

Current Status of SMOKA

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<https://smoka.nao.ac.jp/>

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, the 150cm KANATA telescope of Hiroshima University, and the 2m Nayuta Telescope of Nishi-Harima Astronomical Observatory. Everyone can obtain the data for the purposes of astronomy and education. SMOKA is developed and operated by the Astronomy Data Center of National Astronomical Observatory of Japan.

SMOKA Science Archive

"Dear SMOKA users"

Due to the inspection of the power supply in MITSuME, SMOKA will be down from 7:00 to 7:30 on Nov. 30, 2019 (JST). We are sorry for your inconvenience. (Sep. 25, 2019)

Due to a system maintenance, SMOKA will be down from 08:00 to 18:00 on Dec. 16 (JST). We are sorry for your inconvenience. (Sep. 25, 2019)

NAOJ Privacy Statement / Application Unavailable Policy

NAOJ serves you this privacy statement as our commitment to you to protect the security and privacy of your personal data on network services in NAOJ. (Learn more: The details policy of our network services)

You agree to accept our services by the terms and conditions of our privacy policy. If you have any questions, please contact us here. (May 25, 2018 JST)

Due to lack of maintenance of the services are suspended. We are sorry for your inconvenience. (2018.04.09)

We consider closing further services due to more lack of manpower and budget cut. (2018.04.02)

SMOKA ver 3.7

New Feature!

- Photographic Plate Archive is available (Nov. 11, 2019).
- DATA DATA Browser can allow users to select keywords to the data compress and collect option (Nov. 30, 2019).
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- CHARIS data of Subaru Telescope are released. Please refer the notice about CHARIS public data (Nov. 18, 2019).
- MuSCAT data of the OAO are now released (Nov. 15, 2019).

SMOKA provides public science data obtained at Subaru Telescope, 188cm telescope at Okayama Astrophysical Observatory, 105cm Schmidt telescope at Kiso Observatory University of Tokyo, TITech MITsuME telescopes, and KANATA Telescope at Nishi-Harima Observatory. It is intended mainly for astronomical researchers.

Current Status of SMOKA (Ver. 3.7)

32 Instruments

- Subaru : Suprime-Cam (SUP), FOCAS, HDS, OHS/CISCO, IRCS, CIAO, COMICS, CAC, MIRTOS, MOIRCS, Kyoto-3DII, HiCIAO, FMOS, HSC, **CHARIS, IRD, SWIMS, MIMIZUKU**
- Okayama : ISLE, KOOLS, HIDES, OASIS, SNG, **MuSCAT**
- Kiso : 1kCCD, 2kCCD, KWFC, **KISO Schmidt Plates digitized data (2019 Sep. 11)**
- MITSuME : MTA, MTO
- Higashi-Hiroshima : HOWPol, HONIR
- Nishi-Harima: **NIC**
- Seimei : **KOOLS-IFU?**

Statistics

Registered Users

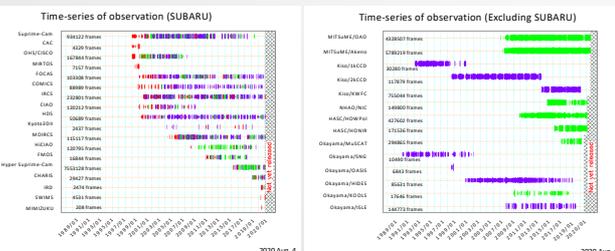
(necessary for data request):
148 (2020.04.01 - 2020.08.06)

Data Request (/month):

100,000-100,000 frames
(10-100 TB)

Archived Data

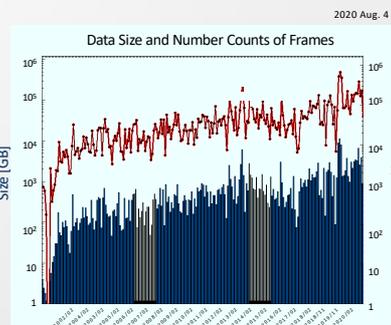
SMOKA mainly provides **raw data**. **Quick look images (QLI)** and **Weather information** (temperature, humidity, images taken by the sky monitor, etc.) are offered as well.



	Frames	(TB)	Occupation	Since
Subaru	11,903,348	190.5	18 months	1999~
Okayama	983,238	6.2	2 years	1991~
Kiso	1,554,928	10.0	1 year	1993~
MITSuME	12,343,806	24.8	1 year	2007~
Higashi-Hiroshima	747,149	6.6	18 months	2010~
Nishi-Harima	185,446	0.7	18 months	2019~
Total	25,804,948	220.9		

2020 Aug. 6

Increased size over the past year: 50 TB

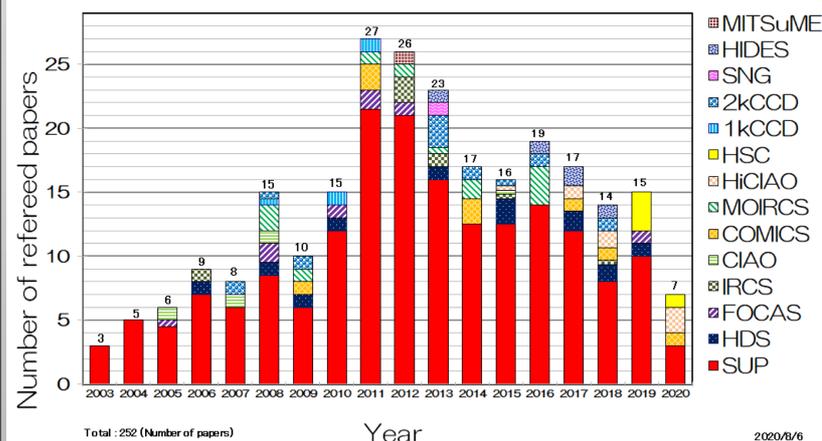


Products of SMOKA

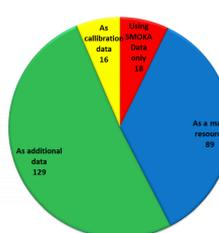
Refereed Papers using SMOKA data

2003-2020: **252** papers (A&A, ApJ, AJ, PASJ, MNRAS, PASP, etc.)

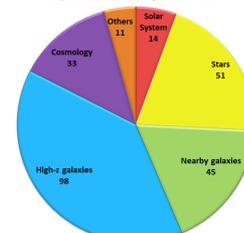
Papers in Main Journals



Use Cases of SMOKA Data in Astronomical Papers



Subject of Research using SMOKA Data



Future Works

- New instruments:
 - Seimei/KOOLS-IFU ?
 - Okayama/HIDES-F ?
 - Kiso/Tomo-e Gozen ?