

# CariCOF Drought Outlook

**By the end of April 2019**

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## Participating territories

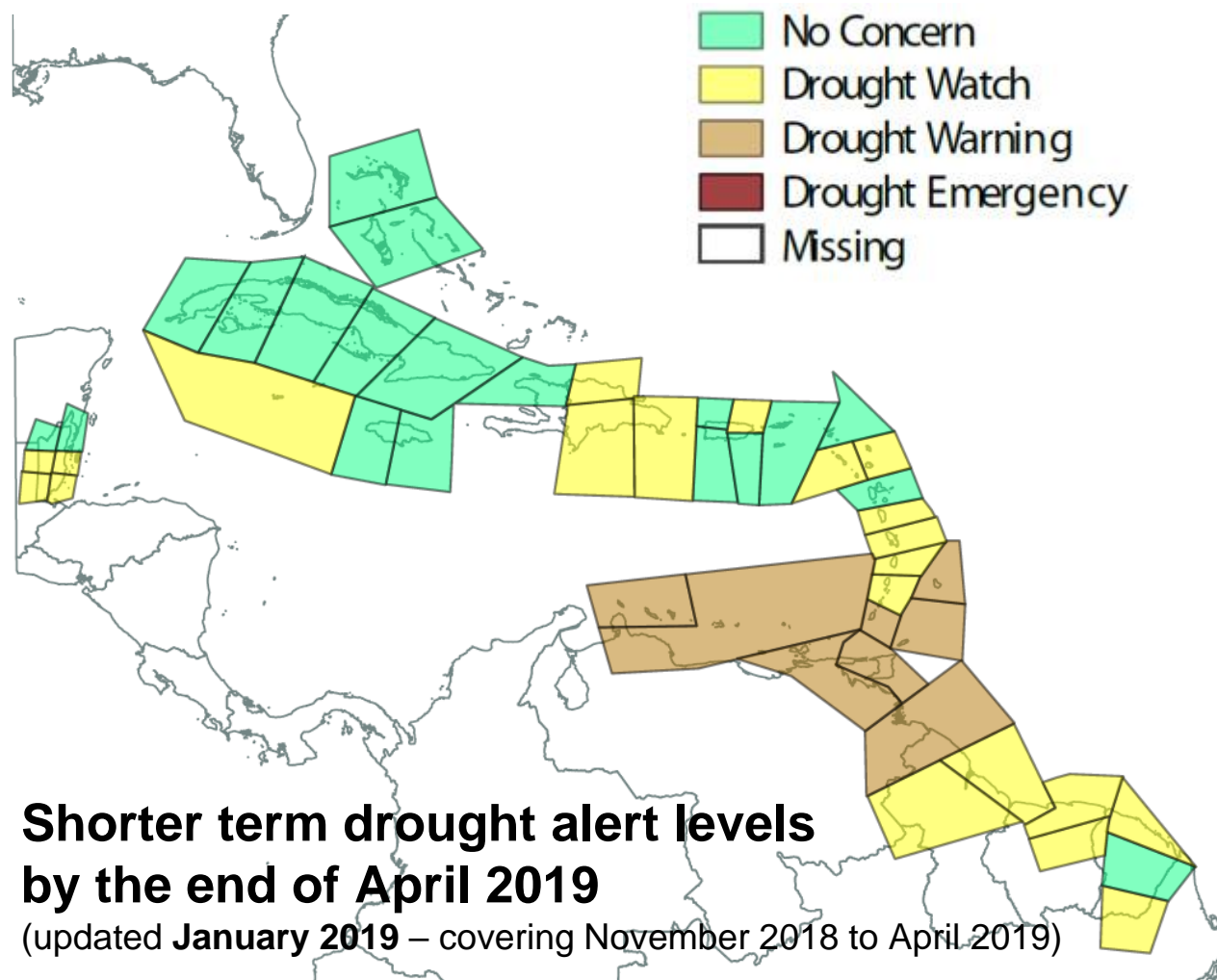
Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Cayman Islands, Cuba, Curaçao, Dominica, Dominican Republic, French Guiana, Grenada, Guadeloupe, Guyana, Haïti, Jamaica, Martinique, Puerto Rico, St. Barth's, St. Kitts & Nevis, St. Lucia, St. Maarten/St. Martin, St. Vincent & the Grenadines, Suriname,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



# Shorter term Drought Outlook (November 2018 to April 2019)

## Areas under immediate drought concern?

### Current Outlook



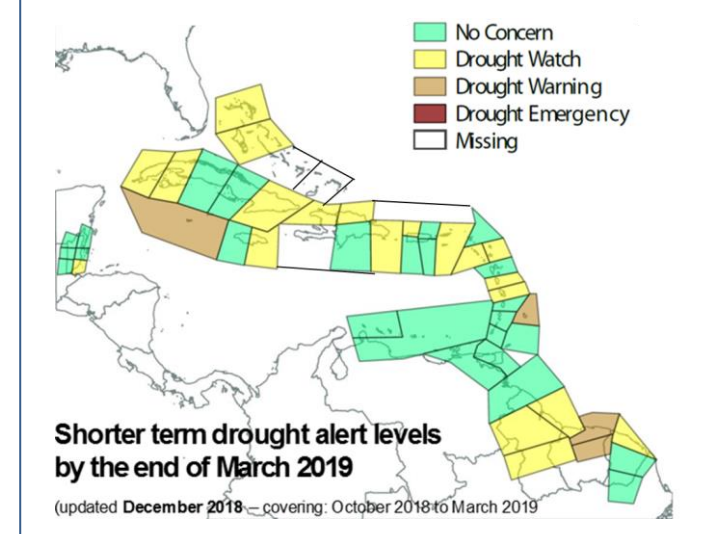
### Current update (December 2018):

We are currently entering the core of the dry season. This time around, drought concern develops throughout much of the region.

A **drought warning** should be considered for the ABC Islands, Barbados, Grenada, Trinidad & Tobago.

A **drought watch** should be considered for Antigua, southern and central Belize, Cayman, N & S French Guiana, Guyana, Hispaniola, Martinique, NE Puerto Rico, St. Kitts, St. Vincent, Suriname.

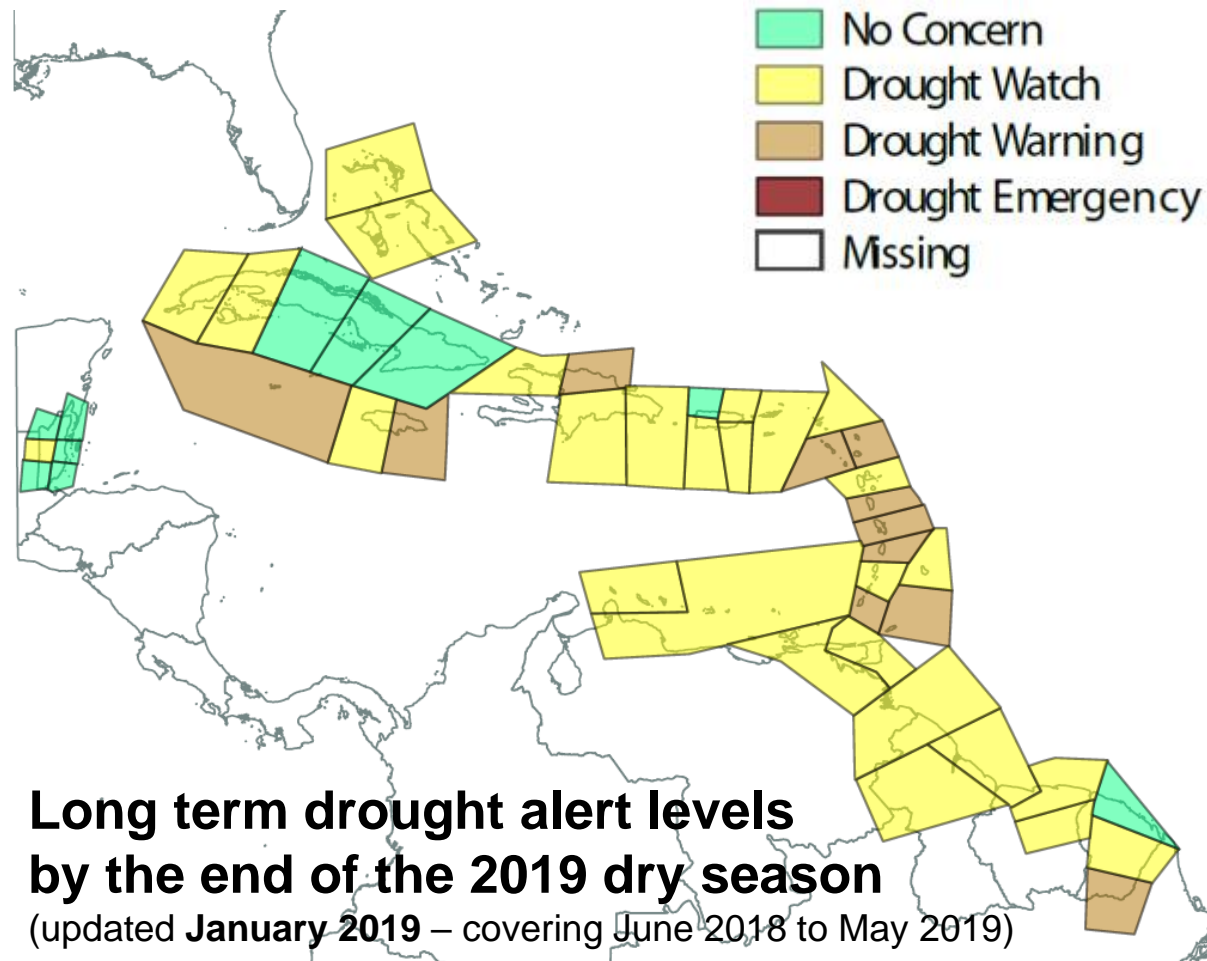
### Previous Outlook



# Long term drought outlook

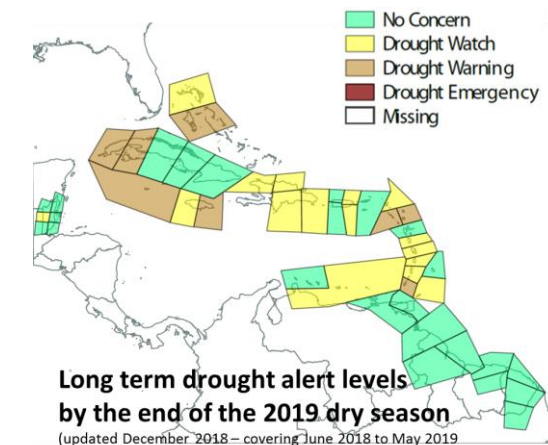
Concerns by the end of the dry season (May 31<sup>st</sup>, 2019)?

## Current Outlook



- This 12-month SPI-based drought outlook uses observations through December 2018, with potential impacts on large surface water reservoirs and groundwater. In general, impacts are expected if the 12-month SPI is  $\leq -0.8$  (*moderately dry or worse* – ref.: CDPMN).
- A **drought warning** should be considered for Antigua, Cayman, NW Cuba, N Dominican Rep., Grenada, Martinique, NE Puerto Rico, Tobago.
- A **drought watch** should be considered in most other locations.

## Previous Outlook



# Drought outlook – shorter-/longer-term concern?

- Current drought situation (up to the end of December 2018): *(more information [here](#))*
  - Portions of The Bahamas, Barbados, Belize, Cayman Isl., Guadeloupe, coastal Guyana, Hispaniola, Jamaica, Martinique, St. Barth's, Trinidad and the US C'bean Territories have seen shorter term drought developing.
  - Moderate long term drought is seen in much of Antilles, with even severe to extreme droughts in small pockets of Guadeloupe, Hispaniola and Martinique, but with the notable exception of Cuba.
- Shorter term drought situation (by the end of April 2019):
  - Shorter term drought is evolving in the ABC Islands, Barbados, Grenada, Trinidad & Tobago.
  - Shorter term drought might possibly develop in Antigua, southern and central Belize, Cayman, N & S French Guiana, Guyana, Hispaniola, Martinique, NE Puerto Rico, St. Kitts, St. Vincent, Suriname.
- Long term drought situation (by the end of May 2019):
  - A weak El Niño is expected to contribute to reduced rainfall up until April.
  - Long term drought is evolving in Antigua, Cayman, NW Cuba, N Dominican Rep., Grenada, Martinique, NE Puerto Rico, Tobago.
  - Long term drought might possibly develop in most other areas in the region.

*\* 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"> <li>✓ <b>monitor resources</b></li> <li>✓ update and ratify management plans</li> <li>✓ public awareness campaigns</li> <li>✓ upgrade infrastructure</li> </ul>
DROUGHT WATCH	Drought possible	<ul style="list-style-type: none"> <li>✓ <b>keep updated</b></li> <li>✓ protect resources and conserve water</li> <li>✓ implement management plans</li> <li>✓ response training</li> <li>✓ monitor and repair infrastructure</li> </ul>
DROUGHT WARNING	Drought evolving	<ul style="list-style-type: none"> <li>✓ <b>protect resources</b></li> <li>✓ conserve and recycle water</li> <li>✓ implement management plans</li> <li>✓ release public service announcements</li> <li>✓ last minute infrastructural repairs and upgrades</li> <li>✓ report impacts</li> </ul>
DROUGHT EMERGENCY	Drought of immediate concern	<ul style="list-style-type: none"> <li>✓ <b>release public service announcements</b></li> <li>✓ implement management and response plans</li> <li>✓ enforce water restrictions and recycling</li> <li>✓ enforce resource protection</li> <li>✓ repair infrastructure</li> <li>✓ report impacts</li> </ul>





# 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