= 1986 Pacific typhoon season =

The 1986 Pacific typhoon season has no official bounds ; it ran year @-@ round in 1986 , but most tropical cyclones tend to form in the northwestern Pacific Ocean between May and December . These dates conventionally delimit the period of each year when most tropical cyclones form in the northwestern Pacific Ocean . Tropical Storms formed in the entire west pacific basin were assigned a name by the Joint Typhoon Warning Center . Tropical depressions that enter or form in the Philippine area of responsibility are assigned a name by the Philippine Atmospheric , Geophysical and Astronomical Services Administration or PAGASA . This can often result in the same storm having two names .

A total of 32 tropical depressions formed in 1986 in the Western Pacific over an eleven @-@ month time span . Of the 32 , 30 became tropical storms , 19 storms reached typhoon intensity , and 3 reached super typhoon strength . The Joint Typhoon Warning Center considered Vera as two tropical cyclones , when all the warning centers treated Vera as one in real time , while another , Georgette , originated in the Eastern Pacific . Six of the tropical cyclones formed in August , which was the busiest month of the season . Eight tropical cyclones moved through the Philippines this season . Most of the deaths attributed to typhons in 1986 were caused by Peggy and Wayne

= = Summary = =

Of the thirty tropical storms formed in 1986 in the Western Pacific (from 32 tropical depressions) , 19 reached typhoon intensity , and three reached super typhoon strength . Broken down by month , one tropical cyclone formed in February , one in April , two in May , three in June , three in July , seven in August , three in September , four in October , six in November , and two forming in December . Vera was considered two tropical cyclones by the Joint Typhoon Warning Center after the fact , though it was operationally treated as one system , and Georgette , was a former Eastern Pacific cyclone . Eight tropical cyclones moved through the Philippines this season , while three struck mainland China , one struck Korea , and one crossed the Japanese coast . Peggy and Wayne accounted for a majority of the death toll this season . Tropical cyclones accounted for 35 percent of the annual rainfall in Hong Kong this year .

= = Storms = =

= = = Typhoon Judy (Akang) = = =

The initial disturbance formed within two degrees of the equator within the monsoon trough on January 25 . Over succeeding days , the thunderstorm area increased in size . However , it decreased significantly on January 30 . As the convective area moved slowly westward , it increased in coverage once more , organizing into a tropical depression on February 1 . Moving on a parabolic course east of the Philippines , Judy gained tropical storm status on February 2 , and typhoon strength on February 4 after recurving to the northwest of the subtropical ridge . As westerly winds increased aloft , vertical wind shear weakened Judy back into a tropical storm , which lost tropical characteristics on February 6 . After drifting slightly more east @-@ northeastward , the low pressure area dissipated .

= = = Typhoon Ken (Bising) = = =

A tropical disturbance formed along the near equatorial trough on April 20 well to the south of Guam . The system slowly increased in organization , becoming a tropical depression on April 26 . The system quickly developed thereafter , becoming a typhoon on April 27 while moving northward . The system reached its peak intensity on April 28 . The subtropical ridge built to its northwest , steering Ken to the west . South @-@ westerly vertical wind shear led to a weakening trend to begin

on April 29 . On April 30 , Ken 's low level circulation was exposed , no longer having any thunderstorms near the center . The remnant low drifted westward , dissipating by May 3 .

= = = Super Typhoon Lola = = =

Forming as a twin cyclone with Namu , which formed in the southern hemisphere , the initial disturbance of Lola developed within the monsoon trough south of Guam . Moving eastward , the system slowly developed becoming a tropical depression , then a tropical storm , on May 17 . Lola moved over Pohnpei , becoming their most destructive cyclone since 1958 . In light of the damage caused by the storm , the island was declared a major disaster area on June 3 by the American government . Continuing to intensify , Lola became a typhoon on May 18 and turned northwest . Rapid intensification continued , with Lola becoming a super typhoon on May 19 . Peaking in intensity on May 20 , Lola recurved to the north and northeast , weakening into a tropical storm on May 23 and evolving into an extratropical cyclone later that day .

= = = Tropical Storm Mac (Klaring) = = =

This system moved generally to the east @-@ northeast throughout its life cycle . Forming near Hainan Island on May 21 as a monsoon depression , the initial tropical disturbance moved through the South China sea while slowly organizing . Becoming a tropical depression in the Formosa Strait , Mac quickly became a tropical storm and turned northeast , paralleling the coast of Taiwan . On May 27 , Mac turned back towards the east @-@ northeast as upper level westerly winds increased , causing vertical wind shear which led to Mac weakening into a tropical depression before dissipating on May 29 .

= = = Typhoon Nancy (Deling) = = =

A broad area of convection formed to the southeast of Pohnpei in mid June . The convection formed a tropical depression on June 21 to the east of the Philippines . Tropical Storm Nancy was named the next and quickly strengthened into a typhoon with max winds of 75 kn (139 km / h) before striking northeastern Taiwan . After departing the island Nancy weakened to tropical storm strength while moving north through the East China Sea . Nancy passed through the Korea Straits just before turning extratropical and accelerating northeastward into the Sea of Japan . Torrential rains fell throughout South Korea , as a result of flooding 12 people were killed and 22 @,@ 477 acres (90 @.@ 96 km2) of farmland were destroyed .

= = = Tropical Storm Owen (Emang) = = =

Forming as a tropical disturbance southwest of Kosrae on June 21 . Moving west @-@ northwest , the system gradually became better organized . On June 28 , the disturbance had organized into a tropical depression . Recurving east of the Philippines and Taiwan , Owen developed into a tropical storm , reaching its maximum intensity on June 29 . Thereafter , east @-@ northeasterly winds aloft led to vertical wind shear which weakened Owen . While moving north @-@ northeast towards southern Japan , the system devolved into a low level circulation devoid of thunderstorms , and dissipated on July 2 .

= = = Super Typhoon Peggy (Gading) = = =

Typhoon Peggy , which developed on July 3 east of the Philippines , steadily strengthened to reach a peak of 130 knots (240 km / h) super typhoon on July 7 . As Peggy continued westward , it slowly weakened , and hit northeastern Luzon on July 9 as a 90 kn (170 km / h) typhoon . A slight weakening of the subtropical ridge brought Peggy more northward , where it hit southeastern China as a 55 kn (102 km / h) tropical storm on the July 11 . In Hong Kong , winds gusted to 78 knots (

144 km / h) at Tate 's Cairn and rainfall totals reached 449 millimetres (17 @.@ 7 in) at Tai Mo Shan . Peggy 's fury resulted in 333 casualties and US $ 2 @.@ 5 million (1986 dollars) in damage from torrential flooding .

= = = Typhoon Roger (Heling) = = =

An upper level low retrograded westward across the tropical Pacific ocean beginning on July 4 . On July 8 , a tropical disturbance formed southeast of the upper low southwest of Enewetak Atoll . The system moved westward , slowly organizing . Becoming a tropical depression on July 13 , the small system turned northwest , recurving gradually around a subtropical ridge to its east and northeast . The system strengthened into a tropical storm later on July 13 , and a typhoon on July 14 to the south of Japan . After turning to the northeast , the system began to experience northeasterly vertical wind shear and began to weaken . After passing east of Okinawa , the system began to transition into an extratropical cyclone , a process which completed on July 17 near the southern coast of Japan .

= = = July Tropical Storm = = =

Forming on the South China sea on July 19 , the cyclone moved northwest into mainland China on July 22 , maintaining its circulation as it turned westward before dissipating on July 24 . This system was recognized by the Japanese Meteorological Agency as a tropical storm .

= = = Severe Tropical Storm Sarah (Iliang) = = =

Developing in the Philippine Sea on July 30 , the system developed as it moved westward , becoming a tropical storm on July 31 . On August 1 , its mid @-@ level circulation center crossed into the South China sea while its surface circulation was left behind east of the Philippines . Sarah 's broad circulation center was difficult to locate until it began moving northeast east of Luzon on August 2 , when it intensified to its peak intensity . As Sarah moved east of Honshu , it evolved into an extratropical cyclone . Fourteen died in Japan due to Sarah .

= = = Severe Tropical Storm Georgette = = =

From August 3 to August 4 , Tropical Storm Georgette existed in the Eastern Pacific , but degraded into a tropical wave while moving rapidly westward . Five days later in the Western Pacific , Georgette regenerated into a tropical storm , and became a typhoon on August 10 . At this time , a tropical disturbance was developing to its west , and it became Tropical Storm Tip on the 11th . Tip and Georgette underwent fujiwhara interaction , causing smaller Georgette to loop as the larger storm Tip headed to the north . Georgette weakened to a tropical depression on August 15 , and was absorbed by Tip 's large inflow band on August 16 .

= = = August Tropical Storm = = =

This system formed in the South China sea on August 9 , and moved northwest through Hainan Island into mainland China , dissipating on August 12 . In Hong Kong , winds gusted to 70 knots (130 km / h) at Tate 's Cairn and Tai Mo Shan while Tai Po received 343 millimetres (13 @.@ 5 in) of rainfall from the depression . Extensive flooding occurred on Hainan and western Guangdong Province , killing two people . The Hong Kong Royal Observatory considered this system a tropical depression .

= = = Typhoon Tip = = =

Georgette became a typhoon on August 10 to the east of a tropical disturbance , which developed

into Tropical Storm Tip on August 11 . Tip and Georgette underwent the Fujiwhara effect , causing smaller Georgette to loop as the larger storm Tip headed to the north . Georgette became absorbed by Tip 's large inflow band on August 16 . Tip strengthened to a typhoon , and reached a peak intensity of 80 kn (150 km / h) winds before vertical wind shear caused the system to weaken . On August 19 , Tip became extratropical , and persisted as a remnant low for six more days .

= = = Typhoon Vera (Loleng) = = =

The most intense and extensive monsoon trough since 1974 spawned a tropical depression on August 15 . It drifted to the southeast , relocating several times in its formative stages . On August 16 it was upgraded to Tropical Storm Vera , and operationally the storm was to continue eastward , continuing to relocate in the broad monsoon trough and becoming a storm again on August 17 after weakening . Post @-@ analysis by the Joint Typhoon Warning Center suggested that the first storm turned to the west and dissipated , and that a new , separate storm formed well to the east on August 17 . However , the Japan Meteorological Agency maintained the system as a single storm .

Vera drifted northward until an upper level ridge forced the storm to the east , providing upper level outflow for Vera to strengthen to a typhoon on August 20 . On August 22 , Vera attained winds of 165 km / h (105 mph) before the weakening ridge forced the typhoon to the west , retracing its path it took days before . The typhoon slowly weakened , and hit Okinawa on August 25 as a 155 km / h (100 mph) typhoon . Vera turned to the northeast , hit South Korea on August 28 as a minimal typhoon , and became extratropical on August 29 in the Sea of Japan . A total of 23 people were killed from the storm , with moderate to heavy damage in its path as far north as the Soviet Far East . Damage totalled US $ 22 million (1986 dollars) across South Korea .

= = = Typhoon Wayne (Miding) = = =

One of the longest lasting Western Pacific system on record began its long life on August 16 in the South China Sea , having formed from the monsoon trough . It drifted to the southwest , then looped back to the northwest , becoming a tropical storm on August 18 . Wayne turned to the northeast and became a typhoon on August 19 . In Hong Kong , winds gusted to 78 knots (144 km / h) at Tate 's Cairn . The typhoon passed offshore of southeastern China and hit western Taiwan on August 22 . Wayne turned back to the south and southwest . Vertical shear caused Wayne to weaken to a depression on August 25 . Wayne turned back to the northeast , rotating around Vera . Once Vera accelerated away , Wayne drifted northeastward through the South China Sea , becoming a tropical storm on August 27 .

Wayne turned southward , becoming a typhoon again on August 30 . Wayne passed close to northern Luzon on September 2 before turning back to the west . Two days later while moving quickly westward through the South China Sea , Wayne reached a peak of 85 knots (157 km / h) winds . During its various passages of Hong Kong , a total of 295 millimetres (11 @.@ 6 in) of rainfall accumulated at Sai Kung . The cyclone hit northern Hainan on September 5 , entered the Gulf of Tonkin , and made its final landfall on northern Vietnam later that day as a 60 knots (110 km / h) tropical storm . The next day , Wayne dissipated over Vietnam , after 85 advisories and being the longest lasting Western Pacific system in history . Wayne brought torrential rains through its path to the Philippines , Taiwan , southeastern China , Hainan Island , and Vietnam . Because of this , 490 fatalities (most in Vietnam) , tens of thousands left homeless , and US $ 399 million (1986 dollars) in damage can be attributed to Typhoon Wayne .

= = = September Tropical Storm = = =

Originating in the subtropical west @-@ central Pacific , this large cyclone moved westward to a point south of Japan before becoming a tropical storm . Soon afterward , the system recurved across central Japan on September 2 and evolved into an extratropical cyclone as it returned to the northern Pacific ocean on September 3 . This system was recognized by the Japanese

Meteorological Agency as a tropical storm , and the Hong Kong Royal Observatory as a tropical depression .

= = = Typhoon Abby (Norming) = = =

Typhoon Abby developed from an area of persistent convection to the southwest of Truk in early August . A tropical depression formed on August 13 to the southeast of Guam and was upgraded to a tropical storm a day after passing south of the island . Abby then steadily intensified to a peak of 95 kn (176 km / h) but weakened before striking Taiwan . Typhoon Abby lashed the island with winds of 85 kn (157 km / h) and heavy rains . Flooding on Taiwan killed 13 people , and agricultural damage totalled $ 81 million (1986 USD , $ 173 million 2013 USD) . After departing Taiwan Abby continued north @-@ northeast before dissipating in the East China Sea .

= = = Typhoon Ben = = =

The initial tropical disturbance formed near Majuro on September 15 . The system moved west @-@ northwest , becoming a tropical depression on September 18 and a tropical storm on September 19 . Thirteen perished on a fishing vessel passing by Pagan as Ben passed nearby . Ben turned north @-@ northwest for a day and a half , moving around an upper level cyclone in its vicinity , before resuming a west @-@ northwest track on September 20 . Vertical wind shear , caused by strong north @-@ northeast winds aloft , weakened Ben to minimal tropical storm intensity by September 21 . Ben entered a more favourable environment , achieving typhoon intensity on September 23 before rounding the southwest portion of the subtropical ridge . Ben recurved to the northeast on September 26 , moving well to the east of Japan , as vertical wind shear increased due to strengthening winds aloft from the southwest . Ben subsequently weakened back into a tropical storm on September 30 before transitioning into an extratropical cyclone later that day .

= = = Typhoon Carmen = = =

The initial tropical disturbance was first noted to the east @-@ southeast of Majuro on September 27 . The system tracked north of due west , before consolidating slowly into a tropical depression on September 30 and a tropical storm on October 2 . After passing between Rota and Saipan , Carmen turned northwest and intensified into a typhoon on October 4 . Winds at Rota peaked at 53 knots (98 km / h) as it passed by the island . Heavy rains fell at Guam , where amounts totalled between 254 millimetres (10 @.@ 0 in) and 279 millimetres (11 @.@ 0 in) . Moving through a break in the subtropical ridge , Carmen rapidly strengthened as it turned north , then northeast , on October 6 when maximum sustained winds reached 100 knots (190 km / h) . As vertical wind shear increased due to strengthening southwest winds aloft , the cyclone weakened into a tropical storm on October 8 , evolving into an extratropical cyclone by October 9 .

= = = Tropical Storm Dom (Oyang) = = =

Initially noted as a tropical disturbance in the Philippine Sea on October 2 , the system moved slowly west @-@ northwest to the south of the subtropical ridge , becoming a tropical depression on October 4 . Crossing the Philippines , the depression caused heavy rainfall and flooding as it emerged into the South China sea and developed into a tropical storm on October 9 . Development was slow due to strong upper level winds from the northeast displacing thunderstorms west @-@ southwest of its center . Continuing to track north of due west , Dom made landfall in Vietnam and dissipated as it moved along the Laos / Vietnam border on October 12 . A total of 16 perished and damage totalled US $ 4 million (1986 dollars) in Luzon .

= = = Typhoon Ellen (Pasing) = = =

The initial tropical disturbance formed just west of the International Dateline within the monsoon trough on October 3 . The system moved westward for nearly a week without significant development . Becoming a tropical depression on October 9 and a tropical storm on October 11 , the cyclone turned to the west @-@ northwest , moving through the central Philippines into the South China sea . Turning more northerly , Ellen intensified to a typhoon while paralleling the west coast of Luzon on October 14 . By October 15 , Ellen 's track became increasingly more westerly due to a building surface high pressure area to its north . Weakening began due to westerly winds aloft and land interaction with China , and Ellen dropped back to tropical storm strength on October 17 . The cyclone moved south of Hong Kong and north of Hainan Island into mainland China on October 19 . In Hong Kong , winds gusted to 78 knots (144 km / h) at Tai Mo Shan . As it neared the border between Vietnam and China , Ellen dissipated on October 20 .

= = = Typhoon Forrest = = =

The initial tropical disturbance formed near the International Dateline on October 10 before moving on a parabolic track well east of Asia . A small system , it moved west @-@ northwest and organized into a tropical depression on October 15 , then a tropical storm later in the day . Late on October 16 , Forrest intensified into a typhoon . The next day , the typhoon reached its peak intensity of 100 knots (190 km / h) and passed near the island of Agrihan where one building was left standing and communications were eliminated . Forrest then recurved south @-@ southeast of Iwo Jima . As winds aloft increased out of the west , Forrest slowly weakened , becoming a tropical storm once more on October 20 and evolving into an extratropical cyclone by October 21 .

= = = Tropical Storm Georgia (Ruping) = = =

First noted as a tropical disturbance east of Ulithi within the monsoon trough on October 14 , the system moved north of due west . Slowly developing , the system evolved into a tropical depression on October 17 and tropical storm on October 18 . The cyclone reached its peak intensity before it crossed the central Philippines on October 19 and emerged into the South China sea . On October 22 , Georgia made landfall across Vietnam and crossed Laos into Thailand . The system subsequently dissipated by October 23 .

= = = Tropical Depression Susang = = =

= = = Severe Tropical Storm Herbert (Tering) = = =

Forming as a tropical disturbance near the International Dateline on October 29 , the system moved westward at low latitude eventually organizing into a tropical depression on November 3 south of Guam . The system moved north of due west across the central Philippines and emerged into the South China sea before strengthening into a tropical storm on November 9 . Herbert moved westward , making landfall in Vietnam on November 11 before dissipating in Laos on November 12 .

= = = Severe Tropical Storm Ida (Uding) = = =

Initially a tropical disturbance between Kosrae and Enewetak on November 6 , the system moved south of west until November 9 , when the system began tracking north of west . The system organized into a tropical depression on November 10 , then tropical storm on November 11 , while moving towards the Philippines . Six days after Herbert , Ida crossed the central portion of the archipelago between November 12 and 13 . Interaction with the islands weakened the system back into a tropical depression before emerging into the South China sea . Strengthening back into a

tropical storm on November 14 , Ida transcribed an anticyclonic , or clockwise , loop , weakening back into a tropical depression on November 16 while moving to the south due to strong southwest winds aloft . The depression moved south @-@ southwest before dissipating on November 19 . Two died when a cargo ship sank near Dongsha .

= = = Typhoon Joe (Weling) = = =

The initial tropical disturbance formed on November 12 south of Guam . Moving west @-@ northwest , the system organized into a tropical depression in the Philippine Sea on November 17 , and then a tropical storm on November 20 . Joe recurved just east of the Philippines due to a weakness in the subtropical ridge , strengthening into a typhoon on November 20 . East of Taiwan , Joe weakened back into a tropical storm due to strong southwest winds aloft on November 23 and then a tropical depression on November 24 . Turning southeast , the remaining low level circulation continued weakening , dissipating on November 25 .

= = = November Tropical Depression = = =

A tropical depression formed in the southern South China sea on November 24 , dissipating the following day without making landfall on any neighbouring land mass . This depression was acknowledged by the Hong Kong Royal Observatory in their year end summary .

= = = Super Typhoon Kim (Yaning) = = =

The initial tropical disturbance formed south of Majuro on November 27 . The small system developed quickly , becoming a tropical depression later that day , a tropical storm on November 28 , and a typhoon on November 29 . Kim turned northwest later the day due to a weakness in the subtropical ridge , before a strengthening high pressure system to its north forced a more westerly track by December 2 , with Kim becoming a super typhoon soon afterward . The cyclone moved just north of Saipan , knocking out all electricity and water . Damage on the island totalled US $ 15 million (1986 dollars) . Retaining super typhoon intensity into December 3 , the system weakened and turned northwest on December 4 due to another weakness in the subtropical ridge . The high pressure system to its north restrengthened , turning Kim back to the west on December 5 . On December 8 , Kim made a cyclonic , or counter clockwise , loop due to a strong surface high building to its north , which was completed on December 11 . During the loop , Kim weakened back into a tropical storm , with tropical depression status regained by December 12 as Kim moved northwest . The system recurved east of Taiwan , dissipating by December 14 .

= = = Severe Tropical Storm Lex = = =

The initial tropical disturbance formed on November 30 in the wake of Kim near the International Dateline . The system moved west @-@ northwest , developing into a tropical depression and tropical storm on December 4 . Lex remained a tropical storm for one day , before weakening back into a tropical disturbance on December 5 due to vertical wind shear caused by Typhoon Kim and an upper trough nearby from the northwest . The depression passed between Guam and Saipan on December 7 . Lex recurved south of Iwo Jima on December 8 before becoming an extratropical cyclone on December 9 .

= = = Typhoon Marge (Aning) = = =

A long tracked system , the initial tropical disturbance which led to Marge was noted near the International Dateline on December 10 . Moving north of due west the disturbance was slow to organize , becoming a tropical depression on December 14 southwest of Enewetak . The system strengthened into a tropical storm on December 15 , and a typhoon by December 17 . Early on

December 20 , Marge peaked in intensity before turning south of due west due to a strong surface high to its north . On December 21 , Marge moved into the southern Philippines which accelerated its weakening trend . On December 22 , Marge regained tropical storm status and soon after moving into the South China sea , the cyclone weakened into a tropical depression late on December 23 . The depression moved westward for another day before dissipating on December 24 . Marge 's circulation aided the global journey of the Rutan Voyager aircraft , which went on to circle the Earth on one tank of fuel .

= = = Typhoon Norris (Bidang) = = =

The initial tropical disturbance formed near the International Dateline on December 17 , and initially moved west @-@ northwest . The system slowly organized , becoming a tropical depression December 21 , and then a tropical storm on December 23 as it turned more to the west due to a strengthening ridge of high pressure to its north . The cyclone steadily strengthened over the next four days , initially hampered by strong east winds aloft . As the storm moved south of Guam , wind gusts to 50 knots (93 km / h) were recorded on the island . Norris became a typhoon on December 27 . Over the next day and half , intensification continued . On December 28 , a strong surface high pressure system turned Norris to the southwest , and led to slow weakening . The cyclone regained tropical storm strength on December 30 while turning more to the west . Norris crossed the southern Philippines on December 31 and January 1 , weakening into a tropical depression as it emerged into the South China sea . Strong southeast winds aloft prevented redevelopment of the depression . Norris ' remnant circulation turned northwest and dissipated on January 2 well to the south of Hong Kong .

= = Storm names = =

During the season 26 named tropical cyclones developed in the Western Pacific and were named by the Joint Typhoon Warning Center , when it was determined that they had become tropical storms . These names were contributed to a revised list which started on 1979 .

= = = Philippines = = =

The Philippine Atmospheric , Geophysical and Astronomical Services Administration uses its own naming scheme for tropical cyclones in their area of responsibility . PAGASA assigns names to tropical depressions that form within their area of responsibility and any tropical cyclone that might move into their area of responsibility . Should the list of names for a given year prove to be insufficient , names are taken from an auxiliary list , the first 6 of which are published each year before the season starts . Names not retired from this list will be used again in the 1990 season . This is the same list used for the 1982 season . PAGASA uses its own naming scheme that starts in the Filipino alphabet , with names of Filipino female names ending with " ng " (A , B , K , D , etc .) . Names that were not assigned / going to use are marked in gray .