

Supplement 2. List of notable tropical storms (sources: coast.noaa.gov/hurricanes; maps from www.nhc.noaa.gov/data/tracks/).

Storm name	Date of storm or landfall	Landfall	Category	Notes
Bertha	7/15/2008	NONE	TS	H2 and H1 off FL coast app. 900 miles offshore, downgraded to TS off GA, SC, NC with closest approach app. 600 miles offshore NC
Cristobal	7/21/2008	NONE	TS	tracked closely along SC, NC coast then moved more and more offshore to the north
Fay	8/19/2008	FL	TS	directly over KW, FL
Hanna	9/6/2008	SC/NC border	TS	
Ike	9/8/2008	NONE	H1	tracked south of KW, FL
Kyle	9/27/2008	NONE	H1	tracked north along US coast reaching H1 off GA and remaining an H1 to north; closest approach app. 300 miles off NC
Paloma	11/10/2008	NONE	TD	stayed south of FL
One 2009	5/28/2009	NONE	TS	closest approach 300 miles of NC
Bill	8/22/2009	NONE	H2	H3 off FL; H2 off GA, SC, NC (closest approach app. 300 miles); H1 rest of coast to the north
Danny	8/27/2009	NONE	TS	FL, GA, closest app. 250 miles
Bonnie	7/23/2010	FL	TS	southern tip of FL
Earl	9/3/2010	NONE	H2	tracked along entire US east coast starting as a H4 in FL and progressively decreasing in strength, H3 off GA, H2 off SC and NC, H1 off VA and MD, TS off NJ, closest approach NC app. 100 mi offshore
Igor	9/20/2010	NONE	H1	tracked along entire US east coast as H1, closest approach app. 550 miles off NC
Nicole	9/29/2010	NONE	TS	southern FL
Paula	10/15/2010	NONE	TS	south of KW FL, did not come north of Cuba
Tomas	11/6/2010	NONE	H1	closest approach 500 miles off south FL coast, downgraded to TS and became an ET near south FL
Brett	7/17/2011	NONE	TD	unusual track to south along FL coast reaching TS
Emily	8/6/2011	NONE	TD	only impact to FL, upgraded to a TS for a short period off the FL coast
Irene	8/27/2011	NC	H1	H2 along FL coast, downgraded to H1 along GA, SC, NC, VA, MD coasts, TS off NJ

Unnamed	9/2/2011	NONE	TS	app. 300 miles offshore of New England
Katia	9/8/2011	NONE	H1	tracked entire coast, closest approach app. 300 miles off US est coast
Maria	9/15/2011	NONE	H1	tracked entire coast, closest approach app. 500 miles off US est coast
Ophelia	10/2/2011	NONE	H3	tracked entire coast as a hurricane reaching H4 off SC and mostly H3 for rest of coast; closest approach app. 600 miles offshore
Sean	11/11/2011	NONE	TS	closest approach app. 600 miles offshore, changed to ET off VA coast
Alberto	5/20/2012	NONE	TS	came to N FL then tracked along the SC coast
Beryl	5/28/2012	FL/GA	TS	landfall north FL then turned and tracked up the GA, SC, NC coast as a TS
Debby	6/27/2012	NONE	TD	landfall as TS west FL moved across FL and went offshore as TD
Isaac	8/27/2012	NONE	TS	KW, FL only
Leslie	9/10/2012	NONE	H1	tracked north along east coast fairly far offshore, intensified from TS to H1 at VA/NC border
Rafael	10/16/2012	NONE	H1	far offshore: 800 miles
Sandy	10/28/2012	NJ	H1	tracked north along east coast as H1, changed to an extratropical storm off NJ
Andrea	6/8/2013	NONE	TS	landfall west FL tracked US east coast coming closest in GA and moving offshore at VA all the way up the coast
Dorian	8/2/2013	NONE	TS	got very close to south FL, fizzled out at SC/NC border
Arthur	7/4/2014	NC	H2	tracked along entire US east coast as TS, then H1, then H2 at landfall, then back to H1 off VA and northward, back to TS off MA
Cristobal	8/27/2014	NONE	H1	stayed offshore but tracked the east coast
Anna	5/10/2015	SC/NC border	TS	early storm, landfall in SC/NC went inland then back offshore at VA as TS
Claudette	7/12/2015	NONE	TD	originated off NC coast as TD then moved offshore
Joaquin	10/3/2015	NONE	H2	a lot of changing off coast of FL but mostly hurricane status staying off US coast
Kate	11/10/2015	NONE	TS	tracked off FL coast as TS, then intensified to H1 off NC coast
Bonnie	5/29/2016	SC	TD	landfall at SC then tracked offshore and made landfall again in NC as TD
Colin	6/7/2016	NONE	TS	landfall at SC then tracked offshore and made landfall again in NC as TD
Eight 2016	8/31/2016	NONE	TD	approached NC then turned offshore

Hermine	9/3/2016	NONE	TS	made landfall in west FL, tracked across SE US and came offshore as TS in NC, came close again off Long Island
Julia	9/14/2016	FL	TS	strange path, 2 landfalls - one in FL one in NC
Matthew	10/7/2016	SC	H2	tracked along FL coast as H4 and H3, weakened to H2 off GA, H1 landfall in SC and went back along coast as H1 and TS
Emily	8/1/2017	NONE	TD	offshore moving track off FL
Gert	8/15/2017	NONE	H1	storm track US east coast, TS in FL, intensifying to H1 and H2 to north
Unnamed 2017	8/29/2017	NC	TS	tracked coast from GA to NC as TS
Irma	9/10/2017	KW, FL	H4	directly over Key West, landfall SW FL
Jose	9/17/2017	NONE	H1	tracked north along US east coast as H1, then downgrading to TS at VA/NC border
Maria	9/27/2017	NONE	H1	approached FL as H3, downgraded to H2 offshore FL, then H1 from GA to VA at closest approach, then offshore as TS
Beryl	7/13/2018	NONE	TS	offshore track, varied from TD to TS
Chris	7/8/2018	NONE	H1	offshore track, stalled, intensified from a TS to H2 and turned right off NC and followed the coast offshore
Gordon	9/3/2018	FL	TS	
Florence	9/14/2018	NC/SC border	H2	H1 at landfall
Michael	10/12/2018	NONE	TS	landfall in Gulf of Mexico, offshore moving track off VA
Erin	8/28/2019	NONE	TS	offshore track, varied from TD to TS, off coast of NC and VA
Dorian	9/6/2019	NC	H2	tracked entire US east coast from 9/2-9/7, skirted OBX 9/6 as H2 but fluctuated from H2 to H4
Humberto	9/16/2019	NONE	H2	offshore moving track, closest near FL than intensifying to H3 off NC coast
Melissa	10/11/2019	NONE	TS	offshore moving track starting in NC, stalling off DELMARVA coast before continuing
Nestor	10/21/2019	VA	ET?	offshore moving track, classified as ET but winds app. 40 kt
Bertha	5/27/2020	SC	TS	
Fay	7/10/2020	NC, VA, DE, NJ	TS	offshore track at SC, then intensified and tracked north from NC to NJ
Isaias	8/3/2020	SC/NC	H1	TS along FL coast intensifying to H1 land fall SC/NC border

Omar	8/30/2020	NONE	TD	started as TD off FL coast, tracked along NC as a TD intensifying to TS
Sally	9/12/2020	FL	TD	
Eta	11/8/2020	KW, FL	TS	TS along south FL coast intensifying to H1 land fall west coast FL, then offshore track as TS at FL-GA border
Danny	6/28/2021	SC	TS	
Elsa	7/6/2021	KW, FL	TS	
Fred	8/14/2021	KW, FL	TD	
Henri	8/22/2021	Montauk Pt, NY	TS	
Ida	8/28/2021	KW, FL	H1	
Mindy	9/9/2021	GA	TD	offshore moving track
Alex	6/4/2022	west FL, then east FL	TS	offshore moving track
Colin	7/2/2022	SC	TS	
Ian	9/28/2022	west FL, then east FL and SC	H4	offshore moving track
Nicole	11/10/2022	east FL	H1	