

# Current Status of SMOKA

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Motohiro ENOKI (榎基宏)

Astronomy Data Center

National Astronomical Observatory of Japan

# 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~)**

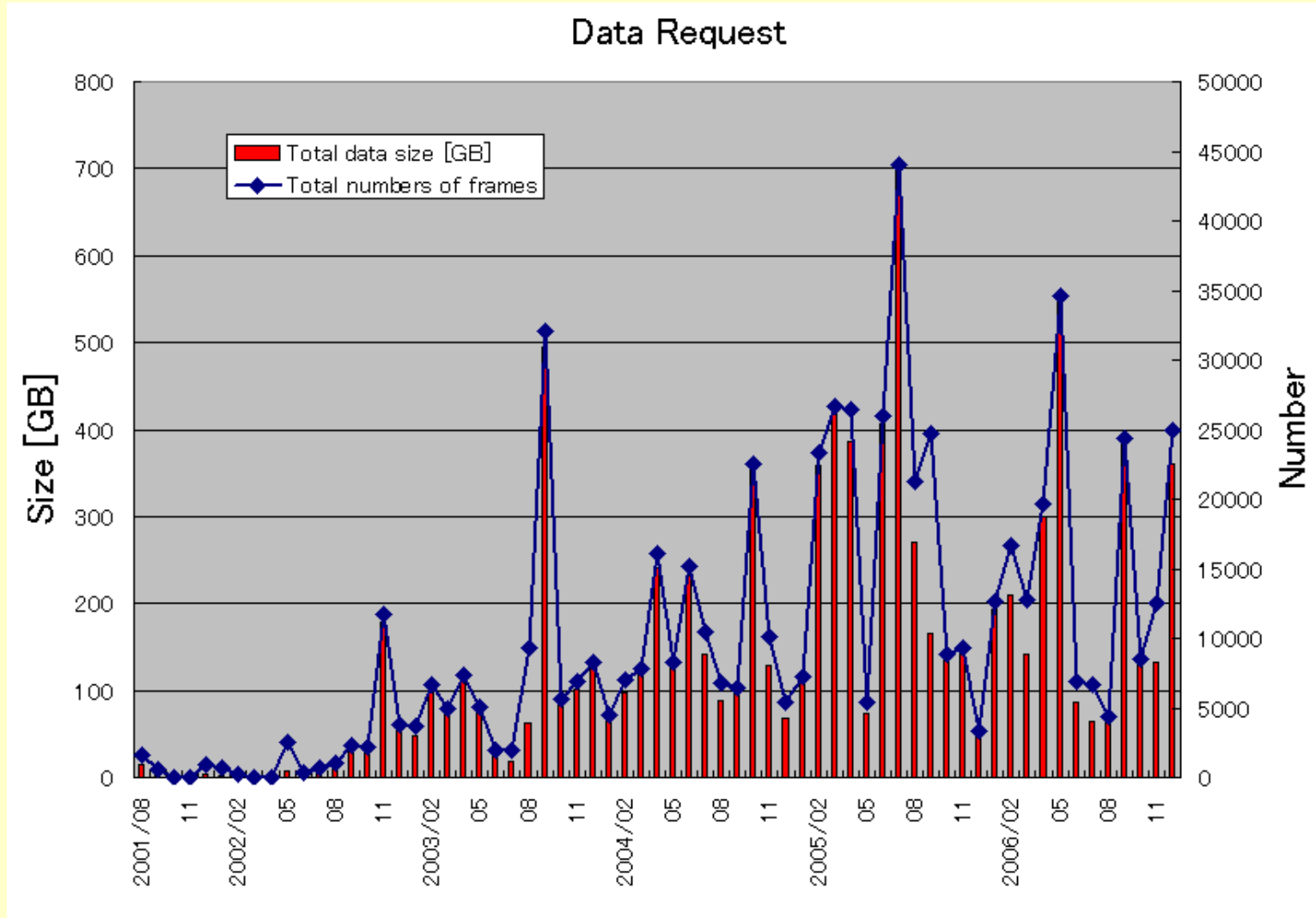
### ★MOIRCS

Multi-Object InfraRed Camera and Spectrograph

### ★Kyoto-3DII

Kyoto Tridimensional Spectrograph II

# Status of Data Request



5,000-20,000 frames (~100-300GB) are requested in a month.

Now 185 user is registered (as of Jan 2007).

# Products of SMOKA

- Total 26 papers using SMOKA have been published in major journals (ApJ, AJ, PASP, PASJ, MNRAS) .

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