



# Introduction of Meteorological Data Service of NMIC, CMA

Meteorological Data Management Section, NMIC

NOV. 2014



- Datasets Catalog
- Data Service Platform
- Data Service Policy
- Service Operation
- Statistics of Service

# 1. Datasets Catalog



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National Meteorological Information Centre

## Obs. Networks from 19

- ❑ *Surface*
- ❑ *Upper-air*
- ❑ *Marine/Ocean*
- ❑ *Solar Radiation*
- ❑ *Satellite*
- ❑ *Radar*
- ❑ *Baseline Atmosphere*
- ❑ *Acid Rain*
- ❑ *Agro-Meteorol.*

❑ .....

CMA has established an integrated meteorological observation network based on space-based, airborne and ground-based observing systems.



# Developed Datasets

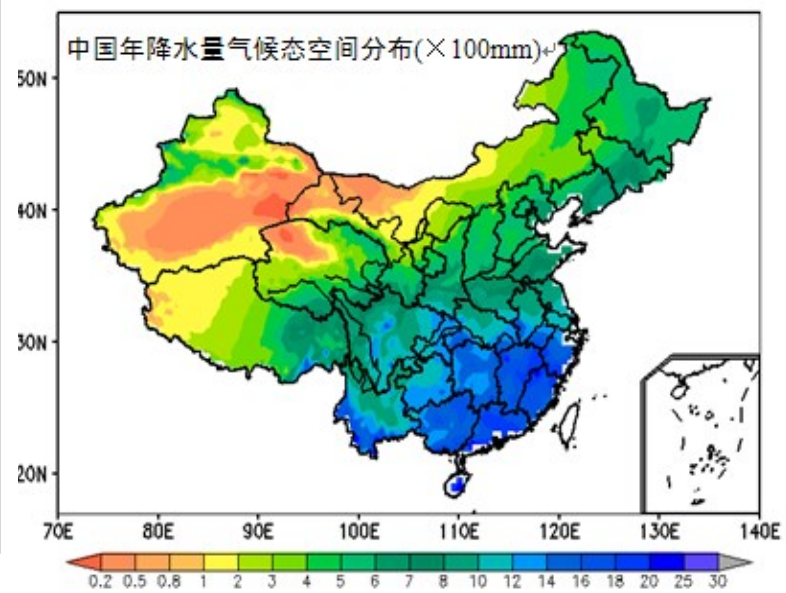
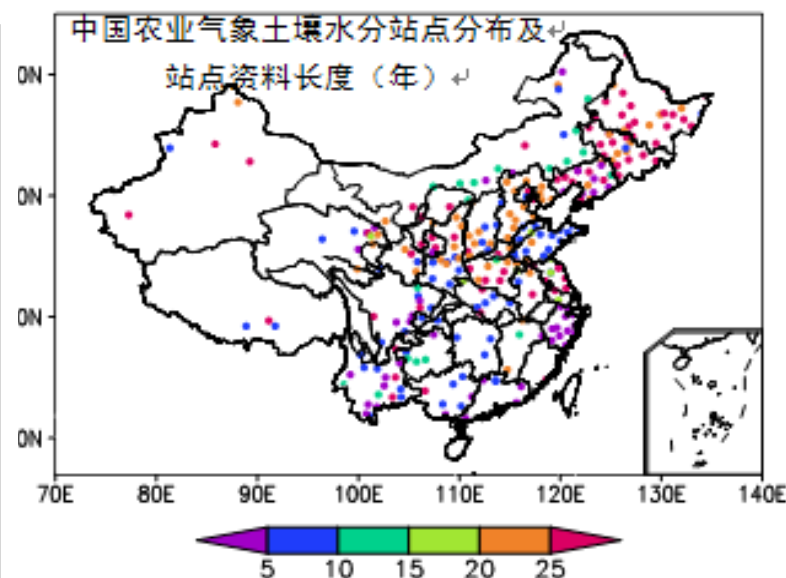


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## Developed Datasets:

Over 100, 14 types, 2000GB

- ❑ *Surface data*
- ❑ *Upper-air data*
- ❑ *Solar Radiation data*
- ❑ *Agricultural Meteorol. data*
- ❑ *Grid products*
- ❑ *Merge and Analysis prod*
- ❑ .....





## Publications:

- ❑ *Monthly Surface Climatic Data Report*
- ❑ *Monthly Upper-air Climatic Data Report*
- ❑ *Yearly Solar Radiation Climatic Data Report*
- ❑ .....



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CDC-SURF-2014-03



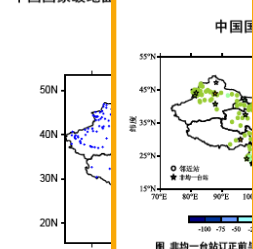
## 中国地面气候资料月报 (2014年3月)

Monthly Surface Climatic Data Report, China  
Apr. 2014



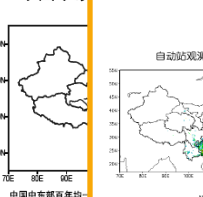
国家气象信息中心资料服务室  
World Data Center for Meteorology (Beijing)

中国国家级地面



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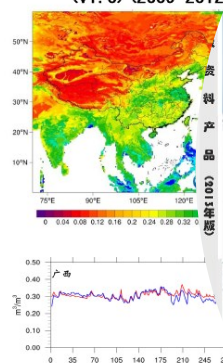


中国地面



自动站观测

CLDAS 土壤湿度分析产品  
(V1.0) (2009-2012)



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2013年11月

## 基础气象资料产品 (2013年版)

## 用户手册



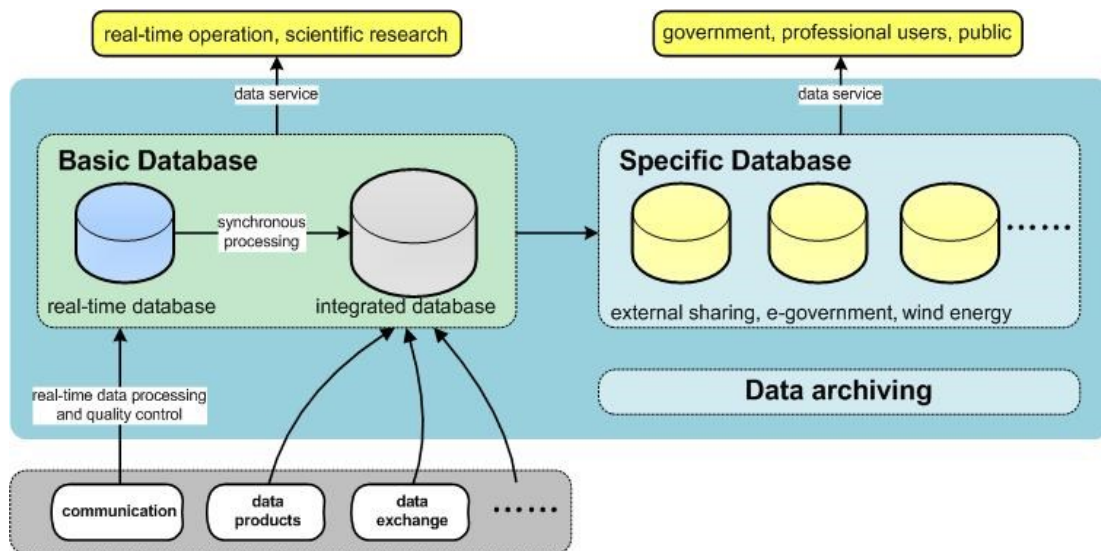
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# 2 Data Service Platform

## MDSS: Meteorological Data Storage System

- Since 1999, CMA began to program the construction of the MDSS, which started operation in June, 2005.
- And we update new system in 2013.

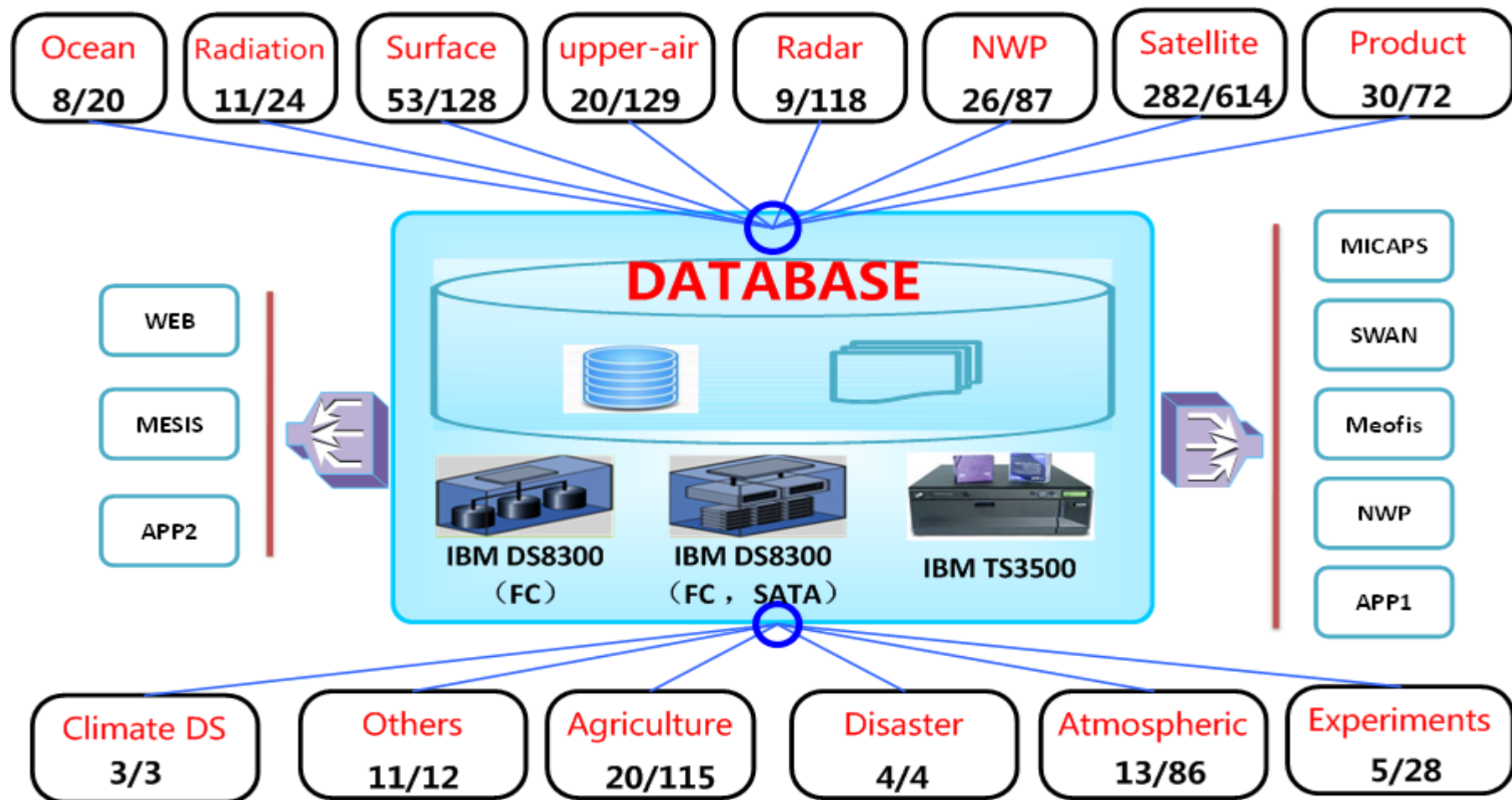


# 2 Data Service Platform



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**CIMISS: CMA Integrated Meteorological Information Service System**  
upgrade system of MDSS, Plan to operation 2014.  
32 DB including one national DB(NMIC) and 31 provincial DB.



# 3.Data Service Policy

- Principle of Sharing data classification;
- Free and Open to the public

Data Level	Data Level Definition	Users/Sharing Condition
<i>Level-0</i>	Basic Meteorological Data (Real Time)–WMO40	Free and open to the public without restrictions: Meteorological operational Users Government Departments Public Welfare Non-Public Welfare
<i>Level-1</i>	Basic Meteorological Data (History)–WMO40	Free and open to the public with restrictions: Meteorological operational Users Government Departments Public Welfare Non-Public Welfare
<i>Level-2</i>	Except Basic Meteorological Data	Free and open to the public with restrictions: Meteorological operational Users Government Departments Public Welfare





# 3.Data Service Policy

## ● *Restrictions*

**Customers who gets data are the final users.**

Data can't **be used in commercial activities**

Data can't **be offered to others**

Data can't **be transferred to foreign countries**

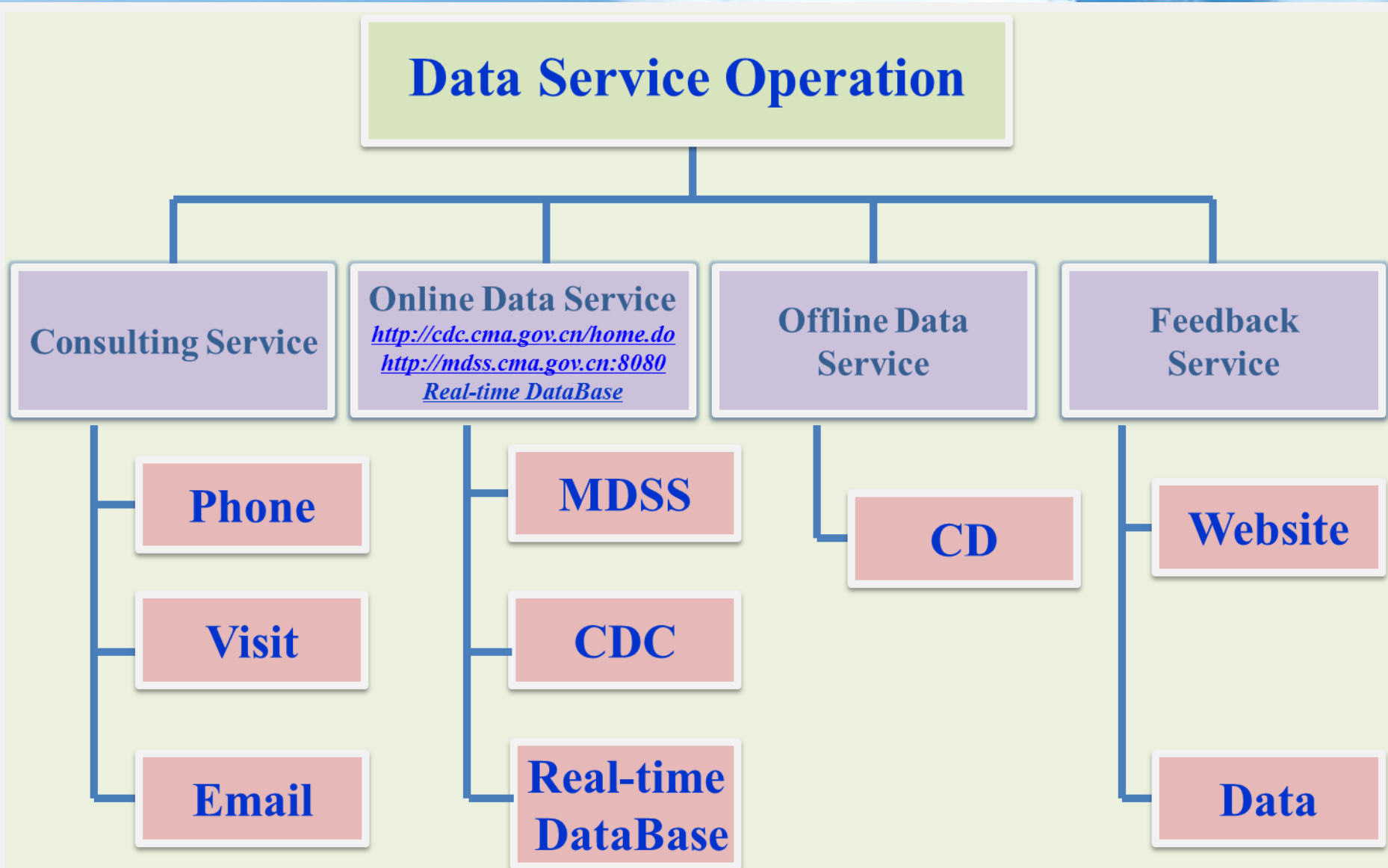
## ● *Development*

**CMA is modifying data service policy, and we will share more data to the public .**

# 4. Services Operations



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# 4. Services Operations

## Consulting Service



**Phone**



**On duty**



**Email**

**FAX**



**Visit**



## Online & offline Service

### Online Service Pattern (OSP)

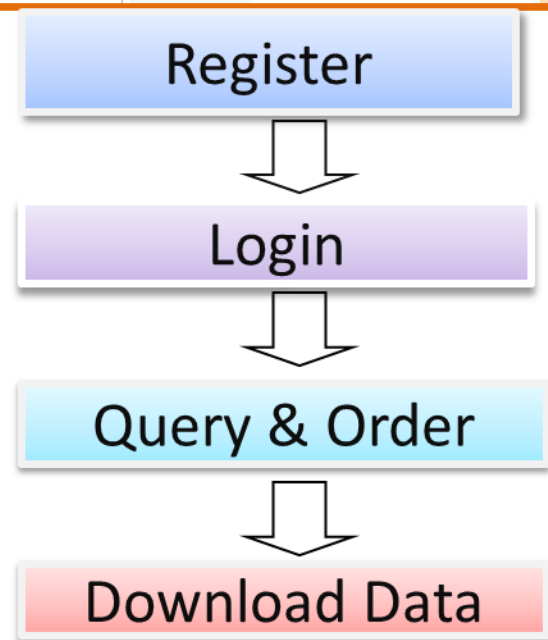
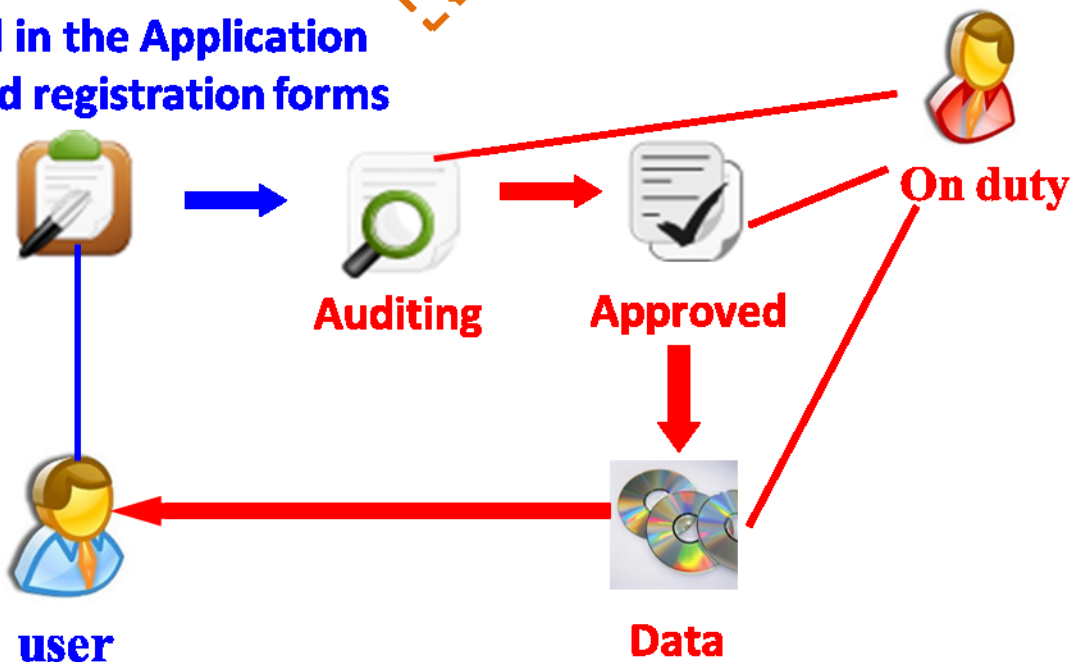
Via <http://cdc.cma.gov.cn/>, <http://mdss.cma.gov.cn:8080>

### Offline Service Pattern (OFSP)

via CD...



Fill in the Application and registration forms





# National Meteorological Operation Network

# China Meteorological Data Network



# Users consist of :



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## ❑ Meteorological operational Users

- NMC ( National Meteorological Centre )
- NCC ( National Climate Center )
- PSC, CMA(Public meteorological Service Center)
- ...

## ❑ Government Departments

- Ministry of Agriculture, Environmental Protection
- ...

## ❑ Public Welfare

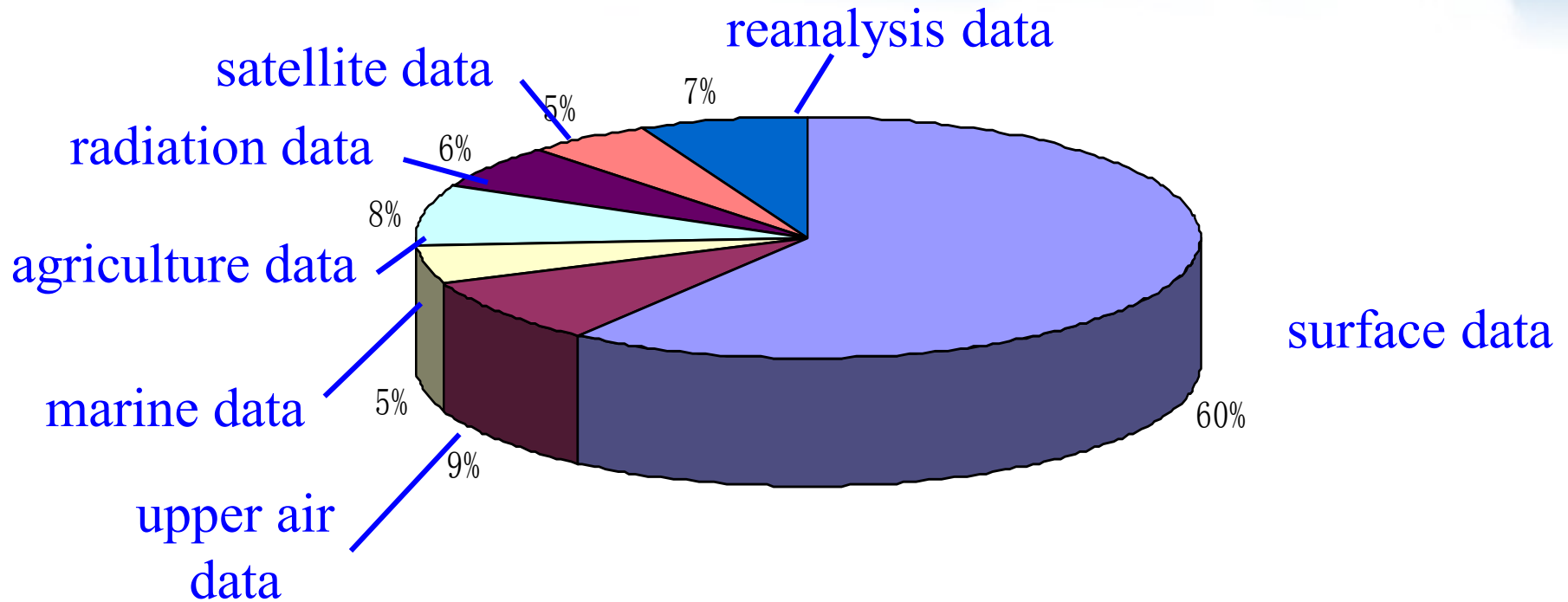
- Science Researcher ( Climate Change, Global Warming... )
- ...

## ❑ Non-Public Welfare

- Industry ( Mining, Building, Retail, Finance... )
- ...

# 5.Data Service Statistics

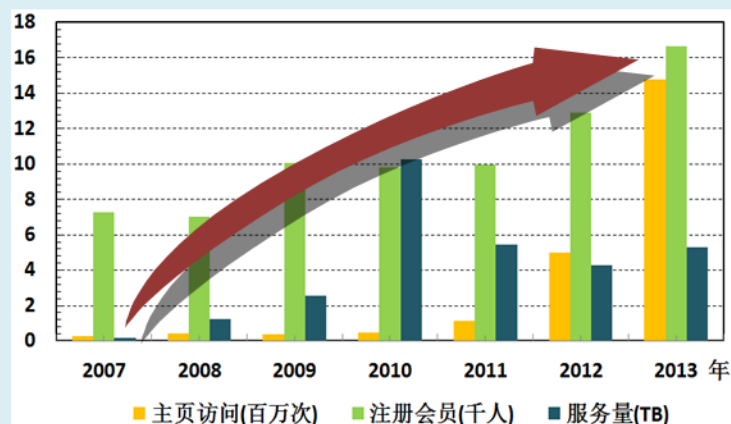
## Data Download Frequency



# 5.Data Service Statistics

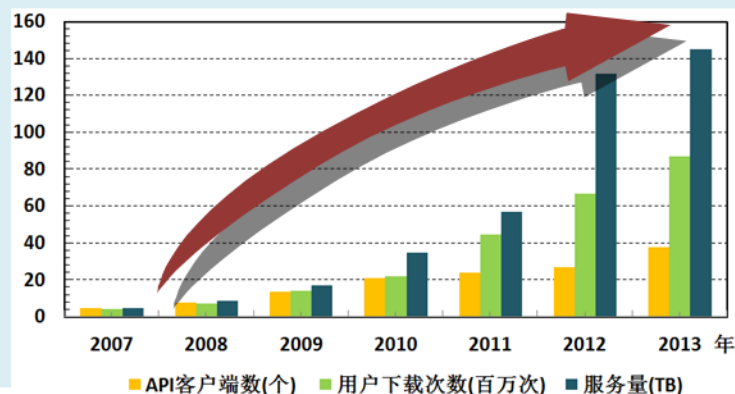
**The numbers of data services from 2007 to 2013.**

## ➤ Web services(eq.CDC)



year	Visits (million)	Users (thousands )	Download Data(TB)
2007	0.28	0.38	0.13
2013	14.75 ↑	16.62 ↑	5.3 ↑

## ➤ API Client services(eq.MDSS)



year	Clients	Download Frequency (million )	Download Data(TB)
2007	5	4.6	4.8
2013	38 ↑	87.4 ↑	145.2 ↑





# Thank you!

## Any Questions and Comments.