



Asia-Pacific Climate Information Network through APCC Services



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ICPT TTA on “Statistical Methods in Seasonal Prediction”
9 August 2010



APCC Projects

: Sharing Climate Information and Technology



CLIK - Climate Information Tool Kit
a powered on-line tool helping peoples and Nations in
the fight against climate disasters



ADePt - Asia Pacific Data Exchange Portal



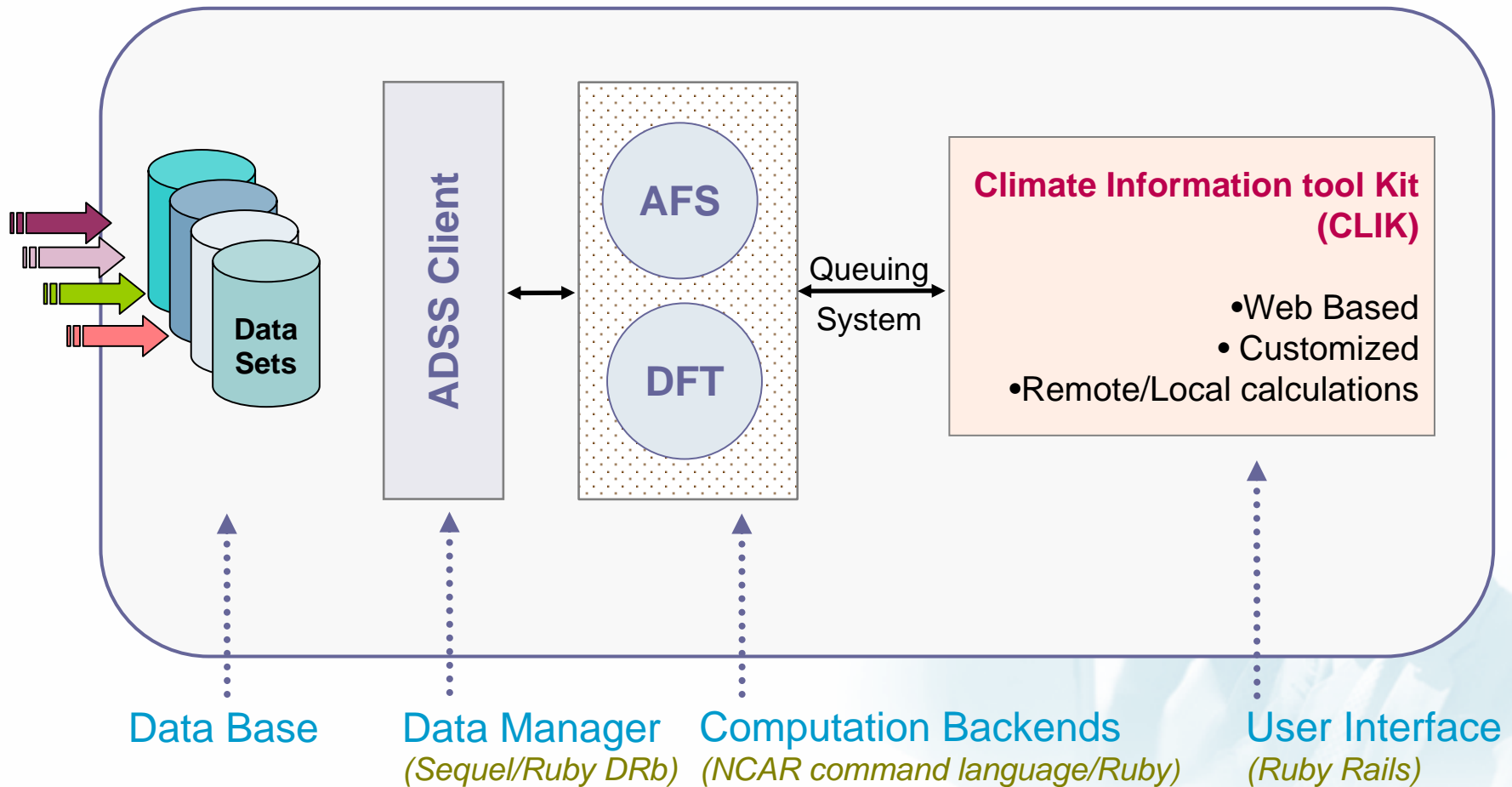
TRACE - Virtual Climate Center
Tracking climate and environmental changes

How CLIK aids climate forecasters and decision makers

- Gives climate forecasters a **user-friendly way to create a state-of-the-art forecast for their country**
- Allows forecaster to experiment with **various combinations to find the best forecast**
- Will have large impacts on how climate forecasts are made in developing economies of the world (that lack modern climate prediction systems)

CLimate Information tool Kit (CLIK)

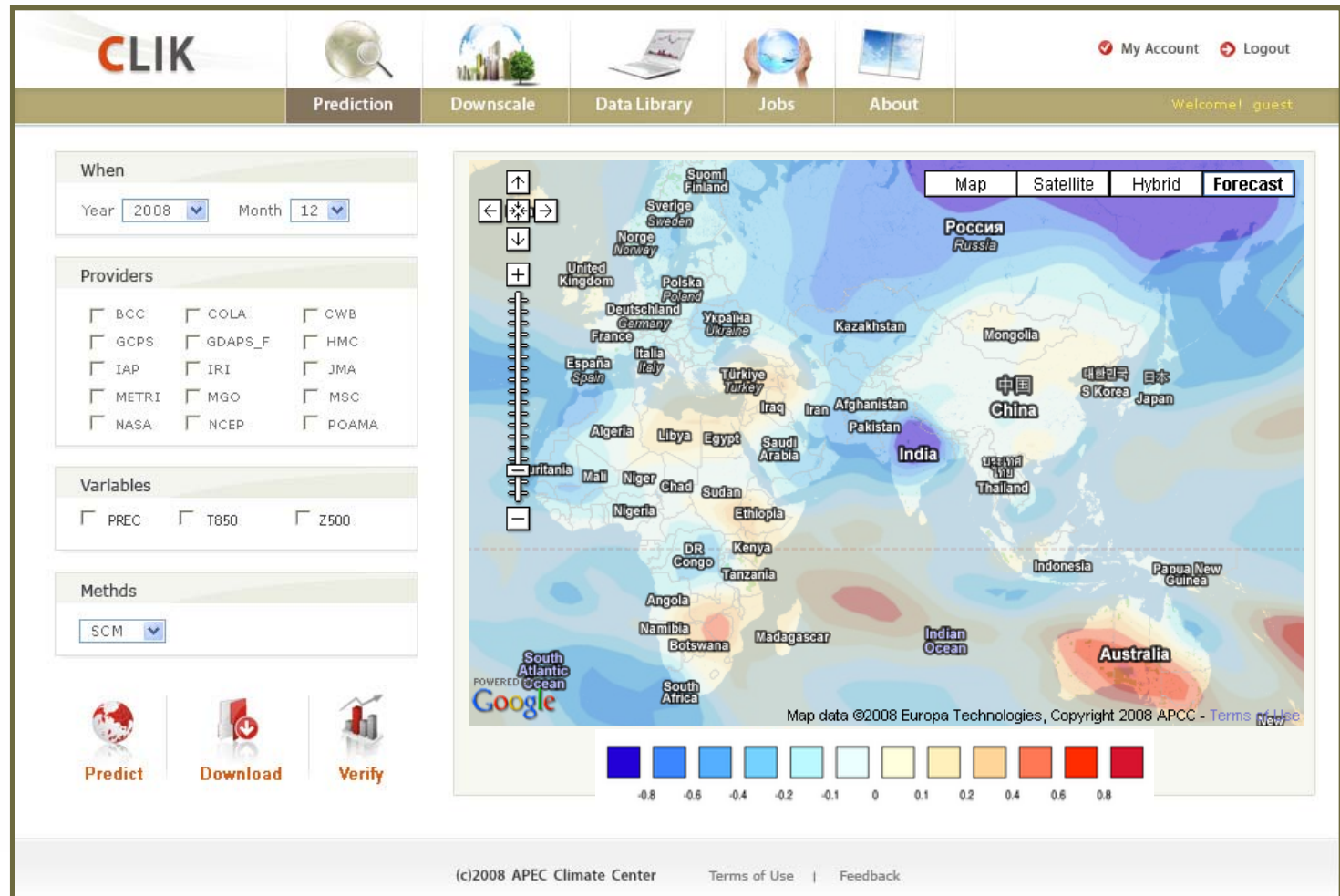
APCC Climate Application System



Users make optimal forecast through user friendly interface

Available at <http://clik.apcc21.net>

**Customized
Multi-Model
Ensemble
Prediction**



Time consuming jobs are off-loaded to backend (Queue system)

Available at <http://clik.apcc21.net>

List of the submitted job task

The screenshot displays the CLIK web application interface. At the top, there is a navigation bar with the CLIK logo and several menu items: Prediction, Downscale, Data Library, Jobs, and About. On the right side of the navigation bar, there are links for 'My Account' and 'Logout', and a 'Welcome! guest' message. Below the navigation bar, there is a table listing submitted jobs. The table has columns for JOB ID, PRED. ID, USER, STATE, CREATED, UPDATED, and ACTION. Below the table, there is a pagination control showing 'Total:120 Page1/12' and a page number '1' with a '2' next to it. To the right of the table, there are two detail panels: 'JOB DETAIL' and 'PREDICTION DETAIL'. The 'JOB DETAIL' panel shows fields for USER, STATE, USER, CREATED AT, and UPDATED AT. The 'PREDICTION DETAIL' panel shows fields for ID, PROVIDERS, YEAR / MONTH, VARIABLE, and METHOD. At the bottom of the page, there is a footer with the text '(c)2008 APEC Climate Center' and links for 'Terms of Use' and 'Feedback'.

JOB ID	PRED. ID	USER	STATE	CREATED	UPDATED	ACTION
117	105	jin-young	submitted	2009-01-22 01:02:32	2009-01-22 01:02:32	Detail
116	104	jin-young	finished	2009-01-21 03:44:09	2009-01-21 03:44:09	Detail
115	103	jin-young	finished	2009-01-21 00:47:50	2009-01-21 00:47:50	Detail
114	102	jin-young	finished	2009-01-21 00:47:37	2009-01-21 00:47:37	Detail

Total:120 Page1/12 | 1 2

JOB DETAIL

USER	117
STATE	submitted
USER	jin-young
CREATED AT	2009-01-22 01:02:32
UPDATED AT	2009-01-22 01:02:32

PREDICTION DETAIL

ID	105
PROVIDERS	0203040508101314
YEAR / MONTH	2007 / 1
VARIABLE	T850
METHOD	SCM

(c)2008 APEC Climate Center Terms of Use Feedback

Status of climate data can be checked or updated

Available at <http://clik.apcc21.net>

Data Library
for available
models

The screenshot shows the CLIK Data Library website. The header includes the CLIK logo, navigation icons for Prediction, Downscale, Data Library, Jobs, and About, and user options for My Account and Logout. The main content area features a table of climate data providers and a 'Status of Update' box.

Provider	Economy	Start Year	End Year	Variables	Model Designation	Ensemble
BCC	China	1983	2006	PREC T850 Z500	NCC CGCM T63L16	8
COLA	U.S.A.	1981	2008	T2M PREC MSLP T850 U850 V850 U200 V200 Z500 OLR	COLA AGCM v2.2.5 T63L18	10
CWB	Chinese Taipei	1979	2008	T2M PREC MSLP T850 U850 V850 U200 V200 Z500	CWB T42L18	10
GCPS	Republic of Korea	1979	2008	T2M PREC MSLP T850 U850 V850 U200 V200 Z500	GCPS T63T21	4
GDAPS_F	Republic of Korea	1979	2008	T2M PREC MSLP T850 U850 V850 U200 V200 Z500	GDAPS T106L21	20

Total:120 Page1/12 | 1 2

Status of Update
recent update status of providers

- **Failure:**
COLA, JMA
- **Success:**
POAMA, NASA, BCC, GCPS

Update All

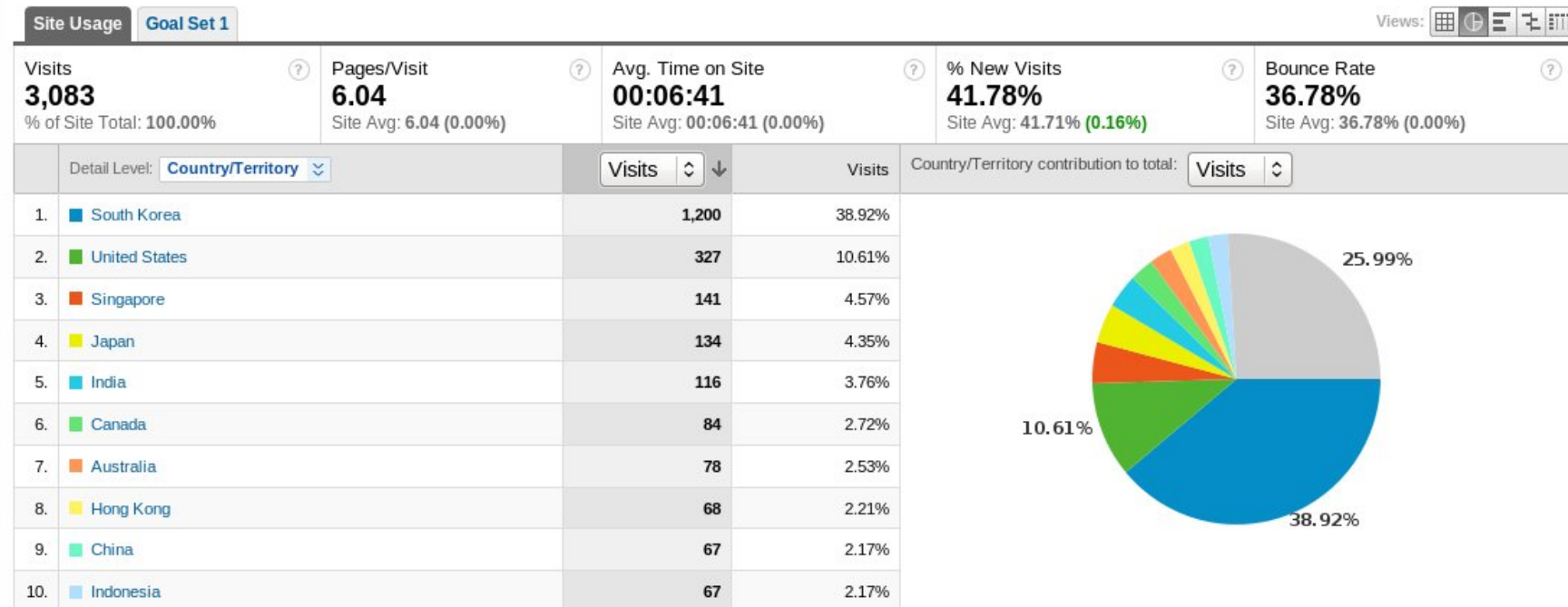
(c)2008 APEC Climate Center | Terms of Use | Feedback

CLimate Information tool Kit (CLIK)

- **Web Statistics** : 2009.04.04 ~ 2010.07.25

3,083 visits came from 77 countries/territories

Detail Level: [City](#) | [Country/Territory](#) | [Sub Continent Region](#) | [Continent](#) Dimension: [None](#)



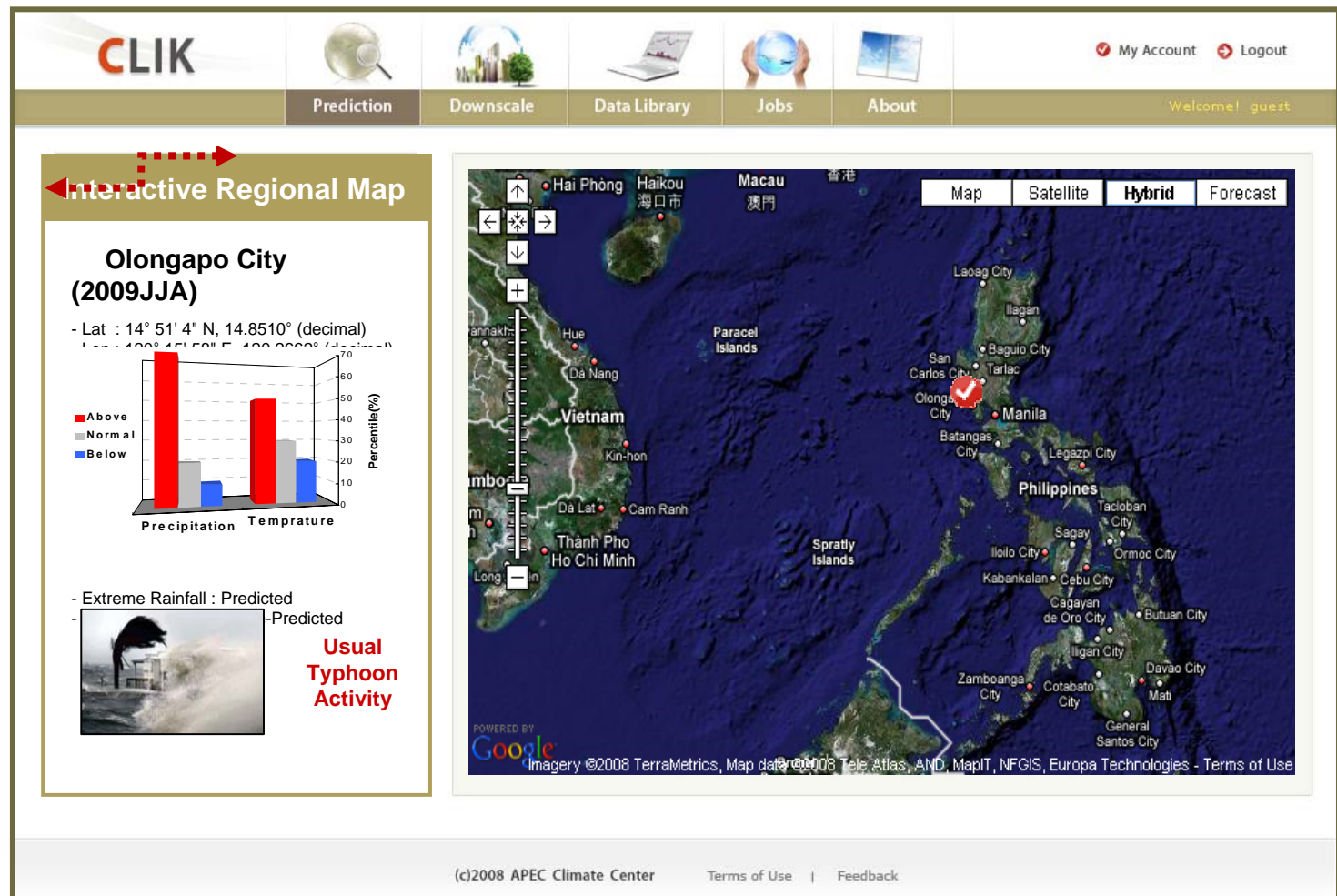
provided by <http://www.google.com/analytics>



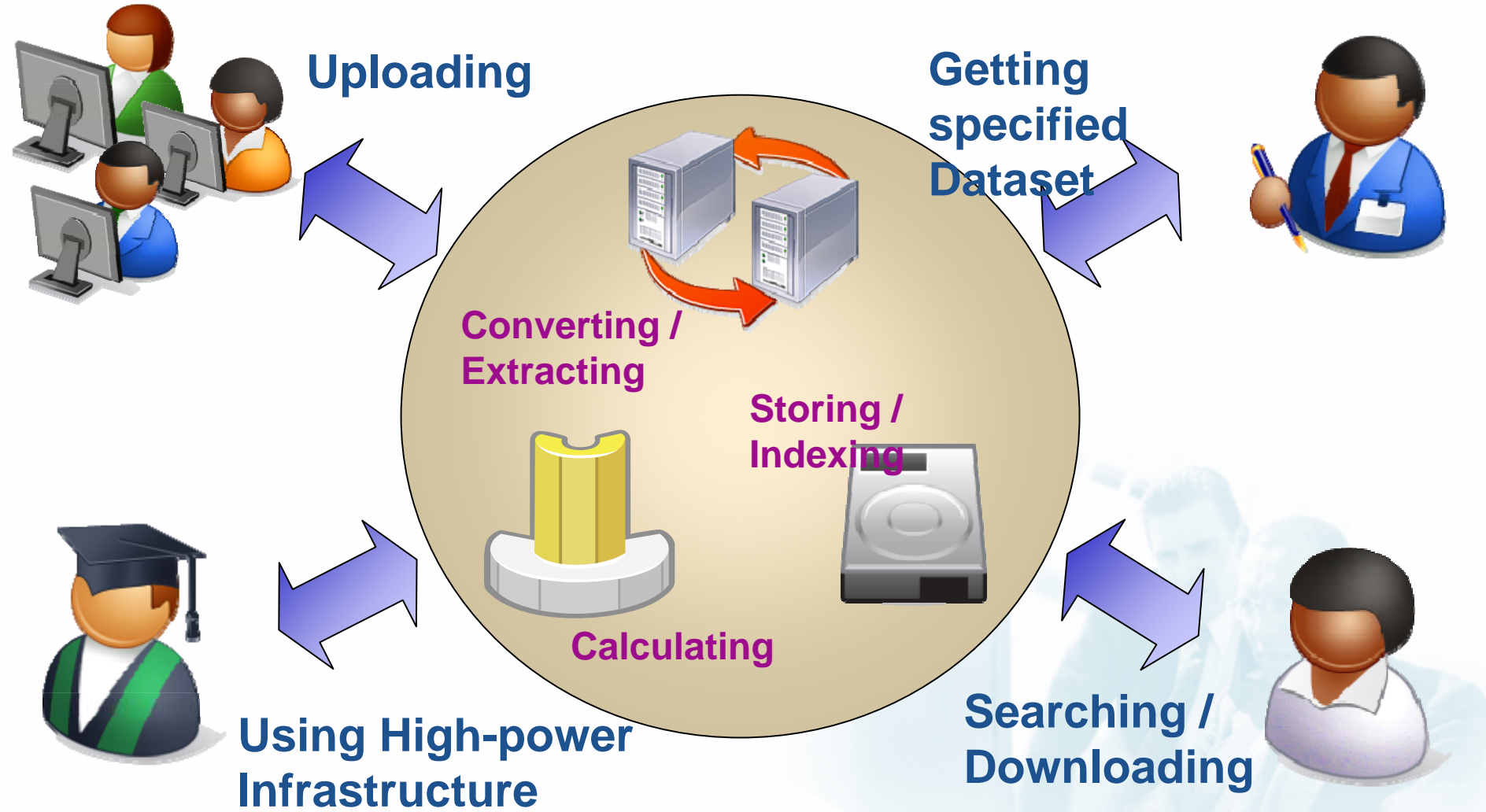
CLIK version 2.0 (available in 2011) will provide

Will be available at <http://clik.apcc21.net>

Station-based Regional Climate Prediction

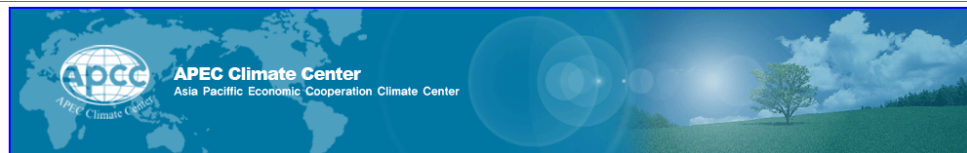


Asia Pacific Data Exchange Portal



APCC Data Service System (ADSS)

- Access to <http://cis.apcc21.net>
- **Register user only**
(Plz. inform cis@apcc21.net of your registration to activate)



Welcome to jeenie7 | [Logout](#) | [Register](#) | [Contact Us](#)

APCC Data Service System (ADSS)

The APEC Climate Center Data Service System was developed for real-time climate monitoring and provision of digital data service to APEC member economies. This system underscores the role of APCC in playing an important role as a hub of climate data and services in the region. The main objective of the ADSS is to provide a comprehensive set of models and observational climate data to various researchers and users to establish a scientific basis for climate prediction. ADSS also aims to monitor climate information using near real-time in-situ observation and prediction data in a standardized and accessible format for various users.

Currently Available Data Set

	Info	OPeNDAP	FTP
Observations	NCEP	Info	OPeNDAP
	NCEP_SFC	Info	OPeNDAP
	NOAA_OLR	Info	OPeNDAP
	TMI	Info	OPeNDAP
	QuikScat	Info	OPeNDAP
	GPCP	Info	OPeNDAP
	GHCN	Info	OPeNDAP
Predictions	UD	Info	OPeNDAP
	MME	Info	OPeNDAP
	INDIVIDUAL MODEL	Info	OPeNDAP

Today 11 Total 29637



APEC Climate Center National Pension Corporation Busan Bldg.
Yeonsan 2(i)-dong Yeonje-gu Busan 611-705 Korea. Tel.82-51-868-7470-2

- **Data Collection:** climate observations and predictions
- **Good and stable** data proving system based on **OPeNDAP (a.k.a DODS) protocol** and Java web technology
- **Inconvenient** features in downloading and sharing data like **cross-over downloading** among several models



ADePT in planning stage
: new web system with higher usability and flexible interface



Data Download

Climate Data Services at APCC

1. Data Center - Climate and Forecast data are available at <http://cis.apcc21.net>.
2. CLIK - Climate Information Toolkit for customized prediction and downscaling, available at <http://clik.apcc21.net>.
3. Registration may be needed to access some of the above services.

Terms of Data Use:

1. The multi-model ensemble and individual model data are provided for use in academic research.
2. APCC and model data providers should be acknowledged in publications, press releases or operational products which utilize any of the model data.
3. Redistribution of the model datasets is prohibited, without permission from the model holders.
4. Registered users should provide their names, affiliations, contact information and purpose of data use. Users' information will be passed to model data providers for their record.

How to access the data

OPeNDAP:

1. Data server architecture that allows users to use data files that are stored on remote computers with their favorite analysis and visualization client software
2. Opening an OPeNDP file is as easy as entering an OPeNDAP URL into the interface of the client software where it expects a local file name to be entered
3. Every NetCDF data files are available via OPeNDAP which handles transport, translation and subsetting data

Advantages using an OPeNDAP:

1. They can use familiar data analysis and visualization packages like GrADS, Matlab, Ferret, and etc., as if the data were on your computer
2. They can feel free without worrying about data storage, formats, translating them on-the-flight, if necessary
3. It will be possible to access only the data of interest (extracting geographical area, time series, etc.)

How to access the data

Client Software

1. To use data files on your desktop computer via OPeNDAP, you must first obtain an OPeNDAP enabled client program
2. Currently, there includes: **NCL, GrADS**, NCO, IDL, Ferret, MATLAB
3. The command **dncdump** will do the ncdump on a NetCDF DODS URL

How to access OPeNDAP Data Files at ADSS:

1. Install an OPeNDAP client
2. **Browse the collection** through the following link: <http://cis.apcc21.net>
 - (1) This lists a number of subdirectories under which you can find NetCDF data files
 - (2) Find the data file of interest
 - (3) The browser returns information about the products
3. **Copy the OPeNDAP URL of the file** to your client software

Example Usage

- **Downloading NOAA_OLR/Daily data using client software to your computer**

- **Grads:**

```
gradsdods -cl 'sdfopen http://cis.apcc21.net:8080/opendap/NOAA_OLR/Daily/Anomaly/2010/olr.nc'
```

```
set lat -30 30  
set lon 40 120  
set gxout fwrite  
set fwrite olr.dat  
set t 1 last  
d olr
```

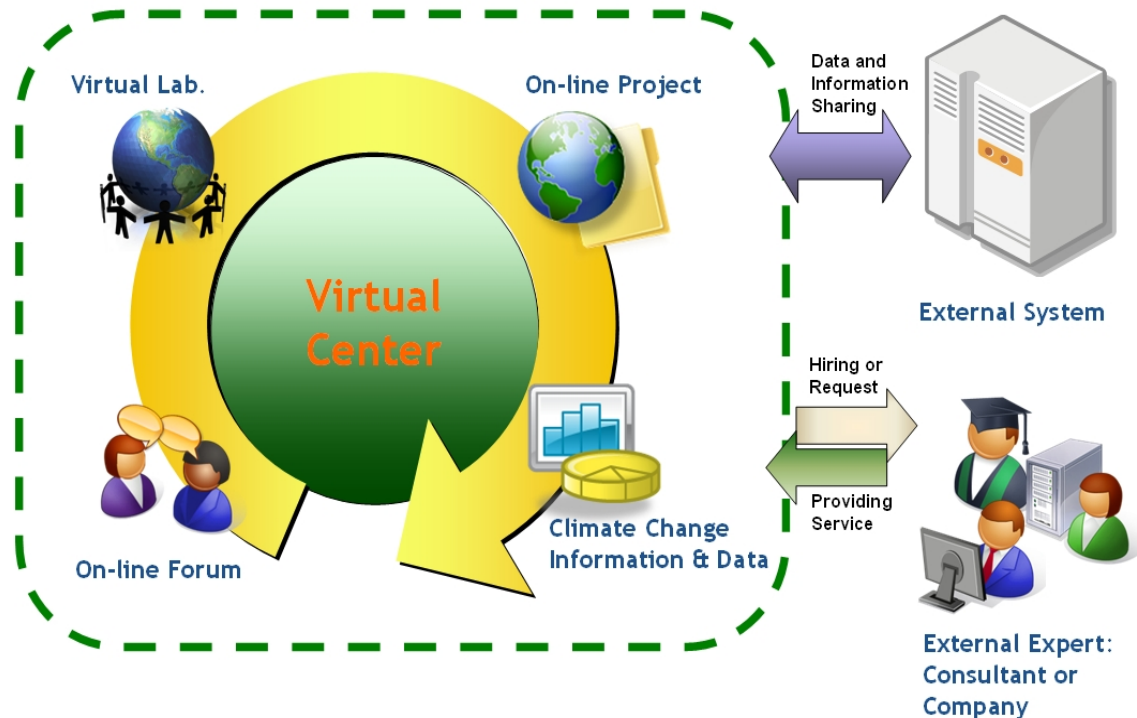
- **NCL:**

```
fin=addfile("http://cis.apcc21.net:8080/opendap/NOAA_OLR/Daily/Anomaly/2010/olr.nc","r")
```

```
olr=fin->olr(time |:,{lat | -30:30},{lon | 40:120})  
fout=addfile("olr.nc","c")  
fout->olr=olr
```


Virtual Climate Center

- Available at <http://trace.apcc21.net/>



- **Web Information Portal** about climate and environmental changes
- **Virtual playground** for scientists and policymakers



- **Create** online forums and networks for better communication
- **Showcase** their research and findings about climate change adaptation and climate predictions
- **Utilize** long term prediction data in APEC regions to avert disasters and be prepared

TRACE



TRACE

Tracking Climate and Environmental Changes



About us

Resources

Guest Articles

Trends

You Report

Sitemap



APCC Virtual Center

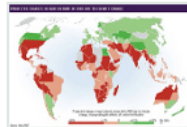
Guest Article



Links between Poverty and Environment

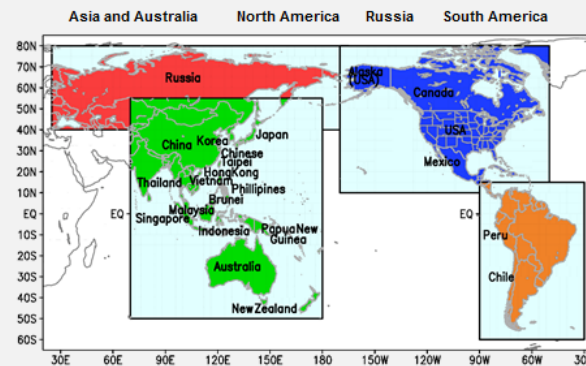
Angela M. Lusigi (PhD)
UNDP/UNEP Poverty and Environment Initiative Africa
UNEP Division of Regional Cooperation

Trends



Climate Change Projections in APEC Regions & Economies

- Project Summary
- Tables



- Australia
- Brunei Darussalam
- Canada
- Chile
- China
- Hong Kong
- Indonesia
- Japan
- Korea
- Malaysia
- Mexico
- New Zealand
- Papua New Guinea
- Peru
- Philippines
- Russia
- Singapore
- Chinese Taipei
- Thailand
- USA

News / Events

[CNN]135 dead in China flooding July 15, 2010

The death toll rose to 135, with 41 others missing, as "the worst flooding in years"

[Reuters]BP says test shuts off oil leak from Gulf well

BP Plc said on Thursday no oil was leaking into the Gulf of Mexico for the first time since its huge spill began in April as it

[Reuters]Storms aggravate damage from Gulf oil spill

Summer storms are pushing oil from a BP spill in the Gulf of Mexico deeper into Louisiana's wetlands and temporarily slowing efforts to

[The Independent] Hurricane Alex weakens but leaves destruction in its wake

Hurricane Alex weakened to a tropical storm yesterday as it moved further inland over north-eastern Mexico, dumping heavy rains that

[msnbc]Severe



APCC, Haeundae, Busan, Republic of Korea

Thank You.

