

# The SKYNET network, a ground-based validation observatory: present status and future developments

M. Campanelli<sup>a</sup>, H. Irie, H. Che, D.Liu, V. Estelles, H.Diémoz, V-K. Soni, G. Pandithurai, S.W. Kim, J.K.Koo, N. Tugjsuren, T. Jarupongsakul, T. Nishizawa, A. Higurashi, P-Khatri, M. Hashimoto, M. Momoi, Y. Choi, R. Kudo, K.Aoki, A.Uchiyama, B.Olivieri, and T. Nakajima

<sup>a</sup> ISAC-CNR, Via Fosso del cavaliere 100, Rome, Italy

Presenting:

\**MonicaCampanelli (m.campanelli@isac.cnr.it)*

SKYNET is a ground-based radiation observation network dedicated to aerosol-cloud-solar radiation interaction<sup>1</sup>consisting of more than 100 sites worldwide located, most of them, in Asia where the network originally was born. In 2020 the creation of an International SKYNET data center (ISDC) set off the new structure of the network: an ISDC, providing standard aerosol products (<https://www.skynet-isdc.org>) by two data analysis flows (ESR-MRI & SR-CEReS) and several regional sub-networks contributing for operation and maintenance of the associated instrumentation and for testing new research products. SKYNET is therefore a perfect ground-based observatory for satellite validations.

This work will show the present status of SKYNET, and the future developments with a particular focus on the validation activities in which the network is involved both in terms of algorithms and of synergistic collaboration with other networks, showing also the most important international projects SKYNET is involved in.

## References

- [1] Nakajima, T., Campanelli, M., Che, H., Estellés, V., Irie, H., Kim, S.-W., Kim, J., Liu, D., Nishizawa, T., Pandithurai, G., Soni, V. K., Thana, B., Tugjsurn, N.-U., Aoki, K., Go, S., Hashimoto, M., Higurashi, A., Kazadzis, S., Khatri, P., Kouremeti, N., Kudo, R., Marengo, F., Momoi, M., Ningombam, S. S., Ryder, C. L., Uchiyama, A., and Yamazaki, A.: An overview of and issues with sky radiometer technology and SKYNET, *Atmos. Meas. Tech.*, 13, 4195–4218, <https://doi.org/10.5194/amt-13-4195-2020>, 2020.

Preferred mode of presentation: Oral/Poster