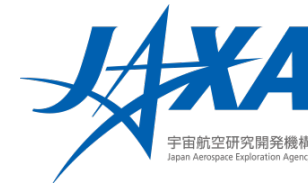


14p.02

JMA and JAXA



**Kozo Okamoto¹,
Kotaro Bessho¹, Misako Kachi²**



1: JMA (Japan Meteorological Agency)

2: JAXA (Japan Aerospace Exploration Agency)

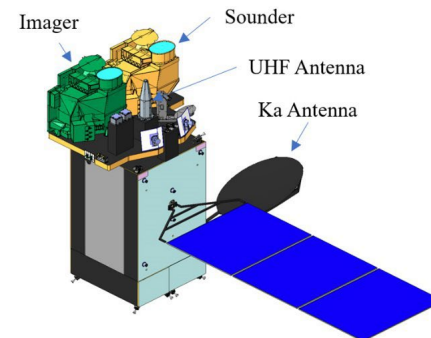


■ Himawari-8/9

- Switchover operational satellite from Himawari-8 to **Himawari-9** on 13 Dec. 2022
- **AHI** (Advanced Himawari Imager) on Himawari-8/9 performs very well
- HimawariRequest: Target area obs (1,000km², every 2.5 min) on request from NHMs
- User support: <https://www.data.jma.go.jp/mscweb/en/support/support.html>

■ Himawari-10

- Plan to launch in JFY2028, start operation in JFY2029
 - JFY2022: RFI, RFP and Start of manufacturing
 - Design lifetime: 15 years (10-y in-orbit operation & 5-y in-orbit storage)
- **Imager** : bands and resolutions superior to Himawari-8/9 AHI
- **Hyperspectral IR sounder**
 - built by L3 Harris Technologies
- <https://www.mitsubishielectric.com/sites/news/2023/pdf/0314.pdf>



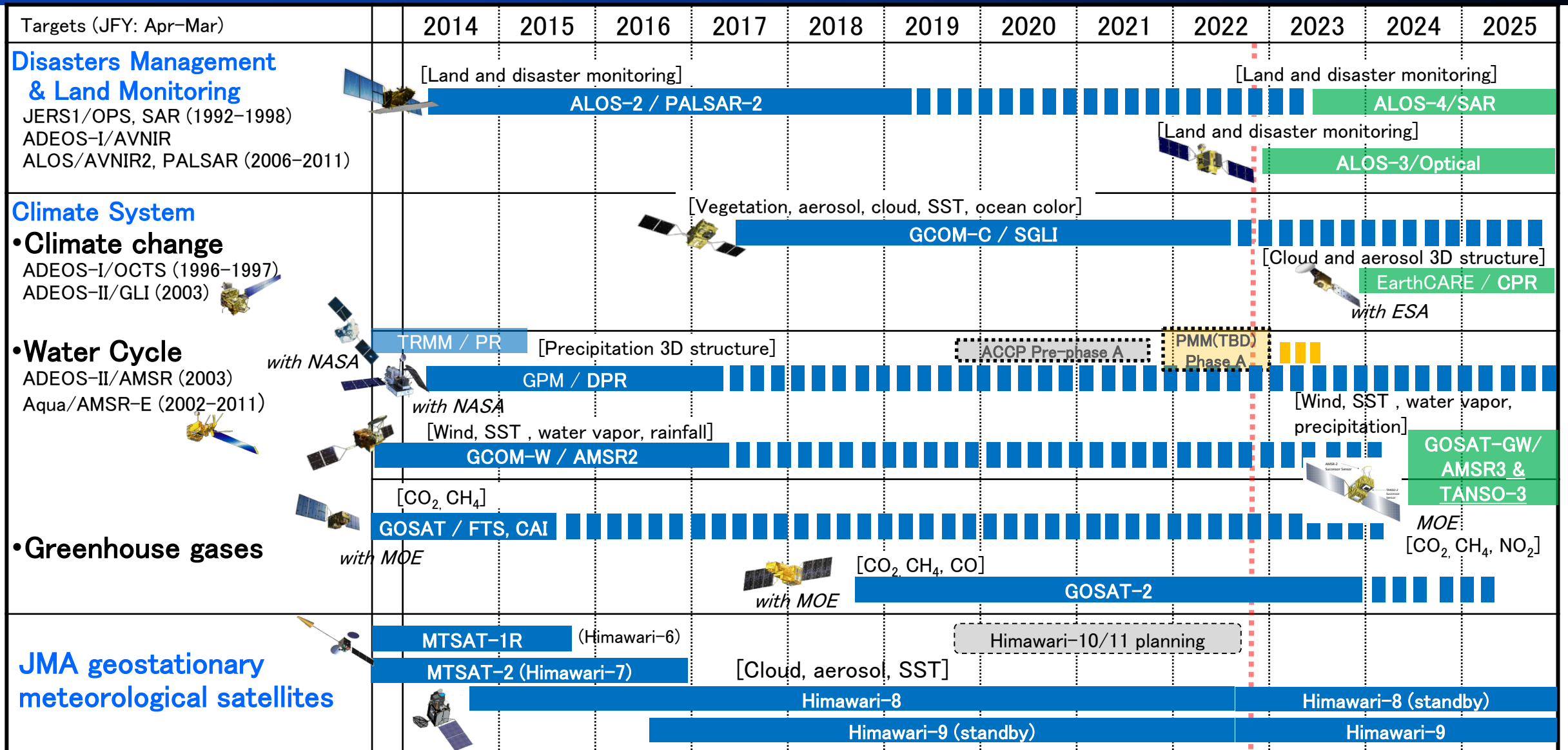
■ Current operation

- **GPM-Core/DPR** (NASA-JAXA): Dual-frequency Precipitation Radar (KuPR + KaPR), Feb 2014~
- **GOSAT/TANSO, GOSAT-2/TANSO-2** : FTS for GHG (CO₂ & CH₄), Jan 2009~, Oct. 2018~
- **GCOM-W/AMSR2** : Microwave imager, May 2012~
- **GCOM-C/SGLI**: Multi-ch optical imager for monitoring radiation budget and carbon cycle, Dec.2017~
- **ALOS-2/PALSAR-2** : L-band SAR for monitoring environment, disaster and resource, May 2014~

■ Plans

- **ALOS-3** : Advanced optical imager, follow-on of ALOS/AVNIR2 (launch failure in Mar 2023)
- **ALOS-4** : Advanced L-band SAR, follow-on of ALOS-2/PALSAR-2 (JFY 2023)
- **EarthCARE/CPR** (ESA-JAXA) : Doppler cloud radar (JFY 2023)
- **GOSAT-GW** (JFY 2024)
 - **AMSR3**: AMSR2 follow-on with additional high freq (166,183) ch and 10 GHz ch
 - **TANSO-3**: Grating imaging spectrometer, smaller footprint and wider swath, 3 band for CO₂, CH₄ and NO₂
- **PMM/KuDPR**: Doppler precipitation radar with higher sensitivity & scanning capability, NASA's AOS program (JFY2028)

Earth Observation Satellite/Sensors of JAXA & JMA



Mission status  Completed  On orbit  Development  Pre-phase-A  Phase-A