

QZSS Update

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Information in these slides are based on the presentation from UN/Nepal GNSS Workshop held in Kathmandu from 12-16 DEC 2016
<http://www.unoosa.org/oosa/en/ourwork/psa/schedule/2016/2016-nepal-workshop-on-gnss.html>

System Overview

Functional Capability:

GPS Complementary

GNSS Augmentation

Messaging Service

Coverage: Asia and Pacific region

Signals (QZS-1):

L1C/A, L1C, L2C and L5

L1S (L1-SAIF) on 1575.42 MHz

L6 (LEX) on 1278.75MHz

L1Sb will be added as SBAS from 2020's

(Today) 1st QZSS satellite "MICHIKI"

Four satellites constellation will be established and the service will start in 2018.



QZSS Overview

Japan Region

- Over 20 degrees elevation
More than 2-QZS are available
- Over 60 degrees elevation
1 QZS is available

Functional Capability:

GPS Complementary
GNSS Augmentation
Messaging Service

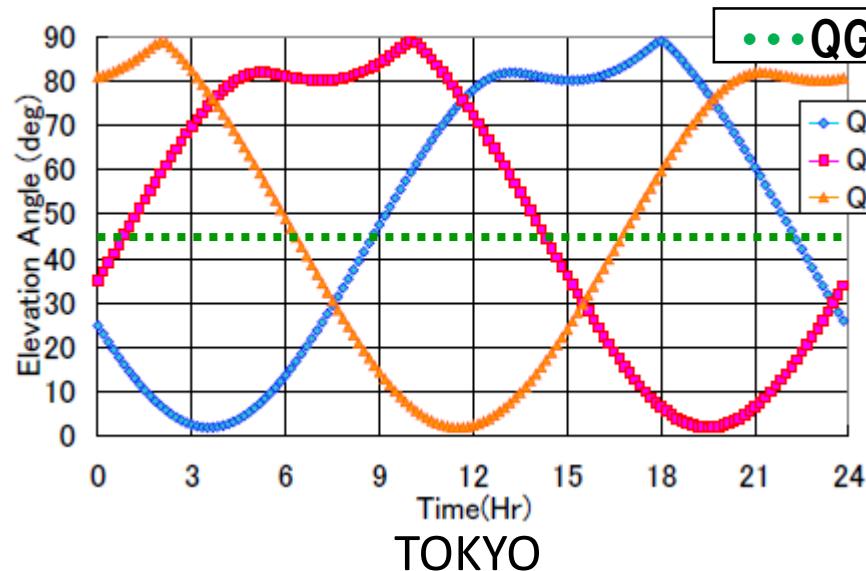
Coverage: Asia and Pacific region

1 Geostationary satellite

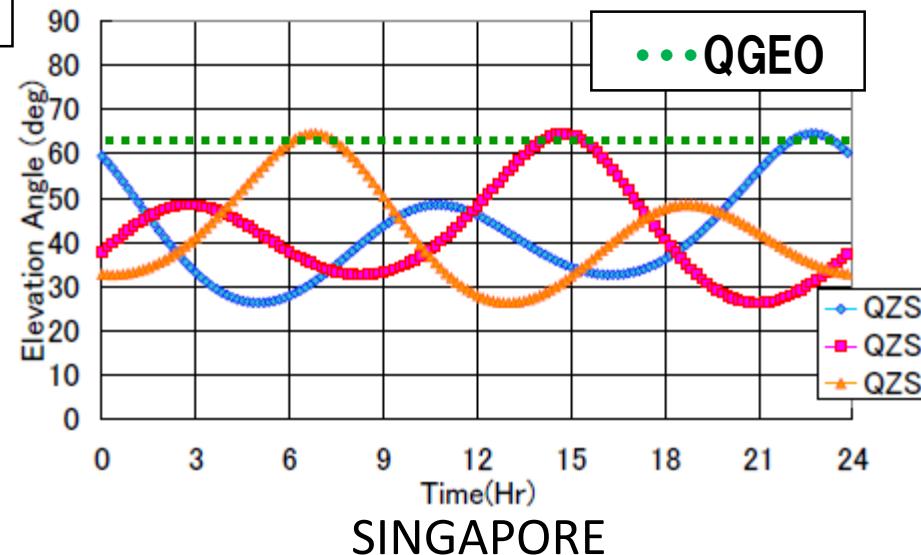


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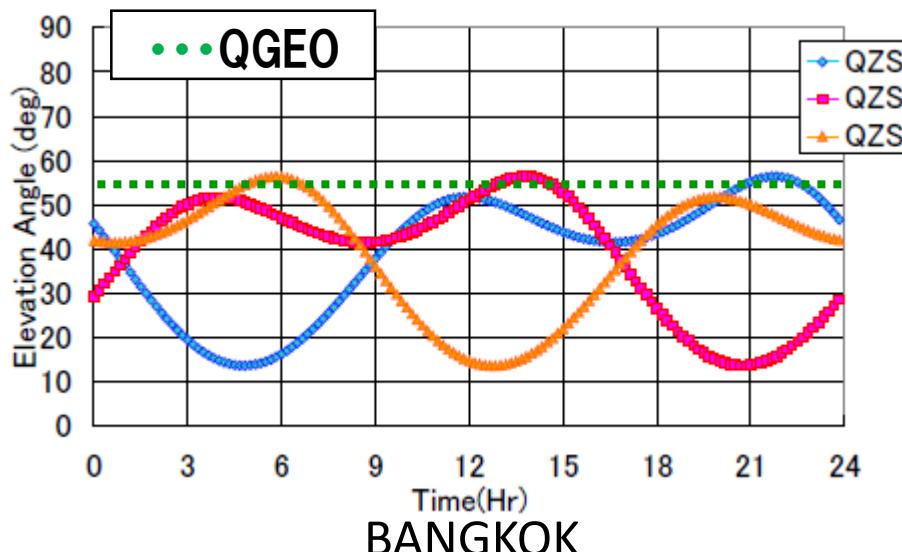
QZSS Visibility Time



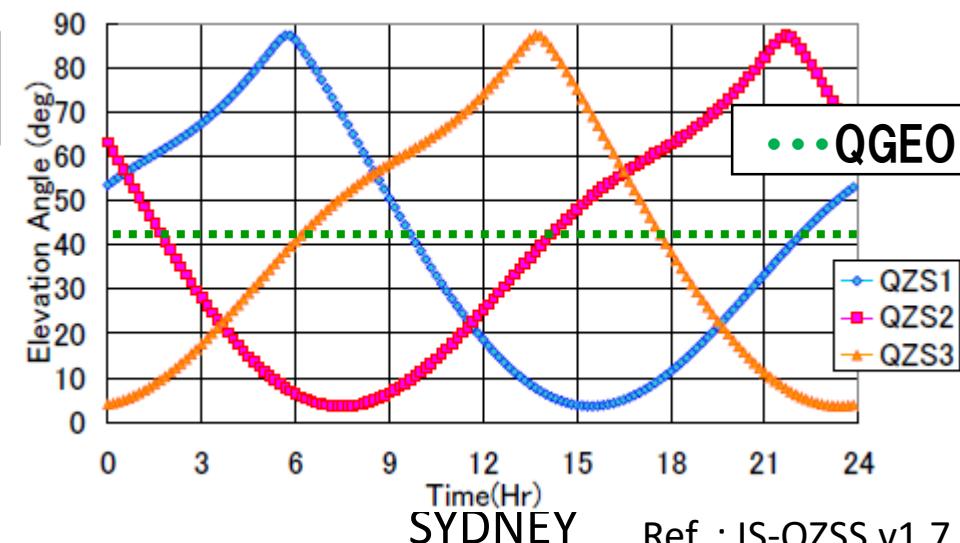
TOKYO



SINGAPORE



BANGKOK



SYDNEY

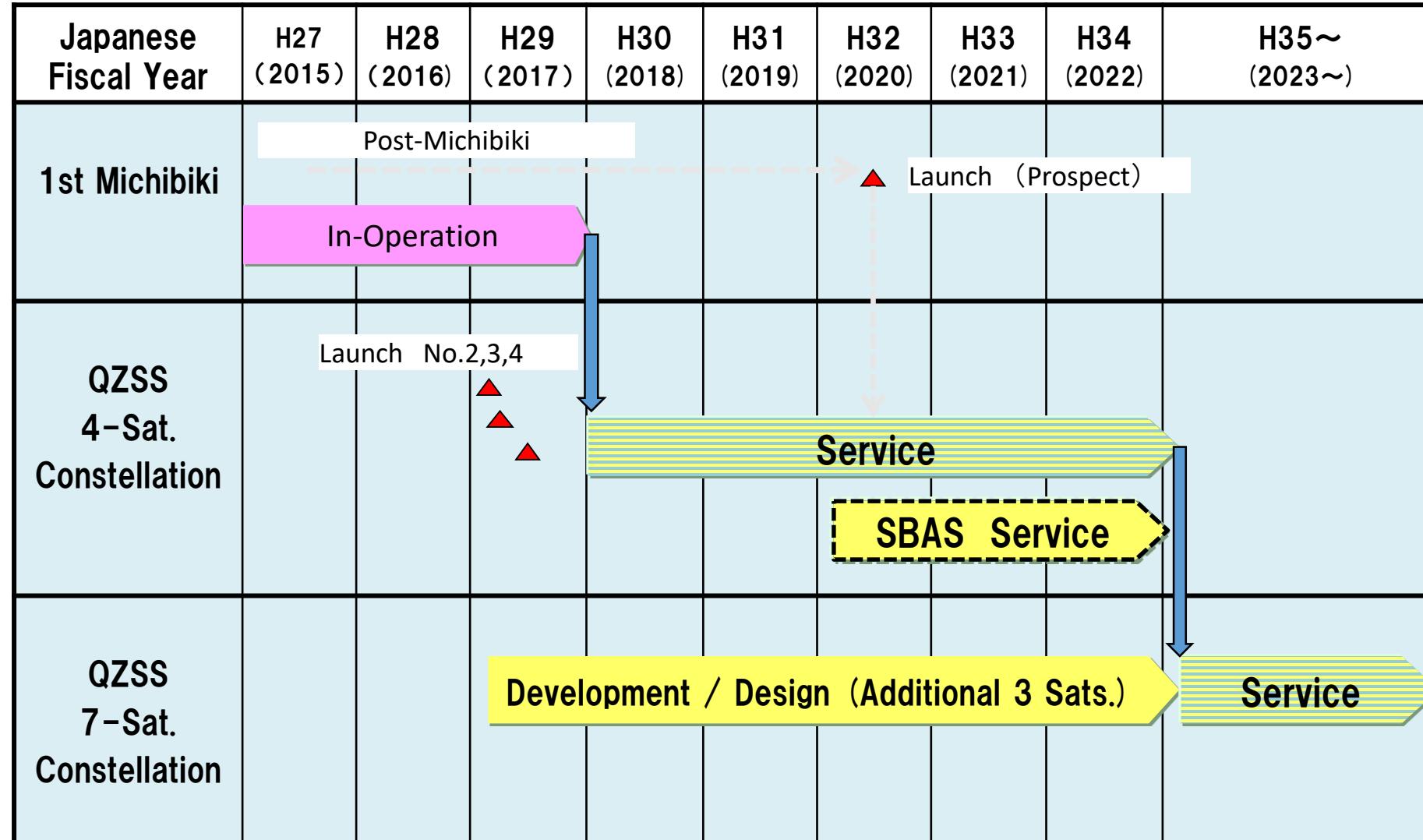
Ref. : IS-QZSS v1.7, JAXA, 7 Jul. 2016

Positioning Signals of QZSS

Positioning Signal of QZSS						
				1 st Satellite	2 nd -4 th Satellite	
		Positioning	complement GPS	QZO	QZO	GEO
L1C/A	1575.42 MHz	Positioning	complement GPS	○	○	○
		Positioning	complement GPS	○	○	○
		Augmentation (SLAS)		○	○	○
		Message Service		○	○	○
L2C	1227.60 MHz	Positioning	complement GPS	○	○	○
L5	1176.45 MHz	Positioning	complement GPS	○	○	○
L5S		Augmentation Experimental Use		—	○	○
L6	1278.75 MHz	Augmentation (CLAS)		○	○	○
L1Sb	1575.42	Augmentation	SBAS	—	—	○

SBAS Service will be available from the beginning of 2020's.

QZSS Program Schedule



SBAS Service will be available from 2020's under Ministry of Land, Infrastructure, Transport and Tourism jurisdiction.