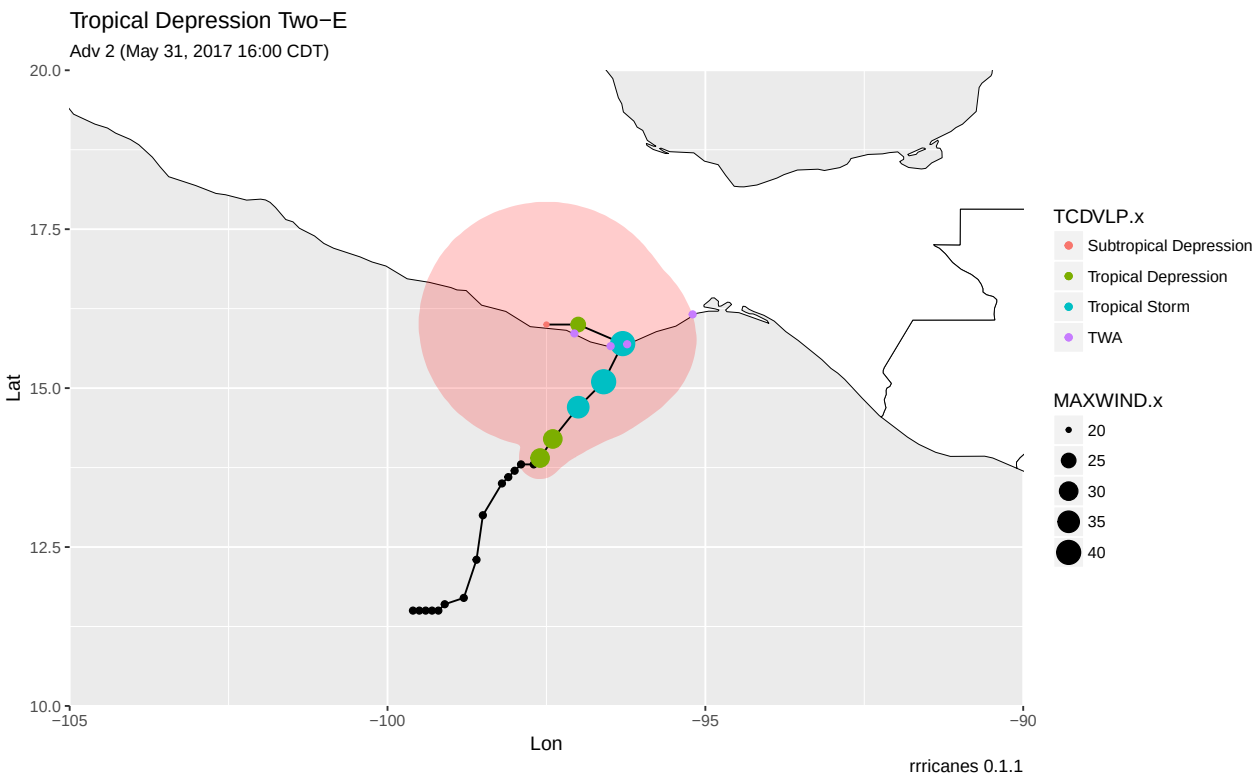
Tropical Depression Two-E

Tim Trice

Wed May 31, 2017 17:04

Current



Past Advisories

Status	Adv	Date	Wind	Gust	Pressure	Eye
Tropical Depression	1	2017-05-31 15:00:00	25	35	1007	NA
Tropical Depression	2	2017-05-31 21:00:00	30	40	1006	NA

Forecast

FcstDate	Lat	Lon	Wind	Gust	Category
2017-06-01 06:00:00	14.2	-97.4	30	40	TD
2017-06-01 18:00:00	14.7	-97.0	35	45	TS
2017-06-02 06:00:00	15.1	-96.6	40	50	TS
2017-06-02 18:00:00	15.7	-96.3	40	50	TS
2017-06-03 18:00:00	16.0	-97.0	25	35	TD
2017-06-04 18:00:00	16.0	-97.5	20	30	TD

FcstDate	Lat	Lon	Wind	Gust	Category
NA	NA	NA	NA	NA	NA

Storm Discussion

ZCZC MIATCDEP2 ALL TTAA00 KNHC DDHHMM

Tropical Depression Two-E Discussion Number 2 NWS National Hurricane Center Miami FL EP022017 400 PM CDT Wed May 31 2017

The convective cloud pattern of the depression has improved a little during the past several hours. However, partial ASCAT overpasses and visible satellite imagery suggest the circulation is elongated east-to-west with the center likely near the western edge of the central convective mass. Satellite intensity estimates from TAFB and SAB have increased to 30 kt, so that will be the initial intensity.

The cyclone has been moving erratically, with the initial motion a somewhat uncertain 045/2. A mid- to upper-level trough seen in water vapor imagery over northern Mexico is expected to steer the cyclone slowly northeastward for the next 36-48 h. After that, there is still divergence between the models on whether the cyclone, or its remnants, will continue northeastward over Mexico or stall near or south of the Mexican coast. A major change since the previous advisory is that the ECMWF now calls for the system to move northeastward and make landfall in Mexico in about 24 h, which is faster than some of the other models. However, the UKMET and the UK Ensemble mean still show a westward turn after 36 h or so. Given the change in the ECMWF, the new track forecast is shifted north of the previous track and now calls for the center to move onto the Mexican coast in 36-48 h. Additional changes in the forecast track may be needed tonight if current model trends continue.

The intensity forecast is low confidence. The environment of moderate shear and warm water should allow gradual strengthening. This is reflected in the intensity guidance and forecast, which call for the system to become a tropical storm in about 24 h. However, the current structure and the possibility of land interaction should limit intensification, and an alternative scenario based on the faster ECMWF landfall is that the system does not become a tropical storm before reaching the Mexican coast. The new forecast track requires significant changes in the latter part of the intensity forecast, which now calls for the cyclone to dissipate by 120 h due to passage over Mexico. It should be noted that if the center moves farther inland than currently forecast it should result in earlier dissipation.

Heavy rains and freshwater flooding are likely to be the biggest threats from this system even if it makes landfall as a tropical storm. A Tropical Storm Warning could be required for portions of the coast of Mexico tonight.

FORECAST POSITIONS AND MAX WINDS

INIT 31/2100Z 13.9N 97.6W 30 KT 35 MPH 12H 01/0600Z 14.2N 97.4W 30 KT 35 MPH 24H 01/1800Z 14.7N 97.0W 35 KT 40 MPH 36H 02/0600Z 15.1N 96.6W 40 KT 45 MPH 48H 02/1800Z 15.7N 96.3W 40 KT 45 MPH...INLAND 72H 03/1800Z 16.0N 97.0W 25 KT 30 MPH...INLAND 96H 04/1800Z 16.0N 97.5W 20 KT 25 MPH...POST-TROP/REMNT LOW 120H 05/1800Z...DISSIPATED

$$ Forecaster Beven

NNNN