Current Status of SMOKA

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Introduction

What’s SMOKA?

Subaru-Mitaka-Okayama-Kiso-Archive (SMOKA) is the science archive system providing public data observed with Japanese ground-based telescopes;

- Subaru Telescope (8.2m)
- Okayama 188-cm telescope
- Kiso 105-cm Schmidt telescope

SMOKA has been developed and operated by Astronomy Data Center (ADC), National Astronomical Observatory of Japan (NAOJ) at Mitaka, Tokyo, Japan.

http://smoka.nao.ac.jp/
New Features of SMOKA

SMOKA  Ver. 3.0

New search interfaces  (May 2006~)

★SUP Search
Searching Suprime-Cam data

★All Keywords Search
Searching frames with all FITS header keywords

★Full-Text Search
Searching frames from any words in FITS headers

Release data of new instruments  (July 2006~)

★MOIRCS
Multi-Object InfraRed Camera and Spectrograph

★Kyoto-3DII
Kyoto Tridimensional Spectrograph II
5,000-20,000 frames (~100-300GB) are requested in a month. Now 185 users are registered (as of Jan 2007).
Products of SMOKA


  3 papers in 2003 (SupCam 3)
  5 papers in 2004 (SupCam 5)
  6 papers in 2005 (SupCam 5, CIAO 1)
  9 papers in 2006 (SupCam 7, HDS 1, IRCS 1)
  3 papers in 2007 (SupCam 1, CIAO 1, 2kCCD 1)

• SMOKA data is used for educational purposes.

  PAOFITS-WG (http://paofits.dc.nao.ac.jp) has developed some teaching materials for high school students.
Future Plans of SMOKA

• Release data of new telescopes /instruments
  MITSuME, ISLE, FMOS,…

• Making original catalogs of objects :
  We are planning to release the original catalog of objects in deep fields and will proceed astronomical studies.

• Data supply to Virtual Observatory (VO) :
  SMOKA is expected to be the major resource of Subaru Telescope and other optical-IR telescopes in Japan for VO.

• Development of data quality assessment system, NAQATA :
Data Quality Assessment System, *NAQATA*

*NAQATA* is a data quality assessment system for observed data obtained by the Subaru Telescope.

-- Verification of FITS Data
-- Evaluation of Data Quality

Final goal:
To construct a quality control system

=> Real time feedback of data quality operation.

=> Such a feedback system gives us materials to consider the observation strategy (target, integral time, etc.).

*SMOKA* uses some components of *NAQATA* so that data quality indices are available for archival search.

=> SUP Search