

CariCOF Drought Outlook

By the end of January 2022

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Participating territories

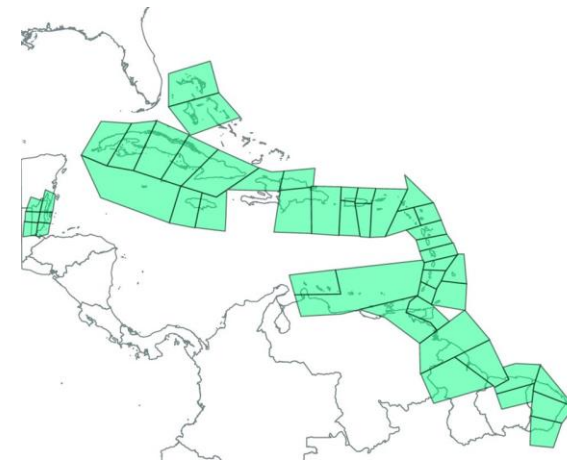
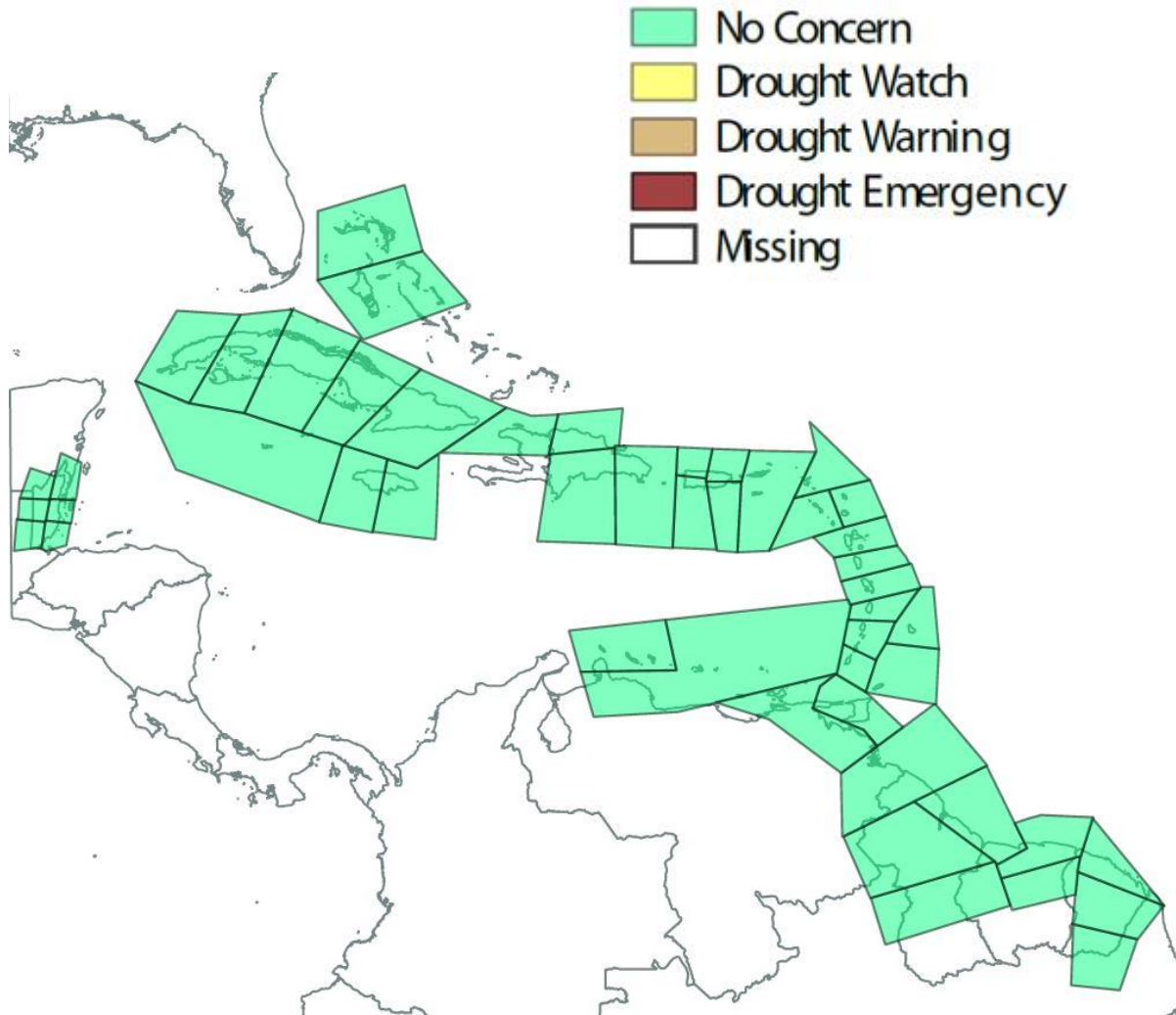
Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cayman Islands, Cuba, Curaçao, Dominica, Dominican Republic, French Guiana, Grenada, Guadeloupe, Guyana, Haïti, Jamaica, Martinique, Puerto Rico, St. Barth's, St. Kitts & Nevis, St. Lucia, St. Maarten/St-Martin, St. Vincent & the Grenadines, Suriname,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



What is the predicted short term drought concern by the end of January 2022?

Current update (October 2022):

- We are currently in the wet season.
- **No short term drought concern** for the region by January.



Short term drought alert levels at the end of January 2022

(updated **October 2021** – based on a 6-month SPI for August 2021 to January 2022)

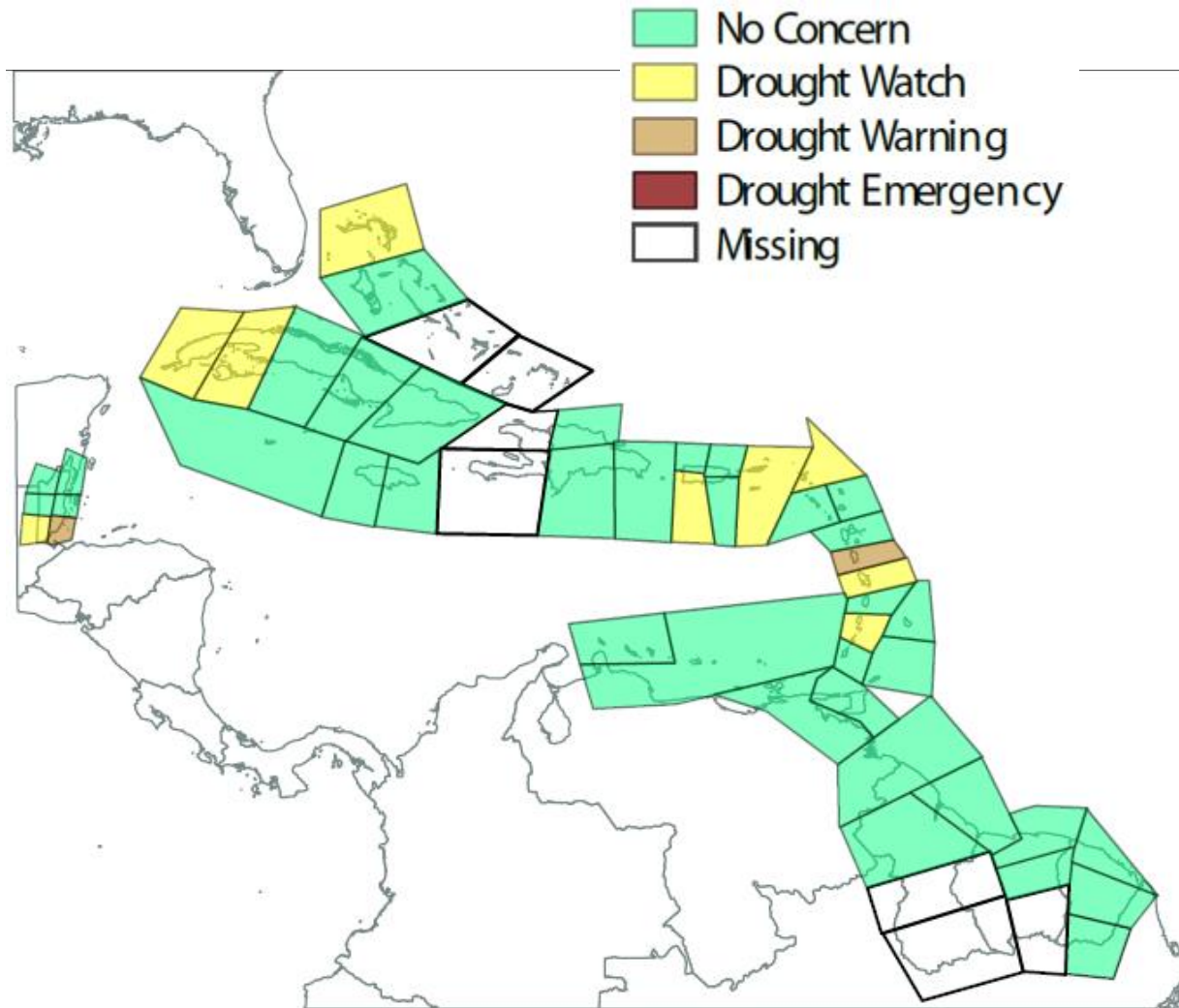
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For climate information specific to your country, please consult with your **national meteorological service**. *CariCOF outlooks speak to recent and expected climate trends across the Caribbean in general.*



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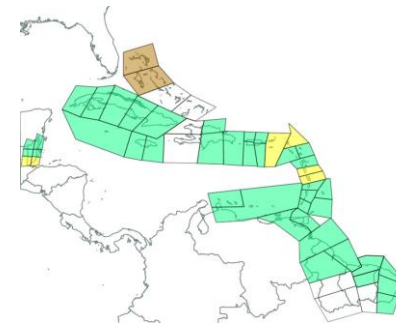
What is the predicted long term drought concern at the end of November 2021?



Long term drought alert levels at the end of November 2021

(updated October 2021 – based on a 12-month SPI for Dec 2020 to Nov 2021)

- This 12-month SPI-based drought outlook uses observations through September 2021, 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 southeast Belize and Dominica.
- A **drought watch** should be considered for the northernmost Bahamas, southwest Belize, Western Cuba, Martinique, Sint Maarten / St-Martin, St. Vincent, and the USVI.



Previous update (September):
long term drought alert levels by
the end of Nov 2021

Drought outlook – shorter-/longer-term concern?

- Current drought situation (up to the end of August 2021): *(more information [here](#))*
 - Severe (or worse) short term drought has developed in northwestern and southeastern portions of The Bahamas, northern Belize, westernmost Cuba, easternmost Guadeloupe, northwest Martinique and St. Barth's.
 - Severe long term drought has developed in northwest Martinique, St. Barth's and St. Croix.
- Shorter term drought situation (by the end of January 2022):
 - There is no concern for short term drought for the region at the end of January 2022.
- Long term drought situation (by the end of November 2021):
 - Long term drought is evolving in southeast Belize and Dominica.
 - Long term drought might possibly develop or continue in the northernmost Bahamas, southwest Belize, Western Cuba, Martinique, Sint Maarten / St-Martin, St. Vincent, and the USVI.
 - Areas ending up in long term drought by the end of November may experience lower than usual water levels in large reservoirs, large rivers and groundwater, which would become a concern for the 2021-'22 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	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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