Tropical Cyclone Report
Tropical Depression Eight-E
(EP082010)
20-21 August 2010

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24 January 2011

Tropical Depression Eight-E remained at sea during its brief lifetime.

The genesis of Eight-E can be traced back to a tropical wave that moved off the west coast of Africa on 3 August. An area of disturbed weather formed within the wave over the east-central tropical Atlantic on 6 August, and this disturbance nearly developed into a tropical cyclone as it moved generally northwestward over the next few days. The wave itself continued westward across the Atlantic basin, producing only a few showers. The system crossed Central America on 15 August, and the associated deep convection increased as the wave moved just to the south of Mexico over the next several days. By early on 20 August, convection became better organized near a low-level circulation center. It is estimated that a tropical depression formed by 0600 UTC 20 August, centered about 160 n mi west-southwest of Manzanillo, Mexico. Scatterometer data indicated that the intensity of the system was around 30 kt.

A mid-level ridge over northwestern Mexico caused the depression to move west-northwestward. Meanwhile, strong northeasterly shear kept the tropical cyclone from strengthening. Early on 21 August the depression was moving over cooler waters, and its estimated maximum winds decreased to 25 kt. After 1200 UTC that day, the system was essentially devoid of deep convection and therefore degenerated into a remnant low. The low moved slowly west-northwestward to westward and dissipated early on 23 August.

The "best track" chart of the depression's path is given in Fig. 1, and the best track positions and intensities are listed in Table 1[1].

There were no reports of damage or casualties associated with Eight-E.

This tropical cyclone's formation was not well anticipated. The area of disturbed weather that developed into Tropical Depression Eight-E was introduced into the Tropical Weather Outlook only 6 h prior to genesis with a 48-h formation probability of 20 percent.

[1] A digital record of the complete best track can be found on line at ftp://ftp.nhc.noaa.gov/atcf. Data for the current year's storms are located in the *btk* directory, while previous years' data are located in the *archive* directory.

Table 1. Best track for Tropical Depression Eight-E, 20-21 August 2010.

Date/Time (UTC)	Latitude (°N)	Longitude (°W)	Pressure (mb)	Wind Speed (kt)	Stage
20 / 0600	18.2	107.2	1004	30	tropical depression
20 / 1200	18.8	107.8	1004	30	"
20 / 1800	19.3	108.7	1003	30	"
21 / 0000	19.9	109.7	1004	30	"
21 / 0600	20.2	110.5	1005	25	"
21 / 1200	20.4	111.1	1005	25	"
21 / 1800	20.7	111.7	1005	25	low
22 / 0000	21.0	112.3	1005	25	"
22 / 0600	21.3	113.0	1007	25	"
22 / 1200	21.4	113.6	1008	20	"
22 / 1800	21.5	114.2	1009	20	"
23 / 0000	21.5	114.8	1010	20	"
23 / 0600					dissipated
20 / 1800	19.3	108.7	1003	30	minimum pressure

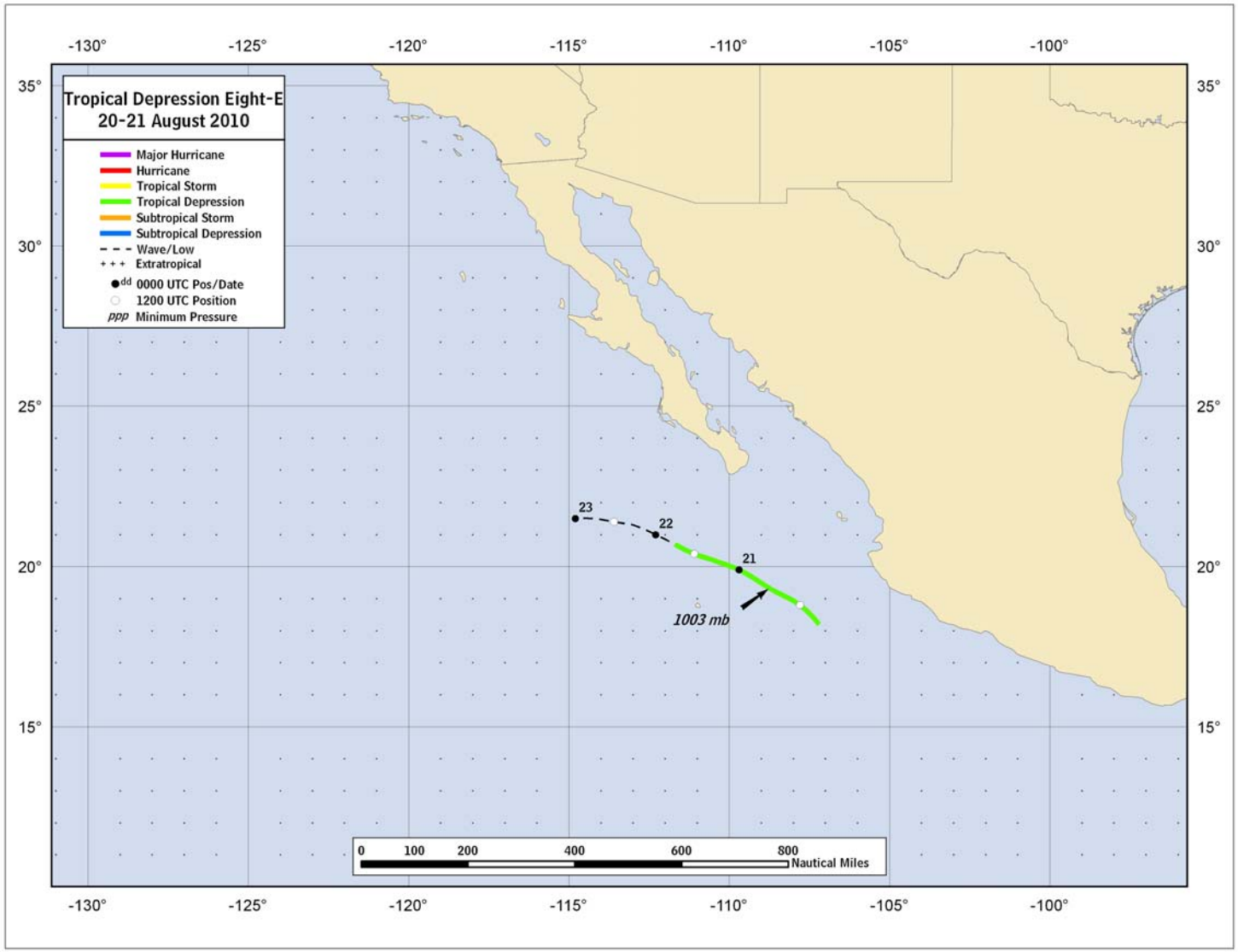

Figure 1. Best track positions for Tropical Depression Eight-E, 20-21 August 2010.