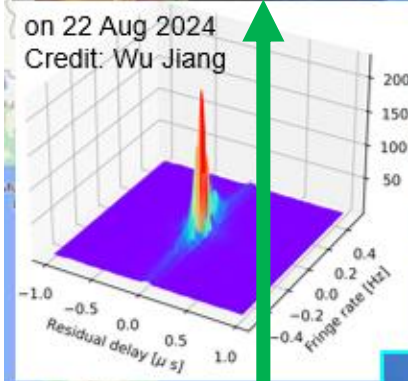


Effelsberg 100-m & 40-m TNRT

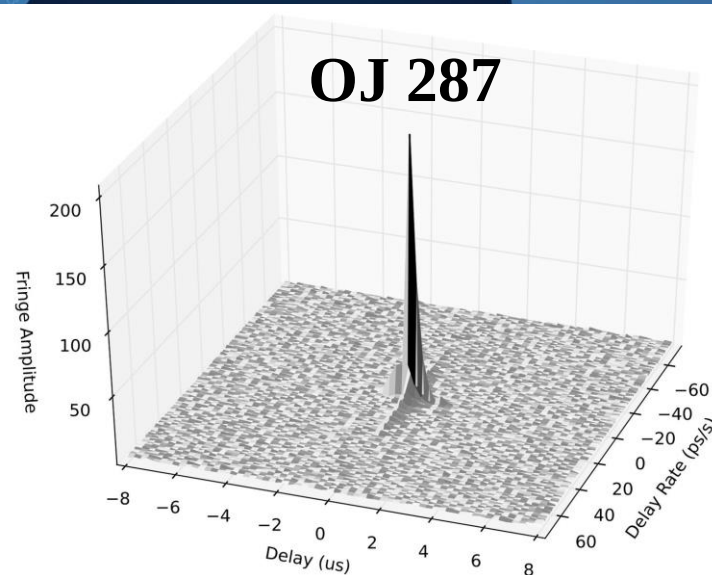
FAST, Tianma 65-m & 40-m TNRT



on 22 Aug 2024
Credit: Wu Jiang



ก้าวไปอีกขั้น! กล้อง
เชื่อมต่อกับกล้อง
สำเร็จเป็นครั้งแรก
NARIT.or.th



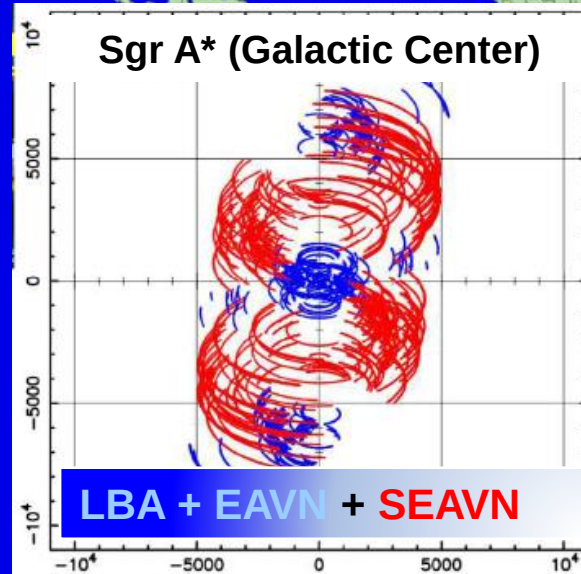
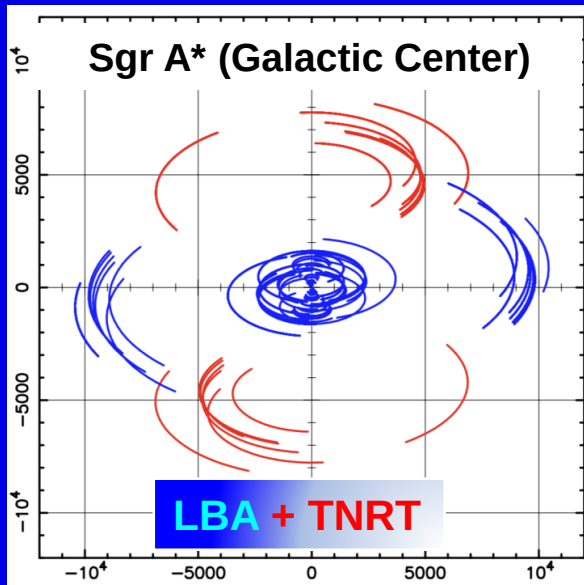
Fringe image credit:
Jan Wagner, et al.

Supported by a princess in Thailand, Sirindhorn

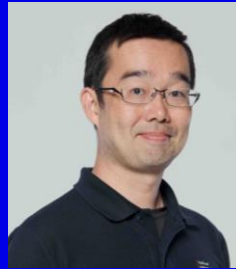
World-wide collaborations for VLBI science

- VLBA
- EAVN
- EVN
- LBA
- GMRT

K-band



South-East Asia VLBI Network



Acting manager
Dr. Koichiro Sugiyama
koichiro@narit.or.th



Image credit of background world-map:

Illust AC

Appendix

40-m Thai National Radio Telescope

as a part of NARIT (Thailand) Radio Astronomy project

© The 1st TNRT Call for Proposals (2023/Oct/10 at 10 am)

L-band receiver at the prime focus

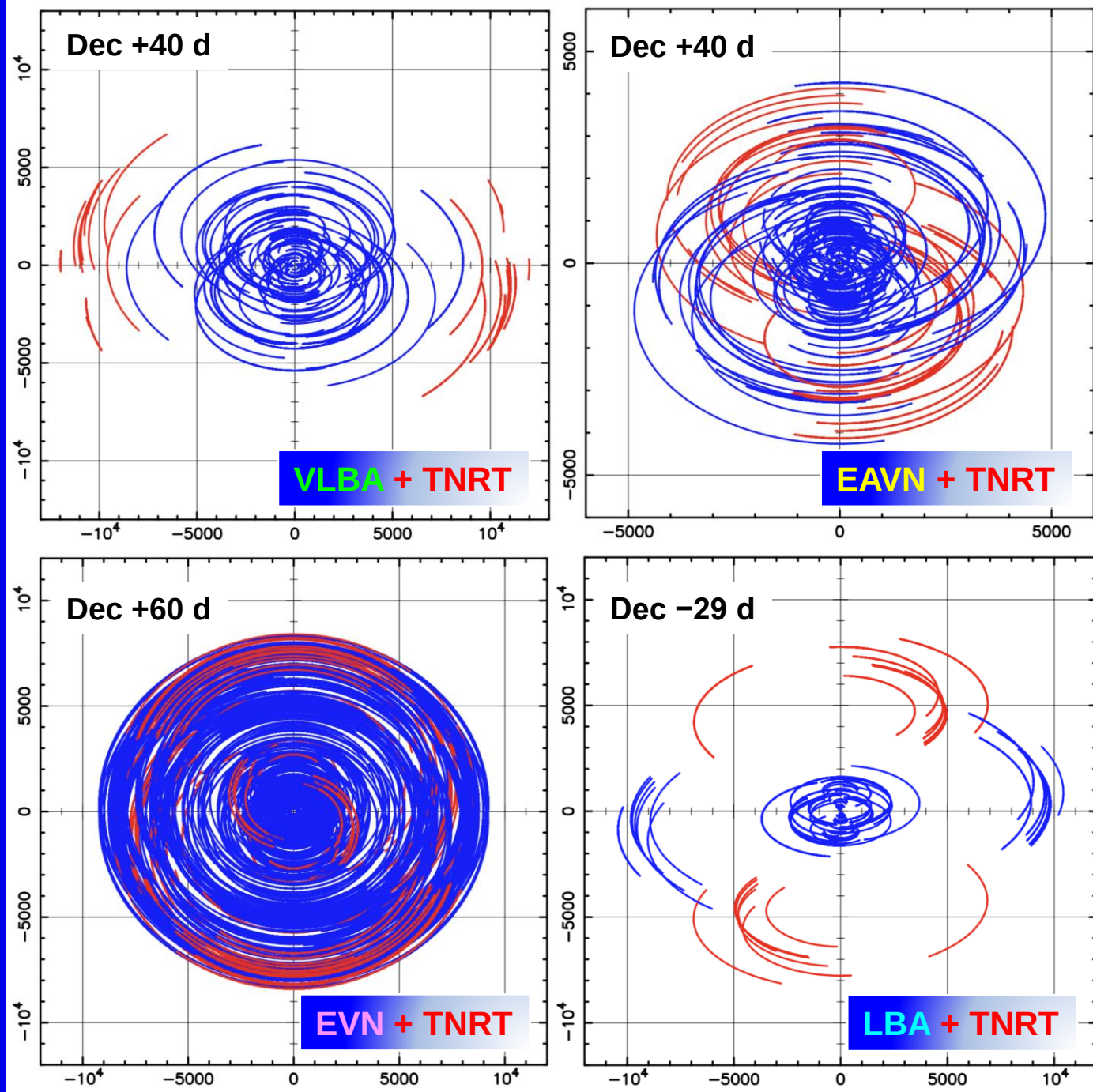


[Sugiyama et al. 2024a](#)

Diameter	40 m	
Focal position & focal (f/D) ratio	Primary: 0.375	
Optics	Primary / Nasmyth	
Mount	Alt-Az	
Driving range	Az	El
	[−90, +450] deg	[+3.5, +90] deg
Slewing speed	Az	El
	180 deg/min	60 deg/min
(latitude, longitude)	(18d51'52" N, 99d13'01" E) at 403 m above mean sea level	
(X, Y, Z) coordinates	(−967131.24, +5960079.92, +2049286.67) m	
Installed receiver	Primary focus	Nasmyth focus
	(L, Ku) band	K-band
Frequency coverage & Polarization	- L-band (1.0 - 1.8 GHz, linear polarization) - Ku-band for holography (10.70 - 12.75 GHz) - K-band <u>under commissioning</u> (18.0 - 26.5 GHz, circular polarization)	
Future installation receiver	(P, C/X/Ku, Q/W) band	
Total frequency coverage	0.3 - 115 (GHz)	

ons for VLBI

- VLBA
- EAVN
- EVN
- LBA
- GMRT



in K-band

Image credit of background world-map:

Illust AC

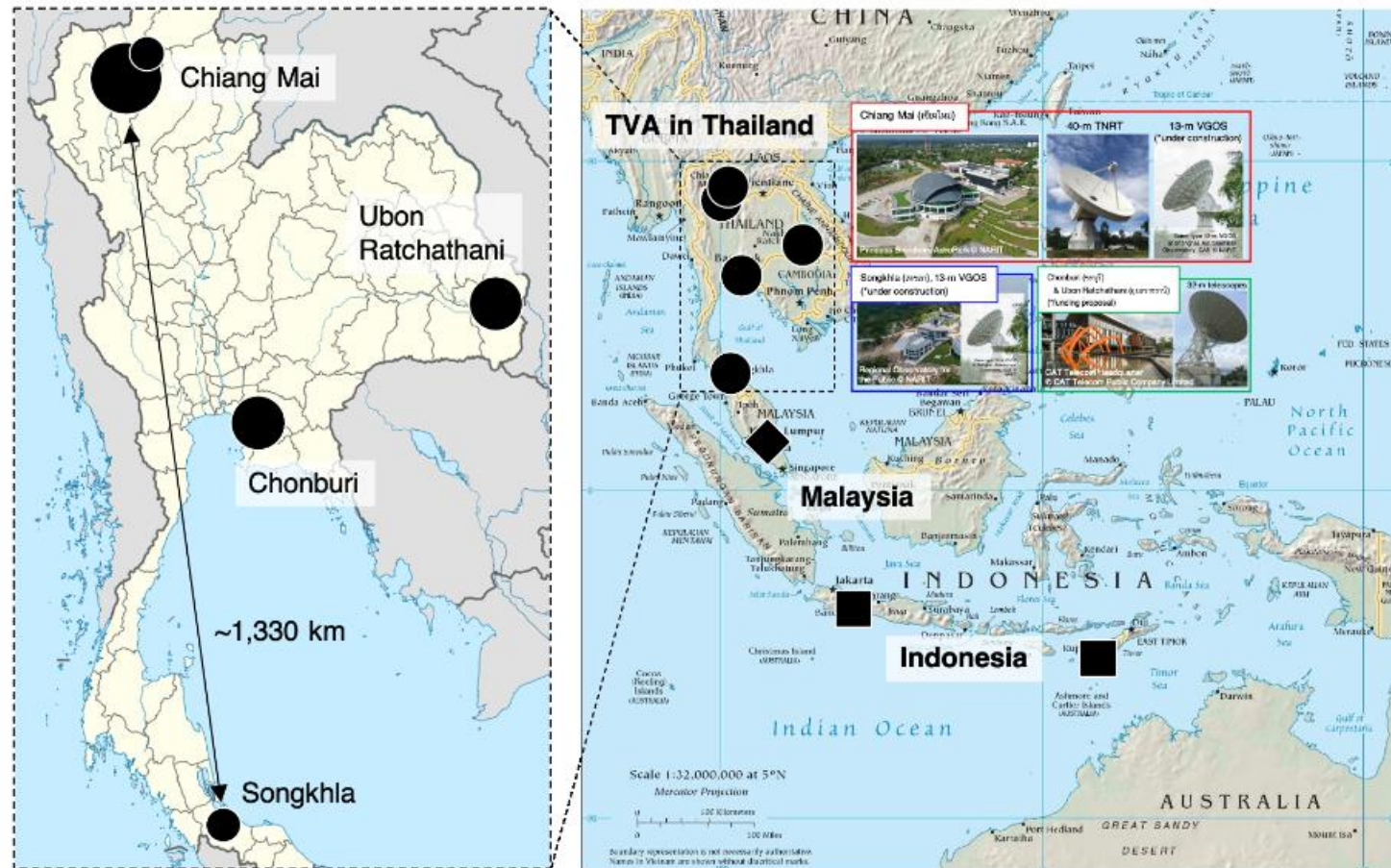


Figure 4. Forthcoming regional VLBI networks: (Left) TVA. Each radio telescope is shown by circles with the size proportional to its diameters. (Right) SEAVN. Radio telescopes (including forthcoming) are shown by circle, diamond, and square symbols with its fixed sizes for in Thailand, Malaysia, and Indonesia, respectively. Image credit of backgrounds: Left - NordNordWest in Wikipedia; Right - Monedula, CIA World Factbook, Wikimedia.