

# STATE OF THE CLIMATE IN 2016

Jessica Blunden and Derek S. Arndt, Eds.

This document is a supplement to State of the Climate in 2016, by Jessica Blunden and Derek S. Arndt, Eds. [Bull. Amer. Meteor. Soc., 98 (8), ESI-ES17] • ©2017 American Meteorological Society • DOI:10.1175/2017BAMSStateoftheClimate.2



Chapter 2: Global Climate—R. J. H. Dunn, D. F. Hurst, N. Gobron, and K. M. Willett, Eds.

# **NASA GISS**

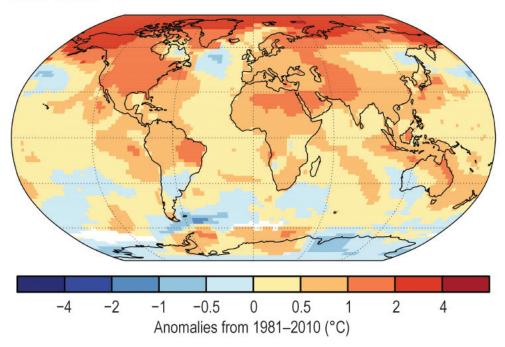


Fig. S2.1. NASA GISS surface temperature (~2-m air temperature over land, sea surface temperature over ocean; °C) annual anomaly for 2016 relative to the 1981–2010 base period.

# HadCRUT 4.5

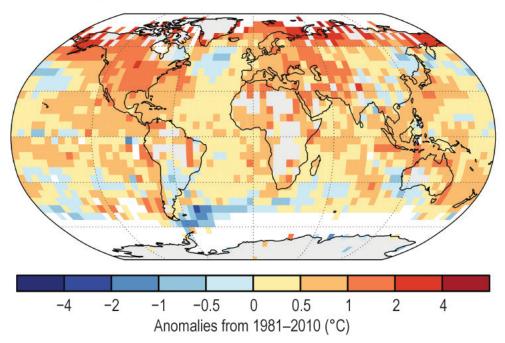


Fig. S2.2. HadCRUT4.5 surface temperature (~2-m air temperature over land, sea surface temperature over ocean; °C) annual anomaly for 2016 relative to the 1981–2010 base period.

# **ERA-Interim**

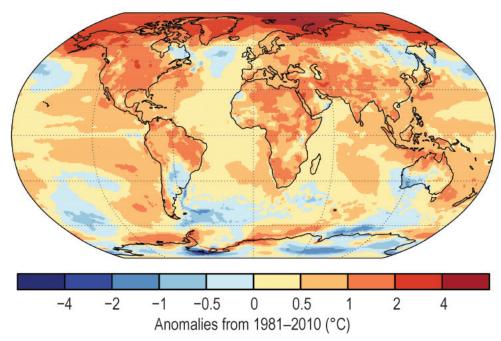


Fig. S2.3. ERA-Interim surface air temperature (2-m; °C) annual anomaly for 2016 relative to the 1981–2010 base period.

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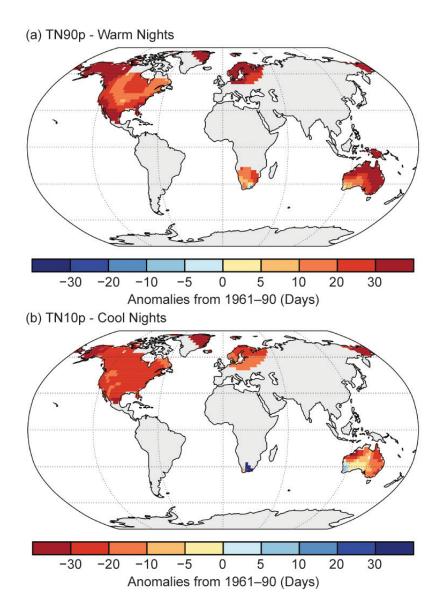


Fig. S2.4. TN90p and TN10p (warm and cool nights) annual anomalies in 2016 (GHCNDEX), in days.

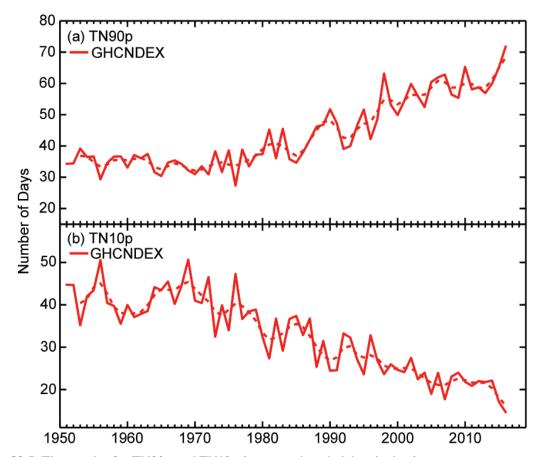


Fig. \$2.5. Time series for TN90p and TN10p (warm and cool nights; in days).

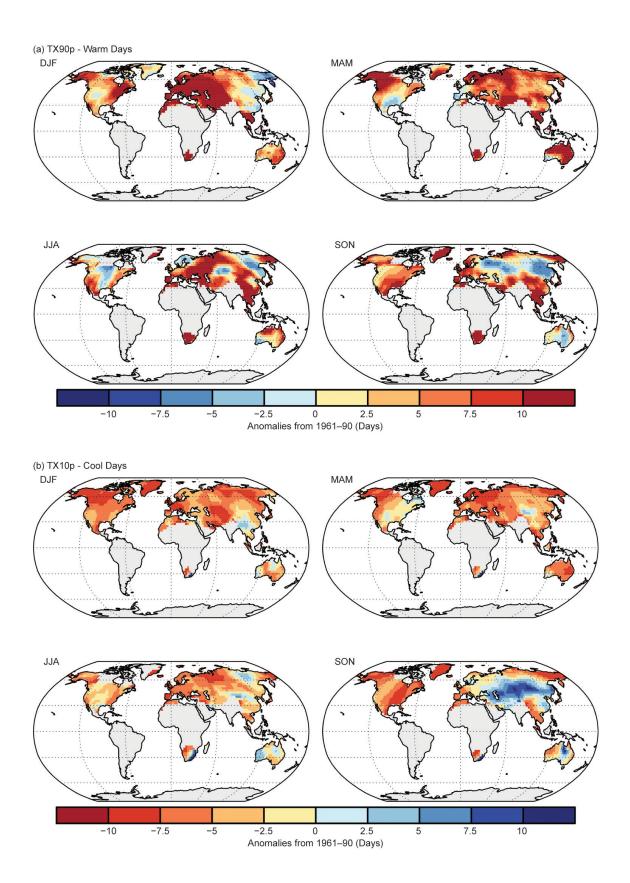
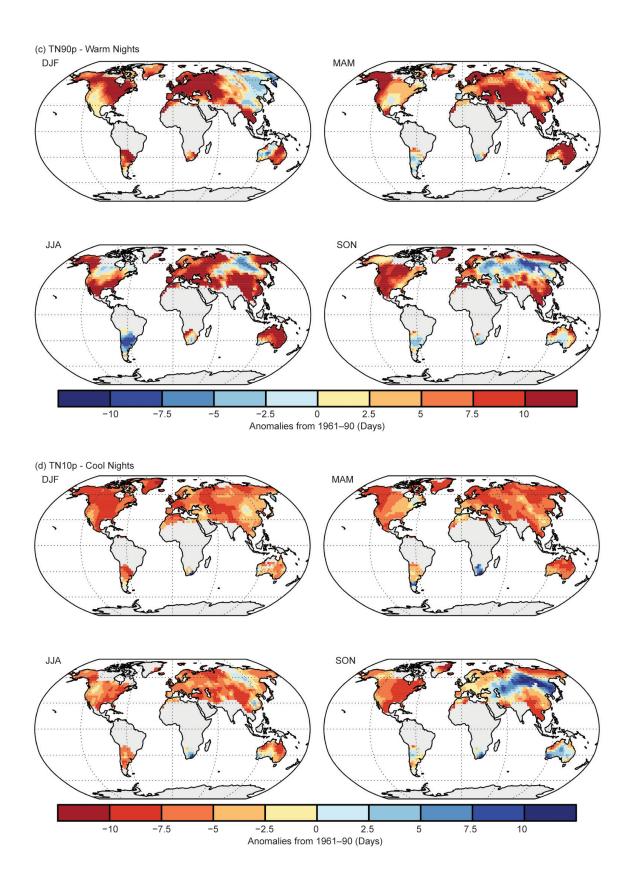


Fig. S2.6. Seasonal anomalies for (a) TX90p, (b) TX10p, and on the next page, (c) TN90p and (d) TN10p (GHCNDEX; in days).



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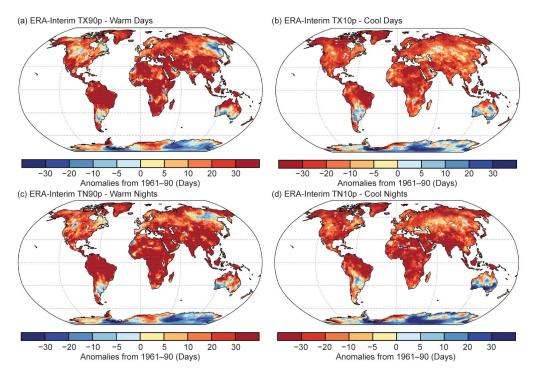


Fig. \$2.7. Annual anomalies from ERA-Interim for TX90p, TX10p, TN90p, and TN10p (in days).

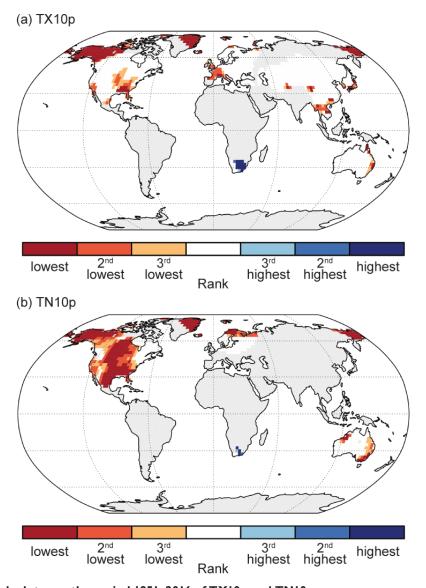


Fig. \$2.8. Rank plot over the period 1951–2016 of TX10p and TN10p.

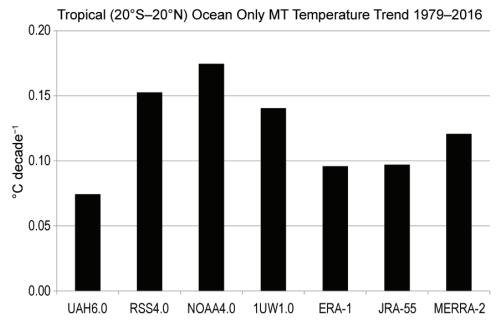


Fig. S2.9. 1979–2015 trend of midtropospheric temperature (°C decade-1) over oceans 30°N–30°S from four satellite datasets and the ERA-I reanalyses.

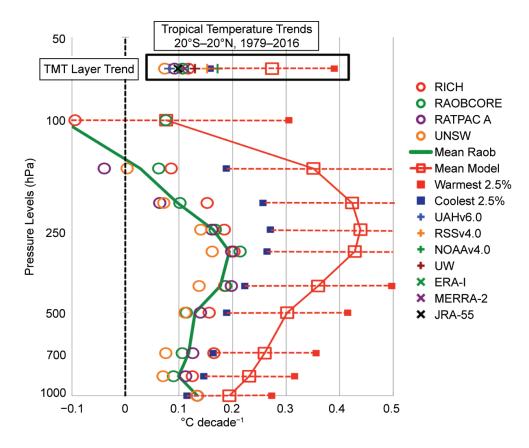


Fig. S2.10. Temperature trends (°C decade-1) for the tropics at various tropospheric levels for 1979–2016. The top box indicates trends for the tropical atmospheric layer known as the midtroposphere (TMT) and includes satellite observations. The CMIP-5 (rcp4.5) model output of 102 runs was used for the mean and range of model trends. The horizontal dashed lines represent the range within which 95% of the model trends occurred.

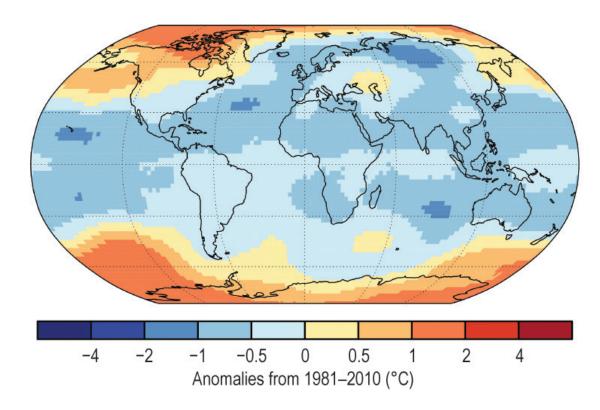


Fig. S2.11. Annual gridded TLS anomalies (°C) in 2016 from MERRA-2.

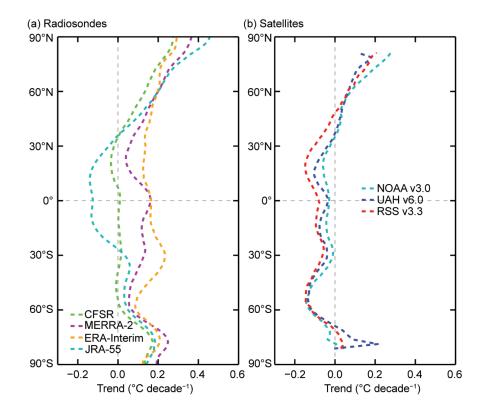


Fig. S2.12. (a) Annual trends (°C decade-1) from 1994–2016 at all latitudes for the CFSR, MERRA-2, ERA-I, and JRA-55 reanalyses and (b), annual trends (°C decade-1) from 1994–2016 at all latitudes for the UAH, RSS, and NOAA TLS CDRs.

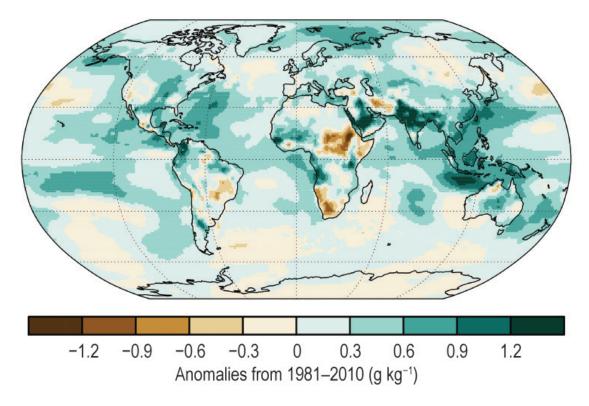


Fig. S2.13. Annual average anomaly for 2016 surface specific humidity (g kg<sup>-1</sup>) from ERA-Interim (1981–2010 base period).

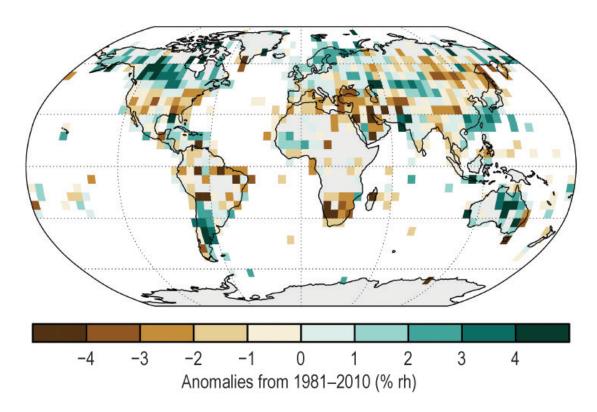


Fig. S2.14. Annual average anomaly for 2016 surface relative humidity (%) over land from HadISDH (1981–2010 base period).

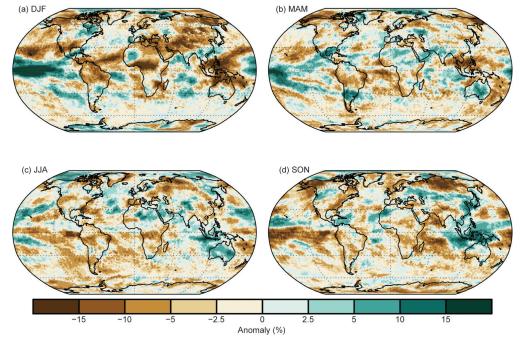


Fig. S2.15. Global seasonal cloudiness anomaly map (%) for 2016 generated from the 30-year PATMOS-x/AVHRR cloud climatology (1981–2010 base period).

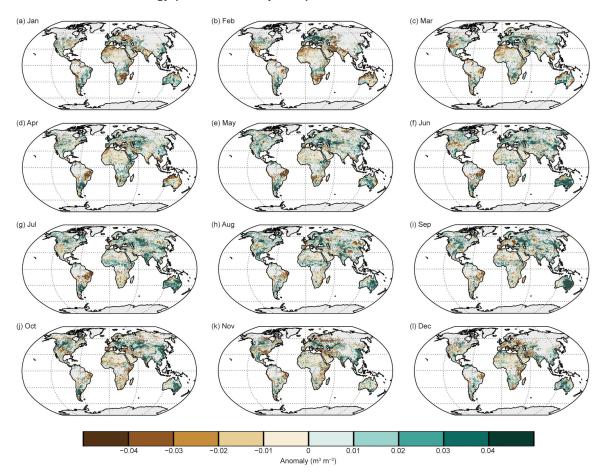


Fig. S2.16. Monthly soil moisture anomalies (m³ m-³) for 2016 (base period: 1991-2015). Data were masked as missing where retrievals are either not possible or of very low quality (dense forests, frozen soil, snow, ice, etc.). (Source: ESA CCI Soil Moisture.)

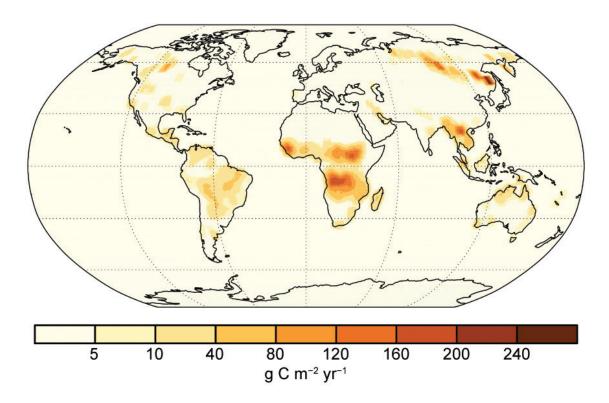


Fig. S2.17. Global map of fire activity in 2016 in terms of carbon consumption. (Source: GFASvI.3.)

#### Chapter 7: Regional Climates—A. Mekonnen, J. A. Renwick, and A. Sánchez-Lugo, Eds.

Online tables 7.1 and 7.2 supplement main report section 7c: Central America and the Caribbean

Online Table 7.1. Summary of events and impacts, including number of fatalities (f), missing people (m), affected people (a), injured people (i), number of affected families (h), and damaged houses (d), by country and specific region. [Data sources, Guatemala: www.redhum.org; Belize: www.cdema.org; Central America: National Weather Services and National Emergency Committees communications and regional newspapers].

National Weather Services and National Emergency Committees communications and regional newspapers]										
Country	Specific Region	Dates (2016)	Hydrometeorogical Conditions	Impacts						
amá	Parque Lefvre and Río Abajo	10 May	Heavy rainfall and floods	168a						
	Paso Canoas and San Isidro, Chiriqui province	05 Sep	Heavy rainfall and floods	93d						
Panamá	Los Santos and Herrera provinces	19 Oct	Rainfall and floods associated with a low pressure system	614a, 117d						
	Province of Panama, Colón, Bocas del Toro and Chiriqui	22 Nov	Rainfall and floods associated with Hurricane Otto	8f, 2431a						
	Tárcoles, Puntarenas	18 Jul	Heavy rainfall associated with a tropical wave	2f, 2i						
	Curubandé Liberia, Guanacaste	05 Aug	Rainfall and floods associated with Hurricane Earl	3f						
	Quepos	25 Aug	Heavy rainfall	I8h						
Rica	Corredores, Osa, Golfito, and Pérez Zeledón	I2 Sep	Rainfall, floods, and landslides associated with a low pressure system	135d						
Costa Rica	Cartago province	06 Oct	Heavy rainfall associated with Hurricane Matthew	153a, 21d						
O	Golfito, Corredores, and Osa	I7 Nov	Rainfall and floods associated with a cold front and low pressure system systems	70h						
	Alajuela, Cartago, Guanacaste, Heredia, and Limón provinces	24 Nov	Heavy rainfall and floods associated with Hurricane Otto	10f, 10831a, 1610d						
	Upala, El Carmen	I7 Dec	Heavy rainfall and floods	25a						
	Managua	29 May	Rainfall and floods associated with a low pressure system	509a, 98d						
na	Caribbean Coast	09 Jul	Heavy rainfall and floods	8905a, 1699d						
Nicaragua	Nueva Segovia	04 Aug	Rainfall and floods associated with Hurricane Earl	20d						
Ż	Madriz, Nueva Segovia, Estelí, Boaco, Jinotega, León, and Managua	18 Oct	Rainfall and floods associated with a low pressure system	2f, 709d						
	Regions of Caribe Sur, Rio San Juan, Rivas, and Zelaya Central	24 Nov	Rainfall and floods associated with Hurricane Otto	II 678a, 857d						
El Salvador	Western, Central, and Eastern region	08 Jul	Heavy rainfall associated with a tropical wave	5i. IId						
	Municipality Ciudad Arce, Department La Libertad	20 Jul	Rainfall and floods associated with a tropical wave	lf						
	La Paz, Morazán, La Unión, and San Miguel Departments	18 Oct	Rainfall and floods associated with a low pressure system	60h, 163d						

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Online Table 7.1. (CONT.) Summary of events and impacts, including number of fatalities (f), missing people (m), affected people (a), injured people (i), number of affected families (h), and damaged houses (d), by country and specific region. [Data sources, Guatemala: www.redhum.org; Belize: www.cdema.org; Central America: National Weather Services and National Emergency Committees communications and regional newspapers].

Departments of Cortes, Yoró, and Atlantida  Soledad, El Paraiso Department  Departments of Colon, Gracias a Dios, Cortes and Islas de la Bahía  Tegucigalpa  29 Aug  Rainfall and floods associated with a low pressure system  San Juan Comalapa, and Chimaltenango  El Armeño, Municipality Las Cruces, Petén  Villa Canales, Guatemala  Departments of Suchitepéquez, Alta Verapaz, Esquintla, and Zubal  Petén and Quiché  Quatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Guatemala  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Guatemala  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Guatemala  Departments of Guatemala  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  16 Oct  Rainfall and floods associated with a low pressure system  Rainfall, floods, and landslides  17 Aug  Rainfall, floods, and landslides  Rainfall, floods, and landslides  18 Aug  Rainfall, floods, and landslides  Rainfall, floods, and landslides  19 Apr  Heavy rain and strong winds  10 Apr  Heavy rain and strong winds  10 Apr  Heavy rainfall, floods, and landslides  10 Apr  Rainfall and floods  10 Apr  Rainfall and floods  10 Apr  Rainfall, floods, and landslides  11 Apr  Rainfall and floods  12 Apr  Rainfall, floods, and landslides  13 Apr  Rainfall and floods  14 Apr  Poptún and Petén  16 Oct  Rainfall and floods  17 Apr  Rainfall and floods  18 Apr  Rainfall and floods  19 Apr  Rainfall and floods  10 Apr  R	Itacional	veather Services and National Emergency Committees communications and regional newspapers].										
Atlantida  Soledad, El Paraiso Department  Departments of Colon, Gracias a Dios, Cortes and Islas de la Bahía  Tegucigalpa  Tegucigalpa  Distrito Central  Distrito Central  San Juan Comalapa, and Chimaltenango  El Armeño, Municipality Las Cruces, Petén  Villa Canales, Guatemala  Departments of Suchitepéquez, Alta Verapaz, Esquintla, and Izabal  Petén and Quiché  Petén and Quiché  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez Villa Nueva, Guatemala Department  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Poptún and Petén  Department of Guatemala  Poptún and Petén  Department of Guatemala  Department of Guatemala  OS Dec  Cold front  177  May  Heavy rainfall, Indods associated with Hurricane Earl  Indiantal Indods associated with Hurricane Earl  Indiantal Indods, and Indods Indiantal India	Country	Specific Region		Hydrometeorogical Conditions	Impacts							
Departments of Colon, Gracias a Dios, Cortes and Islas de la Bahía  Tegucigalpa  29 Aug  Rainfall and Indods associated with Hurricane Earl  Distrito Central  20 Oct  Rainfall and floods associated with a low pressure system  San Juan Comalapa, and Chimaltenango  El Armeño, Municipality Las Cruces, Petén  Villa Canales, Guatemala  Departments of Suchitepéquez, Alta Verapaz, Esquintla, and Izabal  Petén and Quiché  Petén and Quiché  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala  Departments of Guatemala  Petén and Quiché  O5 Aug  Rainfall and floods associated with Hurricane Earl  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala  Departments of Guatemala, Suchitepéquez  Villa Nueva, Guatemala Department  O6 Sep  Rainfall, floods, and landslides  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  I6 Oct  Rainfall and floods  Rainfall, floods, and landslides associated with a low pressure system  Indicate Pearl Pe	Honduras	•	22 Mar		10341a, 173d							
Distrito Central  20 Oct  Rainfall and floods associated with a low pressure system  San Juan Comalapa, and Chimaltenango  El Armeño, Municipality Las Cruces, Petén  Villa Canales, Guatemala  19 May  Rainfall and floods  Signature of Suchitepéquez, Alta Verapaz, Esquintla, and Izabal  Petén and Quiché  Petén and Suchitepéquez  Villa Nueva, Guatemala  Petén and Suchitepéquez  Villa Nueva, Guatemala  Petén and Quiché  Os Aug  Rainfall and floods associated with Hurricane Earl  Villa Nueva, Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala Department  Os Sep  Rainfall, floods and landslides  Villa Nueva, Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala, Department  Departments of Guatemala, Suchitepéquez  Villa Nueva, Guatemala Department  Os Sep  Rainfall, floods, and landslides  I Sep  Rainfall, floods, and landslides  Peptún and Petén  I Sep  Rainfall, floods, and landslides asoociated with a Easterly wave  Poptún and Petén  I GOCT  Rainfall and floods  Pepartments of Guatemala  Suchitepéquez, and Zacapa  Poptún and Petén  I GOCT  Rainfall and floods  Papartment of Guatemala  Os Dec  Cold front  Soci		Soledad, El Paraiso Department	27 May	Heavy rainfall, landslides	5f, 2i							
Distrito Central  20 Oct  Rainfall and floods associated with a low pressure system  San Juan Comalapa, and Chimaltenango  El Armeño, Municipality Las Cruces, Petén  Villa Canales, Guatemala  19 May  Rainfall and floods  Signature of Suchitepéquez, Alta Verapaz, Esquintla, and Izabal  Petén and Quiché  Petén and Suchitepéquez  Villa Nueva, Guatemala  Petén and Suchitepéquez  Villa Nueva, Guatemala  Petén and Quiché  Os Aug  Rainfall and floods associated with Hurricane Earl  Villa Nueva, Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala Department  Os Sep  Rainfall, floods and landslides  Villa Nueva, Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala, Department  Departments of Guatemala, Suchitepéquez  Villa Nueva, Guatemala Department  Os Sep  Rainfall, floods, and landslides  I Sep  Rainfall, floods, and landslides  Peptún and Petén  I Sep  Rainfall, floods, and landslides asoociated with a Easterly wave  Poptún and Petén  I GOCT  Rainfall and floods  Pepartments of Guatemala  Suchitepéquez, and Zacapa  Poptún and Petén  I GOCT  Rainfall and floods  Papartment of Guatemala  Os Dec  Cold front  Soci			05 Aug		lm, 63a,1i							
Distrito Central   20 Oct   Rainfall and floods associated with a low pressure system   165   32   33   34   34   34   34   34   34		Tegucigalpa	29 Aug	Rainfall and landslides	If, 39h							
Chimaltenango  El Armeño, Municipality Las Cruces, Petén  Villa Canales, Guatemala  Villa Nueva, Guatemala  Departments of Suchitepéquez, Alta Verapaz, Esquintla, and Izabal  Petén and Quiché  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala  Petén and Quiché  O5 Aug  Rainfall and floods and strong winds  Rainfall and floods, and strong winds  Petén and Quiché  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala Department  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Department of Guatemala  O5 Dec  Cold front  So		Distrito Central	20 Oct		If, 1653a, 3i							
Petén  Villa Canales, Guatemala  I9 May  Rainfall and floods  Villa Nueva, Guatemala  Departments of Suchitepéquez, Alta Verapaz, Esquintla, and Izabal  Petén and Quiché  Petén and Quiché  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala Department  Departments of Guatemala, Suchitepéquez  Villa Nueva, Guatemala Department  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Department of Guatemala  Poptún and Petén  OS Aug  Rainfall and floods associated with Hurricane Earl  I1 Sep  Rainfall, floods and landslides  Rainfall, floods, and landslides  S2 I Rainfall, floods, and landslides  S2 I Rainfall, floods, and landslides associated with a Easterly wave  Poptún and Petén  Department of Guatemala  OS Dec  Cold front  S0			19 Apr	Heavy Rainfall	962a							
Villa Canales, Guatemala  Villa Nueva, Guatemala  O3 Jun  Rainfall and floods  If, I  Departments of Suchitepéquez, Alta Verapaz, Esquintla, and Izabal  Petén and Quiché  O5 Aug  Rainfall and floods associated with Hurricane Earl  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala Department  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Department of Guatemala  O5 Dec  Cold front  O5 Aug  Rainfall and floods associated with Hurricane Earl  A09  Bainfall, floods and landslides  II Sep Rainfall, floods, and landslides  S30  Rainfall, floods, and landslides  S21  Rainfall and floods  Poptún and Petén  O5 Dec  Cold front  O5 Dec  Cold front			24 Apr	Heavy rain and strong winds	2f, 2i							
Departments of Suchitepéquez, Alta Verapaz, Esquintla, and Izabal  Petén and Quiché  O5 Aug  Rainfall and floods associated with Hurricane Earl  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala Department  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Department of Guatemala  O9 Jul  Heavy rainfall, floods, and strong winds  Rainfall and floods associated with Hurricane Earl  10 Aug  Rainfall, floods and landslides  I Sep  Rainfall, floods, and landslides  S1 Aug  Rainfall, floods, and landslides  S2 I  Rainfall, floods, and landslides associated with Hurricane Earl  10 Aug  Rainfall, floods, and landslides  S2 I  Rainfall, floods, and landslides associated with Hurricane Earl  10 Aug  Rainfall and floods, and landslides  S2 I  Rainfall and floods  S2 I  Rainfall and floods  Department of Guatemala  O5 Dec  Cold front  S0		Villa Canales, Guatemala	19 May	Rainfall and floods	335a, 67d							
Verapaz, Esquintla, and Izabal  Petén and Quiché  Petén and Quiché  O5 Aug  Rainfall and floods associated with Hurricane Earl  Guatemala, Izabal, Zacapa, Alta Verapaz, and Suchitepéquez  Villa Nueva, Guatemala Department  Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Department of Guatemala  O5 Dec  Rainfall, floods, and landslides  Rainfall, floods, and landslides asoociated with a Easterly wave  Department of Guatemala  Cold front  O5 Dec  Cold front  O5 Aug  Rainfall and floods associated with Hurricane Earl  IO4  IO4  Rainfall, floods, and landslides  S30  S21  Rainfall, floods, and landslides asoociated with a Easterly wave  Cold front  Department of Guatemala  O5 Dec  Cold front  S00		Villa Nueva, Guatemala	03 Jun	Rainfall and floods	If, 148d							
Villa Nueva, Guatemala Department06 SepRainfall and landslidesIDepartments of Guatemala, Suchitepéquez, and Santa RosaII SepRainfall, floods, and landslides530 32Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa22 SepRainfall, floods, and landslides asoociated with a Easterly wave52 I 70Poptún and Petén16 OctRainfall and floods94 19Department of Guatemala05 DecCold front50			09 Jul	Heavy rainfall, floods, and strong winds	960a, 160d							
Villa Nueva, Guatemala Department06 SepRainfall and landslidesIDepartments of Guatemala, Suchitepéquez, and Santa RosaII SepRainfall, floods, and landslides530 32Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, 	emala	Petén and Quiché	05 Aug		1046a, 1i, 162d							
Departments of Guatemala, Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Department of Guatemala  OS Dec  Rainfall, floods, and landslides asoociated with a Easterly wave  Poptún and Petén  Department of Guatemala  OS Dec  Cold front  S30  Rainfall, floods, and landslides asoociated with a Easterly wave  70  Cold front  S00	Guat		I5 Aug	Rainfall, floods and landslides	4093a, 102d							
Suchitepéquez, and Santa Rosa  Departments of Chiquimula, Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Department of Guatemala  OS Dec  Rainfall, floods, and landslides asoociated with a Easterly wave  Rainfall and floods  Poptún and Petén  Department of Guatemala  OS Dec  Rainfall, floods, and landslides asoociated with a Easterly wave  70  Cold front  SO  Cold front		Villa Nueva, Guatemala Department	06 Sep	Rainfall and landslides	10f							
Guatemala, Quiché, Retalhuleu, Suchitepéquez, and Zacapa  Poptún and Petén  Department of Guatemala  Poptún and Poptún an			II Sep	Rainfall, floods, and landslides	5307a, 32d							
Poptún and Petén 16 Oct Rainfall and floods 19  Department of Guatemala 05 Dec Cold front 50		Guatemala, Quiché, Retalhuleu,	22 Sep		52 125a, 76d							
		Poptún and Petén	I6 Oct	Rainfall and floods	942a, 190d							
Belize City, Belize Rural, Orange Walk, Cavo, and  Belize City, Belize Rural, Orange Rainfall and floods associated with 800		Department of Guatemala	05 Dec	Cold front	508a							
Stann Creek	Belize	Walk, Cavo, and	05 Aug	Rainfall and floods associated with Hurricane Earl	8000a							

Online Table 7.2. Record seasonal temperatures (°C) for some Caribbean locations.														
Country	Stations/ Locations	Record Start Date	Tmin			Tmean			Tmax					
			JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND
Barbados	CIMH	1971	-	24.7		24.4		27.9	-	-	-	-	-	-
Barbados	GAIA	1979	-	-	-	-	28	-	-	-	-	-	-	-
Cayman	METEO	1957	-	25.7		25.2	-	-	-	-	-	-	-	-
Dominica	Canefield	1983	-	-	-	-	-	-	-	-	-	-	-	32.2
Jamaica	Sangster	1973	-	25.1	25.6		-	-	-	-	-	-	-	-
Jamaica	Worthy Park	1973	-	-	-	-	23.5	-	-	-	30.3	-	-	-
Grenada	MBIA	1986	-	-	-	23.3	-	-	-	-	-	-	-	-
Martinique	Lamentin	1971	-	24.8	-	24	-	-	-	-	-	-	-	-
Puerto Rico	Guayama	1971	-	26.1	-	-	-	-	29.4		-	-	-	-
Puerto Rico	Lajas	1971	-	21.8	-	20.6		27.1	-	-	-	-	-	-
Puerto Rico	San Juan	1898	-	-	-	24.8	-	-	-	-	-	-	-	-
St. Kitts	Golden Rock	1998	-	-	-	-	26.5	28.2	29	28.1	-	-	-	-
St. Kitts	RLB		-	-	-	-	-	-	-	-	-	31	-	-
St. Lucia	Hewanorra	1973	-	26.1	26.2	25.5	-	-	-	-	-	-	-	-
St. Vincent	ET Joshua	1979	-	-	25.9		-	-	-	-	-	-	-	-
Tobago	Crown Point	1969	-	-	26.7		-	-	28.4	28.2	-	-	31.8	31.4
Trinidad	Piarco	1946				24.1	-	-	-	28.1	-	33	33.6	32.9
USVI	St. Thomas	1953	-	26.2		25.2	-	-	-	-	-	-	-	-

### **REFERENCES**

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