Mexico | Tropical cyclone activity

European Commission

Recent tropical cyclone activity in Mexico

RACHEL
27 Sep – 11 Oct

POLO
21-30 Sep

Impact overview
Source: UN OCHA, PAHO #1, #2, LaJornada
RACHEL 9 Fatalities
POLO 5 Fatalities

Past rainfall accumulation
21 Sep – 11 Oct
Source: NASA GPM (satellite observation)
251-500 mm
101-250 mm
26-100 mm
5-25 mm

RACHEL track *Source: NOAA*
POLO track *Source: NOAA*
Maximum flood extent 21 Sep – 11 Oct *Source: Copernicus EMS Glofas GFM*

Potentially exposed population in Mexico
Source: GDACS, JRC
to **wind** ≥ 63 km/h
332 800

Wind buffer
Source: GDACS, HWRF model #1, #2
Max intensity
179-300 km/h (Cat. 3-5)
119-178 km/h (Cat. 1-2)
63-118 km/h (Tropical storm)

Potentially exposed population in Mexico
Source: GDACS, JRC
to **rainfall** > 100 mm
~ 1.59 million

21 Oct 6:00 UTC 41 km/h
20 Oct 0:00 UTC 43 km/h
18 Oct 6:00 UTC 67 km/h
17 Oct 12:00 UTC 56 km/h
16 Oct 6:00 UTC 52 km/h
15 Oct 12:00 UTC 87 km/h
21 Oct 6:00 UTC 50 km/h
19 Oct 6:00 UTC 85 km/h
11 Oct 12:00 UTC 300 km/h
18 Oct 0:00 UTC 191 km/h
17 Oct 12:00 UTC 163 km/h
9 Oct 00:00 UTC 119 km/h
7 Oct 18:00 UTC 68 km/h
16 Oct 6:00 UTC 126 km/h

135.0 / 93.8
96.8 / 78.5
144.6 / 136.7
127.8 / 169.7

Tropical cyclone*
Source: GDACS, HWRF model #1, #2
Past track — SIMON — TRUDY
Forecast track - - - SIMON - - - TRUDY
Current position
119-300 km/h Hurricane Cat. 1-5
63-118 km/h Tropical storm
<63 km/h Tropical depression
GDACS orange alert

Total rainfall accumulation
7–16 Oct
Source: GDACS, HWRF model #1, #2
501-886 mm
251-500 mm
101-250 mm
26-100 mm
5-25 mm

Community advisory
Source: NOAA
Hurricane watch
Tropical storm warning

Rainfall value (mm)
Source: HWRF model, WMO (normals)
7-16 Oct model
Oct climate normal 1991-2020

Meteorological station
Meteorologically induced max water level** (m) forecast 16-19 Oct *Source: JRC, ECMWF model*
Densely populated area *Source: Copernicus EMS GHSL*
State boundary
Country boundary

*The speed in the boxes represents the sustained winds.
**Storm surges plus waves. The vertical reference level is the mean sea level (1986-2005 reference period).

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0 300 km