Water Management Exhibition Hall

Han River Flood Control Office protects people's lives and properties from flood

www.hrfco.go.kr

MLTM
Ministry of Land, Transport and Maritime Affairs
Han River Flood Control Office

Transportation

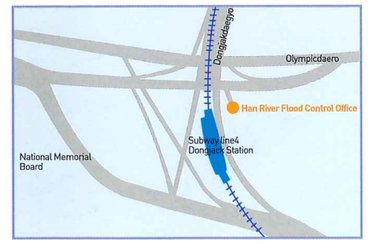
BUS _ National Cemetery stop, 300m towards Dongjak station

Blue bus _ 361, 640, 752, 360, 363, 362

Green bus _ 5524, 6411

Red bus _ 9408, 9412

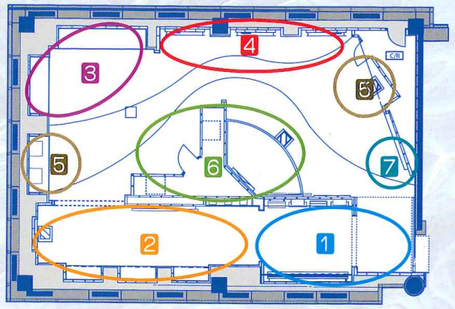
Subway _ Exit 1 of Dongjak station (Line 4), 100m to the left



MLTM
Ministry of Land, Transport and Maritime Affairs
Han River Flood Control Office

39 Hansu-gil(751 Banpobon-Dong), Seocho-Gu, Seoul 137-049, Korea
Contact number(ARS) 02.590.9999
Voice service on hydrological information 02.592.7700

Floor plan



1 Introduction
Information / Reception / Image Tunnel

2 Water & Disaster
Reproduction of classics / Chronological table of flood & drought/Disasters in the Three Kingdoms & Koryo Period/ Disasters in the Chosun Period/ Disasters in the Modern Period

3 The History of Hydrological Investigation
The Chosun Period(Rain gauge & Watermark) /Modern Period

4 Functions of Han River Flood Control Office in the Modern days
Hydrological Investigation /River Flow Management / Flood Forecast

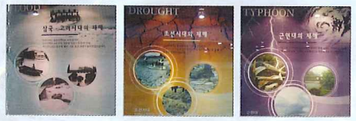
5 Search
Classics / Information

6 Models for Exploration
Water level measurement / Precipitation measurement / Flood forecast

7 Future Vision
Integrated Water Resources Management by IT & Ubiquitous technique

Water and Disaster

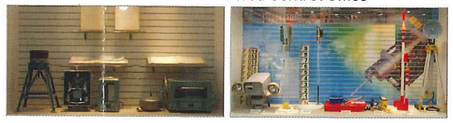
- **Disasters in the Three Kingdoms & Koryo Period**
  In summer, torrential rain sweeps the whole country. Historically, our country have always been disasters led by flood, typhoon and drought.
- **Disasters in the Chosun Period**
  During the Chosun period, measures to control flood and drought was implemented throughout the nation to encourage the agricultural industry through active use of water.
- **Disasters in the Modern Period**
  In the 20th century, efforts are being made to minimize disasters through research, management and forecast system.



The History of Hydrological Investigation

- **Chosun Period**
  Rain gauge : Rain gauge was placed to count the amount of rainfall.
  Watermark : Six-angled & spindle-shaped water gauge made to measure the height of water in Cheonggye stream.

- **Modern Period**
  Water level is observed through Video hydrograph, bubble gauge and float gauge and the speed of water flow is being measured through state-of-the-art equipments such as Ultrasonic velocity meter and Microwave surface velocity meter. Functions of Han River Flood Control Office



Functions of Han River Flood Control Office

- **Hydrological Investigation**
  Hydrological study is an important work done to secure basic data for water management and quantify the nation's valuable asset of water resources.
- **River flow management**
  River flow management is a work done to promote public interest by managing river water rationally and make sure that every single person enjoys the benefit the water management
- **Flood forecast**
  Flood forecast is done to predict the size of flood that can occur in the watershed and provide the result of observation to related agencies in order to minimize the damage from flood by enabling people to be prepared in advance.

Search

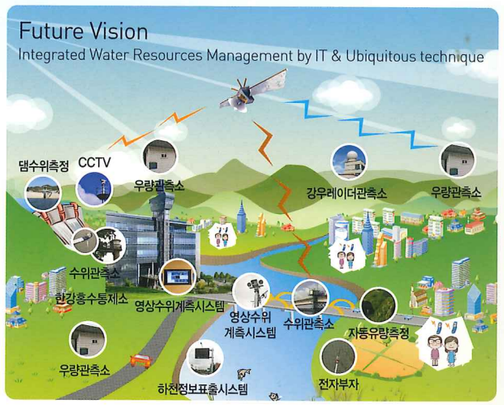
- **Classics**
  Records of flood history
  (Flood History), http://floodhistory.kict.re.kr/
- **Information**
  Water Resources Management Information System
  (WAMIS), http://www.wamis.go.kr/
  Water Management Information Networking System
  (WINS), http://www.wins.go.kr/
  River Management Graphic Information system
  (RIMGIS), http://www.river.go.kr/

Models for Exploration

- **Water level measurement**
  Measuring the height of water surface in rivers and reservoirs
- **Precipitation measurement**
  Measuring the amount of precipitation fallen on even surface that have not been evaporated or flown
- **Flood forecast**
  Understanding the process of flood forecast by looking at video clips explaining water level and water flow observation equipments placed in the basins of Han river, Ansung stream and Imjin river.

Future Vision

Integrated Water Resources Management by IT & Ubiquitous technique



Han River Flood Control Office makes seamless effort to protect the valuable lives and properties of our people.

River system of Korea

What is river system?
General term for all rivers flowing into the sea through one estuary.

Five major rivers of South Korea

(reference: Encyclopedia, River directory)

- **Han River :** River that flows into the Yellow sea passing by the central part of Korea, Gangwondo, Chungcheongbukdo, Gyeonggido and Seoul. Length : 494.44 km, Watershed area : 35,770.41 km^2 (Watershed area of South Korea 25,953.60 km^2)
- **Nakdong River :** River that flows into the South sea passing by the low areas in the central part of Young nam region. Length : 510.36 km, watershed area : 23,384.21 km^2
- **Geum River :** River that flows into Gunsan bay from Jangsu Eup, Jangsu Gun of Jeollabuk-do, passing by Chungcheongnam-do & Chungcheongbuk-do. Length : 397.79 km, Watershed area : 9,912.15 km^2
- **Sumjin River :** River that flows by the southeastern part of Jeollabuk-do and Northeastern part of Jeollanam-do. Length : 223.86 km, Watershed area : 4,911.89 km^2
- **Youngsan River :** River that flows to the southwest, into the yellow sea from Damyang-gun of Jeollanam-do. Length :136.66 km, Watershed area : 3,467.83 km^2

Three major rivers of North Korea

(reference: Encyclopedia, River directory)

- **Aprok River :** River that divides Korea(North Korea) and China and flows into the Yellow sea. Length : 803 km, Watershed area : 63,160 km^2
- **Duman River :** River that flows from the southeastern slope of Baekdu mountain into the East Sea. Length : 548 km, Watershed : 32,920 km^2
- **Daedong River :** River that flows from Han rae Ryeong into the Yellow sea. Length : 450 km, Watershed area : 20,247 km^2


Duman River
Duman River System
Aprok River
Aprok River System
Cheongcheon River System
Daedong River
Daeddong River System
Yeoseong River System
Han River
Han River River System
Anseong River System
Sapgyo River System
Geum River
Guem River System
Mangyung River System
Dongjin River System
Sumjin River System
Sumjin River
Youngsan River System
Youngsan River
Tamjin River System
Nakdong River System
Nakdong River
Hyungsan River System
Taehwa River System
장진강
부전강
대령강
구룡강
조롱강
개천강
청천강
북한강
소양강
임진강
섬강
달천
미호천
갑천
논산천
강경천
만경강
동진강
보성강
탐진강
황룡강
지석천
밀양강
함안천
남강
형산강
태화강
금호강
내성천
감천
제주도