

KMA space agency report (1/2)

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GeoKOMPSAT-2A and 2B



Specifications

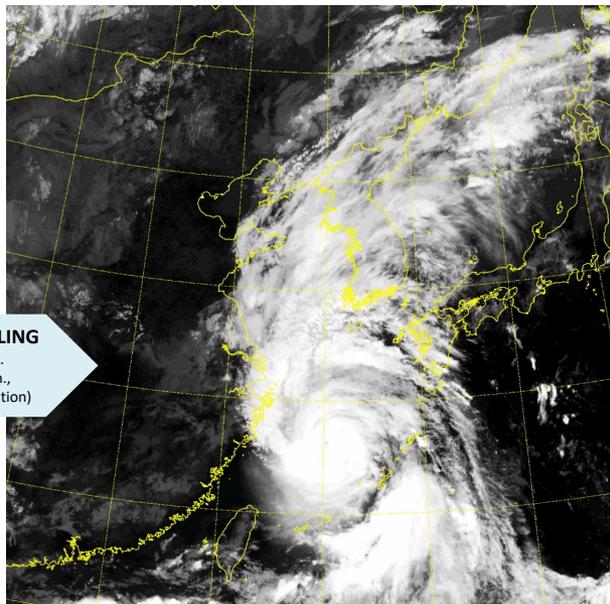
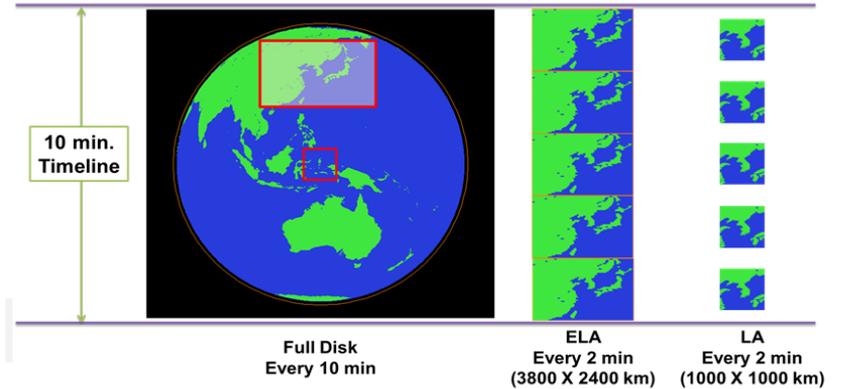
	GK-2A	GK-2B	
Payload	AMI	GOCI-2	GEMS
Lifetime	10 years		
Location	36,000 km over equator at 128.2° E		
Channels	16	13	1000
Wavelength range	0.4 – 13.3 μm	375 - 860 nm	300-500 nm
Spatial resolution	0.5 & 1 km (Vis) 2 km (IR)	250 m@ eq 1 km (FD)	7 x 8 km ² @ Seoul 3.5x8 km ² (aerosol)
Temporal resolution	10 min (FD)	1 hour	1 hour

AMI: Advanced Meteorological Imager
 KSEM: Korean Space wEather Monitor
 GOCI-2: Geostationary Ocean Color Imager-2
 GEMS: Geostationary Environmental Monitoring Sensor

GK2A 10-min timeline and 2-min rapid scan Obs.

KMA operates 10-min timeline with 3 different observation areas

- FD : Full Disk
- ELA : Extended Local Area centered Korean Peninsular
- LA : Target Area which can observe any area by user request



Typhoon LINGLING
 2019.9.6. ~9.7.
 (IR, every 2 min.,
 2km special resolution)

Data Service Plan : Geo-KOMPSAT-2A

The L1B data is releasing via internet as well as broadcast since 25 July 2019.

Via GK2A broadcast (< 3 minutes data latency)

- Broadcast all 16 channels data (UHRIT, full resolution) of meteorological observations
- Maintain HRIT broadcast corresponding to COMS five channels
- LRIT broadcast will be replaced by meteorological service for ship-board small antenna

Via Landline

- To disseminate L1B data via real-time cloud service similar to HimawariCloud (< 5 min data latency)
- Currently 9 countries are registered (India, Japan, Bangladeshi, Malaysia, Singapore, Nepal, Vietnam, Australia, and Hong Kong)
- GK2A data is also available in DCPC-NMSC (<http://dcpc.nmsc.kma.go.kr>)

L1/L2 Data Format

- netCDF4(for each channels), with GSICS information / netCDF4(for each products)

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KMA GEO satellite status and plan

- COMS will continue to operate until March 2020
- GK-2A became operational on 25 Jul 2019.

GK-2A images and 52 physical products (<http://nmsc.kma.go.kr>)

- 52 physical products have been validated using real GK-2A data
- These will be operational and released after maturity review process
(19. 10 : cloud detection, CSR, AMV, T & q profile, SI, TPW)

GK-2A CSR and AMV data release

- Plan to put these data on GTS by early 2020
- Will provide sample data set and invite feedback from NWP community

KMA LEO program

- Postponed to 2-3 years
- Feasibility study needs to be done again in 2020.
- But, try to on-board GNSS-RO receivers on other LEO satellites (CAS500 series) in collaboration with related ministries for final decision in late 2019