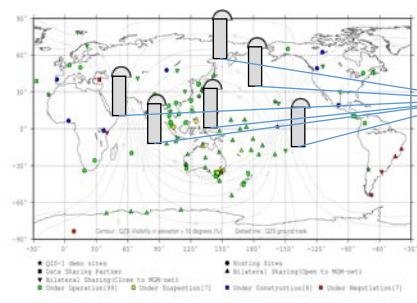
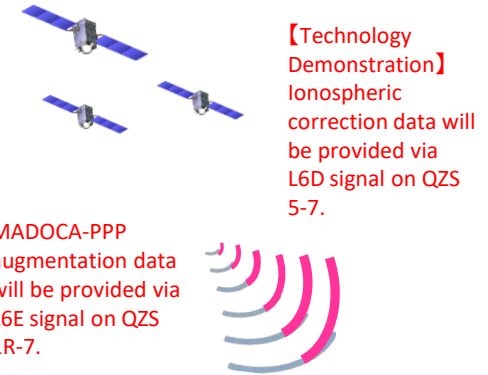
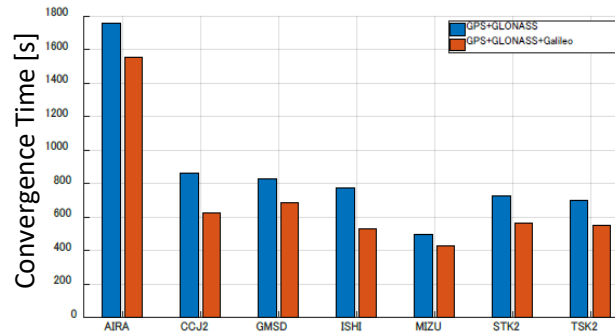


Multi-GNSS ADvanced Orbit and Clock Augmentation – Precise Point Positioning (MADOCA-PPP)

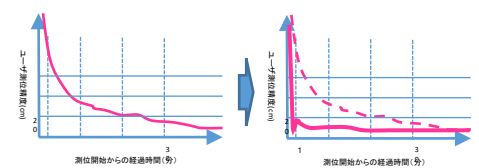
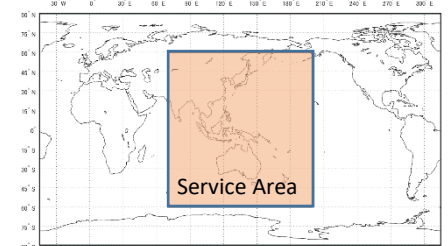
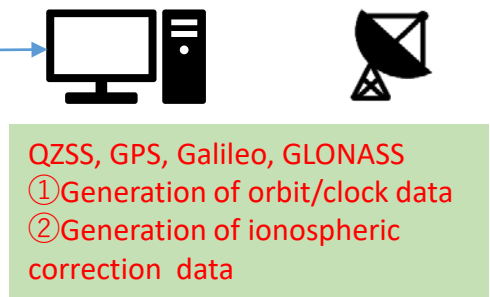
- Multi-GNSS ADvanced Orbit and Clock Augmentation – Precise Point Positioning (MADOCA-PPP) provides correction data for Precise Point Positioning (PPP) users via L6(MADOCA-PPP) signals. For applying PPP method and/or PPP-Ambiguity Resolution (AR) method, the globally applicable error corrections on satellite orbit, clock offset and code/phase biases are transmitted via L6E signal.
- In addition, from FY2024, as a part of the MADOCA-PPP technology demonstration, wide-area ionospheric correction data will be provided for the Asia-Oceania region. The technology demonstration (ionospheric correction data) messages will be transmitted via L6D signal.

Service Specifications	
Product	Orbit, Clock, Code/Phase biases
Convergence Time	<p>< 1800 s (< 600s with ionospheric correction data)</p> <p><u>Criteria</u></p> <ul style="list-style-type: none"> •Horizontal Accuracy < 30 cm (95%) •Vertical Accuracy <50 cm (95%)

【Example of preliminary performance analysis】
(w/o ionospheric correction data)



Multi-GNSS Integrated Real time and Archived Information system



【Technology Demonstration】
Fast PPP convergence time can be achieved with QZSS wide area ionospheric correction.