

CariCOF regional and national outlook experiments in CPT - Experimental Setup

1.2. Three (3) Month Lead

Forecast Period (3 month Lead)	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ	DJF	JFM	FMA	MAM
Forecast done in	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
<i>Observed SST (NOAA ERSST v4)</i>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
<i>Simulated SST (NOAA CFSv2 and NMME ensemble mean) initial conditions</i>	Decic AMJ	Janic MJJ	Febic JJA	Maric JAS	Apric ASO	Mayic SON	Junic OND	Julic NDJ	Augic DJF	Sepic JFM	Octic FMA	Novic MAM
<i>Simulated rainfall totals (ECHAM4.5)</i>	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ	DJF
1 st month of season to forecast	4	5	6	7	8	9	10	11	12	1	2	3
Length of season	3	3	3	3	3	3	3	3	3	3	3	3
Add persistence	No	No	No	No	No	No	No	No	No	No	No	No

1.3. Predictor Parameters

Experiment No.	X Domain	Region	Predictor		Max. X Modes
Exp 1	140E - 20W & 30N - 20S	Atlantic & Pacific	ERSST v4	Observed	8
Exp 2	90W - 20W & 30N - 0N	Atlantic	ERSST v4	Observed	8
Exp 3	140E - 20W & 30N - 20S	Atlantic & Pacific	CFSv2	Simulated	8
Exp 4	90W - 20W & 30N - 0N	Atlantic	CFSv2	Simulated	8
Exp 5	100W - 40W & 35N - 5S	Caribbean	ECHAM4.5	Simulated Totals	5
Exp 6	140E - 20W & 30N - 20S	Atlantic & Pacific	NMME ensemble mean	Simulated	8
Exp 7	90W - 20W & 30N - 0N	Atlantic	NMME ensemble mean	Simulated	8

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2.3. SPI 6 Predictor Parameters

Experiment No.	X Domain	Region	Predictor		Max. X. Modes
Exp 1	140E - 20W & 30N - 20S	Atlantic & Pacific	ERSST	Observed	8
Exp 2	90W - 20W & 30N - 0N	Atlantic	ERSST	Observed	8
Exp 3	100W - 40W & 35N - 5S	Caribbean	ECHAM	Simulated Totals	5

2.4. SPI 12 Predictor Parameters

Experiment No.	X Domain	Region	Predictor		Max. X. Modes
Exp 1	140E - 20W & 30N - 20S	Atlantic & Pacific	ERSST	Observed	8

3. Wet Days

3.1. Zero (0) Month Lead

Forecast Period (0 month Lead)	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ	DJF
Forecast made in	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
<i>ERSST v4</i>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1 st month of season to forecast	1	2	3	4	5	6	7	8	9	10	11	12
Length of season	3	3	3	3	3	3	3	3	3	3	3	3
Add persistence	No	No	No	No	No	No	No	No	No	No	No	No

3.2. Predictor Parameters

Experiment No.	X Domain	Region	Predictor		Max. X. Modes
Exp1	140E - 20W & 30N - 20S	Atlantic & Pacific	ERSST	Observed	8

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4. Climatological periods

		Rainfall	Temperature	SPI	Wet Days
Climatological Period	<i>First Year</i>	1981	1996	1982	1985
	<i>Last year</i>	2010	2010	2014	2014
Climate period can go beyond training period		Yes	Yes	Yes	No
Season		Totals	Averages	Totals	Averages
Transform Y Data		Yes	No	Yes	Yes
Zero Bound		Yes	No	Yes	Yes

5. Regional outlooks

Regional 30-0N & 95-50W		Mean Temperature	Max. Temperature	Min Temperature	Rainfall	SPI	Wet Days
Start year		1982	1982	1982	1982	1982	1985
Max Missing Y Data	<i>Values</i>	20%	20%	20	20	20%	20%
	<i>Stations</i>	10%	10%	10	10	50%	50%
Max Modes for Atl. & Pac. Domain	<i>Y</i>	8	8	8	8	8	8
	<i>CCA</i>	5	5	5	5	5	5
Max Modes for Carib'n Domain	<i>Y</i>	5	5	5	5	5	-
	<i>CCA</i>	3	3	3	3	3	-

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6. National Outlooks

Anitgua						
19-16N & 63-60W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	1	1	1	2	2	1
Aruba						
13.5-11.5N & 71.5-68.5W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	1	1	1	1	1	1
The Bahamas						
28-21N & 80-71W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1990	-	-	1982	1982	1985
<i>Max Y Modes</i>	1	-	-	1	1	1
Barbados						
13.5-13N & 60-59W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	2	2	2	5	5	2
Belize						
19-15.5N & 89.5-87.5W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	3	1	2	5	5	1
Cayman Islands						
22.5-16N & 83-78W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	1	1	1	1	1	1
Cuba						
24-19N & 85.5-74W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	5	5	5	5	5	1

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Dominica						
16.5-14.5N & 62-60.5W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	2	1	1	2	2	2
Dominican Republic						
20.5-17.5N & 72.5-68W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	-	-	-	1982	1982	1985
<i>Max Y Modes</i>				5	5	1
French Antillies: Saint Barthelemy and Sint Martin						
19-16N & 64-61W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	-	-	-	1982	1982	-
<i>Max Y Modes</i>						
French Guiana						
6-2N & 54.5-51.5W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	-	-	1982	1982	-
<i>Max Y Modes</i>	1	-	-	5	5	-
Grenada						
13.5-11N & 63-60W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	1	1	1	1	1	1
Guadeloupe						
17-15.5N & 62-61W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	-	-	-	1982	1982	-
<i>Max Y Modes</i>	-	-	-	5	5	-
Guyana						
9-1N & 62-56W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	1	1	1	5	5	5
Jamaica						
19-17N & 79-76W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	1	1	1	5	5	1

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Martinique						
15.5-14N & 62-60W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	1	1	1	5	5	1
Puerto Rico and US Virgin Islands						
19-17N & 68-64W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	5	3	3	5	5	1
Saint Kitts and Nevis						
19-16N & 64-61W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1999	1999	1999	1999	1999	1985
<i>Max Y Modes</i>	1	1	1	1	1	1
Saint Lucia						
14.5-13N & 61.5-60.5W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	2	2	2	2	2	1
Saint Maarten						
19-17N & 65-62W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	-	-	1982	1982	1985
<i>Max Y Modes</i>	1	-	-	1	1	1
Saint Vincent and the Grenadines						
14-12N & 62-60.5W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	1	1	1	3	3	1
Suriname						
6.5-1.5N & 58.5-53.5W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1989	-	-	1982	1982	1985
<i>Max Y Modes</i>	2	-	-	1	1	1
Trinidad and Tobago						
12-10N & 62-60W	Mean Temp.	Max. Temp.	Min Temp.	Rainfall	SPI	Wet Days
<i>Start year</i>	1982	1982	1982	1982	1982	1985
<i>Max Y Modes</i>	2	2	2	5	5	1

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