The 1969 Atlantic hurricane season was the busiest Atlantic hurricane season since 1933 . The hurricane season officially began on June 1 , and lasted until November 30 . The season had the highest number of systems reach hurricane status ? twelve ? in a single season , until that record was surpassed in 2005 . Activity began with a series of five tropical depressions , the first of which developed on May 29 . The third system in that series , Tropical Depression Seven , caused extensive flooding in Cuba and Jamaica in early June . The final in the series formed on July 25 , the same day that Tropical Storm Anna developed . Neither the former nor latter caused significant impact on land . Later in the season , Tropical Depression Twenty @-@ Nine caused severe local flooding in the Florida Panhandle and southwestern Georgia in September . Hurricane Blanche was a small and short @-@ lived tropical cyclone in mid @-@ August that resulted in minimal effects .

The most significant storm of the season was Hurricane Camille , which peaked as a Category 5 hurricane on August 17 and devastated the Gulf Coast of the United States upon striking Mississippi the next day . Strong winds and storm surge heights especially impacted Mississippi and Louisiana . Later in its duration , the storm caused severe flooding Virginia and West Virginia . Camille alone was responsible for 259 deaths and \$ 1 @ .@ 4 billion . All damage figures are in 1969 USD , unless otherwise noted . It was the costliest United States hurricane at the time , until Hurricane Agnes in 1972 . In early September , Hurricane Francelia caused deadly floods in Central America , with 271 people killed in Central America . Hurricane Inga had the third longest duration of an Atlantic tropical cyclone . The last storm , Hurricane Martha , was the only known tropical cyclone to make landfall in Panama . Martha caused minor flooding in the former and Costa Rica . Overall , the systems of the season collectively caused 535 deaths and over \$ 1 @ .@ 49 billion in losses .

= = Season summary = =

The 1969 Atlantic hurricane season officially began on June 1 . Of the twenty @-@ four tropical cyclones that developed in the North Atlantic Ocean in 1969 , eighteen of them intensified into tropical storms ; this was above the 1950 ? 2000 average of 9 @.@ 6 named storms . In terms of tropical storms , it was the busiest season since 1933 . Twelve of the eighteen named storms reached hurricane status , a record that stood until there were fifteen named storms in 2005 . Five of the hurricanes deepened into major hurricanes , which are Category 3 or higher on the Saffir ? Simpson hurricane wind scale . Between 1950 and 2000 , there was an average of 2 @.@ 3 major hurricanes per season . Throughout the season , the U.S. Weather Bureau issued more advisories than in any previous season . Additionally , reconnaissance aircraft were utilized for more flight hours than in any year in the Atlantic basin until that point . The season officially ended on November 30 .

Hurricane Camille made landfall in Mississippi on August 18 as a Category 5 hurricane, becoming one of only three tropical cyclones to strike the United States as a Category 5, other than the Labor Day hurricane in 1935 and Hurricane Andrew in 1992. Project Stormfury had some of its most successful seeding experiments on Hurricane Debbie, which declined in wind speed by 31 % on the first day and by 18 % of the following day. With a duration of almost 25 days from September 20 to October 15, Hurricane Inga is the third longest @-@ lasting tropical cyclone in the Atlantic, behind only the San Ciriaco hurricane of 1899 and Hurricane Ginger in 1971. On November 24, Hurricane Martha became the first tropical cyclone on record to strike Panama.

The season was above average despite an El Niño , which typically suppresses tropical cyclogenesis in the Atlantic Ocean while increasing activity in the eastern Pacific Ocean . The Atlantic upper tropospheric shear line , a semi @-@ permanent feature that extended southeastward into the Caribbean Sea , which enhances outflow from disturbances , remained persistent throughout the season . However , the opposite periphery of the shear line inhibits the divergent outflow of a disturbance . This may have increased the number of tropical cyclones developing , while causing other storms to remain weak or dissipating over the deep tropics . Additionally , an abnormally strong mid @-@ tropospheric ridge replaced the further south than

normal westerlies that deterred tropical cyclone formation in 1968. Five hurricanes and two tropical storms made landfall, causing 535 deaths and \$1 @.@ 49 billion in damage; Tropical Depression Twenty @-@ Nine also resulted in damage.

Tropical cyclogenesis began early , with two tropical depressions forming on May 29 . Neither intensified into a named storm . In June , two additional tropical depressions developed , both of which failed to reach tropical storm intensity . Activity briefly went dormant between June 15 and July 25 , when the next depression originated . That same day , the season 's first named storm , Anna , developed over the eastern Atlantic . There were five tropical cyclones that formed in the month of August ? Blanche , Camille , Debbie , Eve , and Francelia . Camille was the most intense tropical cyclone of the season , peaking as a Category 5 hurricane with maximum sustained winds of 175 mph ($280\ km\ /\ h$) and a minimum barometric pressure of 900 mbar ($27\ inHg$) .

September was the most active month of the season , with six tropical cyclones , five of which intensified into a tropical storm ? Gerda , Holly , Inga , and an unnamed hurricane . Of the five named storms that originated in October , three intensified into hurricanes , including Kara , Laurie , and an unnamed storm . This was well above the currently used 1981 ? 2010 average of two tropical storms in one hurricane in the month of October . Although an unnamed hurricane existed into November , Martha was the only tropical cyclone to originate in that month . Martha , the last storm of the season , dissipated over Panama on November 25 .

The season 's activity was reflected with an accumulated cyclone energy (ACE) rating of 166 . ACE is , broadly speaking , a measure of the power of the hurricane multiplied by the length of time it existed , so storms that last a long time , as well as particularly strong hurricanes , have high ACEs . It is only calculated for full advisories on tropical systems at or exceeding 39 mph ($63\ km\ /\ h$) , which is tropical storm strength .

= = Storms = =

= = = Tropical Depression Seven = = =

Tropical Depression Seven developed near the Yucatan Peninsula on June 7 . It moved north , reaching western Cuba by the following day . As the depression moved towards Florida , small @-@ craft warnings were issued for the southern coast . The depression made landfall in Florida on June 9 and dissipated shortly thereafter . As a result of 2 to 3 in (51 to 76 mm) rain in Cuba , Radio Havana warned of a flash flood and later reported that three rivers were overflowing in Camagüey . Flooding also forced 1 @,@ 801 people from their homes . Sustained winds of 15 to 25 mph (24 to 40 km / h) and gusts up to 40 mph (64 km / h) were observed on the island . Impact from the depression in Florida is unknown .

Damage was catastrophic in Jamaica with landslides , flooding , broken communication lines , cancellation of its railway service and evacuation of hundreds of people from their homes . The Jamaica Railway Corporation 's trains were disrupted by landslides blocking the tracks from Spanish Town to Port Antonio and floodwaters inundating a bridge in Gregory Park . A train bound for Kingston was disrupted by the flooded bridge , as was a diesel tram , isolating both trains at Richmond . Furthermore , the former train did not reach its destination due to landslides . The Jamaica Telephone Company reported troubles due to waterlogged telephone lines . Schools and colleges in Kingston suspended classes and motorists in the area had difficulty traveling due to flooded roads . Correspondents from The Gleaner reported heavy rains , which inundated roads , washed away livestock and destroyed crops . On June 9 , the Church Welfare Organization of the West Indies Junior Seventh Day Adventists set out food , money and blankets the victims .

= = = Tropical Storm Anna = = =

On July 23, a tropical wave emerged into the Atlantic from the west coast of Africa. By 0600 UTC on July 25, the system developed into Tropical Depression Twelve. Initially, the depression

strengthened slowly while moving west @-@ northwestward . Eventually , it was upgraded to Tropical Storm Anna on July 27 . Intensification continued during the next 66 hours . On July 29 , Anna peaked with maximum sustained winds of 70 mph (110 km / h) and a minimum barometric pressure of 1 @,@ 002 mbar (29 @.@ 6 inHg) . Thereafter , the storm began to weaken and moved in a more northwesterly direction . Late on July 31 , Anna was downgraded to a tropical depression , while situated north of the Lesser Antilles .

Anna briefly re @-@ strengthened into a tropical storm late on August 1 . The storm re @-@ curved northeastward on July 2 and remained offshore of the East Coast of the United States . Ana once again reached tropical storm status by early on July 3 . Further intensification occurred , with the storm reaching winds of 65 mph (100 km / h) later that day . However , Anna transitioned into an extratropical cyclone after merging with an extratropical low pressure area at 0000 UTC on August 4 , while centered near Sable Island . The remnants continued rapidly east @-@ northeastward across the Atlantic until becoming unidentifiable on August 5 .

= = = Hurricane Blanche = = =

A tropical wave was initially tracked about 1 @,@ 300 mi (2 @,@ 100 km) east of the Lesser Antilles on August 6 . The system curved west @-@ northward on August 6 and eventually moved around the western periphery of the Bermuda high . Late on August 10 , a circulation developed and by 0000 UTC on August 11 , the system became a tropical depression while located about 530 mi (850 km) east of Wabasso Beach , Florida . Under the influence of a trough , it headed rapidly north to north @-@ northeastward . After ships reported winds up to 46 mph (74 km / h) , the depression was upgraded to Tropical Storm Blanche later on August 11 .

Significant intensification then occurred . Later on August 11 , Navy reconnaissance reports indicated that Blanche reached hurricane intensity . After winds peaked at 85 mph ($140\ km\ /\ h$) , the strong southwesterly current which Blanche was embedded in caused the storm to accelerate northeastward . On August 12 , the storm began losing tropical characteristics near Sable Island ; namely , the wind field was becoming asymmetrical . At Sable Island , a weather station reported sustained winds of 51 mph ($82\ km\ /\ h$) and gusts up to 69 mph ($111\ km\ /\ h$) . While passing to the south of Newfoundland , Blanche was absorbed by a frontal zone at 0000 UTC on August 13 .

= = = Hurricane Camille = = =

A tropical disturbance moved off the west coast of Africa on August 5 , and developed into Tropical Storm Camille near Grand Cayman on August 14 . The storm strengthened quickly and was a Category 3 hurricane when it struck near the western tip of Cuba on August 15 . The storm damaged 100 homes on Isla de la Juventud , while 20 @,@ 000 residents were left homeless on the mainland ; Five fatalities were also reported . Early on August 16 , Camille emerged into the Gulf of Mexico . Between August 16 and August 17 , the storm rapidly deepened , with a minimum barometric pressure of 905 mbar (26 @.@ 7 inHg) . Later on August 17 , Camille peaked as a 175 mph (280 km / h) Category 5 . It likely maintained this intensity until landfall near Bay St. Louis , Mississippi early on August 18 ; Camille was one of only three tropical cyclones to strike the United States as a Category 5 , the others were the 1935 Labor Day hurricane and Hurricane Andrew in 1992 . Mississippi bore the brunt of Hurricane Camille . A combination of strong winds and large storm surges caused adverse impact in the state . In Mississippi alone , 3 @,@ 881 dwellings were destroyed and 41 @,@ 848 were damaged . About 406 trailers were destroyed and an additional 325 suffered major losses . An estimated 645 farm buildings were destroyed and another 2 @,@ 002 received major damage . In addition , 569 small businesses were impacted .

In Mississippi 's neighboring states of Alabama and Louisiana , 1 @,@ 781 homes were destroyed and 6 @,@ 000 others were inflicted losses . About 676 trailers were demolished and 296 were severely impacted . Additionally , 124 small businesses were either destroyed or incurred major damage . Camille rapidly weakened after landfall on August 18 and was only a tropical depression about 24 hours later . However , the storm maintained intensity as it recurved to the east over the

Ohio River Valley . It dropped heavy rainfall while approaching the Atlantic Ocean , especially in Virginia . Up to 27 in (690 mm) fell in west central Nelson County . In Nelson County alone , 133 bridges washed out , while in some places entire communities were under water . Rivers crested at record heights , causing severe flooding . In the state of Virginia and West Virginia combined , an estimated 349 homes were destroyed and 2 @,@ 587 received damage to some degree . Eighty @-@ three trailers were demolished and 71 others received major losses . Reportedly , 730 farm buildings were destroyed and 535 were inflicted minor damage . Ninety @-@ six small businesses were also severely damage or destroyed . Along its path , rainfall was recorded in several other states , including Arkansas , Delaware , Florida , Georgia , Illinois , Indiana , Maryland , New Jersey , North Carolina , Ohio , Pennsylvania , South Carolina , and Tennessee . After reaching the Atlantic , Camille re @-@ strengthened into a 70 mph (115 km / h) tropical storm , but was absorbed by a cold front south of Newfoundland on August 22 . With losses estimated at \$ 1 @.@ 4 billion , Camille was considered the costliest hurricane in United States history at the time . Additionally , there were 256 deaths in the United States .

= = = Hurricane Debbie = = =

On August 14 , a tropical wave developed into a tropical depression while located about midway between the Lesser Antilles and the coast of Africa . The following day , the depression strengthened into Tropical Storm Debbie . By late on August 16 , Debbie became a Category 1 hurricane . Moving northwestward , it intensified further to a Category 3 hurricane with winds of 115 mph ($185\ km\ /$ h) on August 18 . However , the storm then began oscillating between a Category 1 and a Category 3 hurricane for the next few days , possibly due to being seeded by silver iodide as part of Project Stormfury . On August 20 , Debbie attained its peak intensity with maximum sustained winds of 120 mph ($195\ km\ /$ h) and a minimum barometric pressure of $951\ mbar$ ($28\ @$.@ 1 inHg) .

The storm curved northeastward as Hurricane Camille moved offshore the East Coast of the United States and briefly weakened to a Category 2 hurricane on August 21 , before re @-@ strengthened into a Category 3 hurricane hours later . Debbie accelerated and fell to Category 2 intensity by midday on August 23 . The storm curved northward and weakened to a Category 1 hurricane on the following day , shortly before passing just offshore Newfoundland . Debbie turned northeastward and deteriorated to a tropical storm on August 25 . Several hours later , the hurricane dissipated about 225 mi ($360~{\rm km}$) east @-@ northeast of Cape Farewell , Greenland . In Newfoundland , wind gusts up to 85 mph ($140~{\rm km}$ / h) were observed in St. John 's , while rainfall up to 0 @ .@ 98 in ($25~{\rm mm}$) was recorded along the Avalon and Bonavista peninsulas .

= = = Tropical Storm Eve = = =

In the wake of Hurricane Camille , a quasi @-@ stationary front moved across the Southern United States and became situated over North Florida . A cut @-@ off low pressure area developed along the system and acquired a low @-@ level circulation . By 0000 UTC on August 25 , the system was classified as a tropical depression while located about 100 mi (160 km) east of Jacksonville , Florida . Due to cold air in the region , the depression strengthened slowly while tracking nearly due east . Late on August 25 , it was upgraded to Tropical Storm Eve .

On August 26 , the National Hurricane Center noted although conditions would prevent rapid deepening , further intensification was possible . The storm threatened the Mid @-@ Atlantic states and Bermuda , but remained offshore and caused no impacts in either region . Eve strengthened slightly on August 26 , reaching maximum sustained winds of 60 mph ($95\ km\ /\ h$) . Although the storm weakened later that day , Eve reached its minimum barometric pressure of $996\ mbar$ ($29\ @.@$ 4 inHg) . Early on August 2 , Eve was downgraded to a tropical depression . It began to succumb to the effects of cold air , which entrained the circulation of the storm . At 0000 UTC on August 28 , Eve degenerated into a trough of low pressure while located about 70 mi ($110\ km$) west @-@ northwest of Bermuda .

A tropical wave developed into a tropical depression near the Windward Islands on August 29 . Initially , the depression slowly strengthened while moving west @-@ northwestward and was upgraded to Tropical Storm Francelia until more than 24 hours later . While located north of Honduras , it curved west @-@ southwestward and was upgraded to a hurricane on September 1 . The storm briefly became a Category 3 hurricane on September 2 , peaking with winds of 115 mph ($185\ km\ /\ h$) . Late on September 3 , Francelia made landfall near Punta Gorda , Belize with winds of $100\ mph$ ($155\ km\ /\ h$) . The storm quickly weakened inland , and less than 24 hours later , it dissipated over northern Guatemala . However , the remnants of Francelia later contributed to the development of Hurricane Glenda in the eastern Pacific Ocean .

During its early stages , Francelia brought gusty winds and light rainfall to several islands in the Caribbean Sea . While remaining nearly stationary offshore Central America , heavy precipitation fell in some countries , especially Guatemala where severe flooding killed 269 people and caused \$ 15 million in damage . Throughout the country , approximately 10 @,@ 200 people were left homeless . In neighboring Honduras , the hurricane caused damage in the northern portions of the country , with the offshore Bay Islands Department being particularly hard hit . There , the storm damaged or destroyed the majority of two towns . In El Salvador , flooding isolated towns for several days and caused crop damage . Coastal areas of Belize lost electricity and telephone service , and high winds resulted in extensive damage to banana crops . A number of rivers in the region flooded , including the Belize River , which reached 36 ft (11 m) above normal . Francelia ranked as the deadliest tropical cyclone in Guatemala , until Hurricane Mitch in 1998 . Overall damage was estimated at \$ 35 @.@ 6 million , and there were 271 deaths .

= = = Hurricane Gerda = = =

A tropical wave located over the central Bahamas developed into a tropical depression on September 6 . The depression moved northwestward and initially remained disorganized . By early on September 7 , the depression made landfall near West Palm Beach , Florida . Impact in the state was minimal , limited mostly to light rainfall . Later on September 7 , the depression reemerged into the Atlantic Ocean just south of Cape Canaveral . It began to strengthen on the following day and was upgraded to Tropical Storm Gerda at 0600 UTC . By late on September 8 , Gerda intensified into a hurricane . The storm deepened significantly further , peaking with winds of 125 mph (205 km / h) on September 9 . Early on September 10 , Gerda weakened slightly while approaching New England and Atlantic Canada .

It made landfall near Eastport , Maine on September 10 and was one of the strongest tropical cyclones to strike the state . Despite landfall as a Category 2 hurricane , the strongest sustained wind speed recorded was 60 mph ($95\ km\ /\ h$) in Washington County , Maine . Twenty @-@ four @-@ hour rainfall amounts exceeding 4 in ($100\ mm$) were observed in some areas of New England , with a precipitation peak of 5 @.@ 67 in ($144\ mm$) in Wellfleet , Massachusetts . Due to the winds and rainfall , portions of Maine , Massachusetts , and New Hampshire reported power outages and localized flooding . By 0600 UTC on September 10 , Gerda became extratropical over southeastern Quebec . In Atlantic Canada , winds left many without electricity in New Brunswick and Nova Scotia , and left about \$ 3 @.@ 5 million in losses to apple crops .

= = = Hurricane Holly = = =

A tropical wave emerged into the Atlantic Ocean from the west coast of Africa on September 8 . Moving westward to west @-@ northwestward , it developed into a tropical depression at 1200 UTC on September 14 , while located about 1 @,@ 250 mi (2 @,@ 315 km) southeast of Puerto Rico , based on Hurricane Hunter observations of an organized circulation . It quickly organized and was soon upgraded to Tropical Storm Holly . Continuing northwestward , it steadily intensified , and the

Hurricane Hunters reported that Holly attained hurricane status on September 16, with peak winds of 85 mph (140 km/h) and a minimum barometric pressure of 984 mbar (29 @.@ 1 inHg).

On September 16, Holly weakened slightly while turning westward toward the Lesser Antilles. Due to the lack of good upper @-@ level outflow, as well as unfavorable water, Holly quickly weakened to tropical storm status on September 18, as confirmed by the Hurricane Hunters. By the next day, it weakened to tropical depression status and later moved through the Lesser Antilles. Holly dissipated on September 21 in the Caribbean Sea, while situated between the Los Roques archipelago of Venezuela and Puerto Rico.

= = = Tropical Depression Twenty @-@ Nine = = =

Ship reports on September 19 indicated the presence of low pressure area in the Gulf of Mexico , centered about 300 mi (480 km) west @-@ northwest of Key West , Florida . It is estimated that a tropical depression developed at 1200 UTC on that day . The depression headed north @-@ northwestward and did not strengthen . By early on September 21 , the depression made landfall between Panama City and Port St. Joe , Florida . It degenerated into a remnant low pressure area only a few hours later . A high @-@ pressure ridge blocked the system 's movement , moving it to the east . By September 23 , the system became a low pressure trough . Upper @-@ level wind shear moved the circulation to the east @-@ northeast and moved into the Atlantic Ocean the next day .

Rainfall in peaked at 23 @.@ 4 in (590 mm) in Havana , with and exceeding 15 in (380 mm) in most of the central Panhandle . Many bridges and roads were washed out or inundated by water , including portions of U.S. Route 98 and State Road 20 between Tallahassee and Panama City . In addition , a tornado spawned by the depression destroyed a trailer , damaged 30 homes , and toppled ballpark bleachers , fences , lights , and electrical poles . Damage in Florida reached almost 3 @.@ 78 million , including 1 @.@ 65 million to crops and 2 @.@ 135 million to property . In southwest Georgia , precipitation totals exceeding 5 in (130 mm) were common , while rainfall peaked at 14 in (360 mm) in southern Decatur County . Severe local flooding ensued , causing damage to property and crops , mostly to peanuts that were not threshed . Up to 7 in (180 mm) of rainfall fell in Alabama , while precipitation totals reached 3 in (76 mm) in Tennessee , South Carolina , North Carolina , and Virginia .

= = = Hurricane Inga = = =

A tropical disturbance developed into a tropical depression on September 20 . By the following day , it strengthened into Tropical Storm Inga while centered about 930 mi ($1\ @, @$ 500 km) east @-@ southeast of San Juan , Puerto Rico . At the time , the storm was moving westward at 14 mph (23 km / h) . However , by September 23 , the storm weakened to a tropical depression . The depression continued west @-@ northwestward , passing north of the Leeward Islands , before drifting northwestward . Inga became a tropical storm again on September 29 . It continued to intensify , and achieved hurricane status on September 30 , while curving northeastward . The storm then turned towards the south , and ultimately completed a cyclonic loop as it bent back westward . Late on October 3 , Inga turned to the northwest .

Early on October 5 , the hurricane produced wind gusts up to 80 mph ($130\ km\ /\ h$) on Bermuda , though minimal impact occurred other than power outages . Thereafter , Inga curved northeastward and continued deepen . Later on October 5 , it peaked as a Category 3 with maximum sustained winds of 115 mph ($185\ km\ /\ h$) and a minimum barometric pressure of 964 mbar ($28\ @.\ @.\ g$ 5 inHg) . While moving into an environment of colder sea surface temperatures , the storm began to weaken . As cold air became entrained into its circulation , the storm began to lose tropical characteristics . Inga briefly re $\ g$ -@ strengthened while beginning to drift generally eastward . However , storm turned southward and began to weaken , deteriorating to a tropical storm on October 10 . Heading westward , Inga was downgraded to a tropical depression , before dissipating fully on October 15 , while located about 290 mi ($470\ km$) from where it initially attained hurricane status .

= = = Subtropical Storm One = = =

An upper @-@ level low pressure area in the southeastern Gulf of Mexico spawned a subtropical depression at 1200 UTC on September 29 . Operationally , it was classified as Tropical Depression Thirty @-@ Two . Six hours later , the strengthened into a subtropical storm . Early on the following day , the storm peaked with maximum sustained winds of 60 mph (95 km / h) . It maintained that intensity for about 24 hours , before cool air and wind shear began weakening the storm early on October 1 . Shortly thereafter , the storm weakened back to a subtropical depression , a few hours prior to landfall near Fort Walton Beach , Florida . The subtropical depression rapidly dissipated inland .

Rainfall was relatively light and the heaviest amounts were displaced far east of the track , with precipitation peaking at 6 @.@ 74 inches (171 mm) in Saint Augustine , Florida . Closer to the location of landfall , rainfall reached nearly 4 inches (100 mm) in Pensacola . Several waterspouts were reported in the Panama City area , while a tornado in Carabelle and unroofed a home in the St. James community . United States Coast Guard planes searched for three people in a light aircraft that went missing as it traveled from DeFuniak Springs to Sebring . The storm brought rainfall to several others states , reaching as far north as Maine .

= = = Tropical Storm Jenny = = =

On October 1 , a tropical depression developed over the northwestern Caribbean Sea from the same cut @-@ off low pressure that spawned the previous subtropical storm on September 29 . The depression moved quickly north @-@ northeastward and struck Cuba early on October 2 . While approaching the southwest coast of Florida later that day , the system intensified into Tropical Storm Jenny . Simultaneously , Jenny attained its peak intensity with winds of 45 mph ($75 \ \text{km} \ / \ h$) and a minimum pressure of 1 @,@ 000 mbar ($30 \ \text{inHg}$) . Around 0000 UTC on October 2 , the storm made landfall between Fort Myers and Naples , Florida , with winds of 40 mph ($60 \ \text{km} \ / \ h$) . Jenny emerged into the western Atlantic as a tropical depression , but increased ridging forced the storm to track west @-@ southwestward back over Florida . The cyclone was unable to re @-@ strengthen and dissipated on October 6 south of Louisiana .

The storm crossed Cuba as a tropical depression . Minimal impact was reported . The storm produced moderate to heavy rainfall over parts of the Florida Peninsula , peaking at 6 @.@ 61 in (168 mm) near Deland . Minor road washouts were reported in Lee County . Rainfall along the lower Kissimmee River and the Lake Okeechobee basin caused some pastures and flood plain areas to be inundated by water . Lake Kissimmee rose 1 @.@ 5 ft (0 @.@ 46 m) in height due to precipitation . Jenny 's remnants later contributed to the development of heavy rains in southern Louisiana .

= = = Hurricane Kara = = =

A cold core trough of low pressure over the western Atlantic Ocean warmed on the eastern end , becoming a tropical depression on October 7 about 135 mi (215 km) north of Punta Cana , Dominican Republic . The depression passed south of Turks and Caicos Islands and later to the west of Mayaguana . Early on October 9 , the system turned northward and intensified into Tropical Storm Kara after several hours . Southwesterly flow associated with an upper @-@ level trough then caused the storm to curve northeastward . On October 10 , an upper @-@ level low pressure formed offshore North Carolina . Initially , Kara moved rapidly north @-@ northwest around the low . However , by October 11 , Kara and the low merged , resulting in the former moving erratically . While tracking southwestward into warmer ocean temperatures , the storm continued to strengthen .

After executing a small cyclonic loop , Kara developed an eye feature on October 14 , before strengthening into a hurricane on October 15 . While moving offshore North Carolina , the storm

brought tides of 1 to 3 ft (0 @.@ 30 to 0 @.@ 91 m) above normal between October 10 and October 15 , causing coastal flooding in very low @-@ lying areas . By October 15 , an upper @-@ level westerlies forced the storm to move northeastward and accelerate . Kara then became to strengthen further and became a Category 2 hurricane at 1800 UTC on October 17 . Six hours later , the storm peaked with sustained winds of 105 mph (165 km / h) and a minimum pressure of 978 mbar (28 @.@ 9 inHg) . Kara began losing tropical characteristics and weakening after encountering a cold trough over the northeast Atlantic , falling to tropical storm intensity late on October 18 . The storm soon became extratropical about 435 mi (700 km) north @-@ northeast of Corvo Island in the Azores .

= = = Hurricane Laurie = = =

A low pressure area developed into a tropical depression while located about 75 mi (120 km) northeast of Guanaja in the Bay Islands Department of Honduras . Although conditions were favorable for rapid deepening , the depression failed to do so because it was not vertically stacked and struck the Yucatan Peninsula late on October 18 . After emerging into the Gulf of Mexico on the following day , the system strengthened into Tropical Storm Laurie . Later on October 19 , Laurie curved northward and continued intensifying . At 12 : 00 UTC on October 20 , the storm became a hurricane . It then curved eastward over the central Gulf of Mexico and continued to deepen , peaking as a Category 2 hurricane with sustained winds of 105 mph (165 km / h) and a minimum barometric pressure of 973 mbar (28 @ .@ 7 inHg) . Thereafter , drier air began weakening Laurie on October 22 . Laurie curved southeastward and then southward , allowing it to remain well offshore the Gulf Coast of the United States .

Early on October 23 , the cyclone weakened to a tropical storm while curving west @-@ southwestward . Late the following day , Laurie deteriorated into a tropical depression . After moving southwestward and then southward , the storm made landfall near Paraíso , Tabasco , Mexico , early on October 27 . Laurie promptly dissipated . Offshore , oil rig personnel were evacuated as the storm approached . A hurricane watch was issued from Galveston , Texas , to Pensacola , Florida ; the watch was extended eastward to Apalachicola , Florida , on October 21 . Voluntary evacuations occurred in southern Louisiana out of fear of a storm similar to Hurricane Betsy in 1965 or Camille early that year . Impact on land was primarily limited to minor beach erosion . It caused minor damage in the Yucatan Peninsula , and in Tabasco .

= = = Hurricane Martha = = =

Tropical Storm Martha developed in the southwestern Caribbean Sea on November 21 . Initially , the storm developed with sustained winds of 50 mph ($85\ km\ /\ h$) , skipping tropical depression status . It remained stationary and quickly intensified into a hurricane . Martha attained maximum sustained winds of 90 mph ($150\ km\ /\ h$) on November 22 . Subsequently , Martha weakened and drifted southward . On November 24 , Martha made landfall in Veraguas Province , Panama , as a strong tropical storm . Martha was the only tropical cyclone on record to make landfall in Panama . The system weakened to a tropical depression and dissipated over land on November 25 .

Because the storm weakened prior to landfall , strong winds were not expected or reported in the impacted countries . In Panama , more than 13 inches (330 mm) of precipitation may have fallen in some areas . Agricultural land was flooded in Almirante , Bocas del Toro and streets became inundated in low @-@ lying areas of Puerto Armuelles , Chiriquí . The storm also brought significant rains to Costa Rica . Flooding and mudslides isolated most of the capital city of San José . Numerous streets were inundated in Golfito . Damage in Costa Rica reached \$ 30 million and 5 deaths were reported .

= = = Other storms = = =

In addition to the 20 other tropical cyclones of the season, there were three minor tropical

depressions . The first tropical depression (numbered five) , developed on May 29 about 85 mi (135 km) southeast of Cutler Bay , Florida . The depression tracked northeastward , and passed through the Bahamas on the Abaco Islands later that day . After crossing the Bahamas , the depression continued northeastward , and eventually dissipated 430 mi (690 km) southwest of Bermuda on May 30 . No impact was reported in the Bahamas . Also on May 29 , Tropical Depression Six developed while centered 40 mi (60 km) south @-@ southwest of San Andrés Island , Colombia . The depression headed west @-@ northwestward toward the coast of Nicaragua , however , it quickly veered away to the northeast . For the rest of its duration , the depression mainly headed north or north @-@ northeastward across the Caribbean Sea . On June 1 , the day that the 1969 Atlantic hurricane season officially began , Tropical Depression Six made landfall on the Zapata Peninsula in Cuba . The depression dissipated early on June 2 . No impact was reported in Cuba or Nicaragua .

Between June 7 and June 9 , the notable Tropical Depression Seven existed . At 0000 UTC on June 12 , Tropical Depression Eight formed about 55 mi (90 km) east of Cozumel , Quintana Roo . It moved west @-@ northwestward without strengthening and made landfall between Playa del Carmen and Puerto Morelos , Quitana Roo , later that day with winds of 30 mph ($45 \ km \ / h$) . The depression moved slowly across the Yucatán Peninsula until emerging into the Gulf of Mexico along the north coast of the Yucatán Peninsula on June 14 . No intensification occurred in the Gulf of Mexico occurred , and by 0000 UTC on June 15 , the depression dissipated while located about 50 mi ($80 \ km$) north @-@ northeast of Progreso , Yucatán . A tropical wave situated about 400 mi ($640 \ km$) east of Trinidad developed into Tropical Depression Thirteen on July 25 . The depression moved northwestward toward the Lesser Antilles and later that day crossed Barbados with winds of 35 mph ($55 \ km \ / h$) . It continued to the northwest and may have struck Martinique on June 26 . At 0000 UTC on the following day , the depression dissipated about 30 mi ($50 \ km$) west @-@ southwest of Basseterre , Guadeloupe .

In addition to the tropical depressions, four additional unnamed storms existed during the season. A subtropical depression formed offshore North Carolina on September 21. It reached subtropical storm strength that day . A few days later , it reached hurricane strength while moving to the northeast. The storm dissipated on September 26 while located about 200 mi (320 km) south of Newfoundland. Another storm developed from a subtropical depression southwest of the Azores on September 24. After drifting west @-@ southwest, it moved westward and strengthened into a subtropical storm on September 25, and later a tropical storm. The cyclone reached its 70 mph (110 km / h) peak on September 27 while moving northward . On September 29 , it dissipated east of Newfoundland. A subtropical depression formed west @-@ southwest of the Azores on October 28. Moving northwestward, it reached tropical storm status on October 29 and soon peaked with winds of 70 mph (110 km / h). The storm became extratropical to the west of the Azores on October 31. A large extratropical storm over the North Atlantic formed a subtropical storm on October 31 south of Newfoundland. It moved southeast, gaining tropical characteristics and strength on the way. It reached hurricane strength on November 4, peaking as a minimal Category 1 storm while approaching the Azores, but weakened prior to passing through the islands. The system dissipated on November 7.

= = Storm names = =

The following names were used for named storms that formed in the Atlantic basin in 1969. Storms were named Blanche, Camille, Eve, Francelia, Holly, Kara, Laurie and Martha for the first time in 1969. Names that were not assigned are marked in gray. At some point after the season began, the name Carol (originally the C name on this year 's list) was replaced with Camille. After the season, the name Camille was retired.