



Ministry of Land, Infrastructure, Transport and Tourism  
**Civil Aviation Bureau of Japan**



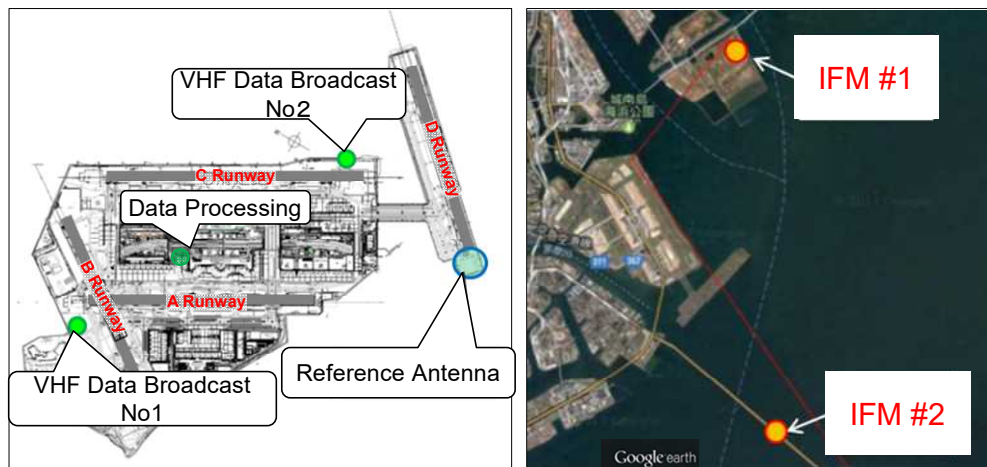
# GBAS Status

ICAO APAC GBAS/SBAS ITF3  
September 2021

**JCAB, MLIT**

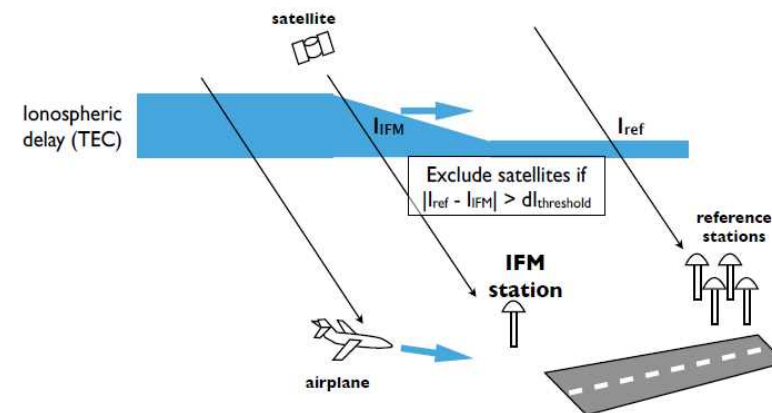
- ✕ JCAB decided CAT- I GBAS implementation at Tokyo international airport (Haneda:HND).
- ✕ Haneda GBAS ground system had been installed from 2016FY to 2019FY.
- ✕ Haneda GLS flight procedure were set and these charts were published by AIP SUP.
- ✕ **Operational trial at HND started in July 2020.**

## Haneda GBAS installation

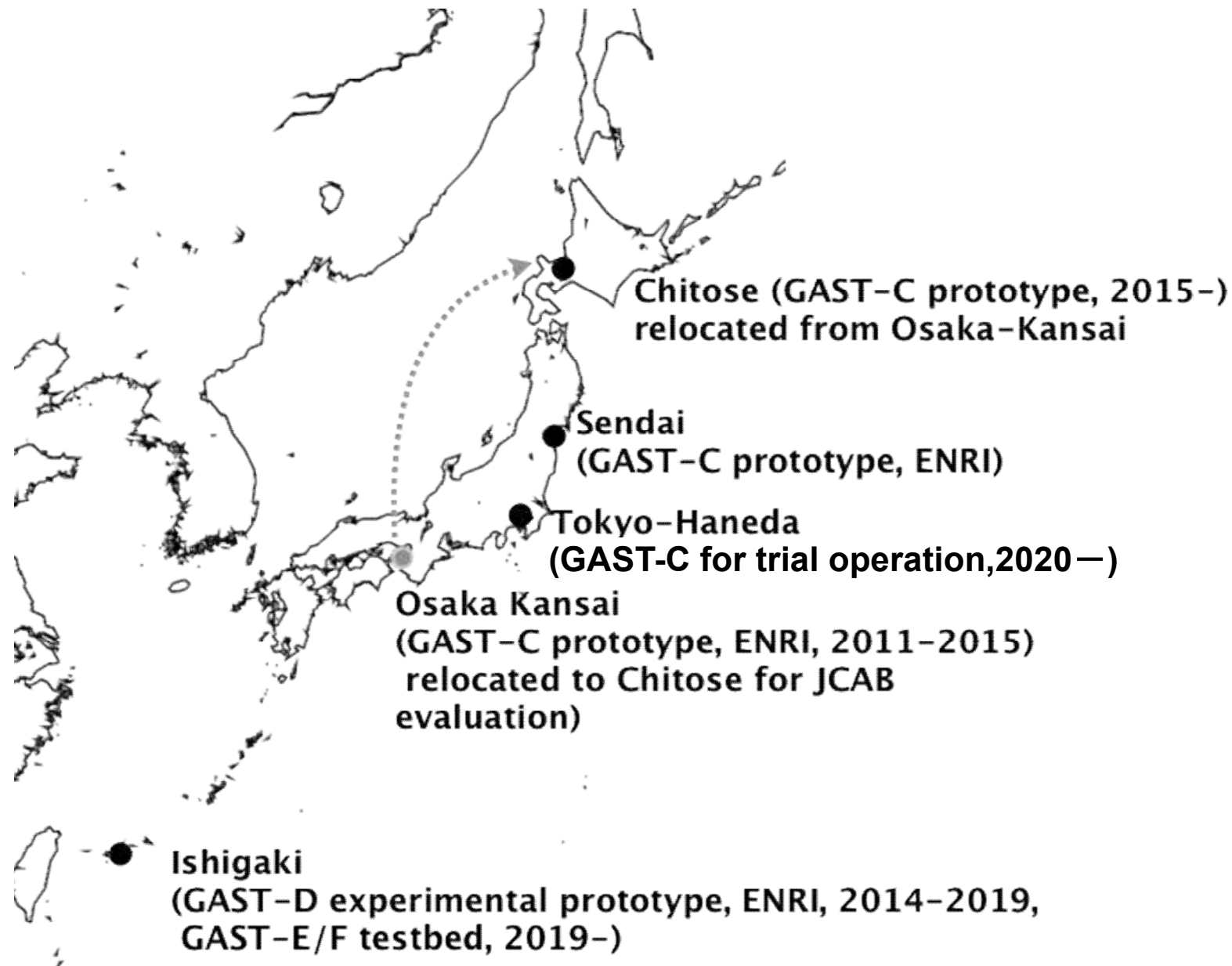


## Haneda GBAS component features

IFM(Ionosphere Field Monitor) mitigates position errors induced by ionosphere anomaly(the world's first).



- \* Additional receivers to limit the maximum potential error associated with ionospheric gradients



Thank you for your attention !

