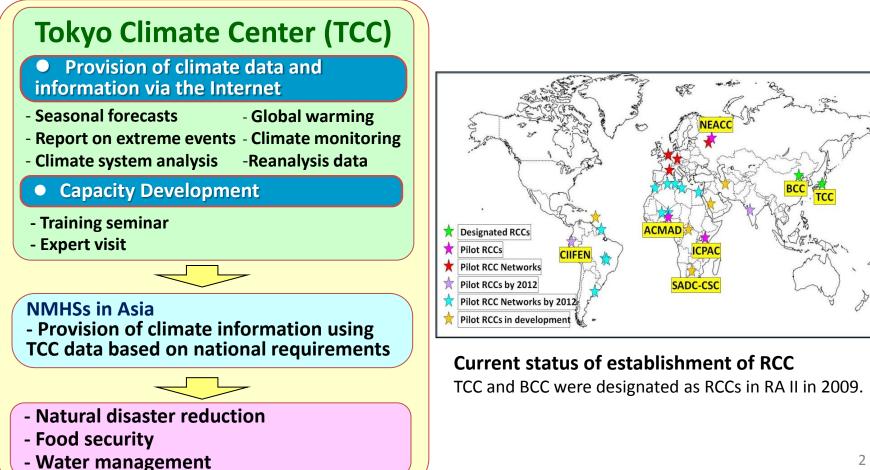
Introduction to Tokyo Climate Center and its activities

TCC Training Seminar on Global Warming Projection Information 26-30 January 2015

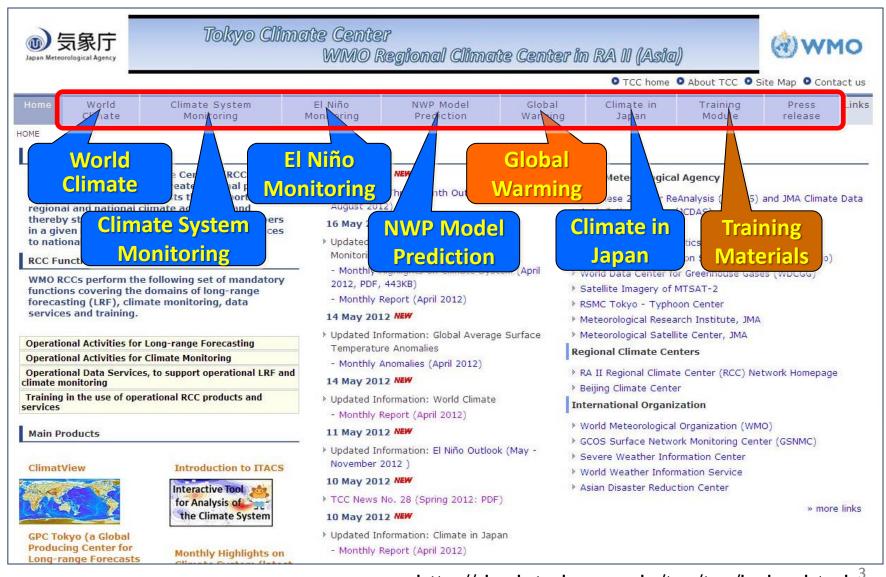


Tokyo Climate Center (TCC)

TCC serves as a WMO Regional Climate Center in the RA II. TCC supports NMHSs through <u>data/information provision</u> and capacity development activities.

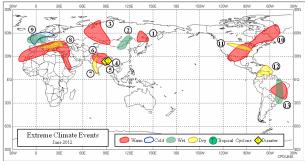


TCC website

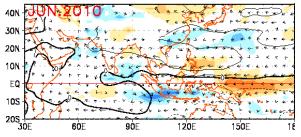


http://ds.data.jma.go.jp/tcc/tcc/index.html

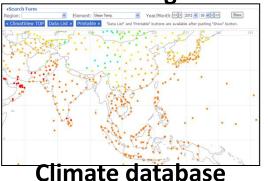
Examples of climate information, data and products

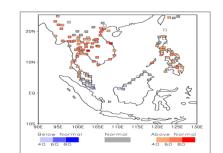


Monitoring of Extreme Climate Events

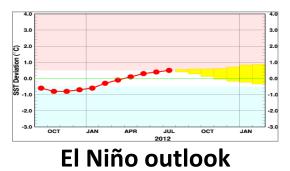


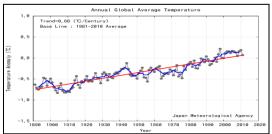
Asian Monsoon Monitoring



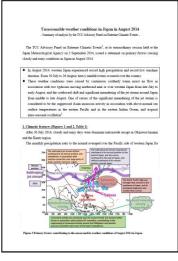


One-month Probabilistic Forecast for Southeast Asia

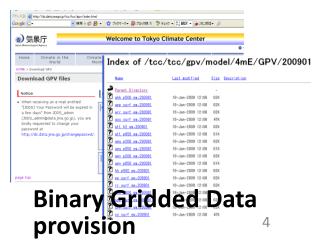




Global Average Surface Temperature Anomalies



Report on extreme climate event (Unseasonable weather conditions in Japan in Augut 2014)

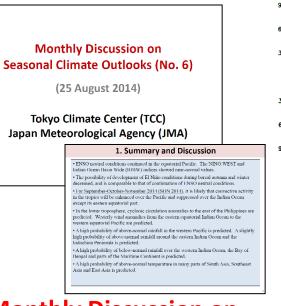


Examples of climate information, data and products

New duct! TCC launched 3 new products last year. 80'E 90'E 100'E 110'E 120'E 130'E 140'E 150'E 160'E OSTROV DIKSON - RUSSIAN FEDERATION (IN ASIA) Temperature 80'F May. 2014 Jul. 2014 11-20 Aug. 201-01-10 Jun. 2014 11-20 01-10 21-30 01-10 21-31 --Normal CPD/ INI

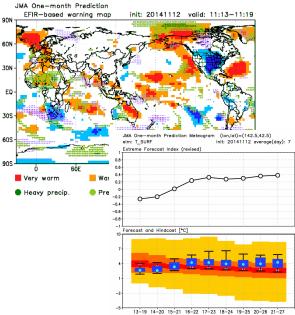
10-day/Half-monthly Temperature and Precipitation (Regional Map)

http://ds.data.jma.go.jp/t cc/tcc/products/climate/r map/rmap.php



Monthly Discussion on Seasonal Climate Outlooks

http://ds.data.jma.go.jp /tcc/tcc/products/mode l/monthly_discussion/la test.pdf



Early Warnings for Extreme Weather Event

http://ds.data.jma.go.jp /tcc/tcc/gpv/EFI/index.p hp (Password-Protected)

Provision of Climate Information - Global Warming Projection Information-

interval	product				
monthly	 Global Average Surface Temperature Anomalies Tred=0.72 	Onthly Global Average Temperature in December (C/Century) 1881-2010 Average			
seasonal	Global Average Surface Temperature Anomalies				
annual	 Global Average Surface Temperature Anomalies Summary of Global Average Surface temperature for the Climate Change Monitoring Report Press release 				
	$ \int t_{n} t$	surface temperature for the year 2014 (i.e. the temperature over land and the sea surface the 1981-2010 average, likely to become the 1891 (Figure 1). either) is still subject to change, because at the moment that was calculated based on temperature observations es for April, May, June, August, September and atures for the boreal spring, summer and autumn ly across much of Asia and Europe but also over			

http://ds.data.jma.go.jp/tcc/tcc/products/gwp/gwp.html

TCC Annual Training Seminar

As part of TCC's capacity-building activity in its role as RCC, TCC holds annual training seminars on the application of its climate monitoring and prediction products.

Each seminar deals with a different theme depending on TCC's progress in climate and analysis capabilities, such as the introduction of upgraded climate models.

	Theme	Participants					
Nov. 2008	Climate Information and Forecasting	13: China, Hong Kong, India, Indonesia, Iran, Korea (2), Lao, Malaysia, Mongolia, Philippine Thailand, Viet Nam					
Dec. 2009	Climate Analysis using Reanalysis Data	11: Bangladesh, Indonesia, Laos, Malaysia, Mongolia, Pakistan, Papua New Guinea, Philippines, Sri Lanka, Thailand, Viet Nam					
Jan. 2011	Application of Seasonal Forecast Gridded Data to Seasonal Forecast Products	19: Bangladesh, Hong Kong, Indonesia, Kazakhstan, Laos, Malaysia, Maldives, Myanmar, Nepal, Pakistan, Philippines (2), Qatar, Singapore, Sri Lanka, Thailand, Uzbekistan, Viet Nam					
Nov. 2011	One month Forecast Products	13: Bangladesh, Cambodia, Hong Kong, Indonesia, Laos, Malaysia, Mongolia, Myanmar, Pakistan, Philippines, Sri Lanka, Thailand, Viet Nam					
Nov. 2012	Climate Analysis Information	12: Bangladesh, Hong Kong, Indonesia (2), Laos, Malaysia, Mongolia, Myanmar, Nepal, Philippines, Sri Lanka, Thailand, Viet Nam					
Nov. 2013	Seasonal Forecast Products	16: Bangladesh, Cambodia, Hong Kong, Indonesia (3), Laos, Malaysia, Mongolia, Myanmar, Nepal, Papua New Guinea, Philippines, Sri Lanka, Thailand, Viet Nam					
Jan 2015	Global Warming Projection Information	13: Bangladesh, Cambodia, Indonesia, Hong Kong, Laos, Malaysia, Mongolia, Myanmar, Nepal, Philippines, Sri Lanka, Thailand, Viet Nam					
9.	Encaded construct Department to Internation provide for the internation provide for the internation encaded for the international of the internation encaded for the international of the internation encaded for the international of the internation						

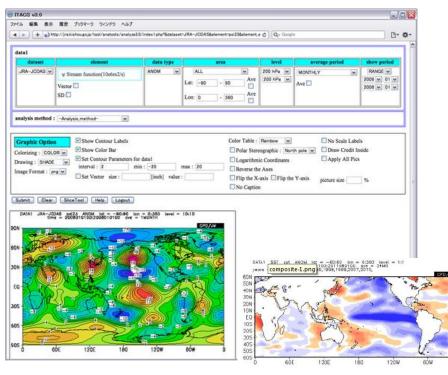




TCC Development tools and GPV

In the past training seminar on the application of climate monitoring and prediction products, TCC introduce several tools and various kind of GPV (Grid Point Value). TCC website also provides such useful tools and GPV just only for the registered NMHSs.

ITACS (Interactive Tool for Analysis of the Climate System) is a web-based application software for climate analysis.



1-month/3-month/seasonal prediction product (GPV) and its verification charts are available on the website.

Home	World Climate	Clim Syst Monite	em	El Niño Monitoring	NWP Model Prediction	Global Warming		Climate in Japan	Training Module	Press release	Link
HOME > Do	OME > Download Gridded Data										
Downl	oad Grid	lded Da	ta fil	es							
Notice			Main	Products							
 6 March 2014 The date of the provision of gridded data for One-month forecast has been changed from every Friday to every Thursday in association with the upgrade of One-month forecast model. 		NWP Model Prediction One-month (22 Jan 2015) > Daily Statistics > All Members Three-month (15 Jan 2015) > Statistics > All Members Seven-month (15 Oct 2014) > Statistics > All Members Statistical Downscaling for Three-mont > Indices and Gridded Data (15 Jan 2015)				Hindcast Gridded Data One-month > Daily data Three-month > Monthly mean data Seven-month > Monthly mean data					
 Animation of One-month Model Prediction is experimental and not identical with the formal products (e.g. Weekly forecast maps, gridded datasets). 						and V	Varm/Cold S	eason Fore	casts		

http://ds.data.jma.go.jp/tcc/tcc/products/model/index.html

Application is as follow: http://ds.data.jma.go.jp/tcc/tcc/products/model/Application.html

http://extreme.kishou.go.jp/tool/itacs-tcc2011/

Training Module on the website

Materials and presentations of training seminars are available on the TCC website.

Japan Meteorolo	3(1)	Tokyo Climat			ate Cent	er in RA II (/	Asia) 💩 🗙	MO
					• тсс	Chome 🖸 About TC	C 🛛 Site Map 🔍 Cont	act us
Home	World Climate	Climate System Monitoring	El Niño Monitoring	NWP Model Prediction	Global Warming	Climate in Japan T	raining Nodule	Links
HOME > Doo	cuments Librar	у						

Library and Documents

This is the location of our documents/presentations on research and development activities and training modules for capacity building on climate monitoring and seasonal forecasting.

Main Products

Training Modules
TCC Training Seminar on Seasonal Prediction Products (11 - 15 November 2013) W NE
TCC Training Seminar on Climate Analysis Information (26 - 30 November 2012)
TCC Training Seminar on One-month Forecast Products (7-9 November 2011)
» TCC Training Seminar on Application of Seasonal Forecast GPV Data to Seasonal Forecast Products (18-21 January 2011)
TCC Training Seminar on Climate Analysis using Re-analysis Data (1-4 December 2009)
TCC Training Seminar on Climate Information and Forecasting (4-6 November 2008)
Abstracts and Presentations by JMA
Abstracts and Presentations by SMA
Forum on Regional Climate Monitoring, Assessment and Prediction for Asia (FOCRAII)
Tenth session (23-25 April 2014, Beijing, China) [₩] NE

Thank you for your attention.

