YEAR 1886

Twelve storms were identified as having occurred in 1886. Tracks for these storms are presented in Fig. 3.

Storm 1, 1886 (Jun. 13-14), H.

The following information was found in relation to this storm: 1) Galveston, Tx. Morning of Jun. 13, barometer was low and continued falling during the day, brisk wind. At 11:15 P.M. it was blowing at 27 mph and continued increasing in force. Early on Jun. 14 the gale had attained 50 mph from N.E. At 8:30 A.M. Jun. 14, barometer 29.43 inches, wind from N. and veering. At 8:05 and 8:40 A.M. the wind was 50 mph from N. Owing to high E. and N.E. winds, the water rose to an extent that were fears of overflow but wind backing to N.W. cleared the bay, preventing a possible disaster. The storm was particularly dangerous to light shipping in the harbor. Along the beach, railroad lines were washed out and many bath-houses were completely demolished. Rain fell at intervals during the storm (Monthly Weather Review, Jun. 1886). Author’s note: A second value of 29.47 inches for the lowest barometer was given in this publication. 2) Jun. 13-14, 1886. Sabine, Texas. Inundation. The hurricane passed inland near Sabine, Tx. causing an inundation extending several miles inland (Tannehill, 1938). 3) Jun. 14, 1886. Upper Texas coast. Minor. Center remained offshore (Dunn and Miller, 1860). 4) Sabine Pass, Tx. Between Taylor Bayou and this place, 8 miles of railroad tracks were washed out by the storm of Jun. 14. Several residences, warehouses and all the wharves at Sabine City were either blown or washed away. The water rose 7 feet above the ordinary high tide, submerging the entire town and the county for miles to the rear. Cattle suffered severely for fresh water, as all the inland lakes and pools were impregnated with the saline waters of the Gulf of Mexico (Monthly Weather Review, Jun. 1886). 5) Orange, Tx. A very heavy N.E. gale blew here all day Jun. 14, doing much damage to crops and vegetation. The storm was accompanied by heavy rainfall (Monthly Weather Review, Jun. 1886). 6) New Orleans, Jun. 14. A storm had been raging all day in the western part of the state. Because of prostrated wires, no information was available west of Lake Charles. At 6 P.M. it was learned that the violent wind with rain had prevailed there since 10 A.M. The lines from there to Texas are down and extremely heavy rainfall was experienced this evening but there has been no wind (The New York Times, Jun. 15, 1886, p.2, col.3).

Information in the above items supports the track shown in Neumann et. al. (1993) with the exception that items 2) and 4) do suggest a track a few miles to the west over a portion of Jun. 14 to better account for the characteristics of the flooding at Sabine Pass and vicinity. Therefore, the author of this study made the indicated adjustment by bringing the storm center almost over Sabine Pass instead of having passed about 20 miles to the S.E. of that place. The author’s track is displayed in Fig. 3.

There are some clues that this storm might have existed for some days before Jun. 13 as space-time continuity along a hypothetical track backward to the S.E. and E. would fit the
following weather information: Papers which have reached Bermuda contain an account of a rain and wind storm at Jamaica. A dispatch from Morant Bay (Jun. 16) indicated that on Jun. 7 the weather was most threatening and the gale reached its height on Jun. 8. The main roads are blocked from fallen trees at Chapelton and, at Clarendon, the storm was severe and unexpected. At about 11 P.M. (Jun. 7) the wind was terrific and the rain continued to pour until about 2 A.M. on Thursday, Jun. 8 (The New York Times, Jul. 15, 1886, p.1, col.6). However, the author decided not to extend the track backwards to the region near Jamaica on Jun. 7 or 8 because it was not possible for him to link in a conclusive manner the meteorological events which occurred at Jamaica and off the Texas coast.

Based on item 2), and most importantly, on the water rise to 7 feet above normal high tide reported at Sabine Pass (item 4), the author of this study believes that the storm had attained full hurricane intensity by landfall near Sabine Pass on Jun. 14. Therefore, he considered it appropriate to upgrade to a hurricane the tropical storm status indicated in Neumann et al. (1993).

Storm 2, 1886 (Jun. 17-24), H.

The following information was found about this storm: 1) From Diario de la Marina, Havana, Cuba, Jun. 21, 1886. The heavy rainstorm which prevailed during the last few days began on Jun. 17 and 18 in the immediate vicinity of the Yucatan Channel and in the adjacent east portion of the Gulf (of Mexico), where it remained about stationary during four consecutive days. The rains were copious and frequent from the central part of the island to Cape San Antonio, on the coast of Yucatan and in the Gulf States. The rain caused heavy flood, and various localities were inundated (Monthly Weather Review, Jun. 1886). Author’s note: This information was sent to the U.S. Signal Service by Rev. Benito Vines, director of the Belen College Observatory of Havana. 2) Havana, Jun. 28, 1886. The heavy rain which fell in Vuelta Abajo from Jun. 17 to Jun. 24 has been unexampled in Havana during the month of June for the last 29 years (Monthly Weather Review, Jun. 1886). This information was also produced by Father Vines. The words Vuelta Abajo refer to Pinar del Rio province in western Cuba. 3) Jun. 17-24, 1886. Atmospheric perturbation of a large diameter and a rather light barometric depression caused torrential rains for 6 consecutive days over the western provinces of Cuba, resulting in a lot of damage and a number of persons drowned. Rains also reached the other provinces, with moderate winds in the periphery of the tempest (Sarasola, 1928). Author’s note: Actually taken from the catalog of Cuban cyclones by M. Gutierrez-Lanza which is included in Sarasola (1928). 4) The storm moved directly northward over western Florida causing severe southerly gales at Key West and Cedar Keys (Monthly Weather Review, Jun. 1886). 5) Storm of Jun. 15-20, 1886. Yucatan Channel, Florida. Much damage at Cedar Keys. Wind 68 mph (Tannehill, 1938). 6) Report by the Signal Service observer at Cedar Keys. At 8:35 P.M. Jun. 20 a heavy rain storm, accompanied by violent E. and N.E. wind, prevailed in this place and continued with considerable energy all night. The wind
came in squalls, blowing at times in the night at a rate of 75 to 90 mph, shaking the strongest house in the town and prostrating trees, telegraphs poles and signs. Between 10 and 11 P.M. the wind blew from E. at 68 mph; this is the highest velocity ever recorded here, but owing to the direction from which it came little damage was done (Monthly Weather Review, Jun. 1886). 7) Jun. 21, 1886. Appalachicola. Major. High tides (Dunn and Miller, 1960). 8) Dangerous E. winds prevailed along the South Atlantic coast on Jun. 20, 21 and 22. The storm moved over the South Atlantic states and moved off the Middle Atlantic coast attended by dangerous winds S. of New York. After reaching the New Jersey coast the storm apparently decreased in energy and the direction of movement changed to the eastward. It was last marked as central S. of Long Island near the 40 degrees N. parallel (Monthly Weather Review, Jun. 1886). Author's note: The storm was continued to be traced eastward from the "last marked" position indicated in this item. 9) After having passed off the U.S. coast in lat. 39 30 N. during Jun. 23, the depression continued moving due E. and was apparently central in lat. 40 N., long. 60 W. on Jun. 24, whence it dissipated to the eastward (Monthly Weather Review, Jun. 1886).

Some modifications were introduced along the track for Storm 2, 1886 which is shown in Neumann et al. (1993); these modifications were aimed at obtaining a track which conforms better with the content of most items above. The modifications required new 7 A.M. position estimates by the author of this study for Jun. 17 through Jun. 21 and also for Jun. 24. 7 A.M. positions for Jun. 22-23 in Neumann et al. (1993) were kept unchanged. Author's estimated positions were as follows: Jun. 17, 20.0 degrees N., 85.3 degrees W.; Jun. 18, 21.7 degrees N., 85.7 degrees W.; Jun. 19, 23.3 degrees N., 85.3 degrees W.; Jun. 20, 25.3 degrees N., 84.5 degrees W.; Jun. 21, 30.3 degrees N., 84.0 degrees W.; Jun. 24, 40.0 degrees N., 60.0 degrees W. Positions for Jun. 17 through Jun. 20 were primarily based on information in item 2); the Jun. 21 position was essentially based on item 6) and on space-time continuity; the Jun. 24 position was based on item 9). The author's track for Storm 2, 1886 is displayed in Fig. 3. For the period Jun. 17-21, such a track is to the east of the one shown in Neumann et al. (1993) for the period Jun. 18-21. The portion of the author's track for late Jun. 23 and for Jun. 24 represents an extension of the track displayed by the above mentioned authors.

The 75 to 90 mph maximum winds mentioned in item 6) as well as information contained in item 7) allowed the author of this study to verify the hurricane status that Neumann et al. (1993) attributed to Storm 2, 1886. However, an independent verification of the major hurricane status claimed in item 7) was not possible in the light of the remaining items above.

Storm 3, 1886 (Jun. 27-Jul. 2), H.

The following information was found in relation to this storm: 1) El Guajiro de Sancti-Spiritus states that, on Jun. 30, Capt. Charles W. Hunter arrived at the port of Zaza and made the following statement: Sailed with the English schooner "Daizy" on Jun. 26; on the evening of the same day, in lat. 19 34 N., long. 79
10 W., the wind was from the E.; at 10 A.M. Jun. 27, being W. of Jamaica, the hurricane was at its greatest force and the sea very high (Monthly Weather Review, Jun. 1886). Author's note: This information and additional one on the cyclone near and over Cuba was sent to the Chief Signal Officer by Rev. Benito Vines, director of the Belen College Observatory of Havana. Sancti-Spiritus is a town in central Cuba and El Guajiro de Sancti-Spititius is obviously a paper published there. Zaza (Tunas de Zaza) is a port on the south-central coast of Cuba which is located to the south of Sancti-Spiritus. 2) The Diario de la Marina (published at Havana), Jun. 30, 1886, contained an extract from the Diario de Cienfuegos, Jun. 28, as follows: At 10 A.M. this morning (Jun. 28) very heavy gusts of wind from the S.E. prevailed; the wind, which was moderate in force during the first hours, increased in force up to 2 P.M., blowing from the same quarter. The "Gloria", which sailed this morning (Jun. 28) to Trinidad, reported that the wind was very severe and the sea high (Monthly Weather Review, Jun. 1886). 3) According to a dispatch received from the mayor of Batabano, dated on Jun. 28, 2:30 P.M., a very heavy wind from S.E. prevailed in that place, causing some damage to boats in the harbor (Monthly Weather Review, Jun. 1886). Author's note: Batabano is a port located on the southern coast of Havana province (Cuba). 4) Observations taken at La Coloma (Cuba) by Manuel Yago, Adjutant of Marines. Jun. 28, 5 P.M., barometer 30.12 inches, wind N. force 6 (scale 0-10), heavy squalls; 6 P.M., barometer 29.92 inches, wind N.N.W. force 6, heavy squalls; 7 P.M., barometer 29.80 inches, wind N.W. force 9, heavy squalls; 8 P.M., barometer 29.63 inches, wind W. and S.W. force 9, heavy squalls; 9 P.M., barometer 29.49 inches, wind W. force 8, heavy squalls; 10 P.M., barometer 29.57 inches, wind S.W. force 9, heavy squalls; 11 P.M., barometer 29.92 inches, wind S.S.W. force 10, heavy squalls; midnight Jun. 28-29, barometer 30.04 inches, wind S. force 10, heavy squalls; 1 A.M. Jun. 29, barometer 30.04 inches, wind S. force 6, heavy squalls; 2 A.M., wind S.S.W. force 9, heavy squalls; 3 A.M., barometer 30.04 inches, wind S.S.E. force 7., heavy squalls; 4 A.M., barometer 30.04 inches, wind S.E. force 6, clear in second quadrant; 5 A.M., wind S.E. force 5, clear in second and third quadrants, thunder (Monthly Weather Review, Jun. 1886). Author's note: La Coloma is a port which is located on the southern coast of Pinar del Rio province (western Cuba), just to the south of the city of Pinar del Rio. Barometer readings look suspicious after midnight Jun. 28-29. 5) Jun. 28-29, 1886. A cyclone of moderate intensity passed S. of Batabano and moved across the Pinar del Rio province, causing significant damage not only due to the winds but also due to flooding (Sarasola, 1928). Author's note: Actually taken from the catalog of Cuban hurricanes by M. Gutierrez-Lanza, which is included in Sarasola (1928). 6) Havana, Jul. 3. The extreme western portion of this island was touched on Jun. 29 by a cyclone which came across the Caribbean Sea in a N.W. direction. There were rain and squalls here, but only a slight damage was done. At Vuelta Abajo the wind acquired considerable velocity and country homes were blown down and trees uprooted. Considerable damage was done at Batabano where roofs were turned, fields destroyed and several vessels injured (The New York Times, Jul. 9, 1886, p.1, col.6). 7)
Reports received from vessels and from stations in the West Indies indicate that the cyclone existed to the S. of Cuba on Jun. 27 and 28, and that it passed northward crossing the 25 degrees N. parallel near the 89 degrees W. meridian on Jun. 29 (Monthly Weather Review, Jun. 1886). Author's note: The probable location near 25 degrees N., 89 degrees W. is too far west and if it were accepted it would have implied that the storm moved at a rate of nearly 30 mph from a position to the N. of La Coloma (Cuba) at 9 P.M. Jun. 28 (which can be inferred from item 6) to the suggested position in the morning of Jun. 29, a motion which is unrealistic and is not supported by other data. 8) Tallahassee, Fl. Rain began to fall about 4 A.M. Jun. 30 and continued until midday with occasional gusts; about midday a violent S.E. gale set in accompanied by heavy rain which continued until 6 P.M. It is estimated that the wind blew at a rate of 80 mph. The damage to the town was not very great but considerable damage was done to crops in the country. At Ockockonee, 8 miles W. of Tallahassee, two large lumber sheds and a mill were demolished. The Little River Bridge on the Mobile and Pensacola Railroad was partly undermined (Monthly Weather Review, Jun. 1886). 9) Appalachicola, Fl. A very heavy gale of almost hurricane force occurred here on Jun. 30. About 10 A.M. the wind commenced to blow a light gale from S.E. and by 1 P.M. it had increased to 70 mph; at 4:30 P.M. there was a lull in the storm and the wind suddenly changed from the S.E. to the opposite direction, and blew with great force, unroofing houses, throwing down smoke-stacks and destroying frame structures. The greatest damage was done to shipping in the bay; several vessels were capsized, some were sunk and nearly every one in the harbor was more or less injured; several lives were lost (Monthly Weather Review, Jun. 1886). 10) Cedar Keys, Fl. During the afternoon of Jun. 30 the wind blew hard from E.N.E. and increased steadily in velocity until 10:30 P.M., when it veered to E. and attained the velocity of a high gale and continued blowing with great energy during the night. The damage done by the storm was light. Some injury to roads was done by high tides and one warehouse was blown from its foundation (Monthly Weather Review, Jun. 1886). Author's note: The wind at Cedar Keys should have blown mainly from S.E. and S. during the night of Jun. 30- Jul. 1. 11) Savannah, Ga. A very heavy gale and rain prevailed over southern Georgia during the afternoon and night of Jun. 30. According to the Georgia Crop Report, the storm did much damage to crops and passed over Washington, Twiggs, Brooks, Thomas and Dougherty counties, covering in its track the width of several counties in the northwestern part of the state (Monthly Weather Review, Jun. 1886). Author's note: As the above mentioned counties are in southern and central Georgia, the statement "covering in its track the width of several counties in the extreme northwestern part of the state" appears to be in error. 12) Augusta, Ga. On the morning of Jul. 1 rain fell until 10:40 A.M., accompanied from 1:30 A.M. to 6:15 AM by a strong N.E. wind which at 4:30 A.M. attained the force of 30 mph (Monthly Weather Review, Jul. 1886). 13) Fort Macon, N.C. A violent wind and rain storm, attended by thunder and lightning, prevailed during Jul. 1. The rainfall was very heavy, 6.49 inches falling in 24 hours. The wind veered from N.E. to S.E., from which point it blew
a gale of 44 mph at 11:30 A.M. (Monthly Weather Review, Jul. 1886). 14) Kittyhawk, N.C. During Jul. 1 light rain and E. wind prevailed; at 8:50 P.M. the wind had increased to a gale of 42 mph (Monthly Weather Review, Jul. 1886). 15) On the morning of Jul. 2, the storm was central near Norfolk and on that day disappeared off the coast near Chincoteague, Va. (Monthly Weather Review, Jul. 1886).

Most of the track for Storm 3, 1886 which is shown in Neumann et al. (1993) required to be modified to fit information contained in the above items. New 7 A.M. positions were estimated by the author of this study for the period Jun. 27- Jul. 1 and only their 7 A.M. Jul. 2 position was kept unchanged. The author's 7 A.M. positions were as follows: Jun. 27, near 18.3 degrees N., 79.7 degrees W., on the basis of information in item 1); Jun. 28, near 21.5 degrees N., 81.5 degrees W., based on item 2); Jun. 29,, near 23.7 degrees N., 85.3 degrees W., primarily based on item 4) and on space-time continuity; Jun. 30, near 27.3 degrees N., 86.7 degrees W., primarily based on space-time continuity applied backwards using information in items 8) and 9), this position is very close to the one displayed in Neumann et al. (1993); Jul. 1, near 33.0 degrees N., 81.3 degrees W., on the basis of information in item 12), this position is about 70 miles to the N.E. of the corresponding position in Neumann et al. (1993). The author's positions as well as the 7 A.M. Jul. 2 position in the above publication were used in preparing the track for Storm 3, 1886 which is shown in Fig. 3.

On the basis of information in items 4), 5) and 8), the storm attained hurricane intensity. Therefore, the hurricane status which is attributed to Storm 3, 1886 in Neumann et al. (1993) was verified.

Storm 4, 1886 (Jul. 16-24), H.

The following information was found in relation to this storm:

1) Havana, Jul. 13, 1886. There have been indications of a cyclonic disturbance in the South Sea (the Caribbean) since the day before yesterday. It passed from the second to the third quadrant (in relation to Havana) and will pass us by the W. (Monthly Weather Review, Jul. 1886). Author's note: This and all other information about the storm in Cuba was forwarded to the Signal Service by Father Vines, director of the Belen College Observatory of Havana.

2) Havana, Jul. 16, 1886. The cyclonic disturbance, after having advanced slowly by the W., has passed us by the fourth quadrant and is probably moving at present in a northeasterly direction. Copious rains have fallen in Vuelta Abajo today (Monthly Weather Review, Jul. 1886). 3) Observations taken at Mantua. Jul. 16, 8 A.M., low clouds with violent gale in the W., rough sea, wind variable from S.E., the storm started to be felt. Jul. 17, 8 A.M., since 8 o'clock yesterday morning the weather has been thick, wind from E. to W. velocity 20 meters (per second), copious rains, cloudy horizon, light thunder, wind direction steady for 10 to 15 minutes at a time, same conditions at 10 A.M. Jul. 18, 8 A.M., dark horizon, no wind (Monthly Weather Review, Jul. 1886). Author's note: Mantua is located near the northwestern coast of Pinar del Rio province. 4) Observations taken at the city of Pinar del Rio.
Jul. 16, 9 A.M., cloudy, copious rains from 7:30 to 8:30 A.M. Jul.
17, 8 A.M., weather continues cloudy and rainy. Jul. 18, 9 A.M.,
"severe hurricane" with copious rains at 3 A.M., at this hour the
weather has moderated (Monthly Weather Review, Jul. 1886). Author’s
note: The city of Pinar del Rio is located in the interior of the
province of the same name. 5) Consolacion del Sur. Jul. 16, 4:27
A.M., aneroid barometer 29.92 inches, wind S.W., threatening
weather; 8:30 A.M., aneroid barometer 29.87 inches, very
threatening, rain in the S.W., squally weather. Jul. 17, 8 A.M.,
aneroid barometer 29.96 inches, raining since yesterday without
interruption, wind S.W., very gloomy. Jul. 18, 8 A.M., aneroid
barometer 29.96 inches, gloomy, raining from S.W. (Monthly Weather
Review, Jul. 1886). Author’s note: Consolacion del Sur is located
in the interior of Pinar del Rio province, just east of the city of
Pinar del Rio. 6) Observations taken at La Coloma. Jul. 17, 8 A.M.,
18, 8 A.M., aneroid barometer 30.12 inches, wind force 6 (Monthly
Weather Review, Jul. 1886). Author’s note: La Coloma is a port on
the southern coast of Cuba, just to the south of the city of Pinar
del Rio. 7) Observations taken at Bahia Honda. Jul. 17, 8 A.M.,
aneroid barometer 30.08 inches, wind S.E. slack, rainy weather.
Jul. 18, aneroid barometer 30.12 inches, fresh wind, clear
atmosphere (Monthly Weather Review, Jul. 1886). Author’s note:
Bahia Honda is a port which is located on the northern coast of
Pinar del Rio province. 8) Batabano, Jul. 17, 10:30 A.M., barometer
has a tendency to fall, strong E.S.E. wind and variable, heavy sea
swell, gloomy, continuous rain, thunder (Monthly Weather Review,
Jul. 1886). Author’s note: Batabano is located on the southern
coast of Havana province. 9) Cardenas. Jul. 17, 8 A.M., barometer
30.12 inches, S. wind and calm, gloomy, smooth sea. Jul. 18, 9:30
A.M., barometer 30.12, wind S., calming, squally weather, smooth
sea (Monthly Weather Review, Jul. 1886). Author’s note: Cardenas is
located on the northern coast of Matanzas province, just to the
east of the city of Matanzas. 10) Jul. 16-17, 1886. Cyclonic
perturbation crossed over the South Sea (the Caribbean). It only
caused torrential rains and moderate winds in Cuba (Sarasola,
1928). Author’s note: Actually taken from the catalog of Cuban
cyclones by M. Gutierrez-Lanza which is included in Sarasola
(1928). 11) Havana, Jul. 17, 1886. No dispatch has been received
from the province of Pinar del Rio since this morning, there having
been heavy thunder and squalls in the S.W. and W., where the storm
seems to be far more severe than at Havana (Monthly Weather Review,
Jul. 1886). 12) Extract from The New York Herald, Jul. 19, 1886:
Key West, Fl., Jul. 18. The effects of the gale, which evidently
passed to the westward from this place, have been severely felt
during the past 24 hours. A strong southerly wind which prevailed
during the night shifted to S.W. today and obtained a velocity of
52 mph and was accompanied by spiteful rain squalls. The barometer
fell during the night to 29.87 inches. It rose this morning but
became depressed again during the afternoon. Two steamers which
should have sailed this morning are still weather-bound tonight.
Shipping sustained no damage (Monthly Weather Review, Jul. 1886).
13) The development of the pressure area was first observed in the
Gulf of Mexico on the morning of Jul. 18 and approximately located
as having the center of disturbance about 150 miles south of Pensacola, Fl. (Monthly Weather Review, Jul. 1886). Author’s note: The storm position for the morning of Jul. 18 which was given in this item did not seem to be supported by the content of practically all other items. 14) The Jul. 19 morning map showed the storm central over Jacksonville, Fl. (Monthly Weather Review, Jul. 1886). 15) After having left northern Florida on Jul. 19, the storm moved rapidly in a generally N.E. direction across the Atlantic, passing beyond the region of observations to the west of Scotland on Jul. 24. It exhibited great energy throughout its course and was remarkable by reason of the extent of territory it traversed (Monthly Weather Review, Jul. 1886). 16) Steamship "Alpes". Morning of Jul. 18, experienced a hurricane from S.S.E., backing to S.B. at 9 P.M., to E.S.E. at 10 P.M. and E. at midnight (Jul. 18-19). On Jul. 19, the wind backed to E.N.E., N.E., N. and N.W.; lowest barometer 29.44 inches at 6 P.M. Jul. 18 in lat. 30 28 N., long. 79 10 W. When the wind shifted to N.E. it blew with hurricane force for 4 hours and then moderated and hauled to the northward. Other barometer readings were 29.64 inches at 3 P.M. Jul. 18 and 29.54 inches at 5 P.M. Jul. 18. The storm was accompanied by lightning and heavy rain; also by a tremendous sea (Monthly Weather Review, Jul. 1886). Author’s note: According to The New York Times, Jul. 23, 1886, p.8, col.6, the "Alpes" left Havana for New York on Jul. 17 and should have arrived in New York on Jul. 22, the previous day to the publication of her arrival. In addition, the barometer readings seem unreliable because the lowest pressure should have occurred much later than 6 P.M. Jul. 18 as, on the basis of the reported wind directions and strength, the storm center apparently passed closest to the ship on Jul. 19. 17) Bark "Balkan". Jul. 20, lat. 33 N., long. 69 W., had a hurricane from S.W. to N.W.; lost foretopsail (Monthly Weather Review, Jul. 1886). 18) Steamship "Geiser". Jul. 21, 3:32 P.M. (Greenwich mean time), lat. 41 11 N., long. 53 18 W., barometer 29.75 inches, wind S. force 7; barometer fell and wind increased gradually with occasional rain and overcast sky; 11:30 P.M., a gale was blowing from S. with heavy gusts; 1:30 A.M. Jul. 22, lat. 41 36 N., long. 51 15 W., the wind increased to a complete hurricane from S.S.W., torrents of rain, mist and spray covered the ship making it impossible to see the bow, barometer 29.33 inches, where it remained until 2 A.M. when the wind hauled to S.W. and W. decreasing in force; the barometer rose at a rate of 0.08 per hour (Monthly Weather Review, Jul. 1886). 19) Steamship "Gellert". Jul. 21, lat. 41 02 N., long. 55 01 W., encountered a moderate S.E. gale, wind backing to E., N.E., N. and N.W. following the gale; lowest barometer 29.23 inches at 4 P.M. (Monthly Weather Review, Jul. 1886). 20) Steamship "Umbria" had a strong gale on Jul. 21 and 22. Wind set in from S.W., veered to W.N.W. and backed to S.W. during the passage of the disturbance; lowest barometer 29.59 inches at 6 A.M. Jul. 22 when in lat. 43 05 N., long. 45 50 W. (Monthly Weather Review, Jul. 1886). 21) Map showing a track for the storm. Daily positions are as follows: Jul. 14, 19 degrees N., 83 degrees W.; Jul. 15, 21.7 degrees N., 85.5 degrees W.; Jul. 16, 24.7 degrees N., 87 degrees W.; Jul. 18, 28.5 degrees N., 85.5 degrees W.; Jul. 19, 31.3 degrees N., 82 degrees W.; Jul. 20, 37 degrees N., 70 degrees W.; Jul. 21, 42 degrees N., 61 degrees W.;
Jul. 22, 44.3 degrees N., 46.5 degrees W.; Jul. 23, 48 degrees N.,
32 degrees W.; Jul. 24, 55.5 degrees N., 21 degrees W. (Monthly

Information contained in the above items suggested the need
for major changes along the track for Storm 4, 1886 which is shown
in Neumann et al. (1993). Actually, an entirely new track was
prepared. Information in items 1) and 2) was not considered to be
enough for attempting a track prior to Jul. 16. The reason for not
making such an attempt was the large uncertainty about the distance
the disturbance was passing to the S.E., S., S.W. and W. of Havana
and also about the degree of development of the disturbance at that
time. Under these circumstances, the author of this study decided
to start the track on Jul. 16 with a 7 A.M. position for that day
near 22.0 degrees N., 86.7 degrees W. on the basis of the morning
weather observation taken at Mantua (item 3): low clouds with a
violent gale in the W. and rough seas were reported. The author's
7 A.M. Jul. 17 position was near 21.5 degrees N., 85.3 degrees W.
and was based on the gale from E. to W., velocity 20 meters per
second (about 45 mph), observed at Mantua at 8 and 10 A.M. Jul. 17
(item 3). Information from Key West (item 12) allowed the author of
this study to estimate his 7 A.M. Jul. 18 position near 26.5
degrees N., 83.5 degrees W., and the content of item 14) was used
in estimating his 7 A.M. Jul. 19 position which was near 30.3
degrees N., 81.0 degrees W. Author's 7 A.M. positions for the
period Jul. 20-24 were as follows: Jul. 20, 35.0 degrees N., 70.0
degrees W., based on item 17; Jul. 21, 38.7 degrees N., 60.0
degrees W. based on items 18) and 19) and on space-time continuity;
Jul. 22, 44.3 degrees N., 46.3 degrees W., based on items 20) and
21); Jul. 23, 48.0 degrees N., 32.0 degrees W., based on item 21);
Jul. 24, 55.5 degrees N., 21.0 degrees W., based on item 21). The
new track for Storm 4, 1886 is presented in Fig. 3.

Neumann et al. (1993) attributed hurricane status to this
storm. The statement "it exhibited great energy throughout its
course" (item 15) seemed to imply hurricane intensity and wind
and/or pressure information in items 16) through 19) confirmed that
condition. Therefore, the hurricane classification given in Neumann
et al. (1993) was found to be satisfactory.

Storm 5, 1886 (Aug. 13-21), H.

The following information was found about this storm: 1) Storm
of Aug. 13-20. Eastern Caribbean, Cuba, Indiana. Very severe in
Cuba, destroyed Indiana (Tannehill, 1939). 2) Schr. "Gertie M.
Rickerson". Aug. 14, lat.17 40 N., long. 67 30 W., encountered a
hurricane from E.S.E. to S.W. lasting 6 hours (Monthly Weather
Review, Aug. 1886). 3) Capt. Kelly of the steamship "Ozama", which
arrived from Santo Domingo, gave further particulars of the cyclone
on Aug. 14 and 15 and its results. During the night of Aug. 14-15
the barometer fell to 29.53 inches and tremendous rain fell. The
cyclone passed to the S. and W. of the city. The rain continued
during the next day, flooding the city and causing a freshet in the
Ozama River, which swept along at a rate of 8 mph (The New York
Times, Sept. 6, 1886, p 2, col.6). Author's note: The Monthly
Weather Review, Aug. 1886, also published a statement by Capt.
Kelly of the "Ozama" specifying that the barometer fell to 29.53 inches at 2 A.M. Aug. 15, after which the weather cleared with rising barometer and that the wind set in from N., changing to N.W., W., S.W. and S.E. following the passage of the disturbance. The information in the Monthly Weather Review contradicts the one given in The New York Times in the sense that Aug. 15 was a rainy day at Santo Domingo; also wind changes that allegedly occurred after the disturbance passage seemed to be suspicious. 4) Aug. 16-18, 1886. A cyclone of considerable intensity moved over Cuba east of Cape Cruz (southeastern coast) and, after crossing the eastern provinces emerged from the island near Isabela de Sagua, where the vortical calm was felt. Then it passed to the N. of Havana, where it uprooted some trees and caused some houses to collapse. There were some casualties at Santa Clara (Sarasola, 1928). Author's note: Actually taken from the catalog of Cuban hurricanes by M. Gutierrez-Lanza which is included in Sarasola (1928). 5) The damage caused by the cyclone in Cuba during Aug. 17-18 was quite severe. The storm center entered Cuba near Manzanilla (it should read Manzanillo), crossed the island and left it near Sagua (Monthly Weather Review, Aug. 1886). Author's note: A storm coming from the S.E. or E. could not have entered Cuba near Manzanillo without previously crossing some Cuban territory of Oriente province. Therefore, the storm should have entered Cuba some distance to the southeast of Manzanillo, which is in agreement with item 4). 6) Barkentine "Harriet S. Jackson", at Cardenas (Cuba), Aug. 17, reported as follows: There was in this place a moderate storm beginning early in the morning, reaching its greatest force (about 60 mph) at 3 P.M., after which it moderated to a strong breeze. The gale began from N.E. and backed to W. and S., blowing the hardest from N.W. through S.W. quadrants (Monthly Weather Review, Aug. 1886). 7) The damage caused by the cyclone of Aug. 17-18 was quite serious. In Havana the storm did but little damage and the wind attained its greatest velocity on Aug. 18 when it blew at a rate of 20 to 30 meters per second (The New York Times, Aug. 28, 1886, p.1, col.7). Author's note: The 20 to 30 mps winds, which are roughly equivalent to 45 to 70 mph, probably blew at Havana early on Aug. 18. 8) The observer at Key West reported: 7 A.M. Aug. 17, barometer 29.93 inches, falling to 29.72 inches at 3 P.M.; barometer continued nearly stationary at 29.68 inches from 5:30 P.M. until past midnight (Aug. 17-18); at 7 A.M. Aug. 18, barometer 29.82 inches. At 12:15 P.M. Aug. 17, squall of 48 mph from N.E.; at 8 P.M. the wind hauled gradually to E., followed by numerous heavy gusts of wind estimated at 60 mph; afterwards, the wind slowly hauled to S.E., blowing in very heavy squalls and dropping below gale velocity at 9:15 A.M. Aug. 18 (Monthly Weather Review, Aug. 1886). 9) Steamship "Manhattan". Passed Alligator Reef at 4:02 P.M. Aug. 17 bound for Havana. Wind blowing strong from E.N.E., with heavy squalls of rain and very low scud flying very rapidly to westward. The ship ran to the S.W. as long as possible to get clear of the Florida reefs and then hove to on starboard tack with head eastward. It ran until 1:52 A.M. Aug. 18, when could not run longer as the wind had increased so, and the sea was so high and dangerous, with barometer down to 29.36 inches and falling, that the ship hove to head to the wind to E. by S. and E.S.E. and off E.
by N. (?), blowing very hard for 4 hours, reaching at times 75 or 80 mph, with a very high dangerous sea. At 4:22 A.M., the barometer commenced to rise and at 9:22 A.M., the vessel kept off on her course to Havana; had fresh S. winds balance of passage (Monthly Weather Review, Aug. 1886). 10) U.S. lighthouse-tender "Arbutus", at Tortugas, was on the direct track of the cyclone which passed over that position between midnight (Aug. 17-18) and 2 A.M. Aug. 18, during which time the wind attained a velocity of about 70 mph (Monthly Weather Review, Aug. 1886). 11) Steamship "Comal". Aug. 18, lat. 26 35 N., long. 80 03 W., brisk S.E. wind and clear weather (Monthly Weather Review, Aug. 1886). 12) Steamship "San Marcos". Left Galveston for New York on Aug. 18. Aug. 19, lat. 27 55 N., long. 91 22 W., barometer 29.84 inches, wind E. force 6, frequent squalls with very heavy S.E. swell; Aug. 20, lat. 27 23 N., long. 89 21 W., barometer 29.92 inches, wind S.E. by E. force 4, frequent squalls with long E.S.E. swell (Monthly Weather Review, Aug. 1886). 13) Galveston, Tx. Aug. 19, the barometer fell but did not get dangerously low, standing at 29.78 inches; the lowest noted during the storm was 29.67 inches at 7 A.M. Aug. 20. On Aug. 19, wind N.E. to E., attaining 27 mph at 2:10 P.M.. Maximum wind velocity was 53 mph at 6:40 A.M. Aug. 20, the wind decreasing very slowly and the gale ending at 10:45 P.M. The wind caused the waters in the Gulf to become very high, reaching its maximum, 4 to 6 feet, at 7 A.M. Aug. 20 and remaining nearly stationary until 9 A.M., when they rapidly subsided (Monthly Weather Review, Aug. 1886). 14) Galveston, Tx., Aug. 21. During the gale of Thursday night (Aug.19), the schooner "Livonia Perkins" was capsized off the bar in 6 fathoms of water. All the street railways are badly damaged and the water covered a great portion of the city. Many families have lost all and are destitute (The New York Times, Aug. 22, 1886, p.2, col.4). Author's note: Similar information about the "Livonia Perkins" was published in the Monthly Weather Review, Aug. 1886, which added that two men were drowned in the accident. The Times (London), Aug. 21, 1886, p.5, col.6, also referred to an inundation of southern and southeastern Galveston. 15) Indianola, Tx. By midnight Aug. 19-20, the wind had increased to 40 mph from N.E., with barometer 29.76 inches. By daylight Aug.20 the water in the bay commenced to rise rapidly and at this time the wind was blowing from E. at 72 mph. At 8 A.M. the barometer had fallen to 28.86 inches. The building occupied by the Signal Office observer was crushed to pieces, causing the death of the latter. The whole town was given over to the fury of the elements and not a building was left standing when the storm cleared away. About 11 A.M. the wind had moderated perceptibly and by night there was a light S. breeze (Monthly Weather Review, Aug. 1886). 16) Galveston, Tx. Aug. 22. A special from News, Corpus Christi, says that on Friday morning (Aug. 20) one of the heaviest rainstorms for years struck that city. The wind had begun to blow very hard from S.E. the evening before and changed to N.W. between 5 and 6 A.M. Aug. 20. It blew with terrific force for 2 hours, its velocity being estimated at 75 mph (The New York Times, Aug. 23, 1886, p.1, col.6). Author's note: S.E. is obviously in error; the wind direction should have been N.E. or N. at Corpus Christi in the evening of Aug. 19. The Monthly Weather Review, Aug. 1886, also published an account of the storm
at Corpus Christi. 17) Brownsville, Tx. Midnight Aug. 19-20, barometer 29.67 inches; 7 A.M. Aug. 20, barometer 29.63 inches, wind N.W. 8 mph (Monthly Weather Review, Aug. 1886). 18) Cyclone of Aug. 19-20. Entire Texas coast. Extreme. Destroyed Indianola (Dunn and Miller, 1960). 19) Seguin, Guadalupe county, Tx. At 8 A.M. Aug. 20 the wind began to increase, shifting from the N. to the N.E at 10 A.M and continuing to increase in velocity; from 11 A.M. to 1 P.M., it blew at the estimated rate of 88 mph (Monthly Weather Review, Aug. 1886). 20) Victoria, Tx. Aug. 21. A destructive wind storm visited the city yesterday. The wind blew a hurricane. About 75 houses were demolished and 118 were more or less damaged. At about 7 A.M. Aug. 20, the eastbound train which was standing at the station here was blown over the platform (The New York Times, Aug. 22, 1886, p.2, col.4). Author’s note: The Monthly Weather Review, Aug. 1886, also published an account of the storm at Victoria. 21) Luling, Tx. Aug. 22, 1886. At about daylight Friday (Aug. 20), a terrific storm set in and continued until 7 P.M., causing great damage (The New York Times, Aug. 23, 1886, p.1, col.6). 22) Houston, Tx. The storm of Aug. 19-20 began here at 7 P.M. Aug. 19 and continued to increase in violence during the night. At 9 P.M. the wind reached its greatest velocity, breaking numerous trees but doing no damage to buildings (Monthly Weather Review, Aug. 1886). Author’s note: Winds as high as that reported at 9 P.M. Aug. 19 might have occurred at Houston through the morning hours of Aug. 20. 23) Cuero, De Witt county, Tx. A severe storm of wind and rain prevailed here between 5 and 11:30 A.M. Aug. 20 (Monthly Weather Review, Aug. 1886). 24) San Antonio, Tx. The morning of Aug. 20 opened with light rain and brisk N.E. winds; at 7 A.M., barometer 29.69 inches; by 11:30 A.M. the wind had increased to a gale from N.E. and the barometer had fallen to 28.74 inches; at 12:30 P.M., barometer 28.59 inches; at 1:30 P.M., barometer 28.03 inches. At 2:40 P.M., when shortly after the building was nearly destroyed, the barometer read 28.02 inches and the wind velocity was estimated at over 80 mph. Small hail-stones fell from 2 to 2:15 P.M.; the rainfall amount was 4.40 inches. The storm unroofed several buildings, including the signal station; with the latter roof, the anemometer and wind vane were carried away (Monthly Weather Review, Aug. 1886). Author’s note: The New York Times, Aug. 23, 1886, p.1, col.6, also published a note about the storm at San Antonio, stating that it was the worst storm on record at that place. 25) Abilene, Tx. The morning of Aug. 20 opened with cloudy weather and gentle wind from S.; during the day the wind increased in force attaining at night a velocity of 33 mph and backing to N.E. During the early morning of Aug. 21, the wind veered from N.E. to S.E. and continued blowing a gale, reaching a maximum velocity of 48 mph at 4 A.M., after which it began to subside, at the same time veering to S.W. (Monthly Weather Review, Aug. 1886).

On the basis of information in a number of the items above, some modifications were introduced along the track shown in Neumann et al. (1993) for Storm 5, 1886. These modifications required the author of this study to establish new 7 A.M. positions for the period Aug. 13-18, whereas corresponding positions for the period Aug.19-21 in Neumann et al. (1993) were accepted because they were found to be supported by information contained in items 12) through
25). No position was given by the author for 7 A.M. Aug. 12 and this contrasted with a location near 11 degrees N., 59 degrees W. given in Neumann et al. (1993) for that day. By eliminating a position for Aug. 12, the author supported item 1) which mentioned the storm for first time in the eastern Caribbean on Aug. 13 and, in addition, avoided the risk of having the storm formed too early and/or having it seriously misplaced. Therefore, the author’s first position was near 14.5 degrees N., 62.7 degrees W. for 7 A.M. Aug. 13 and was based on backward extrapolation from his estimated position for 7 A.M. Aug. 14, which was near 16.3 degrees N., 67.3 degrees W. and was based on information in item 2). The author’s 7 A.M. Aug. 15 position was near 18.3 degrees N., 71.3 degrees W. and was estimated on the basis of information in item 3). For 7 A.M. Aug. 16, the author estimated a position near 19.5 degrees N., 76.5 degrees W., after having introduced a slight deviation of the track to the left under the effect of some temporary weakening induced by the Hispaniola and also on the basis of information in items 4) and 5) which required the storm to have entered Cuba east of Cabo Cruz and to have passed near Manzanillo. The author’s position near 22.5 degrees N., 79.7 degrees W. for 7 A.M. Aug. 17 was primarily based on information in items 4) and 6) and represented a slight adjustment to the south of the corresponding position in Neumann et al. (1993) in order to satisfy that the storm center emerged from the northern coast of Cuba near Isabela de Sagua (item 4) and not about 90 miles farther east as shown in the above mentioned publication. For 7 A.M. Aug. 18, the author estimated a position near 24.7 degrees N., 84.3 degrees W., primarily on the basis of information in item 10) and on space-time continuity. The author’s positions for the period Aug. 13-18 and the unchanged positions in Neumann et al. (1993) for Aug. 19-21 allowed one to prepared the track which is displayed in Fig. 3.

The hurricane status which Neumann et al. (1993) attributed to Storm 5, 1886 was fully supported by many of the items above, and its classification as an extreme hurricane given in item 18) can be easily inferred from the minimum pressure of 28.02 inches recorded at San Antonio, Tx. (item 24), over 100 miles inland and more than 6 hours after landfall. The central pressure when the center crossed the Texas coast should have been below 27.50 inches and probably approaching 27.00 inches, which opens the possibility that the storm could have been a category 5 hurricane on the currently used Saffir-Simpson scale.

Storm 6, 1886 (Aug. 15-27), H.

The following information was found about this storm: 1) This cyclone of tropical origin was first reported to the eastward of Barbados under date of Aug. 15 (Monthly Weather Review, Aug. 1886). 2) A steamer from Europe reported a hurricane, lasting 8 hours, on the night of Aug. 15, 90 miles N.E. of Barbados (Monthly Weather Review, Aug. 1886). 3) Capt. Locke, of the steamship "Muriel", from Barbados, stated that a severe hurricane was experienced at the island of St. Vincent on Aug. 16, doing much damage; estimated width was 20-30 miles. It passed over the island from N.E. to S.W., the whole southern part of the island being laid waste. A number of
people were killed and many injured (Monthly Weather Review, Aug. 1886). Author’s note: The Times (London), Sept. 9, 1886, p.5, col.4, also published a narrative by Capt. Locke of the "Muriel" adding that thousands of trees were destroyed as well as 5 churches, a mission house and 300 dwellings were blown down. He also stated that a number of persons were killed, 30 were injured and 1500 were rendered destitute at St. Vincent. 4) According to news from the Lt. Governor of St. Vincent, a great misfortune visited the colony in the shape of a cyclone which burst over Kingstown on the morning of Aug. 16. For 2 days after the tempest, rivers were impassable and the highways blocked with trees. Four deaths occurred and from 500 to 600 houses were destroyed (The Times, London, Sept. 8, 1886, p.3, col.4). 5) From a letter about the recent hurricane at St. Vincent dated on Aug. 29: The storm broke over the hills over us about 5 A.M. (Aug. 16). I (the sender) aroused around 6 and was informed that several trees around the house were broken and that the weather looked odd. The wind rapidly increased and we aroused the rest of the family, expecting every moment that some catastrophe would happen to the house. The galvanized roof of the bathroom was whipped off, carried in the air and lodged high on the hill above us. The wind came from all sides so that the roofs of the houses above us were carried in the opposite direction into the sea. Certainly it seemed to blow from every quarter at the same time. It was at its height from 6 to 8 A.M. The animals in the yard ran about in the greatest fear and never emerged from their hiding places till all was over at about 11 A.M. (The Times, London, Sept. 13, 1886, p.12, col.4). 6) Lloyd’s agent at Barbados telegraphs that a hurricane passed over St. Vincent on Aug. 16, doing considerable damage to property. Several lives were lost (The Times, London, Aug. 21, 1886, p.5, col.6). Author’s note: The fact that the Lloyd’s agent does not mention that the hurricane affected Barbados tends to support the N.E. to S.W. motion attributed to the storm as it passed over St. Vincent on Aug. 16 (item 3) and its location some distance to the N.E. of Barbados reported by a ship in item 2). Indications are that the storm was a hurricane of a very short diameter (item 3) which passed to the N. of Barbados without seriously affecting that island. 7) Storm of Aug. 16-18. Grenada, Cuba (Tannehill, 1938). Author’s note: The storm passed to the N. of Grenada. Curiously, no mention was given as to the storm having affected St. Vincent as it did. 8) On Aug. 17 a heavy gale from the W. veering to S.E. passed over Curacao, causing much damage on the island (Monthly Weather Review, Aug. 1886). 9) Bark "Kestrel", lat. 12 40 N., long. 69 30 W., had a heavy gale, lasting 4 hours, during which lost and split sails, cabin windows stowed and cabin flooded; lowest barometer was 28.90 inches (Monthly Weather Review, Aug. 1886). Author’s note: Although no date was given, the vessel should have felt the gale late on Aug. 17. 10) Steamship "City of Para". Experienced a strong gale force 9 commencing in the morning of Aug. 19 and continuing until the afternoon of Aug. 20. Wind set in at N.E., backing to N.W., W., S.W., S., S.E. and E.S.E. during the storm; lowest barometer was 29.40 inches at 1:30 P.M. Aug. 19 when in lat. 15 36 N., long. 75 52 W. (Monthly Weather Review, Aug. 1886). 11) Steamship "Newport" experienced a storm of unusual severity on Aug.
19, soon after leaving the island of Navassa. During the afternoon the sea grew rough and rain fell in torrents while a strong wind from N.E. increased to a gale. About 6 P.M. the steamer rolled and pitched at a fearful rate. At 8 P.M. the barometer continued to fall and the vessel was headed to the eastward, away from the vortex of the storm, which by that hour had developed all the symptoms of a well-defined cyclone. The wind had increased to a hurricane and the seas were fearful. Before the morning (of Aug. 20), the center had passed to the W. and N., and the ship again laid her course for Colon (Monthly Weather Review, Aug. 1886). Author’s note: Navassa is a small island located between Haiti and Jamaica. Colon is a port on the northern coast of Panama. 12) Steamship "Alvo", at Navassa, Aug. 19 and 20, had a blow from S.W. (Monthly Weather Review, Aug. 1886). Author’s note: The S.W. direction seemed to be in error and it should probably read S.E. 13) Steamship "Claribel", laying in Morant Bay (southeastern Jamaica), inside reefs. Aug. 19, 8 A.M., barometer 29.75 inches, gradually falling. Several indications of a hurricane were absent until 11 P.M., when barometer was 29.48 inches. Made all preparations for standing to sea from 11 P.M. to 1:50 A.M. Aug. 20. Wind increased, blowing a terrific hurricane as the center passed to the southward; barometer 28.86 inches at 1:30 A.M.; barometer 29.16 inches at 2:30 A.M., with wind hauling rapidly to S.E.; barometer 29.36 inches at 3:30 A.M., with tremendous seas running dead on to the land. Having swung clear of the reef, the ship steamed out full speed with wind force 11 at 4:30 A.M. and stood southward until 9 A.M. Aug. 20 when barometer 29.66 inches, then bore away for Kingston. At commencement the storm set in from N.E., changing to E.N.E., E., S.E. and S. Lowest barometer 28.86 inches at 1:50 A.M. Aug. 20; force of gale at its height, over 12 on the Beaufort scale (Monthly Weather Review, Aug. 1886). Author’s note: As barometer readings of 28.86 inches were given for 1:30 and 1:50 A.M. Aug. 20, it seems fair to accept that the pressure stood essentially steady over the 20-minute period in spite of the fact that the lowest pressure is stated to have occurred at 1:50 A.M. 14) Steamship "Ailsa" had a whole gale to hurricane on Aug. 19 and 20, veering from E.N.E. to S.S.E.; lowest barometer 29.48 inches at 4 A.M. Aug. 20 in lat. 18 35 N., long. 76 20 W. (Monthly Weather Review, Aug. 1886). 15) Montego Bay, Jamaica. Aug. 20, wind set in from E.N.E., with heavy rain squalls, shifting to N.N.E., N., N.W. and W.S.W.; lowest barometer was 29.61 inches at 10 A.M.; greatest wind force was from N.W. from 9:30 to 10:30 A.M. (Monthly Weather Review, Aug. 1886). 16) Lloyd’s agent at Kingston telegraphed that a hurricane passed over that place on Aug. 19 and 20. Several coasting craft have been sunk or stranded. The "Northside" is supposed to have sustained damage. Communication is interrupted (The Times, London, Aug. 23, 1886, p.9, col.6). 17) A telegram from Lloyd’s agent at St. Thomas stated that a hurricane has passed over Jamaica, doing considerable damage to property (The Times, London, Aug. 21, 1886, p.9, col.5). 18) Advices from Jamaica state that during the hurricane of Aug. 19 the entire pimento crop was blown off the trees, nearly all the coffee crop destroyed, several parishes of the island denuded of trees, banana plantations destroyed and ships in the harbor of Kingston damaged (Monthly