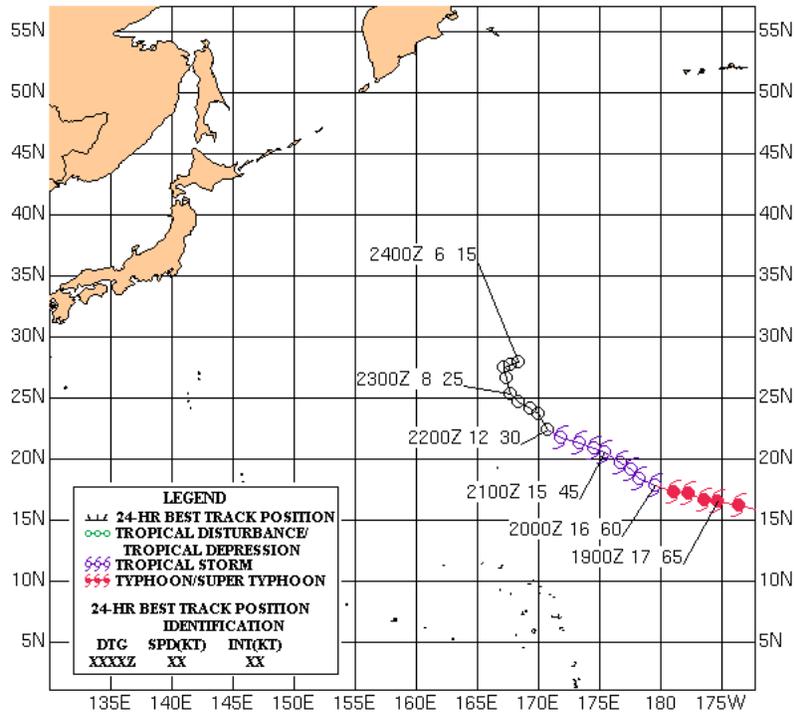


# Hurricane Dora (07E)

The disturbance that developed into Hurricane Dora (07E) formed in the eastern Pacific Ocean, west of Nicaragua, early in August 1999. The National Hurricane Center issued the first warning on Tropical Depression 07E at 060000Z after a ship report of 30 kt associated with the disturbance. Over a period of nearly three weeks this tropical cyclone would develop into an intense hurricane (120 kt) and travel more than five thousand miles across the Pacific Ocean before dissipating over open water.

After the first warning, this cyclone intensified for several days and developed a symmetric eye on 9 August. For over a week thereafter a strong mid-latitude anticyclone anchored over the central Pacific steered Hurricane Dora almost directly westward at an average speed of 14 knots. Hurricane Dora passed roughly 200 miles south of Hawaii island (Figure 1-07E-2). The forecast track and associated storm surge caused the evacuation of Johnston Atoll, however it passed 65 miles south of the atoll without causing significant damage.

Hurricane Dora crossed 180 degrees longitude and was downgraded to a tropical storm (50 kt) on Joint Typhoon Warning Center's first warning at 201500Z August. The system began gaining latitude and continued to weaken due to increasing vertical wind shear. JTWC issued the 70th and final warning at 230900Z August.



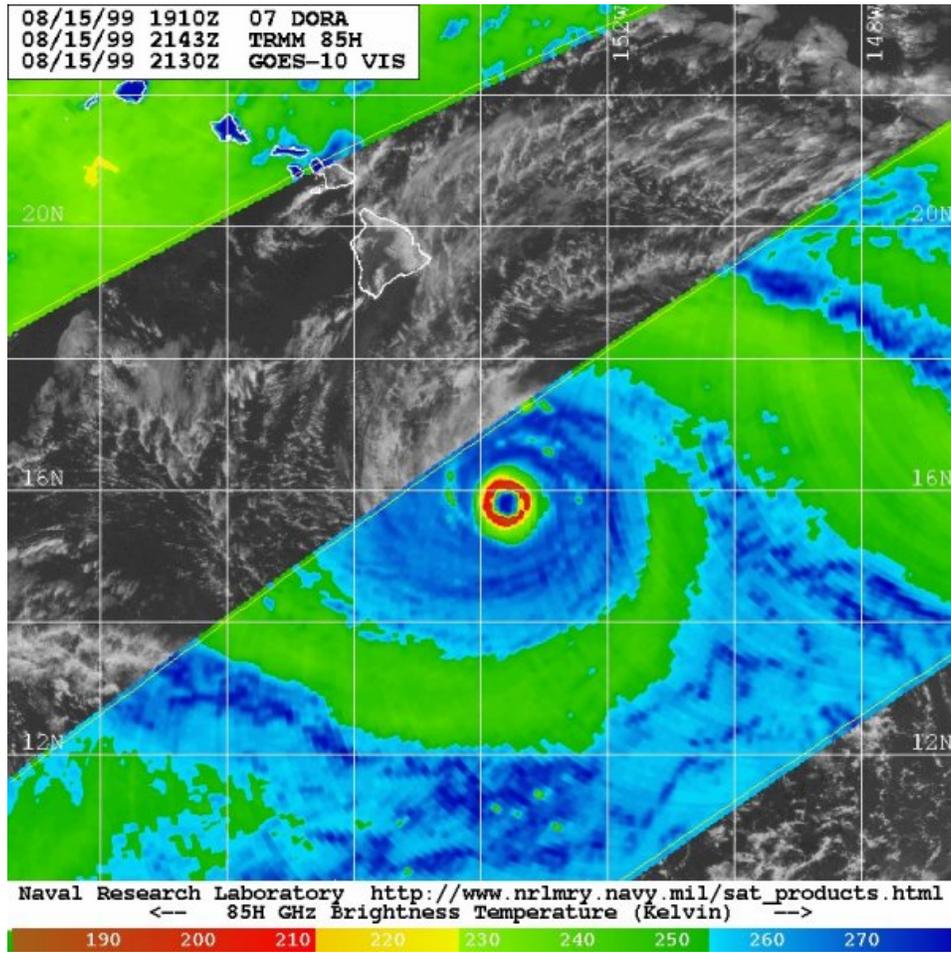


Figure 1-07E-1. 152143Z August Tropical Rainfall Measuring Mission (TRMM) microwave image overlaid on 152130Z August GOES- 10 visible satellite imagery created by the Naval Research Laboratory (NRL). Of note is the extremely intense eye-wall feature. Hurricane Dora passed south of the Island of Hawaii with a max intensity of 100 kt.

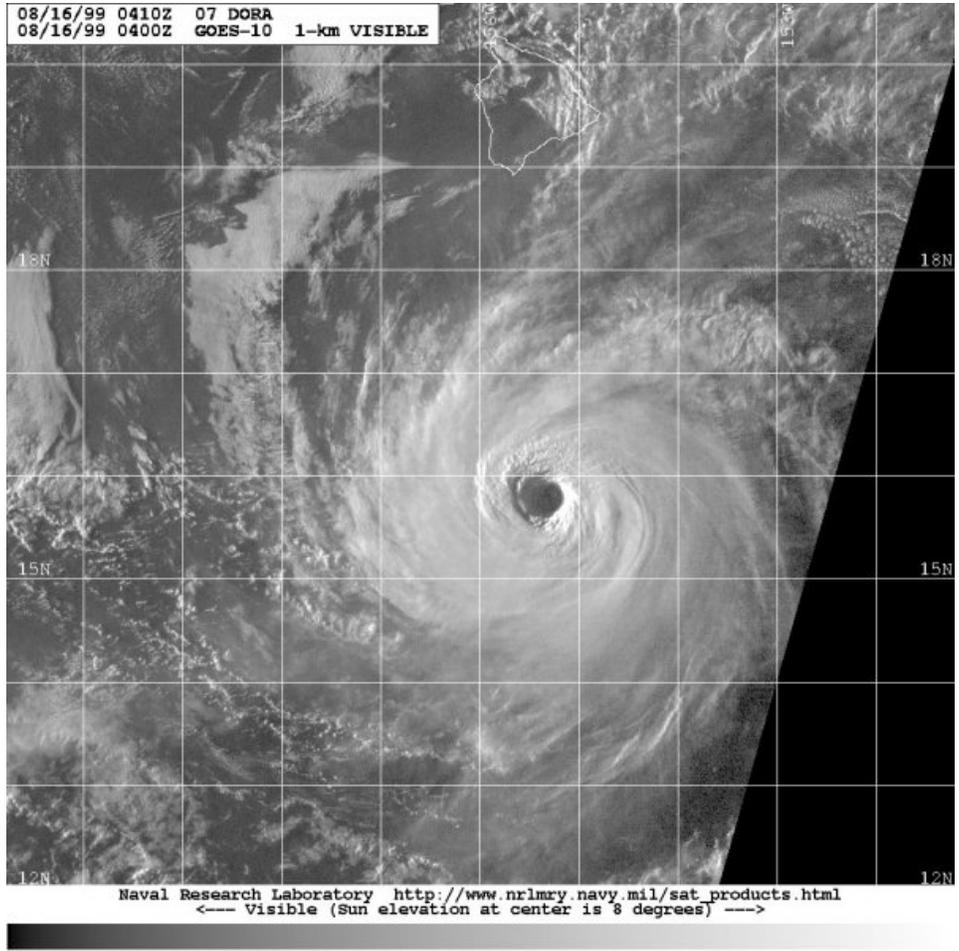


Figure 1-07E-2. 160400Z August GOES-10 visible satellite imagery showing the well-defined eye of Hurricane Dora as it passed south of the Island of Hawaii with an intensity of 100 kt. The system went on to pass 65 nm to the south of Johnston Atoll, but caused no significant damage.