

CariCOF Drought Outlooks

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Short term drought concerns by the end of January 2021
Long term drought concerns by the end of November 2020

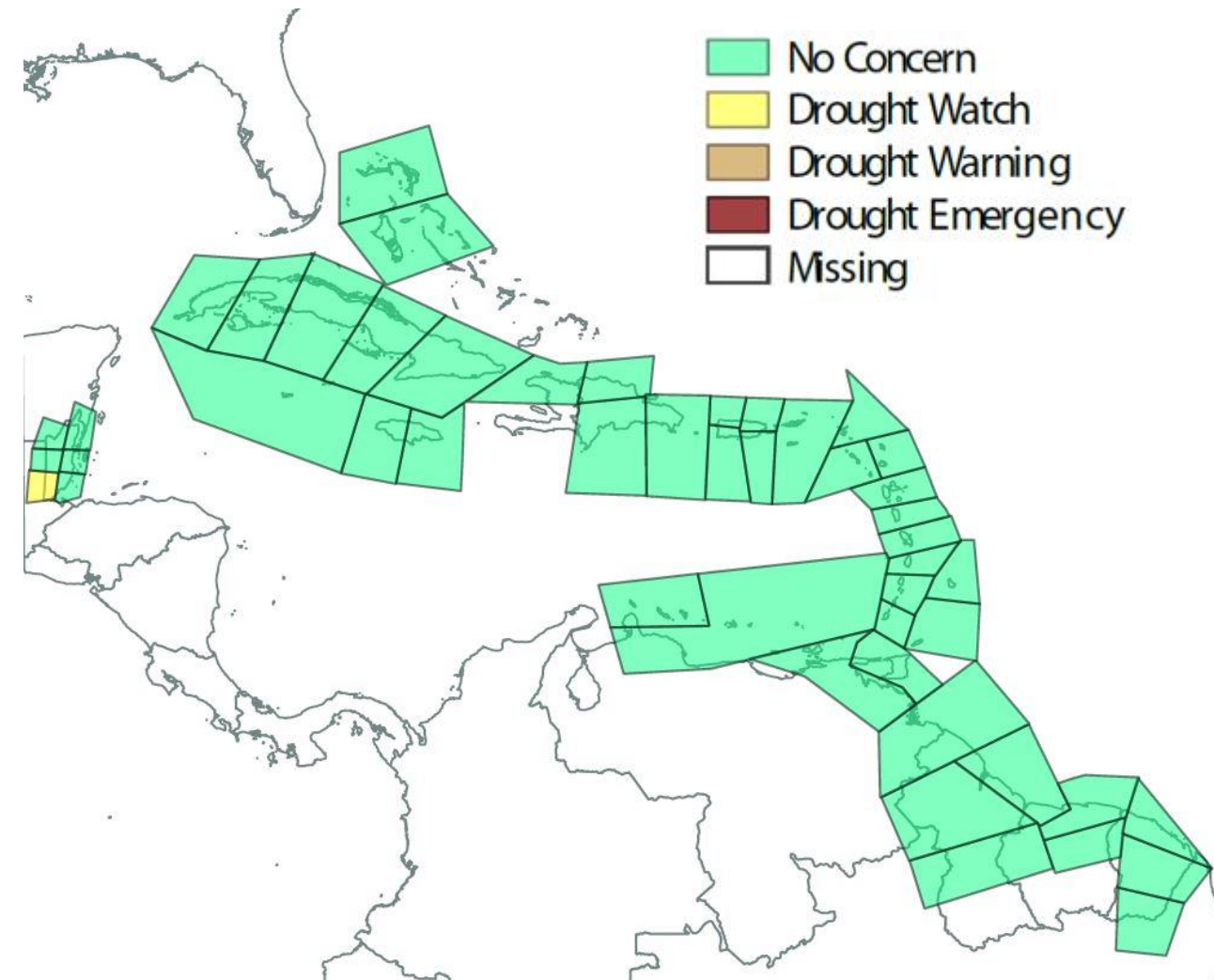
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Participating territories

Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cayman Islands, Cuba, Curaçao, Dominica, Dominican Republic, French Guiana, Grenada, Guadeloupe, Guyana, Haiti, 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



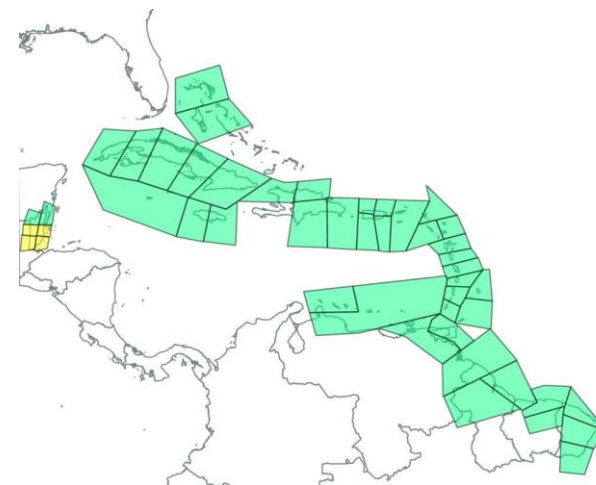
What is the predicted short term drought concern by the end of January 2021?



Current update (October 2020):

We are currently in the wet season.

- A **drought watch** should be considered for southwest Belize.



Previous short term drought alert levels by the end of November 2020

Suggested alert levels for short term drought at the end of January 2020

(updated October 2020 – covering August 2020 to January 2021)

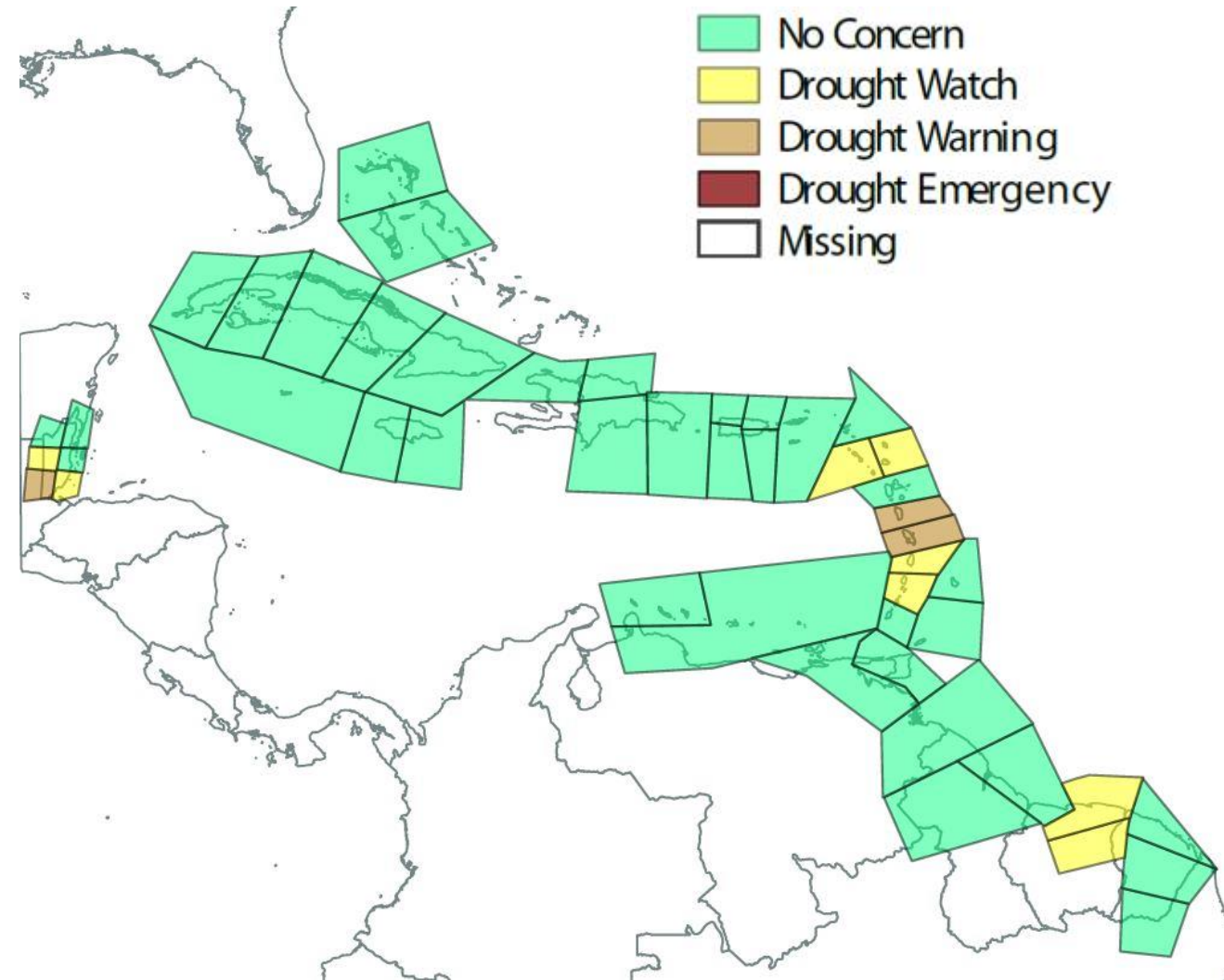
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For climate information specific to your country, please consult with your national meteorological service. *CariCOF outlooks speak to recent and expected climate trends across the Caribbean in general.*



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What is the predicted long term drought concern by the end of November 2020?



Suggested alert levels for long term drought at the end of November 2020

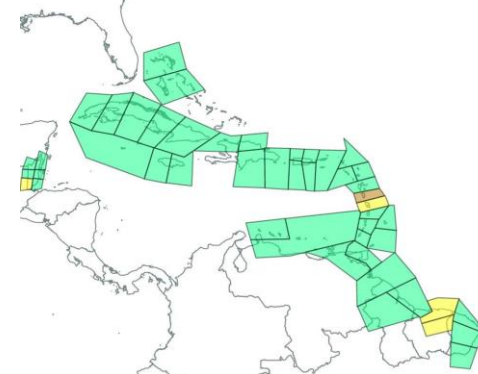
(updated October 2020 – covering December 2019 to November 2020)

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Current update (October 2020):

- This 12-month SPI-based drought outlook uses observations through September 2020, with potential impacts on large surface water reservoirs and groundwater. In general, impacts are expected if the 12-month SPI is ≤ -1.3 (*very dry or worse* – ref.: CDPMN).
- A **drought warning** should be considered for southwest Belize, Dominica and Martinique.
- A **drought watch** should be considered for Antigua, western and southeast Belize, St. Kitts, Saint Lucia, St. Vincent, and Suriname



Previous (i.e. September 2020 update) long term drought alert levels by the end of November 2020



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Drought outlook – shorter-/longer-term concern?

- Current drought situation (at the end of September 2020): *(more information [here](#))*
 - Severe (or worse) shorter term drought has developed in Belize and St. Vincent.
 - Severe (or worse) long term drought has developed in western Belize, central parts of the Dominican Rep., western French Guiana, eastern Guadeloupe, northernmost Guyana, Martinique, Saint Lucia, St. Vincent, and eastern Suriname.
 - Shorter term drought situation (by the end of January 2021):
 - Short term drought might possibly develop or continue for parts of southwestern Belize.
 - Long term drought situation (by the end of November 2020):
 - Long term drought is evolving in southwest Belize, Dominica and Martinique.
 - Long term drought might possibly develop or continue in Antigua, southwest Belize, St. Kitts, Saint Lucia, St. Vincent, and Suriname.
 - Areas ending up in long term drought by the end of November may experience **water levels in large reservoirs, large rivers and groundwater that are lower than usual, which would become a concern for the 2020-21 dry season.**
- * 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 <i>caricof@cimh.edu.bb</i>	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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