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APCC SEASONAL CLIMATE OUTLOOK FOR SUMMER 2013

Hyun-Ju Lee,
(asteria1104@apcc21.org)

Doo Young Lee, Soo-Jin Sohn
APEC Climate Center (APCC), Busan, Korea
ONE  Introduction
TWO  6-month one-tier MME forecast system
THREE  Seasonal Outlook for Summer 2013
FOUR  Summary
Introduction

- APCC has provided the monthly 3-month MME forecast and the seasonally 6-month one-tier MME forecast to APEC region
- 17 institutions/operation centers from 9 APEC member economies
- Deterministic and probabilistic MME forecasts
- Precipitation, temperature at 850hPa, and geopotential height at 500hPa
6-month one tier MME forecast system

- The 6-month lead dynamical seasonal predictions have been operationalized since May 2012
6-month one tier MME forecast

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Table 1: One-Tier 6-month lead individual models

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<th>Institute</th>
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<th>OGCM/resolution</th>
<th>Ensemble num.</th>
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Seasonal outlook for Summer 2013
Recent Evolution: Niño Region and Equatorial SST Departures

- During January-February 2013, below-average SSTs were observed over the eastern half of the Pacific.
- Recently, small above-average SSTs have emerged in the eastern Pacific.
ENSO Prediction for MAMJJA 2013

➢ APCC ENSO forecast for Mar-Aug 2013 based on 6-month 1-tier MME prediction suggests that the persistence of current Nino-3 Index, with ENSO-neutral continuing by summer 2013

➢ The skill score of Nino3 index has higher value until prediction of Aug for hindcast period
Precipitation

Deterministic MME: SCM

- Slightly wet conditions in Indonesia Islands, some parts of Indian subcontinent, the south of Korea and southern portion of the Japan
- Anomalous dry condition over south coast of China

Probabilistic MME

- no particular signal over East Asia
Temperature at 850hPa

- Anomalous warming of temperature at 850hPa in most of Russia, most of East Asia including part of China, Korea and Japan
- Cooler than normal condition in southern part of India
- Above normal with about 60% probability over some part of Russia, Korea and Japan
Geopotential Height at 500hPa

- Positive anomalies in most of Asian area except for southern part of India
Summary

Climate Outlook Highlights

- **ENSO prediction**
  - APCC ENSO forecast for Mar-Aug 2012 based on 6-month 1-tier MME prediction suggests that the persistence of current Nino-3 Index, with ENSO-neutral continuing by summer 2013

- **Precipitation and Temperature**
  - Wet condition in Indonesia Islands, some parts of Indian subcontinent, the south of Korea and Japan
  - Dry condition over the south coast of China
  - Warmer than normal condition in the large parts of Russia, most of East Asia including part of China, Korea and Japan
  - Cooler than normal condition in southern part of India
Thank you!