



US Army Corps
of Engineers®
BUILDING STRONG®

Hurricane Ian Advisory #5

For Planning Purposes Only!

WASHINGTON, DC
09:27:58
24 Sep 2022

CHICAGO
08:27:58
24 Sep 2022

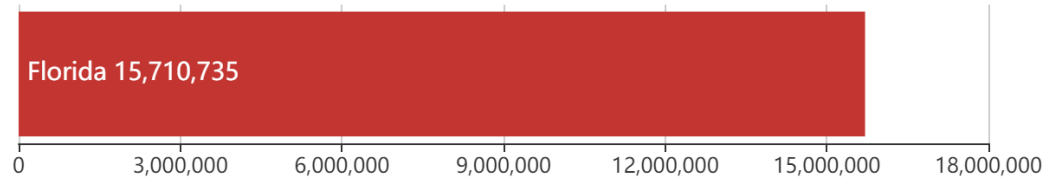
LOS ANGELES
06:27:58
24 Sep 2022

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/#advid=259&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%235&advf=G>

Updated as of 24 Sep 2022 (8:27 AM Central Daylight Time)

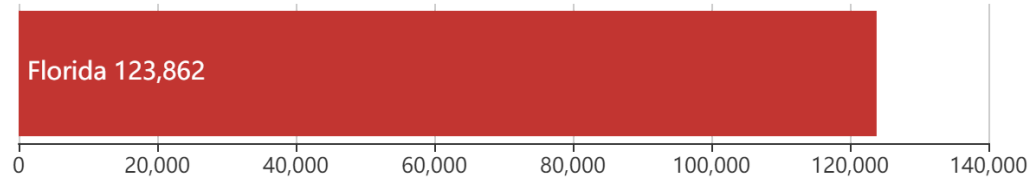
Debris

15.7M
cu. yd.



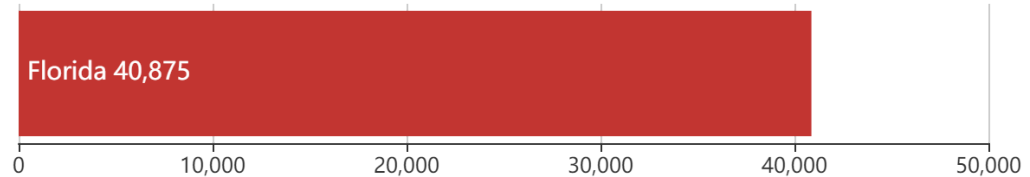
Est. Temp. Roofing

123.9K
units



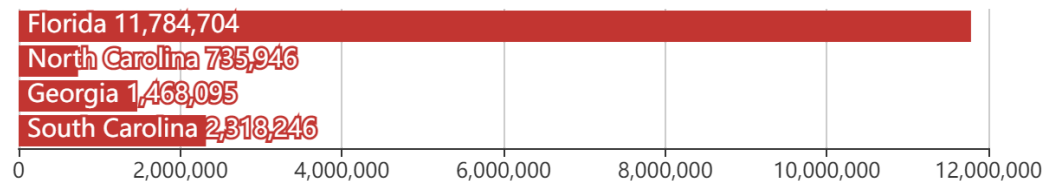
Act. Temp. Roofing

40.9K
units



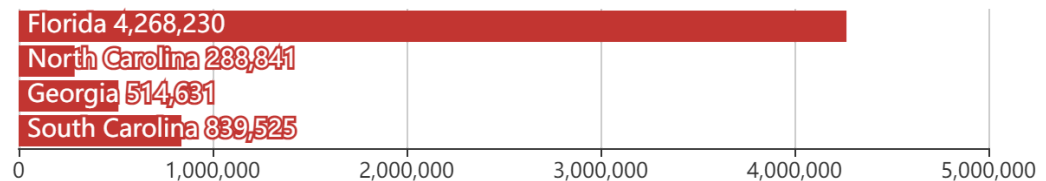
Population

16.3M
people



Households

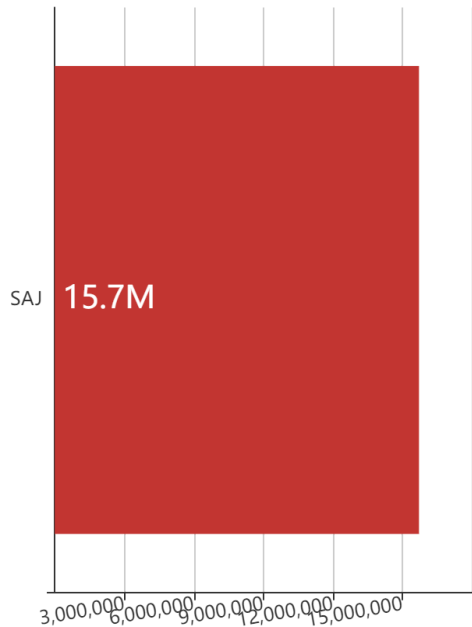
5.9M
households



Mission Model Summary

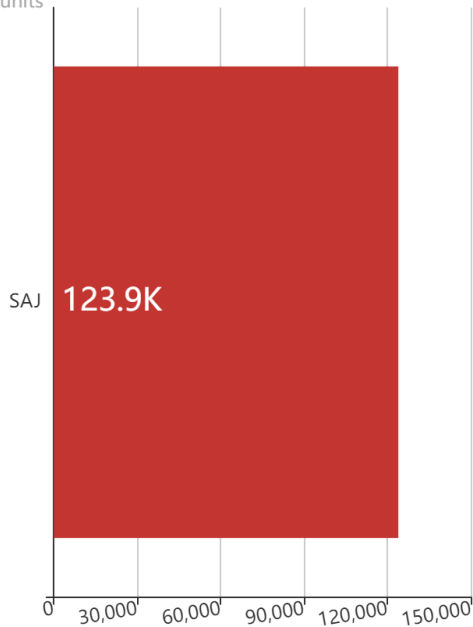
Debris By USACE District

cu. yd.

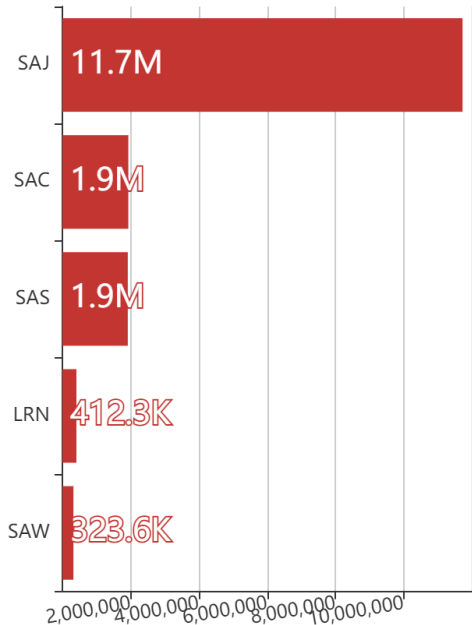


Est. Temp. Roofing By USACE District

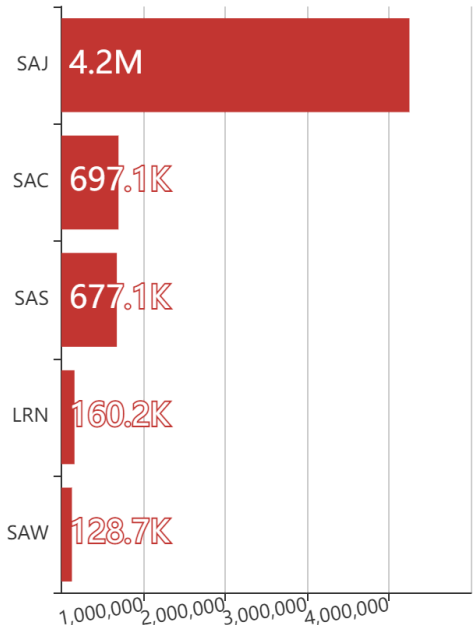
units



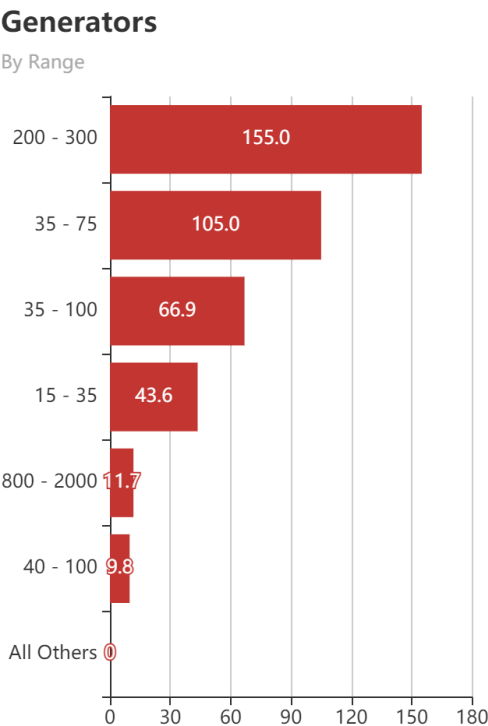
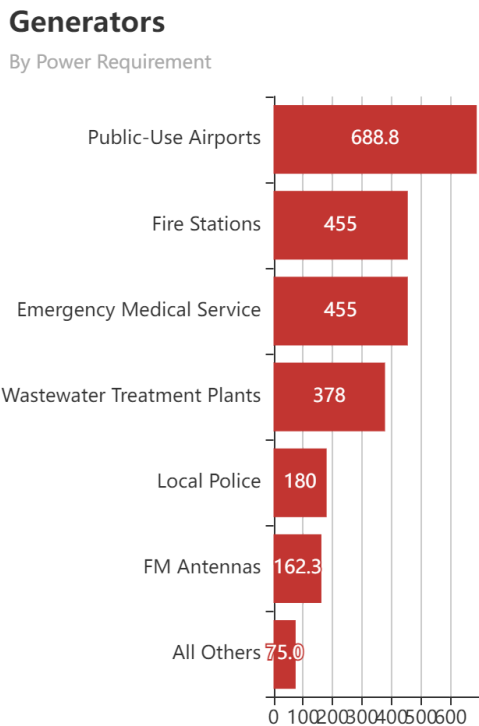
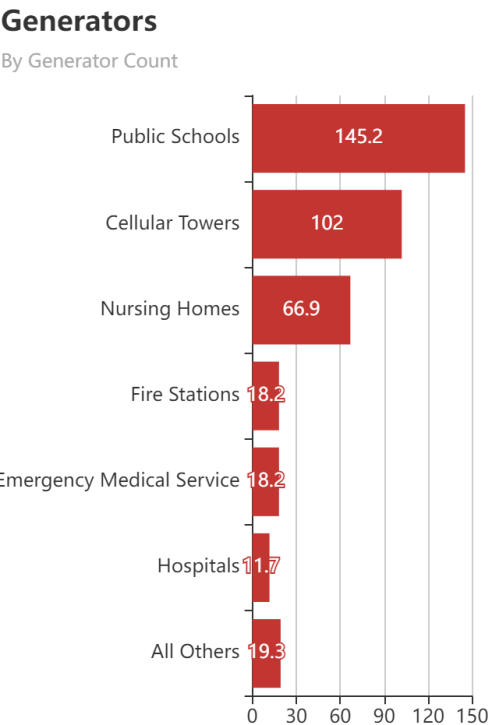
Population By USACE District



Households By USACE District

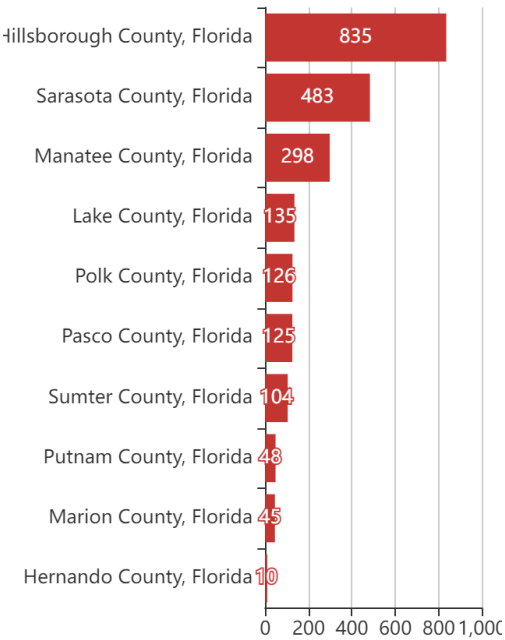


Critical Infrastructure Summary



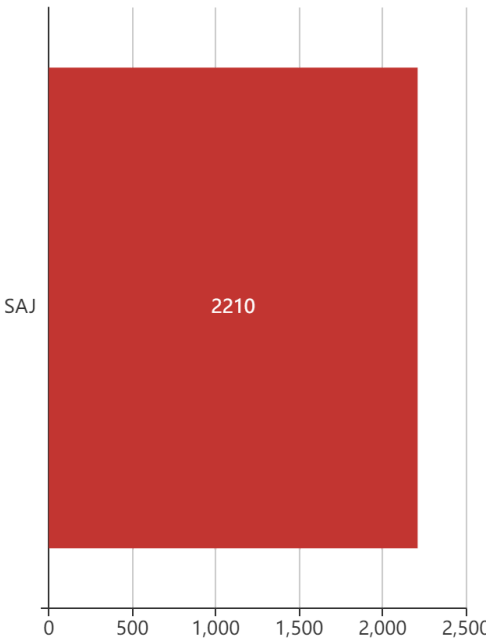
Structures

By County



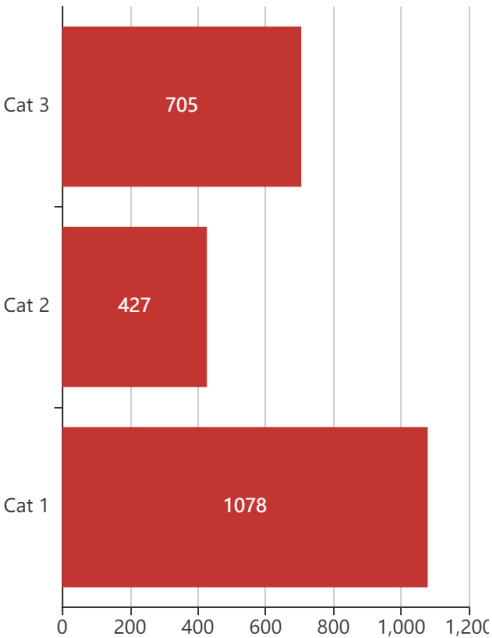
Structures

By USACE District



Structures

By Intensity



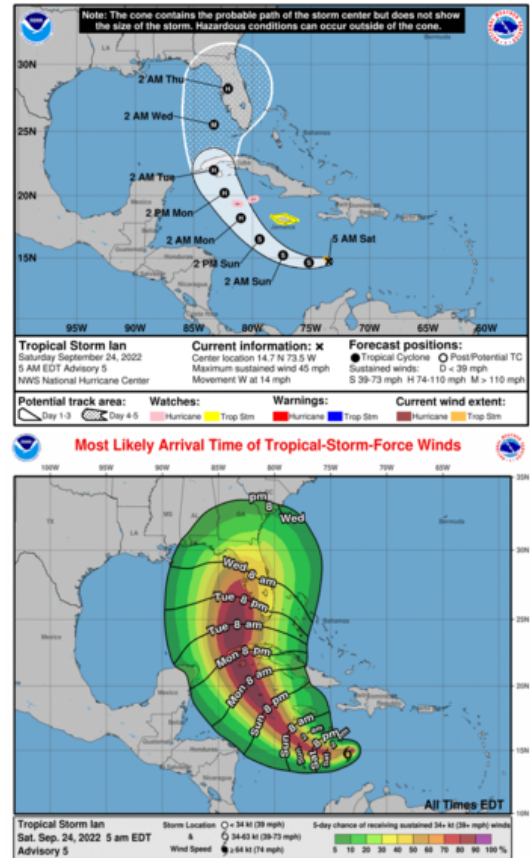


Key Messages for Tropical Storm Ian

Advisory 5: 5:00 AM EDT Sat Sep 24, 2022



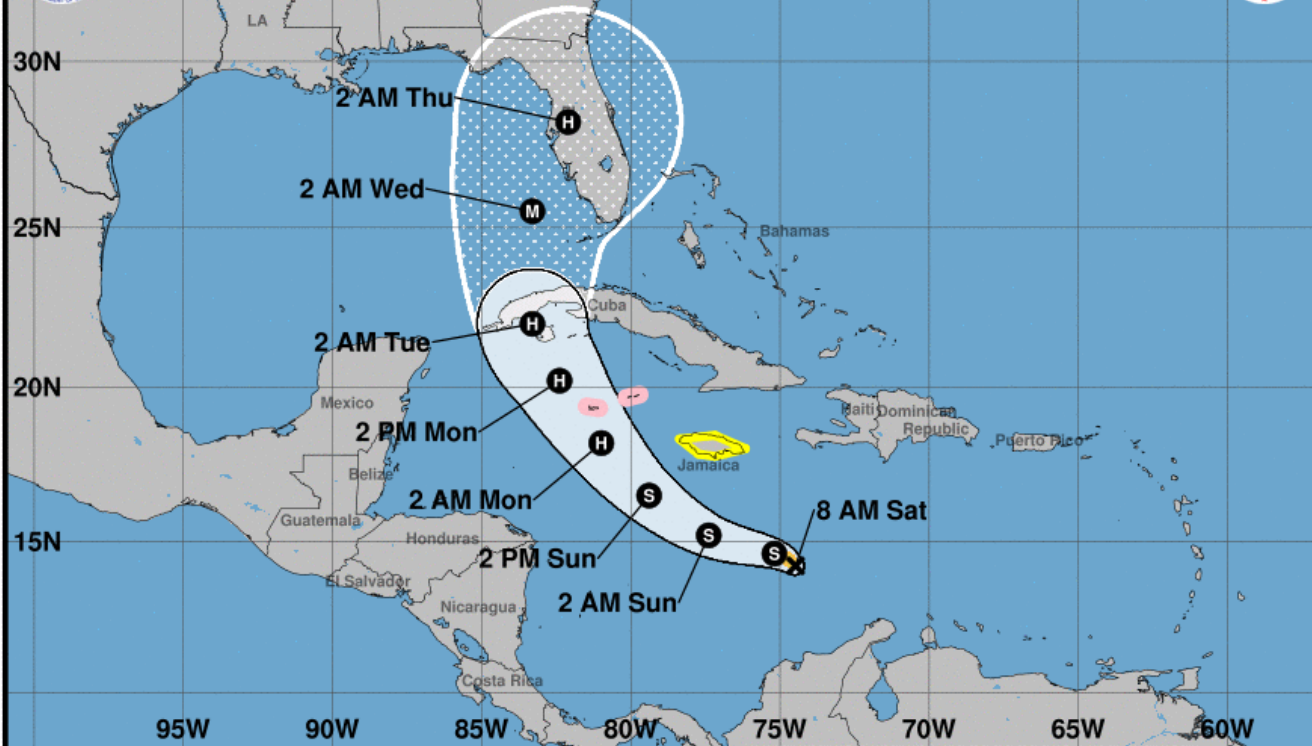
1. Ian is expected to produce heavy rainfall and instances of flash flooding and possible mudslides in areas of higher terrain, particularly over Jamaica and Cuba.
2. Hurricane conditions are possible in the Cayman Islands by early Monday, with tropical storm conditions possible by late Sunday. Tropical storm conditions are possible in Jamaica on Sunday.
3. Early next week, Ian is forecast to move near or over western Cuba as a strengthening hurricane and then approach the Florida peninsula at or near major hurricane strength, with the potential for significant impacts from storm surge, hurricane-force winds, and heavy rainfall. While it is too soon to determine the exact magnitude and location of these impacts, residents in Cuba, the Florida Keys, and the Florida peninsula should ensure they have their hurricane plan in place and closely monitor forecast updates through the weekend.



For more information go to hurricanes.gov



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Storm Ian

Saturday September 24, 2022
8 AM EDT Intermediate Advisory 5A
NWS National Hurricane Center

Current information: x

Center location 14.2 N 74.5 W
Maximum sustained wind 45 mph
Movement WSW at 15 mph

Forecast positions:

● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:

Day 1-3 Day 4-5

Watches:

Hurricane Trop Stm

Warnings:

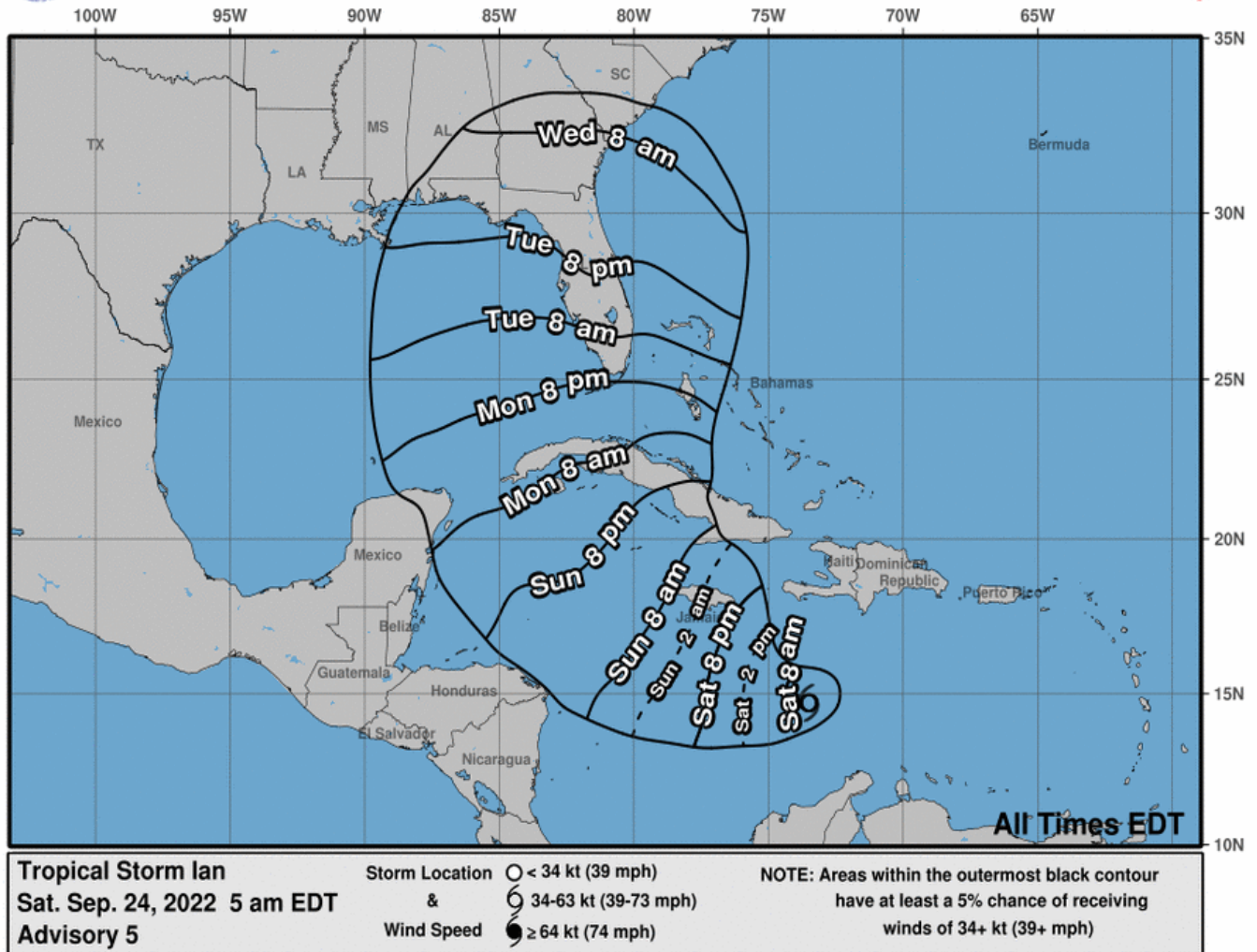
Hurricane Trop Stm

Current wind extent:

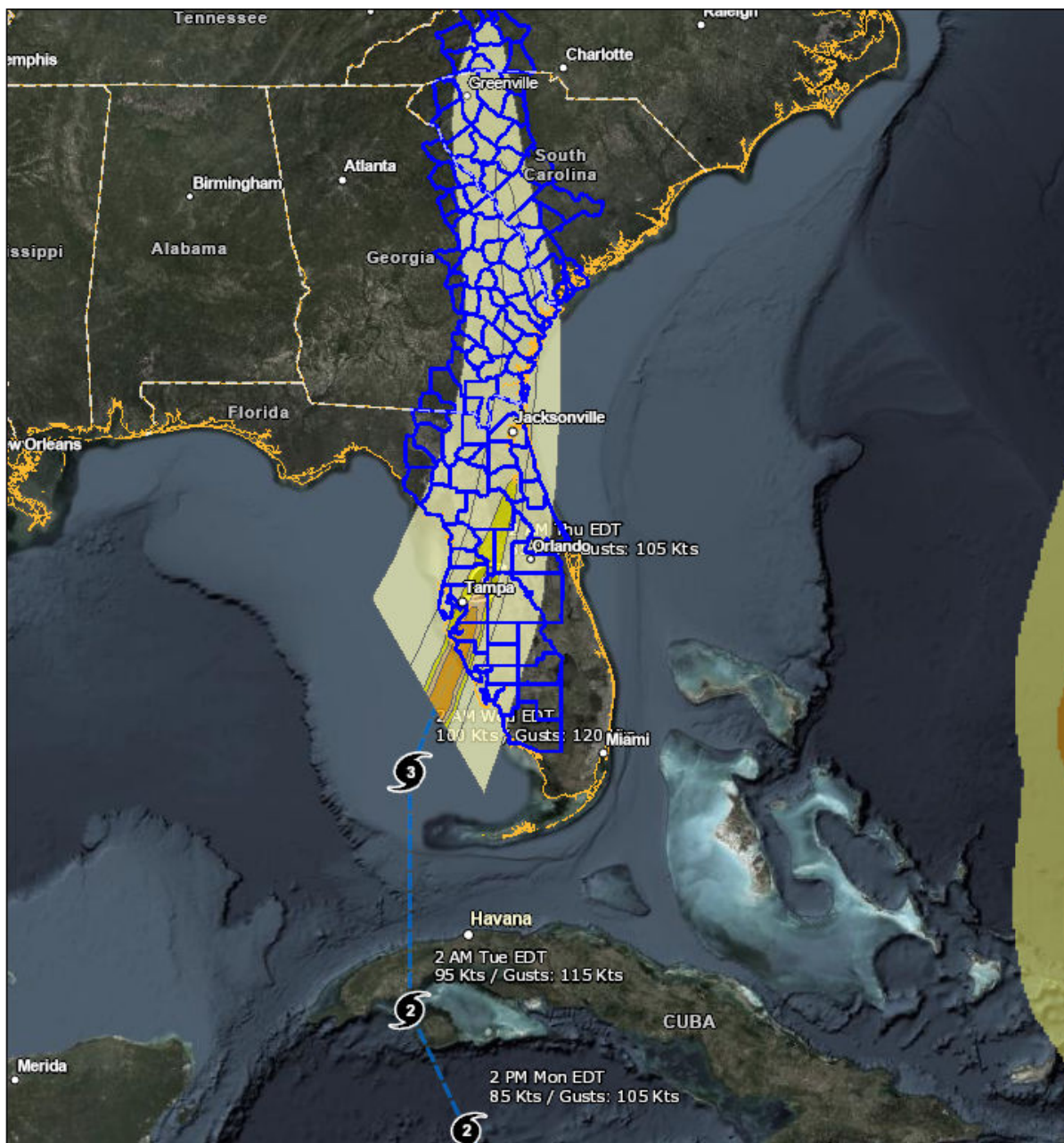
Hurricane Trop Stm



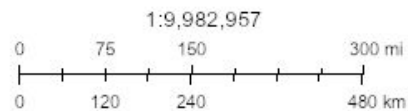
Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Letter ANSI A Portrait



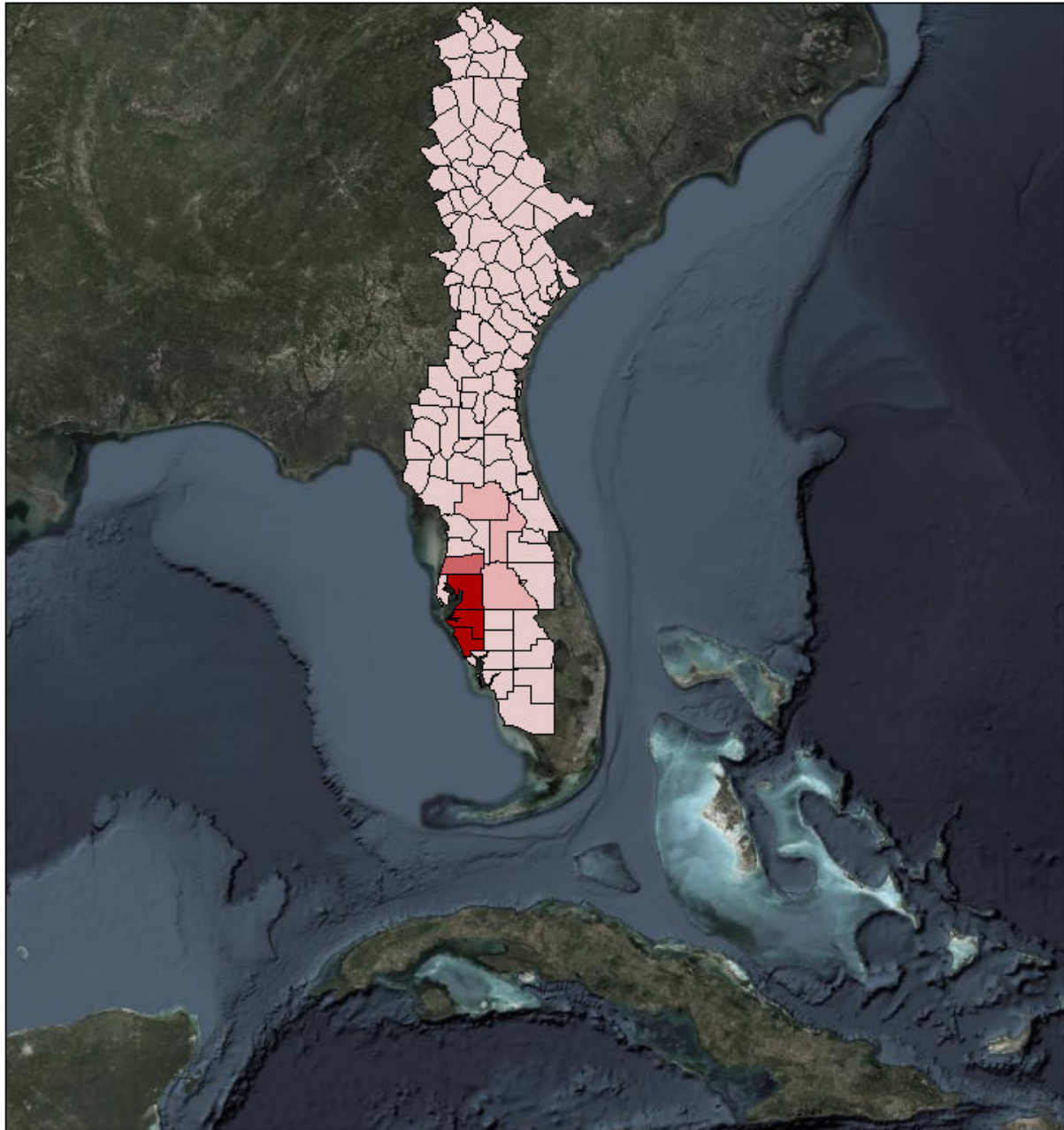
- Counties
- United States State Boundaries 2021
- Mission Model Swaths
 - TS
 - Cat 1
 - Cat 2
 - Cat 3



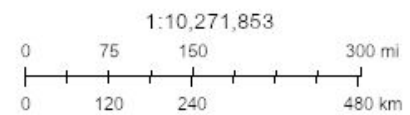
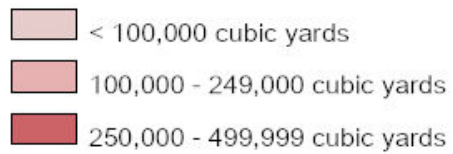
Source: NOAA, Esri, NOAA/NOS/OCs nowCOAST, NOAA/NWS/NHC, NOAA/NWS/CPHC, University of South Florida, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS

Created by SimSuite

Debris



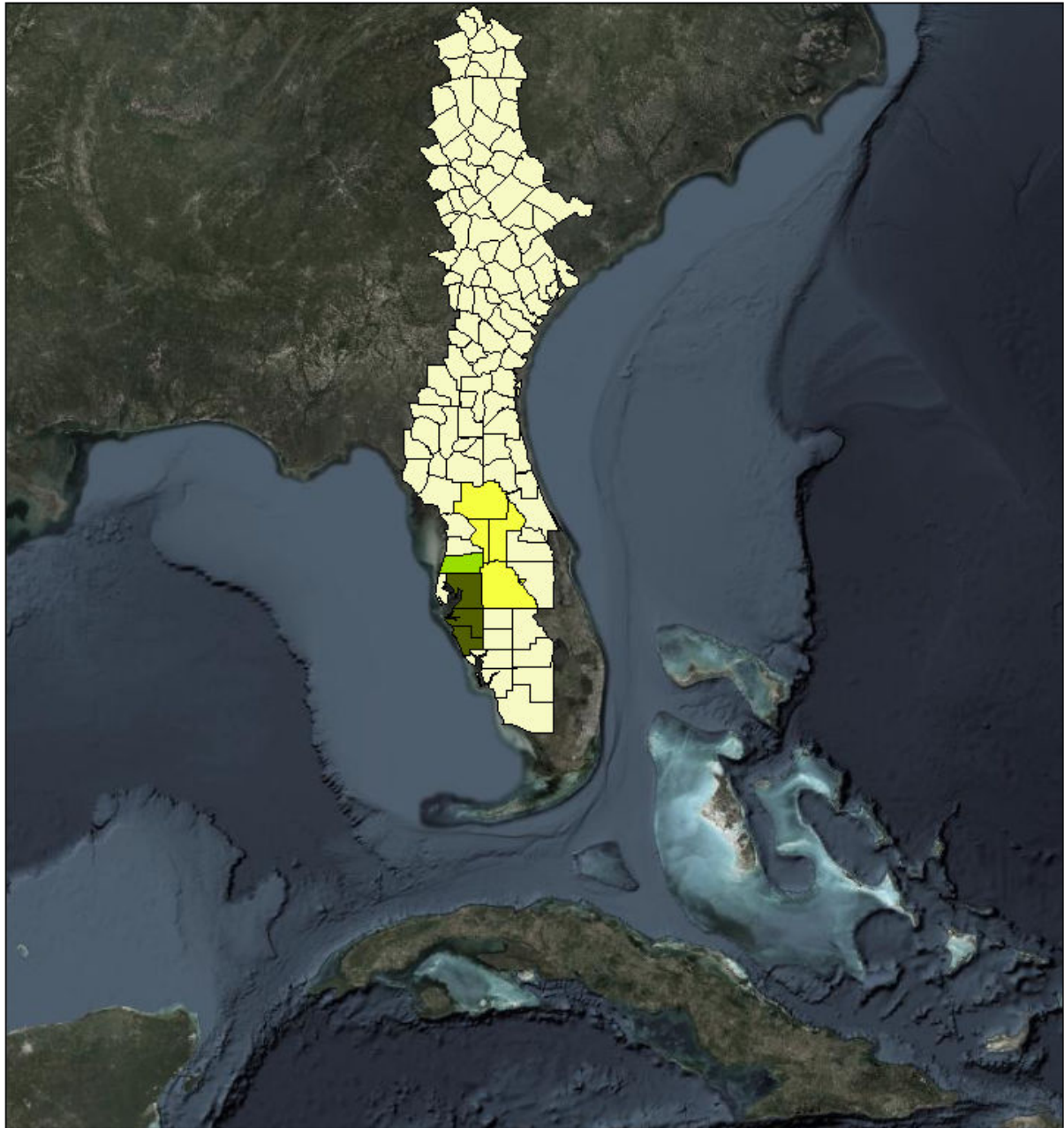
Debris



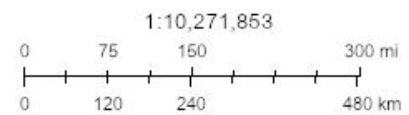
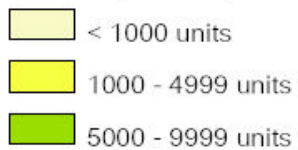
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Created by SimSuite

Est. Temp. Roofing



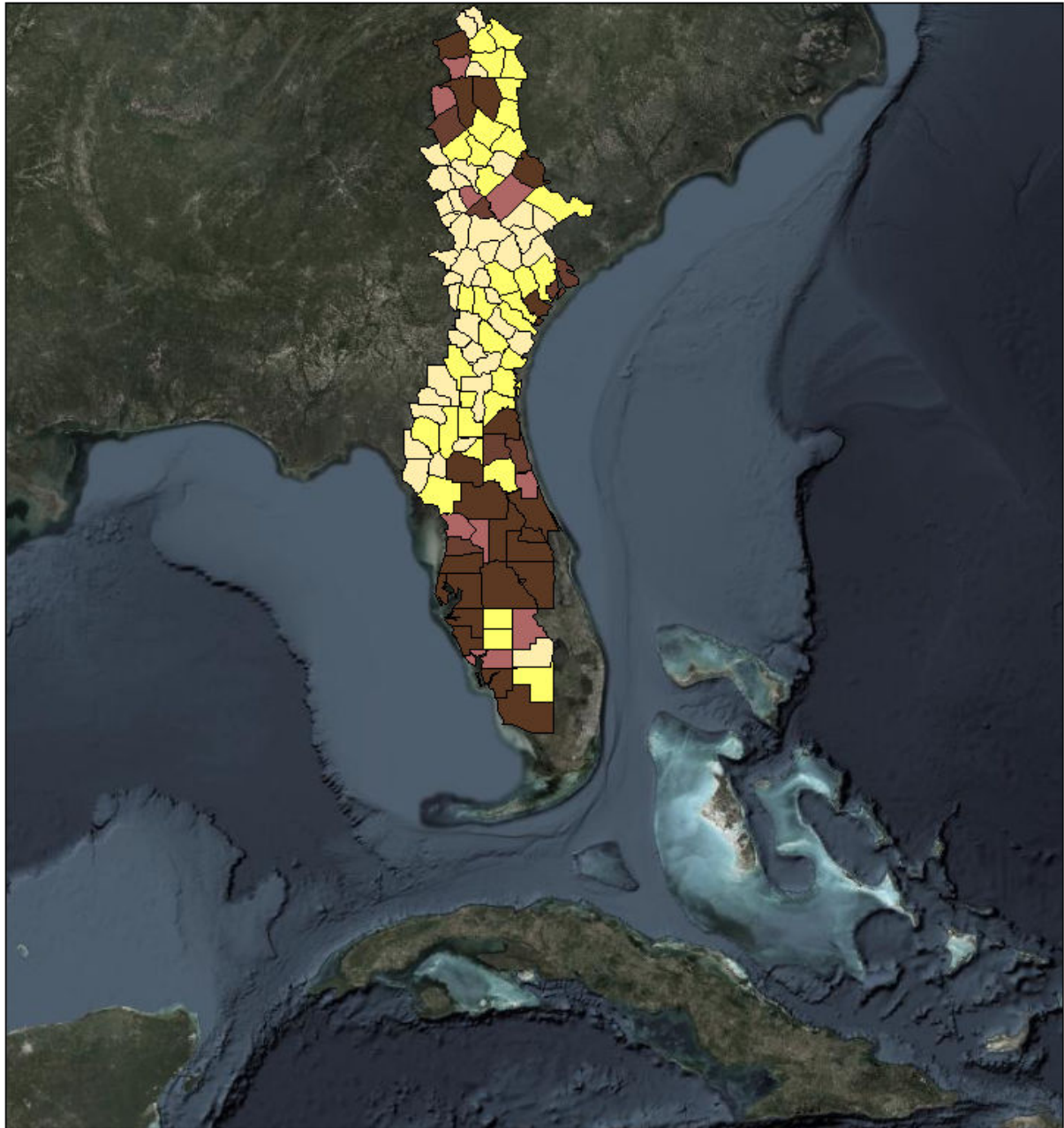
Est. Temp. Roofing



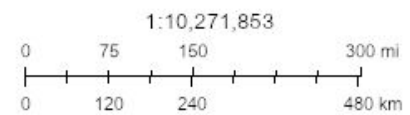
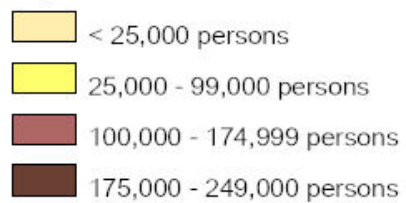
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Population



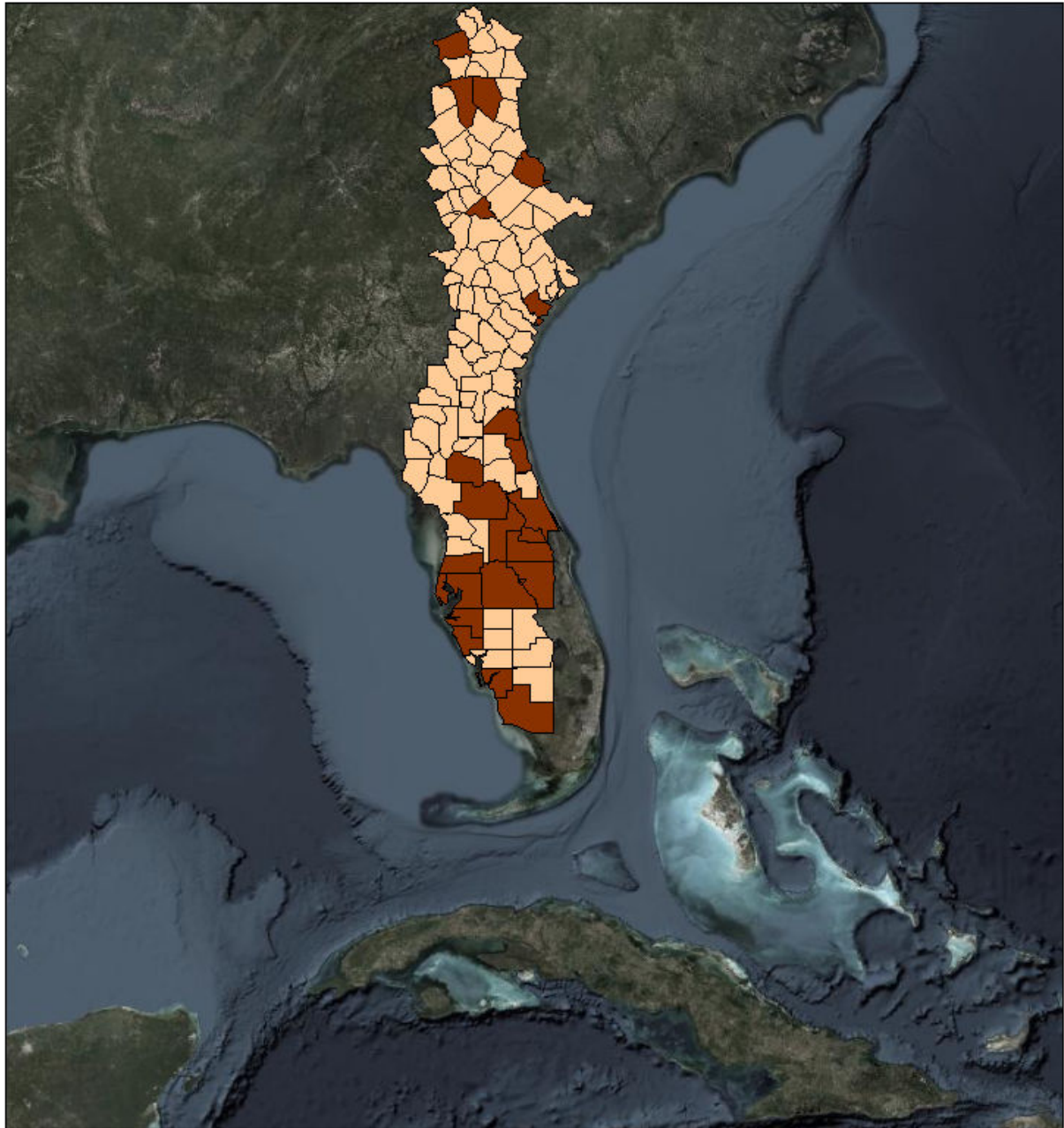
Population



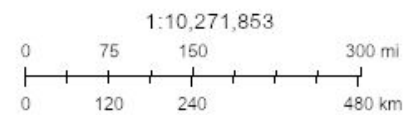
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Households



Households



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Mission Summary



The mission models account for storm surge and wind damage only, but do not account for other related storm hazards that may affect the mission estimates.

Mission Summary	
Total Counties	12
Debris (cu. yd.)	15,710,735
Est. Temp. Roofing (units)	123,862
Act. Temp. Roofing (units)	40,875
Population	16,306,991
Households	5,911,227

Population Distribution	
Tropical Storm	11,333,112
Category 1	1,106,832
Category 2	810,557
Category 3	491,226

FLORIDA	Yds of Debris (15,710,735)	Est. Roof Units (123,862)	Act. Roof Units (40,875)	Population (11,784,704)	Households (4,268,230)
Alachua	0	0	0	262,216	100,516
Baker	0	0	0	28,042	8,772
Bradford	0	0	0	26,996	9,479
Charlotte	298	8	3	173,978	73,370
Citrus	0	0	0	144,825	63,304
Clay	0	0	0	209,524	68,792
Collier	0	0	0	368,652	133,179
Columbia	0	0	0	69,419	24,941
DeSoto	0	0	0	36,506	11,445
Dixie	0	0	0	16,299	6,316
Duval	0	0	0	932,755	342,450
Flagler	0	0	0	108,166	39,186
Gilchrist	0	0	0	17,436	6,121
Glades	0	0	0	13,588	4,533
Hamilton	0	0	0	14,344	4,617
Hardee	0	0	0	28,518	8,245
Hendry	0	0	0	39,553	12,025
Hernando	32,687	912	301	182,273	71,745
Highlands	0	0	0	102,012	42,604
Hillsborough	10,193,541	61,818	20,400	1,382,695	474,030
Lafayette	0	0	0	8,476	2,580
Lake	113,543	3,168	1,045	339,742	121,289
Lee	0	0	0	720,426	259,818
Levy	0	0	0	41,097	16,404
Manatee	2,097,827	19,067	6,292	376,566	135,729
Marion	103,119	2,877	949	350,915	137,726
Nassau	0	0	0	80,628	28,794
Orange	0	0	0	1,332,714	421,847
Osceola	0	0	0	333,980	90,603
Pasco	361,135	8,296	2,738	512,082	189,612
Pinellas	0	0	0	968,279	415,876
Polk	149,736	3,203	1,057	662,431	227,485
Putnam	17,024	475	157	74,098	29,409
Sarasota	2,541,397	21,468	7,084	414,899	175,746
Seminole	0	0	0	457,650	164,706
St. Johns	0	0	0	238,439	75,338
Sumter	98,131	2,505	827	125,329	41,361
Suwannee	0	0	0	44,733	15,953
Union	0	0	0	15,704	4,048
Volusia	2,297	64	21	528,719	208,236

GEORGIA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (1,468,095)	Households (514,631)
Appling	0	0	0	18,451	6,969
Bacon	0	0	0	11,414	4,214
Brantley	0	0	0	18,729	6,885
Bryan	0	0	0	37,469	10,738
Bulloch	0	0	0	73,263	25,575
Burke	0	0	0	22,837	8,533
Camden	0	0	0	53,037	18,047
Candler	0	0	0	10,868	4,041
Charlton	0	0	0	13,121	3,927
Chatham	0	0	0	292,686	103,038
Clinch	0	0	0	6,915	2,572
Columbia	0	0	0	153,260	44,898
Echols	0	0	0	4,137	1,329
Effingham	0	0	0	60,602	18,092
Elbert	0	0	0	19,668	8,063
Emanuel	0	0	0	23,103	8,430
Evans	0	0	0	11,202	4,033
Glascocock	0	0	0	3,091	1,162
Glynn	0	0	0	84,625	31,774
Jefferson	0	0	0	16,389	6,241
Jenkins	0	0	0	9,170	3,192
Johnson	0	0	0	9,742	3,347
Liberty	0	0	0	64,510	22,155
Lincoln	0	0	0	7,814	3,281
Long	0	0	0	18,728	5,023
McDuffie	0	0	0	21,779	8,289
McIntosh	0	0	0	13,862	5,971
Montgomery	0	0	0	9,422	3,287
Pierce	0	0	0	19,286	7,083
Richmond	0	0	0	204,200	76,924
Screven	0	0	0	14,427	5,596
Tattnall	0	0	0	25,147	8,210
Toombs	0	0	0	27,659	10,375
Treutlen	0	0	0	6,916	2,543
Ware	0	0	0	35,094	13,654
Warren	0	0	0	5,524	2,315
Wayne	0	0	0	29,612	10,562
Wilkes	0	0	0	10,336	4,263

NORTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (735,946)	Households (288,841)
Buncombe	0	0	0	261,655	100,412
Burke	0	0	0	89,714	35,804
Cleveland	0	0	0	98,074	38,555
Henderson	0	0	0	116,799	45,448
McDowell	0	0	0	46,542	17,838
Mitchell	0	0	0	15,607	6,685
Polk	0	0	0	21,307	8,989
Rutherford	0	0	0	68,012	27,466
Yancey	0	0	0	18,236	7,644

SOUTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (2,318,246)	Households (839,525)
Abbeville	0	0	0	25,238	9,990
Aiken	0	0	0	170,230	64,253
Allendale	0	0	0	9,774	3,706
Anderson	0	0	0	198,293	73,829
Bamberg	0	0	0	15,050	6,048
Barnwell	0	0	0	21,937	8,937
Beaufort	0	0	0	187,450	64,945
Cherokee	0	0	0	57,032	21,519
Edgefield	0	0	0	27,396	9,348
Greenville	0	0	0	506,457	176,531
Greenwood	0	0	0	70,166	27,547
Hampton	0	0	0	21,006	7,598
Jasper	0	0	0	30,101	8,517
Laurens	0	0	0	67,718	25,525
Lexington	0	0	0	291,357	102,733
McCormick	0	0	0	9,946	4,027
Newberry	0	0	0	38,634	14,709
Orangeburg	0	0	0	91,282	35,788
Pickens	0	0	0	124,779	45,228
Saluda	0	0	0	20,270	7,527
Spartanburg	0	0	0	305,813	109,246
Union	0	0	0	28,317	11,974

Critical Infrastructure

Summary			
Total Critical Facilities		2,210	
Power Requirements (kW)		67,622.8	
Range (kW)			
Communications	# FED Gen Req	Range (kW)	Req kW
Cellular Towers (170)	102.0	35 - 75	5,610.0
FM Antennas (59)	3.0	35 - 75	162.3
Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (160)	0.0	200 - 300	0.0
Public Schools (484)	145.2	200 - 300	36,300.0
Colleges and Universities (30)	0.6	200 - 300	150.0
Emergency Services	# FED Gen Req	Range (kW)	Req kW
911 Call Centers (0)	0.0	15 - 35	0.0
Emergency Medical Service (182)	18.2	15 - 35	455.0
Fire Stations (182)	18.2	15 - 35	455.0
Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (446)	66.9	35 - 100	4,515.7
Hospitals (39)	11.7	800 - 2000	16,380.0
Urgent Care Facilities (46)	9.2	200 - 300	2,300.0
Law Enforcement	# FED Gen Req	Range (kW)	Req kW
Local Police (72)	7.2	15 - 35	180.0
Correctional Facilities (0)	0.0	400 - 600	0.0
State and Local EOCs	# FED Gen Req	Range (kW)	Req kW
Local Emergency Operations Centers (6)	1.2	15 - 40	33.0
State Emergency Operation Centers (EOCs) (0)	0.0	15 - 35	0.0
State Facilities	# FED Gen Req	Range (kW)	Req kW
Governors Mansions (0)	0.0	100 - 200	0.0
Major State Government Buildings (1)	0.1	100 - 200	15.0

Transportation	# FED Gen Req	Range (kW)	Req kW
Amtrack Stations (9)	0.0	100 - 300	0.0
Bus Stations (8)	0.0	100 - 300	0.0
Intermodal Terminal Facilities (81)	0.0	100 - 300	0.0
Railroad Stations (9)	0.0	100 - 300	0.0
Public-Use Airports (82)	9.8	40 - 100	688.8

Water and Wastewater	# FED Gen Req	Range (kW)	Req kW
Wastewater Treatment Plants (144)	7.2	35 - 70	378.0

COVID-19

#	County	Cases
1	Hillsborough	455,614
2	Orange	454,463
3	Duval	302,311
4	Pinellas	260,757
5	Polk	245,072
6	Lee	229,428
7	Greenville	193,789
8	Pasco	150,725
9	Volusia	142,714
10	Osceola	137,251
11	Seminole	125,576
12	Manatee	117,012
13	Sarasota	114,303
14	Lexington	113,425
15	Spartanburg	108,230
16	Lake	103,146
17	Collier	100,123
18	Marion	99,562
19	Alachua	84,122
20	Chatham	75,271
21	St. Johns	74,324
22	Anderson	65,031
23	Buncombe	64,685
24	Clay	63,546
25	Richmond	57,319
26	Hernando	51,135
27	Pickens	50,870
28	Beaufort	50,086
29	Aiken	48,166
30	Charlotte	45,089
31	Columbia	40,953
32	Citrus	36,713
33	Cleveland	34,278
34	Henderson	29,831
35	Burke	29,129
36	Highlands	29,120
37	Sumter	27,730
38	Orangeburg	27,553
39	Flagler	27,263

40	Nassau	26,260
41	Glynn	26,161
42	Greenwood	25,163
43	Columbia	24,444
44	Laurens	21,314
45	Putnam	20,430
46	Rutherford	20,024
47	Bulloch	17,342
48	Cherokee	17,079
49	McDowell	16,022
50	Effingham	15,686
51	Newberry	15,189
52	Suwannee	15,067
53	Liberty	14,899
54	Hendry	13,278
55	Camden	13,175
56	Levy	12,087
57	Ware	11,066
58	DeSoto	10,790
59	Bryan	10,562
60	Baker	10,049
61	Hardee	9,921
62	Union	8,891
63	Bradford	8,729
64	Wayne	8,522
65	Edgefield	7,721
66	Toombs	7,709
67	Abbeville	7,248
68	Jasper	6,758
69	Emanuel	6,523
70	Barnwell	6,452
71	Pierce	6,231
72	Yancey	6,060
73	Burke	5,989
74	McDuffie	5,826
75	Hampton	5,654
76	Tattnall	5,600
77	Gilchrist	5,355
78	Appling	5,147
79	Elbert	5,027
80	Union	4,893
81	Dixie	4,708
82	Brantley	4,568
83	Polk	4,502

84	Mitchell	4,352
85	Saluda	4,351
86	Hamilton	4,348
87	Bamberg	4,042
88	Jefferson	4,035
89	Bacon	3,996
90	Long	3,320
91	Charlton	3,312
92	Lafayette	3,044
93	Screven	3,004
94	Evans	2,739
95	McIntosh	2,734
96	Wilkes	2,548
97	McCormick	2,536
98	Johnson	2,496
99	Candler	2,485
100	Clinch	2,393
101	Allendale	2,340
102	Montgomery	2,231
103	Glades	2,224
104	Treutlen	1,785
105	Lincoln	1,759
106	Jenkins	1,680
107	Warren	1,216
108	Echols	1,021
109	Glascock	667

Report Generated by SimSuite

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/#advid=259&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%235&advf=G>