

**16th MEETING OF THE PROVIDERS' FORUM**

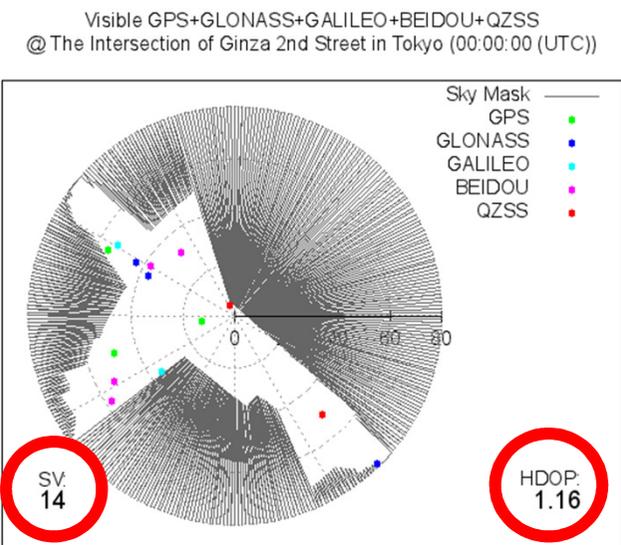
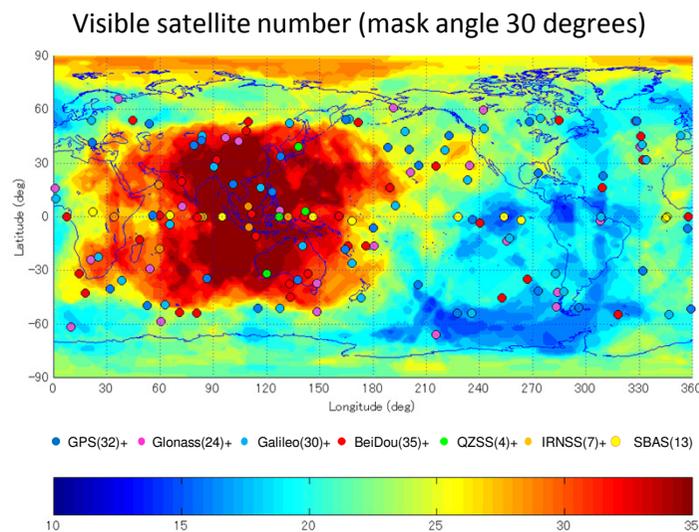
# **Report on a multi-GNSS demonstration project in the Asia/Oceania region**

June 6, 2016  
MGA Secretariat  
Satoshi Kogure



# Multi-GNSS Asia (MGA)

- MGA was established to promote multi-GNSS demonstration campaign under UN-ICG in 2011.
  - To show harmonized and interoperable GNSS benefit to users
  - Asia and Oceania region is a hotspot of multi-GNSS
  - The campaign was proposed to ICG-4@St. Petersburg in 2009.
- 7 annual workshop were held, and 24 experiments were conducted or on going.



# Asia Oceania Multi-GNSS Demonstration Campaign



## Monitoring Network Establishment



## Application Demonstration Disaster Mitigation



## Precise Positioning



## ITS



## LBS



Other, ionospheric  
observation etc

## Regional Workshop

7<sup>th</sup> MGA Conference,  
Dec. 2015 @ Brunei  
Darussalam



6<sup>th</sup> Workshop, Oct. 2014  
@ Phuket, Thailand



5<sup>th</sup> Workshop, Dec. 2013  
@ Hanoi, Vietnam



4<sup>th</sup> Workshop, Dec. 2012  
@ Kuala Lumpur,  
Malaysia



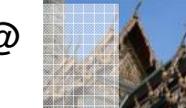
3<sup>rd</sup> Workshop, Nov. 2011 @  
Jeju, Korea:



2<sup>nd</sup> Workshop, Nov. 2010 @  
Melbourne, Australia

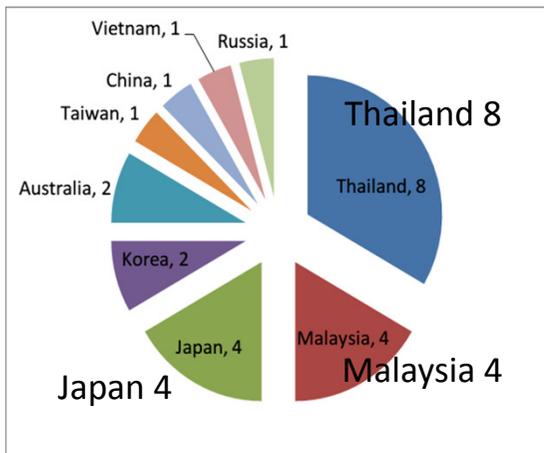
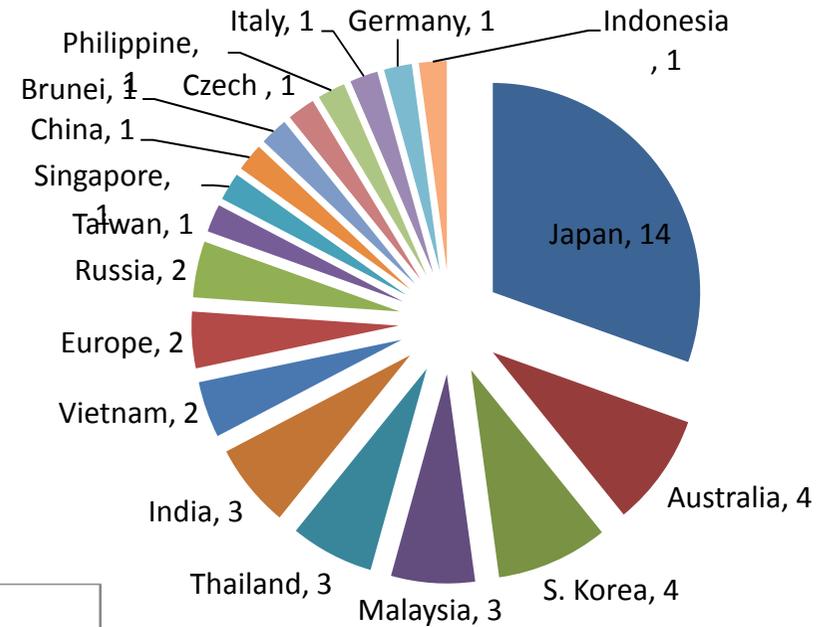
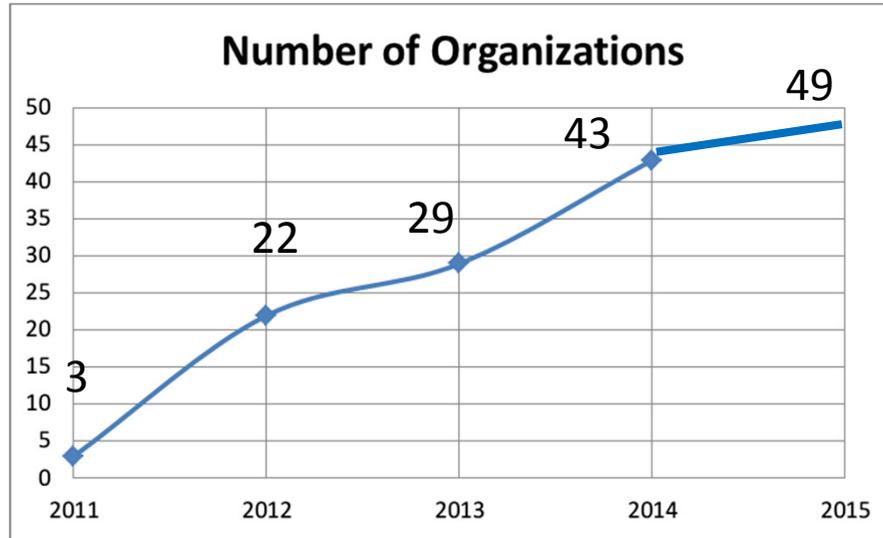


1<sup>st</sup> Workshop, JAN. 2010, @  
Bangkok, Thailand

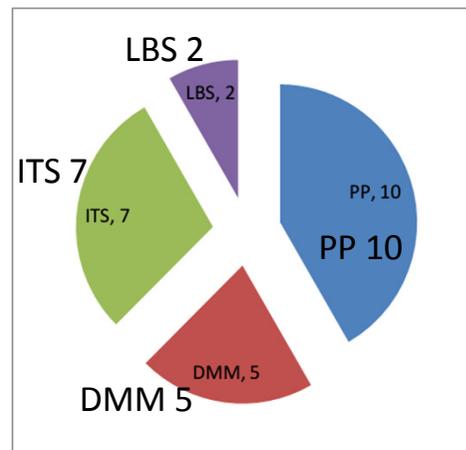




# Past 5 years Activities



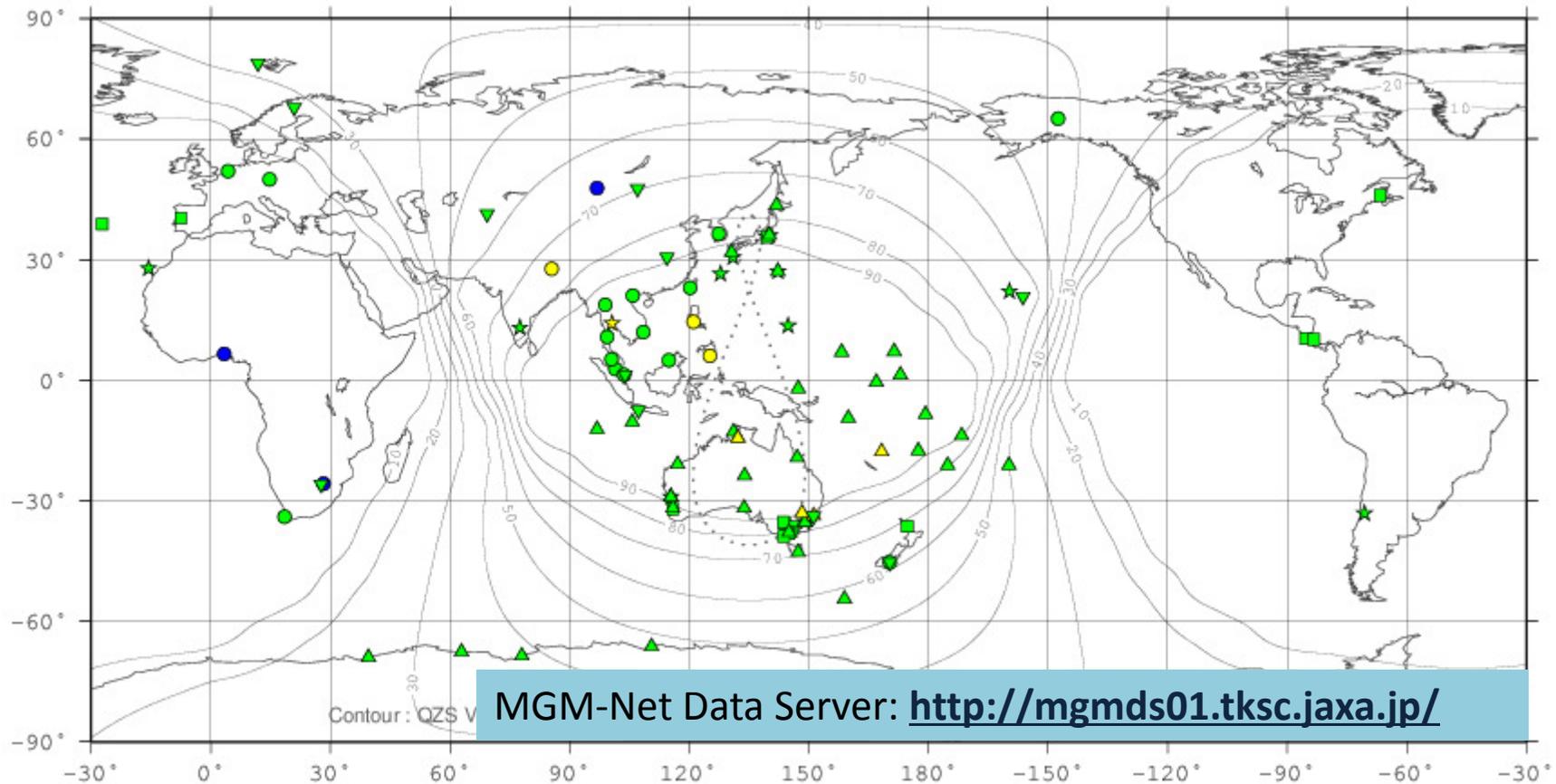
Proposal Countries



Proposal Themes

Totally 24 proposals were endorsed by MGA and were conducted or now under going.

PP: Precise Positioning  
 DMM: Disaster Mitigation / Management  
 ITS: Intelligent Transportation System  
 LBS: Location Based Services



- More than 80 sites provide multi-constellation's tracking data under collaboration with organizations such as geodetic research institutes and space agencies

# The 7th Multi-GNSS Asia (MGA) Conference



- MGA conference was held on December 7-9th, 2015 at The Rizqun International Hotel, Bandar Seri Begawan, Brunei Darussalam.
- Jointly organized by BELS, GNSS.asia, JAXA, QZS System Services Inc., Satellite Positioning research and Application Center (SPAC) and Soartech Systems Sdn Bhd.
- Supported by United Nations International Committee on GNSS (UN ICG), International Global Navigation Satellite Systems Service (IGS), Ministry of Primary Resources and Tourism (MPRT), and Survey Department of Ministry of Development in Brunei Darussalam.



# The 7th Multi-GNSS Asia (MGA) Conference



- Great honor to welcome his excellency Mr. Yang Mulia Dato Paduka Awang Haji Suhaimi bin Haji Gafar, Deputy Minister of Development of Brunei Darussalam.
- about 190 participants from many organizations including universities, related research institutes, government agencies, International organizations and companies gathered from 17 countries.





# 8th Multi-GNSS Asia (MGA) Conference

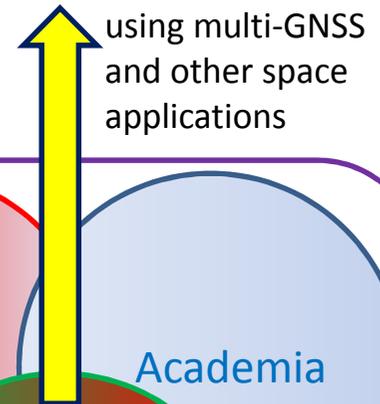


14<sup>th</sup> to 16<sup>th</sup> November, 2016 @Metro Manila, Philippines



- Industry-Academia-Governmental Cooperation.
- Discuss the solution for the disaster mitigation such as volcanos, typhoons, and floods.
- BtoB matching .

*Providing the Solutions for the Disaster Mitigation*



**Disaster Mitigation**

**Precise Positioning**

**ITS**

**LBS**



Government / Space Agencies



Visit MGA website: [www.multignss.asia](http://www.multignss.asia)