

CariCOF Drought Outlook

By the end of September 2019

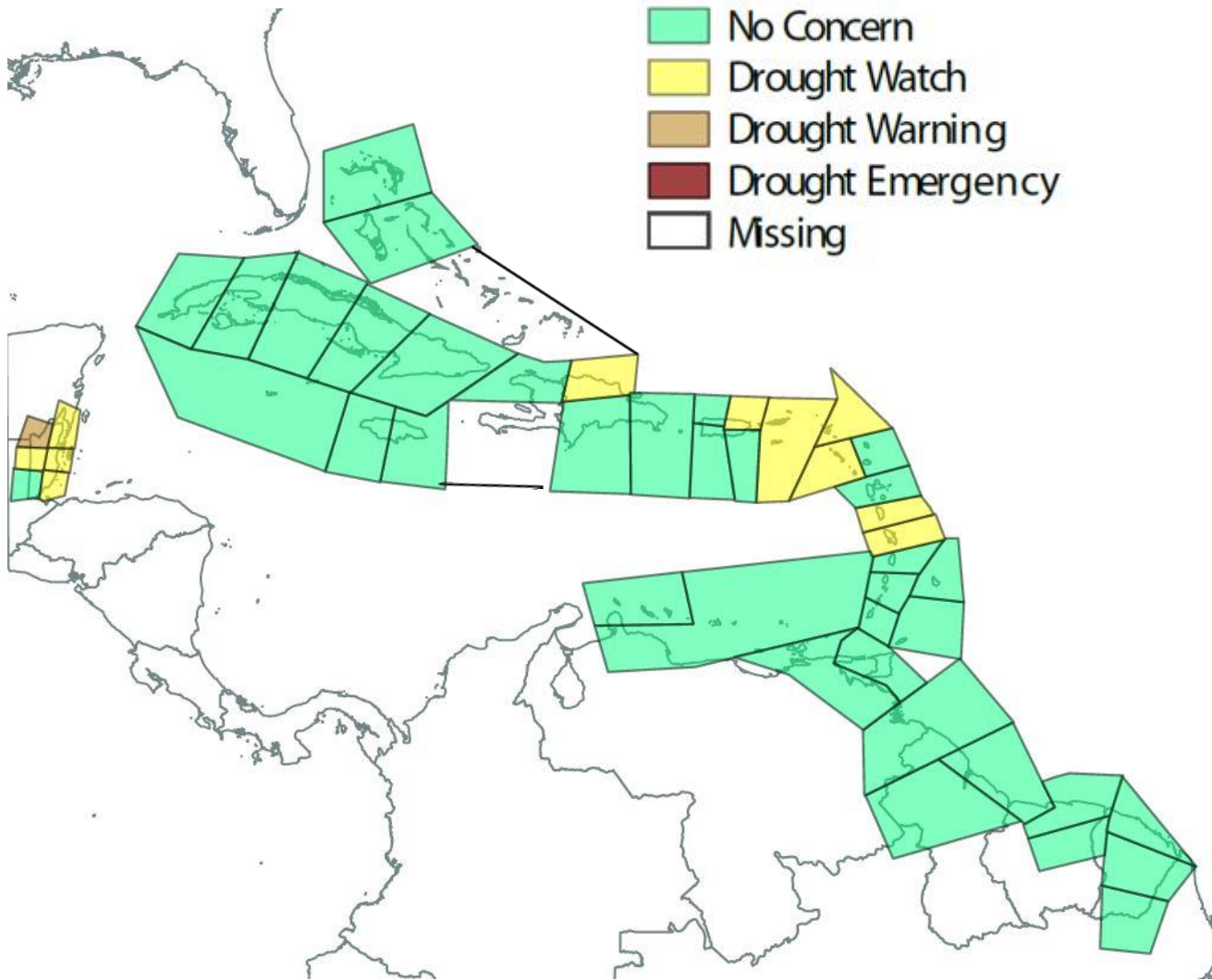
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Participating territories

Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cayman Islands, Cuba, Curaçao, Dominica, Dominican Republic, French Guiana, Grenada, Guadeloupe, Guyana, Haïti, Jamaica, Martinique, Puerto Rico, St. Barth's, St. Kitts & Nevis, St. Lucia, St. Maarten/St-Martin, St. Vincent & the Grenadines, Suriname, Trinidad & Tobago and the US Virgin Islands



What is the predicted short term drought concern by the end of September 2019?



Current update (June 2019):

We are currently in the wet season. This time around, drought concern develops throughout parts of the region.

A **drought warning** should be considered for northwestern Belize

A **drought watch** should be considered for most other parts of Belize, Dominica, northern Dominican Rep., Martinique, St. Kitts, Sint Maarten, and USVI

Short term drought alert levels by the end of September 2019

(updated June 2019 – covering April to September 2019)

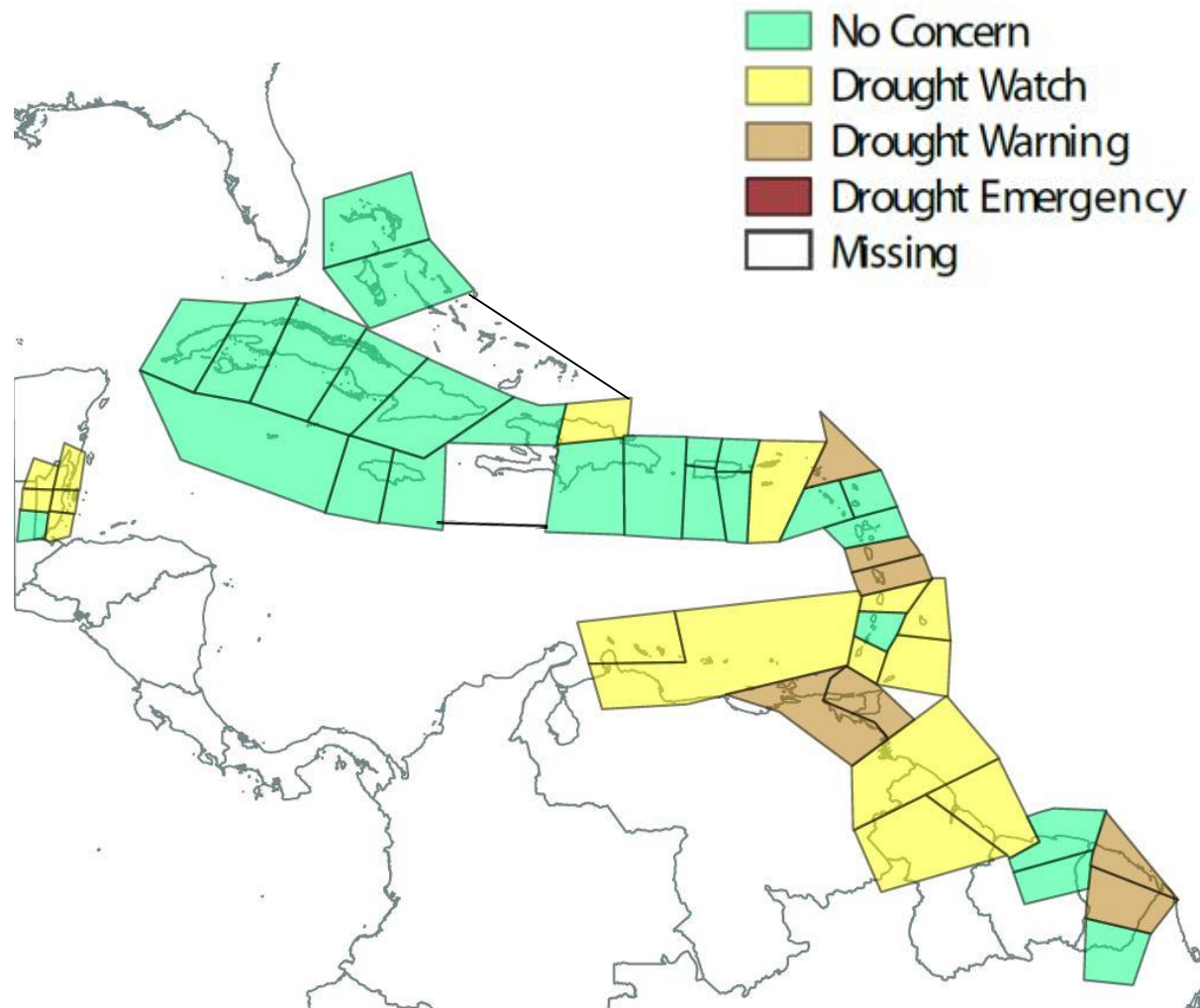
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For climate information specific to your country, please consult with your **national meteorological service**. *CariCOF outlooks speak to recent and expected climate trends across the Caribbean in general.*



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CARIBBEAN CLIMATE OUTLOOK FORUM

What is the predicted long term drought concern by the end of November 2019?



- This 12-month SPI-based drought outlook uses observations through May 2019, with potential impacts on large surface water reservoirs and groundwater. In general, impacts are expected if the 12-month SPI is ≤ -1.3 (*severely dry or worse* – ref.: CDPMN).
- A **drought warning** should be considered for Dominica, French Guiana, Martinique, Sint Maarten, and Trinidad.
- A **drought watch** should be considered for ABC islands, Barbados, most of Belize, northern Dominican Rep., Grenada, Guyana, Saint Lucia, Tobago, USVI

Long term drought alert levels by the end of the 2019 wet season

(updated June 2019 – covering December 2018 to November 2019)

Drought outlook – shorter-/longer-term concern?

- Current drought situation (up to the end of May 2019): *(more information [here](#))*
 - Severe (or worse) shorter term drought has developed in northern Belize, eastern extremities of Cuba, coastal French Guiana, the northern Leewards, western parts of Trinidad.
 - Severe (or worse) long term drought has developed in Barbados, southern Belize, southernmost Dominican Rep., French Guiana, southwestern Haiti, the northern Leewards, Martinique, Trinidad,
- Shorter term drought situation (by the end of September 2019):
 - Shorter term drought is evolving in northwestern Belize
 - Shorter term drought might possibly develop in most other parts of Belize, Dominica, Martinique, St. Kitts, Sint Maarten, and USVI.
- Long term drought situation (by the end of November 2019):
 - A weak El Niño is expected to contribute to reduced rainfall at least until after summer.
 - Long term drought is evolving in Dominica, French Guiana, Martinique, Sint Maarten, and Trinidad
 - Long term drought might possibly develop in ABC islands, Barbados, most of Belize, northern Dominican Repub., Grenada, Guyana, Saint Lucia, Tobago, USVI

** We advise all stakeholders to keep monitoring drought and look for our monthly updates.**

**CONTINUE TO MONITOR &
CONSERVE WATER !!**

ALERT LEVEL	MEANING	ACTION LEVEL
NO CONCERN	No drought concern	<ul style="list-style-type: none"> ✓ monitor resources ✓ update and ratify management plans ✓ public awareness campaigns ✓ upgrade infrastructure
DROUGHT WATCH	Drought possible	<ul style="list-style-type: none"> ✓ keep updated ✓ protect resources and conserve water ✓ implement management plans ✓ response training ✓ monitor and repair infrastructure
DROUGHT WARNING	Drought evolving	<ul style="list-style-type: none"> ✓ protect resources ✓ conserve and recycle water ✓ implement management plans ✓ release public service announcements ✓ last minute infrastructural repairs and upgrades ✓ report impacts
DROUGHT EMERGENCY	Drought of immediate concern	<ul style="list-style-type: none"> ✓ release public service announcements ✓ implement management and response plans ✓ enforce water restrictions and recycling ✓ enforce resource protection ✓ repair infrastructure ✓ report impacts



THRESHOLDS

Drought	
Alert Levels	Probabilities
No Concern	< 33.3333
Drought Watch	33.3334 – 50
Drought Warning	50 – 83.3333
Drought Emergency	≥ 83.3334

ROC	
Discrimination	Thresholds
No	< 0.5
Poor	0.5 - 0.6
Moderate	0.6 – 0.7
Fair	0.7 -0.8
Good	0.8 – 0.95
Very Good	> 0.95

Goodness Index	
Skill	Thresholds
Negative Skill	< 0
Very Limited	0 – 0.1
Limited	0.1 – 0.2
Moderate	0.2 – 0.25
Fair	0.25 -0.3
Good	> 0.3



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