





(January - May 2019)

"Towards More Informed Preparation"

Climatologist Kenneth Kerr





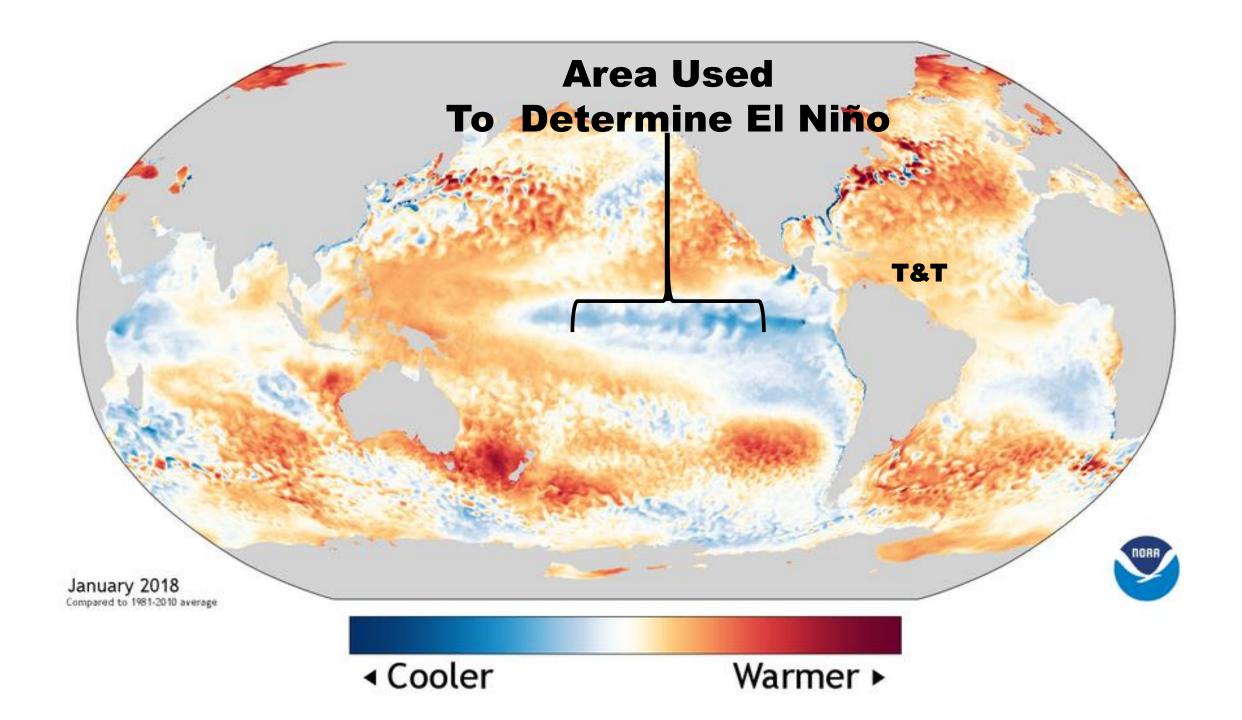


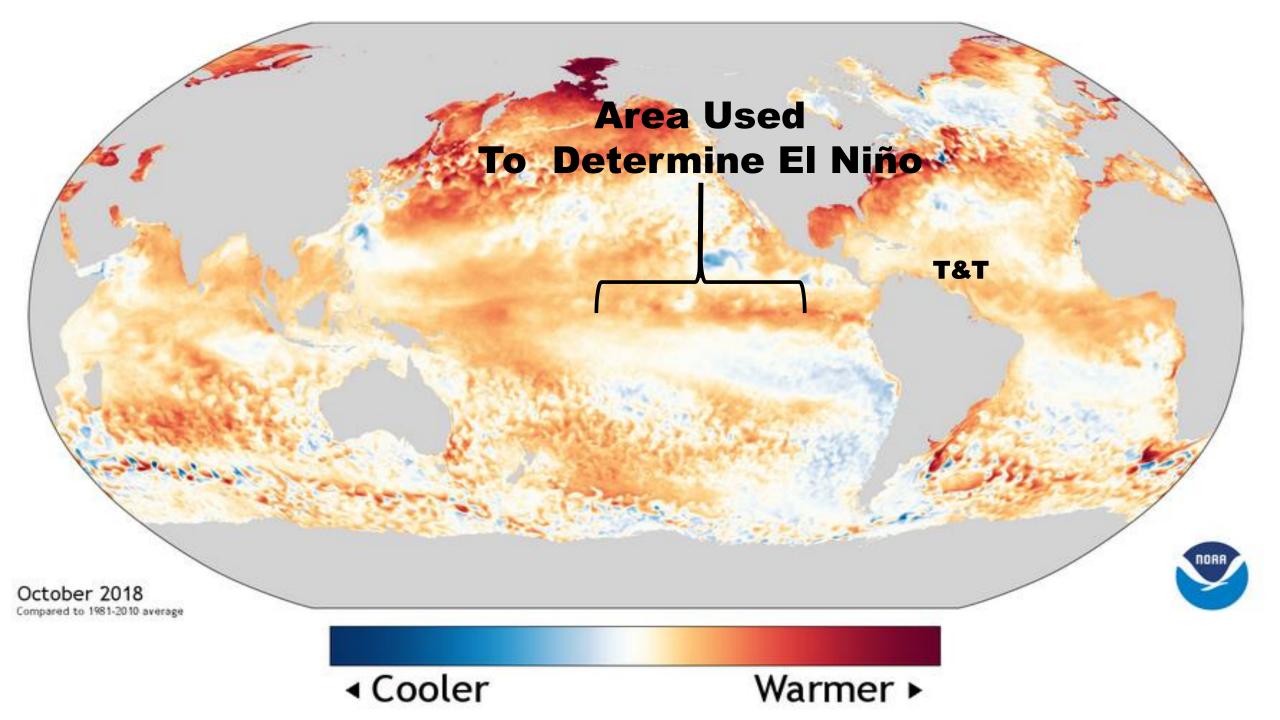


T&T 2018 Dry Season Climate Influencers (Drivers)

- ☐ El Niño-Southern Oscillation (ENSO)
- ☐ Sea Surface Temperatures around T&T
- ☐ Arctic Oscillation (AO)
- ☐ North Atlantic Oscillation (NAO)
- □ Madden-Julian Oscillation (MJO)





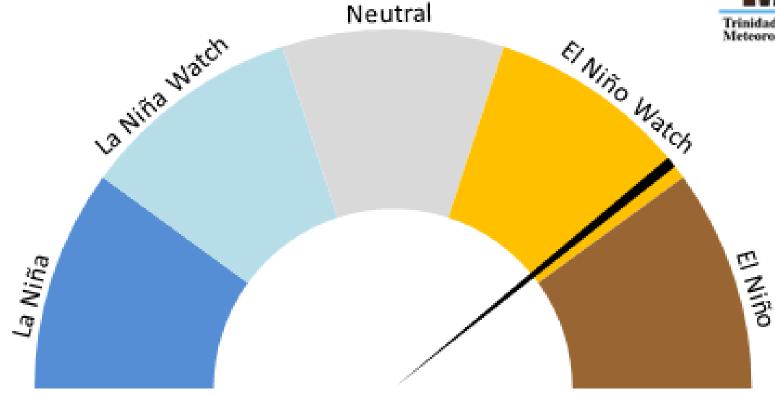


El Niño/La Niña Watch

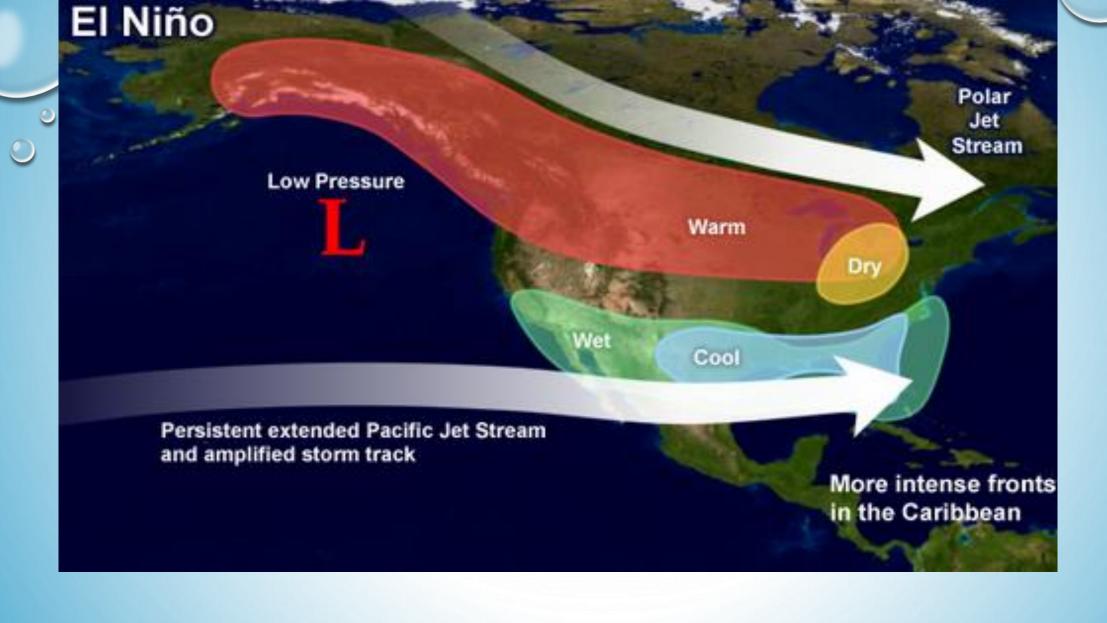


ENSO OUTLOOK





Main Climate Influencer



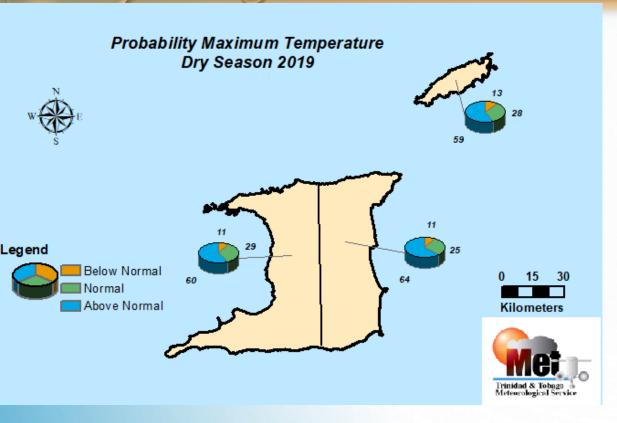
During El Niño winters storms track further south than usual

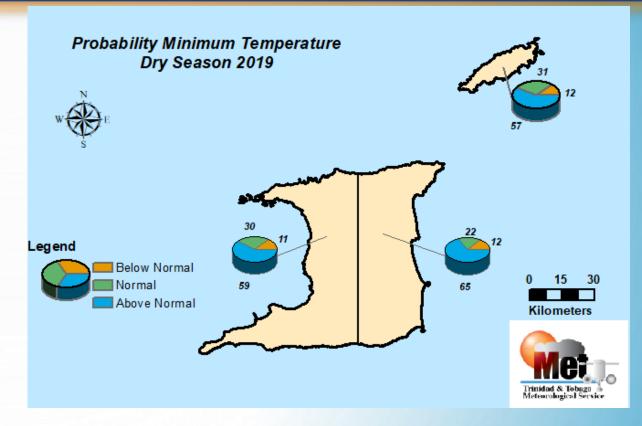
HAZARDOUS SEAS OUTLOOK

- ☐ Likely increased frequency of long-period swell events over the southern Caribbean
- ☐ Higher than usual number of rough and hazardous sea events for Trinidad and Tobago
- ☐ Greater potential for coastal losses and damages



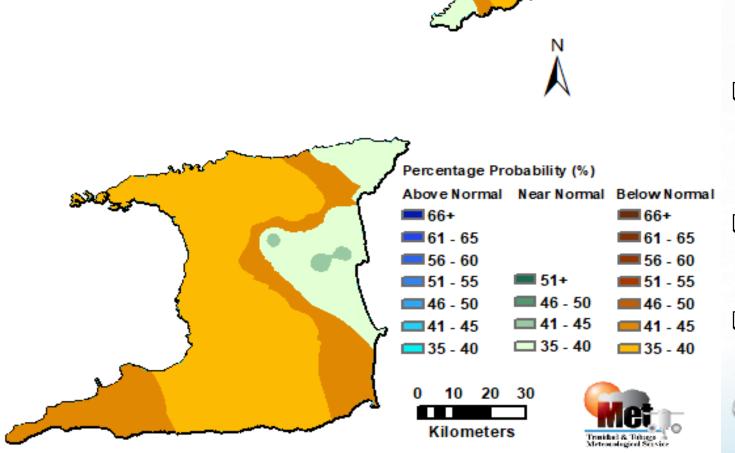
2019 DRY SEASON TEMPERATURE OUTLOOK





- **WARMER-THAN-NORMAL CONDITIONS MOST LIKELY FOR BOTH DAY & NIGHT TEMPERATURES**
- ☐ LARGER THAN USUAL NUMBER OF HOT DAYS DURING LATE FEBRUARY TO MAY (GREATER THAN 34°C TRINIDAD, 32°C TOBAGO)
- ☐ SINGLE-DAY EXTREMES AT SPECIFIC POINT AND LONG-DURATION WARM SPELLS ARE ENHANCED

HARSH 2019 DRY SEASON AHEAD DRY SEASON RAINFALL IS LIKELY TO BE AS SCARCE AS GOLD



Probability of Most Likely Category of Rainfall

Dry Season 2019

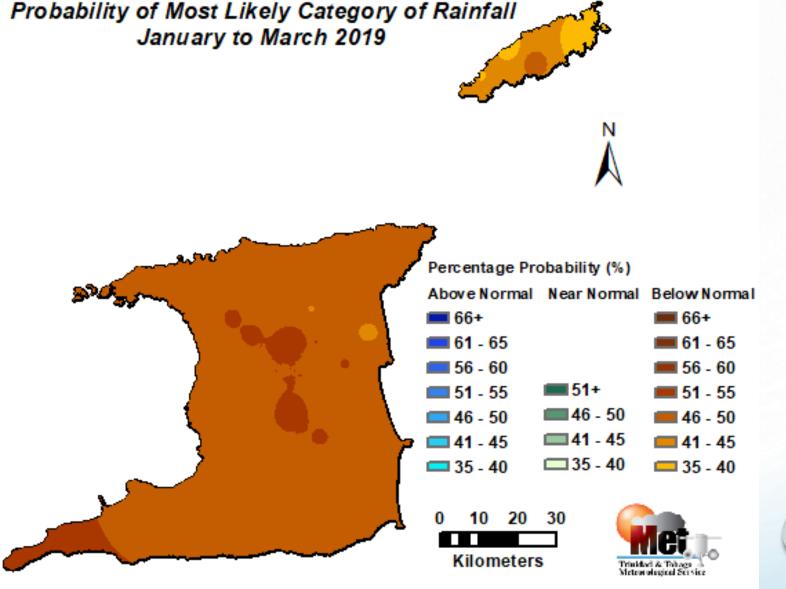
SUPPRESSED RAINFALL EXPECTED

□ NEAR TO BELOW NORMAL RAINFALL

MOST AREAS DRIER THAN USUAL

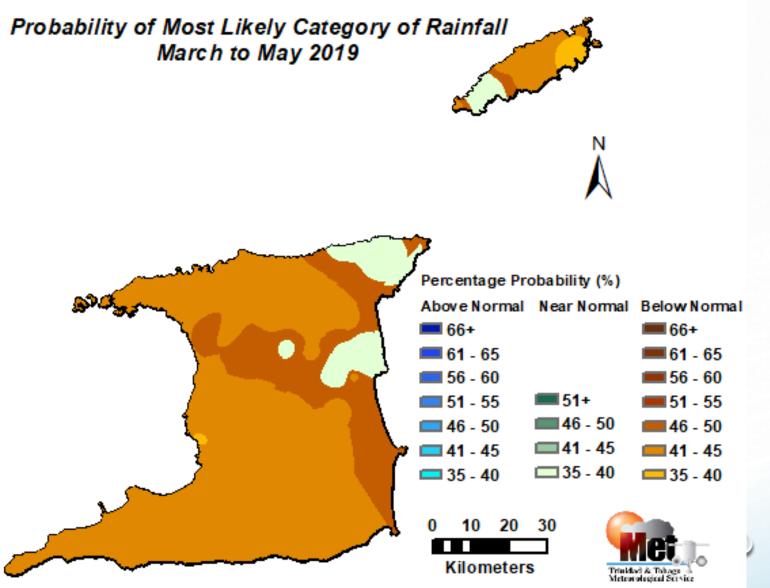
□FEW AREAS JUST AS DRY AS USUAL

SUB-SEASON: JANUARY TO MARCH



- □ ENHANCED CHANCES FOR BELOW NORMAL RAINFALL
- □STRENGTHENING OF DRYNESS IN FEBRUARY AND MARCH
- **IMPACTS:**
- **DEXTREME DRYNESS**
- □PROLONGED DRY SPELLS
- □SHORT-TERM DROUGHT-LIKE CONDITIONS BY LATE MARCH

SUB-SEASON: MARCH TO MAY

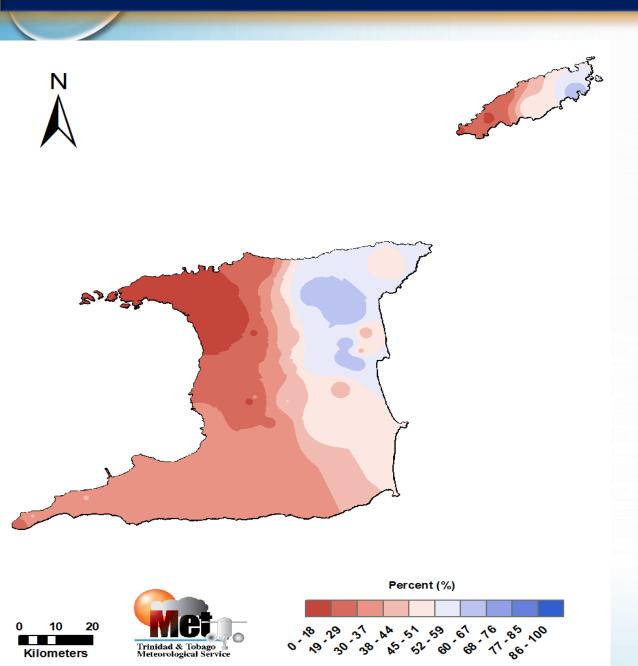


UNEAR- TO BELOW NORMAL

□EARLY RAINS IN MAY
LIKELY TO INFLUENCE
OVERALL RAINFALL
TOTALS

OF 2019 WET SEASON IN MAY

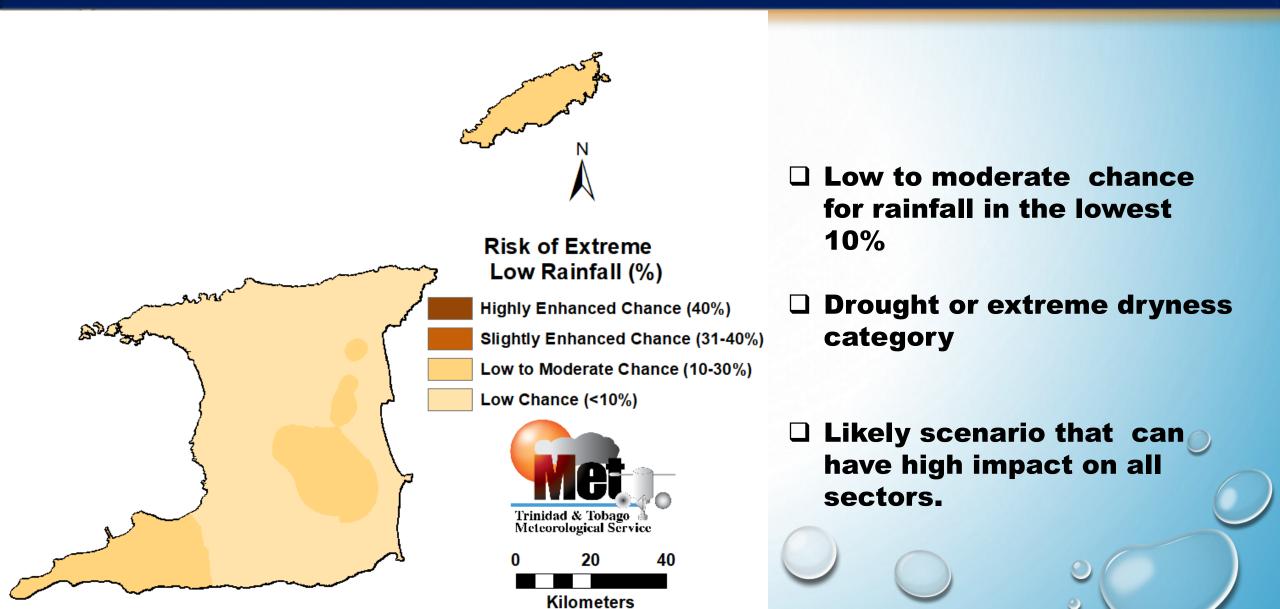
Chance Of At Least National Dry Season Average



45-65 % for eastern areas getting at least 434 mm (National Dry Season Average)

Less than 50% elsewhere

CHANCE OF 2019 DRY SEASON RAINFALL WITHIN THE LOWEST 10% OF ALL DRY SEASONS ON RECORD



DIFFICULT BUSH/LANDFILL FIRE SEASON AHEAD

Extreme events

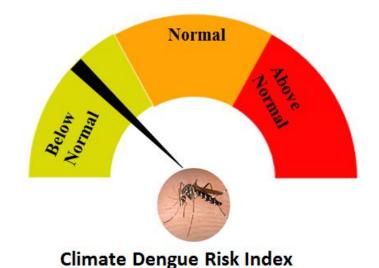
Enhanced bush and landfill fire-potential exist:

■ Much drier than usual conditions

☐ Increased maximum temperatures

Enhanced risks for bush and landfill fires during February, March and early April

Slash-and-burn methods of land clearance has a higher than usual chance of triggering bush and forest fires



BELOW NORMAL NUMBER OF CASES FOR THE ST DAVID/ST ANDREW COUNTY

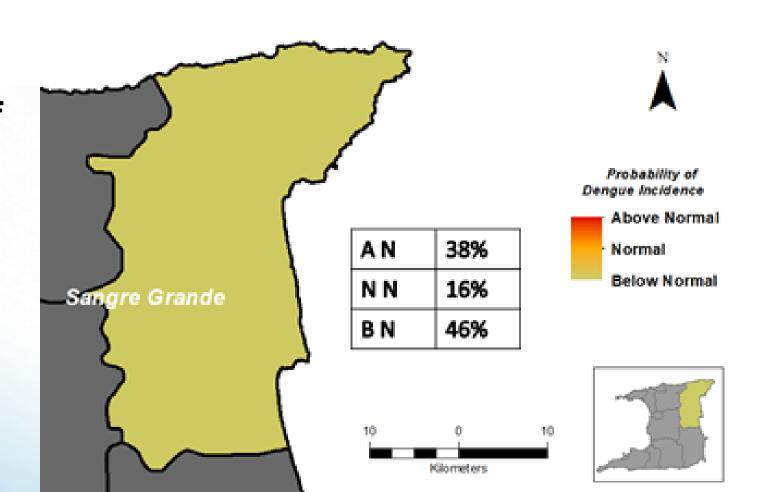
MOST LIKELY NUMBER OF CASES = 122

WORST CASE= 236

BEST CASE = 6

CLIMATE-BASED DENGUE INCIDENCE RISK OUTLOOK

Probability of Dengue Cases January to May 2019



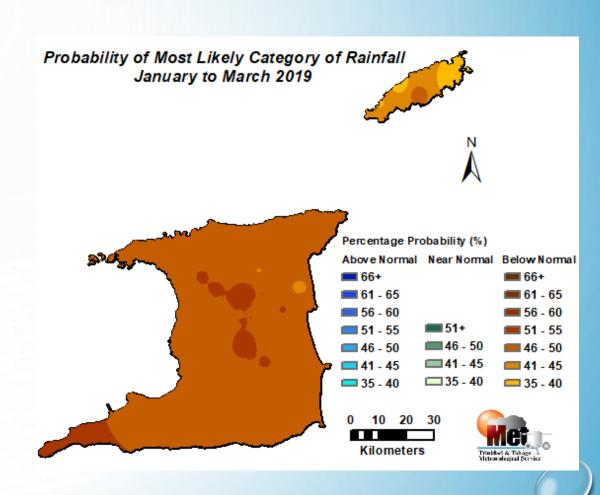
HEADLINE MESSAGES

LESS RAIN:

- DRY SPELLS/DROUGHT
- ☐ REDUCED WATER AVAILABILITY
- **□ INCREASED WATER STRESS**

PRESSURE ON:

- **DFARMERS**
- **WATER RESOURCE MANAGEMENT**
- **WATER INTENSIVE SECTORS**



HEADLINE MESSAGES

WARMER DAYS & NIGHTS:

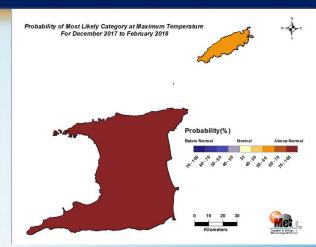
- **DAILY HEAT EXTREMES MORE COMMON**
- **MULTI-DAY HOT SPELLS MORE COMMON**

HOT DAYS CAN:

- ☐ INCREASE THE RISK OF DEHYDRATION AND OTHER HEAT RELATED STRESSORS
- ☐ MOST VULNERABLE ARE SOCIALLY ISOLATED, ELDERLY, YOUNG CHILDREN, YOUNG LIVESTOCK

HIGH BUSHFIRE POTENTIAL:

- ☐ RISK OF LARGER NUMBER OF BUSHFIRES AND LARGER ACREAGE OF VEGETATION BURNT
- **□ POORER AIR QUALITY**
- **□ PRESSURE ON PERSONS SUFFERING FROM RESPIRATORY AILMENTS**
- **□ INCREASED PRESSURE OF HEALTH SECTOR**







National Climate Outlook Forum (NCOF) 8

Preparedness to Mitigate Climate- Related Impacts from El Niño and El Niño-like Conditions



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