

Usage of Data contributed by members and future plans

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APCC

Open Data Policy and its implementation

- WG meeting held in Busan during 2007 approved release of individual model data to registered users for non commercial research or climate forecast operations
- APCC setup the following to redistribute the data
 - Web based openDAP/http/ftp service from 2008
 - Climate Information Tool Kit, Mar 2009
 - Command line client, DEX, Mar 2009

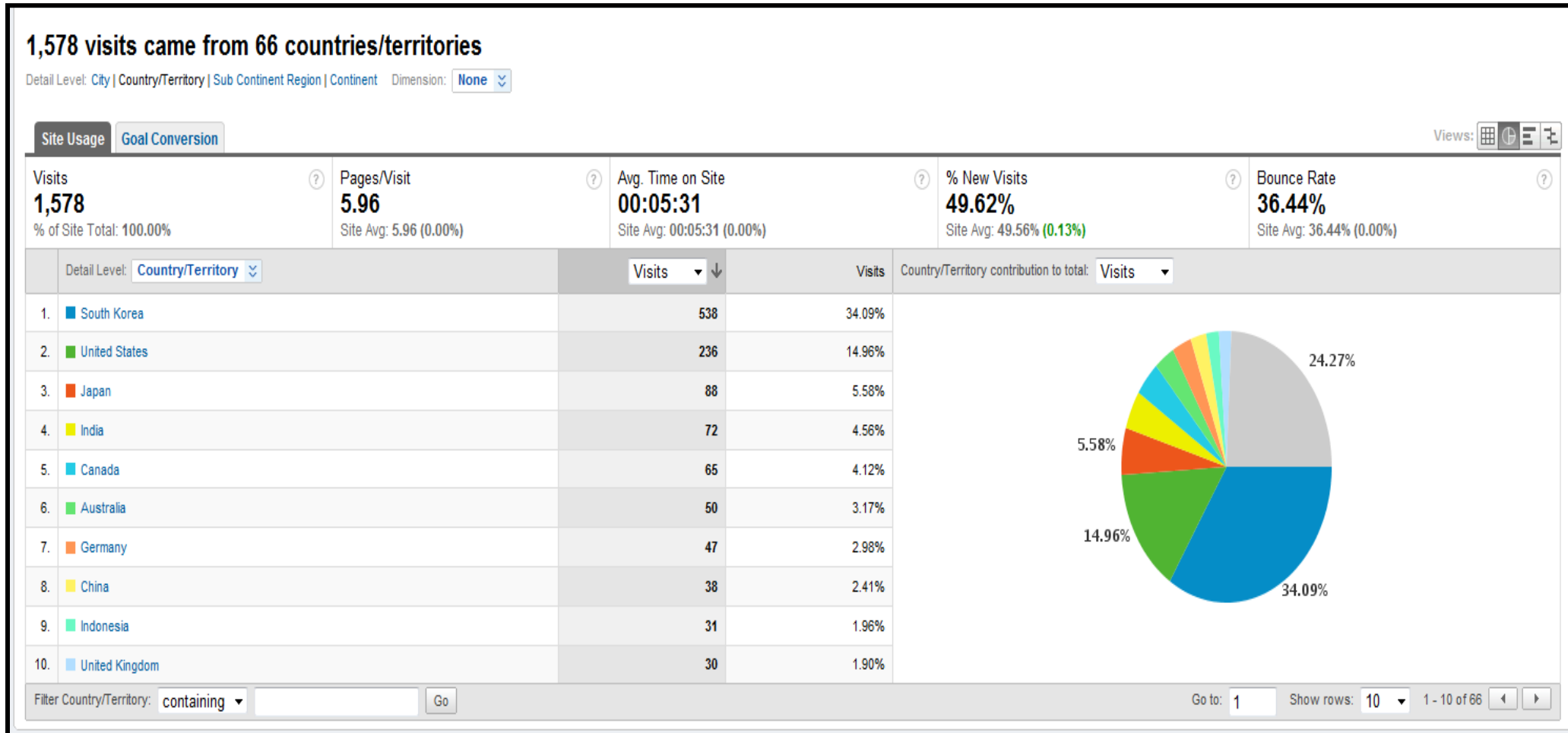
Usage – Data Server



11,950 downloads in 2009

Usage - Climate Information tool Kit

- **Web Statistics** : 2009.03.06 ~ 2009.07.10



CLIK Statistics - City

- **Web Statistics** : 2009.03.06 ~ 2009.07.09



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

CLIK Users

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List of research work using WG contributed seasonal forecast data

Paper/Publication

• Seasonal forecast

- Min et al. (2009): A probabilistic multimodel ensemble approach to seasonal prediction, W&F
- Sohn et al. (2009): Leading modes of East Asian winter climate variability and their predictability: An assessment of the APCC multi-model ensemble, JGR (revision)
- Song et al. (2009): Predictability of the Western North Pacific Summer Monsoon in APEC Climate Center Multi-Model Ensemble, JMS (revision)
- Nohara (2007): Seasonal Forecast Based on Multi-Model Ensemble Provided by APEC Climate Center, Tenki

• Statistical downscaling

- Chu et al. (2008): Seasonal forecast for local precipitation over northern Taiwan using statistical downscaling, GRL
- Kang et al. (2007): Multimodel output statistical downscaling prediction of precipitation in the Philippines and Thailand, GRL
- Kang et al. (2007) :Error analysis of dynamical seasonal predictions of summer precipitation over the East Asian-western Pacific region, GRL
- Kang et al. (2009): Statistical downscaling of precipitation in Korea using multi-model output variables as predictors, Mon Wea Rev.

Bulletin/Outlook/Talk

- APCC model diagnostic bulletin (APCC)
- Experimental bulletin for APCC global extreme drought/flood monitoring (APCC)
- Experimental outlook for APCC 6-month 1-tier MME forecasts (APCC)
- Outlook for 2009 drought in spring season over Korea (Dr. Kwon, KICT)
- Optimal multi-model ensemble model development using Hierarchical Bayesian model based, KWRA (Dr. Kwon and APCC)
- Development of multi-ensemble GCMs based spatio-temporal downscaling scheme for short-term prediction, KWRA (Dr. Kwon and APCC)

List of research work using APCC data

International cooperation

- CRIEPI for exploring energy forecasts: application of seasonal forecasts to predict the electricity demand in Japan
- FSU : Assessment and analysis of multi-model climate forecast skill and predictability for the southeast United States
- APN/KOICA participants explored APCC data
 - 2007: KOICA 5 participants from Indonesia, Mongolia, Peru, Philippines and Vietnam
 - 2008: KOICA 9 participants from Indonesia, Mongolia, Peru, Philippines, Vietnam and Thailand, APN 4 participants from Russia, Philippines, Thailand and Vietnam
- Hong Kong, Viet Nam, Mongolia – for operational consultation/assessment of skill

Data enhancement request and support

- Users have requested for additional data at multiple levels
- Support of Climate Historical Forecast Project
 - WCRP has designated APCC as a distributed data center for CHFP.
 - APCC to collect and provide experiments from this WG
- Extreme Event Predictability Experiments
 - Long lead and ISV predictability

Data Server Enhancements

- APCC has procured a few data servers and storage servers to support additional data distribution
- Developing a next generation Web based Data Serving Application to redistribute data
 - Users can carry out basic calculations before downloading the data
 - Regular services such as OpenDAP, ftp, http also will be supported

Sharing Observed Station Data

- Observed climate data at station level is useful for climate predictability, extreme event assessments and for developing downscaling strategies
- To enhance collaboration while honouring data distribution policies, we would like to suggest sharing of derived data, such as those of extreme event indices (ref. STARDEX project)