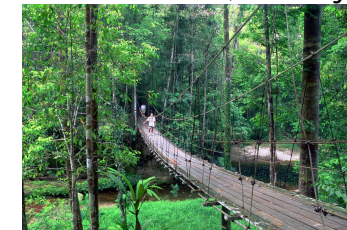
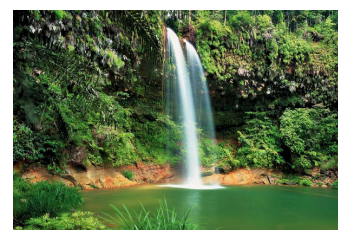
MODIS-AUX(L1B) data analysis by CAPCOM Ver.104



CFODD analysis (Apr, 2009,10,11)



Validation of the cloud flag at
Lambir Hills National Park (Malaysia)



- ① Letu, H., and Coauthors, 2021: A new benchmark for surface radiation products over the East Asia-Pacific region retrieved from the Himawari-8/AHI next-generation geostationary satellite. *BAMS.*, accepted.
- ② Letu, H., and Others, 2021: Cloud, Atmospheric Radiation and Renewal Energy Application (CARE) Cloud Top Property Product from Himawari-8/AHI: Algorithm Development and Preliminary Validation. *IEEE TGRS.*, in revision
- ③ 樋口篤志, and Coauthors, 2021: 次期ひまわり搭載イメージャーに関する検討 (その2). 日本気象学会春季大会.
- ④ Nakajima, T. Y., T. M. Nagao, N. Shin, K. Shimizu, and T. Eto, 2021: Discrimination of the cloud cover from ground-based sky images. *6th International SKYNET Workshop 2021.*
- ⑤ 松本由布, 王敏睿, and 中島孝, 2021: 極軌道衛星を用いた雲特性の長期全球解析 (その1: 研究計画). 日本気象学会秋季大会.
- ⑥ 王敏睿, and 中島孝, 2021: EarthCARE/MSI雲プロダクトにおけるSmile effectの定量的評価. 日本気象学会秋季大会, 日本気象学会.