Report on the GSI VLBI Activities

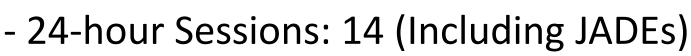
Ryoji KAWABATA, Takahiro WAKASUGI, Shinobu KURIHARA, Yoshihiro FUKUZAKI, Jiro KURODA, Kojin WADA Routine Operations: Observation

Observation Plan for FY2014

- Tsukuba-32m
 - 1-hour Intensives : 148 (Every Mon., Sat., Sun.)
 - 24-hour Sessions: 78

(Including CONT and JADEs)

• Aira 10-m & Chichijima 10-m









Routine Operations: Correlation and Analysis

- JADEs (Japanese Domestic Sessions)
 - 5 sessions in FY2014
 - Baselines including 2 VERA stations and 3 NICT stations
- Intensives
 - 107 sessions for UT1 measurements
 - Automated Processes in weekends
- GSI VLBI Solutions
 - Two global solutions (Sep. and Mar.) in this FY

CONT14

- 15-days Continuous VLBI campaign from 6 May
- 17 Stations (7 in southern hemisphere)
- Half data e-transferred (Including Tsukuba) to Bonn



CONT14 (Cont.)

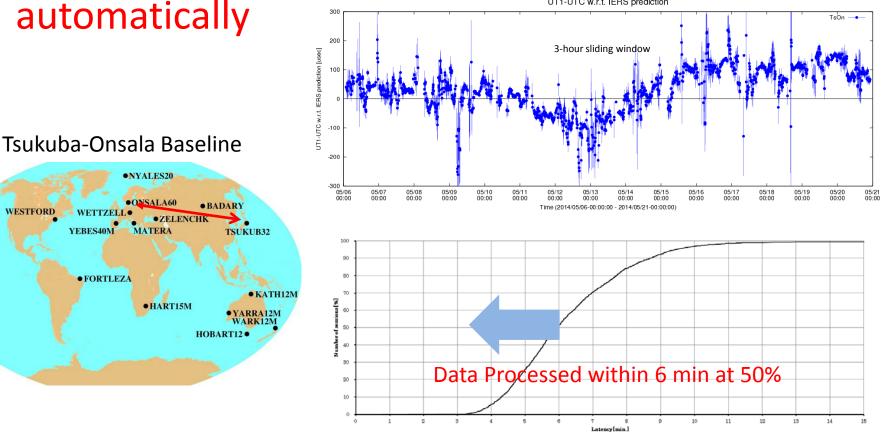
- 512Mbps (256Mbps for usual IVS sessions)
- Tsukuba observed 8000 scans in total (i.e. ~2.5 min interval with ~25 sec rec.)
- Tsukuba also observed INT2 (weekends) during CONTs (downtime)
- Switching sessions in Unmanned Operation
- No Serious Problem

CONT14 (Cont.)

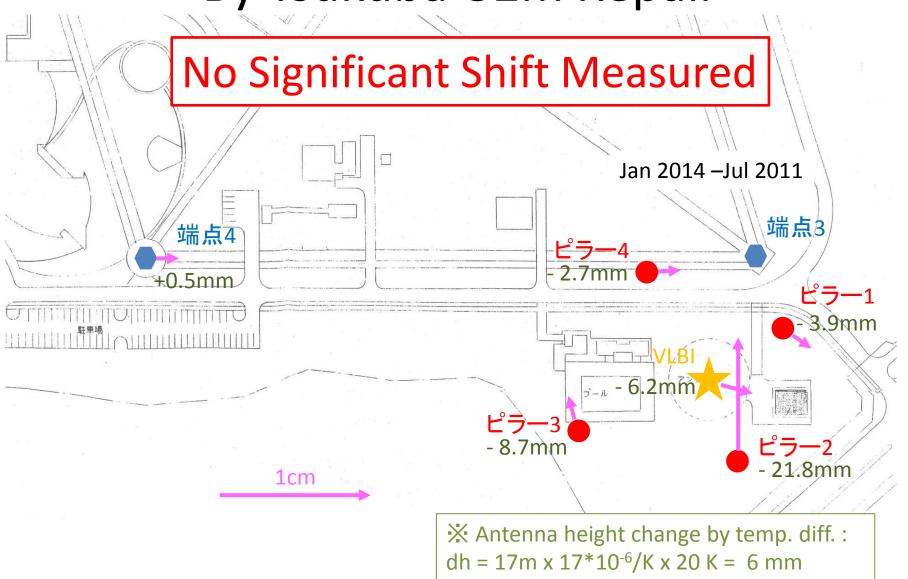
• Ultra-rapid EOP Determination by GSI

KOKEE

• Onsala data e-transferred and processed



Position Shift By Tsukuba-32m Repair



Local-Tie for Three Station

| Year, Month | Site | σ for Baseline | Submission to IERS | Contribution to ITRF |
|--------------------|---------------|-------------------|-----------------------|---------------------------------|
| 2001 <i>,</i> Mar. | Tsukuba | | Yes | ITRF2005 |
| 2006, Oct. | Chichijima | 1.4 mm | | |
| 2008, Feb | Tsukuba | 1.0 mm | Yes | ITRF2008 |
| 2008, Oct. | Aira | 2.3 mm | Yes | ITRF2013? |
| 2010, Sep. | Shintotsukawa | 0.4 mm | Yes | ITRF2013? |
| 2011, Jul. | Tsukuba | 1.1 mm | Yes | ITRF2013? ^{つくは} (多角 |
| 2013, Feb. | Chichijima | 1.0 mm | Yes | ITRF2013? |



Submitted to IERS in Feb 2014



Very Very Recent Topics

• Inauguration of Ishioka VGOS Station on 28 Oct.



Very Very Recent Topics

- IVS Board Meeting on 27 Oct.
 - Held twice per year
 - 16 Directing Board Members
 - Determine policies, standards, and goals of IVS
 - Held in Tsukuba 12 years ago
- This Symposium of course . . .

iGOS, It's Plan

Ishioka Geodetic Observing Station (iGOS) for GGOS - VGOS telescope in Ishioka

- 2014.3
 - New 13-m Telescope Constructed
- FY 2014
 - Tentative Observation (System Integration)
- FY 2015-2016
 - Legacy S/X Observation
- FY 2017-
 - Full VGOS Observation

GSI Regional Stations

- GNSS could take over Monitoring Plate Motions around Japan from VLBI (Takashima+13)
- Sintotsukawa

Operation was Finished in 2013

- Aira & Chichijima
 Operation will be Finished in FY2014
- No JADE in FY2015



Asia-Oceania VLBI Group for Geodesy and Astrometry (AOV)

- Subgroup of IVS (c.f.EVGA)
- ToR established in this September
- 12 Institutes: 4 in JP (GSI, NAOJ, NICT, NIPR)
 2 in KR, 3 in CN, 3 in AU, 1 in NZ
- Jim Lovell elected to Chair
- Jim appointed RK Secretary
- GSI actively involved in AOV

AOV Activities have just Started !!

Thank you