Research Institute for Sustainable Humanosphere (RISH), Kyoto University
--- Database of atmospheric radar observations ---

Hiroyuki Hashiguchi, Toshitaka Tsuda, Masato Shiotani, Mamoru Yamamoto, and Atsuki Shinbori
Contact: hasiguti@rish.kyoto-u.ac.jp

**IUGONET project aims at establishing “e-infrastructure” for researchers to effectively find, get, and analyze various kinds of upper atmospheric data spread over Japanese universities and institutes.**

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**Metadata database**

[http://search.iugonet.org/iugonet](http://search.iugonet.org/iugonet)

**Data analysis software**


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**The MU (Middle and Upper atmosphere) radar since 1984**

The MU radar installed in Shigaraki, Shiga, Japan (34.85°N, 136.10°E) is one of the most powerful and multi-functional VHF-band atmospheric radar with an active phased array system consisted of 475 antenna elements. The MU radar has a monostatic circular antenna with a diameter of 103 m, which can be divided to 25 independent subarrays. The MU radar, which is the first large-scale MST radar with a two-dimensional active phased array antenna system in the world, was selected for an IEEE Milestone.

Observation databases since 1984 are opened in the following web site.

**Databases:**

- [http://www.rish.kyoto-u.ac.jp/ear/index-e.html](http://www.rish.kyoto-u.ac.jp/ear/index-e.html)

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**The EAR (Equatorial Atmosphere Radar) since 2001**

The EAR is a VHF-band atmospheric radar located in Kototabang (100.32°E, 0.20°S), West Sumatra, Indonesia. The EAR is a large monostatic radar which operates at 47.0 MHz with peak output power of 100 kW. The scientific objective of the EAR is to advance knowledge of dynamical and electrodynamical coupling processes in the equatorial atmosphere from the near-surface region to the upper atmosphere. The equatorial atmosphere over Indonesia is considered to play an important role in global change of the Earth’s atmosphere.

Observation data are opened in the following web site.

**Databases:**

- [http://www.rish.kyoto-u.ac.jp/ear/index-e.html](http://www.rish.kyoto-u.ac.jp/ear/index-e.html)