

CariCOF Drought Outlook

By the end of August 2021

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Participating territories

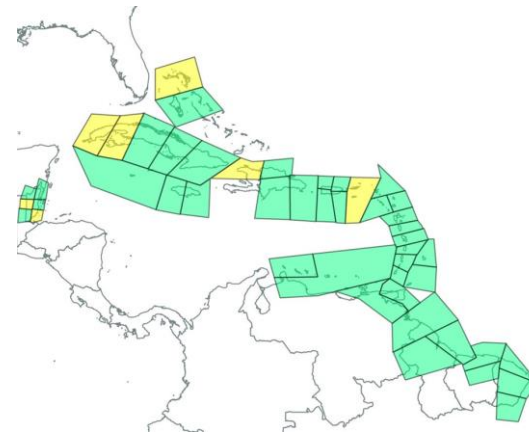
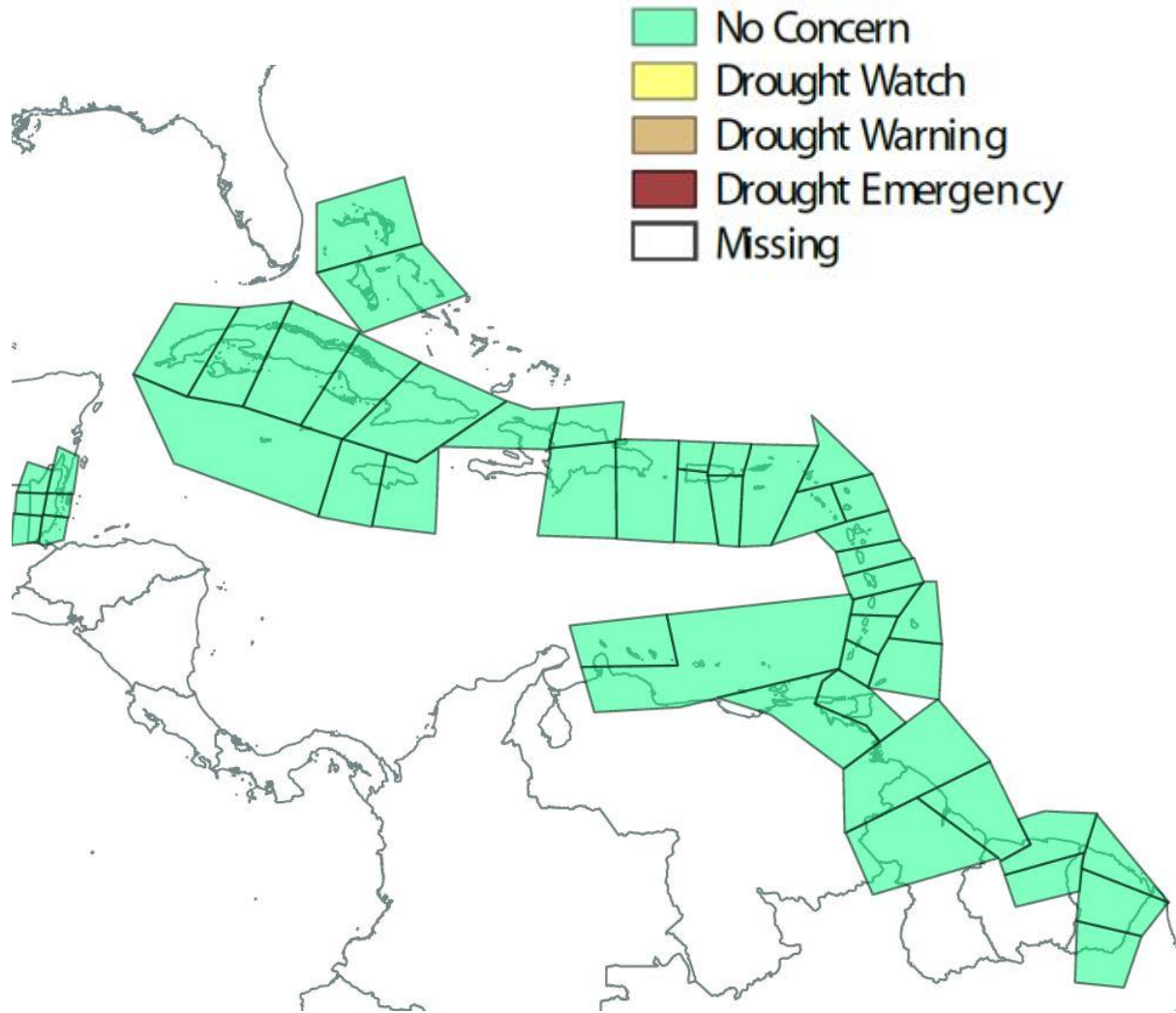
Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cayman Islands, Cuba, Curaçao, Dominica, Dominican Republic, French Guiana, Grenada, Guadeloupe, Guyana, Haïti, Jamaica, Martinique, Puerto Rico, St. Barth's, St. Kitts & Nevis, St. Lucia, St. Maarten/St-Martin, St. Vincent & the Grenadines, Suriname,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



What is the predicted short term drought concern by the end of August 2021?

Current update (May 2021):

We are entering the first half of the wet season. Currently, no major shorter term drought concern is developing throughout the region.



Previous update (April): short term drought alert levels at the end of July 2021

Short term drought alert levels at the end of August 2021

(updated May 2021 – covering March to August 2021)

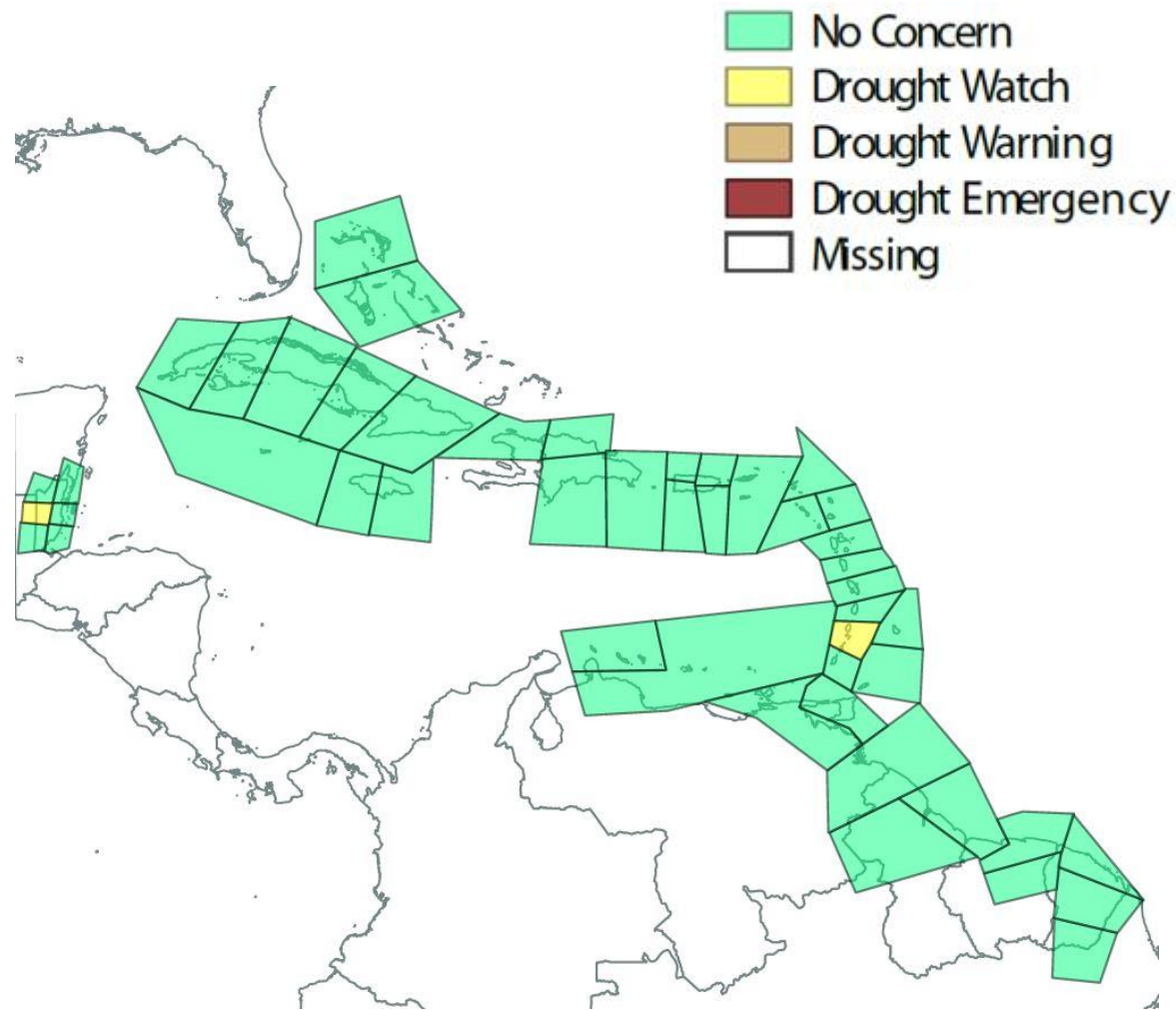
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For climate information specific to your country, please consult with your national meteorological service. *CariCOF outlooks speak to recent and expected climate trends across the Caribbean in general.*



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What is the predicted long term drought concern at the end of November 2021?



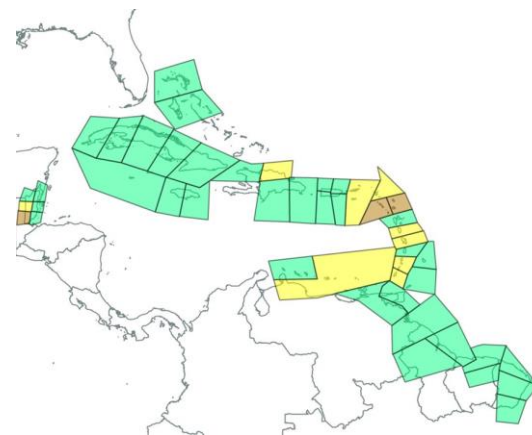
Long term drought alert levels at the end of November 2021

(updated May 2021 – covering Dec 2020 to Nov 2021)

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- This 12-month SPI-based drought outlook uses observations through April 2021, with potential impacts on large surface water reservoirs and groundwater. In general, impacts are expected if the 12-month SPI is ≤ -0.8 (*moderately dry or worse* – ref.: CDPMN).
- A **drought watch** should be considered for west-central Belize and St. Vincent and the Grenadines.



Previous update (April): long term drought alert levels by the end of May 2021



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Drought outlook – shorter-/longer-term concern?

- Current drought situation (up to the end of April 2021): *(more information [here](#))*
 - Moderate (or worse) short term drought has developed in Antigua, most parts of The Bahamas, southwest Belize, Cuba, southeastern- and southeastern-most Hispaniola, St. Kitts, Sint Maarten/St-Martin.
 - Moderate (or worse) long term drought has developed in southwest Belize, along the southern coast of Hispaniola, St. Croix, St. Kitts and the west coasts of the Windward Islands.
- Shorter term drought situation (by the end of August 2021):
 - Short term drought is not expected.
- Long term drought situation (by the end of May 2021):
 - Long term drought might possibly develop in west-central Belize and St. Vincent and the Grenadines.

** 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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