National Institute of Information and Communications Technology

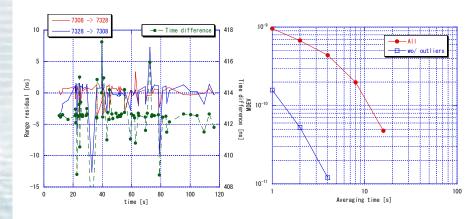
T2L2 calibration using two SLR stations in Koganei re-commissioning KSP system

Hiroo Kunimori and Miho Fujieda (NICT)

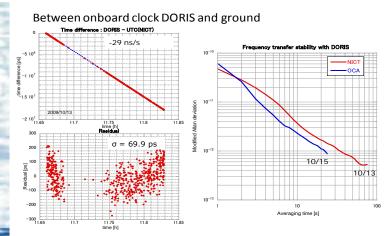
Status of stations

	7308 Tokyo or CRLS	7328 Koganei KOGL
Status	It has participated 1-st T2L2 campaign 2009. In 2010 it had problem on telescope. After ILRS quarantine process was over, system start for the 2 nd campaign with other Japanese stations, however, the data of common passes were rare. The system operation is funded by the project newly launched Japanese GNSS satellite QZS-1.	Since the system ceased observation in 2002, it is gradually set up in 2010 for T2L2 calibration. Re-commission of satellite pass was taken in end of July. System has low power mode only It can get LEO satellite and marginal to get beyond to LAGEOS. ILRS quarantine process was over in January 2011.
	The system operation is funded by the project Japanese GNSS satellite QZS-1. System is safe but low productivity after major Earthquake M9.0 and electric power instability.	
Telescope	1.5m diameter	75cm diameter
Laser	50mJ 50ps 20Hz 532nm	10mJ 50ps 20Hz 532nm
Clock	UTC-NICT	UTC-NICT or H-maser

Common-clock time transfer results



T2L2 first campaign



Re-Commissioning Koganei 7328 Dome and Building



Non common-view mode

W/STFT

NICT/JAPAN

GEO communication satellite

T2L2

Jason2

OP etc./Europe



L00-150r

between station and

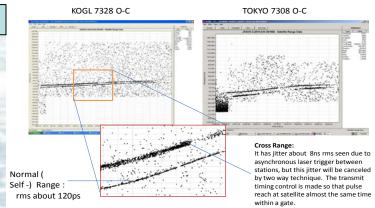
Common-clock Time Transfer using two stations in the same footprint covered by cube corner reflection

The 1st campaign in 2009 The results shown left corner below ⇒ Non common view transfer The second campaign in 2010 to try common view with Japanese stations.

Calibration of two stations in Koganei using common clock.



Self- and Cross Ranging to JASON2



Acitivities on T&F transfer NICT •QZSS

- Entry to T2L2-TWSTFT experiment
- •RF & optical carrier transfer via optical fibers