



WORLD  
METEOROLOGICAL  
ORGANIZATION



# WMO WORKSHOP ON GLOBAL REVIEW OF REGIONAL CLIMATE OUTLOOK FORUMS

5-7 September, 2017

Guayaquil, Ecuador

## PROVISIONAL AGENDA

(Final Draft 16.08.2017)

### Day 1: 5 September 2017 (Tuesday)

08:30 – 09:00 REGISTRATION

#### 1. Opening session

09:00 – 09:30

- Opening Remarks by the PR of Ecuador
- Statement on behalf of the WMO Secretary-General (R.K. Kolli)
- Remarks by CIIFEN (R. Martinez)
- Tour de table (All)
- Logistic briefing (CIIFEN)

#### 2. Setting the scene

Chair: J.-P. Ceron Rapporteur: A. Hovsepyan

09:30 – 10:00

Global RCOF Review:

- *The concept, goals and objectives of the RCOF Review;*
- *Recap of previous reviews*

R. Martinez (CIIFEN)

10:00 – 10:15

RCOF operational practices: *Towards objective seasonal forecasting*

R. Kolli (WMO)

10:15 – 10:30

GPC-LRFs, RCCs and their role in RCOF operations: *Current status and future prospects*

C. Coelho (CPTEC)

10:30 – 11:00

HEALTH BREAK & GROUP PHOTO

#### 3. Reports of RCOF operations around the world

*Summary of activities of individual RCOFs, particularly focusing on operational aspects (based on the template provided, 10 min each)*

Chair: S. Mason (IRI) Rapporteur: D.S. Pai (IMD)

##### RA I (Africa)

11:00 – 11:10

- Greater Horn of Africa Climate Outlook Forum (GHACOF)

G. Artan (ICPAC)

11:10 – 11:40

- Central Africa (Prévisions Climatiques Saisonnières en Afrique Centrale : PRESAC)
- Sudano-Sahelian Africa (Prévisions Climatiques Saisonnières en Afrique)

A. Kamga (ACMAD)  
S. Traore (AGRHMET)

|                                                                                                            |                                                                                                                                                                                      |                                        |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                                                                                                            | <div>Soudano-Sahélienne : PRESASS)</div> <div><div><div></div></div><div>Gulf of Guinea (Prévisions Climatiques Saisonnières pour les pays du Golfe de Guinée : PRESAGG)</div></div> |                                        |
| 11:40 – 11:50                                                                                              | <div>Northern Africa (Prévisions Climatiques Saisonnières en Afrique du Nord : PRESANORD)</div>                                                                                      | K. Kabidi (DMN, Morocco)               |
| 11:50 – 12:00                                                                                              | <div>Southern African Regional Climate Outlook Forum (SARCOF)</div>                                                                                                                  | F. Nsadisa (SADC-CSC)                  |
| 12:00 – 12:10                                                                                              | <div>South West Indian Ocean Climate Outlook Forum (SWIOCOF)</div>                                                                                                                   | F. Bonnardot (Meteo France/La Reunion) |
|                                                                                                            | RA II (Asia)                                                                                                                                                                         |                                        |
| 12:10 – 12:20                                                                                              | <div>East Asia winter Climate Outlook Forum (EASCOF)</div>                                                                                                                           | Y. Mochizuki (TCC, Japan)              |
| 12:20 – 12:30                                                                                              | <div>Forum on Regional Climate Monitoring, Assessment and Prediction for Regional Association II (FOCRAII)</div>                                                                     | Z. Gong (BCC, China)                   |
| 12:30 – 14:00                                                                                              | LUNCH BREAK                                                                                                                                                                          |                                        |
| 3. Review of RCOFs around the world (continued)<br>Chair: S. Mason (IRI)      Rapporteur: A. Kamga (ACMAD) |                                                                                                                                                                                      |                                        |
|                                                                                                            | RA II (Asia) contd.                                                                                                                                                                  |                                        |
| 14:00 – 14:10                                                                                              | <div>South Asian Climate Outlook Forum (SASCOF)</div>                                                                                                                                | D.S. Pai (IMD, India)                  |
|                                                                                                            | RA III (South America)                                                                                                                                                               |                                        |
| 14:10 – 14:20                                                                                              | <div>Southeast of South America Climate Outlook Forum (SSACOF)</div>                                                                                                                 | L. Aldeco (Argentina)                  |
| 14:20 – 14:30                                                                                              | <div>Western Coast of South America Climate Outlook Forum (WCSACOF)</div>                                                                                                            | R. Martinez (CIIFEN)                   |
|                                                                                                            | RA IV (Northern America, Central America and the Caribbean)                                                                                                                          |                                        |
| 14:30 – 14:40                                                                                              | <div>Central American Climate Outlook Forum (CACOF)</div>                                                                                                                            | B. Olmedo (RCHR)                       |
| 14:40 – 14:50                                                                                              | <div>Caribbean Climate Outlook Forum (CariCOF)</div>                                                                                                                                 | A.Trotman (CIMH)                       |
|                                                                                                            | RA V (South-west Pacific)                                                                                                                                                            |                                        |
| 14:50 – 15:00                                                                                              | <div>Association of South East Asian Nations Climate Outlook Forum (ASEANCOF) (RAII+RAV)</div>                                                                                       | T. Turkington (MSS, Singapore)         |
| 15:00 – 15:10                                                                                              | <div>Pacific Islands Climate Outlook Forum (PICOF)</div>                                                                                                                             | A. Montoro (SPREP)                     |
|                                                                                                            | RA VI (Europe)                                                                                                                                                                       |                                        |
| 15:10 – 15:20                                                                                              | <div>North Eurasian Climate Outlook Forum (NEACOF) (RAII+RAVI)</div>                                                                                                                 | V. Khan (NEACC)                        |
| 15:20 – 15:30                                                                                              | <div>Mediterranean Climate Outlook Forum (MedCOF) (RAVI+RAI)</div>                                                                                                                   | E. Rodriguez (AEMET, Spain)            |
| 15:30 – 16:00                                                                                              | HEALTH BREAK                                                                                                                                                                         |                                        |
| 3. Review of RCOFs around the world (continued)<br>Chair: S. Mason (IRI)      Rapporteur: A. Kamga (ACMAD) |                                                                                                                                                                                      |                                        |

|               |                                                                                             |                                |
|---------------|---------------------------------------------------------------------------------------------|--------------------------------|
|               | <b>RA VI (Europe) contd.</b>                                                                |                                |
| 16:00 – 16:10 | ▪ South-East European Climate Outlook Forum (SEECOF)                                        | B. Bijelic (SEEVCCC)           |
|               | <b>Arctic (RAII/RAIV/RAVI)</b>                                                              |                                |
| 16:10 – 16:20 | ▪ Pan-Arctic Climate Outlook Forum (PARCOF)                                                 | B. Denis (ECCC, Canada)        |
| 16:20 – 17:30 | Open Discussion: Elements of RCOF operations, common practices, successes, challenges, gaps | Moderated by M. Coughlan (BoM) |
| 17:30         | CLOSURE OF DAY 1                                                                            |                                |
| 18:30-21:00   | Social Event                                                                                |                                |

## Day 2: 6 September 2017 (Wednesday)

### 4. Synthesis of RCOF Operational Practices

Chair: M. Coughlan (BoM) Rapporteur: C. Coelho (CPTEC)

|               |                                                                                                                  |                          |
|---------------|------------------------------------------------------------------------------------------------------------------|--------------------------|
| 09:00 – 09:15 | Development of consensus based outlook including data/forecast inputs                                            | R. Martinez (CIIFEN)     |
| 09:15 – 09:30 | Understanding sources of predictability                                                                          | A. Brookshaw (ECMWF-C3S) |
| 09:30 – 09:45 | Downscaling techniques and tools                                                                                 | J.P. Ceron (CCI)         |
| 09:45 – 10:00 | Climate monitoring, Climate Watch Advisory                                                                       | E. Rodriguez (AEMET)     |
| 10:00 – 10:15 | Forecast Verification                                                                                            | S. Mason (IRI)           |
| 10:15 – 10:30 | Discussion                                                                                                       | All                      |
| 10:30 – 11:00 | HEALTH BREAK                                                                                                     |                          |
| 11:00 – 11:15 | Capacity development activities in RCOFs: current practices and possibilities for centralized training workshops | W. Thiaw (NOAA)          |
| 11:15 – 11:30 | Regional user engagement, sector-focused RCOF sessions, user applications and evaluation                         | P. Ramirez (CCI)         |
| 11:30 – 11:45 | Coordination mechanisms: role of Regional Climate Centres                                                        | A. Kanga (ACMAD)         |
| 11:45 – 12:00 | Sub-seasonal updates to RCOF products                                                                            | A. Trotman (CIMH)        |
| 12:00 – 12:30 | Discussion                                                                                                       | All                      |
| 12:30 – 14:00 | LUNCH BREAK                                                                                                      |                          |

### 5. Towards improved and sustained RCOF processes

Chair: J.P. Ceron (CCI) Rapporteur: S. Diouf (NOAA)

|               |                                                                                                  |                          |
|---------------|--------------------------------------------------------------------------------------------------|--------------------------|
| 14:00 – 14:15 | Good practices in RCOFs, summarizing SWOT analysis                                               | A.Tait (NIWA)            |
| 14:15 – 14:45 | The Role of Co-production in RCOFs: Toward Usable Climate Services                               | M. Daly (ULeeds)         |
| 14:45 – 15:00 | Improved/standardized format of seasonal outlook statements                                      | D.S. Pai (IMD)           |
| 15:00 – 15:15 | CCI Expert Teams' guidelines to help improving RCOF process                                      | R. Martinez (CIIFEN)     |
| 15:15 – 15:30 | Global Seasonal Climate Update: <i>Current status and future prospects for RCOF applications</i> | A. Brookshaw (ECMWF-C3S) |

|               |                                                                                |                          |
|---------------|--------------------------------------------------------------------------------|--------------------------|
| 15:30 – 16:00 | HEALTH BREAK                                                                   |                          |
| 16:00 – 16:15 | LC LRFMME operation, access to products for RCOFs                              | K.H. Cho (KMA)           |
| 16:15 – 16:30 | Copernicus Climate Change Service (ECMWF-C3S): potential role in RCOF process  | A. Brookshaw (ECMWF-C3S) |
| 16:30 – 16:45 | Regional approach for implementation of Climate Services Information System    | R. Kolli (WMO)           |
| 16:45 – 17:00 | NCOF concept: scaling down RCOF outlooks for decision making at national scale | G.Srinivasan (RIMES)     |
| 17:00 – 17:15 | Mobilizing resources to sustain the RCOFs through funding mechanisms           | R. Martinez (CIIFEN)     |
| 17:15 – 17:45 | Open Discussion: integrating new approaches in RCOF operation                  | All                      |
| 17:45         | CLOSURE OF DAY 2                                                               |                          |

## Day 3: 7 September 2017 (Thursday)

### 6. Breakout Sessions

Participants in break-out groups will discuss the current status, and opportunities to introduce innovative approaches and standardized operational practices for generating RCOF outputs including, *inter alia*, the development of objective sub-seasonal and seasonal regional forecasts, tailoring forecast products to specific user-requirements, and mechanisms for the provision of regular sub-seasonal updates between the RCOF sessions.

|                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 09:00 – 09:10                                                                                                                           | Introduction to breakout discussion session                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | S.Mason (IRI)          |
| 09:10 – 10:30                                                                                                                           | Break-out group discussions on key topics ( <i>Moderator/Rapporteur</i> ):<br>1. Roles and operations of GPCLRFs in support of RCOFs and in introducing Objective approaches to RCOF products ( <i>C.Coelho/Z.Gong</i> );<br>2. Roles and operations of RCCs in support of RCOFs, including capacity development and updates between RCOF sessions ( <i>A.Trotman/V.Khan</i> );<br>3. Role of NMHSs in the follow-up integration of seasonal outlooks in decision making process at country level ( <i>G.Srinivasan/M.Etala</i> );<br>4. User engagement in RCOFs ( <i>M.Daly/P.Luganda</i> );<br>5. Expanding RCOFs portfolio (e.g. adding climate monitoring, climate change projections, etc.) ( <i>J.P.Ceron/T.Turkington</i> ) |                        |
| 10:30 – 11:00                                                                                                                           | HEALTH BREAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |
| 11:00 – 12:30                                                                                                                           | Break-out Group Discussions continued                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
| 12:30 – 14:00                                                                                                                           | LUNCH BREAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |
| <b>7. Conclusions and Recommendations for the future generation RCOFs</b><br>Chair: R. Martinez (CIIFEN) Rapporteur: A. Hovsepyan (WMO) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
| 14:00 – 15:00                                                                                                                           | Reporting back from break-out groups (10 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Moderators/Rapporteurs |
| 15:00 – 15:30                                                                                                                           | Open Discussion: findings of break-out discussions as recommendations for future development of RCOFs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Moderated by A. Tait   |
| 15:30 – 16:00                                                                                                                           | HEALTH BREAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |
| 16:00 – 16:30                                                                                                                           | Review of actions, conclusions and recommendations on way forward for improved RCOF operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Moderated by A. Tait   |
| 16:30-16:40                                                                                                                             | Any other business                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |

|               |                 |             |
|---------------|-----------------|-------------|
| 16:40 – 17:00 | Closing remarks | CIIFEN, WMO |
| 17:00         | END OF WORKSHOP |             |