Mitaka Remote Observation

Merits
- Travel in Japan
  (easy to reserve tickets, less expensive(!))
- Short travel time

Demerits
- Limited Functions and Support
- Risk of Bad communication

Do you?
Background (to my understanding)

In this session 3, an important but maybe not explicitly talked issue is that the budget for Subaru operation is getting less and less.

Subaru project member and users must set “priorities”, on which finite resources should be spent.

In fact, Mitaka remote costs few, but not negligible.
Why NOW?

If we need more/new functions in the Mitaka remote, it is the time to plan. The system will be replaced on 2008/03 (or so).

e.g.) Multiple clients both from Hilo/Mitaka?
Remote instrument monitors?
Remote monitor from Institute?
Current Status

Remote Observation @Institute

- Telephone (or TV conf, if you have your system)
- No warranty
- Raw data @MASTARS via GW connection is narrow
- Observers pay network fee (in case of ISDN)
Current Status

Remote Observation @Mitaka

- TV conf.
- QuickLook in a few seconds
- Quick analysis on “sbana”
- Telescope status, skymonitor command monitor, etc.
- Operation (eg. Slit alignment), technically possible, but not permitted (by policy)
Current Status

Remote Observation @Mitaka

Testing only when following conditions are met
- Subaru Mitaka staff joins
- Several divisions approve
- More than one PI/Co-I is at Hawaii
Difficulties
Remote Observation@Mitaka
1) Network connection between Hawaii and Mitaka is not 100% reliable. (c.f. Summit-Hilo is very stable)

*Currently, at least one PI/Co-I should be at Hilo to continue observation
Difficulties

Remote Observation@Mitaka

2) No Support Scientists/Operator at Mitaka.
Technical advises not available.

3) Accommodation:
Observation ends around 2:00 AM (JST).
Cosmos-Kaikan would be the best, but often(?) be full...
Difficulties

Remote Observation@Mitaka

4) Not all Instruments(OBCP) status monitors are available. If some are at Hilo, and some are at Mitaka, we need multiple clients.
easy

summit

Hilo

so-so

summit

Mitāka

Hilo

difficult...

summit

Mitāka

Hilo
Difficulties

Remote Observation@Mitaka

5) Small but non-negligible time lag; the light speed is finite. If one tries to “operate”, the lag could be critical(?)

  e.g.) Impatient person may click twice or more.
Note: the following ideas/plans are not authorized, not discussed widely in Subaru project.

Request for comments.
Phase 1: (if OK, 2006-, maybe)
Openuse Mitaka remote
*One or more PI/Co-I at Hawaii
*At Mitaka, status monitor and quicklook / quick reduction is available, with TV connection. (no operation from Mitaka)
*PI should mail to mtkremote-req @ optik.mtk.nao.ac.jp
1 week before the observation, and be approved.
Phase 2: (2008??)
Mitaka remote with new system
*After replacement of computer
*Some operation from Mitaka, such as slit positioning.

(What do you want to do from Mitaka? Comments please)

Phase 3: (??????)
Remote monitor from Institute?
(in Queue observation? What do you want to watch?)
We need testers, would you try?