Hurricane Agatha

Current Watches and Warnings

A **Hurricane Warning** is in effect from Salina Cruz to Lagunas de Chacahua, Mexico

A **Hurricane Watch** is in effect from Salina Cruz eastward to Barra De Tonala, Mexico

A **Tropical Storm Warning** is in effect from Salina Cruz eastward to Boca de Pijijiapan; Lagunas de Chacahua westward to Punta Maldonado

Current Details from the National Hurricane Center

COORDINATES: 15.3° north, 97.1° west

LOCATION: 50 miles (80 kilometers) southwest of Puerto Angel, Mexico

MOVEMENT: northeast at 8 mph (13 kph*)*

WINDS: 110 mph (175 kph) with gusts to 130 mph (215 kph)

RADIUS OF TROPICAL STORM-FORCE WINDS: 90 miles (150 kilometers)

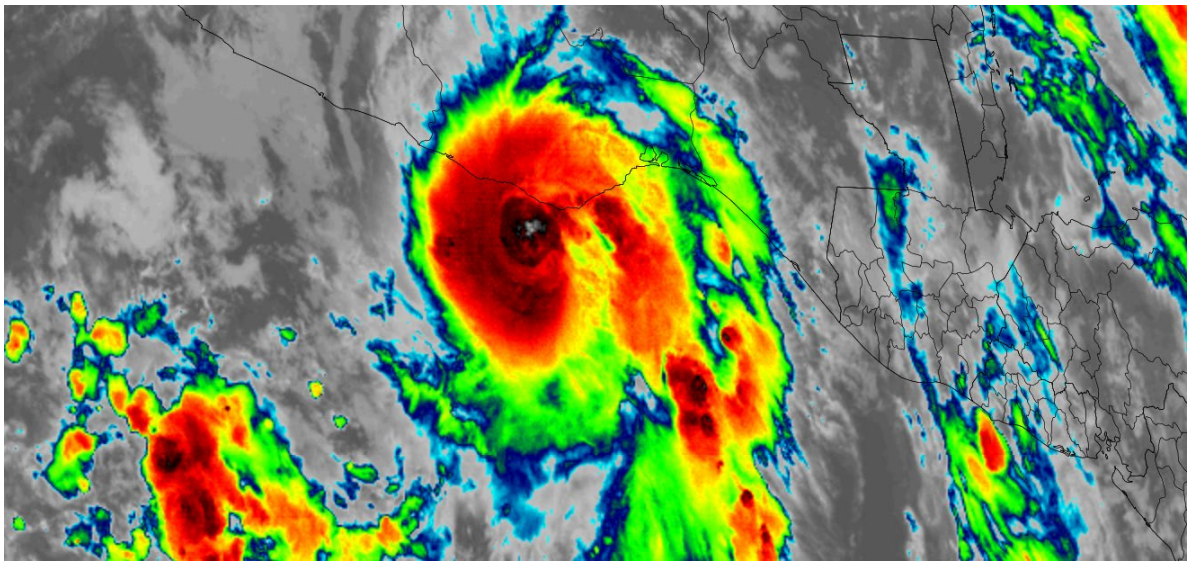
RADIUS OF HURRICANE-FORCE WINDS: 15 miles (30 kilometers)

SAFFIR-SIMPSON SCALE RANKING: Category 2

FORECAST LANDFALL LOCATION: Oaxaca, Mexico

FORECAST LANDFALL TIMEFRAME: Monday afternoon local time (May 30 UTC)

Latest Satellite Imagery



Source: NOAA / NASA / Colorado State University (RAAMB)

Discussion

Hurricane Agatha developed on May 28 and became the first named storm of the 2022 Eastern Pacific Hurricane Season. Presently, outer rain bands continue to spread across southern Mexico as the core of Agatha nears the coast. Conditions will steadily worsen throughout the day in the state of Oaxaca. The satellite presentation of the system has been relatively steady for the past several hours with hints of an eye occasionally appearing within the central dense overcast. Convection remains quite deep and symmetric around the center. Satellite-based Dvorak estimates from have been holding steady, which has convinced the NHC to keep the initial intensity at 110 mph (175 kph) – a Category 2 hurricane on the Saffir Simpson Hurricane Wind Scale. An Air Force Hurricane Hunter aircraft is nearing the system and the collected data will better help assess the strength and structure of Agatha.

Agatha is moving to the northeast, and this motion should take the center of the hurricane to the coast of Oaxaca this afternoon. If Agatha strikes Mexico with at least 100 mph (160 kph) sustained winds, it would be the strongest Eastern Pacific hurricane landfall in the month of May on record dating to 1949. The hurricane is expected to maintain its current intensity until the core reaches the coast later today. After landfall, rapid weakening is forecast, and Agatha will likely dissipate over the rugged terrain of southeastern Mexico by late Tuesday.

It is worth noting that the global forecast models suggest that the mid-level remnants will merge with a broader low-pressure system, which is being monitored for potential development in the Atlantic basin.

Key Messages from the National Hurricane Center

1. Extremely dangerous coastal flooding from storm surge, accompanied by large and destructive waves, is expected near and to the east of where Agatha makes landfall.

2. Life-threatening hurricane-force winds are expected in portions of the hurricane warning area in Oaxaca, Mexico, this afternoon and continuing through this evening. Tropical storm conditions have already begun along the coast of Oaxaca and will spread eastward within the warning area through tonight.

3. Heavy rains associated with Agatha will continue over portions of southern Mexico through Tuesday. This will pose a threat of life-threatening flash flooding and mudslides.

Additional Information

WIND: Hurricane conditions are expected in the Hurricane Warning area and possible in the watch area by this afternoon. Tropical storm conditions have begun along the coast of Oaxaca and will spread eastward within the warning area through the day.

STORM SURGE: Storm surge is expected to produce extremely dangerous coastal flooding in areas of onshore winds near and to the east of where the center of Agatha makes landfall. Near the coast, the surge will be accompanied by large and destructive waves.

RAINFALL: Agatha will produce heavy rains over portions of southern Mexico through Tuesday night. The following rainfall amounts are currently expected:

Mexican state of Oaxaca: 10 to 16 inches, with isolated maximum amounts of 20 inches possible. Life-threatening flash flooding and mudslides may occur.

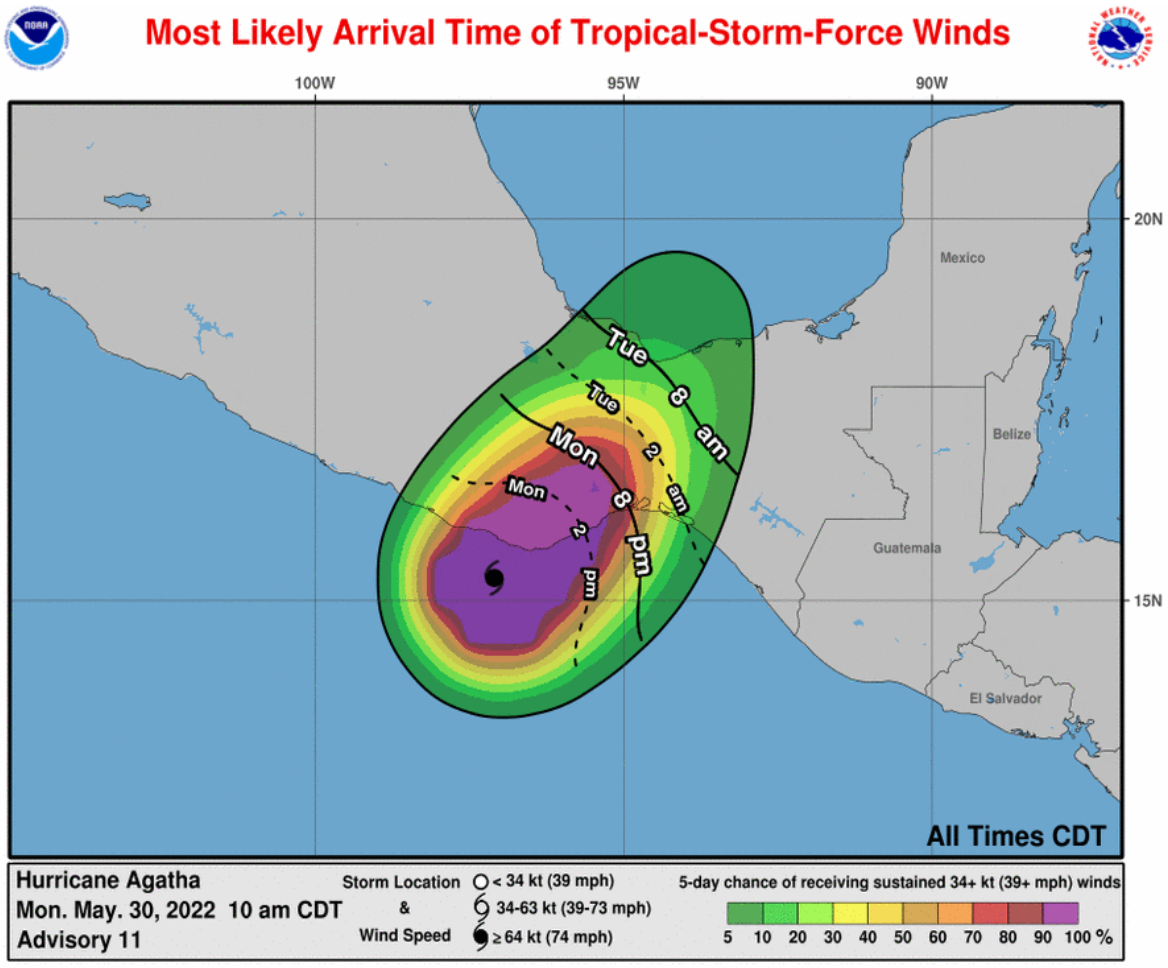
Mexican state of Chiapas: 5 to 10 inches, with isolated maximum amounts of 15 inches possible. Life-threatening flash flooding and mudslides may occur.

Mexican states of Veracruz, Tabasco, and eastern portions of Guerrero: 2 to 4 inches, with isolated maximum amounts of 6 inches possible.

SURF: Large swells generated by Agatha will affect the coast of southern Mexico during the next day or two.

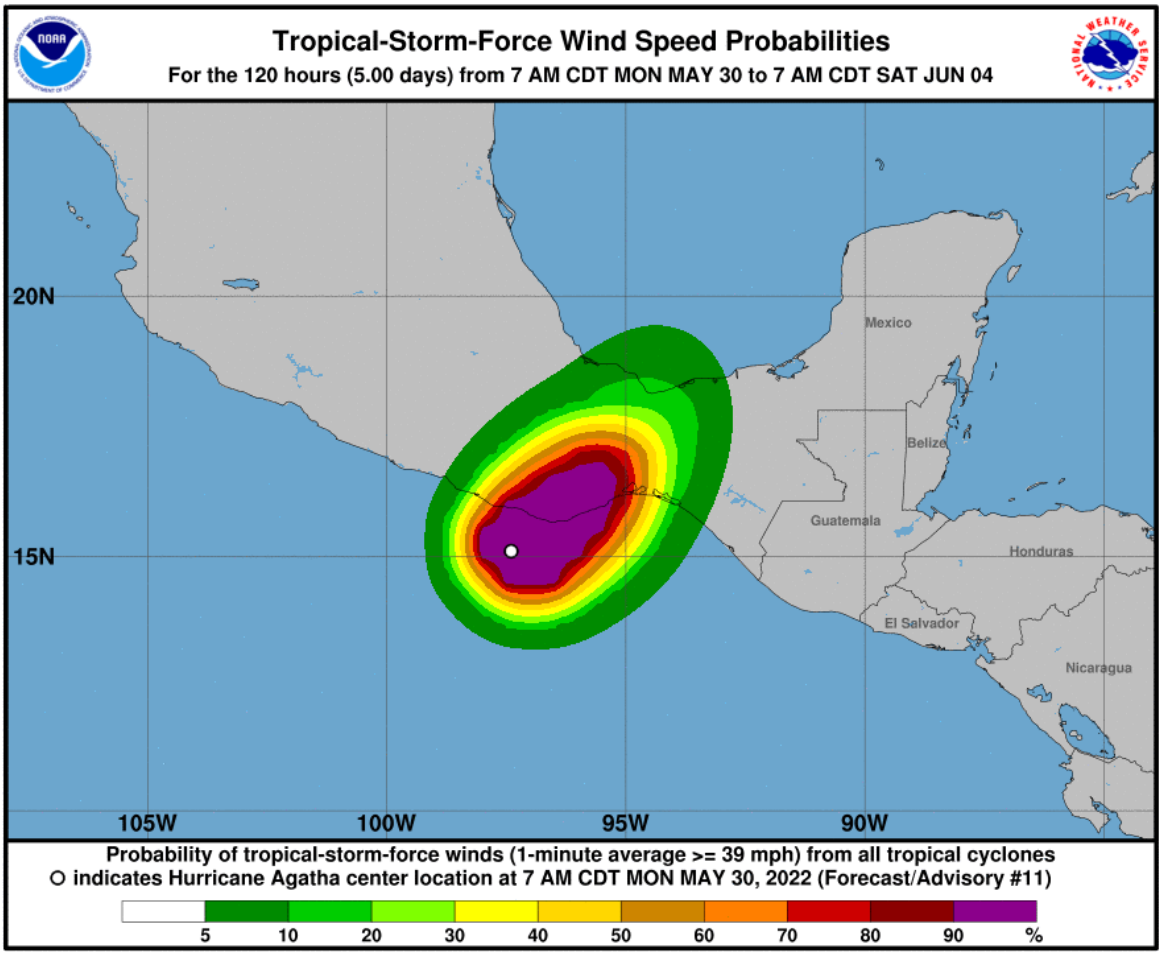
National Hurricane Center Forecast

Most Likely Arrival Time of Tropical Storm-Force Winds

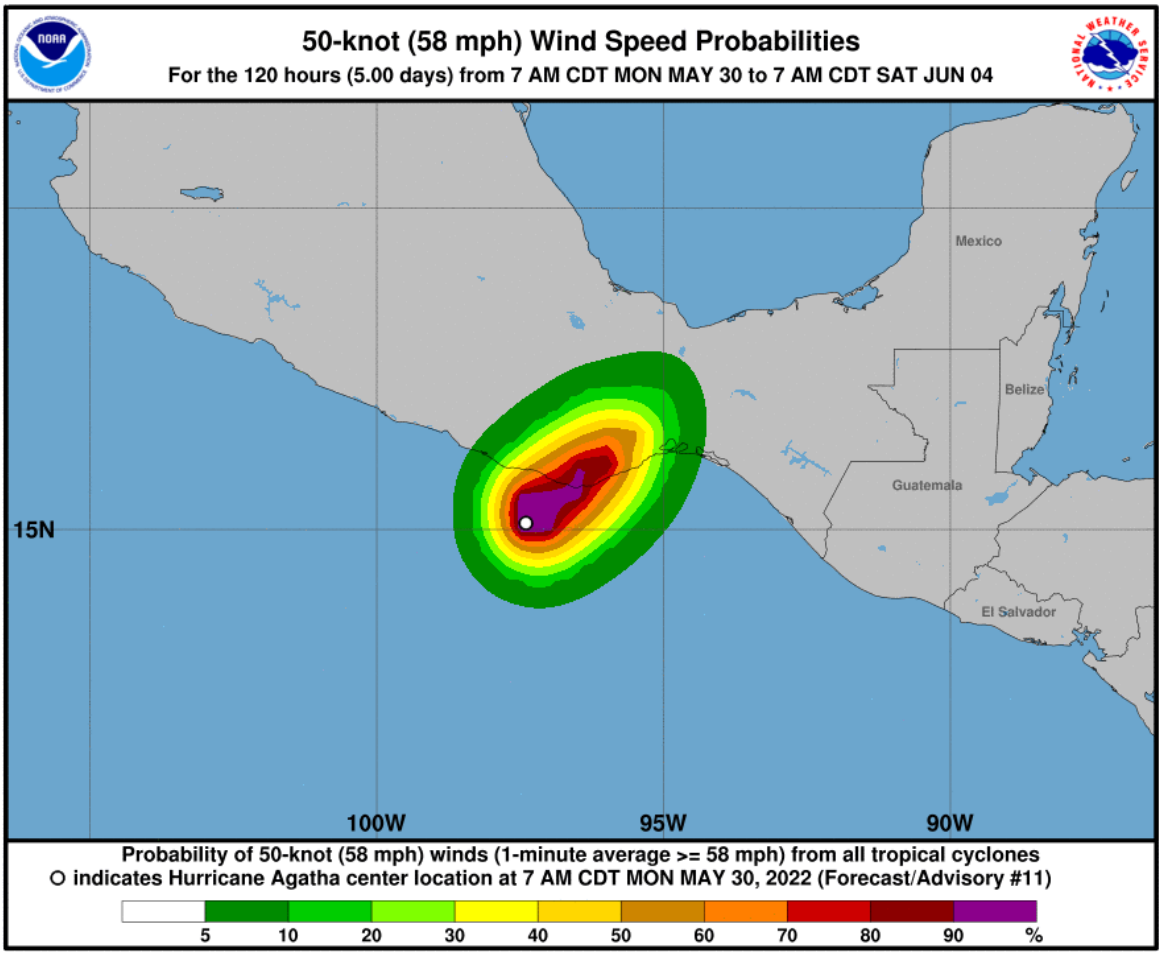


National Hurricane Center: Wind Speed Probabilities

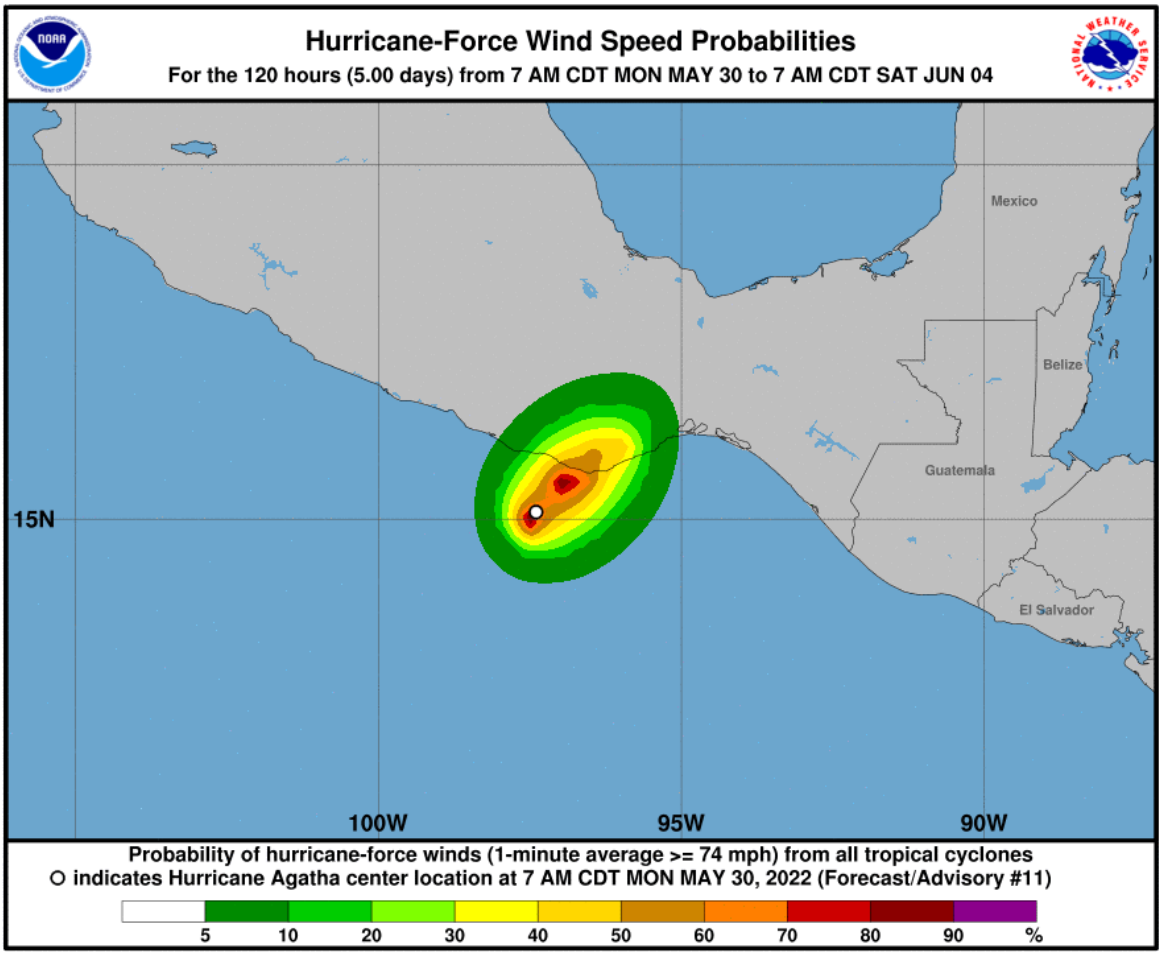
Tropical Storm-Force Wind Probabilities (≥40 mph (65 kph))



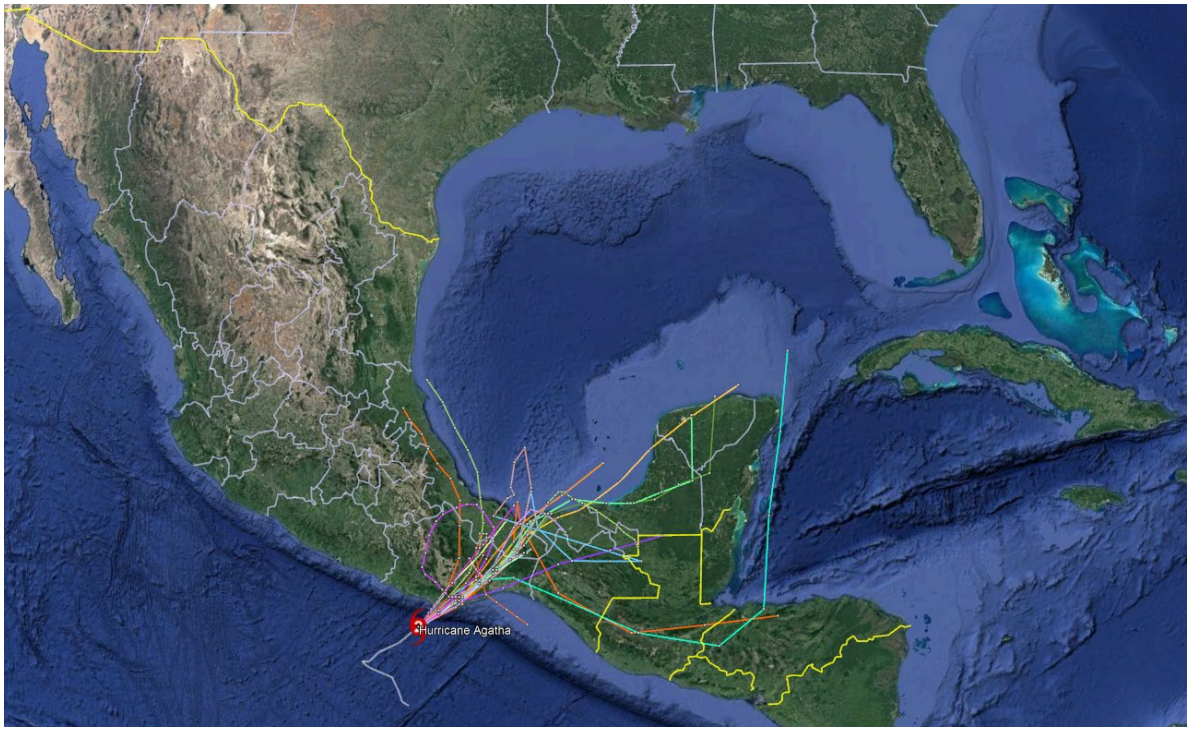
Wind Probabilities (≥60 mph (95 kph))



Hurricane-Force Wind Probabilities (≥75 mph (120 kph))



Current ‘Spaghetti’ Model Output Data



Source: NOAA

Additional Information and Update Schedule

Wind intensity forecasts and forecast track information can be found via the National Hurricane Center at www.nhc.noaa.gov

NEXT CAT ALERT: Since landfall is imminent, this will be the final Cat Alert. Should the remnants of Agatha re-emerge into the Gulf of Mexico and/or Caribbean Sea and show signs of development, new Cat Alerts will be initiated as necessary. It would receive a new name if this were to occur.

Appendix: Tropical Cyclone Intensity Classifications for Global Basins

<table>
<tr><th colspan="3">WIND SPEED</th><th colspan="7">BASINS AND MONITORING BUREAU</th></tr>
<tr><th rowspan="2">KT</th><th rowspan="2">MPH</th><th rowspan="2">KPH</th><th>NE Pacific, Atlantic</th><th>NW Pacific</th><th>NW Pacific</th><th>SW Pacific</th><th>Australia</th><th>SW Indian</th><th>North Indian</th></tr>
<tr><th>National Hurricane Center (NHC)</th><th>Joint Typhoon Warning Center (JTWC)</th><th>Japan Meteorological Agency (JMA)</th><th>Fiji Meteorological Service (FMS)</th><th>Bureau of Meteorology (BOM)</th><th>Meteo-France (MF)</th><th>India Meteorological Department (IMD)</th></tr>
<tr><td>30</td><td>35</td><td>55</td><td>Tropical Depression</td><td>Tropical Depression</td><td>Tropical Depression</td><td>Tropical Depression</td><td>Tropical Low</td><td>Tropical Depression</td><td>Deep Depression</td></tr>
<tr><td>35</td><td>40</td><td>65</td><td rowspan="6">Tropical Storm</td><td rowspan="6">Tropical Storm</td><td rowspan="3">Tropical Storm</td><td rowspan="3">Cat. 1 Tropical Cyclone</td><td rowspan="3">Cat. 1 Tropical Cyclone</td><td rowspan="3">Moderate Tropical Storm</td><td rowspan="3">Cyclonic Storm</td></tr>
<tr><td>40</td><td>45</td><td>75</td></tr>
<tr><td>45</td><td>50</td><td>85</td></tr>
<tr><td>50</td><td>60</td><td>95</td><td rowspan="3">Severe Tropical Storm</td><td rowspan="3">Cat. 2 Tropical Cyclone</td><td rowspan="3">Cat. 2 Tropical Cyclone</td><td rowspan="3">Severe Tropical Storm</td><td rowspan="3">Severe Cyclonic Storm</td></tr>
<tr><td>55</td><td>65</td><td>100</td></tr>
<tr><td>60</td><td>70</td><td>110</td></tr>
<tr><td>65</td><td>75</td><td>120</td><td rowspan="4">Cat. 1 Hurricane</td><td rowspan="11">Typhoon</td><td rowspan="11">Typhoon</td><td rowspan="4">Cat. 3 Severe Tropical Cyclone</td><td rowspan="4">Cat. 3 Severe Tropical Cyclone</td><td rowspan="4">Tropical Cyclone</td><td rowspan="11">Very Severe Cyclonic Storm</td></tr>
<tr><td>70</td><td>80</td><td>130</td></tr>
<tr><td>75</td><td>85</td><td>140</td></tr>
<tr><td>80</td><td>90</td><td>150</td></tr>
<tr><td>85</td><td>100</td><td>160</td><td rowspan="3">Cat. 2 Hurricane</td></tr>
<tr><td>90</td><td>105</td><td>170</td><td rowspan="3">Cat. 4 Severe Tropical Cyclone</td><td rowspan="3">Cat. 4 Severe Tropical Cyclone</td><td rowspan="4">Intense Tropical Cyclone</td></tr>
<tr><td>95</td><td>110</td><td>175</td></tr>
<tr><td>100</td><td>115</td><td>185</td><td rowspan="3">Cat. 3 Major Hurricane</td></tr>
<tr><td>105</td><td>120</td><td>195</td><td rowspan="4">Cat. 5 Severe Tropical Cyclone</td><td rowspan="4">Cat. 5 Severe Tropical Cyclone</td></tr>
<tr><td>110</td><td>125</td><td>205</td></tr>
<tr><td>115</td><td>130</td><td>210</td></tr>
<tr><td>120</td><td>140</td><td>220</td><td rowspan="4">Cat. 4 Major Hurricane</td><td rowspan="5">Super Typhoon</td><td rowspan="4">Very Intense Tropical Cyclone</td><td rowspan="5">Super Cyclonic Storm</td></tr>
<tr><td>125</td><td>145</td><td>230</td></tr>
<tr><td>130</td><td>150</td><td>240</td></tr>
<tr><td>135</td><td>155</td><td>250</td></tr>
<tr><td>140</td><td>160</td><td>260</td><td rowspan="2">Cat. 5 Major Hurricane</td></tr>
<tr><td>>140</td><td>>160</td><td>>260</td></tr>
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