

Supplementary Information to the article: "Hurricane Impact Index for Assessing Direct and Indirect Hazards in Central America"

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Nicaragua

Hurricane	Reflects On HII	Specific Reported Impact Locations			
		DesInventar	EM-DAT	CIGEFI Dashboard	Newspaper clippings
Otto (2016)	Yes	N/A	Costa Caribe Sur, Río San Juan	N/A	Costa Sureste, San Juan de Nicaragua
	No		Chontales, Zelaya Central		N/A
Nate (2017)	Yes	N/A	Rivas, Chontales, Madriz, Río San Juan, Carazo, Granada, Bilwi, Waspam, Prinzapolka, Siuna, Rosita, Bonanza	N/A	N/A
	No		Boaco, Nueva Segovia		
Eta (2020)	Yes	N/A	Bonanza, Bilwi, Jinotega	N/A	Puerto Cabezas, Jinotega
	No		Yali, Wiwili, Ocotal		Nueva Segovia
Iota (2020)	Yes	N/A	Waspam, Bilwi/Puerto Cabezas, La Cruz de Río Grande	N/A	Bilwi, Rivas
	No		Prinzapolka, Laguna de Perlas		Haulover
Bonnie (2022)	Yes	N/A	N/A	N/A	Noreste de Nicaragua, Río San Juan, Chontales, Madriz, Masaya, Granada, Caribe Sur
	No				Siuna, Nueva Segovia
Julia (2022)	Yes	N/A	N/A	N/A	Costa Caribe, Laguna de Perlas
	No				Bluefields

Table S1: Comparative analysis of reported hurricane impact locations from multiple data sources and their correspondence to the Hurricane Impact Index (HII) in Nicaragua

Panamá

Hurricane	Reflects On HII	Specific Reported Impact Locations			
		DesInventar	EM-DAT	CIGEFI Dashboard	Newspaper clippings
Otto (2016)	Yes	Puerto Armuelles, Baco	Veraguas, Chiriquí, Colón, Bocas del Toro, Capira, Provincia de Panamá, Panamá Oeste	N/A	N/A
	No	N/A	N/A		
Nate (2017)	Yes	N/A	Ngabe Buglé, Veraguas, Chiriquí, Panama Bay, Panama West, Cerro Hacha	N/A	N/A
	No		N/A		
Eta (2020)	Yes	N/A	N/A	N/A	N/A
	No		Bocas del Toro, Chiriquí, Coclé, Colón, Conmarca Ngabe Buglé, Herrera, Veraguas		Chiriquí
Iota (2020)	Yes	N/A	Nole Diuma, Soloy	N/A	N/A
	No		N/A		
Bonnie (2022)	Yes	N/A	N/A	N/A	N/A
	No				
Julia (2022)	Yes	N/A	N/A	N/A	N/A
	No				Colón

Table S2: Comparative analysis of reported hurricane impact locations from multiple data sources and their correspondence to the Hurricane Impact Index (HII) in Panamá.

El Salvador

Hurricane	Reflects On HII	Specific Reported Impact Locations			
		DesInventar	EM-DAT	CIGEFI Dashboard	Newspaper clippings
Otto (2016)	Yes	N/A	N/A	N/A	N/A
	No				
Nate (2017)	Yes	N/A	Chalatenango, La Libertad	N/A	N/A
	No		N/A		
Eta (2020)	Yes	N/A	La Unión, Departamento de La Unión	N/A	N/A
	No		N/A		
Iota (2020)	Yes	N/A	N/A	N/A	N/A
	No				
Bonnie (2022)	Yes	N/A	N/A	N/A	San Salvador
	No				San Martín, Chalatenango
Julia (2022)	Yes	N/A	San Salvador, La Libertad, La Paz, San Vicente, Usulután, San Miguel, La Unión, Sonsonate	N/A	Guatajiagua, Caluco, Sonsonate
	No		N/A		N/A

Table S3: Comparative analysis of reported hurricane impact locations from multiple data sources and their correspondence to the Hurricane Impact Index (HII) in El Salvador.

Honduras

Hurricane	Reflects On HII	Specific Reported Impact Locations			
		DesInventar	EM-DAT	CIGEFI Dashboard	Newspaper clippings
Otto (2016)	Yes	N/A	N/A	N/A	N/A
	No				
Nate (2017)	Yes	N/A	Lempira, Francisco Morazán (San Ignacio), Atlántida (El Porvenir), Valle (San Lorenzo, Nacaome Paso Hondo)	N/A	N/A
	No		Ocotepeque, Copán, Intibucá, Santa Bárbara, Comayagua, El Paraíso (Trojes)		
Eta (2020)	Yes	N/A	La Ceiba, El Progreso	Gracias a Dios, Olanchó, Colón, La Ceiba, Atlántida, San Pedro de Sula, Cortés	N/A
	No		Santa Bárbara, Gualala, Sulaco, San Manuel, Lempira	Santa Bárbara	
Iota (2020)	Yes	N/A	San Pedro Sula, Santa Rosa de Aguan, Choluteca, Puerto Cortés, Yoro, Atlántida, Olanchó	Gracias a Dios, Olanchó, Colón, La Ceiba, Atlántida, San Pedro de Sula, Cortés	N/A
	No		Sulla Valley, Santa Bárbara, Distrito Central, Tocoa Copán, Comayagua, Santa Bárbara	N/A	
Bonnie (2022)	Yes	N/A	N/A	N/A	N/A
	No				
Julia (2022)	Yes	N/A	N/A	N/A	N/A
	No				

Table S4: Comparative analysis of reported hurricane impact locations from multiple data sources and their correspondence to the Hurricane Impact Index (HII) in Honduras.

Guatemala

Hurricane	Reflects On HII	Specific Reported Impact Locations			
		DesInventar	EM-DAT	CIGEFI Dashboard	Newspaper clippings
Otto (2016)	Yes	N/A	N/A	N/A	N/A
	No				
Nate (2017)	Yes	N/A	Ixcán, San Luis, Cobán	N/A	N/A
	No		N/A		
Eta (2020)	Yes	N/A	N/A	N/A	N/A
	No		Alta Verapaz, Petén, Quiché, Sololá, Izabal, Chiquimula, Zacapa, Jutiapa, El Progreso, Santa Rosa	Puerto Barrios, Livingston, Morales, Los Amates, Gualán, La Unión, Zacapa, Chiquimula, Cabañas, Jocotán	
Iota (2020)	Yes	N/A	Alta Verapaz, Izabal, Quiché	Morales, Los Amates, Gualán, Huité, Panzós, El Estor, Chahal, Cahabón, Senahú	N/A
	No		Baja Verapaz, Chiquimula, Zacapa	Chiquimula, Zacapa, Ciudad de Guatemala, La Unión, Sayaxché	
Bonnie (2022)	Yes	N/A	N/A	N/A	N/A
	No				
Julia (2022)	Yes	N/A	Izabal, Petén	N/A	N/A
	No		Alta Verapaz, Quiché, Huehuetenango, Zacapa, Chimaltenango, Totonicapán		

Table S5: Comparative analysis of reported hurricane impact locations from multiple data sources and their correspondence to the Hurricane Impact Index (HII) in Guatemala.