Introduction to the National Disaster Management Research Institute (NDMI)

23-January-2018

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Ministry of the Interior and Safety National Disaster Management Research Institute

NDMI's history

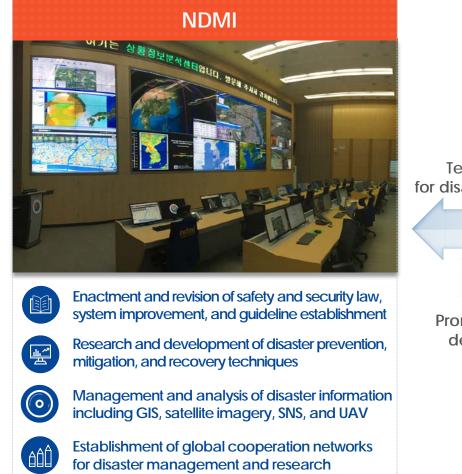
"Disaster Safety Leading Global Think Tank

1997 - NOW

- **1997** Opening of the National Institute for Disaster Prevention (NIDP) under the Ministry of the Interior
- **2004** Transformed into the National Emergency Management Agency (NEMA)
- 2011 Reorganized under the Ministry of Public Administration and Security (MOPAS)
- 2013 Changed to the National Disaster Management Institute (NDMI) Transformed into the executive agency under the Ministry of Security and Public Administration (MOSPA)
- 2014 Transformed into the agency under the Ministry of Public Safety and Security (MPSS)
- 2015 Moved to the Ulsan city from Seoul
- 2017 Transformed into the agency under the Ministry of the Interior and Safety (MOIS)



Mission and roles



Technical needs for disaster management

Promptly supporting decision making





Tasks of fire-fighting and disaster prevention

Tasks of emergency preparedness and civil defense

Security, safety, preventing pollution in the ocean and investigating maritime incidents

Organization chart



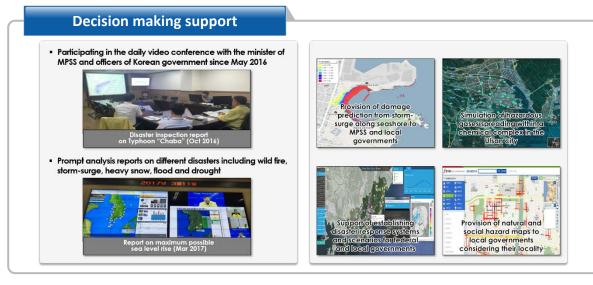
Disaster Situation Analysis Center (DSAC)



Disaster detection and modeling



Total 34 disaster monitoring and modeling systems were developed by the NDMI's technology



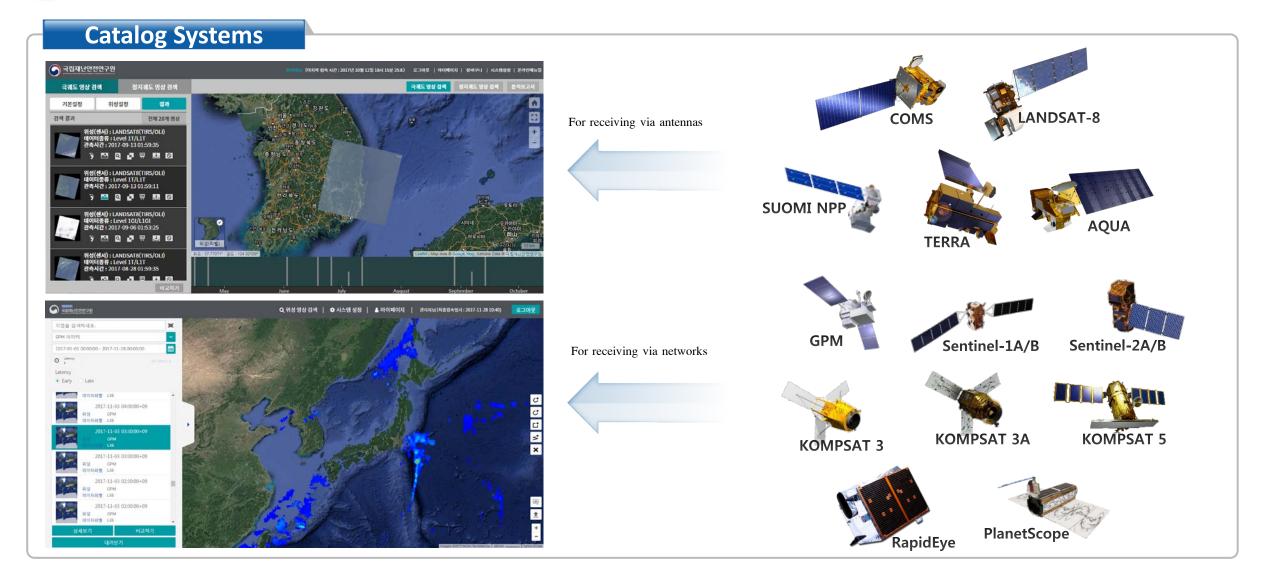
Public relations and training programs



Disaster Situation Analysis Center (DSAC)



Disaster Situation Analysis Center (DSAC)

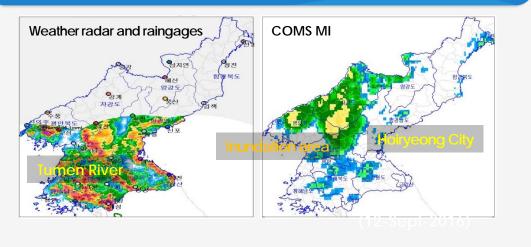


Satellite applications

Flood inundation estimation in North Korea (COMS)



Daily rainfall monitoring in North Korea (COMS)



Vertical displacement by the 6th Nuclear test in North Korea (SAR)

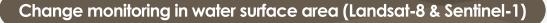


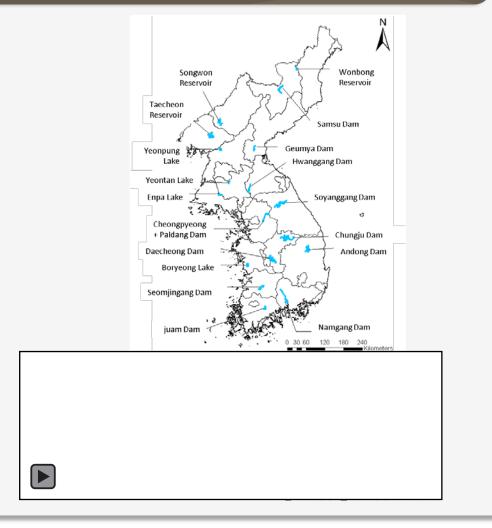
Estimation of burnt area by wild fire in South Korea (Landsat-8)



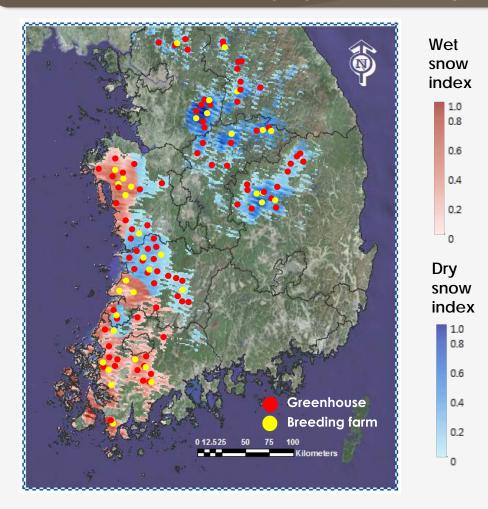


Satellite applications



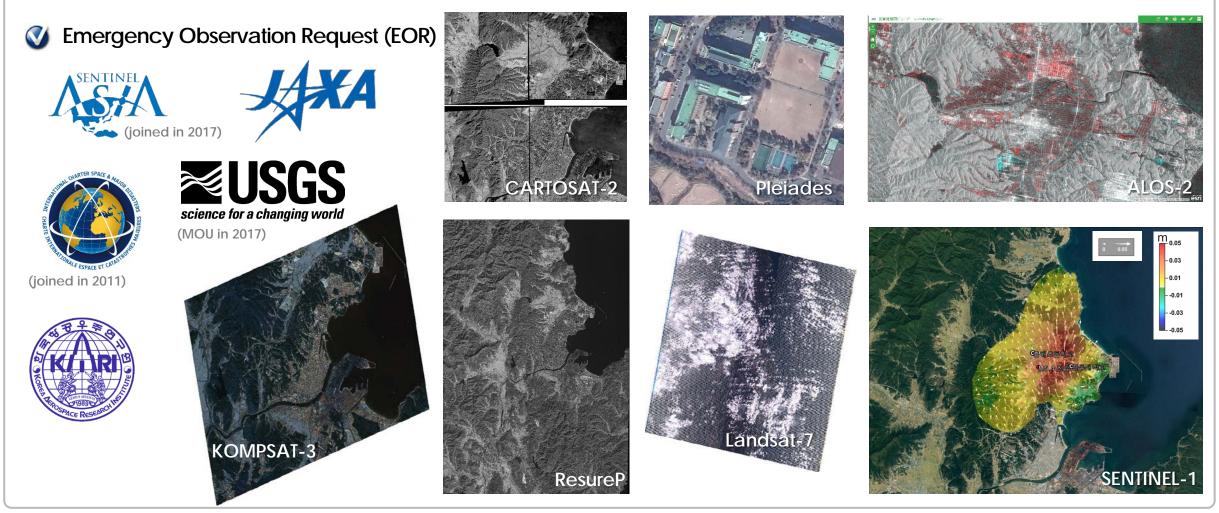


Risk analysis of temporary buildings against heavy snow (MODIS)

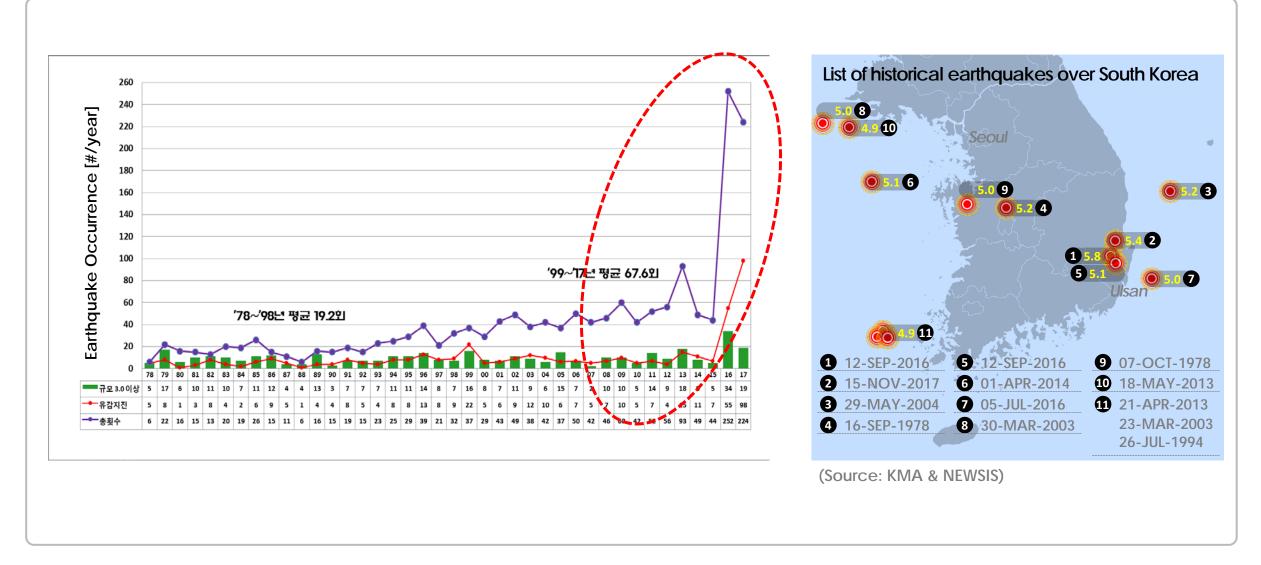


Satellite applications

Earthquake in Pohang



Historical earthquakes over South Korea





- Strengthen our international cooperation system through active involvement in different international organizations including SA and IC.
- Excavate and conduct international joint research programs to share information and technology in disaster management.
- Strengthen our professionalism and international cooperation system by participating in different human resources training programs.
- Follow the prescribed procedures for joining the data analysis node (DAN) of SA in the near future.

Thank you for your attention!



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