

A light blue map of East Asia, showing the Korean Peninsula, Japan, and the surrounding seas, serves as a background for the text.

East Asia VLBI Network

2005/11/2 VERA ユーザーズミーティング

国立天文台VERA観測所

小林秀行

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East Asia VLBI Network

- East Asia VLBI consortium committee
は、EAMA6@Seoul on Oct. 2004.で組織化
 - Chair ; H.Kobayashi (Japan)
 - co-Chair; M.H.Choi (Korea) -> B.W.Sohn
 - Secretary ; Z.Q.Shen (China)
- EACOA (East Asia Core Observatory Association; NAOJ, NAOC, KASSI, ASIAA)
の下の組織として位置づけられる

Purpose of East Asia VLBI Cons.

- Organization of VLBI network observations at east-Asia region.
- Exchange information of new developments and organize them to avoid double efforts.
- Propose education chance for this area students. (ex. summer school, observation trainings)

East VLBI Network array configuration



Feature of East Asia VLBI array

- Dense station distribution
total effective aperture :
5,600 m² @8GHz
4,400 m² @22GHz
- Wide band observation
 - Wide band recording 1Gbps
 - Optical fiber link
- Phase referencing
 - VERA : 2 beam
 - KVN : multi-frequency

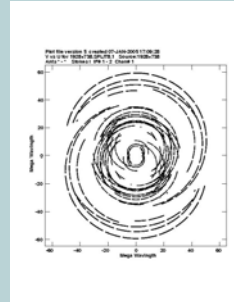
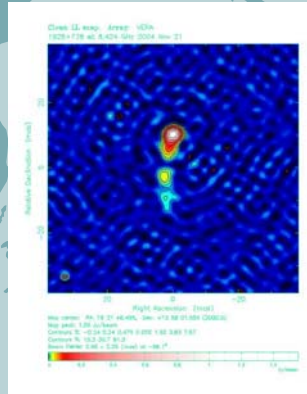
Current working VLBI stations

- Japan(11)
 - VERA(4), Kashima, Tsukuba, Yamaguchi, Nobeyama, Usuda, Tomakomai, Gifu
- Korea(1)
 - Taejun, (+KVN (3))
- China(2)
 - Shanghai, Urumqi, (+Beijin, Kumming, Delingha)

East Asia VLBI network result 1928+738 mapping demonstration



VLBA results



- Xband 8stations VERA, Usuda, Kashima, Yamaguchi, Gifu
- Map dynamic range: 1500

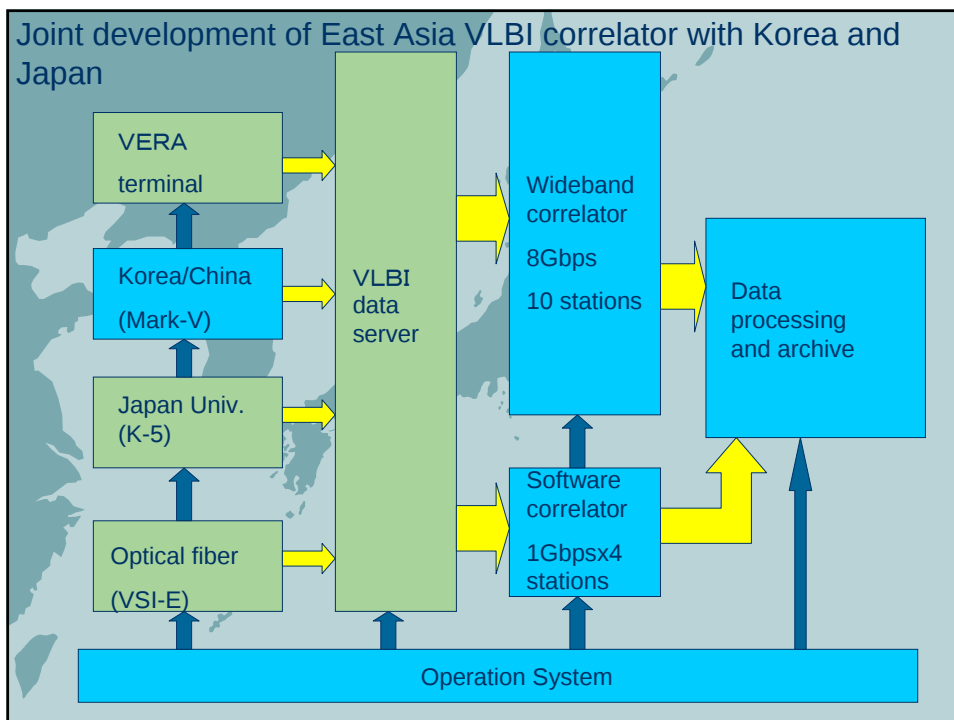
Demonstration Plan

- 2004 Dec. – 2006 Apr.
 - Test observations at 8GHz and 22GHz
 - Using DIR1000M(128Mbps)
 - Technical demonstration observations
 - Nov.14 , Nov. 21, Dec. 19, Jan. 23..... (8GHz)
 - TBD (22 GHz)
- 2006 Apr –
 - Scientific observations
- 2008-
 - VERA,KVN,etc with 1Gbps, phase referencing observations

MOU ceremony July 7th @NAOJ



Park(KASSI) 、 Kaifu(NAOJ)



EA VLBI Consortium meeting

- 11月12 日(土) 13:30 - 16:00
- 石垣島 大濱信泉記念館
- 内容
 - 各国のステータス報告
 - EA VLBI相関器の開発について
 - 今後の観測計画
 - ・ K4 配備に関する議論

日韓VLBIミーティング

- 11 月 10 日(木) 13:00 - 11 日(金) 17:00
- 石垣島 大濱信泉記念館
- 内容
 - VERA/KVNの進捗状況
 - 大学連携観測の進捗
 - 今後の研究協力の方針
 - ・ 日韓チームによる観測テーマの検討