

REGIONAL PREPARATORY GROUP (RPG) MEETING
FOR WRC-2023 (Cairo, Egypt, 28-29 August 2023)

Current Status of Radio Altimeter and 5G in Japan

Agenda Item 4 - Radio Altimeter and 5G issues

Presented by:
Katsuyuki ARAKAWA

1. 5G services deployment situation in Japan
2. Law and Regulations of 5G in Japan

5G services deployment situation in Japan

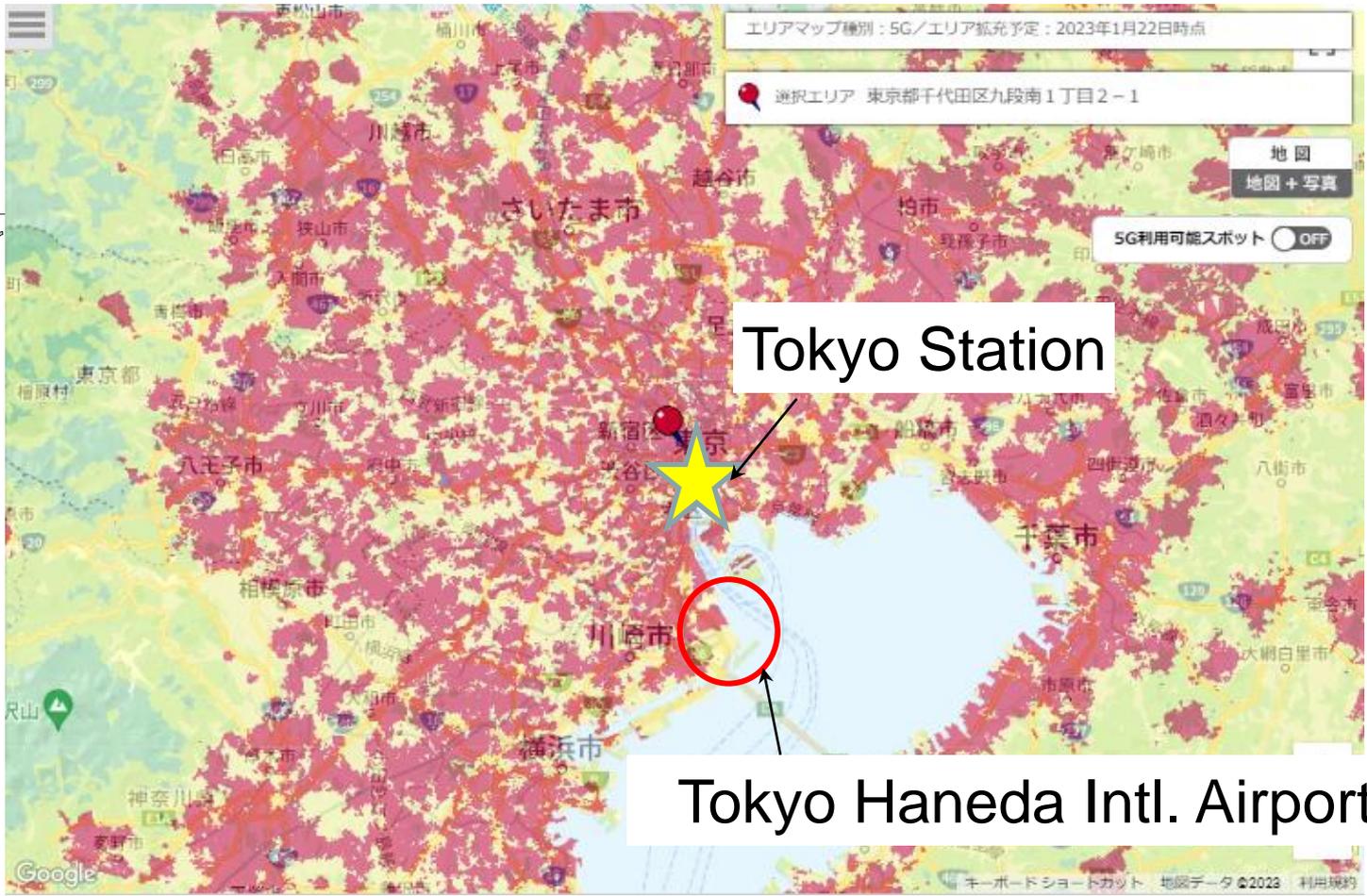
Ministry of Land, Infrastructure, Transport and Tourism

Service area of 5G in the metropolitan area of Japan.

■ 5G (C-band) service area (Jan 2023)



Metropolitan area



Tokyo Station

Tokyo Haneda Intl. Airport

80 km

https://www.nttdocomo.co.jp/area/servicearea/?rgcd=03&cmcd=5G&scale=2048000&lat=35.690767&lot=139.756853&icid=CRP_IPH_area-5g_to_CRP_AREA_servicearea

5G services deployment situation in Japan

Ministry of Land, Infrastructure, Transport and Tourism

Service area of 5G in and around Haneda Airport.

■ 5G (C-band) service area (Jan 2023)

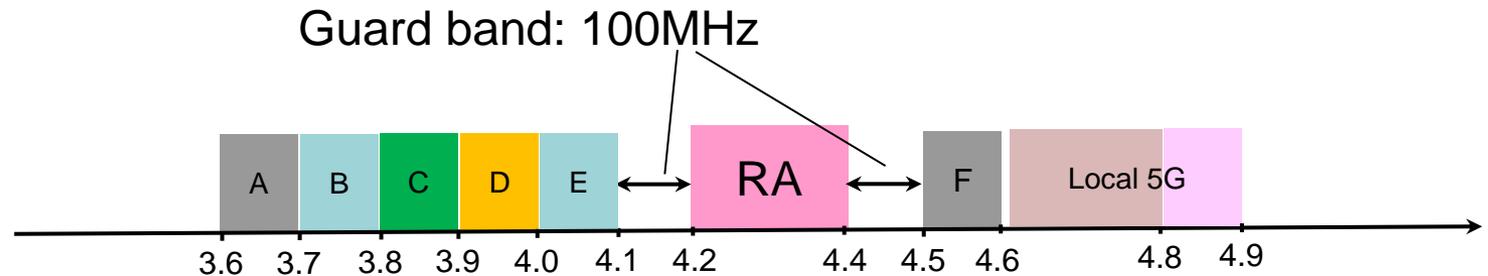


https://www.docomo.ne.jp/area/servicearea/?rgcd=03&cmcd=5G&scale=2048000&lat=35.690767&lot=139.756853&icid=CRP_IPH_area-5g_to_CRP_AREA_servicearea

- 5G service in Japan has been deployed since 2020.
- Before that, the special committee held by MIC* developed recommendations on 5G regulations.
 - * MIC (Ministry of Internal Affairs and Communications) is the radio regulatory authority in Japan.
- 5G regulations include:
 1. Guard bands
 2. Limits on undesired emission
 3. Protection areas
- Law and Regulations of 5G are also compliant with ITU Radio Regulation.
- There have been no reports of harmful interference to the radio altimeters from 5G in Japan.

1. Guard bands

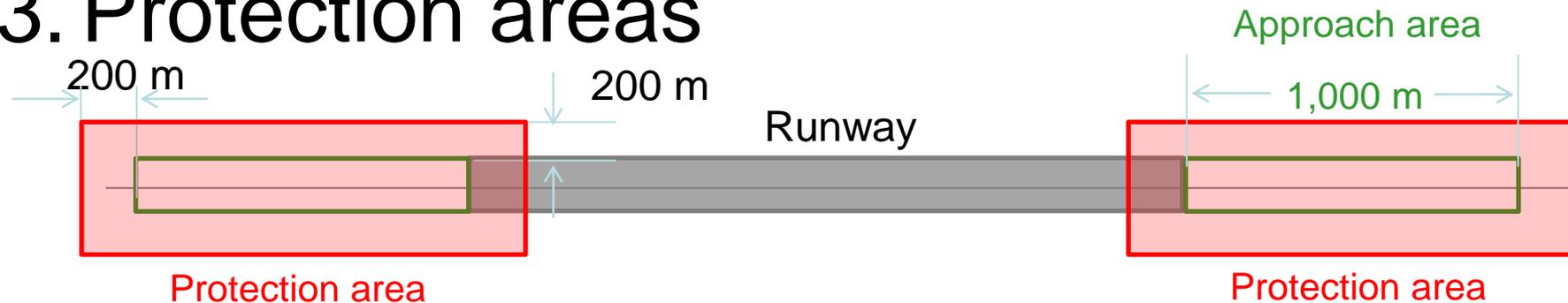
- 5G mobile base stations operate in the frequency band 3.6 GHz-4.1 GHz, and 4.5 GHz-4.6 GHz.



2. Limits on undesired emission.

- 5G base stations are required to suppress their undesired emission within RA band less than -39 dBm/MHz.

3. Protection areas



Thank you