

Computer and Data Management Division Report

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Service Status

Network

- No major changes since last report.
- Mitaka NOC is arranging for 10Gbps link between Hilo and Tokyo. Currently our dedicated link between Hilo and Mitaka is 1Gbps.

ProMS

- New forms for HSC Queue (Normal) and HSC Filler Programs have been available since S16B CFP.
- The “Technical Justification” item has been added to Service Program since S17A CFP.

HSC On-site Data Analysis System

- Operational and no change for the hardware of the production system.
- We are evaluating the high-speed network filesystem by erecting the test hardware system to resolve slow processing that occurs when high rate of data comes from HSC. We are closely working with Takata-san and Furusawa-san for the evaluation.
- We are supporting the addition of computers to the existing “Konan University System” led by Tanaka-san. Konan University System processes the HSC data on the fly and is used to detect transient objects.

STARS and MASTARS

- To be reported by Tom Winegar.

Replacement of the major computer system

STN₄ to STN₅

- The procurement process started.
- The following systems will be replaced in March 2018.
 - STARS/MASTARS
 - Web servers
 - Internal servers
 - Internal network
 - Instrument control computers (OBCP) in VM and Gen2 hardware – TBD
 - Data analysis server for staff and observers - TBD
- No major change or reduction of service is expected.
- Hiccup of the service may occur from January to March 2018 due to switching hardware.

Subaru Telescope Archive - STARS

Passwords longer
12+ char today

Observer Download
lftp beta-S17

HSC Compressed MTK
fpack today

Subaru Telescope Archive - STARS

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fpack today

Login Passwords are minimum **12** characters
and require a **mixed character set**

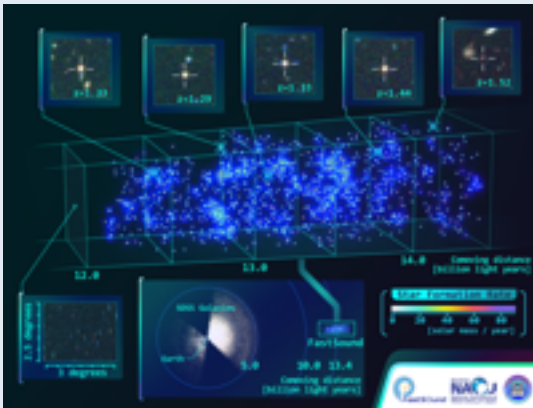
1 – **lower** case [a – z]
1 – **UPPER** case [A – Z]
1 – **Numeric** [0 – 9]

More than one word?

3-4 small words

Put **UPPER** & **Numeric** in middle!

mic@Chair6scream



Subaru Telescope Archive - STARS

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fpack today

During Observation at night

~15 min Hilo / ~30 min MTK

LFTP has **parallel** GETs

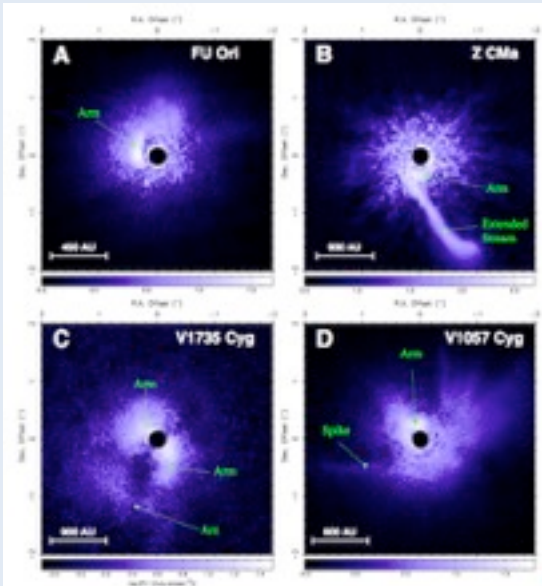
--parallel=10

Observer Query Email to PI

~10:00 JST / 15:00 HST for tonight

Cron or Python-Timer ~10 minutes

1 user per archive



Subaru Telescope Archive - STARS

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Observer Download
lftp beta-S17

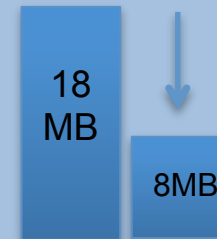
HSC Compressed MTK
fpack today

HSC Compressed MTK - *.fits.fz

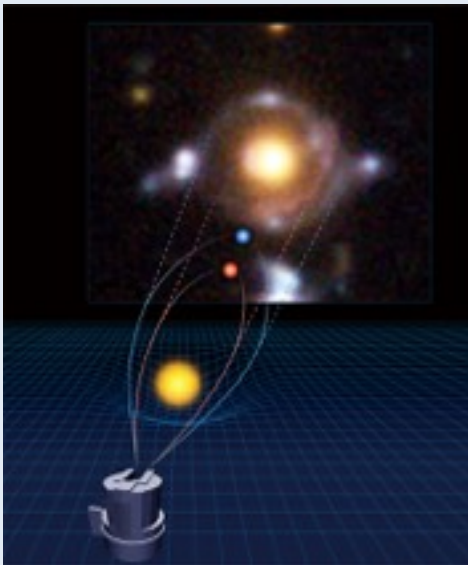
April 2016 - current

18 MB -> 7 - 9 MB

~40% original size



Use [Raw / **Zip**] on Query Screen



A screenshot of the Subaru Telescope Archive query interface. At the top, there is a green button labeled 'Store Query' next to a green input field labeled 'QueryName' containing the text 'o16008_HIC'. Below this is a link that says 'Show Extra Parameters? & Receiving Calibration?'. A yellow banner contains the text: 'To Download Data: Press {Store Query}, then select yellow link {Last S' and its Japanese equivalent. At the bottom, there is a row of controls: 'Field Sets: HIC' followed by a dropdown menu showing 'None', 'Raw/Zip:' followed by a dropdown menu showing 'Zip', and a 'Search' button.

Subaru Telescope Archive - STARS

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Observer Download
lftp beta-S17

HSC Compressed MTK
fpack today