CariCOF Drought Outlook By the end of July 2018

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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



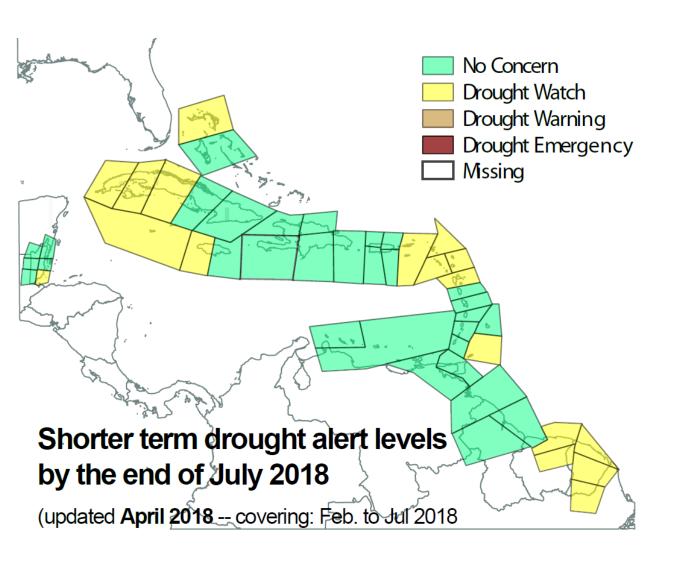


CIMH

Shorter term Drought Outlook (February to July 2018)

Areas under immediate drought concern?

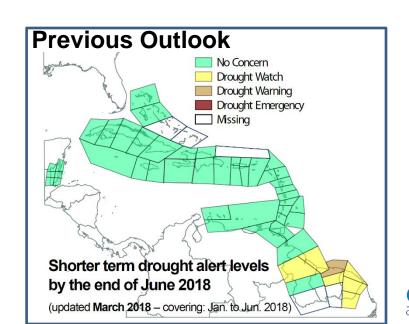
Current Outlook



Current update (April 2018):

We continue to see no drought concern developing throughout most of the region. Exceptions are:

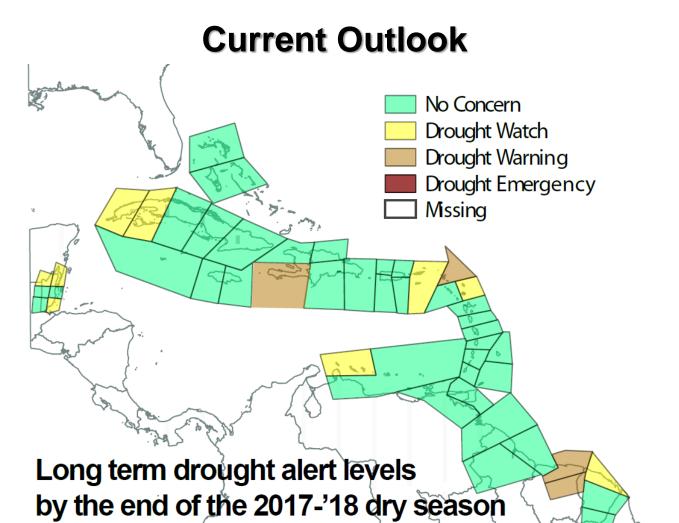
A **drought watch** is issued for Antigua, N Bahamas, SE Belize, W Cuba, French Guiana, Guadeloupe, St. Maarten, St. Kitts, central Suriname, Tobago, Virgin Is.





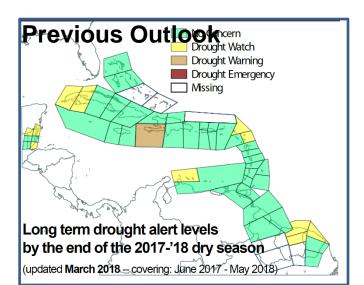
Long term drought outlook

Concerns by the end of the dry season (May 31st, 2018)?



(updated April 2018 - covering: June 2017 - May 2018)

- This 12-month SPI-based drought outlook uses observations through March 2018, with potential impacts on large surface water reserves and groundwater. In general, impacts are expected if the 12-month SPI is ≤-0.8 (moderately dry or worse – ref.: CDPMN).
- A drought warning is in effect for St. Maarten / St. Martin, Suriname, SE Haiti.
- A drought watch is in effect for ABC Islands, Antigua, N & SE Belize, W Cuba, N French Guiana, N French Guiana and Virgin Is..





Drought outlook – shorter-/longer-term concern?

- Current drought situation (up to the end of March 2018): (more information here)
 - Copious rainfall during the wet season of 2017 and no large deficits having been built up since the start of the Caribbean dry season in most places.
 - Southeastern Haiti, north-western most Guyana, south-western most Jamaica, western-most Puerto Rico is under long term drought.
 - Short term drought is seen NW Guyana.
- Shorter term drought situation (by the end of July 2018):
 - Shorter term drought is evolving in coastal portions of Suriname, and might possibly develop in other portions of the Guianas.
- Long term drought situation (by the end of May 2018):
 - Long term drought is evolving in southeastern Haiti, and might possibly develop in ABC Is.,
 Antigua, western Cuba, northern and south-eastern Belize, coastal portions of French Guiana, St.
 Maarten, and portions of eastern Suriname.
 - 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	 ✓ monitor resources ✓ update and ratify management plans ✓ public awareness campaigns ✓ upgrade infrastructure
DROUGHT WATCH	Drought possible	 ✓ keep updated ✓ protect resources and conserve water ✓ implement management plans ✓ response training ✓ monitor and repair infrastructure
DROUGHT WARNING	Drought evolving	 ✓ protect resources ✓ conserve and recycle water ✓ implement management plans ✓ release public service announcements ✓ last minute infrastructural repairs and upgrades ✓ report impacts
DROUGHT EMERGENCY caricof@cimh.edu.bb	Drought of immediate concern	 ✓ 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		
		Discri	mination	Thresholds
		No		< 0.5
		Poor		0.5 0.6
		Mode	erate	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			

