Current status of SMOKA

Astronomy data center, NAOJ

Yuichi Higuchi
Contents

1. Development status of SMOKA
2. Users and Data requests
3. Products of SMOKA
What is SMOKA
SMOKA (Subaru-Mitaka-Okayama-Kiso Archive system) is a data archive system providing public data

- 8.2m Subaru Telescope (Hawaii Obs.)
- 188cm Telescope (OAO)
- 105cm Schmidt Telescope (Kiso Obs.)
- MITSuME Telescopes (Akeno Obs., OAO)
- 150cm Kanata Telescope (Higashi-Hiroshima)

SMOKA provides data after proprietary period. Data requests and downloads are available after the user registration.

<table>
<thead>
<tr>
<th></th>
<th>frames</th>
<th>(GB)</th>
<th>Occupation</th>
<th>Since</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subaru</td>
<td>2,374,794</td>
<td>30,187.7</td>
<td>18 months</td>
<td>1999~</td>
</tr>
<tr>
<td>Okayama</td>
<td>370,152</td>
<td>4,264.1</td>
<td>2 years</td>
<td>1991~</td>
</tr>
<tr>
<td>Kiso</td>
<td>590,954</td>
<td>4,281.8</td>
<td>1 year</td>
<td>1993~</td>
</tr>
<tr>
<td>MITSuME</td>
<td>6,549,234</td>
<td>13,474.7</td>
<td>1 year</td>
<td>2007~</td>
</tr>
<tr>
<td>Hiroshima</td>
<td>230,344</td>
<td>2,097.3</td>
<td>18 months</td>
<td>2010~</td>
</tr>
</tbody>
</table>

http://smoka.nao.ac.jp

SMOKA ver 3.6

[New Feature]
- Number of Frame Search (test version) is now available (Jun. 03 2014).
- SkyMonitor Imaging Data Service System is now available (Japanese Only)
- KWFC data from the Kiso 105cm Schmidt Camera are now released.

SMOKA provides public science data obtained at Subaru Telescope, 188cm telescope in Tokyo, MITSuME, and KANATA Telescope at Higashi-Hiroshima Observatory.

SMOKA has been developed and maintained by Astronomical Data Archives.

Resources
- SMOKA Web Index
- SMOKA Overview and How To Search and Request Data
- Online Help
  How to use SMOKA for a detail, and descriptions of reduction method.
- User Registration
  You need to register if you wish to retrieve FITS data.

Data Search
Abbreviations for search available data of telescope or observatory are as follows:
- Simple Search
- Advanced Search
- SUP Search
- Calendar Search
- MB Search
- Overlapped Area Search
- New Overlapped Area Search

1/5/2015
Development status of SMOKA

current version: 3.6

-Released HSC engineering data (2/14/2014)

-Opened the SkyMonitor Image service (3/20/2014)

-Released All 2kCCD/Kiso data (6/3/2014)

-Opened the Number of frames search (6/8/2014)

-Improved the data request system (7/1/2014)
Development status of SMOKA (1/3)

- Released HSC engineering data (2/14/2014)
  * under the another data search system due to FITS problems.

- **observation data**
  - observed in 2012, 2013
  - 1380 shots on 1/5/2015

- **search condition**
  - observation date
  - object name

- **future work**
  - release open use data (Sep. 2015)

[http://smoka.nao.ac.jp/ENG/index.jsp](http://smoka.nao.ac.jp/ENG/index.jsp)
Development status of SMOKA (2/3)
Open the number of frames search (6/8/2014)

• Get the number of frames and IDs on the inputted coordinates.

• Instruments
  S-Cam
  2kCCD/Kiso

※Searches are available for only astrometric calibrated frames.
Development status of SMOKA (3/3)

-Open the SkyMonitor Image service (3/20/2014)

Images of the SkyMonitor (JPEG)
released by next day
  -Okayama (every 1 minute)
  -Hiroshima (every 2 minute)

Search condition
  -observation date and time
  -sidereal time
  -existence of the moon and planets

Future work
  add facilities; automatic identification for weather etc.
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Users and Data requests

- **Number of Users** (renew every fiscal year)
  267 (4/1/2014-1/5/2015)

- **Data requests**
  $10^4$~$10^5$ frames/month
  100~1000GB/month
  S-Cam/Subaru data are most requested
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Products of SMOKA

- Papers using SMOKA

2003-1/7/2015: 166 papers
Afterword

Please use SMOKA for your studies!
Details of this talk are shown in our poster(P22)
END