



# Data Analysis Level 2: Crisis FACTS

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Info Challenge 2023



01

# Data Collection Process

What we got, where we got it from, and how we got it.



# Platforms



## Twitter

Often posted close to actual event, live updates



## Facebook

More detailed posts, not as close to event



## News Sources

Resource for many core facts, not as close to event occurrence



## Other

Wikipedia, Reddit, etc.

# How we collected data

## Google Trends

We used the Google Trend graph number of hits per day to gather proportional amounts of data points per day

## Online Searches

Search Terms:  
“Hurricane” + “Florence”  
Or “Dorian” on either Google or a specific social media platform

## Search Dates

Twitter: Filtered posts by exact date

Facebook: Filtered posts by year

News Sources: Google Tools to filter by Date

# Screenshot of Raw Data on Google Sheets

A	B	C	D	E	F	G
row_id	ICS209	sentence_summary	citation_link	platform	date	time
1	36	National Hurricane Center has upped their	<a href="https://www.facebook.com">https://www.facebook.com</a>	Facebook	8/28/2019	11:25 AM
2	36	Florida residents wait in a long line to stock	<a href="https://fb.watch/i-5">https://fb.watch/i-5</a>	Facebook	8/29/2019	2:55 PM
3	28	HURRICANE DORIAN strengthening rapid	<a href="https://www.facebook.com">https://www.facebook.com</a>	Facebook	8/29/2019	11:23 PM
4	36	This is what Hurricane Dorian looks like fro	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:57 PM
5	38	A new reconnaissance aircraft is now enter	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:34 PM
6	36	HWRF model, 72 hours from now. A formic	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:42 PM
7	38	all female crew aboard the Hurricane Hunt	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:25 PM
8	34	HURRICANE DORIAN: School, college an	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:28 PM
9	36	Hurricane Dorian expected to hit Florida as	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:15 PM
10	36	HURRICANE DORIAN: Landfall looks to b	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:42 PM
11	36	Blue line represents the latest Calibrated E	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:04 PM
12	35	We're not sure where #Dorian will make la	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:03 PM
13	34	As Hurricane Dorian disrupts travel plans, .	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:36 PM
14	36	Florida residents wait in a long line to stock	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	6:42 PM
15	36	HurricaneAware app is intended to provide	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:02 PM
16	36	Hurricane Dorian is now predicted to be Ca	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:44 PM
17	36	category 5 hurricane in 24 hours?	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:36 PM
18	34	Florida Public Safety Departments with drc	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:16 PM
19	34	Palm Beach State College will be closed at	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:21 PM
20	34	Miami mayor joined City Manager as well a	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:16 PM
21	36	CATEGORY 4 AT LANDFALL? The latest t	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:24 PM
22	34	RedCross is mobilizing hundreds of trainee	<a href="https://twitter.com">https://twitter.com</a>	Twitter	8/29/2019	7:43 PM

02

# Data Analysis



Most used ICS #

	ICS209	count
1	36	179
2	34	147
3	28	75
4	35	63
5	30	61
6	38	48
7	32	30
8	40	13
9	31	9
10	29	7
11	33	3
12	NA	3
13	39	2
14	37	1

# Summary Statistics



36 = Projected Incident Activity

34 = Life, Safety, and Health Threat Management Details

28 = Significant Events for the Time Period Reported

35 = Weather Concerns

30 = Damage Assessment Information

38 = Current Incident Threat Summary and Risk Information

32 = Responder Status Summary

40 = Strategic Discussion

31 = Public Status Summary

29 = Primary Materials or Hazards Involved

33 = Life, Safety, and Health Status/Threat Remarks

39 = Critical Resource Needs

37 = Strategic Objectives (define planned end-state for incident)

	hour	count
1	7 PM	226
2	6 PM	36
3	5 PM	22
4	2 PM	8
5	11 AM	6
6	8 AM	5
7	10 AM	4
8	3 PM	4
9	4 PM	4
10	7 AM	4
11	8 PM	4
12	1 PM	3
13	6 AM	3
14	10 PM	2
15	12 AM	2
16	12 PM	2
17	9 PM	2
18	11 PM	1
19	2 AM	1
20	5 AM	1
21	NA	1

# Summary Statistics

Most frequent time of posting

Florence

vs

Dorian

	hour	count
1	7 PM	153
2	6 PM	21
3	NA	21
4	11 PM	18
5	5 PM	15
6	2 PM	13
7	1 PM	8
8	3 PM	7
9	9 AM	7
10	10 AM	6
11	11 AM	5
12	4 PM	5
13	8 AM	5
14	12 PM	4
15	10 PM	3
16	NA	3
17	12 AM	2
18	8 PM	2
19	9 PM	2

# Summary Statistics

Most frequent date of posting

Florence

vs

Dorian

	date	count
1	2018-09-12	67
2	2018-09-10	61
3	2018-09-13	48
4	2018-09-09	44
5	2018-09-11	40
6	2018-09-14	32
7	2018-09-15	24
8	2018-09-16	15
9	2018-09-18	3
10	2018-09-17	2
11	2018-09-22	2
12	2018-09-19	1
13	2018-09-20	1
14	2018-09-28	1

Florence made landfall on Sept. 14

	date	count
1	2019-09-02	61
2	2019-09-01	54
3	2019-09-03	35
4	2019-08-31	31
5	2019-08-30	28
6	2019-09-04	24
7	2019-09-05	24
8	2019-08-29	23
9	2019-09-06	12
10	2019-09-09	3
11	NA	3
12	2019-08-28	1
13	2019-09-07	1

Dorian made landfall on Sept. 6



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# Daily Summaries

# Florence 9/9/18

1	ICS209	citation_link	date	time	UNIQUE FACTS				
2	36	<a href="https://www.facebook.com/Simr">https://www.facebook.com/Simr</a>	9/9/2018	6:35:00 AM	Hurricane Florence was located 720 miles southeast of Bermuda moving west at 7mph				
3	36	<a href="https://twitter.com/WAVY_Weather">@WAVY_Weather</a>	9/9/2018	5:01:00 PM	Hampton Roads (NC) is just outside of the cone, but there is still a threat.				
4	36	<a href="https://twitter.com/alhurricane">@alhurricane</a>	9/9/2018	5:17:00 PM	Probability of hurricane force winds are significant for 4 days out				
5	36	<a href="https://twitter.com/philklotzbach">@philklotzbach</a>	9/9/2018	5:23:00 PM	National Hurricane Center is forecasting #Florence in 72 hours to have maximum winds of 150 mph at 30.3°N				
6	34	<a href="https://twitter.com/myfox8/status/1003700000000000000">https://twitter.com/myfox8/status/1003700000000000000</a>	9/9/2018	5:25:00 PM	UNCW issues voluntary evacuation for students starting at 12 p.m. Monday ahead of Hurricane Florence				
7	36	<a href="https://twitter.com/GreenvilleCo">@GreenvilleCo</a>	9/9/2018	5:33:00 PM	5PM Sunday update - winds now at 85mph, heavy rain, inland flooding, strong winds				
8	36	<a href="https://twitter.com/NWSRaleigh">@NWSRaleigh</a>	9/9/2018	5:35:00 PM	center of Florence is expected to make landfall on the southern NC coast as a major hurricane late Thursday				
9	36	<a href="https://twitter.com/weatherchan">@weatherchan</a>	9/9/2018	5:38:00 PM	Hurricane #Florence is expected to rapidly intensify into a major hurricane (Category 3 or stronger) by Monday				
10	28	<a href="https://twitter.com/Windycom/status/1003700000000000000">https://twitter.com/Windycom/status/1003700000000000000</a>	9/9/2018	5:39:00 PM	Eye of Hurricane Florence, Thu 13 Sep. at 2 p.m. AST. Wind gusts up to 142 mph				
11	36	<a href="https://twitter.com/JimCantore">@JimCantore</a>	9/9/2018	6:01:00 PM	(Prediction) #Florence could stall a bit or even loop near the coast				
12	36	<a href="https://twitter.com/NWSAtlanta">@NWSAtlanta</a>	9/9/2018	6:03:00 PM	Chances for seeing Tropical Storm Force winds are increasing for East and Northeast Georgia				
13	35	<a href="https://twitter.com/ThisIsMarietta">@ThisIsMarietta</a>	9/9/2018	6:07:00 PM	Graphic of multiple tropical storms and hurricanes in the Tropics				
14	28	<a href="https://twitter.com/MananaSuns">@MananaSuns</a>	9/9/2018	6:09:00 PM	State of Emergency is declared in the Carolinas				
15	36	<a href="https://twitter.com/Daniel_Bond">@Daniel_Bond</a>	9/9/2018	6:10:00 PM	graphics of possible hurricane paths				
16	36	<a href="https://twitter.com/giles_tropics">@giles_tropics</a>	9/9/2018	6:12:00 PM	(Prediction) Significant inland flooding is possible for North Carolina, Virginia, Maryland, and Delaware				
17	34	<a href="https://twitter.com/SCEMD/status/1003700000000000000">https://twitter.com/SCEMD/status/1003700000000000000</a>	9/9/2018	6:30:00 PM	South Carolina Emergency Management Division truck goes to SC				
18	36	<a href="https://twitter.com/gdimeweather">@gdimeweather</a>	9/9/2018	6:35:00 PM	forecasting 15-20" of rain to fall				
19	36	<a href="https://twitter.com/chicagotribune">@chicagotribune</a>	9/9/2018	6:37:00 PM	winds up to 85 mph				
20	36	<a href="https://twitter.com/MegWJZ">@MegWJZ</a>	9/9/2018	6:45:00 PM	Maryland main impact will be rain				
21	34	<a href="https://twitter.com/bcsopio/status/1003700000000000000">https://twitter.com/bcsopio/status/1003700000000000000</a>	9/9/2018	6:52:00 PM	Public schools and Beaufort County offices open tomorrow (9/10)				
22	34	<a href="https://twitter.com/SCEMD/status/1003700000000000000">https://twitter.com/SCEMD/status/1003700000000000000</a>	9/9/2018	7:04:00 PM	City of Wilmington, NC tweet saying they have begun preparations				
23	36	<a href="https://twitter.com/ABCWorldNews">@ABCWorldNews</a>	9/9/2018	7:12:00 PM	Hurricane Florence has strengthened in the Atlantic, now a Category 1				
24	36	<a href="https://twitter.com/DaDaBuh">@DaDaBuh</a>	9/9/2018	7:12:00 PM	OFF THE NORTH CAROLINA COAST WINDS 120 KNOTS GUST 145				
25	36	<a href="https://twitter.com/splillo/status/1003700000000000000">https://twitter.com/splillo/status/1003700000000000000</a>	9/9/2018	7:20:00 PM	last 12 hours, deep convection has become persistent near the center with expanding cirrus outflow				
26	34	<a href="https://twitter.com/HPRESQ">@HPRESQ</a>	9/9/2018	7:22:00 PM	Hurricane Pet Safety Tips				
27	35	<a href="https://twitter.com/JesseWFIA">@JesseWFIA</a>	9/9/2018	7:30:00 PM	(Prediction) hurricane with winds in excess of 140 MPH is possible				
28	35	<a href="https://twitter.com/wfaaweather">@wfaaweather</a>	9/9/2018	7:30:00 PM	(Prediction) Landfall as a major, category 4				
29	36	<a href="https://twitter.com/7Weather">@7Weather</a>	9/9/2018	7:52:00 PM	(Prediction) Expect hurricane watches - issued SOON for parts of the east coast				

# Florence 9/10/18

	ICS209	citation_link	date	time	UNIQUE FACTS
30	36	<a href="https://www.facebook.com/FOX">https://www.facebook.com/FOX</a>	9/10/2018	4:00:00 PM	"upgraded to a Category 4
31	34	<a href="https://twitter.com/SCEMD/stat">https://twitter.com/SCEMD/stat</a>	9/10/2018	6:09:00 PM	SC Emergency Manager app will tell you if you need to evacuate
32	36	<a href="https://twitter.com/CBSEvening">https://twitter.com/CBSEvening</a>	9/10/2018	6:35:00 PM	(Prediction) Florence could be close to a Category 5 by Tuesday
33	34	<a href="https://twitter.com/PhillyFireDep">https://twitter.com/PhillyFireDep</a>	9/10/2018	6:54:00 PM	PhillyFireDept and PATaskForce1 will deploy to South Carolina
34	34	<a href="https://twitter.com/starsandstrip">https://twitter.com/starsandstrip</a>	9/10/2018	6:56:00 PM	Marines recruit training facility at Parris Island in South Carolina will begin mandatory evacuations Tuesday
35	34	<a href="https://twitter.com/OutFrontCN">https://twitter.com/OutFrontCN</a>	9/10/2018	7:06:00 PM	governor of North Carolina has issued mandatory evacuation orders
36	34	<a href="https://twitter.com/ABC/status/1">https://twitter.com/ABC/status/1</a>	9/10/2018	7:06:00 PM	Virginia Gov. Northam issues mandatory evacuation order
37	36	<a href="https://twitter.com/StevenWoah">https://twitter.com/StevenWoah</a>	9/10/2018	7:07:00 PM	Precipitation prediction
38	34	<a href="https://twitter.com/thehill/status">https://twitter.com/thehill/status</a>	9/10/2018	7:07:00 PM	Virginia representatives urge Trump to declare federal emergency ahead of Hurricane Florence
39	36	<a href="https://twitter.com/InsideNoVA/s">https://twitter.com/InsideNoVA/s</a>	9/10/2018	7:08:00 PM	Life-threatening flooding expected in parts of Virginia
40	34	<a href="https://twitter.com/EmergencyM">https://twitter.com/EmergencyM</a>	9/10/2018	7:11:00 PM	FEMA stages relief supplies at Fort Bragg; North Carolina National Guard troops brace for Hurricane Florence
41	35	<a href="https://twitter.com/lmkmak/stat">https://twitter.com/lmkmak/stat</a>	9/10/2018	7:19:00 PM	(Prediction) Washington received a year's worth of rain by late August. Saturated soil + poorly rooted trees + strong winds = bad news
42	34	<a href="https://twitter.com/nbcwashington">https://twitter.com/nbcwashington</a>	9/10/2018	7:20:00 PM	U.S. Navy is sending nearly 30 of its Virginia-based ships out to sea as Hurricane Florence barrels toward the Atlantic Coas
43	34	<a href="https://twitter.com/NYTNational/">https://twitter.com/NYTNational/</a>	9/10/2018	7:26:00 PM	governor of South Carolina ordered more than a million people along the coast to evacuate inland
44	34	<a href="https://twitter.com/gretagwen/st">https://twitter.com/gretagwen/st</a>	9/10/2018	7:31:00 PM	Red Cross volunteer prepares to go to NC
45	36	<a href="https://twitter.com/JimGandyW">https://twitter.com/JimGandyW</a>	9/10/2018	7:38:00 PM	(Prediction) Most likely landfall North Carolina. Impacts will be felt from South Carolina to Virginia
46	34	<a href="https://twitter.com/VaNationalG">https://twitter.com/VaNationalG</a>	9/10/2018	7:40:00 PM	Va. National Guard is bringing up to 1,500 personnel on duty for Hurricane #Florence response operations. GovernorVA authorized up to 6,000 personnel for response operations if needed and those additional personnel are on standby
47	34	<a href="https://twitter.com/WDTN/status">https://twitter.com/WDTN/status</a>	9/10/2018	7:41:00 PM	Ohio Task Force 1 is sending a team to a location in North Carolina Tuesday morning
48	28	<a href="https://twitter.com/StuOstro/stat">https://twitter.com/StuOstro/stat</a>	9/10/2018	7:44:00 PM	(Prediction?) below-avg water temps in the tropical Atlantic and a relatively quiet year, above-avg ones will play a role in the intensity of a dangerous #hurricane #Florence heading for land
49	34	<a href="https://twitter.com/thehill/status">https://twitter.com/thehill/status</a>	9/10/2018	7:46:00 PM	Navy evacuates almost 1,000 troops ahead of Hurricane Florence
50	34	<a href="https://twitter.com/BeauDrakeC">https://twitter.com/BeauDrakeC</a>	9/10/2018	7:47:00 PM	Chester County Rescue Task Force is sending 3 members from #ChesCo
51	34	<a href="https://twitter.com/fortjackson/st">https://twitter.com/fortjackson/st</a>	9/10/2018	7:47:00 PM	Fort Jackson Hurricane Florence Update - Evacuation of 8 coastal counties
52	34	<a href="https://twitter.com/CityofDurham">https://twitter.com/CityofDurham</a>	9/10/2018	7:51:00 PM	If you experience a power outage during Hurricane #Florence, report it directly to @DukeEnergy at <a href="https://duke-energy.com/outages">https://duke-energy.com/outages</a>
53	34	<a href="https://twitter.com/IN_Task_Fon">https://twitter.com/IN_Task_Fon</a>	9/10/2018	7:51:00 PM	Indiana Task Force #1 personnel, Structural Specialist Dave Cook and Logistics Specialists Mark Rapp Jr have been activated for deployment with the FEMA Urban Search & Rescue Incident Support Team assigned to Hurricane Florence
54	35	<a href="https://twitter.com/LuraThunem">https://twitter.com/LuraThunem</a>	9/10/2018	7:55:00 PM	(Prediction) 50 Foot Waves possible
55	36	<a href="https://twitter.com/SpenoLawn">https://twitter.com/SpenoLawn</a>	9/10/2018	7:55:00 PM	(Prediction) Hurricane Florence is coming straight for Raleigh
56	34	<a href="https://twitter.com/starsandstrip">https://twitter.com/starsandstrip</a>	9/10/2018	7:55:00 PM	Atlanta Humane Society takes in 35 animals ahead of Hurricane Florence
57	34	<a href="https://twitter.com/CabbageTV/t">https://twitter.com/CabbageTV/t</a>	9/10/2018	7:55:00 PM	evacuation will reverse traffic on several SC highways
58	34	<a href="https://twitter.com/NewsNetNM">https://twitter.com/NewsNetNM</a>	9/10/2018	7:55:00 PM	Michigan is deploying State Police Personnel to Philadelphia
59	36	<a href="https://twitter.com/scook2214/st">https://twitter.com/scook2214/st</a>	9/10/2018	7:55:00 PM	Prediction GFS 10 day model precipitation forecast totals from Hurricane Florence 6 pm EST
60	34	<a href="https://twitter.com/Sussex_Jone">https://twitter.com/Sussex_Jone</a>	9/10/2018	7:55:00 PM	Trains canceled.
61	35	<a href="https://twitter.com/climate_u/sta">https://twitter.com/climate_u/sta</a>	9/10/2018	7:56:00 PM	Hurricane Florence raises questions about link between climate change, severe storms
62	35	<a href="https://twitter.com/GregTannerIV">https://twitter.com/GregTannerIV</a>	9/10/2018	7:56:00 PM	Hurricane Florence winds 130-156 mph
63	34	<a href="https://twitter.com/johndissauer">https://twitter.com/johndissauer</a>	9/10/2018	7:56:00 PM	State of Emergency has been declared MD, VA,
64	36	<a href="https://twitter.com/EricHolt huis">https://twitter.com/EricHolt huis</a>	9/10/2018	7:57:00 PM	(Prediction) Hurricane Florence, now a Category 4, still has the warmest waters ahead of its path. (It will get worse)
65	36	<a href="https://twitter.com/SAT24_WEA">https://twitter.com/SAT24_WEA</a>	9/10/2018	7:57:00 PM	expectations of catastrophic damage. Well-built homes can lose walls/roofs. Trees can be snapped or uprooted. Electricit, power can go out for days (Source Hurricane centre)
66	34	<a href="https://twitter.com/KRMGtulsa/s">https://twitter.com/KRMGtulsa/s</a>	9/10/2018	7:58:00 PM	Delta caps fares for flights from cities in path of Hurricane Florence
67	34	<a href="https://twitter.com/HappyTailsR">https://twitter.com/HappyTailsR</a>	9/10/2018	7:58:00 PM	State of Virginia has issued a mandatory evacuation for Zone A
68	36	<a href="https://twitter.com/michaelwhite">https://twitter.com/michaelwhite</a>	9/10/2018	7:58:00 PM	Thursday night landfall is projected for Florence around the SC/NC state line
69	34	<a href="https://twitter.com/s_wood12/st">https://twitter.com/s_wood12/st</a>	9/10/2018	7:59:00 PM	CNU's baseball field infield sees water as a foreign substance. Any and all will be safe on the dryest place in the 757.

# Florence 9/11/18

1	ICS209	citation_link	date	time	UNIQUE FACTS
72	34	<a href="https://www.facebook.com/7Ne">https://www.facebook.com/7Ne</a>	9/11/2018	11:42:00 AM	7News DC was live covering an announcement about evacuation plans and showing traffic as people evacuate
73	36	<a href="https://www.facebook.com/Now">https://www.facebook.com/Now</a>	9/11/2018	2:00:00 PM	State of emergency have been called in Washington D.C.
74	36	<a href="https://twitter.com/NHC_Atlantic">https://twitter.com/NHC_Atlantic</a>	9/11/2018	5:05:00 PM	Hurricane Warning from South Santee River, South Carolina, to Duck, North Carolina, including the Pamlico and Albemarle Sounds
75	36	<a href="https://twitter.com/CBSEvening">https://twitter.com/CBSEvening</a>	9/11/2018	7:20:00 PM	could bring a storm surge of up to 13 feet
76	34	<a href="https://twitter.com/SamaritansP">https://twitter.com/SamaritansP</a>	9/11/2018	7:20:00 PM	Hurricane Florence continues to make its way across the #Atlantic. Our disasterrelief team stands ready to respond in Jesus' Name
77	34	<a href="https://twitter.com/ApxPolice/s">https://twitter.com/ApxPolice/s</a>	9/11/2018	7:24:00 PM	Some important information on reporting power outages, trees down and flooding during hurricane Florence.
78	28	<a href="https://twitter.com/JohnGummis">https://twitter.com/JohnGummis</a>	9/11/2018	7:27:00 PM	Cloud shield is roughly 363 miles across. Hurricane force winds extend 60 miles out from the center with tropical storm force winds extending 175 miles from the center.
79	34	<a href="https://twitter.com/HSVUtilities/">https://twitter.com/HSVUtilities/</a>	9/11/2018	7:28:00 PM	HURRICANE FLORENCE AID! 5 HU trucks & a team of our linemen left HSV today to help restore power.
80	34	<a href="https://twitter.com/BrittanyNC9/">https://twitter.com/BrittanyNC9/</a>	9/11/2018	7:37:00 PM	Choppers on standby for Hurricane Florence are coming in to the Chattanooga Airport. This one landing now is the 4th one we can see.
81	36	<a href="https://twitter.com/EpochTimes/">https://twitter.com/EpochTimes/</a>	9/11/2018	7:40:00 PM	Path Narrows, Forecast to 'Stall'
82	29	<a href="https://twitter.com/virginiapilot/">https://twitter.com/virginiapilot/</a>	9/11/2018	7:41:00 PM	Toxic sludge and pig manure are among the dangers from Hurricane Florence
83	30	<a href="https://twitter.com/JessicaRody">https://twitter.com/JessicaRody</a>	9/11/2018	7:42:00 PM	Potomac River (DC) at flood stage
84	36	<a href="https://twitter.com/PAWeatherPI">https://twitter.com/PAWeatherPI</a>	9/11/2018	7:43:00 PM	Extreme surge expected at the coast. Significant flooding inland.
85	34	<a href="https://twitter.com/ranoketime">https://twitter.com/ranoketime</a>	9/11/2018	7:45:00 PM	Hollins University joined a number of schools near the coast in cancelling classes ahead of Hurricane Florence
86	34	<a href="https://twitter.com/WFMY/status">https://twitter.com/WFMY/status</a>	9/11/2018	7:46:00 PM	Charlotte Motor Speedway Opens Campground to Hurricane Florence Evacuees
87	36	<a href="https://twitter.com/BuzzFeedNe">https://twitter.com/BuzzFeedNe</a>	9/11/2018	7:46:00 PM	predicted historic flooding for beaches in Hurricane Florence's path.
88	34	<a href="https://twitter.com/CNN/status/1">https://twitter.com/CNN/status/1</a>	9/11/2018	7:51:00 PM	The American Radio Relay League said it sent 7 ham radio kits to South Carolina to assist with emergency communication ahead of Hurricane Florence.
89	34	<a href="https://twitter.com/RepDonBaco">https://twitter.com/RepDonBaco</a>	9/11/2018	7:55:00 PM	3 people from Omaha, along with 8 other Nebraskans, who are setting out to assist with whatever is needed after the impending damage from Hurricane Florence.
90	36	<a href="https://twitter.com/WeatherNatic">https://twitter.com/WeatherNatic</a>	9/11/2018	7:55:00 PM	Hurricane Florence remains at 140mph, 945mb
91	36	<a href="https://twitter.com/ABCNews4/s">https://twitter.com/ABCNews4/s</a>	9/11/2018	7:59:00 PM	(Prediction) the Lowcountry could see significant impacts even if the eye makes landfall well to our north.
92	34	<a href="https://twitter.com/UNC/status/1">https://twitter.com/UNC/status/1</a>	9/11/2018	8:22:00 PM	University North Carolina Chapel Hill - For students with no relocation options, emergency response officials will be on campus and ready to assist if there is a threat to safety. Student Affairs will be in touch directly with students who remain in the residence halls
93	34	<a href="https://fb.watch/WBeNB_hG/">https://fb.watch/WBeNB_hG/</a>	9/11/2018	9:18:00 PM	six million people across four states in the threat zone

# Florence 9/12/18

1	ICS209	citation_link	date	time	UNIQUE FACTS
95	32	<a href="https://www.facebook.com/redc">https://www.facebook.com/redc</a>	9/12/2018	2:45:00 PM	American Red Cross
96	36	<a href="https://fb.watch/lZRn05v5/">https://fb.watch/lZRn05v5/</a>	9/12/2018	4:40:00 PM	expected to hit Friday and Saturday at Category 3 strength
97	34	<a href="https://twitter.com/DE_AnaGibb">https://twitter.com/DE_AnaGibb</a>	9/12/2018	7:16:00 PM	DukeEnergy crews who left Florida at approx 7am, have arrived safely at Darlington Raceway in South Carolina. 1,200 FL workers are ready to respond to Hurricane #Florence! More than 20,000 people are mobilizing to attack restoration!
98	35	<a href="https://twitter.com/MSchleifstein">https://twitter.com/MSchleifstein</a>	9/12/2018	7:19:00 PM	Hurricane wind warnings and storm surge warnings don't cover the same area. Surge can affect areas not in the wind bubble. And surge heights can be accompanied by high tides and by waves half again as high!
99	34	<a href="https://twitter.com/RedCrossMis">https://twitter.com/RedCrossMis</a>	9/12/2018	7:19:00 PM	Mississippi Region Red Crossers supporting Hurricane Florence disaster relief
100	35	<a href="https://twitter.com/StormHour/st">https://twitter.com/StormHour/st</a>	9/12/2018	7:22:00 PM	A high-definition video camera outside the space station captured stark and sobering views of Hurricane Florence, a Category 4 storm - NASA
101	34	<a href="https://twitter.com/CBPFlorida/s">https://twitter.com/CBPFlorida/s</a>	9/12/2018	7:26:00 PM	U.S. Customs and Border Protection officers and agents + Air and Marine Operations Black Hawk crews are arriving from locations across the United States to help
102	34	<a href="https://twitter.com/ThePressofA">https://twitter.com/ThePressofA</a>	9/12/2018	7:30:00 PM	Ocean Resort Casino offering free lodging to those affected by Hurricane Florence
103	34	<a href="https://twitter.com/theopintsguy">https://twitter.com/theopintsguy</a>	9/12/2018	7:32:00 PM	Airbnb is giving free lodging to Hurricane Florence evacuees
104	34	<a href="https://twitter.com/CAFirefighter">https://twitter.com/CAFirefighter</a>	9/12/2018	7:33:00 PM	NorCal's elite firefighters, part of Task Force 7, are on their way to help respond to Hurricane Florence
105	34	<a href="https://twitter.com/myfox8/status">https://twitter.com/myfox8/status</a>	9/12/2018	7:35:00 PM	Greensboro declares state of emergency ahead of Hurricane Florence, joins Guilford County (High Point, Greensboro, Winston-Salem, Piedmont Triad, NC)
106	34	<a href="https://twitter.com/NJSP/status">https://twitter.com/NJSP/status</a>	9/12/2018	7:35:00 PM	North Carolina Governor Roy Cooper stopped by to meet with and thank the members of NJ Task Force One that have deployed to Kinston, North Carolina ahead of Hurricane Florence making landfall
107	35	<a href="https://twitter.com/severeweath">https://twitter.com/severeweath</a>	9/12/2018	7:36:00 PM	Hurricane Florence is now a CAT 3 storm, but remains a very large and dangerous hurricane. It will bring life-threatening conditions into coastal North Carolina tomorrow late afternoon. Flooding, major storm surge and destructive winds are expected.
108	34	<a href="https://twitter.com/GeoffDuncan">https://twitter.com/GeoffDuncan</a>	9/12/2018	7:41:00 PM	Gov. Deal has also declared a state of emergency for all 159 counties in Georgia
109	35	<a href="https://twitter.com/StormOfCorm">https://twitter.com/StormOfCorm</a>	9/12/2018	7:44:00 PM	isolated tornadoes on Carolina Coast
110	34	<a href="https://twitter.com/starsandstrip">https://twitter.com/starsandstrip</a>	9/12/2018	7:45:00 PM	Camp Lejeune's commanding general has decided not to issue mandatory evacuation orders as Hurricane Florence bears down, fraying nerves as local officials in the surrounding area warn citizens to leave or face potentially deadly consequences
111	29	<a href="https://twitter.com/CenterForBic">https://twitter.com/CenterForBic</a>	9/12/2018	7:45:00 PM	could create a threat to public health & the environment.
112	28	<a href="https://twitter.com/Windycom/st">https://twitter.com/Windycom/st</a>	9/12/2018	7:45:00 PM	Wind gusts up to 111 mph
113	36	<a href="https://twitter.com/NJSP/status/">https://twitter.com/NJSP/status/</a>	9/12/2018	7:46:00 PM	1-3 million power outages expected in the Carolinas due to Hurricane Florence, Duke Energy estimates
114	36	<a href="https://twitter.com/KWCHPEytor">https://twitter.com/KWCHPEytor</a>	9/12/2018	7:47:00 PM	[Major Hurricane Florence Water Vapor Imagery: 745 pm] Latest water vapor imagery of Major Hurricane Florence spinning off the southeast Atlantic coast
115	35	<a href="https://twitter.com/NWSWilming">https://twitter.com/NWSWilming</a>	9/12/2018	7:49:00 PM	Due to record-breaking rains in May-July, we have had 62.60" of rain this year at ILM. With #Florence stalling near our coast and catastrophic flooding expected, 21.05" would break the record for most rainfall in a calendar year..... with 3+ months to go
116	36	<a href="https://twitter.com/JustinStirmR">https://twitter.com/JustinStirmR</a>	9/12/2018	7:52:00 PM	Southerly shear has allowed a lot of dry air to entrain into the circulation and it has significantly eaten away the southern half of the core. This will hinder any type of intensification to occur. Good news for NC/SC folk
117	38	<a href="https://twitter.com/NHC_Atlantic">https://twitter.com/NHC_Atlantic</a>	9/12/2018	7:54:00 PM	Hurricane #Florence Advisory 54A: Florence Weakens Slightly as it Continues Toward the Carolina Coastal Areas
118	28	<a href="https://twitter.com/sbullenWX/st">https://twitter.com/sbullenWX/st</a>	9/12/2018	7:55:00 PM	Florence is still a major hurricane but the winds have weakened and the southwest quadrant looks a bit ragged this evening
119	36	<a href="https://twitter.com/BethNyrange">https://twitter.com/BethNyrange</a>	9/12/2018	7:55:00 PM	Hurricane Florence threatens to unleash catastrophic inland flooding in Carolinas, Virginia
120	34	<a href="https://twitter.com/WEAU13New">https://twitter.com/WEAU13New</a>	9/12/2018	7:55:00 PM	More than 30 volunteers from Northwestern Wisconsin have been sent out with the American Red Cross to help provide relief as Hurricane Florence is poised to hit the Southeast Coast
121	36	<a href="https://twitter.com/BrodyLevesq">https://twitter.com/BrodyLevesq</a>	9/12/2018	7:55:00 PM	NOAA/NHC- MIAMI: WEDNESDAY 8PM - Hurricane Florence now set to crawl up to the North Carolina coast Thursday and turn slowly left -- a development adding life-threatening storm surges, catastrophic winds & inundating rain while also endangering
122	29	<a href="https://twitter.com/MyShieldInRe">https://twitter.com/MyShieldInRe</a>	9/12/2018	7:55:00 PM	Urgent! Florence Threatening 12 Nuclear Plants! Hurricane Florence With Life-Threatening Storm Surge, Over a Million Mandatory Evacuations Underway
123	34	<a href="https://twitter.com/JanisYounar">https://twitter.com/JanisYounar</a>	9/12/2018	7:56:00 PM	266 Inmates from SC Prison Evacuated Due to Hurricane Florence
124	36	<a href="https://twitter.com/commandon">https://twitter.com/commandon</a>	9/12/2018	7:56:00 PM	Hurricane Florence threatens nearly 759,000 homes. Reconstruction for the affected homes could total \$170 billion
125	35	<a href="https://twitter.com/enigamid/stal">https://twitter.com/enigamid/stal</a>	9/12/2018	7:56:00 PM	Hurricane Florence: US east coast to be hit by 40 inches of rain
126	34	<a href="https://twitter.com/KeeneFire/st">https://twitter.com/KeeneFire/st</a>	9/12/2018	7:56:00 PM	Lt. Ray Phillips of @KeeneFire has also been deployed with the @MassTaskforce1 from Beverly Ma. We wish Ray and all the members of the MATF-1 a safe mission as they assist in the response to hurricane florence.
127	34	<a href="https://twitter.com/YamCoWatch">https://twitter.com/YamCoWatch</a>	9/12/2018	7:56:00 PM	Oregon Air National Guard 125th Special Tactics Squadron deploys Airmen to support Hurricane Florence relief - Oregon Military Department
128	34	<a href="https://twitter.com/CraigPBSmil">https://twitter.com/CraigPBSmil</a>	9/12/2018	7:56:00 PM	Residents from the Carolinas evacuating for Hurricane Florence take refuge in Maine
129	36	<a href="https://twitter.com/LeeGoldberg">https://twitter.com/LeeGoldberg</a>	9/12/2018	7:57:00 PM	8pm Florence Advisory. WInds have decreased to 115mph. Still a major category 3 hurricane
130	36	<a href="https://twitter.com/WECTWeath">https://twitter.com/WECTWeath</a>	9/12/2018	7:58:00 PM	Center 335 miles from Wilmington
131	35	<a href="https://twitter.com/TFMnationch">https://twitter.com/TFMnationch</a>	9/12/2018	7:58:00 PM	Hurricane Florence Is Hitting Tampa Florida
132	36	<a href="https://twitter.com/WRALAlmea">https://twitter.com/WRALAlmea</a>	9/12/2018	7:58:00 PM	It's moving NW at 16mph
133	34	<a href="https://twitter.com/mark_urbans">https://twitter.com/mark_urbans</a>	9/12/2018	7:58:00 PM	Portsmouth-based group Mercy Chefs gears up to serve thousands of meals during Hurricane Florence
134	34	<a href="https://twitter.com/hansvesiberg">https://twitter.com/hansvesiberg</a>	9/12/2018	7:58:00 PM	Verizon stands ready to support our customers, employees, and neighbors before, during, and after Hurricane #Florence. We have lifted data and text caps for those in the affected areas
135	34	<a href="https://twitter.com/LloydCBisho">https://twitter.com/LloydCBisho</a>	9/12/2018	7:59:00 PM	Hospitals prepare or evacuate for Hurricane Florence

# Florence 9/13/18

1	ICS209	citation_link	date	time	UNIQUE FACTS
137	36	<a href="https://fb.watch/lZRxP3yckj/">https://fb.watch/lZRxP3yckj/</a>	9/13/2018	11:17:00 AM	Hurricane Florence remains Category 2.
138	30	<a href="https://fb.watch/lZRV_4GNcr/">https://fb.watch/lZRV_4GNcr/</a>	9/13/2018	11:35:00 AM	Ocean over wash all the way onto route 12.
139	35	<a href="https://www.facebook.com/Scie">https://www.facebook.com/Scie</a>	9/13/2018	2:00:00 PM	Category 4 is so enormous EU scientist Alexander Gerst said it could only be captured with a super wide-angle lens, 400 km directly above the eye. NASA Images
140	28	<a href="https://www.facebook.com/nasa">https://www.facebook.com/nasa</a>	9/13/2018	2:29:00 PM	At 2 p.m. Eastern Daylight Time on September 12, the center of the storm was 435 miles (700 kilometers) southeast of Wilmington, North Carolina. The National Hurricane Center and U.S. Air Force reported sustained winds of 125 mile
141	35	<a href="https://twitter.com/ABC/status/1">https://twitter.com/ABC/status/1</a>	9/13/2018	7:16:00 PM	Tropical storm-force winds lash the North Carolina coast as Hurricane Florence approaches
142	35	<a href="https://twitter.com/rickheede/sta">https://twitter.com/rickheede/sta</a>	9/13/2018	7:20:00 PM	Florence: 10 trillion gallons of precipitation
143	36	<a href="https://twitter.com/Kevin_Amon">https://twitter.com/Kevin_Amon</a>	9/13/2018	7:26:00 PM	Hurricane #Florence getting a bit stronger before landfall
144	34	<a href="https://twitter.com/NYCEMSwal">https://twitter.com/NYCEMSwal</a>	9/13/2018	7:26:00 PM	One hundred and five EMS Ambulances are on standby, with enough supplies to last up to 72 hours, as support for the Hurricane Florence relief efforts
145	36	<a href="https://twitter.com/starsandstrip">https://twitter.com/starsandstrip</a>	9/13/2018	7:27:00 PM	7,000 U.S. troops waiting to help with search-and-rescue efforts
146	34	<a href="https://twitter.com/MayorBowse">https://twitter.com/MayorBowse</a>	9/13/2018	7:27:00 PM	As Hurricane Florence moves away from majorly impacting the District, I have rescinded the state of emergency order.
147	30	<a href="https://twitter.com/ChadBlue83/">https://twitter.com/ChadBlue83/</a>	9/13/2018	7:27:00 PM	Flooding from Hurricane #Florence in New Bern, North Carolina
148	28	<a href="https://twitter.com/zaiabatsu/stat">https://twitter.com/zaiabatsu/stat</a>	9/13/2018	7:28:00 PM	Hurricane Florence starts to hit Carolina coast
149	34	<a href="https://twitter.com/OKCFD/statu">https://twitter.com/OKCFD/statu</a>	9/13/2018	7:28:00 PM	Oklahoma Taskforce 1 - Swift Water Rescue Team has been activated. A 20 member team will deploy at 8:00 a.m tomorrow.
150	36	<a href="https://twitter.com/philkoltzbach">https://twitter.com/philkoltzbach</a>	9/13/2018	7:30:00 PM	#Hurricane #Florence has now been a named storm for 13 days
151	34	<a href="https://twitter.com/SenRickScot">https://twitter.com/SenRickScot</a>	9/13/2018	7:31:00 PM	Multiple disaster response teams from FL have deployed to help Hurricane Florence response and recovery efforts
152	35	<a href="https://twitter.com/NBCNews/st">https://twitter.com/NBCNews/st</a>	9/13/2018	7:31:00 PM	Powerful winds from Hurricane Florence are lashing Radio Island, NC,
153	34	<a href="https://twitter.com/NCCourts/sta">https://twitter.com/NCCourts/sta</a>	9/13/2018	7:32:00 PM	Chief Justice Martin Issues Order for Counties Subject to Mandatory Evacuation due to Hurricane Florence
154	36	<a href="https://twitter.com/Mel_khinz/st">https://twitter.com/Mel_khinz/st</a>	9/13/2018	7:32:00 PM	essentially stalled out off the NC Coast...maintaining intensity with the warm Gulf Stream waters
155	35	<a href="https://twitter.com/Camp_SeaG">https://twitter.com/Camp_SeaG</a>	9/13/2018	7:32:00 PM	Hurricane Florence has arrived at Camp Sea Gull
156	36	<a href="https://twitter.com/OutFrontCN">https://twitter.com/OutFrontCN</a>	9/13/2018	7:32:00 PM	Mayor Sammy Phillips tells Kate Bolduan he does not know if the structures in Jacksonville, NC will be able to handle the pending storm surge as a result of Hurricane Florence
157	36	<a href="https://twitter.com/GMA/status/">https://twitter.com/GMA/status/</a>	9/13/2018	7:35:00 PM	ABC News special LIVE coverage of Hurricane #Florence making landfall, TONIGHT 2amET
158	34	<a href="https://twitter.com/NBCNews/st">https://twitter.com/NBCNews/st</a>	9/13/2018	7:35:00 PM	Myrtle Beach, South Carolina, one resident is on a mission to evacuate hundreds of pets before the storm strikes
159	28	<a href="https://twitter.com/afreedma/sta">https://twitter.com/afreedma/sta</a>	9/13/2018	7:37:00 PM	Northern eyewall of Hurricane #Florence strafing the NC coast, with a 97 mph wind gust at Cape Lookout, NC.
160	34	<a href="https://twitter.com/USCGAux/st">https://twitter.com/USCGAux/st</a>	9/13/2018	7:41:00 PM	The U.S. Coast Guard Marine Safety Unit of Huntington has deployed to Greensboro, North Carolina, ahead of Hurricane Florence, a Category 4 storm expected to make landfall by at least Thursday
161	34	<a href="https://twitter.com/Jammin999/s">https://twitter.com/Jammin999/s</a>	9/13/2018	7:42:00 PM	Wilmington, NC Police Department - Thousands are already without power, and we haven't even experienced the worst of Hurricane #Florence. If you come across a downed power line, DO NOT APPROACH IT. Downed power lines ca
162	35	<a href="https://twitter.com/OutFrontCN">https://twitter.com/OutFrontCN</a>	9/13/2018	7:54:00 PM	"A cube of water, four feet by four feet ... weighs as much as a car. That's how much destructive potential is being pushed inland by the storm surge tonight." Tom Foreman
163	34	<a href="https://twitter.com/MS_Power/st">https://twitter.com/MS_Power/st</a>	9/13/2018	7:54:00 PM	Mississippi Power crews have safely arrived at their first stop in Conyers, Georgia! They are ready to safely and efficiently assist with power restoration as soon as Hurricane #Florence moves through
164	36	<a href="https://twitter.com/CBSEvening/">https://twitter.com/CBSEvening/</a>	9/13/2018	7:55:00 PM	maximum sustained winds of 100 mph (Hurricane-Force)
165	38	<a href="https://twitter.com/VanFlight/sta">https://twitter.com/VanFlight/sta</a>	9/13/2018	7:58:00 PM	Currently there are virtually no flights over the east coast of #SouthCarolina as #Florence is hitting the state
166	35	<a href="https://twitter.com/Gol_Gotha/st">https://twitter.com/Gol_Gotha/st</a>	9/13/2018	7:58:00 PM	Hurricane Florence's Rains May Be 50% Worse Thanks to Climate Change - National Geographic
167	34	<a href="https://twitter.com/MPRnews/st">https://twitter.com/MPRnews/st</a>	9/13/2018	7:59:00 PM	Among the Minnesotans headed for the southeastern U.S. this week to assist in the response to Hurricane Florence will be a Burnsville-based Jewish relief group that specializes in helping people save their homes after a disaster
168	36	<a href="https://twitter.com/7Weather/sta">https://twitter.com/7Weather/sta</a>	9/13/2018	7:59:00 PM	down from 105 to 100 mph winds
169	28	<a href="https://www.facebook.com/WNK">https://www.facebook.com/WNK</a>	9/13/2018	8:14:00 PM	VIDEO: Hurricane Florence floods streets in Carolina Beach

# Florence 9/14-9/22

1	ICS209	citation_link	date	time	UNIQUE FACTS
171	30	<a href="https://www.facebook.com/ABC">https://www.facebook.com/ABC</a>	9/14/2018	12:00:00 AM	Video of High Tide in Avon (NC) before Hurricane Florence hit
172	28	<a href="https://twitter.com/NHC_Atlantic">https://twitter.com/NHC_Atlantic</a>	9/14/2018	7:38:00 AM	landfall near Wrightsville Beach, North Carolina at 7:15 AM EDT (1115 UTC) with estimated maximum winds of 90 mph (150 km/h), and a minimum central pressure estimate of 958 mb
173	30	<a href="https://www.facebook.com/WJES">https://www.facebook.com/WJES</a>	9/14/2018	1:01:00 PM	DC, Coastal flooding watches have been issued.
174	30	<a href="https://fb.watch/lW1RU7zziC/">https://fb.watch/lW1RU7zziC/</a>	9/14/2018	3:23:00 PM	NBC News video clip of flooded Front St. in downtown Beaufort, NC
175	32	<a href="https://fb.watch/ZQ8TsgdS/">https://fb.watch/ZQ8TsgdS/</a>	9/14/2018	3:57:00 PM	FLORENCE 1st FATALITIES: A mom and an infant were killed after a large tree came crashing down on their home in North Carolina, becoming the first fatalities of Hurricane Florence, according to police
176	28	<a href="https://twitter.com/thehill/status/">https://twitter.com/thehill/status/</a>	9/14/2018	6:55:00 PM	Meteorologists cut broadcast, evacuate news station during Hurricane Florence
177	28	<a href="https://twitter.com/philkotzbach">https://twitter.com/philkotzbach</a>	9/14/2018	7:08:00 PM	#Hurricane #Florence's landfall pressure of 958 hPa
178	34	<a href="https://twitter.com/CharMeekSc">https://twitter.com/CharMeekSc</a>	9/14/2018	7:12:00 PM	Several of our schools are being used as Hurricane Florence evacuate shelters. We are so happy to open our doors and arms to neighbors in need
179	30	<a href="https://twitter.com/Gamecockin">https://twitter.com/Gamecockin</a>	9/14/2018	7:32:00 PM	Small gust of wind from Hurricane #Florence at Planter's Pointe in Mt. Pleasant SC
180	36	<a href="https://twitter.com/UNC/status/1">https://twitter.com/UNC/status/1</a>	9/14/2018	7:35:00 PM	a high likelihood for falling branches, trees and power lines. Please stay inside and exercise caution at all times — particularly after it gets dark
181	3	<a href="https://twitter.com/FoxBusiness">https://twitter.com/FoxBusiness</a>	9/14/2018	7:45:00 PM	Fewer homes in storm's path have flood insurance
182	28	<a href="https://twitter.com/ericfisher/stal">https://twitter.com/ericfisher/stal</a>	9/14/2018	7:46:00 PM	NWS confirms that the surge peak of 7.28 feet MLLW is a new high-water mark in Beaufort, NC. Beats record previous held by Hurricane Ophelia in 2005
183	28	<a href="https://twitter.com/azcentral/stal">https://twitter.com/azcentral/stal</a>	9/14/2018	7:49:00 PM	VIDEO: Water from the Pungo River in Belhaven rushed in to this neighborhood trapping people in the wake of Hurricane Florence
184	34	<a href="https://twitter.com/WhiteHouse">https://twitter.com/WhiteHouse</a>	9/14/2018	7:57:00 PM	FEMA is readily supporting the needs of affected areas as state and local officials lead the disaster response to Hurricane Florence
185	28	<a href="https://twitter.com/Space_Static">https://twitter.com/Space_Static</a>	9/14/2018	7:58:00 PM	Hurricane Florence is pictured from the International Space Station as a category 1 storm Friday morning as it was making landfall near Wrightsville Beach, North Carolina
186	30	<a href="https://www.facebook.com/ABC">https://www.facebook.com/ABC</a>	9/15/2018	12:00:00 AM	Video showing flooded home and garage
187	34	<a href="https://twitter.com/DelawareEM">https://twitter.com/DelawareEM</a>	9/15/2018	7:20:00 AM	Delaware Emergency Management Agency is sending 42 firefighters to North Carolina this morning to assist with Hurricane Florence. The team will deploy through the Emergency Management Assistance Compact (EMAC)
188	30	<a href="https://twitter.com/DaveFoxSDC">https://twitter.com/DaveFoxSDC</a>	9/15/2018	5:59:00 PM	Downtown Jacksonville North Carolina damage to a building's brick façade. Hurricane Florence leaves her mark in the street
189	33	<a href="https://twitter.com/bxtf1/status/1">https://twitter.com/bxtf1/status/1</a>	9/15/2018	6:25:00 PM	Members of Texas Task Force 1 (TX-TF1), sponsored by the Texas A&M Engineering Extension Service, that have been deployed as a part of the FEMA US&R response to Major Hurricane Florence on the East Coast
190	33	<a href="https://twitter.com/Jay_USMC2/">https://twitter.com/Jay_USMC2/</a>	9/15/2018	6:39:00 PM	People in areas affected by Hurricane Florence, which was downgraded to a tropical storm, have been cautioned to look out for venomous snakes lurking in storm's floodwaters.
191	34	<a href="https://twitter.com/USMC/status">https://twitter.com/USMC/status</a>	9/15/2018	6:54:00 PM	Marines with Combat Logistics Battalion 8 helped evacuate civilians to a new shelter following Hurricane Florence in Swansboro, N.C (U.S. Marine Corps photos by Lance Cpl. Leticia Salaiz)
192	34	<a href="https://twitter.com/nypost/status">https://twitter.com/nypost/status</a>	9/15/2018	6:59:00 PM	Kitten named "Survivor" rescued with owner from Hurricane Florence
193	32	<a href="https://www.facebook.com/Now">https://www.facebook.com/Now</a>	9/15/2018	7:05:00 PM	Hurricane Florence, which left a total of at least 11 people dead
194	29	<a href="https://twitter.com/ByAdamWag">https://twitter.com/ByAdamWag</a>	9/15/2018	7:06:00 PM	Duke Energy: Rains from Hurricane Florence caused a slope to fail at one of Sutton Power Plant's coal ash landfills, causing about 2,000 yards to be displaced. Unclear how much stormwater may have come into contact with the coal ash and reached Sutton Lake
195	30	<a href="https://fb.watch/ZUsqgOo/">https://fb.watch/ZUsqgOo/</a>	9/15/2018	7:12:00 PM	Boiling Spring Lakes dam breach NC
196	34	<a href="https://twitter.com/ABC/status/1">https://twitter.com/ABC/status/1</a>	9/15/2018	7:17:00 PM	leaving thousands of homes and businesses empty, including an especially attractive target for looters: gun
197	34	<a href="https://twitter.com/MayorColvin/">https://twitter.com/MayorColvin/</a>	9/15/2018	7:27:00 PM	Below is a list of shelters that will be opening at 3 pm TODAY ( September 12, 2018 ) for Hurricane Florence
198	30	<a href="https://twitter.com/USA TODAY/">https://twitter.com/USA TODAY/</a>	9/15/2018	7:30:00 PM	flooding has cut off at least one town in eastern North Carolina
199	34	<a href="https://twitter.com/USACEHQ/s">https://twitter.com/USACEHQ/s</a>	9/15/2018	7:30:00 PM	USACE contractors install temporary power to a section of Cherry Hospital in Goldsboro, NC, today. The facility is currently housing and treating patients from other hospitals in the region that were evacuated due to Hurricane #Florence
200	38	<a href="https://twitter.com/NWEastern">https://twitter.com/NWEastern</a>	9/16/2018	3:33:00 PM	Coast Guard rescue swimmer searches vehicles for survivors in video
201	30	<a href="https://twitter.com/LiveStormsM">https://twitter.com/LiveStormsM</a>	9/16/2018	5:14:00 PM	A car was almost obliterated by a piece of metal from a roof during #Hurricane #Florence's landfall near #WilmingtonNC
202	32	<a href="https://twitter.com/CBSNews/st">https://twitter.com/CBSNews/st</a>	9/16/2018	6:14:00 PM	Hurricane Florence: At least 17 have died in storm-related incidents
203	34	<a href="https://twitter.com/nytimes/status">https://twitter.com/nytimes/status</a>	9/16/2018	6:15:00 PM	In one night, the all-volunteer Cajun Navy rescued 155 people and at least a couple of cats from homes in areas flooded by Hurricane Florence
204	34	<a href="https://twitter.com/USNavy/status">https://twitter.com/USNavy/status</a>	9/16/2018	6:20:00 PM	Sailors prepare aircraft for flight operations aboard USS Kearsarge #LHD3. The #USNavy Wasp-class amphibious assault ship is positioned to provide Defense Support to Civil Authorities if requested following Hurricane #Florence.
205	32	<a href="https://twitter.com/PBbreaking">https://twitter.com/PBbreaking</a>	9/16/2018	6:35:00 PM	Hurricane Florence death toll rises to 18. Aerial footage shows major flooding on North Carolina coastline
206	34	<a href="https://twitter.com/10NewsFirst/">https://twitter.com/10NewsFirst/</a>	9/16/2018	7:24:00 PM	Six dogs have been rescued from rising flood waters, after they were locked in a cage and abandoned by their owners during Hurricane Florence
207	28	<a href="https://twitter.com/NWSIrmado">https://twitter.com/NWSIrmado</a>	9/16/2018	10:59:00 PM	tornado watch until 9/17 5AM
208	28	<a href="https://twitter.com/B_Carp01/st">https://twitter.com/B_Carp01/st</a>	9/16/2018	11:22:00 PM	marks 95.5 hours of #tornado watches in place (when this watch expires) for North Carolina due to #Hurricane #Florence.
209	28	<a href="https://twitter.com/MikeTheiss/s">https://twitter.com/MikeTheiss/s</a>	9/18/2018	2:25:00 PM	H.E.R.V. Research Vehicle deployed on Wrightsville Beach, NC (09/14/18). Highest wind gust recorded in western eyewall of #Florence was 87mph and lowest barometric pressure recorded in eye at 7:25am was 957.6mb
210	30	<a href="https://www.facebook.com/phot">https://www.facebook.com/phot</a>	9/22/2018	6:26:00 PM	Photo of dead/beached fish on I40 where the water has receded in NC
211					
212					
213					

# Dorian 8/28-8/30

# Dorian 8/30-9/1

1	ICS209	citation_link	date	time	unique_fact
35		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	6:28:00 PM	Depending on the exact track of Hurricane Dorian, we have the potential to see direct impacts with regards to heavy rain, wind, and storm surge. However, immediate concerns are the increase risk for Rip Currents at the beaches beginning ton
36		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	6:53:00 PM	"Here's a look at Hurricane Dorian via 1-min GOES-16 infrared satellite imagery. Pretty amazing detail, wouldn't you say? The storm remains a dangerous category 4 storm with maximum sustained winds of 150 mph."
37		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:00:00 PM	The waves were getting larger on Elbow Cay in the northern Bahamas on Saturday. If Hurricane Dorian stays on its present course, Elbow Cay could be directly impacted by the storm on Sunday and Monday. Waves could reach heights of 20
38		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:13:00 PM	Hurricane Dorian: South Carolina declares state of emergency as storm shifts course
39		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:21:00 PM	Hurricane Dorian slowed its forward progress Saturday, but increased its sustained wind speed, nearing Category 5 force
40		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:30:00 PM	Florida urged to plan for 7 days without power as Hurricane Dorian approaches
41		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:30:00 PM	Hurricane #Dorian remains a powerful Cat. 4 storm as it moves toward the Bahamas, where Hurricane Warnings are in effect. A Tropical Storm Watch has been issued for Deerfield Beach to Sebastian Inlet in Florida.
42		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:30:00 PM	picked up strength early Saturday and also changed direction - with the current track forecast to possibly make landfall in the Carolinas late Wednesday
43		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:32:00 PM	Storm surges from Hurricane Dorian are expected to exceed 15 feet in the Bahamas
44		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:36:00 PM	two Hurricane Hunter planes investigating #Dorian this evening. The second has found a similar central pressure (942.5mb) but significantly higher winds within the NW eyewall (>140kts). If the NHC deems these values reliable, Dorian would t
45		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:40:00 PM	Models have been shifting west this afternoon and now several either make landfall or come close to making a Florida landfall. This model (HWRF) jumped around 150 miles from its previous run to show major hurricane #Dorian making landfa
46		<a href="https://twitter.com">https://twitter.com</a>	8/31/2019	7:40:00 PM	model (HWRF) jumped around 150 miles from its previous run to show major hurricane #Dorian making landfall on Tuesday evening near Cape Canaveral.
47		<a href="https://fb.watch/l-e">https://fb.watch/l-e</a>	9/1/2019	8:19:00 AM	Hurricane Dorian has finally strengthened to a Cat. 5 Hurricane as it approaches the Abaco Islands. This will be devastating for parts of the Bahamas w/ life-threatening storm surge, destructive winds & likely flash flooding
48		<a href="https://twitter.com">https://twitter.com</a>	9/1/2019	11:05:00 AM	#DYK we have a Super Sentinel we use to respond to disasters and emergencies? Its headed east for a potential Hurricane #Dorian response. We will use it to set up a command post if we're requested to help the response effort.
49		<a href="https://abcnews.go">https://abcnews.go</a>	9/1/2019	11:20:00 AM	Multiple cabinet secretaries are briefed by FEMA acting director
50		<a href="https://abcnews.go">https://abcnews.go</a>	9/1/2019	11:20:00 AM	"We have 3,000 people already deployed across the federal government agencies for this storm," he said.
51		<a href="https://nypost.com">https://nypost.com</a>	9/1/2019	12:11:00 PM	Acting FEMA Director Pete Gaynor said Sunday that his agency is still short 2,000 reservists, but said it shouldn't impact the government's ability to handle Hurricane Dorian, which was upgraded to a Category 5 storm early Sunday.
52		<a href="https://twitter.com">https://twitter.com</a>	9/1/2019	2:06:00 PM	The eye of #Dorian has made a second landfall at 2 pm EDT (1800 UTC) on Great Abaco Island near Marsh Harbour. Maximum sustained winds were 185 mph at the time. This is tied for the strongest Atlantic hurricane landfall on record with
53		<a href="https://www.foxne">https://www.foxne</a>	9/1/2019	2:08:00 PM	The storm made the first landfall at 12:40 p.m. in Elbow Cay and is located about 185 miles east of West Palm Beach, Florida.
54		<a href="https://www.foxne">https://www.foxne</a>	9/1/2019	2:08:00 PM	Wind gusts of over 220 mph and a storm surge of 18 to 23 feet above normal tide levels with higher "destructive waves" are forecast to continue for several hours over the affected areas. T
55		<a href="https://www.foxne">https://www.foxne</a>	9/1/2019	2:08:00 PM	Government spokesman Kevin Harris said Sunday that Dorian is expected to impact some 73,000 residents and 21,000 homes
56		<a href="https://www.foxne">https://www.foxne</a>	9/1/2019	2:08:00 PM	Officials in the Bahamas said Sunday that dozens of people were ignoring evacuation orders, and they were warned that they were placing their lives in danger.
57		<a href="https://www.foxne">https://www.foxne</a>	9/1/2019	2:08:00 PM	Between 12 to 24 inches of rain is forecast for the northwestern Bahamas, with isolated amounts up to 30 inches, according to the NHC. Dorian is also forecast to bring a life-threatening storm surge with water levels raised as much as 15 to 20
58		<a href="https://fb.watch/l-e">https://fb.watch/l-e</a>	9/1/2019	4:13:00 PM	March Harbour is destroyed from Hurricane Dorian. They have another round to go because this was filmed during the eye of the storm
59		<a href="https://fb.watch/l-e">https://fb.watch/l-e</a>	9/1/2019	6:16:00 PM	READY TO HELP: Hundreds of utility trucks from 34 states are now in Florida to help restore power in preparation for Hurricane Dorian
60		<a href="https://twitter.com">https://twitter.com</a>	9/1/2019	7:30:00 PM	"I've been working on a show out in the Bahamas, and they are being just ravaged by Hurricane Dorian. I don't think there is a lot of coverage in the local media of the damage that is happening here, because we will mainly here about Florida.
61		<a href="https://twitter.com">https://twitter.com</a>	9/1/2019	7:32:00 PM	UPDATE: NOAA's #GOES16 watches the sun set on Cat. 5 #HurricaneDorian, as it slammed into Great Abaco today. With wind gusts more than 220 mph & storm surge 18 to 23 feet above normal, @NHC_Atlantic says #Dorian's western eye
62		<a href="https://twitter.com">https://twitter.com</a>	9/1/2019	7:39:00 PM	KTSM's Satellite is showing, Hurricane Dorian's 'Eye' made landfall on Marsh Harbour around 10 a.m. taking more than 7 hours to move through. Next hit for the eye, Freeport. Dorian its self is 65 miles away from Florida.
63		<a href="https://twitter.com">https://twitter.com</a>	9/1/2019	7:58:00 PM	8 UPDATE: Hurricane Dorian maintains same max wind speed of 185 MPH. Still moving west at 5 MPH. NHC forecasts move west to west-northwest will occur over next 1-2 days. After that, a turn northwest is expected. Here's a satellite
64		<a href="https://www.facebook.com">https://www.facebook.com</a>	9/1/2019	8:23:00 PM	Thanks to shelters and volunteers working together all across the east coast, hundreds of animals are being transported out of harm's way — just like these animals leaving Charleston Animal Society to rescues further north or inland
65		<a href="https://www.washin">https://www.washin</a>	9/1/2019	11:20:00 PM	The hurricane warning stretches from Jupiter Inlet (just north of West Palm Beach) to the Volusia/Brevard county line (just north of Titusville).
66		<a href="https://www.washin">https://www.washin</a>	9/1/2019	11:20:00 PM	In addition to the wind and surge, about to three to six inches of rain is projected along Florida's east coast.
67		<a href="https://www.washin">https://www.washin</a>	9/1/2019	11:20:00 PM	As of 11 p.m., the storm was 55 miles east of Freeport on Grand Bahama Island and was crawling west at 5 mph. The storm's peak winds were 180 mph, and Dorian has maintained Category 4 and now Category 5 intensity for an unusually lon
68		<a href="https://www.washin">https://www.washin</a>	9/1/2019	11:20:00 PM	Because the storm is predicted to be a slow mover, effects from wind, rain and storm surge could be prolonged, lingering through the middle of next week on Florida's east coast.
69		<a href="https://www.washin">https://www.washin</a>	9/1/2019	11:20:00 PM	The storm's peak sustained winds rank as the strongest so far north in the Atlantic Ocean east of Florida on record. Its pressure, which bottomed out at 910 millibars, is significantly lower than Hurricane Andrew's when it made landfall in south

# Dorian 9/2-9/3

1	ICS209	citation_link	date	time	unique_fact
70	38	<a href="https://fb.watch/i-S">https://fb.watch/i-S</a>	9/2/2019	8:15:00 AM	A mayor in Florida gives a rallying cry as Hurricane Dorian is expected to creep towards the US state later today. The storm is the strongest anywhere on the planet this year
71	38	<a href="https://arstechnica">https://arstechnica</a>	9/2/2019	9:15:00 AM	Another significant problem is that high pressure to the north of Dorian has weakened during the last 24 hours, causing the storm's steering currents to collapse.
72	40	<a href="https://arstechnica">https://arstechnica</a>	9/2/2019	9:15:00 AM	Such a track would be similar to Hurricane Matthew in 2016, with similar or worse damages depending on Dorian's track. Matthew caused an estimated \$10 billion in damage to the United States, along with 34 direct fatalities, according to the National Hurricane Center.
73	36	<a href="https://arstechnica">https://arstechnica</a>	9/2/2019	9:15:00 AM	Dorian's center could approach or briefly make landfall in Georgia or the Carolinas.
74	35	<a href="https://www.facebook">https://www.facebook</a>	9/2/2019	1:30:00 PM	All vehicles are fully underwater at the Police Headquarters in Freeport, Grand Bahama
75	35	<a href="https://fb.watch/i-a">https://fb.watch/i-a</a>	9/2/2019	1:47:00 PM	"That's my kitchen window that water is hitting, and that has to be a minimum of about 20 feet above the ground." Bahamas Minister for Agriculture Michael Pintard describes flooding from Hurricane Dorian at his house in Grand Bahama
76	32	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	He said that at least 21 people have been injured and taken to hospitals and that the images and videos seen by officials are heartbreaking, with many homes and businesses and other buildings completely or partially destroyed.
77	40	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	Dorian on Monday was called the strongest hurricane in modern records for the northwestern Bahamas
78	28	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	More than 70 nursing homes and assisted living facilities have evacuated along Florida's east coast. Many of the state's toll roads are suspended, and several ports have closed. In addition, more than 85 shelters are open statewide.
79	28	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	Six counties east of Interstate 95 in Georgia were ordered to evacuate, Gov. Brian Kemp says.
80	28	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	Millions of people along the southeastern coast of the United States are bracing for Dorian's effects over the next few days as meteorologists warn the storm, which was stationary late Monday will eventually veer north off the coast of Florida.
81	28	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	President Donald Trump has approved emergency declarations for Florida, South Carolina and Georgia.
82	28	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	Virginia Gov. The governors of North Carolina and Virginia have also declared states of emergency.
83	34	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	Information began emerging from the affected islands, with Bahamas Power and Light saying there is a total blackout in New Providence, the archipelago's most populous island, according to the AP.
84	28	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	On Sunday, the governors of South Carolina and Georgia ordered at least 1 million people to evacuate their coasts beginning Monday
85	28	<a href="https://www.nbcne">https://www.nbcne</a>	9/2/2019	5:27:00 PM	Authorities in Florida ordered mandatory evacuations in some vulnerable coastal areas.
86	40	<a href="https://twitter.com">https://twitter.com</a>	9/2/2019	7:38:00 PM	Chella Philips of Nassau, Bahamas brought 97 stray dogs to her home to protect them during Hurricane Dorian. She manages The Voiceless Dogs of Nassau, a group that works to pair local dogs with rescue and adoption organizations in the Bahamas.
87	33	<a href="https://twitter.com">https://twitter.com</a>	9/2/2019	7:42:00 PM	Legoland Florida will be closed on Tuesday due to Dorian. "Our thoughts and prayers are with those impacted by Hurricane Dorian. The safety of our employees and guests is our number one priority," the company said. <a href="https://cnn.it/2zLs">https://cnn.it/2zLs</a>
88	36	<a href="https://twitter.com">https://twitter.com</a>	9/2/2019	7:52:00 PM	#UPDATE: 8PM ADVISORY: DORIAN NOT MOVING: Hurricane Dorian still remains stationary over Grand Bahama - remains 25 miles NE of Freeport; Dorian's winds weakened to 140 MPH but remains a very dangerous CAT 4 system;
89	36	<a href="https://twitter.com">https://twitter.com</a>	9/2/2019	7:52:00 PM	Hurricane Dorian has stalled over the Bahamas. Current track still brings dangerous rain, storm surges, and wind to the Florida, Georgia, and Carolina coastlines as the storm hugs the coast. Most models have the eye of the storm staying over the Bahamas.
90	38	<a href="https://www.cnn.ci">https://www.cnn.ci</a>	9/2/2019	11:38:00 PM	The Category 2 storm, with winds of 110 mph, was lashing central Florida's east coast Tuesday night, the National Hurricane Center said.
91	32	<a href="https://www.cnn.ci">https://www.cnn.ci</a>	9/2/2019	11:38:00 PM	The storm's death toll, which officials fear will rise sharply, stands at seven people, according to Prime Minister Hubert Minnis.
92	30	<a href="https://www.cnn.ci">https://www.cnn.ci</a>	9/2/2019	11:38:00 PM	The Prime Minister told reporters after returning from an aerial tour of Great Abaco that he estimated there was damage to 60% of the homes there. According to a 2010 census, 17,224 people lived on the Abacos and there were about 50,000 homes.
93	31	<a href="https://www.cnn.ci">https://www.cnn.ci</a>	9/2/2019	11:38:00 PM	Fortunately, New Providence Island and the capital of Nassau, which generate much of the Bahamas tourist revenue, had not been touched, the Prime Minister said.
94	28	<a href="https://fb.watch/i-c">https://fb.watch/i-c</a>	9/3/2019	10:37:00 AM	Freeport, Gran Bahama. Dorian moved on top of GB and slowed down to a near crawl. Sustained winds of over 160 MPH but yet the storm is only moving at 1MPH
95	34	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	2:36:00 PM	Overnight, over 12.2K people stayed in #RedCross evacuation shelters across Florida, Georgia & South Carolina as #HurricaneDorian nears
96	34	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:09:00 PM	Barton College will begin closing in preparation for Hurricane Dorian beginning Wednesday afternoon, Sept. 4
97	35	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:10:00 PM	Hurricane Dorian is on the move, growing in size as it tracks north just off the east coast of Florida, already hammering Florida with tropical storm-force winds and kicking up massive waves
98	34	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:13:00 PM	Over 100 pets flown into Delaware to escape Hurricane #Dorian
99	34	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:16:00 PM	Maj. Gen. Scott Spellmon, USACE Deputy Commanding General for Civil and Emergency Operations, discusses preparedness efforts on Fox and Friends Sept. 3, 2019, as Hurricane #Dorian approaches the Florida coast. #USACE #HurricaneDorian
100	35	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:17:00 PM	Projected rainfall totals associated with #Hurricane #Dorian. 6-10 inches possible across coastal #NC
101	30	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:20:00 PM	Hurricane Dorian could hurt cotton, peanuts and other crops and livestock in the Carolinas
102	30	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:40:00 PM	An international airport on the Bahamas' northernmost island was submerged underwater following heavy rain from Hurricane Dorian
103	30	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:43:00 PM	United Airlines Nassau (NAS), Miami (MIA) and Fort Lauderdale-Hollywood (FLL) airports have resumed operations but are still experiencing delays and cancellations.
104	34	<a href="https://twitter.com">https://twitter.com</a>	9/3/2019	7:56:00 PM	ALERT: RESIDENTS IN EVACUATED ZONES MUST LEAVE NOW DUE TO THE INCREASING THREAT FROM HURRICANE DORIAN

# Dorian 9/4-9/5

1	ICS209	citation_link	date	time	unique_fact
105		34 <a href="https://fb.watch/i-b">https://fb.watch/i-b</a>	9/4/2019	2:11:00 PM	Our hospital has received over 100 hatchlings after Hurricane Dorian! If you find distressed or injured hatchlings please transport them in damp sand with no water to our 24-hour hatchling drop off cooler at the entrance
106		32 <a href="https://twitter.com">https://twitter.com</a>	9/4/2019	7:09:00 PM	Hurricane Dorian's death toll rises to 21 as it charges up the US Southeast coast; claiming the lives of at least 20 in the Bahamas, as well as an elderly man in North Carolina
107		36 <a href="https://twitter.com">https://twitter.com</a>	9/4/2019	7:20:00 PM	"Tonight, Dorian is lashing the coastline of Florida and Georgia -- top winds that have increased to 110 miles an hour; its center will approach South Carolina tonight, North Carolina tomorrow night, all with hurricane-force winds."
108		34 <a href="https://twitter.com">https://twitter.com</a>	9/4/2019	7:32:00 PM	These boxes are to be sent to the Bahamas, where many ECU students are from. Please feel free to help out with blankets, toiletries, non perishable foods, and clothing
109		36 <a href="https://twitter.com">https://twitter.com</a>	9/4/2019	7:32:00 PM	Florida gets the all clear! South Carolina and North Carolina are paying close attention. Dorian may weaken a bit tomorrow. We are tracking Hurricane Dorian
110		34 <a href="https://twitter.com">https://twitter.com</a>	9/4/2019	7:36:00 PM	Emergency personnel from Kitsap County are headed to the Bahamas to assist with medicare care, rescues and communications in the wake of Hurricane Dorian
111		36 <a href="https://twitter.com">https://twitter.com</a>	9/4/2019	7:38:00 PM	HURRICANE DORIAN has restrengthened a bit over the warm waters off southeastern GA with max sustained winds up to 110 mph! Forecast track has Dorian very close to the northeast coast of SC Thursday before passing near the NC Outer Banks
112		28 <a href="https://twitter.com">https://twitter.com</a>	9/4/2019	7:59:00 PM	8pm Wednesday Hurricane Dorian UPDATE. Winds remain 110 mph, and is moving NNW at 8mph. The storm is now 130 miles south of Charleston
113		28 <a href="https://twitter.com">https://twitter.com</a>	9/5/2019	4:19:00 PM	"The weather for #Hometown 9/2/2019 at 12:55pm is sunny skies with intermittent thin low cirrus, winds calm, pressure is 911.2mb #HurricaneDorian"
114		34 <a href="https://twitter.com">https://twitter.com</a>	9/5/2019	7:29:00 PM	"US Coast Guard crews have rescued 201 people in the Bahamas since Hurricane Dorian began, according to a news release <a href="https://cnn.it/32uJnJd">https://cnn.it/32uJnJd</a> "
115		38 <a href="https://twitter.com">https://twitter.com</a>	9/5/2019	7:32:00 PM	"SOLD OUT: This gas station in Elizabeth City, NC is out of fuel. The store clerk said they usually sell around 1,500 gallons of fuel a day but as people prepare for Hurricane Dorian, they've sold close to 4,000 gallons a day. Zone A is under mandatory evacuation"
116		30 <a href="https://twitter.com">https://twitter.com</a>	9/5/2019	7:38:00 PM	"Storm chaser Brandon Clement says he was one of the first to fly over and see the devastation Hurricane Dorian caused in the Bahamas. "I've even seen some homes that... [had] 8- to 10-inch concrete reinforced with steel, just completely destroyed."
117		34 <a href="https://twitter.com">https://twitter.com</a>	9/5/2019	7:43:00 PM	MI Task Force 1 has finished their deployment to Florida, and are now heading to North Carolina to assist with the Hurricane Dorian response
118		38 <a href="https://twitter.com">https://twitter.com</a>	9/5/2019	7:43:00 PM	UF & @weatherflow are nearly 2 miles from my Kure Beach, NC location w/an anemometer that is gusting over 65mph. Center of Dorian about 50 miles to my southeast w/hurricane gusts about 30 miles
119		31 <a href="https://fb.watch/i-S">https://fb.watch/i-S</a>	9/6/2019	4:12:00 PM	People in the Bahamas say they're scouring for basic supplies after Hurricane Dorian
120		34 <a href="https://fb.watch/i-S">https://fb.watch/i-S</a>	9/6/2019	6:13:00 PM	PETA's Emergency Rescue team wasted NO time leaping into action after receiving a report of a pelican who was unable to fly and stranded on a bridge in the middle of Hurricane Dorian. Four more wind-battered birds were found and all were taken to safety.
121		34 <a href="https://twitter.com">https://twitter.com</a>	9/6/2019	7:12:00 PM	Crews are gathering from across Nova Scotia, New Brunswick, Ontario and Quebec as we prepare for Hurricane #Dorian.
122		34 <a href="https://twitter.com">https://twitter.com</a>	9/6/2019	7:16:00 PM	A Canadian Hurricane Dorian Relief Mission Aircraft has arrived at LPIA
123		30 <a href="https://twitter.com">https://twitter.com</a>	9/6/2019	7:21:00 PM	Hurricane Dorian flooded streets in Virginia Beach
124		30 <a href="https://twitter.com">https://twitter.com</a>	9/6/2019	7:36:00 PM	Hurricane #Dorian's storm surge washed over Pawley Island Thursday. The process of removing the sand is underway. Drone video via Robbie Bischoff
125		34 <a href="https://fb.watch/i-e">https://fb.watch/i-e</a>	9/7/2019	3:03:00 PM	More than a thousand Bahamians evacuated by the Grand Celebration cruise ship arrived in Palm beach, Florida, after it dropped more than 112 tons of supplies in Freeport, Grand Bahama in the wake of Hurricane Dorian's catastrophic damage
126		30 <a href="https://fb.watch/i-e">https://fb.watch/i-e</a>	9/9/2019	9:30:00 AM	"I have no words to say how bad... maybe 1 in 10 house is standing," says one resident working to organize relief aid for victims
127		30 <a href="https://fb.watch/i-b">https://fb.watch/i-b</a>	9/9/2019	11:45:00 AM	Hurricane Dorian has left nearly 70,000 Bahamians homeless and hundreds more are desperately looking for a way out. Over the weekend, as evacuations continue, dozens of Bahamians were told to get off a ferry headed to the US
128					

04

# Our Findings



# How much variation exists in the types of information different online spaces provide during crises?

Twitter has the fastest time to post but small artifacts of information

Facebook has longer posts and more emotional investment

News sources have the most detailed information but are more delayed than social media



# How does the density of useful information change over the course of the disaster?

More information leading up to when hurricanes make landfall

Significantly less information after landfall

Project incident activity and life, safety and health threat management details were highest ICS



# What info was missing

Information about initial formation of hurricane  
(a.k.a. Meteorological history)

Looked at U.S. centric social media

See immediate damages but nothing outside of visible property damage





## Conclusion

Analyzing unique facts as data points from social media was a new experience for one of us. We learned a lot about the specific timeline of each hurricane off of social media - including data points that are sometimes left out of news reports or summary pages such as Wikipedia. In conclusion this project opened our eyes to the value of social media for information distribution during times of crisis.

# Constraints



## Types of information

We collected as much information on the Internet as we could find, proportional to the popularity on Google Trends.

We did not find unique facts.



## Manual collection

Our collection was done through search terms on different platforms and might not capture the entire information present for the hurricanes

# Thanks!

