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U.S. Weather Bureau.

Hurricane Debra, September 21-24, 1963.
Preliminary report with advisories and bulletins issued.

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U. S. DEPARTMENT OF COMMERCE

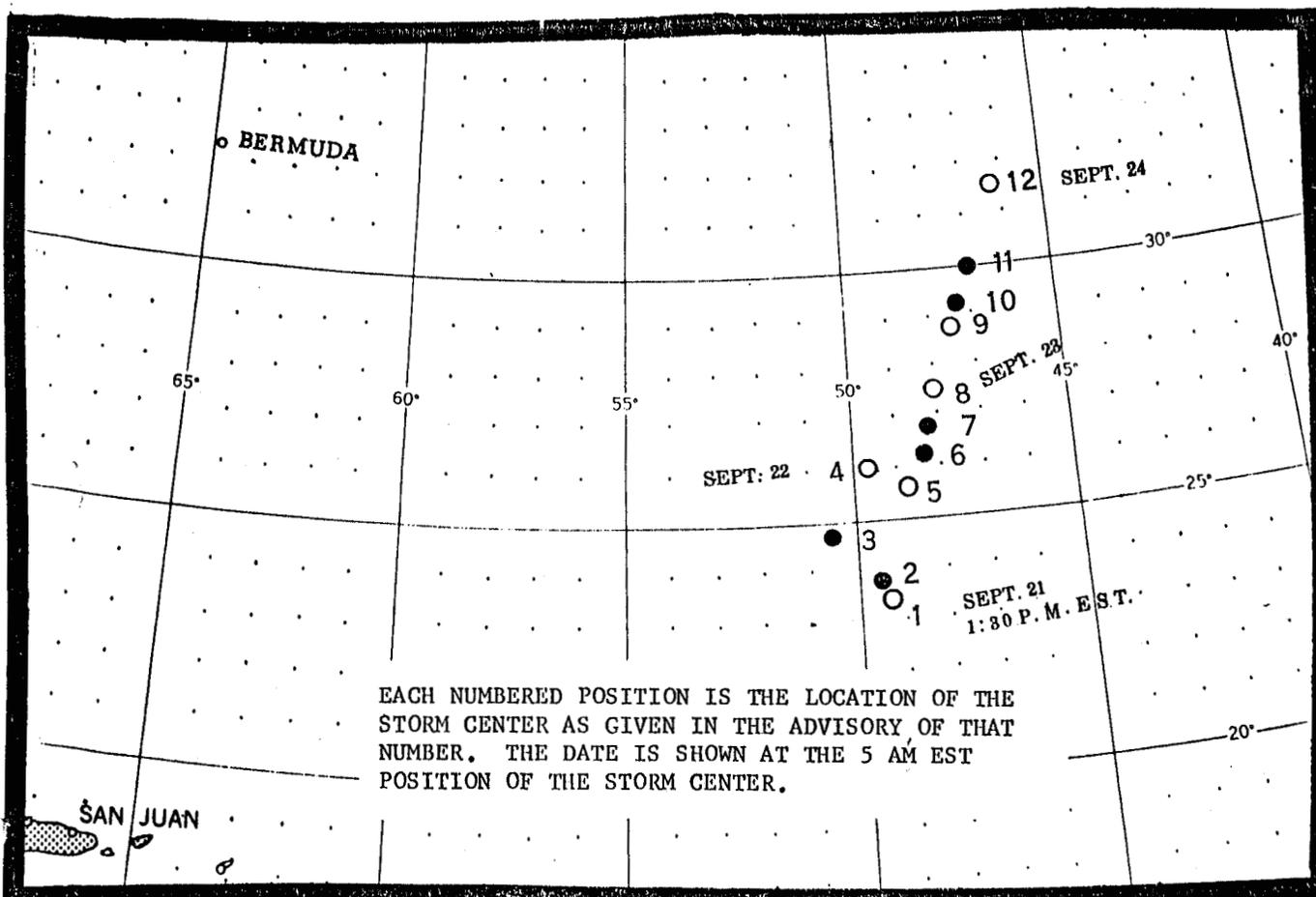
U. S. WEATHER BUREAU



HURRICANE DEBRA

SEPTEMBER 21-24, 1963

Preliminary Report with Advisories and Bulletins Issued



EACH NUMBERED POSITION IS THE LOCATION OF THE STORM CENTER AS GIVEN IN THE ADVISORY OF THAT NUMBER. THE DATE IS SHOWN AT THE 5 AM EST POSITION OF THE STORM CENTER.

National Oceanic and Atmospheric Administration Weather Bureau Hurricane Series

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PRELIMINARY REPORT

HURRICANE "DEBRA" -- SEPTEMBER 21-24, 1963

The fourth hurricane of the 1963 season, named "DEBRA", was comparatively small and weak and did not pose a threat to any land area during its existence. It formed in the southwestern North Atlantic and reached hurricane intensity about 1150 miles east northeast of San Juan, Puerto Rico on September 21. It moved slowly north-northeastward over the open ocean. On September 23, it began to weaken and on the 24th began to be absorbed into the circulation of a large Atlantic storm southeast of Newfoundland.

Highest winds in this hurricane were about 75 miles per hour in a small area near the center.

In its formative stages this storm was observed by aircraft, ships and TIROS satellite. It was subsequently tracked by Navy Hurricane Hunter Aircraft based in Puerto Rico and by Air Force reconnaissance aircraft based in Bermuda.

No damage from this hurricane has been reported.

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 1 DEBRA 130 PM EST SATURDAY 21 SEPTEMBER 1963

THE UNSETTLED AREA IN THE MID TROPICAL ATLANTIC WHICH HAS BEEN UNDER OBSERVATION DURING THE PAST SEVERAL DAYS BY THE WEATHER SATELLITE COMMA SHIPS AND PLANES HAS NOW ATTAINED HURRICANE INTENSITY. HOWEVER IT IS STILL SMALL IN AREA AND BARELY OF HURRICANE INTENSITY.

AT 130 PM EST...1830Z...THE HURRICANE CENTER WAS LOCATED NEAR LATITUDE 23.3 NORTH LONGITUDE 49.2 WEST OR ABOUT 1150 STATUTE MILES EAST NORTHEAST OF SAN JUAN PUERTO RICO. IT IS MOVING TOWARD THE NORTH NORTHWEST AT 14 MPH.

HIGHEST WINDS REPORTED BY RECONNAISSANCE AIRCRAFT ARE 75 MPH IN SQUALLS OVER A SMALL AREA NEAR THE CENTER. GALE WINDS EXTEND OUTWARD 125 STATUTE MILES IN THE NORTHEASTERN SEMICIRCLE AND 65 MILES TO THE SOUTHWEST.

A GRADUAL INCREASE IN SIZE AND INTENSITY IS EXPECTED DURING THE NEXT 12 HOURS AS THE HURRICANE MOVES TOWARD THE NORTH NORTHWEST AT ABOUT THE SAME SPEED.

THE HURRICANE IS NO THREAT TO ANY LAND AREA FOR THE NEXT SEVERAL DAYS.

SHIPS IN THE PATH OF HURRICANE DEBRA SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY ON HURRICANE DEBRA WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 PM EST.

DUNN

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 2 DEBRA 5 PM EST SATURDAY 21 SEPTEMBER 1963

AT 5 PM EST...2200Z...THE CENTER OF HURRICANE DEBRA WAS ESTIMATED NEAR LATITUDE 23.8 NORTH LONGITUDE 49.6 WEST OR ABOUT 1150 STATUTE MILES EAST NORTHEAST OF SAN JUAN PUERTO RICO. IT IS MOVING TOWARD THE NORTH NORTHWEST AT 14 MPH.

DEBRA COVERS A COMPARATIVELY SMALL AREA AND IS BARELY OF HURRICANE INTENSITY. HIGHEST WINDS ARE 75 MPH IN SQUALLS OVER A SMALL AREA NEAR THE CENTER. GALE WINDS EXTEND OUTWARD 125 STATUTE MILES IN ALL DIRECTIONS EXCEPT 65 MILES IN THE SOUTHWEST QUADRANT.

A GRADUAL INCREASE IN SIZE AND INTENSITY IS EXPECTED DURING THE NEXT 12 HOURS AS THE HURRICANE CONTINUES TOWARD THE NORTH NORTHWEST AT ABOUT THE SAME SPEED OR SLIGHTLY SLOWER.

THE HURRICANE POSES NO THREAT TO ANY LAND AREA FOR THE NEXT 48 HOURS.

SHIPS IN THE PATH OF THE HURRICANE SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY ON HURRICANE DEBRA WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 11 PM EST.

DUNN

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 3 DEBRA 11 PM EST 21 SEPTEMBER 1963

AT 11 PM EST...0400Z...HURRICANE DEBRA WAS CENTERED NEAR LATITUDE 24.8 NORTH LONGITUDE 50.4 WEST OR ABOUT 1120 STATUTE MILES EAST NORTHEAST OF SAN JUAN PUERTO RICO MOVING TOWARDS THE NORTHWEST AT ABOUT 14 MPH.

DEBRA IS BARELY OF HURRICANE FORCE AND COVERS A COMPARATIVELY SMALL AREA. HIGHEST WINDS ARE 75 MPH IN SQUALLS NEAR THE CENTER. GALES EXTEND OUTWARD 125 STATUTE MILES IN ALL DIRECTIONS EXCEPT 65 MILES TO THE SOUTHWEST OF THE CENTER.

A SLOW INCREASE IN SIZE AND INTENSITY IS INDICATED DURING THE NEXT 12 HOURS. THE HURRICANE IS EXPECTED TO CONTINUE TOWARD THE NORTHWEST AT ABOUT THE SAME SPEED OR SLIGHTLY SLOWER. IT POSES NO THREAT TO ANY LAND AREA DURING THE NEXT 48 HOURS.

SHIPPING IN THE PROJECTED PATH OF THE HURRICANE SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY ON DEBRA WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 AM EST.

MOORE

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 4 DEBRA 5 AM EST SUNDAY 22 SEPTEMBER 1963

SHIP REPORTS INDICATE THAT HURRICANE DEBRA WAS CENTERED NEAR LATITUDE 26.0 NORTH LONGITUDE 49.5 WEST OR ABOUT 1000 STATUTE MILES EAST SOUTHEAST OF BERMUDA AT 5 AM EST...2000Z.

HIGHEST WINDS ARE ESTIMATED 75 MPH NEAR THE CENTER AND GALES EXTEND OUTWARD 125 STATUTE MILES EAST AND NORTH OF THE CENTER AND 65 MILES TO THE SOUTHWEST.

LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED DURING THE NEXT 24 HOURS AS DEBRA CONTINUES NORTHWARD ABOUT 12 MPH.

THE HURRICANE POSES NO THREAT TO ANY LAND AREAS IN THE NEAR FUTURE BUT SHIPPING SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY ON DEBRA WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 11 AM EST.

FRANK

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 5 DEBRA 11 AM EST SUNDAY SEPTEMBER 22 1963

RECONNAISSANCE AIRCRAFT INDICATE THAT HURRICANE DEBRA WAS CENTERED NEAR LATITUDE 25.7 NORTH LONGITUDE 48.8 WEST AT 11 AM EST...1600Z...THIS POSITION IS SOMEWHAT TO THE SOUTHEAST OF THE PREVIOUSLY ESTIMATED POSITION AND SHOWS THAT THE HURRICANE HAS BEEN MOVING ON A NORTHERLY COURSE ABOUT 7 MPH SINCE IT WAS PENETRATED BY AIRCRAFT SATURDAY. THE CURRENT POSITION IS 1050 STATUTE MILES SOUTHEAST OF BERMUDA.

HIGHEST WINDS ARE ESTIMATED NEAR 75 MPH NEAR THE CENTER WITH GALES EXTENDING OUTWARD 125 MILES EAST AND NORTH AND 65 MILES TO THE SOUTHWEST EXCEPT SOME GALES IN SQUALLS ARE LIKELY 250 MILES IN THE NORTHEAST QUADRANT.

DEBRA IS FORECAST TO CONTINUE ON A NORTHERLY COURSE OF 7 MPH DURING THE NEXT 12 HOURS WITH A VERY GRADUAL TURN TOWARD THE NORTH NORTHEAST AND A SLIGHT INCREASE IN FORWARD SPEED LATE TONIGHT AND EARLY MONDAY. NO INCREASE IN SIZE OR INTENSITY IS FORECAST.

THE HURRICANE POSES NO THREAT TO ANY LAND AREAS IN THE NEAR FUTURE BUT SHIPPING SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 PM EST...2200Z.

SUGG.

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 6 DEBRA 5 PM EST SUNDAY SEPTEMBER 22 1963

SHIP REPORTS AND RECONNAISSANCE AIRCRAFT SHOW THAT HURRICANE DEBRA IS DRIFTING VERY SLOWLY TOWARDS THE NORTH NORTHEAST AND AT 5 PM EST...2200Z...WAS CENTERED NEAR LATITUDE 26.1N LONGITUDE 48.2W OR ABOUT 1075 STATUTE MILES SOUTHEAST OF BERMUDA.

HIGHEST WINDS ARE ESTIMATED 75 MPH NEAR THE CENTER WITH GALES EXTENDING OUTWARD ABOUT 200 MILES IN THE NORTHEAST SEMICIRCLE AND 100 MILES TO THE SOUTHWEST.

DEBRA WILL MOVE ON A NORTH TO NORTH NORTHEAST COURSE AROUND 7 MPH TONIGHT WITH A VERY GRADUAL TURN TOWARD THE NORTHEAST AND A SLIGHT INCREASE IN FORWARD SPEED ON MONDAY. LITTLE CHANGE IN SIZE OR INTENSITY IS INDICATED.

SEAS OF 22 TO 29 FEET HAVE BEEN REPORTED NEAR THE CENTER OF THE HURRICANE. THE LOWEST SEA LEVEL PRESSURE TODAY WAS 999 MILLIBARS OR 29.50 INCHES.

THE HURRICANE POSES NO THREAT TO ANYLAND AREAS BUT SHIPPING SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 11 PM EST.

SUGG

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 7 DEBRA 11 PM EST SUNDAY SEPTEMBER 22 1963

VERY LITTLE INFORMATION HAS BEEN RECEIVED FROM THE VICINITY OF HURRICANE DEBRA TONIGHT. AT 11 PM EST...0400Z...THE ESTIMATED POSITION OF THE CENTER WAS NEAR LATITUDE 26.8N LONGITUDE 48.1W OR ABOUT 1060 STATUTE MILES EAST SOUTHEAST OF BERMUDA. INDICATIONS ARE THAT DEBRA IS MOVING TOWARD THE NORTH NORTHEAST AT ABOUT 8 MPH.

HIGHEST WINDS ARE ESTIMATED 75 MPH NEAR THE CENTER WITH GALES EXTENDING OUTWARD 200 MILES IN THE NORTHEAST SEMICIRCLE AND 100 MILES TO THE SOUTHWEST.

THE HURRICANE IS FORECAST TO CONTINUE TOWARD THE NORTH NORTHEAST AT ABOUT 8 MPH FOR THE NEXT 12 HOURS WITH A GRADUAL TURN TOWARD THE NORTHEAST AND A SLIGHT INCREASE IN RATE OF FORWARD MOVEMENT THEREAFTER. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED.

DEBRA POSES NO THREAT TO LAND AREAS BUT SHIPPING SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 AM EST MONDAY.

MOORE

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 8 DEBRA 5 AM EST MONDAY SEPTEMBER 23 1963

LITTLE INFORMATION WAS RECEIVED FROM THE VICINITY OF HURRICANE DEBRA DURING THE NIGHT. AT 1000Z THE CENTER WAS ESTIMATED NEAR LATITUDE 27.7 NORTH LONGITUDE 48.0 WEST.

HIGHEST WINDS ARE 65 KNOTS NEAR THE CENTER WITH GALES EXTENDING OUTWARD 200 MILES IN THE NORTHEAST SEMICIRCLE AND 100 MILES TO THE SOUTHWEST.

DEBRA IS FORECAST TO CONTINUE NORTH NORTHEASTWARD ABOUT 7 KNOTS FOR THE NEXT 12 HOURS THEN GRADUALLY TURN TOWARDS THE NORTHEAST AND SLOWLY ACCELERATE. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED.

SHIPPING SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 1600Z MONDAY.

FRANK

MIAMI WEATHER BUREAU HURRICANE ADVISORY NUMBER 9 DEBRA 11 AM EST MONDAY SEPTEMBER 23 1963

REPORTS FROM RECONNAISSANCE AIRCRAFT LOCATE HURRICANE DEBRA AT 11 AM EST...1600Z...NEAR LATITUDE 28.8 NORTH LONGITUDE 47.6 WEST WHICH IS ABOUT 900 NAUTICAL MILES EAST SOUTHEAST OF BERMUDA. THE HURRICANE IS MOVING ON A NORTH NORTHEAST COURSE AT ABOUT 8 KNOTS.

HIGHEST WINDS ARE ESTIMATED AT 65 KNOTS IN A FEW SQUALLS NEAR THE CENTER WITH GALES EXTENDING OUTWARD 200 MILES IN THE NORTHEAST SEMICIRCLE AND 100 MILES TO THE SOUTHWEST.

DEBRA WILL CONTINUE NORTH NORTHEASTWARD AT ABOUT 9 KNOTS FOR THE NEXT 12 HOURS ACCELERATING VERY SLOWLY THEREAFTER. NO INTENSIFICATION IS FORECAST.

SHIPPING IN THE PATH OF THE HURRICANE SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY ON HURRICANE DEBRA WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 2200Z MONDAY.

DUNN

MIAMI WEATHER BUREAU TROPICAL STORM ADVISORY NUMBER 10 DEBRA 5 PM EST SEPTEMBER 23 1963

THE RECONNAISSANCE AIRCRAFT THIS AFTERNOON REPORTS THAT DEBRA HAS LOST SOME INTENSITY AND IS NOW ONLY A TROPICAL STORM. AT 5 PM EST...2200Z...IT WAS LOCATED NEAR LATITUDE 29.2 NORTH AND LONGITUDE 47.3 WEST WHICH IS ABOUT 900 NAUTICAL MILES SLIGHTLY SOUTH OF DUE EAST FROM BERMUDA. THE STORM IS MOVING TOWARD THE NORTH NORTHEAST AT ABOUT 8 KNOTS.

HIGHEST WINDS ARE NOW ESTIMATED AT 50 KNOTS OVER A SMALL AREA NEAR THE CENTER WITH 35 KNOT WINDS EXTENDING OUTWARD 150 MILES IN THE EASTERN SEMICIRCLE AND 60 MILES IN THE WESTERN SEMICIRCLE.

DEBRA WILL CONTINUE NORTH NORTHEASTWARD AT ABOUT 8 KNOTS DURING THE NEXT 12 HOURS WITH SOME FURTHER DECREASE IN INTENSITY LIKELY BY TOMORROW FORENOON.

THE STORM IS NO THREAT TO ANY LAND AREA. SHIPPING IN THE PATH OF THE STORM SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY ON TROPICAL STORM DEBRA WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 0400Z TUESDAY.

DUNN

MIAMI WEATHER BUREAU TROPICAL STORM ADVISORY NUMBER 11 DEBRA 11 PM EST SEPTEMBER 23 1963

SHIP REPORTS ON THE OUTSKIRTS OF TROPICAL STORM DEBRA INDICATE THAT IT IS CENTERED NEAR LATITUDE 30.0N LONGITUDE 47.0W AT 11 PM EST...0400Z...THIS POSITION IS ABOUT 900 NAUTICAL MILES SLIGHTLY SOUTH OF DUE EAST FROM BERMUDA. DEBRA IS MOVING TOWARD THE NORTH NORTHEAST AT ABOUT 8 KNOTS.

HIGHEST WINDS ARE ESTIMATED 50 KNOTS IN SQUALLS OVER A SMALL AREA NEAR THE CENTER. GALES EXTEND OUTWARD 150 MILES IN THE EASTERN SEMICIRCLE AND 60 MILES IN THE WESTERN SEMICIRCLE.

THE STORM IS EXPECTED TO CONTINUE TOWARD THE NORTH NORTHEAST AT ABOUT 8 KNOTS DURING THE NEXT 12 HOURS WITH A GRADUAL INCREASE IN FORWARD SPEED IN THE SAME DIRECTION THEREAFTER. SOME DECREASE IN HIGHEST WINDS NEAR THE CENTER IS LIKELY TUESDAY AS DEBRA BEGINS TO MERGE WITH THE CIRCULATION OF A LARGE NOW TROPICAL LOW PRESSURE AREA.

SHIPPING IN THE PATH OF THE STORM SHOULD EXERCISE CAUTION.

THE NEXT ADVISORY ON DEBRA WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 AM EST...1000Z... TUESDAY.

MOORE

MIAMI WEATHER BUREAU TROPICAL STORM ADVISORY NUMBER 12 DEBRA 5 AM EST SEPTEMBER 24 1963

AT 1000Z...5 AM EST...DEBRA WAS ESTIMATED NEAR LATITUDE 31.5 NORTH LONGITUDE 46.2 WEST. IT IS BEING ABSORBED BY AN INTENSE WINTER TYPE STORM TO THE NORTHWEST.

HIGHEST WINDS ARE ESTIMATED 50 KNOTS IN SQUALLS OVER A SMALL AREA NEAR THE CENTER. GALES FROM THE OTHER STORM WILL SOON ENCOMPASS DEBRA.

THIS IS THE LAST ADVISORY SINCE DEBRA WILL WEAKEN AND MOVE RAPIDLY NORTHEASTWARD UNDER THE INFLUENCE OF THE LARGE WINTER TYPE STORM.

FRANK