The Collaboration Between Hydro-Meteorological Agencies and Disaster Management Agencies for Disaster Damage Reduction in Korea

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I. Natural Disasters in Korea

1. Environments of Korea

• The Republic of Korea is located in the east part of the Asian continent(33-43°N, 124-132°E) as a peninsula.

• The east side elevation of Korean peninsula is high with steep gradient while western coastal areas are gradually sloping.

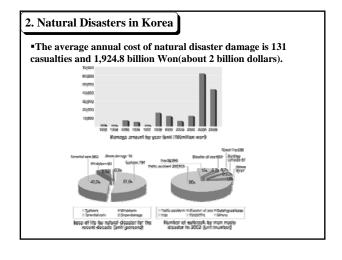
• Korea has four distinct seasons with dry spring(Yellow dust and wild fire), hot-humid summer(heavy rain and typhoon), pleasant fall, and cold-snowy winter(winter-storm).

• The average annual rainfall is 1,274mm, and the approximately 50-60 percent of annual rainfall drops in summer season.

• About 2-3 typhoons annually pass the Korean peninsula from southwest to northeast.

2. Natural Disasters in Korea

- Types of natural disasters in Korea
 - Flood by Heavy Rain
 - Typhoon(July-October)
 - Storm
 - Landslide(with flood, typhoon, and storm)
 - Winter Storm and Heavy Snowfall
 - Yellow dust
 - Drought
 - Earthquake
 - Tsunami/Storm surge
 - Others : Wild fire, Volcanic eruption





1. Laws and Regulations

Basic Laws

Disaster and Safety Management Basic Act passed in 2004

Natural disasters

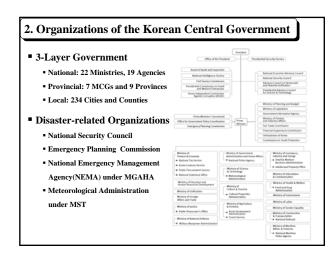
Human-caused Disasters

- Critical Infrastructure Protection against Social Disasters
- Natural Disaster Countermeasures Act passed in 1995, and revised in 2005

Related Laws

- Act on Countermeasures against Agricultural and Fishery Disaster Damage first passed in 1995
- Disaster Relief Act enacted in 1962
- Meteorological Act revised in 2005
- Meteorological Met revised in 2005

 More than seventy laws/regulations of the Korean government are related to disaster countermeasure actions.



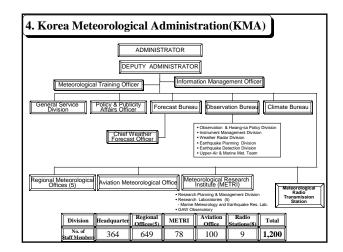
3. National Emergency Management Agency(NEMA) Head Office Brief History 2003.03.04 - Improvement of Disaster Status Control Center disaster management systems was ordered at a Cabinet council • 2003.03.17 - The National Disaster Management System Planning Team was established. 2004.03.11 - The revised bill for the Governmental Organization Law and the Disaster and Safety Management Basic Law was announced. - 2004.06.01 - The NEMA was opened. Affiliated Organization The National The National Helihule The Chill Defense National 118 Rev Academy tor Deaster Prevention Training Center Rescue Service

4. Korea Meteorological Administration(KMA)

Brief History

- 1949 Central Meteorological Office(CMO) was established.
- 1990 KMS was elevated to the Korea Meteorological
- Administration (KMA).
- 1996 The Earthquake Division was newly established.

• 2005 - The Administrator of KMA was promoted to the undersecretary level in the central government.



5. Disaster Management Planning

Disaster Mitigation Planning

- National Safety Management Plan
- Civil Defense Plan
- Natural Disaster Mitigation Plan
- Pre-Evaluation Process for Natural Disaster Impacts
- Area-Based Flood Management Standards
- Disaster Response Planning
 - Emergency Support System and Plan(National, Local)
 - Emergency Action Plan for Natural Disasters
- Disaster Recovery Planning
 - Natural Disaster Recovery Plan

III. Agency Roles and Collaboration in Korea

