#### WMO OMM



World Meteorological Organization Organisation météorologique mondiale Organización Meteorológica Mundial Всемирная метеорологическая организация المنظمة العالية للأرصاد الجوية 世界气象组织

جنيف، 30 أيلول/ سبتمبر 2016

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الرسالة رقم: WCAS/LC-LRFMME

عدد المرفقات: 1 (متوافر بالإنكليزية فقط)

الموضوع: الموقع الشبكي للمركز الرئيسي للتنبؤات الطويلة المدى على أساس مجموعات التنبؤات المتعددة النماذج (LC-LRFMME) التابع للمنظمة العالمية للأرصاد الجوية (WMO)

الإجراء المطلوب: التسجيل وتقديم تعليقات من خلال الاستقصاء الموجه للمستخدمين والمتاح على الإنترنت من تشرين الأول/ أكتوبر إلى كانون الأول/ ديسمبر 2016

تحية طيبة وبعد،

بدأت المنظمة العالمية للأرصاد الجوية (WMO) في عام 2006 عملية تسمية مراكز لإنتاج تنبؤات موسمية عالمية وإتاحتها عملياً لجميع أعضاء المنظمة (WMO) كجزء لا يتجزأ من النظام العالمي لمعالجة البيانات والتنبؤ (GDPFS). وفي هذا الإطار، تلتزم هذه المراكز، المسماة باعتبارها مراكز عالمية لإنتاج التنبؤات طويلة المدى (GPCLRFs)، بالإجراءات القياسية المحددة بدقة والتي تساعد على اتساق وإمكانية استخدام الدورات المحددة لإنتاج التنبؤات والمجموعات المحددة من نواتج التنبؤات وإجراءات المنظمة (WMO) للتحقق المعياري. وقد سمت المنظمة (WMO) حتى الآن 12 مركزاً (GPCLRFs) ومركزين رئيسيين، هما المركز الرئيسي للتنبؤات الطويلة المدى على أساس مجموعات المتعددة النماذج (LC-SVSLRF) والمركز الرئيسي المعني بنظام التحقق المعياري من التنبؤ الطويل المدى (LC-SVSLRF).

ويقوم المركز (LC-LRFMME)، الذي تنسق شؤونه إدارة الأرصاد الجوية الكورية (KMA) ومركز التنبؤ المناخي التابع للإدارة الوطنية للمحيطات والغلاف الجوي (NOAA)، بتجميع وتوفير معلومات التنبؤ من الاثنى عشر مركزاً (GPCLRFs)، التي تنبع الإجراءات والنواتج المتفق عليها في تقديم التنبؤات العالمية طويلة المدى، من أجل زيادة الموثوقية. ومرفق طيه نشرة إعلانية للعلم تتضمن معلومات تفصيلية عن هيكل المركز (LC-LRFMME) والخدمات التي يقدمها.

ويمكن لأعضاء المنظمة (WMO) الوصول إلى مجموعة واسعة من النواتج التي يوفرها المركز (LC-LRFMME) من خلال موقعه الشبكي: /https://www.wmolc.org. وإنني أشجعكم على إنشاء حساب لكم في هذا الموقع للاستفادة من النواتج المتاحة عليه، وكذلك المشاركة في استقصاء المستخدمين لعام 2016 المتاح على الموقع الشبكي الوارد أعلاه، من تشرين الأول/ أكتوبر إلى كانون الأول/ ديسمبر 2016. فتعليقاتكم ستساعد على تحسين فهم احتياجات أعضاء المنظمة (WMO) تحديداً من أجل مواصلة تحسين خدمات المركز (LC-LRFMME).

وأشكركم مقدماً على تعاونكم.

وتفضلوا بقبول فائق الاحترام،

Hallfullo (إ. ماناينكوفا) عن الأمين العام

إلى: الممثلين الدائمين لأعضاء المنظمة (أو مديري مرافق الأرصاد الجوية أو الأرصاد الجوية الهيدرولوجية التابعة لأعضاء المنظمة) (PR-6933)



# WMO LC-LRFMME



- Beijing: China Meteorological Administration (CMA) / Bejing Climate Center (BCC)
- CPTEC: Center for Weather Forecasting and Climate Research / National Institute for Space Research (INPE), Brazil
- ECMWF: European Centre for Medium-Range Weather Forecasts
- Exeter: Met Office, United Kingdom
- Melbourne: Bureau of Meteorology (BOM), Australia
- Montreal: Meteorological Service of Canada (MSC)
- Moscow: Hydrometeorological Centre of Russia
- Pretoria: South African Weather Services (SAWS)
- Seoul: Korea Meteorological Administration (KMA)
- Tokyo: Japan Meteorological Agency (JMA) / Tokyo Climate Center (TCC)
- Toulouse: Météo-France
- Washington: Climate Prediction Center (CPC) /
  - National Oceanic and Atmospheric Administration (NOAA), United States of America



Maximize the benefit from

favorable climate

conditions

#### Background

- 12 WMO-designated Global Producing Centres (GPCs) for long-range forecasts
  - adhering to agreed procedures/standards in delivery of global long-range forecasts (e.g. products, timeliness, verification/validation info, system documentation)
- Linkage is needed among GPCs and other organizations including NMHSs, RCCs and RCOFs to ensure wider and more effective use of LRF

#### Objectives

The LC-LRFMME aims to support collecting and sharing GPCs forecast information to increase the reliability of LRFs. Improved LRFs can help reduce socioeconomic losses associated with seasonal variability and protect life and property.

## **Functions of WMO LC-LRFMME**

LC-LRFMME provides a conduit between GPC and NMHS, RCC, RCOF etc.



## Available products of WMO LC-LRFMME

### Digital products

Both forecast and hindcast of monthly mean anomalies of the GPCs' ensemble mean for lead time of 1-3 months, following the month of submission

- 2m surface temperature
- Precipitation
- Mean sea level pressure
- 850hPa temperature
- 500hPa geopotential height
- Sea surface temperature



### Graphical products

#### Individual forecast

- Plots for each GPCs' forecast anomalies in common graphical format (Rectangular, Time series, Stereographic type, etc.)
- Consistency map
- SST Plume (Nino3.4 SST anomalies)

#### **Deterministic MME**

- Simple composite mean (SCM)
- Regular Multiple Regression
- Sigular Value Decomposition (SVD)
- Genetic Algorithm (AG)

#### **Probabilistic MME**

 Tercile-based categorical probabilities





#### Verification

- · Hindcast for both MME and Individual GPCs
- Forecast for MME



#### For more Information of WMO LC-LRFMME

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# How to register on the WMO LC-LRFMME

www.wmolc.org	
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WMO Lead Centre for LC-LRCMME tabs	Login Sign up
Home About us News Data & Plot Related Sites WMO Lead Centre for SVSLRF >>	
Introduction   Deterministic MME   Probabilistic MME   References	Login
Latest Porecast data Latest Forecast data	You can log in to LC-LRFMME homepage by clicking this button and entering your ID and password. Sign up You can register on the website after signing up.
Notice / News More WMO Global Producing Centres	
Checki System Requirements       2016.06.19         User guide of the LC-LRFMME website is published       2016.06.17         New Icadie LC-LRFMME is published       2016.06.17         All GPCS(12) for JAS 2016 are uploaded       2016.05.26         All GPCS(12) for JA3 2016 are uploaded       2016.05.26	For more information in detail
Kores Metorological Administration       61 16-G1L YEOUIDAEBANG-80 DONGJAK-OU SEOUL 156-720 Republic of Kores Email. k_Liffmine Bkores.kr Tel. 82-2:2181-0429       today : 92 todal : 168939         Copyright KMa all rights reserved.       Privacy Handling Policy       today : 92 todal : 168939	Please see the WMO LC-LRFMME Website User Manual in Notice and News

1D		Sign Up Form	
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	Last Name *		
	Desired login ID *		
	Desired login 10	/ AUCIPER	
	Passworu	(At least 9 characters.) (It contains 3 or more in lower-case, upper-case, numbers and special symbols)	
	Confirm Password		
	Official e-mail *	(Your official organisational e-mail address)	
	Other e-mail	(Other contact e-mail address)	
	A identification question *	Please select a question.	
	answer *		
Key	Country *	Afghanistan V	
formation	Your job title *		
	Affiliation *		
	(Please spell out	(Agency, Administration, Institution, Center, etc.)	
	acronym in	(Division, Department, Group, Branch, etc.)	
	brackets)	(Please provide us in detail)	
		At present access to the site is limited to Global Producing Centres (GPCs), Region Climate Centres (RCCs) and bodies coordinating Regional Climate Outlook Forums (RCOFs) - as designated or recognised by the World Meteorological Organisation a: well as to National Meteorological and Hydrological Services (NMHSS), Please indicate below the classification(s) most relevant to your organisation.	sl s
		WMO Global Producing Center(GPC) for LRF?	
		National Meteorological and Hydrological Service?	
		WMO Regional Climate Center?  Regional Climate Conter?	
		Other associated organisation (if selecting this category please give details of your	
		organisation in the comments section below)	
	Your comments		
	Terms of Service	Terms of Use Notice	
		This Web site ("Site") was developed by the WHO Lead Centre for LRF MHE (WHO LC). By using this Site and/or downtoaring materials from this Site, you agree to the terms and conditions set for the in this document the times of Los (.). Who IC researces the right to when posted. Site of the site of the when posted. Site you can access documents, software, and products (collectively, the "Naterial"). Some of these Naterials include software, models and data sets that are some software. The software models and data sets that are some of by the row specific terms of use, the absence of userial terms of the site of the software, models and data sets that are the software of the software models and data sets that are some of by their on specific terms of use, these some of by their on specific terms of use, these some of the software models and the software models and the software.	<b>`</b>
		I agree	
	Privacy Handling	PRIVACY HANDLING POLICY	
	Policy	(WMO Lead Centre for LRF-MME)	^
		Purposes for collecting and using personal information	1
		To provide customized information;	
		identification, and transmitting announcements; and	
		To gauge and improve the effectiveness of the website and services To improve your interaction with the site or service	~
greement			
		Old Privacy Handling Policy Old Privacy Policy (14 Nov 2012 ~ 09 Mar 2016).	
		Old Privacy Policy (~ 13 Nov 2012).	
	Agreement to collecting personal	Agreement to collecting personal information (WMO Lead Centre for LRF-MME)	~
	information	Burnesse for collecting percent information	
		We collect and use the information that you provide for the following purposes:	
		To manage website usership, such as maintaining a membership database, member	
		identification, and transmitting announcements; and To gauge and improve the effectiveness of the website and services	~
		I agree	
	Consignment of	Consignment of Personal Information Processing	
	Personal Information		1
	Processing	WMO LC-LRFMME consigns the task of personal information processing as follows. Consignee of Personal information Processing	
		Task : collection, bandling and managing personal information	1
		Name of Consignee : APEC Climate Center	
		Consistent and a Until test consistent	-

Step **01** 

To register with the website, click on the "Sign Up" button. Then fill out your basic information.

Step

Please read the Terms of Service, Privacy Handling Policy, and Agreement, and check each box "I agree" to confirm that you agree with the terms. Then click "Make a New Account."

Step

After signing up, click on a hyperlink "[LINK]" in your email message that you filled in the "Sign up" page.



At this link page, you will get authentication after entering logging in with your ID, password.

Step **05** 

The administrator will give you a membership grade, such as grade A, B or C, depending on your affiliation.

\* The authentication function is intended to restrict and limit unauthorized users to access the website.

#### Membership Grade

- Grade A (GPCs) can upload and download digital data and can download image plots.
- Grade B (NMHSs and RCCs) can download digital data and image plots.
- Grade C (Others) can download only Multi-model ensemble image plots.