SMOKA (Subaru-Mitaka-Okayama-Kiso-Archive system) is the science archive system providing access to public data of the Subaru Telescope, the 188cm telescope at the Okayama Astrophysical Observatory, the 105cm Schmidt telescope at the Kiso Observatory of the University of Tokyo, MITSuME telescopes of Tokyo Institute of Technology, and the 150cm Kanata telescope of Hiroshima University. Everyone can get the data for the purposes of astronomical research or education.

SMOKA is developed and operated by the Astronomy Data Center of National Astronomical Observatory of Japan.

http://smoka.nao.ac.jp/

Current Status of SMOKA (Ver. 3.7)

Development Status (in the past year)
(2016 Jan. 08) MITSuME data include our astrometric calibration
(2016 Feb 19) SHOT mode of the output format for Hyper Suprime-Cam (HSC) is supported
(2016 Apr. 04) MITSuME pin-point Search is available
(2016 Jun. 14) Minor Bodies Search is available (MITSuME/Akeno)
(2016 Jul. 11) All Keywords Search is available (Kiso/KWFC)
(2016 Jul. 27) Minor Bodies Search is available (MITSuME/Okayama)
(2016 Nov. 26) Requested Data Cleanup Service is available

Archived Data
At present, SMOKA mainly provides raw data. Quick look images (QLI) and Weather information (temperature, humidity, images taken by the sky monitor, etc.) are offered as well.

Products of SMOKA
Refereed Papers using SMOKA data

Future Works
- Provide data applied astrometric calibration: Subaru/Suprime-Cam, Kiso/KWFC...
- Provide images applied astrometric calibration: SkyMonitor Imaging Data Service System (Okayama, Akeno, Higashi-Hiroshima)
- Provide known Supernova Search System

Use Cases of SMOKA Data
- Using SMOKA data
  - Only: 14
  - Main resource: 66
  - Additional data: 105
  - Calibration data: 14

Statistics
Users (current fiscal year): 220 (2016.04.01 - 2017.01.04)
Data Request (/month): 10,000-100,000 frames (100-1,000 GB)

Subject of Research
- Solar System: 11
- Stars: 36
- Nearby galaxies: 39
- High-z galaxies: 72
- Cosmology: 31
- Others: 8

Use Cases of SMOKA Data
- Sky Monitor Imaging Data Service System
- Kiso/Tomo-e Gozen
- Query using indices of quality assessment

Future Works
- Provide data of the new observational instruments: Kiso/Tomo-e Gozen
- Provide known Supernova Search System

SMOKA Staff Members