**Sixteenth International Training Workshop Climate Variability and Predictions (16ITWCVP)**

**Training Workshop Schedule**

**Dakar, Senegal, 11-24 September 2024**

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|  | **Day – 1, Wednesday, September 11, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 09:10  09:10 – 09: 30  09:30 – 11:00 | Welcoming remarks  Tour de Table  Pre-requisite Packages for QGIS | ANACIM  Participants  Steven, William, ANACIM |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 11: 50 | Pre-requisite Packages for WSL Operating System | Steven, William, ANACIM |
| 11:50 – 13:00 | Pre-requisite Packages for XCast and CMT |  |
| **13:00 – 14:30** | **LUNCH BREAK** |  |
| 14:30 -15:30 | Introduction to GIS and QGIS | Steven, William, ANACIM |
| 15:15 – 16:00 | Practice QGIS |  |
| **16:00 – 16:15** | **Afternoon Tea Break** |  |
| 16:15 – 17:00 | Practice QGIS | Steven, William, ANACIM |
|  | **Day – 2, Thursday, September 12, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | QGIS: Vector analysis and geoprocessing | Steven, William, ANACIM |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Practice vector analysis and geoprocessing | Steven, William, ANACIM |
| **13:00 – 14:00** | **LUNCH BREAK** |  |
| 14:00 -16:00 | QGIS: Raster analysis and operations | Steven, William, ANACIM |
| **16:00 – 16:15** | **Afternoon Tea Break** |  |
| 16:15 – 17:00 | Practice raster analysis and operations | Steven, William, ANACIM |
|  | **Day – 3, Friday, September 13, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | Practice vector and raster analysis and operations | Steven, William, ANACIM |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | QGIS: Practice on handling geotiff files | Steven, William, ANACIM |
| **13:00 – 14:00** | **LUNCH BREAK** |  |
| 14:00 -16:00 | QGIS: Mapmaking | Steven, William, ANACIM |
| **16:00 – 16:15** | **Afternoon Tea Break** |  |
| 16:15 – 17:00 | Practice mapmaking | Steven, William, ANACIM |
|  | **Day – 4, Saturday, September 14, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | Practice on mapmaking | Steven/William |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Practice mapmaking | Steven/William |
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|  | **Day – 5, Monday, September 16, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | **Sanity checks prerequisite packages** | Endalk, Pierre, Zewdu |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Demonstration real-time sub-seasonal forecasting | Endalk |
| **13:00 – 14:00** | **LUNCH BREAK** |  |
| 14:00 -16:00 | Calibration of the NCEP GEFS for sub-seasonal precipitation forecasts | Endalk |
| **16:00 – 16:15** | **Afternoon Tea Break** |  |
| 16:15 – 17:00 | Practice sub-seasonal precipitation forecasts | Endalk/ Zewdu |
|  | **Day – 6, Tuesday, September 17, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | Jupyter Notebook Demonstration on real time seasonal prediction using CCA | Endalk |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Practice experimental seasonal rainfall predictions with observed SST and interpretation of diagnostics results | Endalk, Zewdu, Ousmane |
| **13:00 – 14:00** | **LUNCH BREAK** |  |
| 14:00 – 17:00 | Practice – Downscaling the North American Multi-model Ensemble (NMME) forecasts | Endalk, Zewdu, Ousmane |
|  | **Day – 7, Thursday, September 18, 2024** |  |
| 09:00 – 13:00 | Practice – Downscaling the North American Multi-model Ensemble (NMME) forecasts | Endalk, Zewdu, Ousmane |
| 13:00 – 14:00 | **LUNCH BREAK** |  |
| 14:00 – 17:00 | Presentations subseasonal and seasonal forecasts systems | All participants |
|  | **Day – 8, Thursday, September 19, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | Introduction to Climate monitoring Tool (CMT), grid and station data based CMT | Pierre, Endalk, Zewdu |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Practice Climate Monitoring Tool (CMT) using gridded data | Pierre, Endalk, Zewdu |
| **13:00 – 14:00** | **LUNCH BREAK** |  |
| 14:00 -16:00 | Practice Climate Monitoring Tool (CMT) using station data | Pierre, Endalk, Zewdu |
| **16:00 – 16:15** | **Afternoon Tea Break** |  |
| 16:15 – 17:00 | Drought monitoring applications | Pierre, Endalk, Zewdu |
|  | **Day – 9, Friday, September 19, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | Introduction to Hazards Outlooks | Zewdu |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Breakout Groups Subseasonal and Seasonal forecasts, and Hazards Outlooks | Pierre, Endalk, Zewdu |
| **13:00 – 14:00** | **LUNCH BREAK** |  |
| 14:00 -16:00 | Breakout Groups Subseasonal and Seasonal forecasts, and Hazards Outlooks | Pierre, Endalk, Zewdu |
| **16:00 – 16:15** | **Afternoon Tea Break** |  |
| 16:15 – 17:00 | Breakout Groups Subseasonal and Seasonal forecasts, and Hazards Outlooks | Pierre, Endalk, Zewdu |
|  | **Day – 10, Saturday, September 20, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | Breakout Groups Subseasonal and Seasonal forecasts, and Hazards Outlooks | Pierre, Endalk, Zewdu |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Group Presentations | Participants |
| **13:00 – 14:00** | **LUNCH BREAK** |  |
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|  | **Day – 11, Monday, September 23, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 10:00 | Welcoming Remarks and Group Photo | Ousmane, Wassila |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Stakeholders perspectives on sub-seasonal to seasonal forecasting | Panel |
| **13:00 – 14:00** | **LUNCH BREAK** |  |
| 14:00 -16:00 | Presentation Senegal real time hazards outlooks | ANACIM |
| **16:00** | **Afternoon Tea Break and Adjourn** |  |
|  | **Day – 12, Tuesday, September 24, 2024** |  |
| **Time** | **Session** | **Facilitator** |
| 09:00 – 11:00 | Meeting of the Senegal Multidisciplinary Working Group and the NOAA President Emergency Plan for Adaptation and Resilience (PREPARE) | NOAA, ANACIM, Stakeholders |
| **11:00 – 11:20** | **Morning Tea** |  |
| 11:20 – 13: 00 | Discussion, closing, Lunch | ANACIM |