



Recent Activities of KMA (Long-Range Forecast)

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1. Introduction of GPC Seoul



Goal of GPC Seoul

The mission of GPC Seoul is to provide forecast outputs for Long Range Forecast (LRF) periodically to the GPCs and NMHSs.

The provided data will be used in the various sectors such as agriculture, water resources managements, disaster managements, the weather sensitive industries and socio-economic activities etc.

Function of GPC Seoul



- ❖ **To provide a limited set of forecast products (Images and GRIB2) for Long Range Forecast (LRF) as determined by the Apendix II-6 of the Manual on the Global Data Processing and Forecasting Systems (GDPFS).**
- ❖ **To Provide hindcast data and other supporting information to WMO member countries.**
- ❖ **To verify the forecast outputs by WMO Standard Verification System for Long Range Forecast (SVSLRF) and to submit the results of verification to Lead centre for SVSLRF at the Bureau of Meteorology, Melbourne.**

The other GPCs



- **Melbourne (Australia)** - <http://www.bom.gov.au/bmrc/ocean/JAFOOS/POAMA/>
- **Montreal (Canada)** - http://www.weatheroffice.gc.ca/saisons/index_e.html
- **Beijing (China)** - <http://bcc.cma.gov.cn>
- **Toulouse (France)** - <http://www.meteofrance.com/FR/index.jsp>
- **Tokyo (Japan)** - <http://ds.data.jma.go.jp/tcc/tcc/products/model/index.html>
- **Washington (USA)** - <http://cfs.ncep.noaa.gov/>
- **Exeter (UK)** - <http://www.metoffice.gov.uk/research/seasonal/index.html>
- **ECMWF** - http://www.ecmwf.int/products/additional/gts_headers_seasonal.html



(Refer to WMO-No. 1017)

Website of GPC Seoul

GPC Seoul



http://www.wmolc.org/~GPC_Seoul/

WMO LRF MME - Microsoft Internet Explorer

http://www.wmolc.org/~GPC_Seoul/

KMA GPC Seoul
Global Producing Center for Long Range Forecast

Forecast Service

- 200hPa Geopotential Height
- 500hPa Geopotential Height
- 850hPa Temperature
- Mean Sea Level Pressure
- Precipitation
- Sea Surface Temperature
- 2m Temperature

500hPa Height Anomaly(gpm)

SON2007

Enlarge

SON SEP OCT NOV

500hPa Height Anomaly(gpm)

90N
60N
30N
EQ
30S
60S
90S

0 30E 60E 90E 120E 150E 180 150W 120W 90W 60W 30W 0

-50 -40 -30 -20 -10 -5 5 10 20 30 40 50

Last update : Aug.27.2007
Initial Conditions : 03Aug2007-07Aug2007

KMA GPC Seoul

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Disclaimer

인터넷

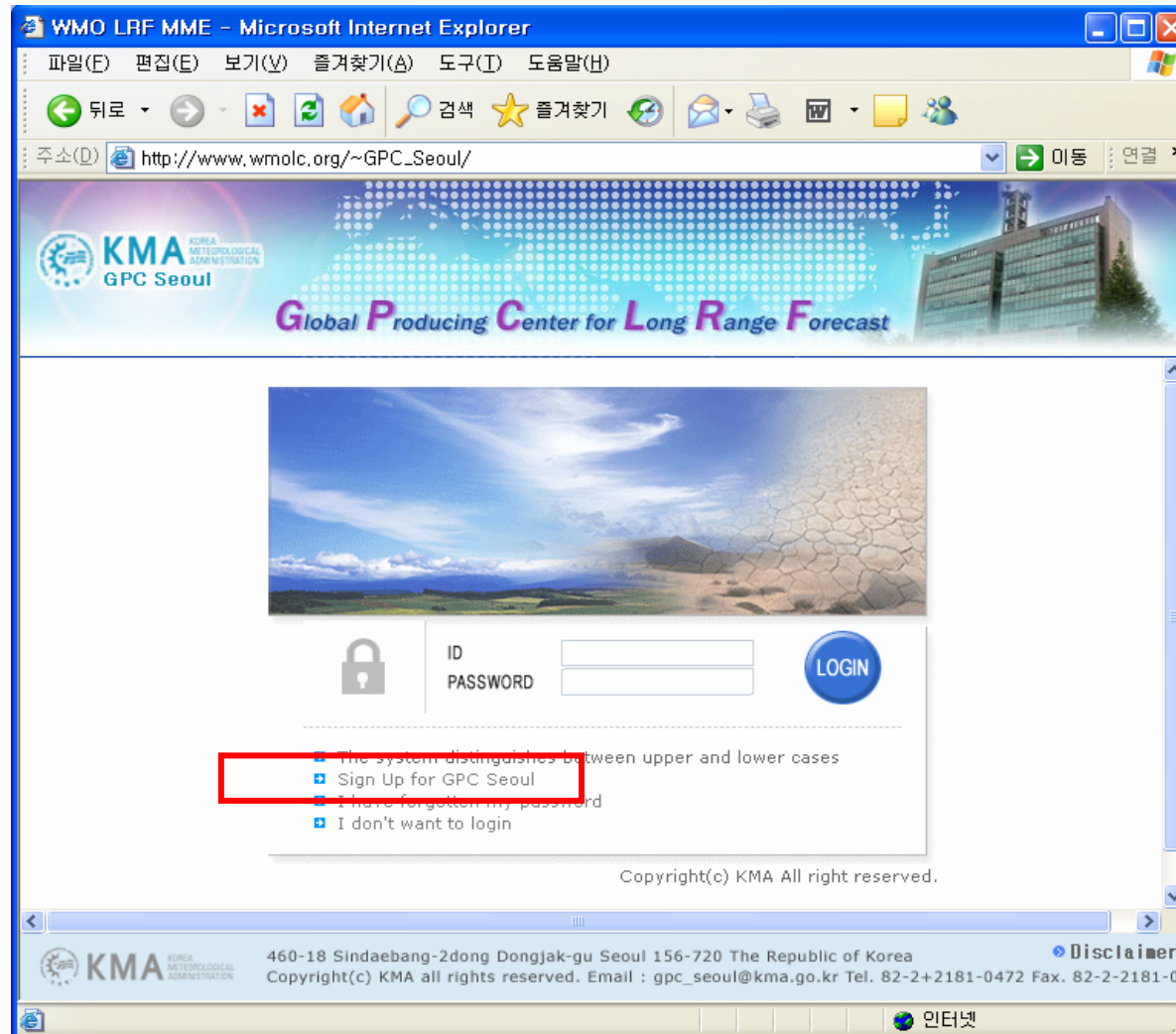
Example of Data Service

The screenshot shows a Microsoft Internet Explorer window displaying the website 'WMO LRF MME - Microsoft Internet Explorer' at the URL 'http://www.wmolc.org/~GPC_Seoul/'. The page features a header with the KMA GPC Seoul logo and the text 'Global Producing Center for Long Range Forecast'. A left sidebar contains a menu with 'Data Service' highlighted in a red box. An arrow points from the text 'Password protected' to this red box. The main content area shows a table with columns 'File Name', 'File Size', and 'Changed'. The table lists numerous files with names like 'gdaps_climSON_1979to2006.grib2' and dates ranging from August 27, 2006, to August 27, 2003. At the bottom, there is a footer with contact information for KMA and a disclaimer.

File Name	File Size	Changed
gdaps_climSON_1979to2006.grib2	2917956	Aug 27 23:58
gdaps_2006SON_0803to0807.grib2	2917956	Aug 27 23:56
gdaps_2005SON_0803to0807.grib2	2917956	Aug 27 23:56
gdaps_2004SON_0803to0807.grib2	2917956	Aug 27 23:55
gdaps_2003SON_0803to0807.grib2	2917956	Aug 27 23:54
gdaps_2002SON_0803to0807.grib2	2917956	Aug 27 23:53
gdaps_2001SON_0803to0807.grib2	2917956	Aug 27 23:53
gdaps_2000SON_0803to0807.grib2	2917956	Aug 27 23:52
gdaps_1999SON_0803to0807.grib2	2917956	Aug 27 23:51
gdaps_1998SON_0803to0807.grib2	2917956	Aug 27 23:51
gdaps_1997SON_0803to0807.grib2	2917956	Aug 27 23:50
gdaps_1996SON_0803to0807.grib2	2917956	Aug 27 23:49
gdaps_1995SON_0803to0807.grib2	2917956	Aug 27 23:49
gdaps_1994SON_0803to0807.grib2	2917956	Aug 27 23:48
gdaps_1993SON_0803to0807.grib2	2917956	Aug 27 23:47
gdaps_1992SON_0803to0807.grib2	2917956	Aug 27 23:46
gdaps_1991SON_0803to0807.grib2	2917956	Aug 27 23:46
gdaps_1990SON_0803to0807.grib2	2917956	Aug 27 23:44
gdaps_1989SON_0803to0807.grib2	2917956	Aug 27 23:43
gdaps_1988SON_0803to0807.grib2	2917956	Aug 27 23:43
gdaps_1987SON_0803to0807.grib2	2917956	Aug 27 23:42
gdaps_1986SON_0803to0807.grib2	2917956	Aug 27 23:41
gdaps_1985SON_0803to0807.grib2	2917956	Aug 27 23:41
gdaps_1984SON_0803to0807.grib2	2917956	Aug 27 23:40
gdaps_1983SON_0803to0807.grib2	2917956	Aug 27 23:39
gdaps_1982SON_0803to0807.grib2	2917956	Aug 27 23:38
gdaps_1981SON_0803to0807.grib2	2917956	Aug 27 23:37
gdaps_1980SON_0803to0807.grib2	2917956	Aug 27 23:32
gdaps_1979SON_0803to0807.grib2	2917956	Aug 27 23:30

Password protected

Sign up for GPC Seoul



2. Introduction of Lead Center for LRF MME

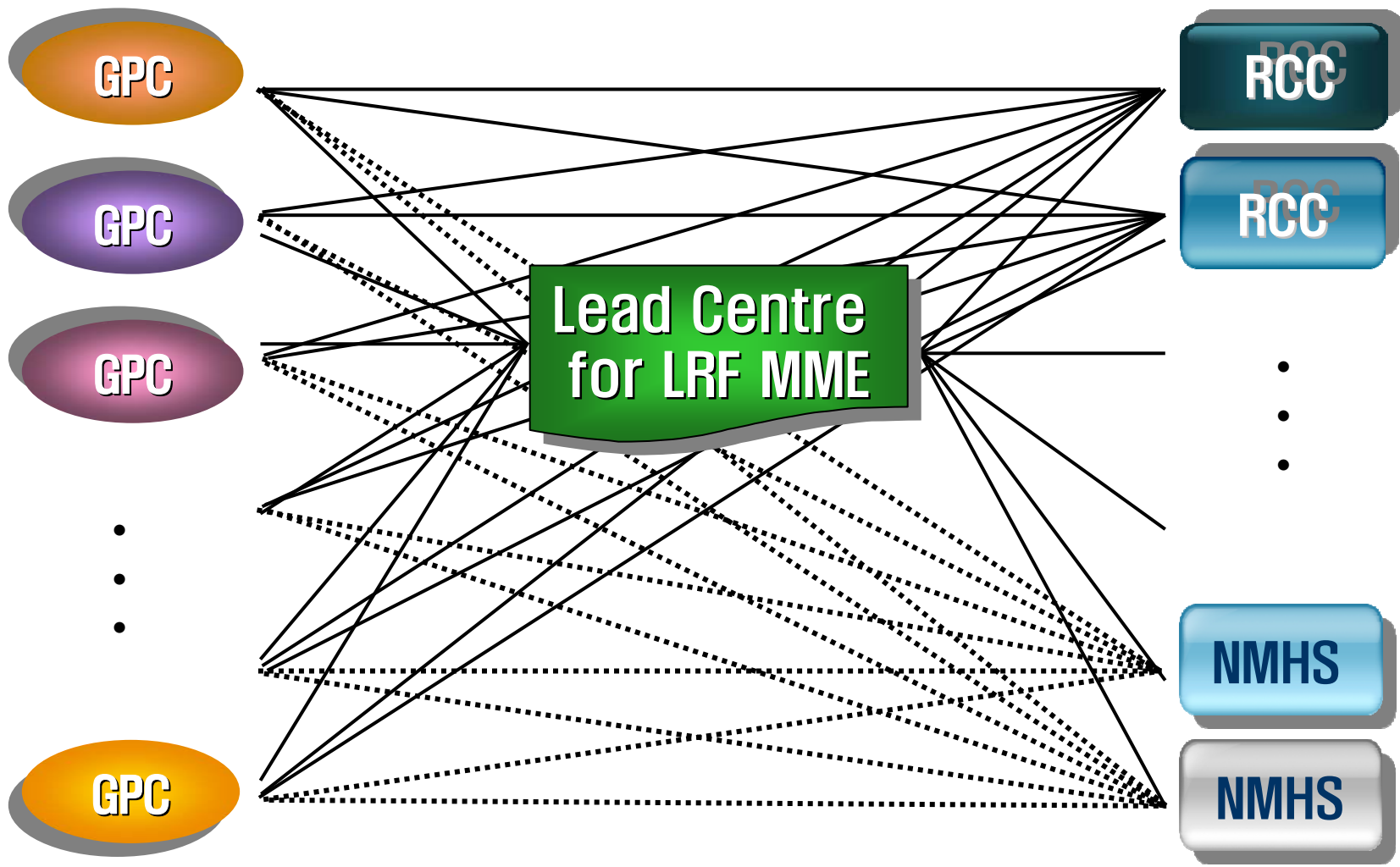
Why LC-LRFMME?

LRF model outputs are not fully used due to different standards

It would be quite useful if all GPCs share their outputs with all regions

To use outputs more widely and effectively, we need linkage between GPCs and RCCs

→ If many GPCs' products are combined by Lead Centre for LRF MME , seasonal and long-range prediction will be better than now and will contribute to disaster prevention and mitigation, and contribute to better socio-economic planning that accounts for variable climatic conditions by fully using GPCs's products.



Overview of LC-LRF MME Homepage



<http://www.wmolc.org>

[Link](#)

WMO Lead Centre for LRF MME

Site Map | Contact Us | Login

Home | **About Us** | News & Events | **Multi-Model Ensemble** | Data | **TeleConference** | Related Sites

How to Access | Schedule | Conference Room

World Meteorological Organization
Lead Centre for Long-Range Forecast Multi-Model Ensemble Predictions

In order to reduce the socio-economic losses and protect life and property, WMO Lead Centre for LRF MME has established its ultimate goal of minimizing the impact of meteorological disasters through: sharing the model data for improving skill of LRF and increasing the reliability of LRF.

$$MME = 0 + \sum_{i=1}^N a_i (F_i - F_i)$$

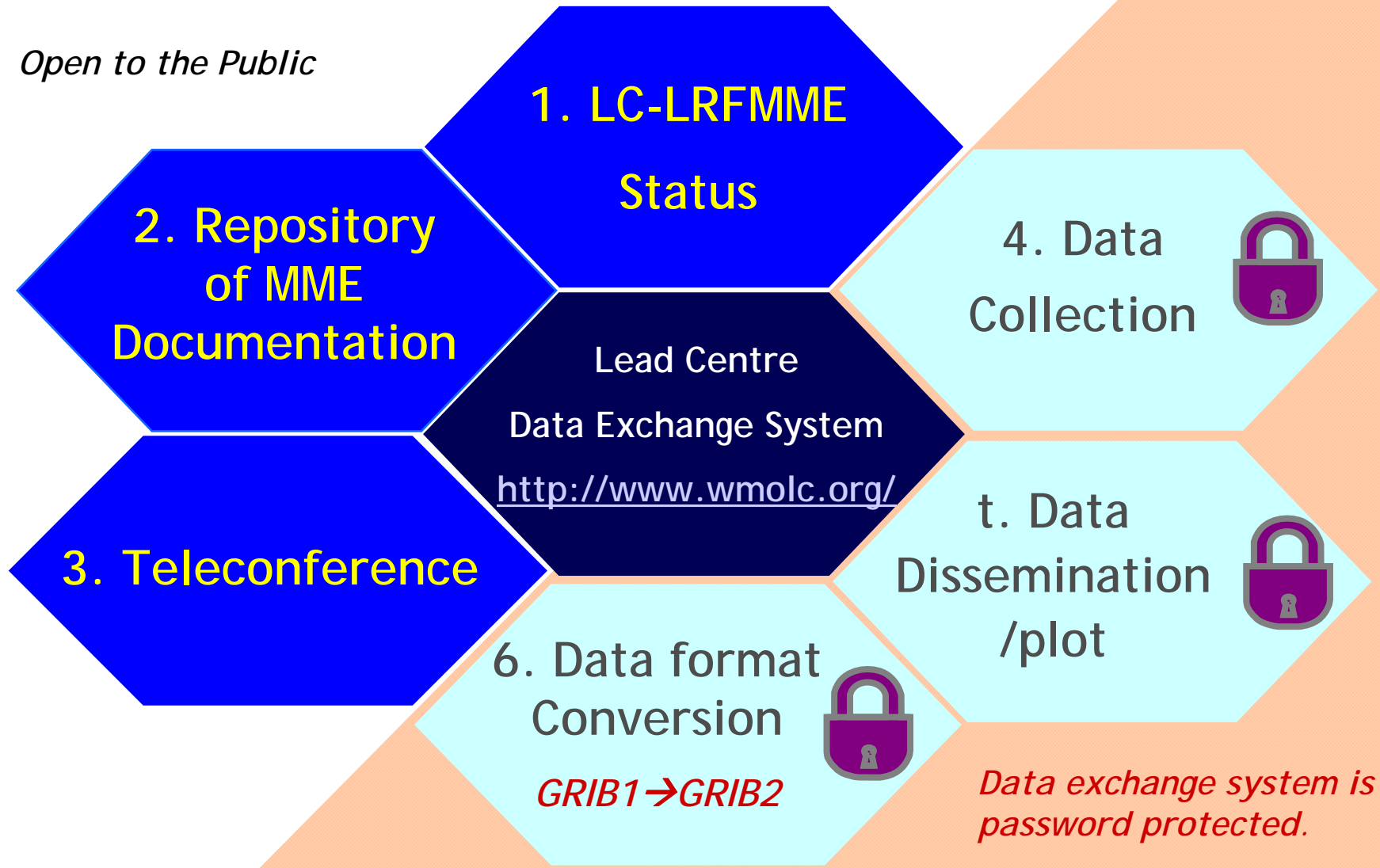
GPCs: Beijing, ECMWF, Exeter, POAMA Melbourne, Canada Montreal, Seoul, Tokyo, Toulouse, Washington

Links to 9
GPCs →

Structure of LC-LRF MME Homepage



Open to the Public





Access to Data

- ❖ Access to data is available for registered members only.
- ❖ The **Access Request Form** should be submitted and login ID/password would be provided by the Lead Centre.
- ❖ For GPCs, ID/passwords are issued as

<example>

ID : gpc_seoul / gpc_washington / gpc_ecmwf ...

PW:gpc_seoul / gpc_washington / gpc_ecmwf ...

3. Future Network; *K-WIS (WMO Information System)*



- A WIS prototype being developed at KMA based on
 - SIMDAT/V-GISC Project funded by EU and coordinated by ECMWF
- Forming a **global** V-GISC (Virtual Global Information System Centre) along with SIMDAT partners and collaborators around the world
 - DWD, Météo France, UKMO, EUMETSAT, ECMWF, **KMA**, JMA, CMA, BoM, CMC, NCAR and RNODC
 - More than **27,000 data sets** shared
- KMA is building a NOMADS gateway to bridge the WIS community and the NOMADS community
- KMA is planning to provide **GPC_Seoul** data sets through K-WIS

SIMDAT Meteo Portal at KMA - Microsoft Internet Explorer

파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H)

뒤로 -> -> -> 검색 * 즐겨찾기 주소(D) 연결 >>

SIMDAT Home Search Directory Requests Keyword search

Home >

Welcome to the SIMDAT portal hosted by the Korea Meteorological Administration

The simdat portal provides fast discovery and data access to the partners and collaborators of the simdat meteo activity.

What can I do with the portal?

- You can Search and Browse over numerous data sets from all the data centres involved.
- Once you have found a dataset, you can explore the metadata , it might give you some more information about the selected product.
- ... or you can proceed and place a data request. At this point, you might find a "Data Request and Subselection" page, and it will display a choice of values or form entries to subselect the specific product.
- Finally if you have placed a request you can track its status and when completed you will be able to download the data.

Serving 27,797 datasets

Search

Search over a wide range of datasets with a google-like search plus additional criterias for temporal and geographical selection.

Directory

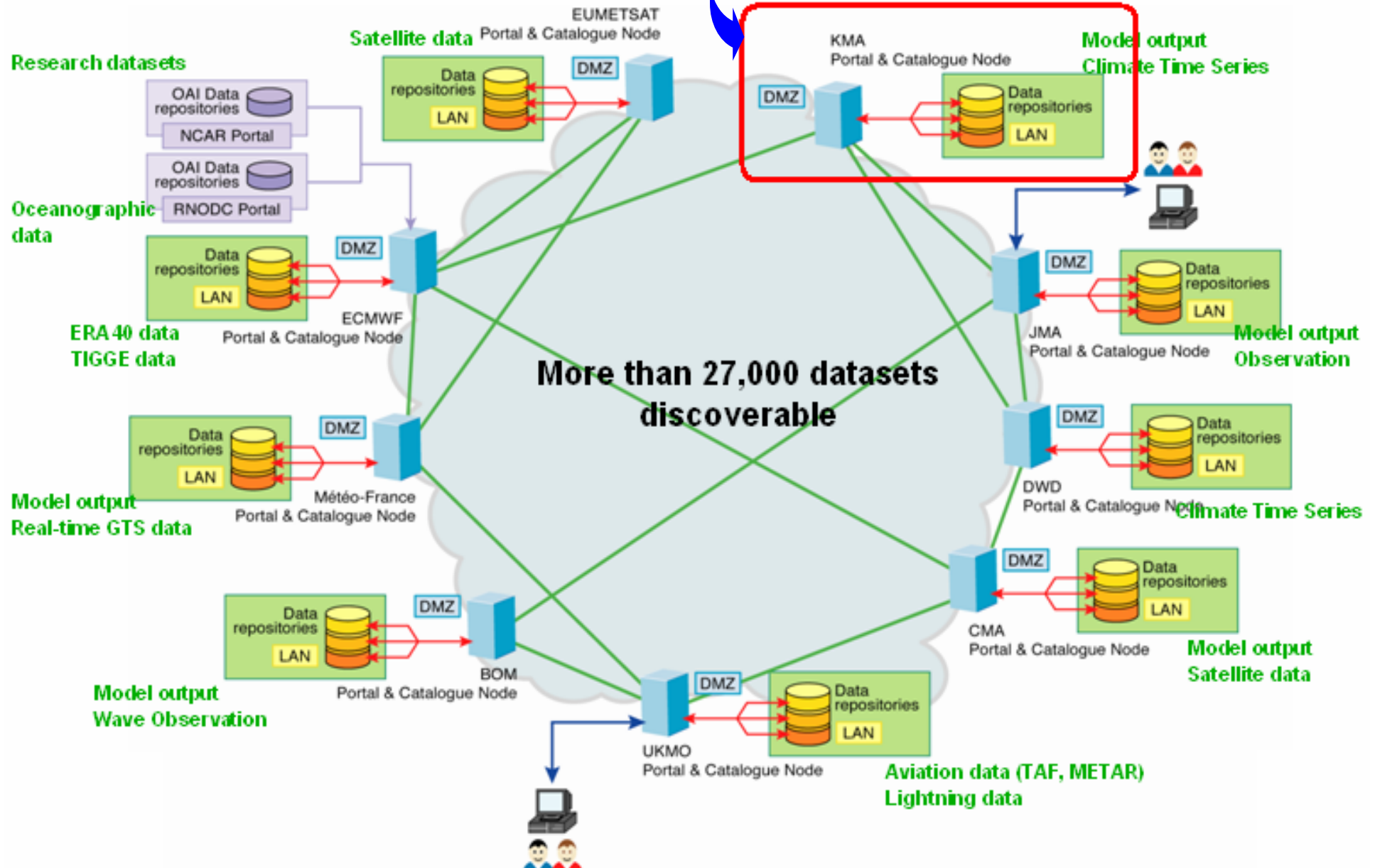
Explore the different directory-like classification of categories where the data products are located.

Data Requests and Download

Check the status of your request and download the data if the request has been processed.

Prototype Status

Future GPCs → Present LC-LRFMME → Member countries





Thank You!!

감사합니다.

History of GPC Seoul



- **THE WORKSHOP OF GLOBAL PRODUCERS OF SEASONAL TO INTERANNUAL FORECASTS (CBS OPAG ,GENEVA, 10-13 FEBRUARY 2003)**
 - *Discussed the function of GPCs and requirement to to be joined*
- **WORKSHOP OF GLOBAL PRODUCERS OF LONG-RANGE FORECASTS (CBS OPAG, Jeju Island, Republic of Korea ,10-14 October 2005)**
 - *Discussed GPCs/RCCs/NMHSs Needs*
- **Submitted the results of verification for pre-designated for GPC(2006)**
- **GPC Seoul (KMA) was officially designated for the Global Producing Center at THE EXTRAORDINARY SESSION OF THE COMMISSION FOR BASIC SYSTEM 2006 (CBS-Ext.06) held in Seoul on November 2006 (Refer to WMO-No. 1017)**
- **Opened the GPC Seoul officially (1 July 2007)**