Second WMO RCC-Washington International Training Workshop

Instructions

8 – 10 November 2021

How to run extreme temperature tools script?

1) Download the folder **subseason_heat.tar.gz**

2) Place the folder **subseason_heat.tar.gz** to your Cygwin home directory **C:/cygwin64/home/*user_name***

3) Open your Cygwin terminal and extract the folder **subseason_heat.tar.gz**, by typing:

```
tar -xvf subseason_heat.tar.gz
```

4) Go to the **subseason_heat** directory, by typing:

```
cd subseason_heat
```

5) Check that all the files are here, by typing:

```
ls
```

```
dssdi@DESKTOP-LBE5830 ~/subseason_heat
$ ls
gefs_week1_figures  gradssupp   plot_all.sh       plot_gefs_week1_tools.sh       plot_gefs_week2_tools.sh
gefs_week2_figures  index.html  plot_all_curl.sh  plot_gefs_week1_tools_curl.sh  plot_gefs_week2_tools_curl.sh
```

6) Run the 1-line shell script to generate the week-2 forecast tools for your domain of interest:

```
bash plot_all.sh -94 -75 6 20
```

Mexico: -118 -85 12 34
Central America: -94 -75 6 20
The Caribbean, Belize, Guyana, and Suriname: -95 -50 0 30
Peru and Ecuador: -82 -67 -19 2

If the script runs successfully, an offline web page (**index.html**), populated with the forecast tools, will pop up automatically.

How to run extreme precipitation tools script?

1) Download the folder **subseason_precip.tar.gz**

2) Place the folder **subseason_precip.tar.gz** to your Cygwin home directory **C:/cygwin64/home/*user_name***

3) Open your Cygwin terminal and extract the folder **subseason_precip.tar.gz**, by typing:

```
tar -xvf subseason_precip.tar.gz
```

4) Go to the **subseason_precip** directory, by typing:

```
cd subseason_precip
```

5) Check that all the files are here, by typing:

```
ls
```

```
dssdi@DESKTOP-LBE5830 ~/subseason_precip
$ ls
gefs_week1_figures  gradssupp   plot_all.sh       plot_gefs_week1_tools.sh       plot_gefs_week2_tools.sh
gefs_week2_figures  index.html  plot_all_curl.sh  plot_gefs_week1_tools_curl.sh  plot_gefs_week2_tools_curl.sh
```

6) Run the 1-line shell script to generate the week-2 forecast tools for your domain of interest:

```
bash plot_all.sh -94 -75 6 20
```

Mexico: -118 -85 12 34
Central America: -94 -75 6 20
The Caribbean, Belize, Guyana, and Suriname: -95 -50 0 30
Peru and Ecuador: -82 -67 -19 2

If the script runs successfully, an offline web page (**index.html**), populated with the forecast tools, will pop up automatically.

Practical hands-on exercises

Objective

Produce the real-time **week-2 extreme temperature outlook map** and the real-time **week-2 extreme precipitation outlook map** for your region of interest

- **Initial conditions**: 9 November 2021
- **Period of validity**: 17 – 23 November 2021

How?

1) Run the script
2) Copy and paste the graphical plots in the template PowerPoint presentation
3) Analyze the graphical plots
4) Produce the week-2 extreme temperature outlook map and the week-2 extreme precipitation outlook map by using the oval drawing tool to draw polygons