



Introduction of Korea Aerospace Administration(KASA)





Mission

Accelerating economic growth and space technology innovation by fostering aerospace industry as a key national industry

National Aerospace policy R&D for core space technology

International cooperation

Aerospace Industry promotion

ce on

KOMPSAT-3

KOMPST2B CAS500-1 KSLV-II (1st)

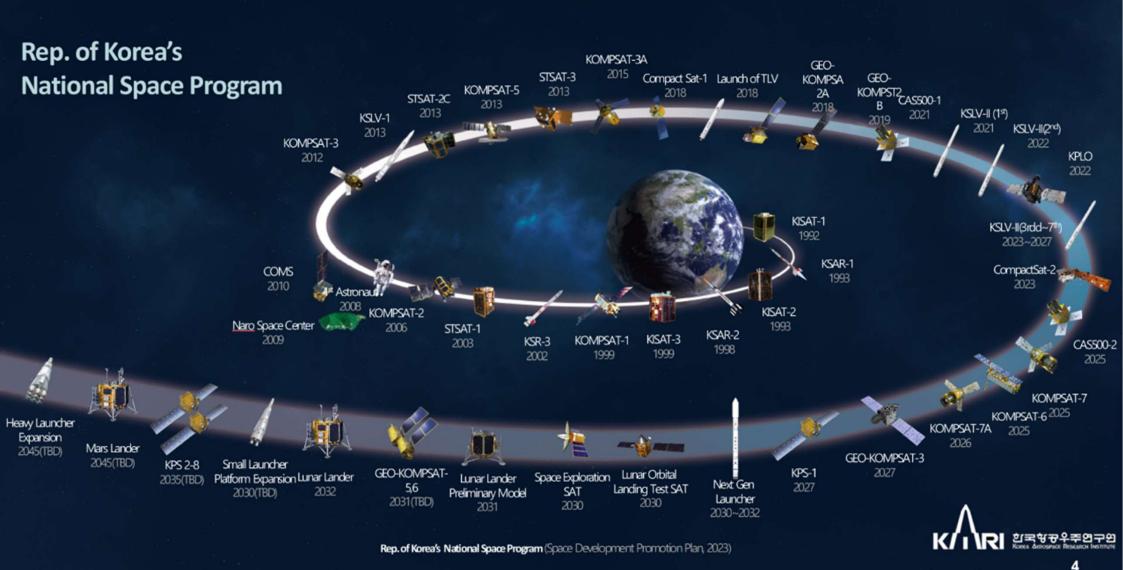
KSLV-II(3rdd~7

CompactSat-2

KARI is an affiliated research institution of KASA

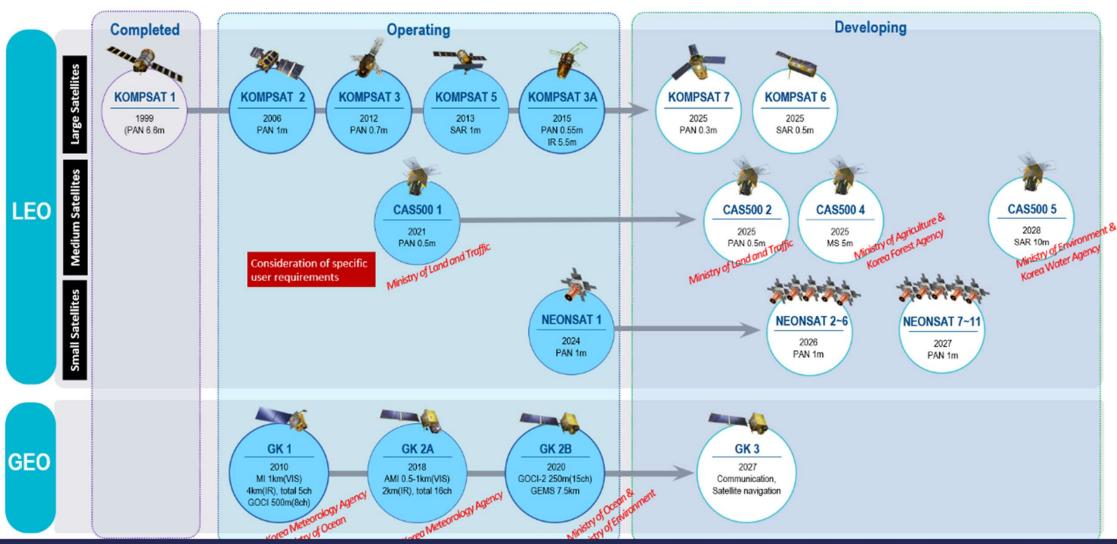






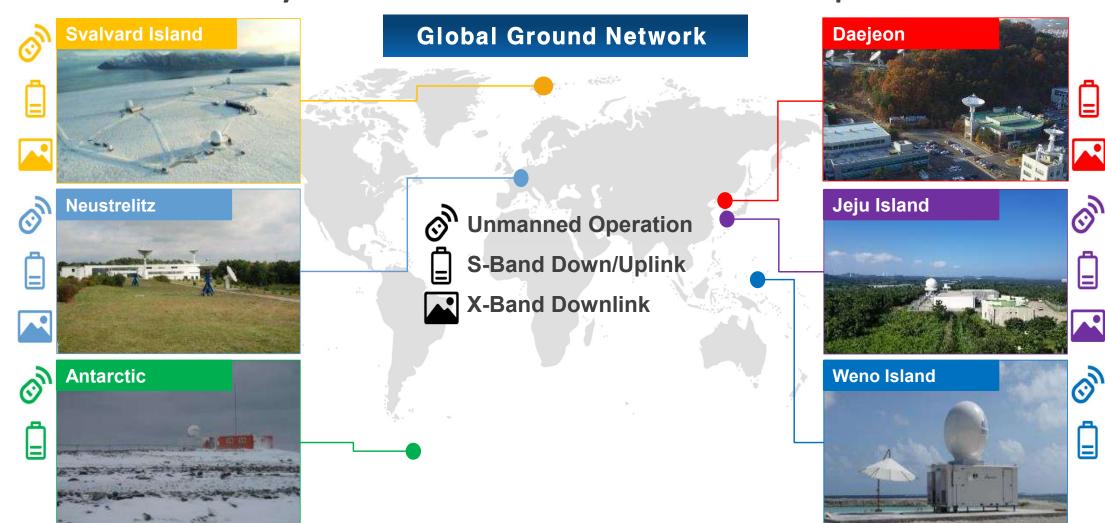


National Satellite Development Program





Ground System & Infrastructure for the Satellite Operation



National EO Satellite Operation and Application



National Satellite Operation Center

Satellites attitude and orbit control and operations

Domestic and International ground segment operations

Jeju, Korea

Daejeon, Korea

Antarctic King Sejong Station

Svalbard, Norway

Weno, Micronesia

Neustrelitz, German y

- · Satellite imagery data processing and distribution
- International cooperation (e.g. Int'l Charter on Space and Major Disasters, GEO)
- · Space situation and object monitoring



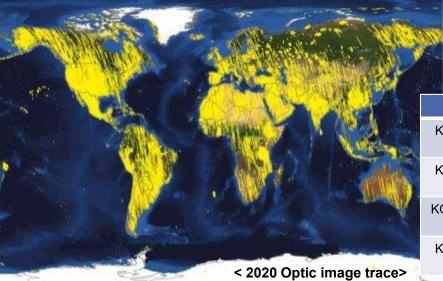
National Satellite Application Support Center

- R&D in Earth observation applications
- R&D in Al-based geospatial Intelligence
- Industry advocacy
- National and international cooperation support for government

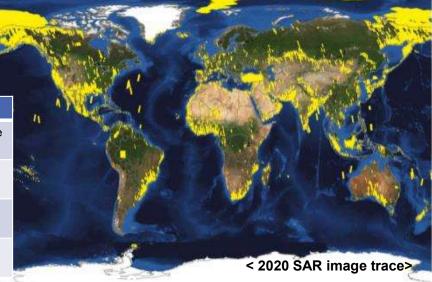




KOMPSAT Satellites Image Acquisition

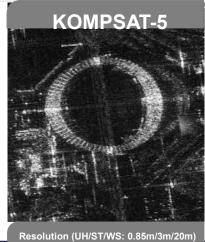


Satellite	Scene	
KOMPSAT2 ('06.7.28)	3,805,307 (15kmx15km)	Complete
KOMPSAT3 ('12.5.18)	2,533,494 (16kmx16km)	'24.03
KOMPSAT3A ('15.3.26)	1,247,244 (13kmx13km)	'24.03
KOMPSAT5 ('13.8.22)	462,173 (HR,ST,WS)	'24.03
		The state of the s







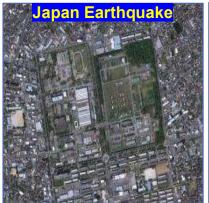


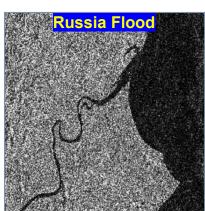


Korea has been contributed to International Cooperation for Disasters Support: 'International Charter on Space and Major Disaster'



- KARI is one of the 17 International Charter member as an affiliated organization of KASA(Korea Aerospace Administration).
- KOMPSAT image has been provided over 6,000 images since 2010.





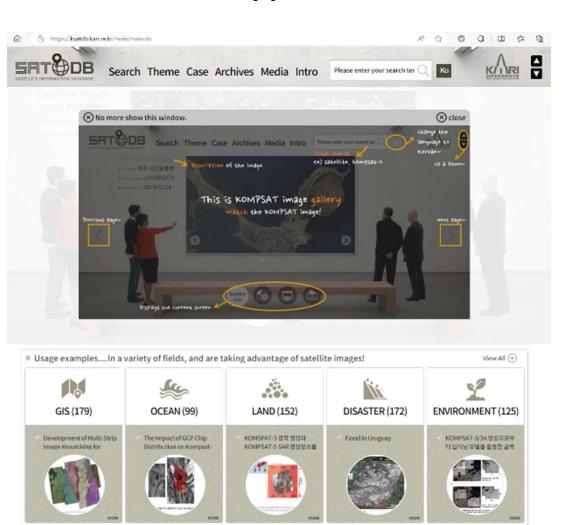




								THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN		_
	KOMPSAT-2		KOMPSAT-3		KOMPSAT-3A		KOMPSAT-5			5100
	Archiving	New Tasking	Archiving	New Tasking	Archiving	New Tasking	Archiving	New Tasking	Total('23.12)	
Total	189	351	397	1293	151	402	533	2803	6119	
rotar	540 169		90	553		3336		0119		



Applications and Search for KOMPSAT image



- I Online website to search KOMPSAT archive image
 - Developed by KARI
- Operated by SIIS

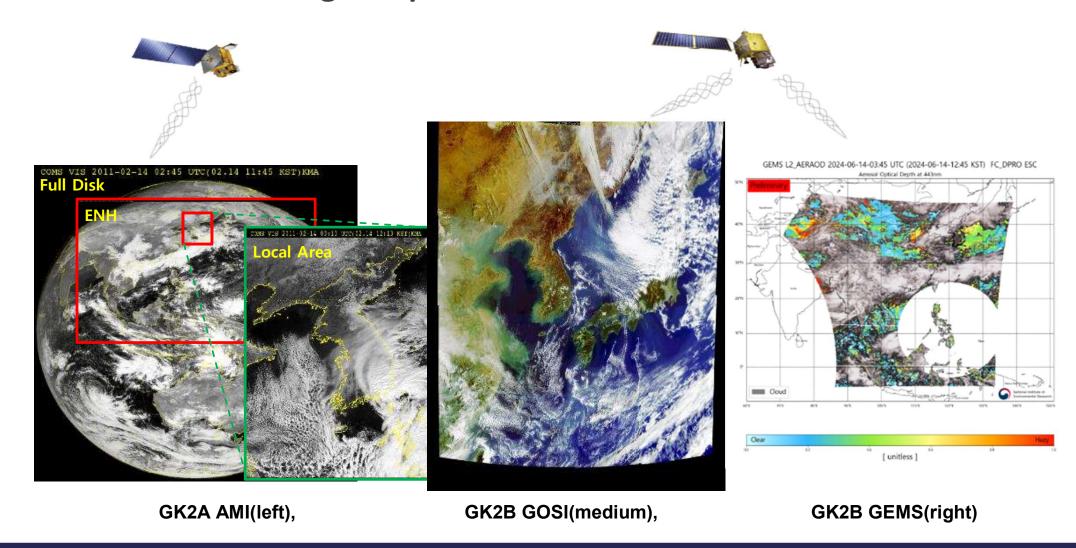


http://ksatdb.kari.re.kr/arirang/map/map.jsp

KARI is distributing to government, public and commercial users.

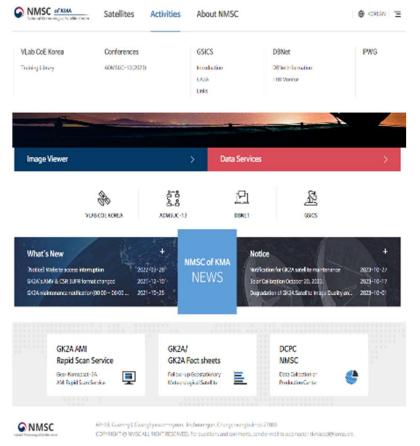


Image Acquisition of GK2A and GK2B



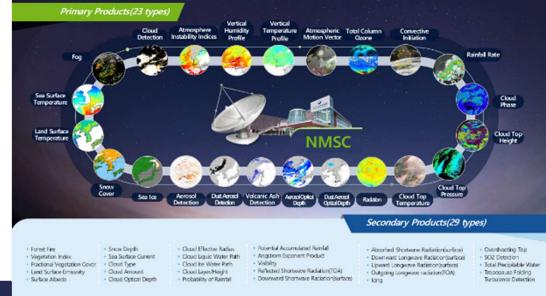


GK2A Service(AMI : Meteorology Monitoring, National Meteorological Center)



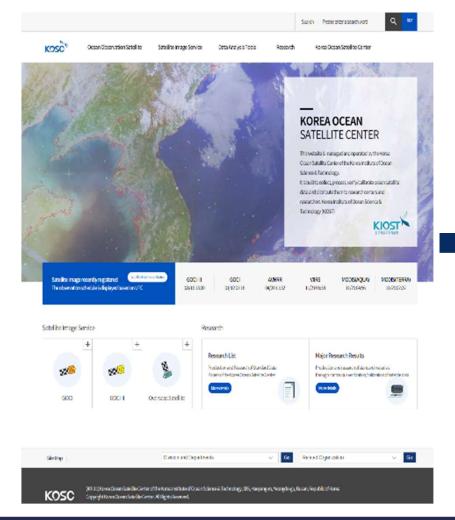


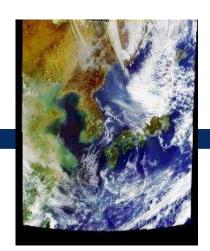
Primary Products: 23 types including Cloud Detection etc.





GK2B Service (GOSI : Ocean Monitoring, Korea Ocean Satellite Center)



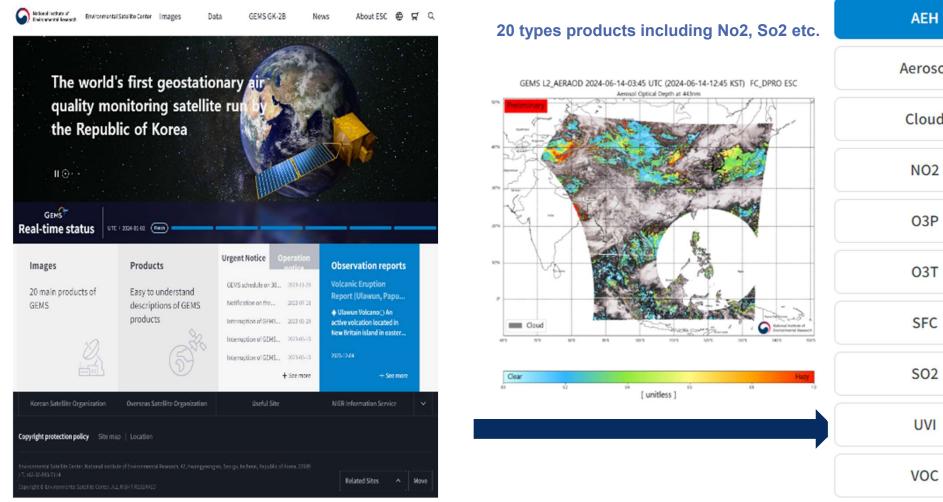


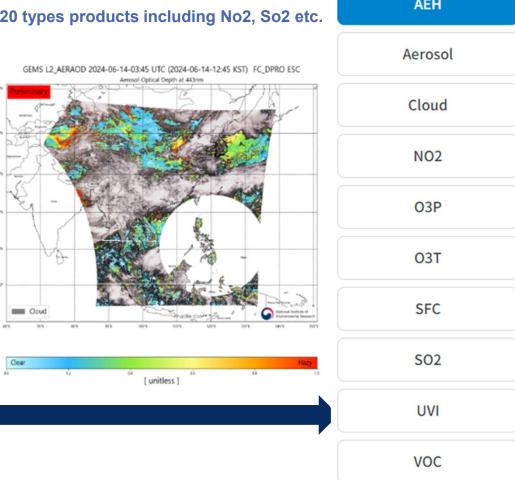
Primary Products: 26 types including Aerosol Optical Depth, Aerosol Type, Chlorophyll-a Concentration etc.

No.	Product	Product Code	Category	Temporal Reso lution
1	Rayleigh-corrected reflectance	Rhoc	AC	60 min
2	Remote Sensing Reflectance	Rrs	AC	60 min
3	absorption coefficient	а	IOP	60 min
4	backscattering coefficient	bb	IOP	60 min
5	Aerosol Optical Depth	AOD	AERO	60 min
6	Aerosol Type	AT	AERO	60 min
7	Aerosol Type Number 1 (yellow dust)	AT_NO.1	AERO	60 min
8	diffuse attenuation coefficient	Kd	oc	60 min
9	Secchi disk depth	Zsd	ос	60 min
10	Chlorophyll-a concentration	Chl	ос	60 min
11	absorption of Colored Dissolved Organic Matter	CDOM	ОС	60 min
12	Total Suspended Sediments concentration	TSS	ОС	60 min
13	Floating Algae	FA	OCEAN	60 min
14	Primary Production	PP	OCEAN	60 min
15	Chlorophyll(-a) Front	CF	OCEAN	60 min
16	Sea Surface Current	SSC	OCEAN	60 min
17	Low Sea Surface Salinity	LSSS	OCEAN	60 min
18	Sea Ice	SI	OCEAN	60 min
19	Red tide Index	RI	OCEAN	60 min
20	Fishing Ground Index	FGI	OCEAN	60 min
21	Marine Fog	MF	OCEAN	60 min
22	Land Surface Reflectance	SRL	LAND	60 min
23	Land Surface Narrow-band Albedo Land Surface Broadband Albedo	LSAN LSAB	LAND	1 day
24	Normalized Difference Vegetation Index	NDVI	LAND	1 day
25	Enhanced Vegetation Index	EVI	LAND	1 day
26	Land Cover			



GK2B Service (GEMS: Environment Monitoring, National Institute of Environmental Research)







Conclusion

- With its low-orbit and geostationary satellites, Korea has gained comprehensive monitoring capabilities, enhancing the ability to effectively respond to both local and widespread environmental changes and natural disasters.
- Additionally, we will continue to promote international cooperation by participating in disaster and space cooperation programs such as the 'International Charter.
- The establishment of the Korea AeroSpace Administration(KASA) is expected to expand investment in space and further advance the development of satellites for various purposes.





Thank you for your attention

