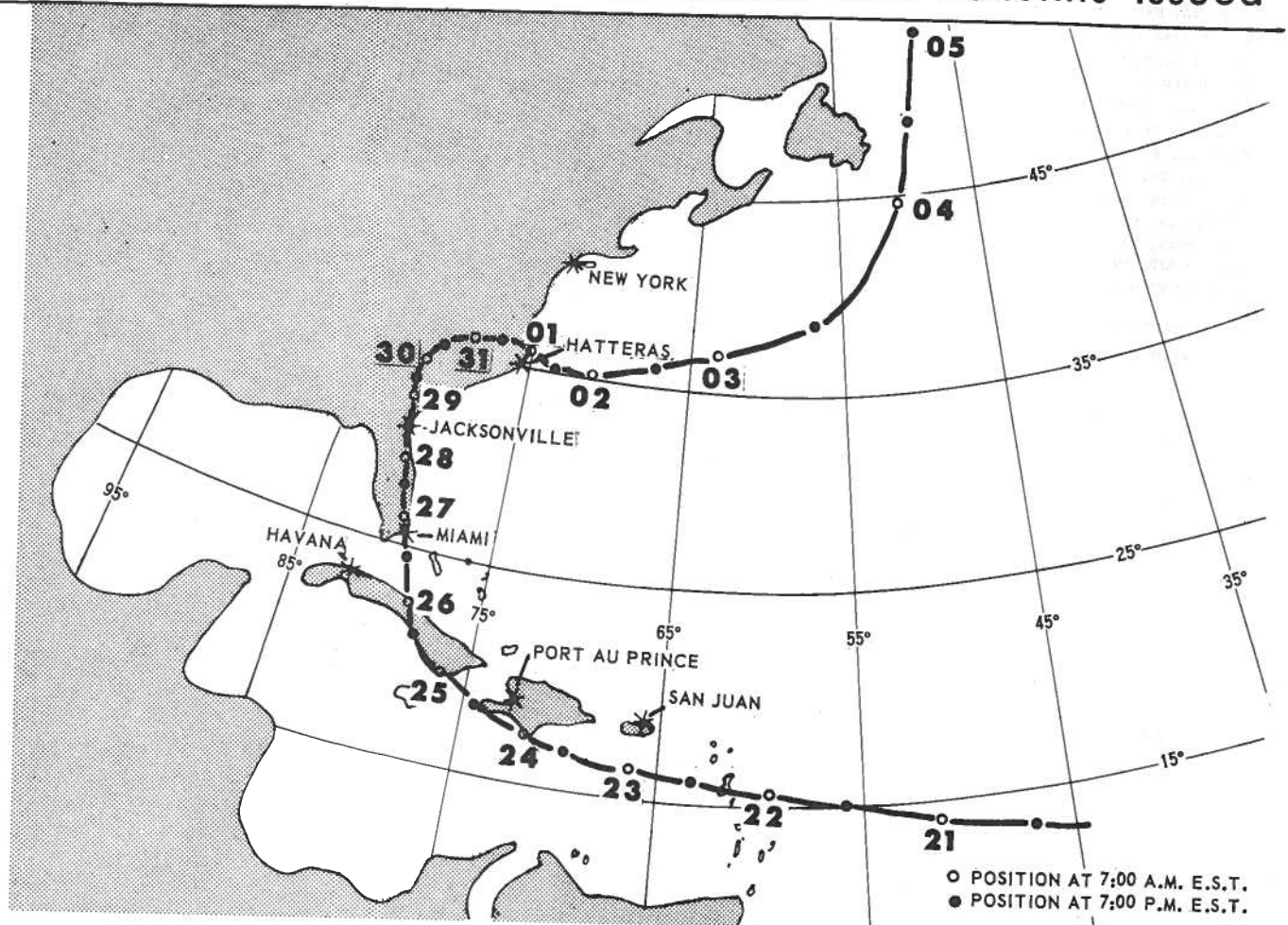


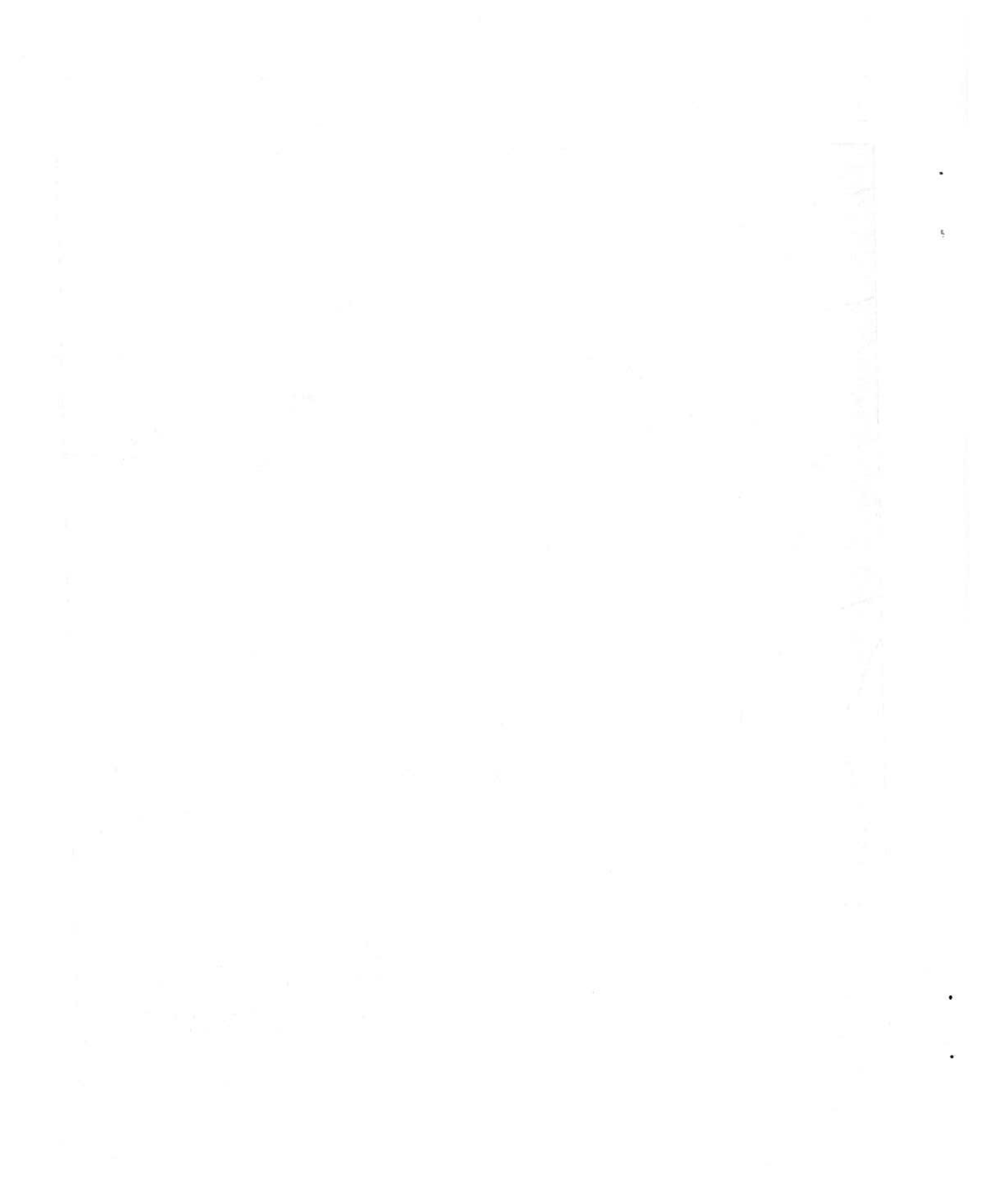
U. S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

HURRICANE CLEO

AUGUST 20 - SEPTEMBER 4, 1964

Preliminary Report with Advisories and Bulletins Issued





PRELIMINARY REPORT ON HURRICANE "CLEO" AUGUST 20 - SEPTEMBER 5, 1964.

The Hurricane Center in San Juan reports that the disturbance in which Cleo later formed, appears to have moved off the African coast south of Dakar as a 1010 mb low, accompanied by continuous rain and thundershowers, on August 15. Later a Tiros 8 photograph at 1544Z August 18 showed a cloud mass 7-12°N and 32-37°W centered near Latitude 10°N and Longitude 34°W. At 1800Z the same date, the German ship LICHTENSTEIN reported a light east wind, continuous rain and pressure of 1008.9 mb or 29.79 in. at 12°N, 33.5°W. From this area the disturbance moved westnorthwestward about 16 mph until located by reconnaissance aircraft on the 20th.

At 0100E on August 20, a ship report (name unknown) was received indicating the existence of a circulation. A navy reconnaissance plane that afternoon found a tropical cyclone at Latitude 13.2°N Longitude 44.5°W in a very early stage of development with minimum pressure of 1006 mb, 29.71 in., and a few squalls up to 35 mph.

The next day the central pressure had deepened to 993 mb or 29.32 in., and winds had reached hurricane force. The hurricane moved rapidly westnorthwestward during the next several days at the unusually rapid rate (for these latitudes) of 20 to 25 mph and steadily intensified.

Hurricane Cleo reached the Leeward Islands early in the afternoon of August 22. The center crossed the island of Marie Galante at 1137E and the southern tip of Guadeloupe near the city of Basse-terre at 1240E. At Raizet Airport, about fifteen miles north of the eye, minimum pressure was 1003 mb, 29.62 in., and the highest wind 44 mph with gusts to 81.

Preliminary official reports from Guadeloupe indicate 14 dead, 40 injured, the banana crop ruined, one thousand homes destroyed and extensive damage to roofs, roads and communication lines.

The hurricane passed about 90 miles south of St. Croix, V. I., at midnight, August 23, and 83 miles south of Cabo Rojo on the southwestern tip of Puerto Rico at 1300E the same day. Highest observed winds were 50 mph at Ham Bluff, St. Croix, and 52 mph at Point Tuna, Puerto Rico, although Cleo had intensified with central pressure of 950 mb, 28.05 in., and winds had increased to 140 mph. The hurricane remained small and concentrated and destructive winds were confined to a small area near the eye. At flight level the Weather Bureau research aircraft measured 132 kt or 152 mph. A Navy hurricane hunter plane was badly damaged on this date and seven crewmen injured. It was estimated that on leaving the eye and entering the wall cloud, the wind increased by 90 mph within a distance of one mile. No penetration was made of this dangerous hurricane on the 24th and its maximum intensity on this date is unknown.

Cleo passed south of the Dominican Republic early on the 24th with its closest approach about 30 miles south of Isla Beata, just off the Barahona Peninsula at 0600E. Seven lives were reported lost in the Dominican Republic but information available at this time on property damage is incomplete. As Hurricane Cleo passed south of Haiti on August 24, it veered northward momentarily, enough to move on to the southwest peninsula. The hurricane entered land just east of the city of Les Cayes. Within a short time the hurricane reached the slopes of the Massif de la Hotte. During the next few hours the movement of Cleo was obscure. Mr. Michel A. Frère, WMO representative in Haiti, believes she continued northwestward and reached the north coast of the peninsula near Roseaux. Evidence from reconnaissance aircraft would indicate the greatly diffused center turned westward along the southern slopes of the mountain range and eventually passed out into the Caribbean over the western tip of the peninsula. Damage in Haiti was considerable and 132 persons were killed. There was heavy destruction of buildings and houses in the area from Les Cayes eastward about twenty miles and eighteen miles inland toward the northwest.

Cleo never regained her former intensity. However, as a minimal hurricane, it passed over a narrow peninsula of Cuba, east of Cabo Cruz and thence into the Golfo de Guacanayabo. The center remained a short distance off the south coast of Cuba until it again re-entered the coast near Longitude 79°W. Cleo probably was of less than hurricane intensity during her journey directly across Cuba until she emerged on the north coast east of Caibarien around 0700E on the 27th. During her passage directly across Cuba, the storm did not pass close to any regular observing station and no wind in excess of 15 to 20 mph was reported. Damage in Cuba was not serious with only one casualty reported.

Shortly after emerging from the north coast of Cuba, Cleo regained hurricane intensity and then moved on a mildly zigzag course northnorthwest to north toward the lower east coast of Florida. Beginning at 1030E, Hurricane Cleo was under constant radar surveillance by the Miami and Key West radars and later by the Tampa and Daytona Beach radars. By mid day, the hurricane had intensified with maximum winds of 85 mph and minimum pressure around 29.06 in. Throughout the afternoon and evening, instrumented Research Flight Facility aircraft repeatedly crisscrossed through the storm including the center, and at flight level found no winds of hurricane force in the western semicircle and the central pressure stable at around 29.06 in.

At 0200E, August 27, the edge of the eye moved onto Key Biscayne. Cleo was the first hurricane to strike the greater Miami area with full force since October 17, 1950 and indeed, the tracks from Cuba to the greater Miami area of the two hurricanes were very similar. The lowest barometer reading in Florida was 28.57 in. in North Miami. It is estimated that maximum sustained winds were in the 100-105 mph range with gusts to 135 mph. It is certain that Cleo intensified very rapidly in the three hours between the time the aircraft left the storm and when the eye reached Key Biscayne and several hours later passed through North Miami. In the western semicircle, winds increased from less than hurricane force to 100 mph or more and the central pressure fell more than 5/10 of an inch. This may be explained by (a) the fact that the temperature of the shallow water between the western edge of the Gulf Stream and the coast is even higher than that of the warm Gulf Stream, 86-90° vs 83°, and (b) as the portion of the hurricane circulation over land increased, the inflow toward the center also increases with resultant increased lift and increase of the latent heat of condensation.

As the hurricane moved along the lower east coast of Florida, the eye continually expanded and contracted from a minimum diameter of eight miles to a maximum of sixteen. It consistently would move northnorthwest for a number of hours and then northward for a number of hours. The longest central calm was one hour and twenty-five minutes.

The major damage from the hurricane was felt in a rather relatively narrow strip 20 to 35 miles wide along the east Florida coast from Miami to about Melbourne. Although the geometric center of the eye apparently passed over Virginia Key and reached the west side of Biscayne Bay at about the 36th Street Causeway, damage was minor at nearby Perrine and Homestead, and west of Bird Road and 90th Avenue. Storm intensity north of Melbourne was such that only minor damage resulted. There were only isolated reports of local flooding anywhere in the state. The storm surge did not reach four feet in the Miami area but was five feet above normal in Fort Lauderdale, and five to six feet above normal at Pompano Beach. There was no serious tidal damage reported anywhere in the state. Even in Dade and Broward Counties, little structural damage to buildings resulted. In these counties the principal damage was glass breakage in unprotected store fronts, Miami Beach hotels and motels, and other unprotected glass. Many Miami Beach hotels and motels suffered water damage after the windows gave away. Principal damages in Florida, in addition to glass and water, were uprooted trees, disrupted communications and power failures in the southern sections, sand blasted buildings and automobiles, overturned parked aircraft, and the agricultural losses. Early estimates indicate about 10% of the oranges and 20 to 30% of the grapefruit were lost in the Indian River citrus producing area, with the greatest loss in the southern sections. Total citrus damage is estimated at \$9,000,000. Total damage from Hurricane Cleo in Florida to property is estimated at \$112,500,000. Apparently these figures do not include other direct or indirect losses such as cleanup of debris which would amount to several million dollars. It is believed that direct and indirect costs would total about \$125,000,000.

A bulletin was issued at noon EST the day before the hurricane advising that boats along the lower east coast of Florida be taken to safety, and a formal hurricane warning was hoisted at 2 p.m. EST. There was no loss of life nor any serious injury from Cleo in Florida, and damage to small craft was minimal.

After leaving Florida between St. Augustine and Jacksonville, the center remained out to sea a short time and then re-entered the coastline near Savannah without much increase in intensity. It continued on as a weakening tropical cyclone through the interior of the Carolinas passing out to sea again near Norfolk where it gave record breaking precipitation.

Nine or more tornadoes were reported in connection with Cleo in Florida and the Carolinas. There was evidence of a tornado in the Davie area of Broward County, Fla., with a path 1/4 mile wide and 1/2 mile long. In one 100-acre grove, 2400 out of 6000 trees were uprooted. In this small area tree loss ranged from 5 to 40% and grapefruit loss of 85%, navel oranges 65%, Valencia and other oranges 35%. There were other reports of twisters in Florida but none could be substantiated. A list of probable tornadoes is given below.

Lightning was observed in the wall cloud around the eye. A number of reputable observers reported "greenish" lightning. Whether it was actual lightning or discharges from high tension lines and transformers is not known. During the lull at the National Hurricane Center, with the edge of the wall cloud less than a mile away, flashes were observed in the cloud almost overhead but no thunder could be heard although it was almost normally quiet.

TORNADOES IN CONNECTION WITH HURRICANE CLEO

Date	Time	Area	Injuries	Damage
August 27	1900	Titusville, Fla.		
August 27	2010	New Smyrna Beach, Fla.		
August 28	?	Broward Couty, Fla.	0	Considerable tree and citrus damage.
August 29	0106	James Island, S. C.		\$5000
August 29	0125	Lawton Bluff, S. C.	3	Minor
August 29	1440	Laurinburg, N. C.	15	\$250,000
August 29	?	Unconfirmed - Bethere, S. C.		
August 29	1600	Lake Murray - 14 miles NW of Columbia, S.C.		
August 29	2130	Darlington, S. C.	1	
August 30	0130	Sansbury Crossroads, S. C.		
August 30	0400(approx.)	Laurinburg, N. C.	.	
August 31	1600(approx.)	Bethel, Stokes, Beargrass, N. C.	2	\$90,000

HURRICANE CLEO CASUALTY AND DAMAGE STATISTICS

Location	Deaths	Injuries	Damage
French West Indies	14	40	\$ 50,000,000
Dominican Republic	7		2,000,000
Haiti	132	250	5,000,000
Cuba	1	?	2,000,000
Florida	0	?	125,000,000
Georgia			50,000
South Carolina		1	100,000
North Carolina	0	17	345,000
Virginia	2	*	3,000,000
TOTAL	156	*	\$187,495,000

* Some but number unknown.

SAN JUAN**ADVISORIES AND BULLETINS**

SAN JUAN WEATHER BUREAU BULLETIN FOR PRESS RADIO AND TELEVISION 4:30 PM AST AUGUST 20 1964.

NAVY RECONNAISSANCE AIRCRAFT THIS AFTERNOON FOUND A CIRCULATION IN THE ATLANTIC ABOUT 1000 MILES EAST OF THE LESSER ANTILLES. HIGHEST WINDS ARE ESTIMATED TO BE ABOUT 30 MPH IN SQUALLS.

CONDITIONS APPEAR FAVORABLE FOR A GRADUAL INTENSIFICATION AND AN ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 PM TODAY.

HOOSE

NUMBER 1 6 PM AST AUGUST 20 1964

RECONNAISSANCE AIRCRAFT REPORTS SHOW THAT THE CIRCULATION LOCATED EARLIER THIS AFTERNOON IN THE ATLANTIC HAS DEVELOPED INTO A TROPICAL DEPRESSION. AT 6 PM AST...2200Z...TROPICAL DEPRESSION CLEO WAS CENTERED NEAR LATITUDE 13.2 NORTH LONGITUDE 45.5 WEST OR ABOUT 1450 MILES EASTSOUTHEAST OF SAN JUAN PUERTO RICO. HIGHEST WINDS ARE ABOUT 35 MPH IN SQUALLS OVER A SMALL AREA NEAR THE CENTER.

TROPICAL DEPRESSION CLEO IS MOVING TOWARD THE WESTNORTHWEST ABOUT 16 MPH AND IS EXPECTED TO CONTINUE ON THIS COURSE FOR THE NEXT 12 HOURS. CONDITIONS APPEAR FAVORABLE FOR INTENSIFICATION TO TROPICAL STORM STRENGTH WITHIN THE NEXT 24 HOURS AND A GRADUAL INCREASE IN SIZE IS FORECAST.

THE NEXT ADVISORY ON TROPICAL DEPRESSION CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 MIDNIGHT AST...0400Z.

HOOSE

NUMBER 2 12 MIDNIGHT AUGUST 20 1964

THE DEPRESSION IN THE ATLANTIC HAS INTENSIFIED AND IS NOW OF TROPICAL STORM INTENSITY.

FROM VESSEL REPORTS IN THE VICINITY THIS EVENING TROPICAL STORM CLEO WAS ESTIMATED TO BE LOCATED AT MIDNIGHT AST...0400Z...NEAR LATITUDE 13.5N AND LONGITUDE 47.5W OR ABOUT 1275 MILES EASTSOUTHEAST OF SAN JUAN PUERTO RICO. IT IS MOVING TOWARD THE WEST NORTHWEST AT 18 MPH. HIGHEST WINDS ARE NOW 50 MPH OVER A SMALL AREA NEAR THE CENTER AND GALE FORCE WINDS EXTEND OUTWARD 75 MILES IN THE NORTHERN SEMICIRCLE.

TROPICAL STORM CLEO IS EXPECTED TO CONTINUE MOVING TOWARD THE WESTNORTHWEST AT 18 MPH FOR THE NEXT 12 HOURS WITH A GRADUAL INCREASE IN SIZE AND INTENSITY.

THE NEXT ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 AM AST...1000Z.

FENTON

NUMBER 3 6 AM AST AUGUST 21 1964

FEW REPORTS WERE RECEIVED FROM THE VICINITY OF TROPICAL STORM CLEO DURING THE NIGHT BUT AT 6 AM AST...1000Z...IT WAS ESTIMATED TO BE CENTERED NEAR LATITUDE 14.0N AND LONGITUDE 49.0W OR ABOUT 1160 MILES EASTSOUTHEAST OF SAN JUAN PUERTO RICO. THE STORM IS MOVING TOWARD THE WESTNORTHWEST AT 18 MPH AND IS EXPECTED TO CONTINUE MOVING IN THE SAME DIRECTION AND AT ABOUT THE SAME SPEED FOR THE NEXT 12 HOURS.

HIGHEST WINDS ARE ESTIMATED TO BE 50 MPH OVER A SMALL AREA NEAR THE CENTER. GALE FORCE WINDS EXTEND OUTWARD ABOUT 100 MILES IN THE NORTHERN SEMICIRCLE AND 40 MILES IN THE SOUTHERN SEMICIRCLE. THE STORM IS EXPECTED TO INCREASE IN SIZE AND INTENSITY DURING THE NEXT 12 HOURS.

RECONNAISSANCE AIRCRAFT WILL ARRIVE IN THE STORM AREA WITHIN A FEW HOURS AND PROVIDE ADDITIONAL INFORMATION ON THE STORMS SIZE AND INTENSITY.

THE NEXT ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 NOON AST.

HOOSE

NUMBER 4 12 NOON AST AUGUST 21 1964

HURRICANE WARNINGS ARE EFFECTIVE AT 12 NOON AST FRIDAY FOR THE AREA FROM ST. VINCENTS GRENADINES TO MARTINIQUE INCLUDING BARBADOS AND SAFETY PRECAUTIONS SHOULD BE STARTED IMMEDIATELY. WINDS WILL BEGIN INCREASING EARLY SATURDAY AND SHOULD REACH HURRICANE FORCE SATURDAY FORENOON IN THE AREA OF HURRICANE WARNING DISPLAY.

GALE WARNINGS ARE EFFECTIVE AT 12 NOON FRIDAY FOR THE GRENADINES SOUTH OF ST. VINCENTS INCLUDING GRENADA AND THE AREA NORTH OF MARTINIQUE TO AND INCLUDING GUADELOUPE.

REPORTS FROM RECONNAISSANCE AIRCRAFT INDICATE THAT TROPICAL STORM CLEO HAS MOVED IN A WESTERLY DIRECTION AND AT A SOMEWHAT FASTER RATE OF SPEED DURING THE NIGHT. AT 12 NOON AST...1600Z...TROPICAL STORM CLEO WAS LOCATED NEAR LATITUDE 12.9N LONGITUDE 52.4W OR ABOUT 970 MILES SOUTHEAST OF SAN JUAN PUERTO RICO AND 460 MILES EAST OF BARBADOS. IT IS MOVING TOWARD THE WEST ABOUT 24 MILES PER HOUR AND WILL CONTINUE ITS PRESENT COURSE DURING THE NEXT 12 HOURS.

HIGHEST WINDS ARE 70 MPH OVER A SMALL AREA NEAR THE CENTER AND GALE FORCE WINDS EXTEND OUT 110 MILES IN THE NORTHERN SEMICIRCLE AND 45 MILES IN THE SOUTHERN SEMICIRCLE. THE STORM WILL INCREASE SLOWLY IN SIZE AND INTENSITY AND WINDS WILL REACH HURRICANE FORCE OF 75 MPH DURING THE NEXT 12 HOURS.

THE NEXT REGULAR ADVISORY ON TROPICAL STORM CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 PM AST.

ZIMMER

SAN JUAN

NUMBER 5 6PM AST AUGUST 21 1964

ALL WARNINGS ST. VINCENTS TO MARTINIQUE INCLUDING BARBADOS ARE DISCONTINUED IMMEDIATELY.

HURRICANE WARNINGS ARE IN EFFECT AT 6 PM AST FRIDAY FOR THE AREA GUADELOUPE NORTH TO ANTIGUA INCLUDING BARBUDA AND MONTSERRAT.

GALE WARNINGS ARE IN EFFECT OVER THE REMAINDER OF THE LEEWARD ISLANDS INCLUDING ST. MAARTEN ST. KITTS AND ANGUILLA AND SOUTH OF GUADELOUPE TO DOMINICA. HURRICANE WARNING MAY BE EXTENDED LATER TONIGHT FOR THE REMAINDER OF THE LEEWARD ISLANDS.

WINDS WILL BEGIN INCREASING DURING THE FORENOON SATURDAY IN THE AREA OF HURRICANE WARNING DISPLAY AND SAFETY PRECAUTIONS SHOULD BE STARTED IMMEDIATELY IN THE AREA GUADELOUPE TO ANTIGUA INCLUDING BARBUDA AND MONTSERRAT.

RECONNAISSANCE AIRCRAFT AND VESSEL REPORTS INDICATE THAT CLEO HAS REACHED HURRICANE INTENSITY AND THE CENTER HAS BEEN RELOCATED AT 6 PM AST...2200Z...NEAR LATITUDE 14.8N LONGITUDE 55.0W OR 780 MILES EASTSOUTHEAST OF SAN JUAN PUERTO RICO AND 450 MILES EAST SOUTHEAST OF GUADELOUPE FRENCH ANTILLES. IT IS MOVING BETWEEN WEST AND WESTNORTHWEST AT 24 MPH AND WILL CONTINUE ITS PRESENT COURSE AND SPEED FOR THE NEXT 12 HOURS.

HIGHEST WINDS ARE 80 MPH OVER A SMALL AREA NEAR THE CENTER AND GALE FORCE WINDS EXTEND OUTWARD 110 MILES IN THE NORTHERN SEMICIRCLE AND 70 MILES IN THE SOUTHERN SEMICIRCLE. THE HURRICANE WILL INCREASE SLOWLY IN INTENSITY DURING THE NEXT 12 HOURS.

SMALL CRAFT IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD NOT VENTURE FAR FROM PORT.

PEOPLE IN THE AREA OF HURRICANE WARNINGS SHOULD KEEP IN TOUCH WITH THE LATEST INFORMATION AND BULLETINS AND BE READY FOR INSTANT ACTION ON SHORT NOTICE.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 MIDNIGHT AST.

ZIMMER

NUMBER 6 12 MIDNIGHT AUGUST 21 1964

HURRICANE WARNINGS ARE IN EFFECT AT 12 MIDNIGHT AST FOR ALL OF THE LEEWARD ISLANDS. GALE WARNINGS ARE IN EFFECT FOR THE AREA SOUTH OF DOMINICA TO AND INCLUDING ST. LUCIA.

WINDS WILL INCREASE GRADUALLY DURING THE FORENOON SATURDAY IN THE AREA OF HURRICANE DISPLAY. SAFETY PRECAUTIONS SHOULD BE TAKEN IMMEDIATELY FOR THE PROTECTION OF LIFE AND PROPERTY.

AT 12 MIDNIGHT AST...0400Z...HURRICANE CLEO WAS ESTIMATED TO BE CENTERED NEAR LATITUDE 15.1N LONGITUDE 56.9W. THIS POSITION IS ABOUT 640 STATUTE MILES EASTSOUTHEAST OF SAN JUAN PUERTO RICO AND 310 STATUTE MILES EASTSOUTHEAST OF GUADELOUPE FRENCH ANTILLES. REPORTS FROM RECONNAISSANCE AIRCRAFT INDICATE THAT CLEO IS MOVING ABOUT 22 MPH ON A WESTNORTHWEST COURSE. MOVEMENT DURING THE NEXT 12 HOURS IS EXPECTED TO BE ON THE SAME COURSE AT A SLIGHTLY REDUCED SPEED.

LITTLE CHANGE HAS OCCURRED IN THE WIND FIELD OF THE HURRICANE SINCE THE LAST ADVISORY. HIGHEST WINDS ARE ESTIMATED TO BE 80 MPH OVER A SMALL AREA NEAR THE CENTER WITH GALE FORCE WINDS EXTENDING 125 MILES TO THE NORTH AND 75 MILES TO THE SOUTH. NO APPRECIABLE INTENSIFICATION IS EXPECTED DURING THE NEXT 12 HOURS.

SMALL CRAFT IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 AM AST.

DAVIS

NUMBER 7 6 AM AST AUGUST 22 1964

HURRICANE WARNINGS REMAIN IN EFFECT FOR ALL OF THE LEEWARD ISLANDS. GALE WARNINGS REMAIN IN EFFECT FOR THE AREA SOUTH OF DOMINICA TO AND INCLUDING ST LUCIA.

A HURRICANE WATCH IS EFFECTIVE AT 6 AM AST FOR PUERTO RICO AND THE VIRGIN ISLANDS.

WINDS ARE EXPECTED TO INCREASE GRADUALLY DURING THE FORENOON SATURDAY IN THE AREA OF HURRICANE DISPLAY. PEOPLE IN THE LEEWARD ISLANDS SHOULD TAKE IMMEDIATE PRECAUTIONS FOR THE PROTECTION OF LIFE AND PROPERTY AGAINST HURRICANE FORCE WINDS TORRENTIAL RAIN AND SEA SWELLS OF 8 TO 10 FEET ON EXPOSED BEACHES.

AT 6 AM AST...1000Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 15.5N LONGITUDE 59.0W. THIS POSITION IS 170 STATUTE MILES EASTSOUTHEAST OF GUADELOUPE FRENCH ANTILLES AND 500 MILES EASTSOUTHEAST OF SAN JUAN PUERTO RICO. CLEO IS MOVING TOWARD THE WESTNORTHWEST ABOUT 20 MPH AND IS EXPECTED TO CONTINUE ON THE SAME COURSE AT THE SAME SPEED FOR THE NEXT 12 HOURS. THIS WILL TAKE THE CENTER OF THE STORM OVER GUADELOUPE EARLY THIS AFTERNOON.

HIGHEST WINDS ARE ESTIMATED TO BE ABOUT 80 MPH OVER A SMALL AREA NEAR THE CENTER. GALE FORCE WINDS EXTEND OUTWARD 125 STATUTE MILES IN THE NORTHERN SEMICIRCLE AND 75 MILES IN THE SOUTHERN SEMICIRCLE. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED DURING THE NEXT 12 HOURS.

SMALL CRAFT IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 NOON AST AND THERE WILL BE A BULLETIN AT 9 AM.

DAVIS

SAN JUAN

BULLETIN FOR PRESS RADIO AND TV 9 PM AST AUGUST 22 1964

HURRICANE WARNINGS ARE IN EFFECT FOR THE ENTIRE LEEWARD ISLANDS AND GALE WARNINGS ARE IN EFFECT FROM DOMINICA TO ST. LUCIA.

A HURRICANE WATCH CONTINUES FOR THE VIRGIN ISLANDS AND PUERTO RICO. ALL INTERESTS IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD KEEP IN TOUCH WITH THE LATEST INFORMATION ON THIS HURRICANE TODAY AND TONIGHT.

PEOPLE IN THE LEEWARD ISLANDS SHOULD RUSH TO COMPLETE PRECAUTIONS TO PROTECT LIFE AND PROPERTY AGAINST HURRICANE WINDS HIGH TIDES OF 4 TO 6 FEET ABOVE NORMAL DANGEROUS SURF ON EXPOSED BEACHES AND TORRENTIAL RAINS.

AT 9 AM AST THE CENTER OF HURRICANE CLEO IS ESTIMATED TO BE NEAR LATITUDE 15.7N AND LONGITUDE 60.0W OR ABOUT 100 MILES EAST SOUTHEAST OF GUADELOUPE FRENCH ANTILLES AND 450 MILES EASTSOUTHEAST OF SAN JUAN PUERTO RICO. IT CONTINUES MOVING TOWARD THE WESTNORTHWEST AT ABOUT 20 MPH AND IS EXPECTED TO CONTINUE THIS DIRECTION AND SPEED FOR THE NEXT 12 HOURS. HIGHEST WINDS ARE ESTIMATED AT 80 MPH. GALES EXTEND 125 MILES IN THE NORTHERN SEMICIRCLE AND 75 MILES IN THE SOUTHERN SEMICIRCLE.

CLEO IS A SMALL BUT DANGEROUS HURRICANE AND NOW BEGINS TO THREATEN THE VIRGIN ISLANDS AND PUERTO RICO. ON ITS PRESENT COURSE AND SPEED THE CENTER IS EXPECTED TO PASS A SHORT DISTANCE OFF THE SOUTH COAST OF PUERTO RICO EARLY SUNDAY MORNING. THE WINDS WILL BEGIN INCREASING IN THE VIRGIN ISLANDS AND PUERTO RICO AREA LATE TONIGHT PROBABLY REACHING HURRICANE STRENGTH AT ST. CROIX AND THE SOUTH COASTAL AREA OF PUERTO RICO LATE SATURDAY NIGHT AND EARLY SUNDAY MORNING. HURRICANE WATCH WILL BE CHANGED TO HURRICANE WARNINGS OVER THE VIRGIN ISLANDS AND PUERTO RICO AT NOON TODAY.

WITH THE WEEKEND ARRIVAL OF HURRICANE CLEO PEOPLE IN PUERTO RICO ARE URGED TO REMAIN NEAR HOME AND KEEP IN TOUCH WITH THE LATEST INFORMATION AND BE READY FOR QUICK ACTION LATER TODAY.

IT IS EMPHASIZED THAT THIS IS A SMALL BUT DANGEROUS HURRICANE AND A SLIGHT CHANGE IN ITS PRESENT DIRECTION TOWARD A MORE WEST NORTHWESTWARD DIRECTION COULD PLACE THE CENTER DIRECTLY OVER PUERTO RICO.

SMALL CRAFT FROM DOMINICAN REPUBLIC EASTWARD SHOULD REMAIN IN PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT NOON AND BULLETINS WILL BE ISSUED AS NEW INFORMATION IS RECEIVED FROM THE RECONNAISSANCE AIRCRAFT AND THE ISLAND STATIONS.

HIGGS

NUMBER 8 12 NOON AST AUGUST 22 1964

HURRICANE WARNINGS ARE EFFECTIVE AT 12 NOON AST FOR PUERTO RICO AND THE VIRGIN ISLANDS AND HURRICANE WARNINGS CONTINUE IN EFFECT FOR ALL OF THE LEEWARD ISLANDS AND EXTENDED TO INCLUDE DOMINICA AT 10 AM TODAY.

GALE WARNINGS REMAIN IN EFFECT FOR THE AREA SOUTH OF DOMINICA TO AND INCLUDING ST. LUCIA.

A HURRICANE WATCH IS EFFECTIVE AT 12 NOON AST SATURDAY FOR HAITI AND THE DOMINICAN REPUBLIC.

WINDS WILL BE INCREASING IN THE LEEWARD ISLANDS DURING THIS AFTERNOON AND PEOPLE IN THE LEEWARD ISLANDS SHOULD RUSH TO COMPLETE PRECAUTIONS TO PROTECT LIFE AND PROPERTY AGAINST HURRICANE WINDS HIGH TIDES OF 4 TO 6 FEET ABOVE NORMAL DANGEROUS SURF ON EXPOSED BEACHES AND TORRENTIAL RAINS.

AT 12 NOON AST THE CENTER OF HURRICANE CLEO WAS NEAR LATITUDE 16.0N LONGITUDE 61.0W. THIS POSITION IS 375 MILES EASTSOUTHEAST OF SAN JUAN PUERTO RICO AND 40 MILES EAST OF GUADELOUPE FRENCH ANTILLES. CLEO IS MOVING TOWARD THE WESTNORTHWEST AT THE SLIGHTLY FASTER SPEED OF 23 MPH AND WILL CONTINUE ON THE SAME COURSE AT THE SAME SPEED FOR THE NEXT 12 HOURS. THIS WILL TAKE THE CENTER OF THE HURRICANE OVER GUADELOUPE EARLY THIS AFTERNOON.

HURRICANE CLEO HAS INTENSIFIED DURING THE PAST SEVERAL HOURS AND IS A SMALL BUT DANGEROUS HURRICANE. HIGHEST WINDS ARE ABOUT 115 MPH OVER A SMALL AREA NEAR THE CENTER AND HURRICANE FORCE WINDS EXTEND OUT FROM THE CENTER 40 MILES IN ALL QUADRANTS. GALE FORCE WINDS EXTEND OUT 150 MILES IN THE NORTHEAST SEMICIRCLE AND 100 MILES IN THE SOUTHWEST SEMICIRCLE. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED DURING THE NEXT 12 HOURS.

WINDS WILL INCREASE IN THE VIRGIN ISLANDS THIS EVENING AND OVER EASTERN PUERTO RICO EARLY TONIGHT. IMMEDIATE PRECAUTIONS SHOULD BE TAKEN IN PUERTO RICO AND THE VIRGIN ISLANDS FOR THE PROTECTION OF LIFE AND PROPERTY AGAINST HURRICANE WINDS DANGEROUSLY HIGH TIDES 4 TO 6 FEET ABOVE NORMAL TORRENTIAL RAINS FLOODS AND DANGEROUS SURF ON EXPOSED BEACHES. WINDS WILL INCREASE TO HURRICANE FORCE OVER ALL OF THE VIRGIN ISLANDS AND PUERTO RICO LATE TONIGHT AND EARLY SUNDAY MORNING.

RESIDENTS OF PUERTO RICO AND THE VIRGIN ISLANDS SHOULD KEEP IN TOUCH WITH THE LATEST INFORMATION.

IF CLEO MAINTAINS ITS PRESENT COURSE AND SPEED THE CENTER WILL PASS ABOUT 40 MILES SOUTH OF ST. CROIX VIRGIN ISLANDS SHORTLY AFTER MIDNIGHT AND WITHIN 20 MILES OF THE SOUTH COAST OF PUERTO RICO SUNDAY MORNING.

SMALL CRAFT FROM THE DOMINICAN REPUBLIC EASTWARD SHOULD REMAIN IN PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 PM AST AND A BULLETIN WILL BE ISSUED AT 3 PM AST.

ZIMMER

SAN JUAN

BULLETIN FOR PRESS RADIO AND TV 3 PM AST AUGUST 22 1964

HURRICANE WARNINGS ARE IN EFFECT FOR PUERTO RICO THE VIRGIN ISLANDS AND LEEWARD ISLANDS.

A HURRICANE WATCH IS IN EFFECT FOR HAITI AND THE DOMINICAN REPUBLIC.

HURRICANE CLEO IS PRESENTLY PASSING OVER THE SOUTHERN TIP OF THE ISLAND OF GUADELOUPE. COMMUNICATIONS BETWEEN GUADELOUPE AND SAN JUAN WERE INTERRUPTED ABOUT NOON TODAY AND NO REPORTS HAVE BEEN RECEIVED FROM THAT ISLAND.

AT 3 PM AST HURRICANE CLEO IS CENTERED NEAR LATITUDE 16.1N LONGITUDE 61.8W NEAR THE SOUTH TIP OF GUADELOUPE AND ABOUT 320 MILES SOUTHEAST OF SAN JUAN PUERTO RICO. THE HURRICANE IS MOVING IN A DIRECTION BETWEEN WEST AND WESTNORTHWEST AT 22 MPH. IT WILL CONTINUE MOVING TOWARD THE WESTNORTHWEST WITH THE SAME SPEED FOR THE NEXT 12 HOURS.

WITH THIS DIRECTION OF MOTION AND SPEED THE CENTER SHOULD PASS ABOUT 50 MILES SOUTH OF ST. CROIX ABOUT 12 MIDNIGHT TONIGHT AND ABOUT 30 MILES SOUTH OF PONCE AT ABOUT DAYBREAK SUNDAY MORNING.

HIGHEST WINDS NEAR THE CENTER ARE ABOUT 115 MPH. HURRICANE WINDS EXTEND OVER A 40 MILE RADIUS FROM THE CENTER. GALE WINDS EXTEND OVER A RADIUS OF 150 MILES IN THE NORTHERN SEMICIRCLE AND 100 MILES IN THE SOUTHERN SEMICIRCLE.

CLEO IS A DANGEROUS HURRICANE. PEOPLE IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD COMPLETE PREPARATIONS THIS AFTERNOON FOR THE ONSET OF DANGEROUS WINDS TORRENTIAL RAINS AND HEAVY SEAS. THE WINDS WILL INCREASE OVER THE LEEWARD ISLANDS THIS AFTERNOON AND SPREAD GRADUALLY WESTWARD. THE SOUTHERN VIRGIN ISLANDS SHOULD START EXPERIENCING STRONG WINDS EARLY THIS EVENING AND THE EASTERN SECTORS OF PUERTO RICO LATE TONIGHT. THE HURRICANE EFFECTS OVER PUERTO RICO WILL BE HEAVIER OVER THE SOUTHERN HALF OF THE ISLAND DURING THE DAY SUNDAY.

SMALL CRAFT FROM THE DOMINICAN REPUBLIC WESTWARD SHOULD REMAIN IN PORT.

IT IS EMPHASIZED THAT THIS IS A DANGEROUS HURRICANE AND ALL PRECAUTIONS IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD BE COMPLETED THIS AFTERNOON. THE WEATHER BUREAU WILL CONTINUE ISSUING BULLETINS AT 3 HOURLY INTERVALS. THE PUBLIC SHOULD KEEP IN TOUCH WITH THE LATEST INFORMATION.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 PM AST.

COLON

NUMBER 9 6 PM AST AUGUST 22 1964

HURRICANE WARNINGS ARE IN EFFECT FOR PUERTO RICO THE VIRGIN ISLANDS AND LEEWARD ISLANDS. HURRICANE WARNINGS ARE EFFECTIVE AT 6 PM AST FOR THE SOUTH COASTAL AREA OF THE DOMINICAN REPUBLIC.

HURRICANE WARNINGS ARE DISCONTINUED FOR DOMINICA AND GALE WARNINGS ARE DISCONTINUED FOR THE AREA SOUTH OF DOMINICA TO ST. LUCIA.

A HURRICANE WATCH IS IN EFFECT FOR HAITI AND WILL PROBABLY BE CHANGED TO HURRICANE WARNINGS LATER TONIGHT.

WINDS WILL INCREASE IN THE VIRGIN ISLANDS THIS EVENING AND OVER EASTERN PUERTO RICO ABOUT MIDNIGHT. PRECAUTIONS SHOULD BE RUSHED TO COMPLETION THIS EVENING IN PUERTO RICO AND THE VIRGIN ISLANDS FOR PROTECTION OF LIFE AND PROPERTY AGAINST DESTRUCTIVE WINDS HIGH TIDES OF 4 TO 6 FEET ABOVE NORMAL AND DANGEROUS SURF ON EXPOSED BEACHES.

TORRENTIAL RAINS WILL OCCUR AS THE HURRICANE PASSES AND FLOODING IS LIKELY ON MOST RIVERS AND STREAMS IN PUERTO RICO AND THE VIRGIN ISLANDS.

DANGEROUS WINDS WILL BE EXPERIENCED OVER ALL THE VIRGIN ISLANDS AND PUERTO RICO LATE TONIGHT AND EARLY SUNDAY. THE MOST DESTRUCTIVE WINDS WILL OCCUR IN ST. CROIX AND ALONG THE SOUTH COASTAL REGION OF PUERTO RICO.

RESIDENTS IN THE SOUTH COASTAL AREAS OF THE DOMINICAN REPUBLIC SHOULD BEGIN PRECAUTIONS IMMEDIATELY AS WINDS WILL BE INCREASING SUNDAY AND REACH HURRICANE FORCE SUNDAY AFTERNOON. PEOPLE IN HAITI SHOULD BE READY FOR QUICK ACTION SINCE WARNINGS WILL PROBABLY BE EXTENDED TO INCLUDE PORTIONS OF HAITI LATER TONIGHT.

LATEST REPORTS FROM RECONNAISSANCE AIRCRAFT PLACES THE CENTER OF HURRICANE CLEO AT LATITUDE 16.3 NORTH LONGITUDE 63.2 WEST OR ABOUT 240 MILES SOUTHEAST OF SAN JUAN PUERTO RICO. CLEO IS MOVING TOWARD THE WESTNORTHWEST AT 22 MPH AND WILL CONTINUE ON ABOUT THE SAME COURSE FOR THE NEXT 12 HOURS.

CLEO IS A SMALL BUT DANGEROUS HURRICANE. THE MINIMUM PRESSURE IN THE CENTER IS 28.35 INCHES. HIGHEST WINDS ARE 120 MPH OVER A SMALL AREA NEAR THE CENTER WITH GALES EXTENDING OUTWARD 150 MILES TO THE NORTH AND ABOUT 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE OR INTENSITY IS FORECAST FOR THE NEXT 12 HOURS.

SMALL CRAFT IN THE LEEWARD ISLANDS PUERTO RICO THE VIRGIN ISLANDS AND HISPANIOLA SHOULD REMAIN IN PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 MIDNIGHT AND A BULLETIN WILL BE ISSUED AT 9 PM AST. ADDITIONAL INTERMEDIATE BULLETINS WILL BE ISSUED AS NEW INFORMATION IS RECEIVED.

HOOSE

SAN JUAN

BULLETIN FOR PRESS RADIO AND TV 9 AM AST AUGUST 22 1964

HURRICANE WARNINGS CONTINUE IN EFFECT FOR PUERTO RICO VIRGIN ISLANDS LEEWARD ISLANDS AND THE DOMINICAN REPUBLIC. A HURRICANE WATCH IS IN EFFECT FOR HAITI.

PEOPLE IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD COMPLETE ALL PRECAUTIONS AS QUICKLY AS POSSIBLE. RESIDENTS IN LOW LYING AREA IN ST. CROIX AND IN SOUTH COASTAL AREAS OF PUERTO RICO SHOULD MOVE TO HIGHER GROUND AND SAFER LOCATIONS AND REMAIN THERE UNTIL THE DANGER IS OVER.

RESIDENTS IN THE SOUTH COASTAL SECTIONS OF THE DOMINICAN REPUBLIC SHOULD RUSH PRECAUTIONS AS WINDS WILL BE INCREASING SUNDAY AND REACH HURRICANE FORCE BY SUNDAY AFTERNOON. PEOPLE IN HAITI SHOULD LISTEN FOR THE LATEST INFORMATION AND BE READY FOR QUICK ACTION IF HURRICANE WATCH IS CHANGED TO HURRICANE WARNINGS.

HURRICANE CLEO HAS MOVED WITHIN RANGE OF LAND BASED RADAR IN PUERTO RICO AND AT 9 PM AST IT WAS CENTERED NEAR LATITUDE 16.5N LONGITUDE 63.8W OR ABOUT 200 MILES SOUTHEAST OF SAN JUAN PUERTO RICO. IT IS CONTINUING ON A WESTNORTHWEST COURSE AT A SLIGHTLY SLOWER RATE OF 20 MPH. ON THIS COURSE THE CENTER OF CLEO WILL PASS ABOUT 60 MILES SOUTH OF ST. CROIX VIRGIN ISLANDS ABOUT 2 AM AST AND ABOUT THE SAME DISTANCE SOUTH OF PONCE PUERTO RICO AROUND 8 AM AST.

HIGHEST WINDS IN HURRICANE CLEO ARE 120 MPH IN A SMALL AREA NEAR THE CENTER AND GALES EXTEND 150 MILES TO THE NORTH AND ABOUT 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE AND INTENSITY IS EXPECTED DURING THE NEXT 6 TO 12 HOURS.

AT 8 PM THIS EVENING ST. CROIX REPORTED WINDS OF 27 MPH WITH GUSTS TO 40 MPH. EARLIER DURING THE AFTERNOON ANTIGUA HAD HEAVY RAIN AND GUSTS TO 50 MPH AND GUADELOUPE OBSERVED GUSTS TO 81 MPH.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 MIDNIGHT AST.

HOOSE

NUMBER 10 12 MIDNIGHT AST AUGUST 22 1964

HURRICANE WARNINGS REMAIN IN EFFECT FOR PUERTO RICO THE VIRGIN ISLANDS AND THE DOMINICAN REPUBLIC. A HURRICANE WATCH IS IN EFFECT FOR HAITI.

ALL WARNINGS ARE DISCONTINUED FOR THE LEEWARD ISLANDS.

ALL INTERESTS IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD COMPLETE PRECAUTIONS IMMEDIATELY. RESIDENTS IN LOW LYING AREAS IN ST. CROIX AND SOUTH COASTAL AREAS OF PUERTO RICO SHOULD MOVE TO HIGHER GROUND UNTIL WARNINGS ARE DISCONTINUED.

RESIDENTS IN SOUTH COASTAL AREAS OF DOMINICAN REPUBLIC SHOULD ALSO COMPLETE NECESSARY PRECAUTIONS AS SOON AS POSSIBLE AND BE PREPARED FOR HURRICANE CONDITIONS BY AFTERNOON SUNDAY. PEOPLE IN HAITI SHOULD KEEP ADVISED OF THE LATEST HURRICANE INFORMATION AND BE PREPARED FOR QUICK ACTION IF HURRICANE WATCH IS CHANGED TO HURRICANE WARNING.

ALTHOUGH WINDS OF HURRICANE FORCE ARE NOT EXPECTED WIND OF GALE FORCE AND HIGH SURF ARE PROBABLE IN ST. CROIX AND ALONG THE SOUTH COAST OF PUERTO RICO DURING THE NIGHT. HEAVY RAIN IS ALSO EXPECTED AND SOME FLOODING OF LOW LYING AREAS IS LIKELY.

AT 12 MIDNIGHT AST...0400Z...HURRICANE CLEO WAS LOCATED BY RECONNAISSANCE AIRCRAFT AND LAND BASED RADAR AND IS CENTERED NEAR LATITUDE 16.6N LONGITUDE 64.8W. THIS POSITION IS 150 STATUTE MILES SOUTHEAST OF SAN JUAN PUERTO RICO. THE STORM IS MOVING BETWEEN WEST AND WESTNORTHWEST ABOUT 20 MPH AND IS EXPECTED TO FOLLOW THE SAME COURSE AT THE SAME SPEED FOR THE NEXT 12 HOURS.

HIGHEST WINDS ARE ESTIMATED TO BE 120 MPH IN A VERY SMALL AREA NEAR THE CENTER WITH GALES EXTENDING 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED DURING THE NEXT 12 HOURS.

SMALL CRAFT IN PUERTO RICO THE VIRGIN ISLANDS AND DOMINICAN REPUBLIC SHOULD REMAIN IN PORT AND THOSE IN THE LEEWARD ISLANDS SHOULD EXERCISE CAUTION UNTIL ROUGH SEAS SUBSIDE.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 AM AST AND THERE WILL BE A BULLETIN AT 3 AM.

DAVIS

BULLETIN FOR PRESS RADIO AND TV 3 AM AST AUGUST 23 1964

HURRICANE WARNINGS ARE CONTINUED FOR PUERTO RICO THE VIRGIN ISLANDS AND THE DOMINICAN REPUBLIC AND A HURRICANE WATCH REMAINS IN EFFECT FOR HAITI.

AT 3 AM AST HURRICANE CLEO WAS ESTIMATED TO BE NEAR LATITUDE 16.4N LONGITUDE 65.3W OR ABOUT 150 MILES SOUTH SOUTHEAST OF SAN JUAN PUERTO RICO. IT IS MOVING BETWEEN WEST AND WESTNORTHWEST ABOUT 20 MPH AND LITTLE CHANGE IS EXPECTED IN DIRECTION AND SPEED DURING THE NEXT 6 TO 12 HOURS.

THE CENTER IS EXPECTED TO PASS ABOUT 60 MILES SOUTH OF PONCE PUERTO RICO DURING THE EARLY FORENOON. ALTHOUGH HURRICANE FORCE WINDS ARE OCCURRING OVER THE OPEN WATERS NEAR THE CENTER OF THE STORM THEY ARE NOT EXPECTED TO SPREAD NORTH TO PUERTO RICO OR THE VIRGIN ISLANDS. WINDS OF WHOLE GALE FORCE WILL OCCUR AT ST. CROIX AND ALONG THE SOUTH COAST OF PUERTO RICO BUT 35 TO 40 MILES PER HOUR IS LIKELY TO BE THE MAXIMUM WIND AT ST. THOMAS AND ALONG THE NORTHERN COAST OF PUERTO RICO. HEAVY RAIN AND HIGH SURF WITH SOME LOCAL FLOODING OF LOW LYING AREAS IS ALSO EXPECTED IN ST. CROIX AND ALONG THE SOUTH COAST OF PUERTO RICO. PEOPLE IN THESE AREAS SHOULD CONTINUE TO EXERCISE CAUTION UNTIL DANGER IS PASSED AND WARNINGS DISCONTINUED.

THE PRESENT COURSE AND SPEED OF HURRICANE CLEO WILL CARRY IT PAST PUERTO RICO BY NOON TODAY AND IT WILL THEN BECOME A SERIOUS THREAT TO THE DOMINICAN REPUBLIC. ALL PRECAUTIONARY MEASURES IN THE DOMINICAN REPUBLIC SHOULD BE RUSHED TO COMPLETION.

PEOPLE IN HAITI SHOULD KEEP ADVISED OF THE LATEST HURRICANE INFORMATION AND BE READY TO TAKE ACTION IN THE EVENT THAT HURRICANE WATCH IS CHANGED TO HURRICANE WARNING.

SMALL CRAFT IN PUERTO RICO THE VIRGIN ISLANDS AND THE DOMINICAN REPUBLIC SHOULD REMAIN IN PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 AM AST.

DAVIS

SAN JUAN

NUMBER 11 6 AM AST AUGUST 22 1964

HURRICANE WARNINGS REMAIN IN EFFECT FOR THE SOUTH COAST OF PUERTO RICO AND FOR THE DOMINICAN REPUBLIC. HURRICANE WARNINGS ARE CHANGED TO GALE WARNINGS FOR THE REMAINDER OF PUERTO RICO AND FOR THE VIRGIN ISLANDS. A HURRICANE WATCH REMAINS IN EFFECT FOR HAITI.

PEOPLE ALONG THE SOUTH COAST OF PUERTO RICO SHOULD CONTINUE FULL PRECAUTIONS FOR THE PROTECTION OF LIFE AND PROPERTY AGAINST WINDS OF WHOLE GALE FORCE. HURRICANE FORCE WINDS WILL BE CONFINED TO THE OPEN WATERS OFFSHORE. ELSEWHERE IN PUERTO RICO AND THE VIRGIN ISLANDS PRECAUTIONS SHOULD BE CONTINUED FOR WINDS OF 35 TO 45 MILES PER HOUR. HIGH SURF AND HEAVY RAINFALL ARE EXPECTED AND LOCAL FLOODING OF LOW LYING AREAS IS LIKELY.

PRECAUTIONARY MEASURES IN THE DOMINICAN REPUBLIC SHOULD BE RUSHED TO COMPLETION AS THE PRESENT COURSE AND SPEED OF HURRICANE CLEO WILL CARRY IT PAST PUERTO RICO BY NOON TODAY AND IT THEN BECOMES A SERIOUS THREAT TO THE DOMINICAN REPUBLIC.

PEOPLE IN HAITI SHOULD KEEP ADVISED OF THE LATEST HURRICANE INFORMATION AND BE READY TO TAKE ACTION IN THE EVENT THAT HURRICANE WATCH IS CHANGED TO HURRICANE WARNING.

AT 6 AM AST...1000Z...HURRICANE CLEO WAS LOCATED BY RECONNAISSANCE AIRCRAFT AND LAND BASED RADAR AND WAS CENTERED NEAR LATITUDE 16.5N LONGITUDE 66.2W OR ABOUT 130 MILES SOUTH OF SAN JUAN PUERTO RICO. IT IS MOVING BETWEEN WEST AND WESTNORTHWEST AT ABOUT 20 MILES PER HOUR AND IS EXPECTED TO CONTINUE ON ITS PRESENT COURSE AT THE SAME SPEED FOR THE NEXT 12 HOURS.

HIGHEST WINDS ARE ESTIMATED TO BE 120 MILES PER HOUR OVER A SMALL AREA NEAR THE CENTER. GALE FORCE WINDS EXTEND OUTWARD 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE OR INTENSITY IS ANTICIPATED DURING THE NEXT 12 HOURS.

THE WEATHER BUREAU RADAR SHOWS HEAVY RAIN SPREADING NORTH AND WEST WITH HURRICANE CLEO. STRONG WINDS OF INCREASING INTENSITY HAVE BEEN REPORTED ALONG THE SOUTHEAST COAST OF PUERTO RICO. WINDS OF 50 MPH HAVE BEEN REPORTED AT ST. CROIX. IT IS EMPHASIZED THAT PRECAUTIONS SHOULD NOT BE RELAXED UNTIL THE HURRICANE HAS PASSED AND WARNINGS DISCONTINUED.

SMALL CRAFT IN PUERTO RICO THE VIRGIN ISLANDS AND THE DOMINICAN REPUBLIC SHOULD REMAIN IN PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 NOON AST AND THERE WILL BE A BULLETIN AT 9 AM.

DAVIS

BULLETIN FOR PRESS RADIO AND TV 9 AM AST AUGUST 23 1964

HURRICANE WARNINGS REMAIN IN EFFECT FOR THE SOUTH COAST OF PUERTO RICO AND FOR THE DOMINICAN REPUBLIC.

GALE WARNINGS ARE IN EFFECT FOR THE REMAINDER OF PUERTO RICO AND FOR THE VIRGIN ISLANDS. A HURRICANE WATCH REMAINS IN EFFECT FOR HAITI.

AT 9 AM AST THE CENTER OF HURRICANE CLEO WAS LOCATED BY LAND BASED RADAR NEAR LATITUDE 16.6N LONGITUDE 66.9W OR 85 MILES SOUTH SOUTHWEST OF PONCE PUERTO RICO. IT IS MOVING BETWEEN WEST AND WESTNORTHWEST ABOUT 20 MPH AND LITTLE CHANGE IS EXPECTED IN SPEED AND DIRECTION DURING THE NEXT 6 TO 12 HOURS.

HURRICANE FORCE WINDS ARE OCCURRING OVER THE OPEN WATERS OFF THE SOUTH COAST OF PUERTO RICO AND PEOPLE IN THE SOUTH COASTAL AREAS OF PUERTO RICO SHOULD CONTINUE PRECAUTIONS AGAINST HURRICANE WINDS AND HEAVY SURF. ELSEWHERE IN PUERTO RICO AND THE VIRGIN ISLANDS PRECAUTIONS SHOULD BE CONTINUED FOR GALE FORCE WINDS OF 40 TO 50 MPH.

A WEATHER BUREAU RADAR SHOWS MODERATE TO HEAVY RAINS OCCURRING OVER PUERTO RICO AND FLOODING IS LIKELY TO OCCUR ALONG RIVERS AND STREAMS IN PUERTO RICO TODAY.

PEOPLE SHOULD STAY AWAY FROM LOW LYING AREAS NEAR RIVERS AND STREAMS AND ALL PERSONS SHOULD STAY OFF EXPOSED LOW LYING BEACHES ALONG THE SOUTH AND EAST COASTS OF PUERTO RICO THROUGHOUT THE DAY TODAY. IT SHOULD BE EMPHASIZED THAT HEAVY SURF WILL CONTINUE ALONG THE SOUTH AND EAST COASTS OF PUERTO RICO AND VIRGIN ISLANDS AND HEAVY RAINS WILL CONTINUE EVEN AS THE HURRICANE MOVES AWAY FROM PUERTO RICO.

WINDS OF 50 MPH OCCURRED DURING THE NIGHT AT ST. CROIX AND WINDS OF 52 MPH WERE REPORTED AT POINT TUNA ON THE SOUTHEAST CORNER OF PUERTO RICO THIS MORNING.

IT IS EMPHASIZED AGAIN THAT PRECAUTIONS SHOULD NOT BE RELAXED UNTIL THE HURRICANE HAS PASSED AND WARNINGS ARE DISCONTINUED.

SMALL CRAFT IN PUERTO RICO VIRGIN ISLANDS AND HISPANIOLA SHOULD REMAIN IN PORT. PEOPLE IN HAITI SHOULD KEEP ADVISED OF LATEST INFORMATION IN THE EVENT THE HURRICANE WATCH IS CHANGED TO HURRICANE WARNINGS.

THE NEXT REGULAR ADVISORY WILL BE ISSUED AT 12 NOON AST TODAY.

ZIMMER

**SAN JUAN
NUMBER 12 NOON AST AUGUST 23 1964**

HURRICANE WARNINGS REMAIN IN EFFECT FOR THE DOMINICAN REPUBLIC AND ARE EFFECTIVE AT 12 NOON AST FOR THE SOUTHWEST PENINSULA OF HAITI. A HURRICANE WATCH CONTINUES IN EFFECT FOR THE REMAINDER OF HAITI.

HURRICANE WARNINGS ARE CHANGED TO GALE WARNINGS FOR THE SOUTH COAST OF PUERTO RICO AND GALE WARNINGS ARE DISCONTINUED AT 12 NOON AST FOR THE VIRGIN ISLANDS AND THE NORTH COAST OF PUERTO RICO.

PEOPLE ALONG THE SOUTH COAST OF PUERTO RICO SHOULD CONTINUE PRECAUTIONS AGAINST WINDS OF GALE FORCE AND HIGH SURF. HEAVY RAINFALL OVER PUERTO RICO WILL CAUSE SOME FLOODING OF RIVERS AND STREAMS. PERSONS SHOULD STAY AWAY FROM LOW LYING AREAS NEAR RIVERS AND STREAMS AND ALL PERSONS SHOULD STAY OFF EXPOSED LOW LYING BEACHES ALONG THE SOUTH AND EAST COASTS OF PUERTO RICO AND THE VIRGIN ISLANDS THROUGHOUT THE REMAINDER OF TODAY.

PRECAUTIONARY MEASURES IN THE DOMINICAN REPUBLIC MAINLY THE SOUTH COASTAL AREAS AND OVER THE SOUTHWEST PENINSULA OF HAITI SHOULD BE RUSHED TO COMPLETION FOR PROTECTION AGAINST HURRICANE WINDS HIGH TIDES HEAVY SURF AND TORRENTIAL RAINS.

WINDS WILL INCREASE DURING THE AFTERNOON OVER THE DOMINICAN REPUBLIC AND REACH HURRICANE FORCE ALONG THE SOUTH COAST OF THE DOMINICAN REPUBLIC LATE THIS AFTERNOON AND TONIGHT. WINDS WILL INCREASE AND REACH HURRICANE FORCE LATE TONIGHT AND EARLY MONDAY OVER THE SOUTHWEST PENINSULA OF HAITI. PEOPLE IN THE AREA OF HURRICANE WATCH IN HAITI SHOULD KEEP ADVISED OF THE LATEST HURRICANE INFORMATION AND BE READY TO TAKE ACTION IN THE EVENT THAT HURRICANE WATCH IS CHANGED TO HURRICANE WARNING.

AT 12 NOON AST...1600Z...HURRICANE CLEO WAS LOCATED BY LAND BASED RADAR NEAR LATITUDE 16.7N LONGITUDE 67.7W OR ABOUT 110 MILES SOUTHWEST OF PONCE PUERTO RICO AND 170 MILES SOUTHWEST OF SAN JUAN PUERTO RICO. IT IS MOVING IN A DIRECTION BETWEEN WEST AND WESTNORTHWEST AT THE SLIGHTLY SLOWER SPEED OF 17 MPH AND WILL CONTINUE THE SAME COURSE AND SPEED FOR THE NEXT 12 HOURS.

HIGHEST WINDS ARE ESTIMATED TO BE 120 MILES PER HOUR OVER A SMALL AREA NEAR THE CENTER. HURRICANE WINDS EXTEND 40 MILES FROM THE CENTER IN ALL QUADRANTS AND GALE FORCE WINDS EXTEND OUTWARD 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED DURING THE NEXT 12 HOURS.

SMALL CRAFT IN PUERTO RICO THE VIRGIN ISLANDS DOMINICAN REPUBLIC AND HAITI SHOULD REMAIN IN PORT.

SMALL CRAFT AROUND JAMAICA AND SOUTHEAST CUBAN COAST SHOULD SEEK AND REMAIN IN SAFE HARBOR UNTIL AFTER THE PASSAGE OF CLEO.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 PM AST AND A BULLETIN AT 3 PM AST.

ZIMMER

BULLETIN FOR PRESS RADIO AND TV 3 PM AST AUGUST 23 1964

HURRICANE WARNINGS ARE IN EFFECT FOR THE DOMINICAN REPUBLIC AND THE SOUTHWEST PENINSULA OF HAITI. A HURRICANE WATCH CONTINUES FOR THE REMAINDER OF HAITI.

GALE WARNINGS REMAIN IN EFFECT FOR THE SOUTH COAST OF PUERTO RICO.

PEOPLE ALONG THE SOUTH COAST OF PUERTO RICO SHOULD CONTINUE PRECAUTIONS AGAINST HIGH TIDES AND HEAVY SURF AND WINDS UP TO GALE FORCE IN THE SOUTHWESTERN SECTIONS. HEAVY RAIN OVER PUERTO RICO WILL CAUSE SOME FLOODING OF RIVERS AND STREAMS. PERSONS SHOULD STAY AWAY FROM LOW LYING AREAS NEAR RIVERS AND OFF EXPOSED BEACHES ALONG THE SOUTH AND EAST COASTS OF PUERTO RICO TODAY.

PRECAUTIONARY MEASURES IN THE SOUTH COASTAL AREAS OF THE DOMINICAN REPUBLIC AND OVER THE SOUTHWEST PENINSULA OF HAITI SHOULD BE RUSHED TO COMPLETION FOR PROTECTION AGAINST DESTRUCTIVE WINDS HIGH TIDES HEAVY SURF AND TORRENTIAL RAINS.

WINDS WILL INCREASE THIS AFTERNOON OVER THE DOMINICAN REPUBLIC AND REACH HURRICANE FORCE ALONG THE SOUTH COAST LATE THIS AFTERNOON AND TONIGHT. WINDS WILL INCREASE AND REACH HURRICANE FORCE LATE TONIGHT AND EARLY MONDAY OVER THE SOUTHWEST PENINSULA OF HAITI.

AT 3 PM AST...1900Z...HURRICANE CLEO WAS LOCATED BY LAND BASED RADAR IN PUERTO RICO NEAR LATITUDE 16.9N LONGITUDE 68.5W OR SOME 180 MILES SOUTHWEST OF SAN JUAN PUERTO RICO. IT CONTINUES TO MOVE IN A DIRECTION BETWEEN WEST AND WESTNORTHWEST AT ABOUT 17 MPH AND WILL CONTINUE ON THE SAME COURSE AND SPEED FOR THE NEXT 12 HOURS. HIGHEST WINDS ARE ABOUT 120 MPH OVER A SMALL AREA NEAR THE CENTER.

SMALL CRAFT IN PUERTO RICO THE VIRGIN ISLANDS DOMINICAN REPUBLIC AND HAITI SHOULD REMAIN IN PORT. SMALL CRAFT IN JAMAICA AND SOUTHEAST CUBAN COAST SHOULD SEEK SAFE SHELTER UNTIL AFTER THE PASSAGE OF CLEO.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 PM AST.

HOOSE

NUMBER 13 6PM AST AUGUST 23 1964

HURRICANE WARNINGS ARE IN EFFECT FOR DOMINICAN REPUBLIC AND SOUTHWEST PENINSULA OF HAITI. A HURRICANE WATCH CONTINUES FOR THE REMAINDER OF HAITI.

GALE WARNINGS ARE DISCONTINUED FOR THE SOUTH COAST OF PUERTO RICO.

PEOPLE ALONG THE SOUTH COAST OF PUERTO RICO SHOULD STAY AWAY FROM LOW LYING AND EXPOSED BEACHES UNTIL SEAS SUBSIDE. RAINFALL IS DIMINISHING OVER PUERTO RICO HOWEVER PEOPLE SHOULD REMAIN ON THE ALERT TONIGHT AS LOCALLY HEAVY RAIN MAY PRODUCE SOME FLOODING.

PRECAUTIONARY MEASURES IN SOUTH COASTAL AREAS OF THE DOMINICAN REPUBLIC AND OVER THE SOUTHWEST PENINSULA OF HAITI SHOULD BE COMPLETED IMMEDIATELY FOR PROTECTION AGAINST DESTRUCTIVE WINDS HEAVY SURF AND TORRENTIAL RAINS.

STORM TIDES WILL INCREASE TONIGHT IN THE BAY OF BARAHONA DOMINICAN REPUBLIC TO HEIGHTS AS MUCH AS FIVE FEET ABOVE NORMAL. LOW LYING AREAS WILL BE FLOODED AND PEOPLE SHOULD MOVE TO HIGHER GROUND IN COASTAL AREAS ON THE EAST SIDE OF BARAHONA PENINSULA.

WINDS WILL REACH HURRICANE FORCE TONIGHT ALONG THE SOUTH COAST OF THE DOMINICAN REPUBLIC WEST OF SANTO DOMINGO CITY. WINDS WILL REACH HURRICANE FORCE LATE TONIGHT AND EARLY MONDAY OVER THE SOUTHWEST PENINSULA OF HAITI.

SAN JUAN

HURRICANE CLEO WAS LOCATED BY RECONNAISSANCE AIRCRAFT AND LAND BASED RADAR AT 6 PM AST...2200Z...NEAR LATITUDE 16.9 NORTH LONGITUDE 69.1 WEST OR 220 MILES SOUTHWEST OF SAN JUAN PUERTO RICO AND 110 MILES SOUTH SOUTHEAST OF SANTO DOMINGO DOMINICAN REPUBLIC. CLEO IS MOVING IN A DIRECTION BETWEEN WEST AND WESTNORTHWEST AT 17 MPH AND WILL CONTINUE THE SAME COURSE AND SPEED FOR THE NEXT 12 HOURS.

CLEO IS A SMALL BUT EXTREMELY DANGEROUS HURRICANE. HIGHEST WINDS ARE NOW ESTIMATED TO BE 140 MPH OVER A SMALL AREA NEAR THE CENTER. HURRICANE WINDS EXTEND 40 MILES FROM THE CENTER IN ALL QUADRANTS AND GALE WINDS EXTEND OUTWARD 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED DURING THE NEXT 12 HOURS.

SMALL CRAFT IN PUERTO RICO AND THE VIRGIN ISLANDS SHOULD NOT VENTURE FROM PORT UNTIL SEAS SUBSIDE. SMALL CRAFT IN THE DOMINICAN REPUBLIC AND HAITI SHOULD REMAIN IN PORT. SMALL CRAFT IN JAMAICA AND SOUTHEAST CUBA SHOULD SEEK SAFE HARBOR IMMEDIATELY.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 MIDNIGHT AND A BULLETIN WILL BE ISSUED AT 9 PM AST.

HOOSE

BULLETIN FOR PRESS RADIO AND TV 9PM AST AUGUST 23 1964

HURRICANE WARNINGS ARE IN EFFECT FOR DOMINICAN REPUBLIC AND THE SOUTHWEST PENINSULA OF HAITI. A HURRICANE WATCH CONTINUES FOR THE REMAINDER OF HAITI.

EMERGENCY SAFETY PRECAUTIONS SHOULD BE COMPLETED IMMEDIATELY IN THE SOUTH COASTAL AREAS OF THE DOMINICAN REPUBLIC AND OVER THE SOUTHWEST PENINSULA OF HAITI.

WINDS WILL REACH HURRICANE FORCE TONIGHT ALONG THE SOUTH COAST OF THE DOMINICAN REPUBLIC WEST OF SANTO DOMINGO AND EARLY MONDAY OVER THE SOUTHWEST PENINSULA OF HAITI.

STORM TIDES ARE FORECAST UP TO FIVE FEET ABOVE NORMAL IN THE BAY OF BARAHONA AND IN LOW AREAS ALONG THE SOUTH COAST OF HAITI. LOW AREAS WILL BE FLOODED AND PEOPLE SHOULD MOVE TO HIGHER GROUND. STORM TIDES WILL BE ACCOMPANIED BY HIGH WAVES AND HEAVY SURF.

PEOPLE ALONG THE SOUTH COAST OF PUERTO RICO SHOULD STAY AWAY FROM LOW LYING BEACHES UNTIL SEAS SUBSIDE. RADAR SHOWS THAT THE HEAVY RAIN AREA HAS MOVED WEST OF PUERTO RICO AND IS NOW OVER THE DOMINICAN REPUBLIC. UNLESS ADDITIONAL RAINS DEVELOP THE DANGER OF FLOODING IN PUERTO RICO IS OVER.

AT 9 PM AST...0100Z...HURRICANE CLEO WAS ESTIMATED TO BE NEAR LATITUDE 17.0N LONGITUDE 69.9W OR 260 MILES WESTSOUTHWEST OF SAN JUAN PUERTO RICO AND ABOUT 90 MILES SOUTH OF SANTO DOMINGO. IT IS MOVING IN A DIRECTION BETWEEN WEST AND WESTNORTHWEST AT 17 MPH AND WILL CONTINUE IN THE SAME DIRECTION AND AT THE SAME SPEED FOR THE NEXT 12 HOURS.

THIS IS A CONCENTRATED SMALL VIOLENT HURRICANE WITH HIGHEST WINDS 140 MPH OVER A SMALL AREA NEAR THE CENTER. LAST REPORTED CENTRAL PRESSURE WAS 950 MILLIBARS OR 28.05 INCHES.

SMALL CRAFT IN DOMINICAN REPUBLIC AND HAITI SHOULD REMAIN IN PORT. SMALL CRAFT IN JAMAICA AND SOUTHEAST CUBA SHOULD SEEK SAFE SHELTER.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 MIDNIGHT AST.

HOOSE

NUMBER 14 12 MIDNIGHT AST AUGUST 23 1964

HURRICANE WARNINGS REMAIN IN EFFECT FOR THE BARAHONA PENINSULA OF THE DOMINICAN REPUBLIC AND FOR THE SOUTHWEST PENINSULA OF HAITI AND ARE DISCONTINUED FOR THE REMAINDER OF THE DOMINICAN REPUBLIC.

A HURRICANE WATCH IS CONTINUED FOR THE REMAINDER OF HAITI.

EMERGENCY SAFETY PRECAUTIONS SHOULD BE RUSHED TO COMPLETION THROUGHOUT BOTH THE BARAHONA PENINSULA OF THE DOMINICAN REPUBLIC AND THE SOUTHWEST PENINSULA OF HAITI. HURRICANE FORCE WINDS WILL REACH THE BARAHONA PENINSULA DURING THE NIGHT AND WILL SPREAD THROUGHOUT THE SOUTHWEST PENINSULA OF HAITI DURING THE DAY MONDAY.

STORM TIDES UP TO FIVE FEET AND HIGH SURF ARE EXPECTED FOR THE BAY OF BARAHONA AND ALONG THE SOUTH COAST OF HAITI. TORRENTIAL RAINS ARE ALSO LIKELY. FLOODING OF LOW AREAS WILL BE WIDESPREAD AND PEOPLE SHOULD TAKE IMMEDIATE ACTION TO MOVE TO PLACES OF SAFETY.

GALE WARNINGS ARE EFFECTIVE ELSEWHERE ALONG THE SOUTH COAST OF THE DOMINICAN REPUBLIC EASTWARD FROM THE BARAHONA PENINSULA TO SANTO DOMINGO CITY. PEOPLE IN THIS AREA SHOULD TAKE NECESSARY PRECAUTIONS AGAINST GALE FORCE WINDS AND HEAVY SURF DURING THE NIGHT.

IF THE PRESENT COURSE AND SPEED OF THE STORM CONTINUE GALES WILL BEGIN TO AFFECT EASTERN JAMAICA MONDAY AFTERNOON WITH THE PROBABILITY OF HURRICANE FORCE WINDS SPREADING INTO THE ISLAND MONDAY NIGHT.

AT 12 MIDNIGHT AST...0400Z...HURRICANE CLEO WAS ESTIMATED TO BE LOCATED NEAR LATITUDE 17.1N LONGITUDE 70.5W OR ABOUT 100 MILES SOUTH SOUTHWEST OF SANTO DOMINGO CITY. IT IS MOVING BETWEEN WEST AND WESTNORTHWEST AT ABOUT 17 MILES PER HOUR. LITTLE CHANGE IN SPEED AND DIRECTION IS EXPECTED DURING THE NEXT 12 HOURS. HIGHEST WINDS ARE ESTIMATED TO BE ABOUT 140 MILES PER HOUR OVER A SMALL AREA NEAR THE CENTER. HURRICANE FORCE WINDS EXTEND OUTWARD ABOUT 40 MILES AND GALES EXTEND 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE AND INTENSITY IS EXPECTED DURING THE NEXT 12 HOURS.

SMALL CRAFT IN THE DOMINICAN REPUBLIC AND HAITI SHOULD REMAIN IN PORT. SMALL CRAFT IN JAMAICA AND SOUTHEAST CUBA SHOULD SEEK SAFE HARBOR.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 AM AST AND A BULLETIN WILL BE ISSUED AT 3 AM.

DAVIS

**SAN JUAN
BULLETIN FOR PRESS RADIO AND TV 3 AM AST AUGUST 24 1964**

HURRICANE WARNINGS ARE CONTINUED FOR THE BARAHONA PENINSULA OF THE DOMINICAN REPUBLIC AND FOR THE SOUTHWEST PENINSULA OF HAITI. A HURRICANE WATCH IS EFFECTIVE FOR THE REMAINDER OF HAITI. GALE WARNINGS ARE CONTINUED FOR THE SOUTH COAST OF THE DOMINICAN REPUBLIC FROM THE BARAHONA PENINSULA EASTWARD TO SANTO DOMINGO CITY.

INTERESTS ON THE BARAHONA PENINSULA AND THE SOUTHWEST PENINSULA OF HAITI SHOULD CONTINUE EMERGENCY PRECAUTIONS AGAINST HURRICANE FORCE WINDS TORRENTIAL RAIN HEAVY SURF AND STORM TIDES UP TO FIVE FEET. FLOODING OF LOW LYING AREAS WILL BE WIDESPREAD AND PEOPLE SHOULD TAKE IMMEDIATE ACTION TO MOVE TO PLACES OF SAFETY. HURRICANE CLEO WILL CONTINUE TO AFFECT THE BARAHONA PENINSULA FOR THE REMAINDER OF THE NIGHT AND EARLY MONDAY AND ITS EFFECTS WILL SPREAD WESTWARD THROUGHOUT THE SOUTHWEST PENINSULA OF HAITI DURING THE DAY.

PEOPLE IN COASTAL AREAS OF THE DOMINICAN REPUBLIC EAST OF THE BARAHONA PENINSULA TO SANTO DOMINGO CITY SHOULD CONTINUE PRECAUTIONS AGAINST HEAVY SURF AND POSSIBLE GALE FORCE WINDS DURING THE REMAINDER OF THE NIGHT AND EARLY MONDAY.

IF THE PRESENT COURSE AND SPEED OF THE STORM CONTINUE GALES WILL BEGIN TO AFFECT EASTERN JAMAICA MONDAY AFTERNOON WITH THE PROBABILITY OF HURRICANE FORCE WINDS SPREADING INTO THE ISLAND MONDAY NIGHT.

AT 3 AM AST...0700Z...HURRICANE CLEO WAS ESTIMATED TO BE CENTERED NEAR LATITUDE 17.2N LONGITUDE 71.3W OR ABOUT 125 MILES SOUTHWEST OF SANTO DOMINGO CITY. IT IS MOVING ON A PATH BETWEEN WEST AND WESTNORTHWEST ABOUT 17 MPH AND IS EXPECTED TO CONTINUE ITS PRESENT DIRECTION AND SPEED FOR THE NEXT 6 TO 12 HOURS.

HIGHEST WINDS ARE ESTIMATED TO BE 140 MPH OVER A SMALL AREA NEAR THE CENTER. HURRICANE FORCE WINDS EXTEND 40 MILES IN ALL QUADRANTS WITH WINDS OF GALE FORCE EXTENDING 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE AND INTENSITY IS ANTICIPATED DURING THE NEXT 6 TO 12 HOURS.

SMALL CRAFT IN THE DOMINICAN REPUBLIC AND HAITI SHOULD REMAIN IN PORT. SMALL CRAFT IN JAMAICA AND SOUTHEAST CUBA SHOULD SEEK SAFE HARBOR.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 6 AM AST AND THERE WILL BE A BULLETIN AT 9 AM.

DAVIS

NUMBER 15 6AM AST AUGUST 24 1964.

HURRICANE WARNINGS ARE CONTINUED FOR THE BARAHONA PENINSULA OF THE DOMINICAN REPUBLIC AND FOR THE SOUTHWEST PENINSULA OF HAITI. A HURRICANE WATCH REMAINS IN EFFECT FOR THE REMAINDER OF HAITI. GALE WARNINGS FOR SOUTHERN COASTAL AREAS OF THE DOMINICAN REPUBLIC EAST OF THE BARAHONA PENINSULA ARE DISCONTINUED.

AT 6 AM AST...1000Z...HURRICANE CLEO WAS ESTIMATED TO BE CENTERED NEAR LATITUDE 17.2N LONGITUDE 71.8W. THIS POSITION IS ABOUT 100 MILES SOUTH SOUTHEAST OF PORT AU PRINCE HAITI. THE STORM IS MOVING BETWEEN WEST AND WESTNORTHWEST ABOUT 16 MILES PER HOUR. LITTLE CHANGE IN SPEED AND DIRECTION IS EXPECTED DURING THE NEXT 12 HOURS.

MAXIMUM WINDS ARE ESTIMATED TO BE 140 MILES PER HOUR OVER A SMALL AREA NEAR THE CENTER WITH HURRICANE FORCE WINDS EXTENDING 40 MILES IN ALL QUADRANTS AND GALES EXTENDING 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH. THESE WINDS ARE EXPECTED TO CONTINUE WITH NO SUBSTANTIAL CHANGE FOR THE NEXT 12 HOURS.

THE PATH OF HURRICANE CLEO IS EXPECTED TO BE OVER THE OPEN WATER JUST SOUTH OF THE SOUTHWEST PENINSULA OF HAITI DURING THE DAY MONDAY AND HURRICANE OR WHOLE GALE FORCE WINDS ARE EXPECTED TO AFFECT THE BARAHONA PENINSULA AND THE EASTERN PORTION OF THE SOUTHWEST PENINSULA OF HAITI THIS MORNING SPREADING TO THE WESTERN PORTION IN THE AFTERNOON. THE WINDS WILL BE ACCOMPANIED BY TORRENTIAL RAIN HEAVY SURF AND ABNORMALLY HIGH TIDES.

PEOPLE IN THE AREA OF WARNING SHOULD CONTINUE ALL EMERGENCY PRECAUTIONS UNTIL THE STORM HAS PASSED AND WARNINGS ARE DISCONTINUED. WIDESPREAD FLOODING OF LOW LYING AREAS IS PROBABLE AND PEOPLE SHOULD MOVE TO PLACES OF SAFETY ON HIGHER GROUND. IT IS EMPHASIZED THAT THIS IS A SMALL BUT DANGEROUS HURRICANE PASSING CLOSE TO THE PENINSULA AND MAXIMUM SAFETY PRECAUTIONS SHOULD BE TAKEN.

PREPARATIONS SHOULD BE MADE IN JAMAICA FOR GALES REACHING EASTERN JAMAICA MONDAY AFTERNOON AND SPREADING WESTWARD WITH HURRICANE FORCE WINDS OVER THE ISLAND MONDAY NIGHT.

SMALL CRAFT IN THE DOMINICAN REPUBLIC AND HAITI SHOULD REMAIN IN PORT. SMALL CRAFT IN JAMAICA AND SOUTHEAST CUBA SHOULD SEEK SAFE HARBOR.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 NOON AST AND THERE WILL BE A BULLETIN AT 9 AM.

DAVIS

BULLETIN FOR PRESS RADIO AND TV 9 AM AST AUGUST 24 1964

HURRICANE WARNINGS REMAIN IN EFFECT FOR THE BARAHONA PENINSULA OF THE DOMINICAN REPUBLIC AND FOR THE SOUTHWEST PENINSULA OF HAITI. A HURRICANE WATCH CONTINUES FOR THE REMAINDER OF HAITI.

AT 9 AM AST...1300Z...HURRICANE CLEO WAS CENTERED ON THE BASIS OF RECONNAISSANCE AIRCRAFT REPORTS NEAR LATITUDE 17.2N LONGITUDE 72.1W OR ABOUT 90 MILES SOUTH OF PORT AU PRINCE HAITI. IT IS MOVING BETWEEN WEST AND WESTNORTHWEST ABOUT 16 MPH AND THERE ARE SOME INDICATIONS OF A SLOWER SPEED IN ITS FORWARD MOTION. CLEO IS EXPECTED TO CONTINUE ON THE SAME COURSE FOR THE NEXT 12 HOURS.

CLEO WILL PASS JUST SOUTH OF THE SOUTHWEST PENINSULA OF HAITI TODAY AND HURRICANE OR WHOLE GALE FORCE WINDS WILL AFFECT THE EASTERN PORTION OF THE SOUTHWEST PENINSULA THIS MORNING SPREADING TO THE WESTERN PORTION EARLY THIS AFTERNOON. WINDS WILL BE ACCOMPANIED BY TORRENTIAL RAIN HEAVY SURF AND ABNORMALLY HIGH TIDES UP TO 5 FT ABOVE NORMAL.

HURRICANE CLEO IS A SMALL BUT CONCENTRATED AND VIOLENT HURRICANE WITH MAXIMUM WINDS ESTIMATED AT 140 MPH OVER A SMALL AREA NEAR THE CENTER.

PREPARATIONS SHOULD BE MADE IN JAMAICA FOR GALES REACHING EASTERN JAMAICA MONDAY AFTERNOON AND SPREADING WESTWARD WITH HURRICANE FORCE WINDS OVER THE ISLAND MONDAY NIGHT.

SAN JUAN

PEOPLE IN THE AREA OF WARNING SHOULD CONTINUE ALL EMERGENCY PRECAUTIONS UNTIL THE STORM HAS PASSED AND WARNINGS ARE DISCONTINUED. WINDESPREAD FLOODING OF LOW LYING AREAS IS PROBABLE AND PEOPLE SHOULD MOVE TO PLACES OF SAFETY ON HIGHER GROUND AND REMAIN THERE UNTIL ALL DANGER IS PAST.

SMALL CRAFT IN JAMAICA SOUTHEAST CUBA DOMINICAN REPUBLIC AND HAITI SHOULD REMAIN IN PORT.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE SAN JUAN WEATHER BUREAU AT 12 NOON AST.

HOOSE

NUMBER 16 12 NOON AST AUGUST 24 1964

HURRICANE WARNINGS REMAIN IN EFFECT FOR THE SOUTHWEST PENINSULA OF HAITI A HURRICANE WATCH CONTINUES FOR THE REMAINDER OF HAITI.

HURRICANE WARNINGS ARE DISCONTINUED FOR THE BARAHONA PENINSULA OF THE DOMINICAN REPUBLIC.

HURRICANE CLEO IS PASSING JUST SOUTH OF THE SOUTHWEST PENINSULA OF HAITI TODAY AND WILL PASS ABOUT 40 MILES SOUTH OF LES CAYES HAITI NEAR THE WESTERN TIP OF THE PENINSULA AT 6 PM AST THIS AFTERNOON. PEOPLE IN THE SOUTHWEST PENINSULA SHOULD CONTINUE EMERGENCY PRECAUTIONS UNTIL THE HURRICANE HAS PASSED AND WARNINGS ARE DISCONTINUED.

PRESENT INDICATIONS ARE THAT CLEO WILL PASS OVER JAMAICA TONIGHT AND TUESDAY FORENOON. HURRICANE FORCE WINDS ARE EXPECTED OVER EASTERN JAMAICA TONIGHT AND EMERGENCY PRECAUTIONS SHOULD BE STARTED IMMEDIATELY AGAINST DESTRUCTIVE WINDS TORRENTIAL RAIN HIGH TIDES AND HEAVY BATTERING SURF. MORE INFORMATION WILL BE GIVEN ON WESTERN JAMAICA IN LATER BULLETINS AND ADVISORIES.

PRESENT INDICATIONS ARE THAT THERE WILL BE ONLY FRINGE EFFECTS OF HURRICANE CLEO ALONG THE SOUTH SHORE OF ORIENTE PROVINCE CUBA BUT SMALL CRAFT THERE SHOULD REMAIN IN SAFE HARBOR.

LATEST REPORTS FROM RECONNAISSANCE AIRCRAFT SHOW THAT HURRICANE CLEO WAS CENTERED AT 12 NOON AST...1600Z...AT LATITUDE 17.2N LONGITUDE 72.6W OR ABOUT 90 MILES SOUTH SOUTHWEST OF PORT AU PRINCE HAITI AND ABOUT 270 MILES EAST OF KINGSTON JAMAICA. CLEO IS MOVING ON A COURSE BETWEEN WEST AND WESTNORTHWEST AT 14 MPH AND IS EXPECTED TO CONTINUE IN THE SAME DIRECTION AND AT THE SAME SPEED FOR THE NEXT 12 HOURS.

THIS IS A SMALL BUT EXTREMELY DANGEROUS HURRICANE. HIGHEST WINDS ARE ESTIMATED TO BE 140 MPH OVER A SMALL AREA NEAR THE CENTER. HURRICANE FORCE WINDS EXTEND OUT 40 MILES IN ALL QUADRANTS AND GALES EXTEND 150 MILES TO THE NORTH AND ABOUT 100 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE OR INTENSITY IS FORECAST FOR THE NEXT 12 HOURS.

SMALL CRAFT IN HAITI AND JAMAICA SHOULD REMAIN IN SAFE HARBOR. SMALL CRAFT IN THE SOUTH COASTAL AREA OF THE DOMINICAN REPUBLIC SHOULD REMAIN IN PORT UNTIL SEAS SUBSIDE.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 PM EST...2200Z...AND A BULLETIN WILL BE ISSUED BY MIAMI WEATHER BUREAU AT 2 PM EST.

HOOSE

MIAMI

BULLETIN FOR PRESS RADIO AND TV 2 PM EST MONDAY AUGUST 24 1964

SEVERE HURRICANE CLEO IS THREATENING JAMAICA.

PRESENT INDICATIONS ARE THAT CLEO WILL PASS OVER JAMAICA TONIGHT AND TUESDAY FORENOON AND THAT HURRICANE FORCE WINDS WILL BEGIN OVER EASTERN JAMAICA TONIGHT. EMERGENCY PRECAUTIONS SHOULD BE CONTINUED AGAINST DESTRUCTIVE WINDS TORRENTIAL RAINS HIGH TIDES AND HEAVY BATTERING SURF. INFORMATION ON WESTERN JAMAICA WILL BE CONTAINED IN THE 5 PM ADVISORY.

ONLY FRINGE EFFECTS OF CLEO ARE EXPECTED ALONG THE SOUTH COAST OF ORIENTE PROVINCE CUBA HOWEVER SMALL CRAFT THERE SHOULD REMAIN IN SAFE HARBOR UNTIL THE PASSAGE OF THE HURRICANE. SMALL CRAFT IN HAITI AND JAMAICA SHOULD REMAIN IN SAFE HARBOR.

HURRICANE CLEO IS CENTERED AT 2 PM EST AT LATITUDE 17.3 NORTH LONGITUDE 73.2 WEST OR ABOUT 250 MILES NEARLY DUE EAST OF KINGSTON JAMAICA AND 750 MILES SOUTHEAST OF MIAMI. CLEO IS MOVING ON A COURSE BETWEEN WEST AND WESTNORTHWEST AT 14 MILES PER HOUR WITH HIGHEST WINDS OF 140 MILES PER HOUR OVER A SMALL AREA NEAR THE CENTER.

NO INFORMATION IS AVAILABLE FROM THE SOUTHWEST HAITIAN PENINSULA WHICH IS JUST ABOUT 60 MILES NORTH OF THE HURRICANE CENTER THIS AFTERNOON. PEOPLE ALONG THIS PENINSULA SHOULD REMAIN IN SHELTERS UNTIL THE HURRICANE PASSES.

A REPORT FROM FORT DE FRANCEL THIS MORNING LISTS 13 DEAD AND 40 WOUNDED ON THE ISLANDS OF GUADELOUPE AND MATOUBA. IT ALSO INDICATES THAT THE BANANA CROPS HAVE BEEN RUINED AND THERE IS EXTENSIVE DAMAGE TO 1000 HOUSES AND TO ROADS COMMUNICATION LINES AND SHIPS.

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

SUGG

NUMBER 17 5 PM EST MONDAY AUGUST 24 1964

THE METEOROLOGICAL SERVICE OF JAMAICA HAS HOISTED HURRICANE WARNINGS FOR ALL OF JAMAICA AND HURRICANE WARNINGS REMAIN IN EFFECT FOR THE SOUTHWEST PENINSULA OF HAITI WITH A HURRICANE WATCH FOR THE REMAINDER OF HAITI.

HURRICANE FORCE WINDS ARE EXPECTED TO BEGIN OVER EASTERN JAMAICA AROUND MIDNIGHT AND TO OVERSPREAD WESTERN JAMAICA BY MORNING. THE MOST SEVERE CONDITIONS ARE FORECAST ALONG THE NORTH COAST BUT A SLIGHT CHANGE IN THE FORECAST TRACK OF THIS SMALL BUT VIOLENT HURRICANE COULD RESULT IN MORE SEVERE CONDITIONS FURTHER SOUTH. EMERGENCY PRECAUTIONS IN JAMAICA AGAINST DESTRUCTIVE WINDS TORRENTIAL RAINS HIGH TIDES AND HEAVY BATTERING SURF SHOULD BE COMPLETED AT THE EARLIEST POSSIBLE MOMENT.

PRESENT INDICATIONS ARE THAT ONLY FRINGE EFFECTS OF HURRICANE CLEO WILL BE FELT ALONG THE SOUTH SHORE OF ORIENTE PROVINCE OF CUBA BUT SMALL CRAFT THERE SHOULD REMAIN IN SAFE HARBOR. SMALL CRAFT IN THE CAYMANIAN ISLANDS SHOULD SEEK SAFETY IMMEDIATELY.

MIAMI

LATEST REPORTS FROM RECONNAISSANCE AIRCRAFT INDICATE THAT HURRICANE CLEO WAS CENTERED AT 5 PM EST...2200Z...IN APPROXIMATELY LATITUDE 17.6 NORTH LONGITUDE 73.9 WEST WHICH IS ABOUT 200 MILES SLIGHTLY SOUTH OF DUE EAST OF KINGSTON JAMAICA AND 725 MILES SOUTHEAST OF MIAMI FLORIDA. CLEO IS MOVING ON A COURSE BETWEEN WEST AND WESTNORTHWEST AT 14 MPH AND NO MATERIAL CHANGE IN DIRECTION OR SPEED IS INDICATED DURING THE NEXT 12 HOURS.

THIS CONTINUES TO BE A SMALL BUT EXTREMELY DANGEROUS HURRICANE. HIGHEST WINDS ARE ESTIMATED AT ABOUT 140 MPH OVER A SMALL AREA NEAR THE CENTER. HURRICANE FORCE WINDS ARE CONFINED TO A RADIUS OF 40 MILES FROM THE CENTER IN ALL QUADRANTS AND GALES EXTEND OUTWARD 150 MILES TO THE NORTH AND ABOUT 100 MILES TO THE SOUTH. NO CENTRAL PRESSURE READING HAS BEEN OBTAINED TODAY AND LITTLE CHANGE IN SIZE OR INTENSITY IS FORECAST FOR THE NEXT 12 HOURS.

SMALL CRAFT AROUND JAMAICA SHOULD REMAIN IN SAFE HARBOR AND SMALL CRAFT AROUND HAITI SHOULD REMAIN IN PORT UNTIL WINDS AND SEAS SUBSIDE TUESDAY.

THE NEXT REGULAR ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 11 PM EST...0400Z...WITH AN INTERIM BULLETIN AT 8 PM EST.

DUNN

BULLETIN FOR PRESS RADIO AND TV 8 PM EST AUGUST 24 1964

HURRICANE WARNINGS ARE IN EFFECT FOR JAMAICA AND THE SOUTHWEST PENINSULA OF HAITI.

HURRICANE CLEO HAS BECOME PARTIALLY ENTANGLED WITH THE HIGH MOUNTAINS AT THE WESTERN END OF THE HAITIAN PENINSULA. THE CENTER HAS BECOME SOMEWHAT DISORGANIZED AND AT 7 PM WAS JUST OFF THE WESTERN TIP OF THE HAITIAN PENINSULA ABOUT 115 MILES SOUTH SOUTHEAST OF GUANTANAMO CUBA AND ABOUT 140 MILES EAST OF JAMAICA.

ALTHO NO REPORTS HAVE BEEN RECEIVED FROM THE WESTERN PORTION OF THE HAITIAN PENINSULA THEY UNDOUBTEDLY HAD HURRICANE FORCE WINDS TORRENTIAL RAINS AND HIGH TIDES THIS AFTERNOON AND EVENING.

CLEO CONTINUES AS A SMALL BUT EXTREMELY DANGEROUS HURRICANE WITH HURRICANE FORCE WINDS OVER A RADIUS OF 40 MILES FROM THE CENTER AND GALES EXTENDING OUT 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH.

AS THE HURRICANE MOVES WESTWARD TOWARD JAMAICA OVER THE OPEN WATER IT LIKELY WILL BECOME ORGANIZED AGAIN AND INTERESTS THRU JAMAICA AND SOUTHERN PORTION OF ORIENTE PROVINCE SHOULD PREPARE FOR POSSIBLE HURRICANE CONDITIONS LATER TONIGHT AND TUESDAY.

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

KRAFT

NUMBER 18 11 PM EST AUGUST 24 1964

AT 11 PM EST...0400Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 18.4 NORTH LONGITUDE 75.4 WEST OR ABOUT 100 STATUTE MILES EAST NORTHEAST OF KINGSTON JAMAICA. THE HURRICANE HAS RESUMED ITS MOVEMENT TOWARD THE WEST OR WESTNORTHWEST ABOUT 15 MPH.

HIGHEST WINDS ARE ESTIMATED 110 MPH AFTER ITS BRUSH WITH THE HAITIAN PENINSULA BUT IT IS EXPECTED TO INTENSIFY TO 140 MPH AGAIN TONIGHT. GALES EXTEND OUT ABOUT 150 MILES TO THE NORTH AND 100 MILES TO SOUTH OF THE CENTER.

ALL INTERESTS THRU JAMAICA AND THE SOUTHERN PORTION OF ORIENTE PROVINCE IN CUBA SHOULD PREPARE FOR GALES AND POSSIBLE HURRICANE CONDITIONS LATER TONIGHT AND TUESDAY. IN ANY CASE VERY ROUGH SEAS ABOVE NORMAL TIDES AND HEAVY BATTERING SURF WILL OCCUR ALONG THE NORTH JAMAICAN COAST AND THE SOUTHERN COAST OF ORIENTE PROVINCE OF CUBA. IN ADDITION THESE AREAS WILL LIKELY RECEIVE TORRENTIAL RAINS.

SMALL CRAFT FROM HAITI TO THE CAYMAN ISLANDS SHOULD NOT VENTURE INTO THE OPEN SEAS AND THOSE IN JAMAICA AND SOUTHERN CUBA SHOULD SEEK SAFE HARBOR.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 AM EST WITH A BULLETIN AT 2 AM EST.

KRAFT

BULLETIN FOR PRESS RADIO AND TV 2 AM EST AUGUST 25 1964

HURRICANE CLEO IS BEING OBSERVED BY RECONNAISSANCE AIRCRAFT AND BY THE NAVY RADAR STATION AT GUANTANAMO BAY CUBA THIS MORNING. AT 2 AM EST THE CENTER WAS ABOUT 85 MILES SOUTH OF SANTIAGO CUBA NEAR LATITUDE 18.8N LONGITUDE 76.0W. IT IS EXPECTED TO MOVE TOWARDS THE WESTNORTHWEST AT ABOUT 15 MPH TODAY.

HIGHEST WINDS ARE ESTIMATED 110 MPH NEAR THE CENTER BUT SOME SLIGHT INTENSIFICATION MAY OCCUR NOW THAT THE CIRCULATION IS NO LONGER SUFFERING FROM INTERFERENCE BY THE MOUNTAINS OF HAITI. GALES EXTEND OUT ABOUT 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH OF THE CENTER.

INTERESTS IN JAMAICA AND PARTICULARLY IN THE SOUTHERN PORTION OF ORIENTE PROVINCE IN CUBA SHOULD CONTINUE PRECAUTIONS AGAINST GALES AND POSSIBLE HURRICANE CONDITIONS INCLUDING TORRENTIAL RAINS. HEAVY RAINS WILL ALSO CONTINUE FOR SEVERAL HOURS ON THE SOUTHWEST PENINSULA OF HAITI. ABOVE NORMAL TIDES AND VERY ROUGH SEAS WILL OCCUR ON THE SOUTH COAST OF ORIENTE PROVINCE AND ON THE NORTH COAST OF JAMAICA.

SMALL CRAFT FROM HAITI TO THE CAYMAN ISLANDS SHOULD NOT VENTURE INTO THE OPEN SEA AND THOSE IN JAMAICA AND SOUTH CUBA SHOULD REMAIN IN SAFE HARBOR.

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

MOORE

MIAMI

NUMBER 19 5 AM EST AUGUST 25 1964

AT 5 AM EST...1000Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 19.0N LONGITUDE 76.3W. THIS POSITION IS APPROXIMATELY 80 MILES NORTH OF KINGSTON JAMAICA AND 75 MILES SOUTH SOUTHWEST OF SANTIAGO CUBA. CLEO IS MOVING TOWARD THE WESTNORTHWEST AT ABOUT 15 MPH AND IS EXPECTED TO CONTINUE TOWARDS THE WESTNORTHWEST AT ABOUT THE SAME RATE TODAY.

HIGHEST WINDS ARE ESTIMATED 110 MPH NEAR THE CENTER. GALES EXTEND OUT 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH.

INTERESTS IN THE SOUTHERN PORTION OF THE ORIENTE PROVINCE OF CUBA SHOULD CONTINUE PRECAUTIONS AGAINST GALE TO HURRICANE FORCE WINDS AND TORRENTIAL RAINS. PRECAUTIONS SHOULD ALSO BE CONTINUED IN JAMAICA FOR HEAVY RAINS AND FOR GALES ALONG THE NORTH COAST. ABOVE NORMAL TIDES ROUGH SEAS AND HEAVY SURF WILL OCCUR ON THE SOUTH COAST OF ORIENTE PROVINCE CUBA AND THE NORTH COAST OF JAMAICA.

SMALL CRAFT FROM HAITI TO THE CAYMAN ISLANDS SHOULD NOT VENTURE INTO THE OPEN SEA AND THOSE IN JAMAICA AND SOUTH CUBA SHOULD REMAIN IN SAFE HARBOR.

THE NEXT ADVISORY WILL BE ISSUED FROM THE MIAMI WEATHER BUREAU AT 11 AM EST WITH AN INTERMEDIATE BULLETIN AT 8 AM EST.

MOORE

BULLETIN FOR PRESS RADIO AND TV 8 AM EST TUESDAY AUGUST 25 1964

HURRICANE CLEO CONTINUES ON A COURSE TOWARD THE WESTNORTHWEST AT ABOUT 15 MPH AND AT 8 AM EST WAS CENTERED NEAR LATITUDE 19.3 NORTH LONGITUDE 76.9 WEST. THIS POSITION IS ABOUT 35 MILES OFF THE SOUTH COAST OF CUBA SOME 80 MILES SOUTHWEST OF SANTIAGO.

HIGHEST WINDS ARE ESTIMATED 110 MPH NEAR THE CENTER. GALES EXTEND FROM THE SOUTHWESTERN PORTION OF ORIENTE PROVINCE IN CUBA TO THE VICINITY OF THE NORTH COAST OF JAMAICA AND THE SOUTHWEST TIP OF THE HAITIAN PENINSULA AND TO GREATER DISTANCES FROM THE CENTER OVER SOME ADJACENT WATER AREAS.

INTERESTS IN THE SOUTHERN PORTION OF ORIENTE PROVINCE OF CUBA SHOULD CONTINUE ALL PRECAUTIONS AGAINST HURRICANE FORCE WINDS TORRENTIAL RAINS AND FLOODS. PRECAUTIONS SHOULD ALSO BE CONTINUED FOR JAMAICA FOR HEAVY RAINS AND POSSIBLE FLOODING. ABOVE NORMAL TIDES ROUGH SEAS AND HEAVY SURF WILL OCCUR TODAY ON THE SOUTH COAST OF ORIENTE PROVINCE CUBA AND TO SOME EXTENT ON THE NORTH COAST OF JAMAICA.

SMALL CRAFT FROM HAITI TO THE CAYMAN ISLANDS AND IN JAMAICA AND SOUTH CUBA HAVE BEEN ADVISED TO REMAIN IN SAFE HARBOR.

THE STORM IS BEING OBSERVED BY THE NAVY RADAR STATION AT GUANTANAMO BAY CUBA AND BY RECONNAISSANCE AIRCRAFT.

THE NEXT ADVISORY WILL BE ISSUED FROM THE MIAMI WEATHER BUREAU AT 11 AM EST.

MOORE

NUMBER 20 11 AM EST TUESDAY AUGUST 25 1964

HURRICANE FORCE WINDS ARE UNDOUBTEDLY OCCURRING OVER THE ORIENTE PROVINCE OF CUBA WEST OF SANTIAGO TO CAPE CRUZ AND PRECAUTIONS SHOULD BE CONTINUED AGAINST DESTRUCTIVE WINDS TORRENTIAL RAINS AND ABOVE NORMAL TIDES OVER MOST OF THE CAPE CRUZ PENINSULA FOR THE REMAINDER OF THE DAY. THE PENINSULA WILL TEND TO DISORGANIZE HURRICANE CLEO FOR A SHORT WHILE HOWEVER REGENERATION IS EXPECTED LATER TODAY AND HURRICANE CONDITIONS ARE EXPECTED ALONG THE SOUTH CUBAN COAST AND THE ISLANDS OFFSHORE TONIGHT AND EARLY WEDNESDAY.

SMALL CRAFT ALONG THE SOUTH CUBAN COAST AND THE CAYMAN ISLANDS SHOULD SEEK SAFE HARBOR IMMEDIATELY.

AT 11 AM EST...1600Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 19.8 NORTH LONGITUDE 77.0 WEST VERY NEAR THE SOUTH CUBAN COAST 125 MILES SOUTH SOUTHEAST OF CAMAGUEY CUBA AND 460 MILES SOUTH SOUTHEAST OF MIAMI FLORIDA. CLEO IS MOVING TOWARD THE WESTNORTHWEST NEAR 12 MPH AND IS EXPECTED TO CONTINUE ON THIS COURSE AT THE SAME RATE OF FORWARD SPEED TODAY AND TONIGHT. THIS PROJECTED TRACK WOULD PLACE THE CENTER OF HURRICANE CLEO A VERY SHORT DISTANCE SOUTH AND MOVING PARALLEL TO THE SOUTH CUBAN COAST DURING THE NEXT 24 HOURS. HIGHEST WINDS ARE ESTIMATED 110 MPH NEAR THE CENTER WITH GALES EXTENDING OUTWARD 150 MILES TO THE NORTH AND 100 MILES TO THE SOUTH.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 PM EST WITH AN INTERMEDIATE BULLETIN AT 2 PM EST.

SUGG

BULLETIN FOR PRESS RADIO AND TV 2 PM EST TUESDAY AUGUST 25 1964

NO REPORTS HAVE BEEN RECEIVED ALONG THE CAPE CRUZ PENINSULA OF ORIENTE PROVINCE CUBA SINCE LATE THIS MORNING. HOWEVER SANTIAGO WHICH HAS BEEN ON THE NORTHEAST EDGE OF THE HURRICANE HAS BEEN EXPERIENCING GALES AND HEAVY RAIN.

AT 2 PM EST THE CENTER OF HURRICANE CLEO IS ESTIMATED TO BE ON THE NORTHWEST COAST OF THE CAPE CRUZ PENINSULA NEAR LATITUDE 20.1 NORTH LONGITUDE 77.5 WEST MOVING OUT OVER THE OPEN WATERS. THIS POSITION IS ABOUT 95 MILES SOUTH SOUTHEAST OF CAMAGUEY AND 430 MILES SOUTH SOUTHEAST OF MIAMI. IT IS NOT CERTAIN HOW MUCH THE LAND MASS HAS CHANGED THE INTENSITY AND THE COURSE OF CLEO HOWEVER SOME ERRATIC MOVEMENT MAY BE EXPECTED DURING THE NEXT FEW HOURS. GENERAL STEERING CURRENTS SHOULD CARRY THE HURRICANE ON A NORTHWESTERLY COURSE VERY NEAR THE SOUTH CUBAN COAST AT A SPEED OF 12 MPH. A SLIGHTLY MORE NORTHERLY COURSE WOULD PLACE THE CENTER OVER LAND LONG ENOUGH TO REDUCE THE RELATIVELY SMALL CLEO TO TROPICAL STORM INTENSITY. REPORTS THIS MORNING INDICATE THE HIGHEST WINDS ARE 110 MPH.

PEOPLE ALONG THE SOUTH CUBAN COAST FROM THE MANZANILLO AREA WESTWARD ALONG THE CAMAGUEY AND LAS VILLAS PROVINCES SHOULD CONTINUE PRECAUTIONS AGAINST THE STORMS FURY.

SMALL CRAFT ALONG THE SOUTH CUBAN COAST AND THE NORTHERN CAYMANS SHOULD REMAIN IN SAFE HARBOR.

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

SUGG

MIAMI

NUMBER 21 5 PM EST AUGUST 25 1964

DATA ARE SPARSE THIS AFTERNOON BUT REPORTS INDICATE THAT THE CENTER OF HURRICANE CLEO AT 5 PM EST...2200Z...IS NEAR LATITUDE 21.0 NORTH LONGITUDE 78.0 WEST. THIS POSITION IS ABOUT 30 MILES SOUTH SOUTHWEST OF CAMAGUEY CUBA AND 360 MILES SOUTH SOUTHEAST OF MIAMI FLORIDA. CLEO IS MOVING ON A COURSE TOWARD THE NORTHWEST AT 15 MILES PER HOUR WITH HIGHEST WINDS 75 MPH OVER A SMALL AREA NEAR THE CENTER AND GALES EXTENDING OUTWARD 140 MILES IN ALL DIRECTIONS. CLEO IS EXPECTED TO MOVE ON A COURSE TOWARD THE NORTHWEST AT 15 MPH DURING THE NEXT 24 HOURS. THIS TRACK WOULD MEAN THAT THE CENTER WILL LIKELY PASS THROUGH THE LOWER FLORIDA KEYS LATE WEDNESDAY AFTERNOON. HEAVY RAINS ARE INDICATED FOR EXTREME SOUTH FLORIDA INCLUDING THE KEYS. WINDS AROUND THE CENTER MAY DECREASE A LITTLE MORE WHILE OVER CUBA TONIGHT HOWEVER WINDS WILL INCREASE TO ABOVE HURRICANE FORCE AGAIN ONCE THE CENTER REACHES THE OPEN WATERS OF THE FLORIDA STRAITS ON THE NORTH CUBAN COAST AROUND DAYBREAK WEDNESDAY.

ALL INTERESTS IN CENTRAL CUBA SHOULD CONTINUE PRECAUTIONS AGAINST DESTRUCTIVE WINDS HEAVY RAINS AND HIGH TIDES.

SMALL CRAFT THROUGHOUT THE FLORIDA KEYS AND OVER SOUTH FLORIDA SHOULD NOT VENTURE FAR FROM PORT TONIGHT. ALL INTERESTS OVER SOUTH FLORIDA SHOULD KEEP IN CLOSE TOUCH WITH ALL BULLETINS AND ADVISORIES TONIGHT AND EARLY WEDNESDAY AND BE READY FOR QUICK ACTION EARLY WEDNESDAY MORNING SHOULD A MORE RAPID FORWARD SPEED TAKE PLACE TONIGHT OR VERY RAPID INTENSIFICATION TAKE PLACE OVER THE FLORIDA STRAITS WEDNESDAY.

SMALL CRAFT ON THE NORTH CUBAN COAST SHOULD SEEK SAFE HARBOR IMMEDIATELY AND SMALL CRAFT ALONG THE SOUTH CUBAN COAST AND THE NORTHERN CAYMANS SHOULD REMAIN IN SAFE HARBOR UNTIL WINDS AND SEAS SUBSIDE.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 11 PM EST WITH AN INTERMEDIATE BULLETIN AT 8 PM EST.

SUGG

BULLETIN FOR PRESS RADIO AND TV 8 PM EST AUGUST 25 1964

A GOOD PORTION OF THE HURRICANES CIRCULATION HAS BEEN OVER LAND DURING THE DAY. THE CENTER WAS ESTIMATED AT 8 PM EST ABOUT 75 MILES WEST OF CAMAGUEY CUBA NEAR LATITUDE 21.3 NORTH AND LONGITUDE 79.0 WEST. THIS IS 330 MILES SOUTH SOUTHEAST OF MIAMI.

CLEO IS MOVING TOWARD THE NORTHWEST 15 MPH AND HIGHEST WINDS ARE ESTIMATED AT 75 MPH OVER A SMALL AREA NEAR THE CENTER AND GALES IN SQUALLS EXTEND OUT 140 MILES IN ALL DIRECTIONS.

ALL INTERESTS IN CENTRAL CUBA SHOULD CONTINUE PRECAUTIONS AGAINST DESTRUCTIVE WINDS HEAVY RAINS AND HIGH TIDES.

INDICATIONS ARE FOR CONTINUED NORTHWEST MOVEMENT 15 MPH. THIS WILL KEEP A GOOD PORTION OF THE STORM OVER CUBA TONIGHT AND CAUSE IT TO BECOME DISORGANIZED. AS IT MOVES OUT OVER THE FLORIDA STRAITS WEDNESDAY IT SHOULD REORGANIZE SOME BUT HOW MUCH IS QUITE QUESTIONABLE. INTERESTS THRU EXTREME SOUTH FLORIDA SHOULD LISTEN FOR FUTURE ADVICES ESPECIALLY EARLY WEDNESDAY.

SMALL CRAFT FROM CENTRAL CUBA ACROSS THE FLORIDA STRAITS TO EXTREME SOUTH FLORIDA SHOULD REMAIN IN SAFE HARBOR.

THE NEXT ADVISORY WILL BE ISSUED AT 11 PM EST.

KRAFT

NUMBER 22 11 PM EST AUGUST 25 1964

REPORTS DURING THE PAST FEW HOURS ARE IN GOOD AGREEMENT AND AT 11 PM EST...0400Z...THE CENTER OF HURRICANE CLEO WAS NEAR LATITUDE 21.3N LONGITUDE 79.2W ABOUT 100 MILES WEST OF CAMAGUEY AND 300 STATUTE MILES SOUTHEAST OF KEY WEST FLORIDA.

THE HURRICANE IS MOVING TOWARD THE NORTHWEST 15 MPH. THE CENTER IS OUT OVER WATER AGAIN JUST OFF THE SOUTH COAST OF CUBA AND HIGHEST WINDS ARE ESTIMATED 80 MPH NEAR THE CENTER WITH GALES EXTENDING OUT 100 MILES IN ALL DIRECTIONS.

INDICATIONS ARE FOR CONTINUED NORTHWEST MOVEMENT AT 15 MPH CUTTING ACROSS CUBA LATER TONIGHT AND EARLY WEDNESDAY AND OUT OVER THE FLORIDA STRAITS WEDNESDAY.

THE HURRICANE WILL LOSE FORCE TONIGHT OVER CUBA BUT WILL PROBABLY REGAIN HURRICANE FORCE OVER THE FLORIDA STRAITS WEDNESDAY. ALL INTERESTS THRU CENTRAL CUBA SHOULD CONTINUE PRECAUTIONS AGAINST HIGH WINDS HEAVY RAINS AND HIGH TIDES. INTERESTS THRU THE FLORIDA KEYS SHOULD LISTEN FOR FUTURE ADVICES SINCE SOME WARNINGS WILL PROBABLY BE HOISTED FOR AT LEAST A PORTION OF THE KEYS WEDNESDAY.

SMALL CRAFT FROM CENTRAL CUBA ACROSS THE FLORIDA STRAITS TO EXTREME SOUTH FLORIDA SHOULD REMAIN IN SAFE HARBOR.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 AM EST WITH A BULLETIN AT 2 AM EST.

KRAFT

BULLETIN FOR PRESS RADIO AND TV 2 AM EST AUGUST 26 1964

AT 2 AM EST THE CENTER OF HURRICANE CLEO WAS ON THE SOUTH COAST OF CUBA ABOUT 80 MILES SOUTHEAST OF CIENFUEGOS NEAR LATITUDE 21.6N LONGITUDE 79.2W. THIS POSITION IS APPROXIMATELY 300 MILES SOUTHEAST OF KEY WEST. THE HURRICANE IS MOVING TOWARDS THE NORTHWEST AT ABOUT 13 MPH.

HIGHEST WINDS NEAR THE CENTER ARE ESTIMATED 80 MPH. GALES EXTEND OUT 100 MILES IN ALL DIRECTIONS.

THE HURRICANE IS EXPECTED TO CONTINUE ON A COURSE TO THE NORTHWEST AT ABOUT THE SAME RATE TODAY MOVING ACROSS CUBA AND INTO THE FLORIDA STRAITS. IT WILL LOSE CONSIDERABLE INTENSITY IN PASSING OVER LAND BUT PROBABLY REGAIN HURRICANE FORCE OVER THE FLORIDA STRAITS.

INTERESTS IN THE FLORIDA KEYS SHOULD KEEP IN CLOSE TOUCH WITH FUTURE ADVICES SINCE SQUALLINESS WILL BE GRADUALLY INCREASING AND SOME WARNINGS WILL PROBABLY BE HOISTED FOR AT LEAST A PORTION OF THE KEYS LATER TODAY. SMALL CRAFT FROM EXTREME SOUTH FLORIDA TO CENTRAL CUBA SHOULD REMAIN IN SAFE HARBOR.

ALL INTERESTS THROUGH CENTRAL CUBA SHOULD CONTINUE PRECAUTIONS AGAINST HIGH WINDS HEAVY RAINS AND HIGH TIDES.

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

MOORE

MIAMI

NUMBER 23 5 AM EST AUGUST 26 1964

HURRICANE CLEO HAS SHOWN A SLIGHT DECREASE IN RATE OF FORWARD MOVEMENT DURING THE NIGHT. AT 5 AM EST...1000Z...THE CENTER WAS LOCATED NEAR LATITUDE 22.0N LONGITUDE 79.4W OR ABOUT 70 MILES EASTSOUTHEAST OF CIENFUEGOS IN CENTRAL CUBA. THIS POSITION IS APPROXIMATELY 250 MILES SOUTHEAST OF KEY WEST FLORIDA. CLEO IS NOW MOVING TOWARD THE NORTHWEST AT ABOUT 10 MPH.

NO REPORTS HAVE BEEN RECEIVED FROM THE IMMEDIATE VICINITY OF THE CENTER DURING THE NIGHT BUT IT IS ESTIMATED THAT HIGHEST WINDS IN SQUALLS ARE HURRICANE FORCE.

GALES EXTEND OUTWARD ABOUT 90 MILES FROM THE CENTER. SOME WEAKENING WILL OCCUR OVER LAND BUT THE STORM WILL REGAIN HURRICANE FORCE OVER THE FLORIDA STRAITS LATER TODAY. IT IS EXPECTED TO CONTINUE TOWARDS THE NORTHWEST AT ABOUT 10 MPH DURING THE NEXT 12 HOURS.

INTERESTS IN THE FLORIDA KEYS SHOULD KEEP IN CLOSE TOUCH WITH FUTURE ADVISORIES. SQUALLINESS WILL BE INCREASING AND IT IS PROBABLE THAT WARNINGS WILL BE ISSUED FOR AT LEAST A PORTION OF THE AREA LATER TODAY. SMALL CRAFT FROM EXTREME SOUTH FLORIDA TO CENTRAL CUBA SHOULD REMAIN IN SAFE HARBOR.

ALL INTERESTS IN CENTRAL CUBA SHOULD CONTINUE PRECAUTIONS AGAINST HIGH WINDS HEAVY RAINS FLOODS AND HIGH TIDES.

THE NEXT ADVISORY WILL BE ISSUED AT 11 AM EST WITH AN INTERMEDIATE BULLETIN AT 8 AM EST.

MOORE

BULLETIN FOR PRESS RADIO AND TV 8 AM EST WEDNESDAY AUGUST 26 1964

HURRICANE CLEO IS APPARENTLY MOVING SLOWLY NORTHWESTWARD ACROSS CENTRAL CUBA THIS MORNING. NO REPORTS HAVE BEEN RECEIVED FROM THE IMMEDIATE VICINITY OF THE CENTER BUT IT WAS ESTIMATED TO BE ABOUT 30 MILES EAST OF THE CITY OF SANTA CLARA NEAR LATITUDE 22.3 NORTH LONGITUDE 79.6 WEST AT 8 AM EST.

THIS POSITION IS ABOUT 210 MILES SOUTHEAST OF KEY WEST AND 250 MILES SOUTH SOUTHEAST OF MIAMI.

CLEO HAS UNDOUBTEDLY WEAKENED CONSIDERABLY OVER LAND AND HIGHEST WINDS ARE NOW ESTIMATED BARELY OF HURRICANE FORCE IN SQUALLS NEAR THE CENTER. IT IS EXPECTED TO CONTINUE GENERALLY TOWARD THE NORTHWEST AT ABOUT 10 MPH TODAY. HOWEVER THE MOVEMENT IS LIKELY TO BE ERRATIC UNTIL THE CIRCULATION REGAINS ITS ORGANIZATION OVER THE FLORIDA STRAITS AND PICKS UP SOME OF ITS LOST FORCE THIS AFTERNOON.

INTERESTS IN THE FLORIDA KEYS SHOULD KEEP IN CLOSE TOUCH WITH FUTURE ADVISORIES. MINOR SQUALLINESS WILL DEVELOP OVER THE KEYS THIS AFTERNOON AND IT IS POSSIBLE THAT WARNINGS WILL BE ISSUED LATER TODAY FOR HIGHER WINDS FOR AT LEAST PART OF THE AREA.

SMALL CRAFT FROM EXTREME SOUTH FLORIDA TO CENTRAL CUBA SHOULD REMAIN IN SAFE HARBOR. ALL INTERESTS IN CENTRAL CUBA SHOULD CONTINUE PRECAUTIONS AGAINST HIGH WINDS HEAVY RAINS FLOODS AND HIGH TIDES.

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

MOORE

NUMBER 24 11 AM EST WEDNESDAY AUGUST 26 1964

HOIST GALE WARNINGS 1100E FORT LAUDERDALE SOUTHWARD ALONG THE FLORIDA KEYS TO SOMBRERO LIGHT. GALES WILL OCCUR MAINLY IN SQUALLS BEGINNING THIS AFTERNOON CONTINUING TONIGHT.

HURRICANE CLEO HAS MAINTAINED HER IDENTITY AFTER CROSSING CUBA DURING THE NIGHT. LAND BASED AND AIRBORNE RADAR INDICATE THAT AT 11 AM EST...1600Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 23.1 NORTH LONGITUDE 79.3 WEST OR ABOUT 200 MILES SOUTH SOUTHEAST OF MIAMI. HIGHEST WINDS ARE ESTIMATED NEAR 75 MPH NEAR THE CENTER WITH GALES IN SQUALLS EXTENDING OUTWARD AROUND 90 MILES IN ALL DIRECTIONS. THE HURRICANE IS MOVING TOWARD THE NORTH NORTHWEST NEAR 10 MPH AND IS EXPECTED TO CONTINUE ON THIS COURSE AND SPEED DURING THE NEXT 12 HOURS GRADUALLY TURNING TO A MORE NORTHERLY COURSE WITH A GRADUAL INCREASE IN FORWARD SPEED TONIGHT AND THURSDAY. GRADUAL INTENSIFICATION IS FORECAST. THE FORECAST TRACK WOULD TAKE THE CENTER OVER THE GULF STREAM PROBABLY PASSING EAST OF MIAMI EARLY THURSDAY. A MORE DEFINITE TRACK AND ESTIMATE OF CLEOS STRENGTH WILL BE FORTHCOMING WHEN THE CENTER HAS PASSED FAR ENOUGH NORTH OF THE CUBAN COAST FOR AIRCRAFT PENETRATION.

INTERESTS OVER SOUTH FLORIDA SHOULD KEEP IN CLOSE TOUCH WITH FUTURE ADVISORIES SINCE A SLIGHT DISPLACEMENT OF THE FORECAST TRACK TO THE WEST COULD BRING HURRICANE CLEO TO SOUTHEAST FLORIDA.

SMALL CRAFT ALONG THE SOUTHEAST FLORIDA COAST AND KEYS AND WESTERN BAHAMAS SHOULD REMAIN IN SAFE HARBOR.

GALES WILL OCCUR IN THE EXTREME WESTERN BAHAMAS THIS AFTERNOON AND TONIGHT AND HURRICANE FORCE WINDS ARE LIKELY AROUND BIMINI TONIGHT.

SOME HEAVY RAIN AND SQUALLS WILL BEGIN ALONG THE SOUTHEAST FLORIDA COAST THE UPPER KEYS AND THE EXTREME WESTERN BAHAMAS THIS AFTERNOON CONTINUING INTO THE NIGHT.

WINDS AND HEAVY RAINS WILL GRADUALLY SUBSIDE OVER CENTRAL CUBA.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 PM EST WITH AN INTERMEDIATE BULLETIN AT 1 AND 3 PM.

SUGG

BULLETIN FOR PRESS RADIO AND TV 12 NOON EST WEDNESDAY AUGUST 26 1964

A FULL HURRICANE WATCH IS IN EFFECT 12 NOON EST ALONG THE LOWER EAST COAST OF FLORIDA FROM WEST PALM BEACH TO KEY LARGO. IT APPEARS HURRICANE CLEO IS REINTENSIFYING FAIRLY RAPIDLY AND ACCELERATING SLIGHTLY. WHILE THE PROJECTED PATH TAKES THE CENTER NORTHWARD BETWEEN MIAMI AND BIMINI A SLIGHT WESTWARD DISPLACEMENT OF THIS COURSE WOULD RESULT IN HURRICANE CONDITIONS ALONG THE LOWER EAST COAST. THEREFORE PRELIMINARY PRECAUTIONS AND THE PLACING OF SMALL CRAFT IN SAFE HARBOR SHOULD PROCEED IMMEDIATELY.

AT 12 NOON EST HURRICANE CLEO WAS LOCATED AT APPROXIMATELY LATITUDE 23.5 NORTH LONGITUDE 79.5 WEST MOVING NORTH NORTHWESTWARD 12 MPH. RECONNAISSANCE AIRCRAFT MEASURED 85 MPH WINDS 15 MILES WEST OF THE CENTER LATE THIS MORNING. WINDS ARE LIKELY TO INCREASE TO

MIAMI

100 MPH OR SOMEWHAT HIGHER AS THE HURRICANE PASSES ABEAM OF MIAMI EARLY THIS EVENING. ALL INTERESTS IN SOUTHEAST FLORIDA AND THE WESTERN BAHAMAS SHOULD KEEP IN TOUCH WITH BULLETINS AND ADVISORIES DURING THE REMAINDER OF THE DAY.

AGAIN SMALL CRAFT ALONG THE LOWER EAST COAST OF FLORIDA SHOULD BE TAKEN TO PLACES OF SAFETY IMMEDIATELY AND RESIDENTS SHOULD BE PREPARED TO TAKE QUICK ACTION IN CASE HURRICANE WARNINGS ARE HOISTED IN THIS AREA DURING THE NEXT FEW HOURS.

BULLETINS WILL BE ISSUED AT FREQUENT INTERVALS THIS AFTERNOON AS REQUIRED.

DUNN

NUMBER 25 2 PM EST WEDNESDAY AUGUST 26 1964

HOIST HURRICANE WARNINGS 2 PM EST ALONG THE LOWER EAST COAST OF FLORIDA FROM WEST PALM BEACH TO KEY LARGO.

GALE WARNINGS REMAIN IN EFFECT SOUTH OF KEY LARGO TO SOMBRERO LIGHT AND ARE EXTENDED OVER THE FLORIDA BAY INCLUDING FLAMINGO AND EVERGLADES CITY AND NORTHWARD OVER LAKE OKEECHOBEE AND NORTH OF WEST PALM BEACH TO CAPE KENNEDY.

A HURRICANE WATCH IS IN EFFECT NORTH OF WEST PALM BEACH TO CAPE KENNEDY.

DANGEROUS HURRICANE CLEO CONTINUES TO MOVE TOWARD THE SOUTHEAST FLORIDA COAST AND SAFETY PRECAUTIONS AGAINST HURRICANE WINDS HEAVY RAIN AND ABOVE NORMAL TIDES SHOULD BEGIN IMMEDIATELY AND RUSHED TO COMPLETION WITH ALL POSSIBLE URGENCY IN THE AREA OF HURRICANE WARNING DISPLAY FROM WEST PALM BEACH TO KEY LARGO.

AT 2 PM EST...1900Z...THE CENTER OF THE WELL ORGANIZED AND INTENSIFYING HURRICANE CLEO WAS CENTERED BY LAND BASED RADAR AND AIR RECONNAISSANCE NEAR LATITUDE 24.0 NORTH LONGITUDE 79.7 WEST OR ABOUT 125 MILES SOUTH SOUTHEAST OF MIAMI. CLEO IS MOVING ON A COURSE TOWARD THE NORTH NORTHWEST AT 17 MPH AND IS EXPECTED TO BE JUST A VERY SHORT DISTANCE SOUTH SOUTHEAST OF MIAMI EARLY THIS EVENING. THE PROJECTED TRACK WOULD TAKE THE HURRICANE VERY NEAR THE SOUTHEASTERN FLORIDA COAST LATER THIS EVENING WITH A TURN MORE TO THE NORTH AND NO IMPORTANT CHANGE IN FORWARD SPEED LATE TONIGHT AND EARLY THURSDAY.

HIGHEST WINDS ARE ESTIMATED TO 110 TO 125 MPH NEAR THE CENTER. HURRICANE FORCE WINDS WILL EXTEND 50 MILES FROM THE CENTER AND GALES AROUND 100 MILES IN ALL DIRECTIONS.

SMALL CRAFT ALONG THE SOUTHEAST FLORIDA COAST SHOULD SEEK SAFE HARBOR IMMEDIATELY AND SMALL CRAFT ELSEWHERE ALONG THE EAST FLORIDA COAST SHOULD REMAIN IN PORT.

GALES AND POSSIBLE HURRICANE FORCE WINDS ARE EXPECTED IN THE EXTREME WESTERN BAHAMAS ESPECIALLY AROUND BIMINI BY EARLY EVENING.

HURRICANE CLEO IS EXPECTED TO SKIRT THE SOUTHEAST FLORIDA COAST TONIGHT HOWEVER A SLIGHTLY MORE NORTHWESTERLY COURSE WOULD MEAN A DIRECT HIT ON THE COAST. THIS WOULD MEAN THAT STORM TIDES OF POSSIBLY 8 FEET WOULD DEVELOP NEAR AND JUST NORTH OF THE CENTER.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 PM EST. INTERMEDIATE BULLETINS WILL BE ISSUED AS REQUIRED.

SUGG

BULLETIN FOR PRESS RADIO AND TV 3PM EST WEDNESDAY AUGUST 26 1964

HURRICANE WARNINGS ARE DISPLAYED ALONG THE LOWER EAST COAST OF FLORIDA FROM WEST PALM BEACH TO KEY LARGO WITH GALE WARNINGS ELSEWHERE SOMBRERO LIGHT TO CAPE KENNEDY INCLUDING FLAMINGO EVERGLADES CITY AND LAKE OKEECHOBEE.

AT 3 PM EST THE CENTER OF WELL ORGANIZED AND INTENSIFYING HURRICANE CLEO WAS CENTERED NEAR LATITUDE 23.9 NORTH LONGITUDE 79.7 WEST OR ABOUT 115 MILES SOUTH SOUTHEAST OF MIAMI. CLEO CONTINUES TO MOVE TOWARD THE GREATER MIAMI AREA AT 14 TO 17 MPH. HIGHEST WINDS ARE ESTIMATED 110 TO 125 MPH OVER A SMALL AREA NEAR THE CENTER.

ALL POSSIBLE HURRICANE PRECAUTIONS INCLUDING BOARDING UP REMOVAL OF SMALL CRAFT TO SAFE REFUGE EVACUATION OF PERSONS WHOSE RESIDENCES COULD BE AFFECTED BY AN 8 FOOT TIDE SHOULD BE COMPLETED DURING THE NEXT SEVERAL HOURS. GALE WINDS WILL BE MOVING INTO THE GREATER MIAMI AREA BY 530 OR 6 PM. THE LEADING EDGE OF THE RAIN AREA IS APPROACHING THE SOUTH END OF KEY BISCAINE.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 PM EST WITH AN INTERMEDIATE BULLETIN AT 4 PM EST IF REQUIRED.

DUNN

NUMBER 26 5 PM EST AUGUST 26 1964

HURRICANE WARNINGS ARE DISPLAYED ALONG THE LOWER EAST COAST OF FLORIDA FROM WEST PALM BEACH INCLUDING THE JUPITER INLET SECTION TO KEY LARGO WITH GALE WARNINGS ELSEWHERE SOMBRERO LIGHT TO CAPE KENNEDY INCLUDING FLAMINGO EVERGLADES CITY AND LAKE OKEECHOBEE.

A HURRICANE WATCH IS IN EFFECT NORTH OF JUPITER INLET TO CAPE KENNEDY.

DANGEROUS HURRICANE CLEO CONTINUES TO MOVE TOWARD THE SOUTHEAST FLORIDA COAST AND EMERGENCY PRECAUTIONS AGAINST HURRICANE WINDS HEAVY RAINS AND TIDES 4 TO 7 FEET ABOVE NORMAL SHOULD BE RUSHED TO COMPLETION WITHIN THE NEXT HOUR OR TWO IN THE AREA OF HURRICANE WARNING DISPLAY.

AT 5 PM EST...2200Z...THE CENTER OF HURRICANE CLEO WAS CENTERED BY LAND BASED RADAR NEAR LATITUDE 24.5 NORTH LONGITUDE 79.8 WEST OR ABOUT 100 MILES SOUTH SOUTHEAST OF MIAMI. CLEO CONTINUES TOWARD THE NORTH NORTHWEST AT ABOUT 14 MPH AND THE CENTER SHOULD BE VERY CLOSE TO GREATER MIAMI AREA BY 11 PM. THE FIRST SQUALL FROM THE HURRICANE PASSED OVER MIAMI ABOUT 0330 PM WITH WINDS BRIEFLY UP TO 40 MPH. HEAVIER SQUALLS CAN BE EXPECTED BY DARK.

WHILE THE HURRICANE HAS BEEN STEADILY INTENSIFYING PREVIOUS ESTIMATES WERE PROBABLY ON THE HIGH SIDE. MAXIMUM WINDS ARE EXPECTED TO BE 100 TO 110 MPH OVER A SMALL AREA NEAR THE CENTER WHEN IT PASSES CLOSEST TO MIAMI. SMALL CRAFT ALONG THE SOUTHEAST FLORIDA COAST SHOULD REMAIN IN SAFE HARBOR AND SHOULD REMAIN IN PORT ALONG THE NORTHEAST COAST. GALES AND PROBABLY HURRICANE FORCE WINDS ARE EXPECTED IN THE EXTREME WESTERN BAHAMAS AND ESPECIALLY BY EARLY THIS EVENING AROUND BIMINI.

HURRICANE CLEO WILL CONTINUE ON ABOUT THE SAME COURSE DURING THE NEXT 12 HOURS BUT ASSUMING A MORE NEARLY DUE NORTHERLY COURSE WITH TIME.

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

DUNN

MIAMI

BULLETIN FOR PRESS RADIO AND TV 6 PM EST WEDNESDAY AUGUST 26 1964

RECONNAISSANCE AIRCRAFT PENETRATED THE STORM WITHIN THE HOUR AND THE REPORTS INDICATE THAT HURRICANE CLEO HAS INTENSIFIED SLOWLY DURING THE DAY. THE LATEST CENTRAL PRESSURE WAS 29.06 INCHES AND THE HIGHEST WINDS ARE ESTIMATED AT 90 MPH.

FROM THE LATEST PLOTS OF THE CENTER IT IS MOVING NORTHWARD ABOUT 12 MPH AND SHOULD PASS NEAR OR A LITTLE EAST OF MIAMI ABOUT MIDNIGHT. IT IS NOW CENTERED ABOUT 100 MILES SOUTH SOUTHEAST OF THE GREATER MIAMI AREA NEAR LATITUDE 24.4N LONGITUDE 79.6W.

WINDS AND TIDES WILL GRADUALLY INCREASE BUT IF THE CENTER STAYS A LITTLE OFFSHORE AS WE EXPECT IT TO DO THE WINDS AND TIDES WILL STAY LESS THAN THE MAXIMUM CARRIED BY THE HURRICANE. IT WILL PROBABLY PACK 100 MPH WINDS AND A TIDE POTENTIAL OF 7 FEET WHEN CLOSEST TO MIAMI.

THE NEXT ADVISORY AT 11 PM EST WITH INTERMEDIATE BULLETINS.

KRAFT

BULLETIN FOR PRESS RADIO AND TV 7 PM EST AUGUST 26 1964

THERE HAVE BEEN NO IMPORTANT CHANGES DURING THE PAST HOUR. AT 7 PM EST THE CENTER WAS ABOUT 90 MILES SOUTH SOUTHEAST OF GREATER MIAMI NEAR LATITUDE 24.6N LONGITUDE 79.6W. THE HURRICANE CONTINUES MOVING TOWARD THE NORTH ABOUT 12 MPH. THE CENTER WILL PROBABLY STAY A SHORT DISTANCE OFFSHORE AND PASS THE MIAMI AREA AFTER MIDNIGHT AND THE PALM BEACH AREA NEAR DAYBREAK.

THE HURRICANE IS EXPECTED TO HAVE WINDS NEAR THE CENTER UP TO 100 MPH AND A TIDE POTENTIAL OF 7 FEET.

HOWEVER IF THE HURRICANE FOLLOWS THE ANTICIPATED TRACK THESE EXTREME CONDITIONS WILL OCCUR JUST OFFSHORE.

KRAFT

BULLETIN FOR PRESS RADIO AND TV 8 PM EST AUGUST 26 1964

HURRICANE CLEO HAS CONTINUED ITS NORTHWARD MOVEMENT OF 12 MPH DURING THE PAST HOUR. INDICATIONS ARE THAT IT WILL CONTINUE ON THIS COURSE. THIS ANTICIPATED PATH WILL CARRY THE HEAVIEST WEATHER AND STRONGEST WINDS A SHORT DISTANCE OFFSHORE FROM MIAMI A LITTLE AFTER MIDNIGHT AND OFFSHORE PALM BEACH NEAR DAYBREAK. THIS PATH WOULD SPARE SOUTHEAST FLORIDA THE BRUNT OF THIS HURRICANE WITH THE HIGHEST WINDS OF 100 MPH AND TIDE POTENTIAL OF 7 FEET REMAINING JUST OFFSHORE.

AT 8 PM EST HURRICANE CLEO WAS ABOUT 80 MILES SOUTH SOUTHEAST OF GREATER MIAMI NEAR LATITUDE 24.7N LONGITUDE 79.6W.

THE BIMINI ISLANDS AND WESTERN GRAND BAHAMA ISLAND WILL FEEL THE FULL FORCE OF THIS HURRICANE.

THE NEXT ADVISORY WILL BE AT 11 PM EST.

KRAFT

BULLETIN FOR PRESS RADIO AND TV 9 PM EST AUGUST 26 1964

AT 9 PM EST HURRICANE CLEO WAS CENTERED NEAR LATITUDE 24.9N LONGITUDE 79.7W OR ABOUT 60 MILES SOUTHEAST OF GREATER MIAMI.

IT CONTINUES MOVING TOWARD THE NORTH ABOUT 12 MPH AND IS EXPECTED TO STAY OFFSHORE PASSING MIAMI A LITTLE AFTER MIDNIGHT AND PALM BEACH ABOUT DAYBREAK.

NEXT ADVISORY AT 11 PM EST.

KRAFT

BULLETIN FOR PRESS RADIO AND TV 10 PM EST AUGUST 26 1964

AT 10 PM EST HURRICANE CLEO WAS CENTERED NEAR LATITUDE 25.1N LONGITUDE 79.8W OR ABOUT 50 MILES SOUTHEAST OF GREATER MIAMI.

IT TURNED A LITTLE TOWARD THE NORTHWEST DURING THE PAST HOUR BUT THIS IS PROBABLY ONLY TEMPORARY AND NORTHWARD MOVEMENT A SHORT DISTANCE OFFSHORE IS EXPECTED WITH THE CENTER PASSING EAST OF PALM BEACH ABOUT DAYBREAK.

THE NEXT ADVISORY WILL BE ISSUED AT 11 PM EST.

KRAFT

NUMBER 27 11 PM EST AUGUST 26 1964

HURRICANE WARNINGS REMAIN DISPLAYED FROM FOWEY ROCK TO JUPITER INLET AND GALE WARNINGS NORTHWARD TO CAPE KENNEDY. LOWER WARNINGS ELSEWHERE AT 11 PM EST.

HURRICANE CLEO WAS CENTERED ABOUT 45 MILES SOUTHEAST OF MIAMI AT 11 PM EST...0400Z...NEAR LATITUDE 25.3N LONGITUDE 79.8W.

THE HURRICANE IS MOVING NORTHWARD ABOUT 12 MPH AND IS EXPECTED TO CONTINUE ON THIS COURSE FOR THE NEXT 12 HOURS WITH THE CENTER STAYING JUST OFFSHORE.

HIGHEST WINDS ARE ESTIMATED 85 MPH NEAR THE CENTER AND GALES EXTEND OUTWARD 100 MILES. THE HURRICANE IS STRONG ENOUGH TO PUT TIDES UP TO 6 FEET BUT THESE WOULD BE MAINLY EAST OF THE CENTER.

WITH THE HURRICANE PASSING SO CLOSE TO THE LAND IT BECOMES A RATHER PRECARIOUS SITUATION AS TO WHAT CONDITIONS WILL ACTUALLY PREVAIL ON THE SHORE. IF THE TRACK STAYS JUST OFFSHORE AS INDICATED WINDS OF ABOUT 50 MPH AND TIDES 3 FEET ABOVE NORMAL WILL PREVAIL. ON THE OTHER HAND IF THE CENTER WERE TO MOVE JUST INLAND 85 MPH WINDS AND 6 FOOT TIDES WOULD OCCUR. FOR THIS REASON ALL INTERESTS FROM THE MIAMI AREA TO NORTH OF PALM BEACH SHOULD WATCH THE FUTURE ADVICES EVEN THOUGH AT PRESENT THE CHANCE OF THE HURRICANE MOVING INLAND APPEARS SLIGHT.

THE NEXT ADVISORY WILL BE ISSUED AT 5 AM EST WITH INTERMEDIATE BULLETINS.

KRAFT

MIAMI

BULLETIN 1 AM EST AUGUST 27 1964

HURRICANE CLEO WAS CENTERED ABOUT 25 MILES SOUTHEAST OF MIAMI IN LATITUDE 25.5N LONGITUDE 80.0W AT 1 AM EST. THE DIRECTION OF MOVEMENT IS SLIGHTLY WEST OF NORTH AT ABOUT 12 MPH. THIS MEANS THAT THE CENTER WILL BE VERY NEAR AND POSSIBLY ON SHORE AS IT MOVES UP THE COAST BETWEEN MIAMI AND PALM BEACH.

THE CENTER WILL PASS A VERY SHORT DISTANCE EAST OF MIAMI WITHIN THE NEXT TWO HOURS. WINDS IN THE AREA BETWEEN MIAMI AND PALM BEACH WILL RANGE FROM 60 TO 80 MPH IN SQUALLS. TIDES WILL RANGE FROM 3 TO 6 FEET WITH THE HIGHEST TIDES LIKELY BETWEEN FORT LAUDERDALE AND PALM BEACH. ALL PRECAUTIONS SHOULD BE CONTINUED AGAINST THESE HURRICANE CONDITIONS.

HURRICANE WARNINGS REMAIN DISPLAYED FROM FOWEY ROCK TO JUPITER INLET AND GALE WARNINGS NORTHWARD TO CAPE KENNEDY.

THE NEXT REGULAR ADVISORY WILL BE AT 5 AM WITH INTERMEDIATE BULLETINS AS WARRANTED.

MOORE

NUMBER 28 3 AM EST AUGUST 27 1964

HOIST HURRICANE WARNINGS FROM JUPITER INLET TO VERO BEACH AND GALE WARNINGS ON LAKE OKEECHOBEE.

HURRICANE WARNINGS ARE NOW DISPLAYED FROM FOWEY ROCK NEAR MIAMI NORTHWARD TO VERO BEACH AND GALE WARNINGS NORTHWARD TO CAPE KENNEDY AND ON LAKE OKEECHOBEE.

THE CENTER OF HURRICANE CLEO MOVED OVER MIAMI BEACH DURING THE LAST HOUR AND AT 3 AM EST...0800Z...WAS CENTERED AT LATITUDE 25.8N LONGITUDE 80.1W. GUSTS UP TO 115 MPH AND SUSTAINED WINDS OF NEAR 100 MPH WERE RECORDED ON THE WESTERN EDGE OF THE EYE IN MIAMI.

THE HURRICANE HAS INTENSIFIED AND MAXIMUM WINDS ARE ESTIMATED 120 MPH IN THE EASTERN SEMICIRCLE. IT IS EXPECTED TO MOVE NORTHWARD AT 11 MPH DURING THE NEXT 12 HOURS.

ALL PRECAUTIONS AGAINST DANGEROUS WINDS AND TIDES SHOULD BE TAKEN IN THE WARNING AREA AND PARTICULARLY FROM FORT LAUDERDALE TO PALM BEACH WHERE WINDS MAY REACH IN EXCESS OF 100 MPH AND TIDES 5 TO 7 FEET ABOVE NORMAL.

ALL INTERESTS ELSEWHERE ALONG THE FLORIDA EAST COAST AND NEAR LAKE OKEECHOBEE SHOULD KEEP IN CLOSE TOUCH WITH ADVISORIES THIS MORNING.

THE NEXT ADVISORY WILL BE ISSUED FROM THE MIAMI WEATHER BUREAU AT 5 AM EST WITH AN INTERMEDIATE BULLETIN AT 4 AM EST.

MOORE

BULLETIN 4 AM EST AUGUST 27 1964

AT 4 AM EST THE CENTER OF HURRICANE CLEO WAS OVER NORTH MIAMI NEAR LATITUDE 25.9N LONGITUDE 80.1W. IT IS MOVING NORTHWARD AT ABOUT 11 MPH AND IS EXPECTED TO CONTINUE A GENERAL NORTHWARD MOTION FOR THE NEXT 12 HOURS.

WINDS IN THE SOUTH MIAMI AREA HAVE SHIFTED TO WESTERLY AND ARE INCREASING RAPIDLY AS THE EYE MOVES NORTHWARD. COASTAL STATIONS IN THE MIAMI AREA WERE IN THE EYE AROUND 1 HOUR.

HURRICANE WARNINGS ARE NOW DISPLAYED FROM FOWEY ROCK NEAR MIAMI NORTHWARD TO VERO BEACH AND GALE WARNINGS ON NORTHWARD TO CAPE KENNEDY AND ON LAKE OKEECHOBEE.

ALL PRECAUTIONS AGAINST DANGEROUS WINDS AND TIDES SHOULD BE TAKEN IN THE WARNING AREA AND PARTICULARLY FROM FORT LAUDERDALE TO PALM BEACH WHERE WINDS MAY REACH IN EXCESS OF 100 MPH AND TIDES 5 TO 7 FEET ABOVE NORMAL.

INTEREST ELSEWHERE ALONG THE FLORIDA EAST COAST AND NEAR LAKE OKEECHOBEE SHOULD KEEP IN CLOSE TOUCH WITH ADVISORIES THIS MORNING.

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

FRANK

NUMBER 29 5 AM EST AUGUST 27 1964

HOIST HURRICANE WARNINGS VERO BEACH TO CAPE KENNEDY AND GALE WARNINGS NORTHWARD TO DAYTONA BEACH.

HURRICANE WARNINGS ARE NOW DISPLAYED FROM FOWEY ROCK LIGHT TO CAPE KENNEDY AND GALE WARNINGS FROM CAPE KENNEDY TO DAYTONA BEACH AND ON LAKE OKEECHOBEE. ALL INTERESTS IN THE AREA OF WARNINGS SHOULD CONTINUE OR COMPLETE ALL PRECAUTIONARY MEASURES. WINDS OF 100 MPH OR MORE WILL OCCUR DURING THE NEXT FEW HOURS FROM THE PRESENT LOCATION OF THE CENTER NORTHWARD TO THE VICINITY OF THE PALM BEACHES WITH INCREASING WINDS SPREADING NORTHWARD WITH GALE TO HURRICANE FORCE ELSEWHERE OVER THE WARNING DISPLAY AREA TODAY.

TIDES WILL BE 5 TO 7 FEET ABOVE NORMAL IN THE AREA FROM FORT LAUDERDALE TO PALM BEACH AND MAY RANGE UP TO 5 FEET NORTHWARD TO CAPE KENNEDY.

HURRICANE CLEO WAS CENTERED NEAR MIAMI AT LATITUDE 26.1N LONGITUDE 80.2W AT 5 AM EST...1000Z...IT IS MOVING TOWARD THE NORTH NORTHWEST AT ABOUT 11 MPH. THIS COURSE WILL TAKE THE CENTER SLIGHTLY INLAND OVER SOUTH FLORIDA AND IT IS EXPECTED TO REACH THE COAST AGAIN NEAR VERO BEACH THIS AFTERNOON.

SMALL CRAFT AROUND FLORIDA AND THE NORTHWESTERN BAHAMAS SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO THE GEORGIA COAST SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT ADVISORY WILL BE ISSUED AT 11 AM EST WITH INTERMEDIATE BULLETINS AT FREQUENT INTERVALS.

MOORE

WASHINGTON

BULLETIN 7 AM EST AUGUST 27 1964

AT 7 AM EST THE CENTER OF HURRICANE CLEO WAS NEAR POMPAO BEACH FLORIDA NEAR LATITUDE 26.2N LONGITUDE 80.2W AND WAS MOVING NORTH ABOUT 11 MPH. HURRICANE CLEO IS FORECAST TO MOVE NORTHWARD AT ABOUT 11 MPH TODAY THEN GRADUALLY TURN NORTHEAST TONIGHT.

HURRICANE WARNINGS ARE DISPLAYED FROM FOWEY ROCK NORTHWARD TO CAPE KENNEDY AND GALE WARNINGS FROM CAPE KENNEDY NORTHWARD TO DAYTONA BEACH AND ON LAKE OKEECHOBEE.

ALL PRECAUTION AGAINST DANGEROUS WINDS AND HIGH TIDES SHOULD BE TAKEN IMMEDIATELY IN THE WARNING AREA. THE WINDS NORTH OF THE HURRICANE WILL GRADUALLY INCREASE AS THE HURRICANE APPROACHES AND MAY EXCEED 100 MPH WITH TIDES INCREASING TO 5 TO 7 FEET ABOVE NORMAL SOME 50 MILES NORTH OF THE HURRICANE CENTER.

INTERESTS ELSEWHERE ALONG THE FLORIDA EAST COAST AND NEAR LAKE OKEECHOBEE SHOULD KEEP IN CLOSE TOUCH WITH ADVISORIES AND BULLETINS TODAY.

THE NEXT ADVISORY WILL BE ISSUED AT 11 AM EST WITH INTERMEDIATE BULLETINS AT FREQUENT INTERVALS.

HOOVER

BULLETIN 8 AM EST AUGUST 27 1964

AT 8 AM EST THE CENTER OF HURRICANE CLEO WAS NEAR BOCA RATON ABOUT 47 MILES NORTH OF MIAMI NEAR LATITUDE 26.4 NORTH LONGITUDE 80.2 WEST. CLEO CONTINUES TO MOVE NORTHWARD ABOUT 11 MPH AND ABOUT THE SAME DIRECTION AND SPEED IS EXPECTED TO CONTINUE DURING TODAY AND POSSIBLY A GRADUAL TURN TO THE NORTHEAST TONIGHT.

HURRICANE WARNINGS ARE DISPLAYED FROM FOWEY ROCK LIGHTHOUSE NORTHWARD TO CAPE KENNEDY AND GALE WARNINGS FROM CAPE KENNEDY NORTHWARD TO DAYTONA BEACH AND LAKE OKEECHOBEE.

ALL PRECAUTIONS AGAINST DANGEROUS WINDS AND HIGH TIDES SHOULD BE CONTINUED IN THE WARNING AREA. WINDS NORTH OF THE HURRICANE WILL INCREASE AS THE HURRICANE APPROACHES AND WILL EXCEED 100 MPH WITH TIDES INCREASING TO 5 TO 7 FEET ABOVE NORMAL SOME 50 MILES NORTH OF THE HURRICANE CENTER. INTERESTS ELSEWHERE ALONG THE FLORIDA EAST COAST AND NEAR LAKE OKEECHOBEE SHOULD KEEP IN CLOSE TOUCH WITH ADVISORIES AND BULLETINS TODAY.

BOCA RATON HAS REPORTED WINDS UP TO 115 MPH BUT WINDS IN THE GREATER MIAMI AREA HAVE NOW DECREASED TO ABOUT 35 MPH.

THE NEXT ADVISORY WILL BE ISSUED AT 11 AM EST WITH INTERMEDIATE BULLETINS AT FREQUENT INTERVALS.

SCHMIDT

BULLETIN 9 AM EST AUGUST 27 1964

AT 9 AM EST THE CENTER OF HURRICANE CLEO WAS NEAR WEST PALM BEACH NEAR LATITUDE 26.6 NORTH LONGITUDE 80.2 WEST.

CLEO CONTINUES TO MOVE NORTHWARD ABOUT 11 MPH. WINDS IN THE WEST PALM BEACH AREA HAVE BEEN REPORTED UP TO 85 MPH WITH GUSTS TO 105 MPH.

HURRICANE WARNINGS REMAIN DISPLAYED FROM FOWEY ROCK LIGHTHOUSE NORTHWARD TO CAPE KENNEDY AND GALE WARNINGS FROM CAPE KENNEDY NORTHWARD TO DAYTONA BEACH AND LAKE OKEECHOBEE.

ALL PRECAUTIONS AGAINST DANGEROUS WINDS AND HIGH TIDES SHOULD BE CONTINUED IN THE WARNING AREA. WINDS NORTH OF THE HURRICANE WILL INCREASE AS THE HURRICANE APPROACHES AND WILL EXCEED 100 MPH WITH TIDES INCREASING TO 5 TO 7 FEET ABOVE NORMAL SOME 50 MILES NORTH OF THE HURRICANE CENTER.

THE NEXT ADVISORY WILL BE ISSUED AT 11 AM EST.

SCHMIDT

MIAMI

NUMBER 30 11 AM EST AUGUST 27 1964

EXTEND GALE WARNINGS AND A HURRICANE WATCH NORTHWARD FROM CAPE KENNEDY TO CHARLESTON SOUTH CAROLINA. HURRICANE WARNINGS ARE NOW DISPLAYED NORTH OF BOCA RATON TO CAPE KENNEDY AND GALE WARNINGS NORTHWARD TO CHARLESTON AND ON LAKE OKEECHOBEE. WARNINGS HAVE BEEN LOWERED FROM BOCA RATON SOUTHWARD.

ALL PRECAUTIONS AGAINST DANGEROUS WINDS AND TIDES SHOULD BE CONTINUED OR RUSHED TO COMPLETION IN THE WARNING AREA. WINDS OF 100 MPH OR MORE WILL PROGRESS UP THE FLORIDA EAST COAST A SHORT DISTANCE IN ADVANCE OF THE CENTER DURING THE NEXT FEW HOURS PARTICULARLY IN THE AREA NORTHWARD TO ABOUT VERO BEACH. WINDS OF HURRICANE FORCE OR HIGHER SHOULD BE ANTICIPATED IN THE VICINITY OF CAPE KENNEDY EARLY THIS AFTERNOON. INTERESTS FARTHER NORTH TO THE SOUTH CAROLINA COAST SHOULD ALSO KEEP IN CLOSE TOUCH WITH ADVISORIES. TIDES WILL BE 4 TO 7 FEET ABOVE NORMAL IN THE AREA OF HURRICANE WARNING DISPLAY.

AT 11 AM EST...1600Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 27.0 NORTH LONGITUDE 80.3 WEST NEAR STUART FLORIDA. IT IS MOVING TOWARD THE NORTH AT A SLIGHTLY FASTER RATE OF ABOUT 14 MPH. THE HURRICANE IS EXPECTED TO CONTINUE THIS SAME MOVEMENT DURING THE DAY AND EARLY TONIGHT WITH THE CENTER PROBABLY MOVING INTO THE ATLANTIC NEAR CAPE KENNEDY.

THIS IS A RATHER SMALL BUT DANGEROUS HURRICANE AND ALL INTERESTS SHOULD KEEP IN CLOSE TOUCH WITH FUTURE ADVICES.

SMALL CRAFT AROUND THE FLORIDA PENINSULA NORTHWARD TO CHARLESTON SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO CAPE HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED AT 5 PM EST WITH INTERMEDIATE BULLETINS.

MOORE

BULLETIN 12 NOON AUGUST 27 1964

GALE WARNINGS AND A HURRICANE WATCH ARE IN EFFECT FROM CAPE KENNEDY TO CHARLESTON SOUTH CAROLINA. HURRICANE WARNINGS ARE NOW DISPLAYED NORTH OF BOCA RATON TO CAPE KENNEDY AND GALE WARNINGS NORTHWARD TO CHARLESTON AND ON LAKE OKEECHOBEE. WARNINGS HAVE BEEN LOWERED FROM BOCA RATON SOUTHWARD.

MIAMI

ALL PRECAUTIONS AGAINST DANGEROUS WINDS AND TIDES SHOULD BE CONTINUED OR RUSHED TO COMPLETION IN THE WARNING AREA. WINDS OF 100 MPH OR MORE WILL PROGRESS UP THE FLORIDA EAST COAST A SHORT DISTANCE IN ADVANCE OF THE CENTER DURING THE NEXT FEW HOURS PARTICULARLY IN THE AREA NORTHWARD TO ABOUT VERO BEACH. WINDS OF HURRICANE FORCE OR HIGHER SHOULD BE ANTICIPATED IN THE VICINITY OF CAPE KENNEDY EARLY THIS AFTERNOON. INTERESTS FARTHER NORTH TO THE SOUTH CAROLINA COAST SHOULD ALSO KEEP IN CLOSE TOUCH WITH ADVISORIES. TIDES WILL BE 4 TO 7 FEET ABOVE NORMAL IN THE AREA OF HURRICANE WARNINGS DISPLAY.

AT 12 NOON HURRICANE CLEO WAS CENTERED NEAR LATITUDE 27.1 NORTH LONGITUDE 80.5 WEST OR A SHORT DISTANCE SOUTHWEST OF STUART FLORIDA. THIS INDICATES THAT THE CENTER MAY HAVE TAKEN A TURN TOWARD THE NORTHWEST DURING THE LAST HOUR HOWEVER A GENERAL COURSE IS FORECAST FOR THE NEXT SEVERAL HOURS AT A FORWARD SPEED OF AROUND 14 MPH. THIS SLIGHT CHANGE IN COURSE MAY ALSO BE DUE TO THE CHANGING EYE STRUCTURE INFLUENCE BY THE LAND AREA. THE LAST RADAR REPORTS INDICATE THAT THE EYE HAS A DIAMETER OF AROUND 20 MILES.

THIS IS A RATHER SMALL BUT DANGEROUS HURRICANE AND ALL INTERESTS SHOULD KEEP IN CLOSE TOUCH WITH FUTURE ADVICES.

SMALL CRAFT AROUND THE FLORIDA PENINSULA NORTHWARD TO CHARLESTON SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO CAPE HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED AT 5 PM EST WITH INTERMEDIATE BULLETINS.

SUGG

NUMBER 31 1 PM EST AUGUST 27 1964

EXTEND HURRICANE WARNINGS NORTHWARD TO ST. AUGUSTINE FLORIDA. HURRICANE WARNINGS ARE NOW DISPLAYED FROM BOCA RATON NORTHWARD TO ST. AUGUSTINE.

GALE WARNINGS REMAIN DISPLAYED ALONG WITH A HURRICANE WATCH NORTH OF ST. AUGUSTINE TO CHARLESTON SOUTH CAROLINA AND ON LAKE OKEECHOBEE.

ALL PRECAUTIONS SHOULD BE CONTINUED OR RUSHED TO COMPLETION IN THE WARNING AREA. WINDS OF 100 MPH OR MORE WILL PROGRESS WITH THE HURRICANE UP THE FLORIDA EAST COAST THIS AFTERNOON AND TONIGHT. ALTHOUGH THE CENTER IS OVER LAND HURRICANE CLEO MAINTAINS HER STRENGTH PACKING HEAVY RAINS AND STORM TIDES AS MUCH AS 4 TO 7 FEET ABOVE NORMAL.

AT 1 PM EST...1800Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 27.3 NORTH LONGITUDE 80.6 WEST JUST SOUTHWEST OF FORT PIERCE FLORIDA. HER COURSE DURING THE PAST FEW HOURS HAS BEEN JUST SLIGHTLY WEST OF DUE NORTH AT 12 MPH. THIS FORECAST TO CONTINUE DURING THE NEXT 12 HOURS. HIGHEST WINDS ARE ABOUT 100 MPH OVER A SMALL AREA NEAR THE CENTER WITH GALES EXTENDING OUTWARD 100 MILES IN ALL DIRECTIONS. NO CHANGE IN SIZE OR INTENSITY IS INDICATED. IT NOW APPEARS THAT THE HURRICANE WILL PASS TO THE WEST OF CAPE KENNEDY AND VERY NEAR DAYTONA BEACH LATE THIS AFTERNOON AND EARLY TONIGHT.

THIS IS A RATHER SMALL BUT A DANGEROUS HURRICANE AND ALL INTERESTS SHOULD KEEP IN CLOSE TOUCH WITH ALL FUTURE ADVICES.

SMALL CRAFT AROUND THE FLORIDA PENINSULA NORTHWARD TO CHARLESTON SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO CAPE HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

NEXT REGULAR ADVISORY FROM THE MIAMI WEATHER BUREAU AT 5 PM...2200Z...WITH INTERMEDIATE BULLETINS.

SUGG

BULLETIN 2 PM EST AUGUST 27 1964

HURRICANE CLEO IS BEING TRACKED BY RADAR AND AT 2 PM EST WAS NEAR LATITUDE 27.4N LONGITUDE 80.6W OR JUST WEST OF FORT PIERCE FLORIDA. CLEO IS MOVING ON A COURSE JUST SLIGHTLY WEST OF DUE NORTH AT 12 MPH. HIGHEST WINDS ARE ESTIMATED 100 MPH.

HURRICANE WARNINGS ARE DISPLAYED FROM BOCA RATON NORTHWARD TO ST. AUGUSTINE AND ALL PRECAUTIONS SHOULD BE RUSHED TO COMPLETION IN THIS AREA.

A HURRICANE WATCH EXTENDS NORTH OF ST. AUGUSTINE FLORIDA AND IT MAY BE NECESSARY TO EXTEND THE HURRICANE WARNING NORTHWARD LATER TODAY.

THE NEXT REGULAR ADVISORY AT 5 PM EST. INTERMEDIATE BULLETINS AS NECESSARY.

SUGG

NUMBER 32 5 PM EST AUGUST 27 1964

EXTEND HURRICANE WARNINGS NORTHWARD TO BRUNSWICK GEORGIA. LOWER WARNINGS STUART SOUTHWARD. HURRICANE WARNINGS ARE DISPLAYED FROM STUART FLORIDA TO BRUNSWICK GEORGIA. GALE WARNINGS REMAIN DISPLAYED ALONG WITH A HURRICANE WATCH FROM BRUNSWICK GEORGIA TO CHARLESTON SOUTH CAROLINA.

ALL PRECAUTIONS SHOULD BE COMPLETED OR RUSHED TO COMPLETION IN THE WARNING AREA. WINDS OF 100 MPH OR MORE WILL ACCOMPANY THE HURRICANE UP THE FLORIDA COAST TONIGHT AND ALONG THE GEORGIA COAST EARLY FRIDAY. TIDES OF 4 TO 7 FEET ABOVE NORMAL WILL OCCUR ALONG WITH THE HIGH WINDS.

AT 5 PM EST...2200Z...HURRICANE CLEO WAS CENTERED A SHORT DISTANCE SOUTH OF MELBOURNE FLORIDA NEAR LATITUDE 27.8N LONGITUDE 80.7W. THE HURRICANE HAS CONTINUED MOVING A LITTLE WEST OF NORTH ABOUT 12 MPH AND INDICATIONS ARE THAT THIS SHOULD CONTINUE FOR THE NEXT 18 HOURS. HIGHEST WINDS ARE ESTIMATED 100 MPH OVER A SMALL AREA NEAR THE CENTER AND GALES EXTEND OUT 100 MILES FROM THE CENTER. EVEN THOUGH THE CENTER IS OVER LAND IT HAS NOT CHANGED INTENSITY TODAY AND PROBABLY WILL CONTINUE AS A SMALL BUT POWERFUL HURRICANE.

SMALL CRAFT AROUND THE FLORIDA PENINSULA AND NORTHWARD TO HATTERAS SHOULD NOT VENTURE FAR FROM PORT AND THOSE IN HURRICANE DISPLAY AREA SHOULD SEEK SAFE HARBOR.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 11 PM WITH INTERMEDIATE BULLETINS.

KRAFT

MIAMI

BULLETIN 6 PM EST AUGUST 27 1964

HURRICANE CLEO WAS CENTERED NEAR LATITUDE 27.9N LONGITUDE 80.7W AT 6 PM EST. THIS POSITION IS A SHORT DISTANCE SOUTH OF MELBOURNE AND ABOUT A HALF HOUR AGO THEIR PRESSURE WAS FALLING RAPIDLY AND WINDS HAD REACHED 60 MPH.

HURRICANE WARNINGS ARE DISPLAYED FROM STUART FLORIDA TO BRUNSWICK GEORGIA AND ALL PRECAUTIONS SHOULD BE COMPLETED AS SOON AS POSSIBLE. THE HURRICANE CONTINUES TO MOVE A LITTLE WEST OF DUE NORTH ABOUT 12 MPH AND MELBOURNE WILL FEEL THE BRUNT OF THE STORM WITHIN THE NEXT TWO HOURS AND CAPE KENNEDY AREA SHORTLY THEREAFTER. HIGHEST WINDS ARE ESTIMATED 100 MPH NEAR THE CENTER AND TIDES OF 4 TO 7 FEET ABOVE NORMAL ARE EXPECTED ALONG THE COAST TO THE EAST OF THE CENTER.

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

KRAFT

BULLETIN 7 PM EST AUGUST 27 1964

THE LATEST REPORTS FROM RECONNAISSANCE AIRCRAFT AND LAND BASED RADAR INDICATE THAT THE CENTRAL PORTION OF HURRICANE CLEO HAS SPREAD OUT SOME AND BECAME DIFFICULT TO LOCATE. AT 7 PM EST THE CENTER WAS ESTIMATED NEAR LATITUDE 27.9N LONGITUDE 80.7W. THIS POSITION IS A SHORT DISTANCE SOUTH OF MELBOURNE.

THE PRESENT INDICATIONS ARE THAT CLEO MAY BE LOSING SOME FORCE BUT IT WILL TAKE A FEW HOURS TO VERIFY THIS TREND AND ALL PRECAUTIONS SHOULD BE CONTINUED.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 11 PM WITH INTERMITTENT BULLETINS.

KRAFT

BULLETIN 8 PM EST AUGUST 27 1964

REPORTS FROM AIRCRAFT AND LAND BASED RADAR INDICATE THAT HURRICANE CLEO WAS BETTER ORGANIZED AT 8 PM EST AND WAS LOCATED NEAR LATITUDE 28.1N LONGITUDE 80.7W OR VERY NEAR MELBOURNE FLORIDA. THE WEATHER STATION AT MELBOURNE WAS EVACUATED A COUPLE HOURS AGO SHORTLY AFTER THEY REPORTED 60 MPH WINDS.

HURRICANE CLEO CONTINUES MOVING NEARLY DUE NORTH 11 MPH AND THE CENTER SHOULD PASS NEAR OR A LITTLE WEST OF CAPE KENNEDY WITHIN THE NEXT FEW HOURS.

HURRICANE WARNINGS ARE DISPLAYED FROM STUART FLORIDA TO BRUNSWICK GEORGIA AND GALE WARNINGS WITH A HURRICANE WATCH ARE IN EFFECT FROM BRUNSWICK TO CHARLESTON.

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

KRAFT

BULLETIN 9 PM EST AUGUST 27 1964

HURRICANE CLEO CONTINUES MOVING NEARLY DUE NORTH ABOUT 11 MPH AND WAS LOCATED AT 9 PM EST NEAR LATITUDE 28.2N LONGITUDE 80.7W OR ABOUT 25 MILES SOUTHWEST OF CAPE KENNEDY.

WINDS HAVE BEEN REPORTED IN THE CAPE KENNEDY AREA OF BETTER THAN 50 MPH.

WHILE THE RADAR EYE HAS BEEN CHANGING SHAPE DURING THE PAST FEW HOURS IT APPEARS QUITE WELL FORMED AT THE PRESENT. HIGHEST WINDS ARE ESTIMATED NEAR 100 MPH NEAR THE EYE AND GALES EXTEND OUT ABOUT 100 MILES. TIDES OF 4 TO 7 FEET ARE EXPECTED ALONG THE COAST EAST OF THE CENTER.

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

KRAFT

MIAMI

NUMBER 33 11PM EST AUGUST 27 1964

REPORTS INDICATE THAT HURRICANE CLEO HAS LOST SOME FORCE DURING THE PAST FEW HOURS. HIGHEST WINDS ARE NOW ESTIMATED 80 MPH NEAR THE CENTER AND GALES EXTEND OUT 100 MILES IN ALL DIRECTIONS. THE CENTER IS EXPECTED TO MOVE OUT OVER THE WATER AGAIN DURING THE NEXT 12 HOURS AND THE HURRICANE WILL LIKELY INTENSIFY AGAIN. HURRICANE WARNINGS REMAIN DISPLAYED FROM STUART FLORIDA TO BRUNSWICK GEORGIA AND GALE WARNINGS WITH A HURRICANE WATCH ARE IN EFFECT FROM BRUNSWICK TO CHARLESTON. CLEO CONTINUES AS A SMALL BUT DANGEROUS HURRICANE AND ALL INTERESTS IN THE AREAS OF DISPLAY SHOULD WATCH FOR FUTURE ADVICES AND TAKE ALL NECESSARY PRECAUTIONS AGAINST HURRICANE FORCE WINDS AND TIDES OF 4 TO 7 FEET.

AT 11 PM EST...0400Z...HURRICANE CLEO WAS LOCATED NEAR LATITUDE 28.4N LONGITUDE 80.7W OR JUST WEST OF CAPE KENNEDY. IT IS MOVING NORTHWARD ABOUT 10 MPH AND IS EXPECTED TO CONTINUE THIS MOVEMENT FOR THE NEXT 12 TO 24 HOURS. THIS WOULD BRING THE CENTER OVER THE WATER AND EAST OF JACKSONVILLE AROUND NOON FRIDAY.

SMALL CRAFT FROM PALM BEACH NORTHWARD TO HATTERAS SHOULD NOT VENTURE FAR FROM SHORE AND THOSE IN THE AREA OF GALE AND HURRICANE DISPLAY SHOULD SEEK SAFE HARBOR.

THE NEXT ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 AM EST WITH INTERMEDIATE BULLETINS.

KRAFT

BULLETIN 1 AM EST AUGUST 28 1964

HURRICANE CLEO WAS CENTERED NEAR LATITUDE 28.5N LONGITUDE 80.7W A SHORT DISTANCE WEST OF CAPE KENNEDY AT 1 AM EST. WINDS IN THE CAPE KENNEDY AREA DURING THE PAST FEW HOURS HAVE BEEN 45 TO 65 MPH. CLEO IS EXPECTED TO CONTINUE A SLOW NORTHWARD MOVEMENT AT ABOUT 10 MPH DURING THE REMAINDER OF THE NIGHT AND EARLY FRIDAY. IT SHOULD MOVE INTO THE ATLANTIC DURING FRIDAY FORENOON AND SOME INTENSIFICATION WILL PROBABLY OCCUR.

INTERESTS FROM THE VICINITY OF THE HURRICANE NORTHWARD TO THE GEORGIA AND SOUTH CAROLINA COASTS SHOULD KEEP IN CLOSE TOUCH WITH FUTURE ADVICES.

THE NEXT ADVISORY WILL BE AT 5 AM EST WITH INTERMEDIATE BULLETINS.

MOORE

BULLETIN 2 AM EST AUGUST 28 1964

HURRICANE CLEO CONTINUES NORTHWARD AT ABOUT 10 MPH. IT IS CENTERED NEAR LATITUDE 28.6N LONGITUDE 80.8W ABOUT 35 MILES EAST OF ORLANDO AND A SHORT DISTANCE NORTHWEST OF CAPE KENNEDY. WINDS CONTINUE TO GUST TO ABOUT 60 MPH IN THE CAPE KENNEDY AREA. THE CENTER IS EXPECTED TO MOVE OFFSHORE THIS MORNING AND SOME INTENSIFICATION WILL OCCUR OVER THE WATER.

INTERESTS FROM THE VICINITY OF THE HURRICANE NORTHWARD TO THE GEORGIA AND SOUTH CAROLINA COASTS SHOULD KEEP IN TOUCH WITH FUTURE ADVICES; HURRICANE WARNINGS REMAIN DISPLAYED FROM STUART FLORIDA TO BRUNSWICK GEORGIA AND GALE WARNINGS WITH A HURRICANE WATCH FROM BRUNSWICK TO CHARLESTON SOUTH CAROLINA.

THE NEXT REGULAR ADVISORY WILL BE ISSUED AT 5 AM WITH INTERMEDIATE BULLETINS.

MOORE

BULLETIN 3 AM EST AUGUST 28 1964

LAND BASED RADAR AND AIRCRAFT RECONNAISSANCE LOCATED THE CENTER OF HURRICANE CLEO AT LATITUDE 28.7N LONGITUDE 80.8W AT 3 AM EST. THE EYE PASSED OVER TITUSVILLE WHERE A LULL IN THE WIND WAS REPORTED SHORTLY BEFORE THREE OCLOCK. CLEO IS EXPECTED TO CONTINUE NORTHWARD AT ABOUT 10 MPH THIS MORNING. THERE HAVE BEEN NO OTHER SIGNIFICANT CHANGES SINCE THE LAST ADVISORY.

THERE WILL BE ANOTHER BULLETIN AT 4 AM AND THE REGULAR ADVISORY AT 5 AM EST.

MOORE

BULLETIN 4 AM EST AUGUST 28 1964

HURRICANE CLEO CONTINUES ON A NORTHERLY COURSE AT ABOUT 8 MPH AND WAS CENTERED NEAR LATITUDE 28.8N LONGITUDE 80.8W AT 4 AM EST. THERE HAVE BEEN NO SIGNIFICANT CHANGES FROM THE PREVIOUS BULLETIN. CLEO IS EXPECTED TO CONTINUE NORTHWARD AROUND 10 MPH THIS MORNING.

THE NEXT ADVISORY WILL BE ISSUED AT 5 AM.

MOORE

MIAMI

NUMBER 34 5 AM EST AUGUST 28 1964

LOWER WARNINGS SOUTH OF CAPE KENNEDY TO STUART. HURRICANE WARNINGS REMAIN DISPLAYED CAPE KENNEDY TO BRUNSWICK GEORGIA AND GALE WARNINGS WITH A HURRICANE WATCH BRUNSWICK TO CHARLESTON SOUTH CAROLINA.

HURRICANE CLEO IS NOW MOVING BACK OVER THE ATLANTIC WITH CENTER NEAR LATITUDE 29.0N LONGITUDE 80.8W AT 5 AM EST...1000Z... THIS POSITION IS ABOUT 20 MILES EAST OF NEW SMYRNA BEACH FLORIDA. CLEO IS MOVING TOWARDS THE NORTH AT ABOUT 10 MPH.

MAXIMUM WINDS AT PRESENT ARE ESTIMATED 75 MPH OVER A SMALL AREA NORTHEAST OF THE CENTER BUT WITH THE HURRICANE NOW DRAWING NEW ENERGY FROM THE WATER SURFACE IT IS EXPECTED TO INTENSIFY TO 90 MPH OR HIGHER TODAY. GALES EXTEND OUTWARD ABOUT 50 MILES TO THE WEST OF THE CENTER AND 120 MILES TO THE EAST AND THE AREA OF GALES WILL EXPAND AS THE HURRICANE REINTENSIFIES.

CLEO IS EXPECTED TO CONTINUE ON A GENERAL NORTHERLY COURSE AT 10 MPH TODAY.

ALL INTERESTS IN THE AREA OF WARNING DISPLAY SHOULD CONTINUE PRECAUTIONS AGAINST GALE TO HURRICANE FORCE WINDS AND ABNORMALLY HIGH TIDES WHICH WILL RANGE FROM 3 FEET TO AS MUCH AS 6 FEET IN A FEW LOCATIONS JUST NORTH OF THE HURRICANE CENTER.

SMALL CRAFT FROM THE MIDDLE EAST COAST OF FLORIDA TO CHARLESTON SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT ADVISORY WILL BE ISSUED AT 11 AM EST WITH INTERMEDIATE BULLETINS.

MOORE

BULLETIN 7 AM EST FRIDAY 28 AUGUST 1964

AFTER MORE THAN 24 HOURS OVER LAND THE EYE OR CALM CENTER OF CLEO HAS ENLARGED AND BECOME DIFFUSE AND ILL DEFINED WITH SOMEWHAT ERRATIC MOVEMENT. AT 7 AM EST THE POSITION WAS ABOUT 15 MILES NORTH OF DAYTONA BEACH IMMEDIATELY INLAND FROM THE COAST NEAR LATITUDE 29.5 NORTH LONGITUDE 81.2 WEST.

RADAR AND OTHER INFORMATION INCLUDING A CALM AT TITUSVILLE AND CONCENTRATION OF SQUALL BANDS OFFSHORE SHOWED A TENDENCY FOR THE CENTER TO REDEVELOP OFFSHORE IN THE EASTERN PORTION OF THE ENLARGED EYE EARLIER THIS MORNING. LATEST DATA SHOW THAT THIS ATTEMPT OF THE CENTER TO AGAIN MOVE OVER THE WARM WATERS OF THE ATLANTIC WAS NOT SUCCESSFUL AND THAT IT IS STILL MOVING NORTHWARD JUST INLAND AT ABOUT 10 MPH HAVING PASSED IMMEDIATELY WEST OF DAYTONA BEACH.

THE PROLONGED PERIOD OVER LAND HAS HAD THE EFFECT OF REDUCING THE MAXIMUM WINDS ALONG COASTAL SECTIONS WITH THE HIGHEST VELOCITIES OFFSHORE IN THE EASTERN SECTORS. HOWEVER A CONTINUED NORTHWARD MOVEMENT WILL BRING THE CENTER ALONG OF JUST OFFSHORE AND SOME INCREASE IN INTENSITY MAY BE EXPECTED AS IT REGAINS A SUPPLY OF WARM MOIST AIR LATER TODAY.

HURRICANE WARNINGS REMAIN DISPLAYED CAPE KENNEDY TO BRUNSWICK GEORGIA AND GALE WARNINGS WITH A HURRICANE WATCH BRUNSWICK TO CHARLESTON SOUTH CAROLINA. THE WARNINGS SOUTH OF THE CENTER WILL BE DISCONTINUED LATER THIS MORNING AS WINDS SUBSIDE. ALL INTERESTS IN THE WARNING DISPLAY AREA SHOULD CONTINUE PRECAUTIONS AS CLEO STILL HAS A POTENTIAL OF DAMAGING WINDS AND TIDES.

THE NEXT ADVISORY WILL BE ISSUED AT 11 AM WITH INTERMEDIATE BULLETINS.

MOORE

BULLETIN 8 AM EST FRIDAY 28 AUGUST 1964

THE LOCATION OF THE CENTER OF CLEO IS BECOMING MORE DIFFICULT TO LOCATE. HOWEVER AT 8 AM EST THE CENTER OF THE WIND CIRCULATION IS ESTIMATED NEAR FLAGLER BEACH.

CURRENT REPORTS INDICATE THAT ANY HURRICANE WINDS THAT ARE OCCURRING ARE ONLY GUSTS ABOVE 75 MPH AT THE PRESENT TIME. HOWEVER THERE WILL BE NO CHANGE IN THE WARNINGS UNTIL THE EXACT STRENGTH OF THE STORM IS DETERMINED BY AIRCRAFT PENETRATION LATER THIS MORNING.

MODERATE TO HEAVY RAINS ARE OCCURRING NORTHWARD OF THE CENTER AS FAR AS BRUNSWICK GEORGIA AND ARE EXPECTED TO PROGRESS FARTHER NORTHWARD ALONG THE COAST DURING THE DAY.

JACKSONVILLE BEACH HAS WIND GUSTS TO 45 WITH SIX FEET SWELLS ALONG THE COAST.

THERE WILL BE ANOTHER BULLETIN AT 930 AM EST WITH THE NEXT REGULAR ADVISORY AT 11 AM EST.

SUGG

BULLETIN 9:30 AM EST FRIDAY 28 AUGUST 1964

THE CENTER OF HURRICANE CLEO IS NEAR ST AUGUSTINE FLORIDA AT 930 AM EST. THIS POSITION IS BASED UPON AIR RECONNAISSANCE WITHIN THE PAST HOUR. THE AIRCRAFT PENETRATED THE CENTER AND WHILE HIGHEST WINDS AT THE SURFACE WERE ONLY 40 MPH THE FLIGHT LEVEL WINDS WERE STILL HURRICANE FORCE. THIS SUGGESTS THAT LAND FRICTIONAL EFFECTS HAVE REDUCED THE SURFACE WINDS BUT THERE STILL EXISTS A HURRICANE POTENTIAL ONCE THE CENTER GAINS A LITTLE MORE ENERGY FROM THE NEARBY OCEAN.

THERE IS NO CHANGE IN THE WARNINGS AT THIS TIME HOWEVER CONDITIONS ARE IMPROVING FROM DAYTONA BEACH SOUTHWARD AND WARNINGS WILL BE LOWERED SOUTH OF THE STORM CENTER ON THE NEXT REGULAR ADVISORY ISSUED BY THE MIAMI WEATHER BUREAU AT 11 AM EST.

SUGG

MIAMI

NUMBER 35 11 AM EST FRIDAY AUGUST 28 1964

LOWER HURRICANE WARNINGS ST. AUGUSTINE SOUTHWARD TO CAPE KENNEDY. HURRICANE WARNINGS REMAIN IN EFFECT NORTH OF ST. AUGUSTINE TO BRUNSWICK GEORGIA AND GALE WARNINGS WITH A HURRICANE WATCH FROM BRUNSWICK TO CHARLESTON SOUTH CAROLINA.

AT 11 AM EST...1600Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 30.0 NORTH LONGITUDE 81.4 WEST OR VERY SHORT DISTANCE NORTHWEST OF ST. AUGUSTINE MOVING ON A NORTHERLY COURSE NEAR 12 MPH. HIGHEST WINDS ARE ESTIMATED NEAR 75 MPH MAINLY IN GUSTS AND AIR RECONNAISSANCE THIS MORNING INDICATE THAT THESE HURRICANE FORCE WINDS ARE OCCURRING MAINLY EAST OF THE EYE CENTER OVER THE OPEN ATLANTIC. GALES EXTEND OUTWARD AROUND 100 MILES TO THE EAST AND 50 MILES TO THE WEST OF THE CENTER. CLEO IS FORECAST TO MOVE ON A NORTHERLY COURSE AROUND 12 MPH DURING THE NEXT 12 TO 24 HOURS SKIRTING THE NORTHEAST FLORIDA AND GEORGIA COASTS THIS AFTERNOON AND EARLY TONIGHT. NO IMPORTANT CHANGE IN SIZE OR INTENSITY IS INDICATED.

ALL INTERESTS IN THE AREA OF WARNING DISPLAY SHOULD CONTINUE PRECAUTIONS AND THOSE IN THE AREA OF THE HURRICANE WATCH SHOULD PAY CLOSE ATTENTION TO FURTHER ADVISORIES AND BULLETINS THIS AFTERNOON.

MODERATE TO HEAVY RAINS WILL OCCUR NORTH OF THE HURRICANE CENTER OVER SOUTHEAST GEORGIA AND OVER SOUTH CAROLINA THIS AFTERNOON AND TONIGHT.

SMALL CRAFT ALONG THE UPPER EAST FLORIDA COAST TO CHARLESTON SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED AT 5 PM EST WITH AN INTERMEDIATE BULLETIN AT 2 PM EST.

SUGG

BULLETIN FOR PRESS RADIO AND TV 2 PM EST FRIDAY AUGUST 28 1964

AT 2 PM EST HURRICANE CLEO WAS CENTERED NEAR THE JACKSONVILLE BEACHES MOVING ON A NORTHERLY COURSE OF NOT MORE THAN 12 MPH. HIGHEST WINDS ARE ESTIMATED NEAR 75 MPH IN GUSTS EAST OF THE CENTER OUT OVER THE OPEN ATLANTIC. THERE IS NO INDICATION OF INTENSIFICATION AND THE HURRICANE WARNING CURRENTLY IN EFFECT FROM ST. AUGUSTINE TO BRUNSWICK GEORGIA WILL LIKELY BE LOWERED AT 5 PM EST IN THE NEXT ADVISORY.

GALE WARNINGS WITH A HURRICANE WATCH REMAIN IN EFFECT FROM BRUNSWICK TO CHARLESTON SOUTH CAROLINA.

MODERATE TO POSSIBLY SEVERE FLOODING MAY OCCUR OVER THE SMALL STREAMS OF EXTREME SOUTHEAST GEORGIA AND OVER SOUTH CAROLINA AS HEAVY RAINS CONTINUE IN ADVANCE OF THE STORM CENTER. ALL INTERESTS SHOULD WATCH FOR POSSIBLE FLOOD WARNINGS FROM LOCAL WEATHER BUREAU OFFICES.

WINDS ARE EXPECTED TO SUBSIDE TONIGHT AND SATURDAY AS CLEO MOVES INLAND.

TIDES OF 3 FEET 4 INCHES ABOVE NORMAL WERE REPORTED ON THE JACKSONVILLE BEACHES AROUND NOON TODAY.

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

SUGG

NUMBER 36 5 PM EST AUGUST 28 1964

LOWER HURRICANE WARNINGS BRUNSWICK GEORGIA SOUTHWARD. GALE WARNINGS WITH A HURRICANE WATCH REMAIN IN EFFECT FROM BRUNSWICK TO CHARLESTON SOUTH CAROLINA.

CLEO HAS WEAKENED TO TROPICAL STORM INTENSITY AND AT 5 PM EST...2200Z...WAS LOCATED NEAR LATITUDE 30.6 NORTH LONGITUDE 81.3 WEST NEAR FERNANDINA BEACH FLORIDA MOVING ON A NORTHERLY COURSE AT 9 MPH. HIGHEST WINDS ARE ESTIMATED NEAR 70 MPH MAINLY IN GUSTS EAST OF THE CENTER OVER THE OPEN ATLANTIC. GALES EXTEND OUTWARD AROUND 100 MILES TO THE EAST AND 50 MILES WEST OF THE CENTER. CLEO IS EXPECTED TO CONTINUE ON ITS NORTHERLY COURSE NEAR 10 MPH TONIGHT AND SATURDAY WITH HIGHEST WINDS GRADUALLY DECREASING DURING EARLY SATURDAY AS THE CENTER MOVES INLAND. LITTLE CHANGE IN SIZE IS FORECAST.

ALL INTERESTS FROM BRUNSWICK TO CHARLESTON SOUTH CAROLINA SHOULD KEEP IN CLOSE TOUCH WITH FUTURE ADVISORIES.

MODERATE TO POSSIBLY SEVERE FLOODING MAY OCCUR OVER THE SMALL STREAMS OF EXTREME SOUTHEAST GEORGIA AND OVER SOUTH CAROLINA AS HEAVY RAINS CONTINUE IN ADVANCE OF THE STORM CENTER. ALL INTERESTS SHOULD WATCH FOR POSSIBLE FLOODING WARNINGS FROM LOCAL WEATHER BUREAU OFFICES.

SMALL CRAFT ALONG THE UPPER EAST FLORIDA COAST TO CHARLESTON SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 11 PM EST WITH AN INTERMEDIATE BULLETIN AT 8 PM.

SUGG

BULLETIN FOR PRESS RADIO AND TV 8 PM EST AUGUST 28 1964

GALE WARNINGS WITH A HURRICANE WATCH ARE IN EFFECT FROM BRUNSWICK GEORGIA TO CHARLESTON SOUTH CAROLINA. SOME GALES AND TIDES OF UP TO FOUR FEET ARE EXPECTED IN THE AREA TONIGHT.

AT 8 PM EST TROPICAL STORM CLEO WAS ON THE COAST 15 OR 20 MILES SOUTH OF BRUNSWICK GEORGIA NEAR LATITUDE 31.0 LONGITUDE 81.4 AND MOVING TOWARD THE NORTH ABOUT 9 MPH.

HIGHEST WINDS ARE ESTIMATED 70 MPH MAINLY IN GUSTS EAST OF THE CENTER OVER THE OPEN ATLANTIC. REPORTS FROM RECONNAISSANCE AIRCRAFT THIS AFTERNOON INDICATED THAT THE STORM HAS CHANGED LITTLE AND AS IT CONTINUES MOVING NORTHWARD OVER LAND LATE TONIGHT AND SATURDAY IT SHOULD LOSE FORCE.

HEAVY RAINS OF 5 TO 10 INCHES ARE LIKELY ALONG THE PATH OF THE CENTER AS IT MOVES FROM THE NORTHERN GEORGIA COAST TO CENTRAL SOUTH CAROLINA AND INTERESTS IN AREA SHOULD WATCH FOR POSSIBLE FLOOD WARNINGS FROM LOCAL WEATHER BUREAU OFFICES.

SMALL CRAFT FROM BRUNSWICK TO CHARLESTON SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

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

KRAFT

MIAMI

NUMBER 37 11 PM EST AUGUST 28 1964

GALE WARNINGS ARE DISPLAYED FROM BRUNSWICK GEORGIA TO CHARLESTON SOUTH CAROLINA. SOME GALES WITH TIDES UP TO 4 FEET AND HEAVY RAINS ARE EXPECTED IN THE AREA DURING THE NEXT 12 HOURS.

AT 11 PM EST...0400Z...TROPICAL STORM CLEO WAS NEAR BRUNSWICK GEORGIA AT LATITUDE 31.4 LONGITUDE 81.3 AND MOVING NORTHWARD ABOUT 10 MPH. HIGHEST WINDS ARE ESTIMATED 65 MPH NEAR BUT TO THE EAST OF CENTER OVER WATER. GALES EXTEND OUT 100 MILES TO THE EAST AND 50 MILES TO THE WEST OF THE CENTER.

THE STORM IS EXPECTED TO GRADUALLY LOSE FORCE AS IT MOVES OVER LAND BUT WILL BE ACCOMPANIED BY HIGH WINDS IN OCCASIONAL SQUALLS. HEAVY RAINS OF 5 TO 10 INCHES ARE LIKELY ALONG THE PATH OF THE CENTER AS IT MOVES FROM THE NORTHERN GEORGIA COAST INTO CENTRAL SOUTH CAROLINA AND INTERESTS IN THE AREA SHOULD WATCH FOR POSSIBLE FLOOD WARNINGS FROM LOCAL WEATHER BUREAU OFFICES.

SMALL CRAFT FROM BRUNSWICK TO CHARLESTON SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

THE NEXT REGULAR ADVISORY WILL BE ISSUED BY THE MIAMI WEATHER BUREAU AT 5 AM EST AND A BULLETIN AT 2 AM.

KRAFT

BULLETIN 2 AM EST AUGUST 29 1964

GALE WARNINGS ARE DISPLAYED FROM BRUNSWICK GEORGIA TO CHARLESTON SOUTH CAROLINA.

PRECAUTIONS SHOULD BE CONTINUED IN THIS AREA FOR SOME GALES WITH TIDES UP TO 4 FEET AND HEAVY RAINS. SMALL CRAFT IN THE WARNING AREA SHOULD REMAIN IN SAFE HARBOR AND THOSE NORTHWARD TO HATTERAS SHOULD NOT VENTURE FAR FROM PORT.

AT 2 AM EST TROPICAL STORM CLEO WAS CENTERED NEAR LATITUDE 31.7 NORTH LONGITUDE 81.3 WEST OR ABOUT 30 MILES SOUTH SOUTHWEST OF SAVANNAH. IT HAS CONTINUED TO LOSE FORCE AND HIGHEST WINDS REPORTED ON THE COAST ARE NOT MORE THAN 35 TO 40 MPH IN SQUALLS. HOWEVER HIGHER WINDS PREVAIL OFFSHORE TO THE EAST OF THE CENTER.

HEAVY RAINS ARE LIKELY FROM THE VICINITY OF THE STORM TO CENTRAL SOUTH CAROLINA AND ALL INTERESTS SHOULD WATCH FOR POSSIBLE FLOOD WARNINGS FROM LOCAL WEATHER BUREAU OFFICES.

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

MOORE

NUMBER 38 5 AM EST AUGUST 29 1964

LOWER GALE WARNINGS SOUTH OF SAVANNAH GEORGIA. GALE WARNINGS REMAIN DISPLAYED SAVANNAH TO CHARLESTON SOUTH CAROLINA AND SMALL CRAFT NORTHWARD TO HATTERAS SHOULD REMAIN IN SAFE HARBOR.

A SMALL TORNADO HAS BEEN REPORTED IN CHARLESTON AND THERE IS A POSSIBILITY OF ANOTHER TORNADO FROM NOW UNTIL 9 AM EST IN THE AREA 50 MILES EITHER SIDE OF A LINE FROM 30 MILES WEST OF SAVANNAH TO 50 MILES NORTHEAST OF FLORENCE SOUTH CAROLINA. LOCALLY SEVERE THUNDERSTORMS WITH GUSTS TO 50 MPH MAY ALSO OCCUR IN THIS AREA.

HEAVY RAINS OF 5 TO 10 INCHES ARE LIKELY FROM THE PRESENT POSITION OF THE STORM CENTER THRU CENTRAL AND EASTERN SOUTH CAROLINA AND HEAVY RAIN WILL ALSO BE SPREADING INTO MUCH OF NORTH CAROLINA LATER TODAY AND TONIGHT. PEOPLE IN THE AREA SHOULD WATCH FOR ADVICES FROM LOCAL WEATHER BUREAU OFFICES ON RAINS AND POSSIBLE FLOODING TIDES OF 2 TO 4 FEET ABOVE NORMAL MAY OCCUR FROM SAVANNAH TO MYRTLE BEACH SOUTH CAROLINA.

AT 5 AM ...1000Z...THE CENTER OF TROPICAL STORM CLEO WAS LOCATED NEAR LATITUDE 31.9N LONGITUDE 81.3W IN THE VICINITY OF SAVANNAH GEORGIA. IT IS MOVING TOWARD THE NORTH AT 7 MPH. EXCEPT FOR WINDS OF A LOCAL NATURE ACCOMPANYING THE POSSIBLE TORNADOES OR THUNDERSTORMS MENTIONED PREVIOUSLY MAXIMUM WINDS TODAY WILL BE ABOUT 40 MPH WITHIN 50 MILES TO THE WEST AND 100 MILES IN THE EASTERN SEMICIRCLE.

CLEO IS EXPECTED TO CONTINUE NORTHWARD AT ABOUT THE SAME RATE TODAY CONTINUING TO WEAKEN AND SPREAD OUT INTO A LARGER AREA OF SQUALLINESS AND HEAVY RAIN.

THE NEXT ADVISORY WILL BE ISSUED FROM THE MIAMI WEATHER BUREAU AT 11 AM EST WITH AN INTERMEDIATE BULLETIN AT 8 AM.

MOORE

MIAMI

BULLETIN FOR PRESS RADIO AND TV 8 AM EST SATURDAY 29 AUGUST 1964

THE CIRCULATION OF CLEO IS GRADUALLY WEAKENING AND THE CENTER WHICH WAS LOCATED NEAR SAVANNAH GEORGIA AT 8 AM EST IS BECOMING POORLY DEFINED.

THE PRINCIPAL WEATHER THREAT REMAINING AT THIS TIME IS HEAVY RAINS NORTH OF THE CENTER AND THE POSSIBILITY OF SEVERE THUNDERSTORMS OR A TORNADO IN THE AREA ALONG AND 50 MILES EITHER SIDE OF A LINE FROM 30 MILES NORTHWEST OF CHARLESTON TO 40 MILES NORTHWEST OF WILMINGTON DURING THE NEXT SEVERAL HOURS. GUSTS OF UP TO 50 MPH MAY OCCUR IN CONNECTION WITH SOME OF THE THUNDERSTORMS.

IN GENERAL WINDS WILL NOT EXCEED ABOUT 40 MPH OVER AN AREA SOME 50 MILES TO THE WEST AND 100 MILES TO THE EAST OF THE CENTER. TIDES MAY RUN 2 TO 3 FEET ABOVE NORMAL LEVELS BETWEEN SAVANNAH AND MYRTLE BEACH SOUTH CAROLINA AS THE STORM DRIFTS SLOWLY NORTHWARD TODAY CONTINUING TO WEAKEN.

GALE WARNINGS NOW DISPLAYED SAVANNAH TO CHARLESTON WILL PROBABLY BE LOWERED LATER THIS MORNING BUT SMALL CRAFT FROM THE STORM CENTER TO HATTERAS SHOULD REMAIN IN PORT.

ALL INTERESTS IN THE CAROLINAS SHOULD WATCH FOR ANY STATEMENTS ON HEAVY RAINS OR LOCAL FLOODING WHICH MAY BE ISSUED BY LOCAL WEATHER BUREAU OFFICES.

THE NEXT ADVISORY WILL BE ISSUED FROM MIAMI AT 11 AM EST.

MOORE

NUMBER 39 11 M EST SATURDAY 29 AUGUST 1964

LOWER GALE WARNINGS SAVANNAH GEORGIA TO CHARLESTON SOUTH CAROLINA. SMALL CRAFT ALONG THE GEORGIA COAST AND NORTHWARD TO CAPE HATTERAS SHOULD REMAIN IN PORT UNTIL SEAS SUBSIDE.

HEAVY RAINS WILL CONTINUE NORTH OF THE CENTER IN THE CAROLINAS AND THERE IS THE POSSIBILITY OF SEVERE THUNDERSTORMS OR A TORNADO IN THE AREA ALONG AND 50 MILES EITHER SIDE OF A LINE FROM 30 MILES NORTHWEST OF CHARLESTON TO 40 MILES NORTHWEST OF WILMINGTON NORTH CAROLINA DURING THE REMAINDER OF THE MORNING AND THIS AFTERNOON. ALL INTERESTS IN THE CAROLINAS SHOULD WATCH FOR STATEMENTS ON HEAVY RAINS OR FLOOD WARNINGS FROM LOCAL WEATHER BUREAU OFFICES. RAINS OF 5 TO 10 INCHES ARE POSSIBLE.

THE CENTER OF CIRCULATION OF TROPICAL STORM CLEO IS NOT WELL DEFINED BUT IS ESTIMATED BY RECONNAISSANCE AND LAND STATIONS AT 11 AM EST...1600Z...TO BE NEAR LATITUDE 32.4 NORTH LONGITUDE 81.4 WEST OR A SHORT DISTANCE NORTHWEST OF SAVANNAH GEORGIA. CLEO IS MOVING NORTHWARD ABOUT 6 MILES PER HOUR AND THIS SLOW NORTHWARD DRIFT WILL CONTINUE DURING THE NEXT 12 TO 24 HOURS. OTHER THAN LOCAL STORMS MENTIONED ABOVE HIGHEST WINDS ARE NEAR 40 MPH MAINLY IN SQUALLS OVER THE OCEAN. WINDS ARE EXPECTED TO DECREASE SLOWLY AS THE CENTER PUSHES FARTHER INLAND THIS AFTERNOON AND TONIGHT.

CLEO IS LOSING HER TROPICAL CHARACTERISTICS AND NO FURTHER NUMBERED ADVISORIES WILL BE ISSUED. BULLETINS WILL BE CONTINUED WITH THE NEXT AROUND 4 PM EST OR AS CONDITIONS WARRANT.

SUGG

MIAMI

BULLETIN 4 PM EST SATURDAY 29 AUGUST 1964

THE WIND CIRCULATION OF CLEO WAS CENTERED JUST A SHORT DISTANCE NORTHWEST OF SAVANNAH AT 4 PM THIS AFTERNOON. THE CENTRAL PRESSURE IS RISING INDICATING THAT FURTHER WEAKENING WILL TAKE PLACE AS THE SYSTEM DRIFTS NORTHWARD AT NOT MORE THAN 5 MPH.

HIGHEST WINDS ARE 20 TO 25 MPH OVER THE CAROLINAS AND JUST OFF SHORE HOWEVER LOCALLY HIGHER GUSTS MAY OCCUR IN THE HEAVIER RAIN SQUALLS.

HEAVY RAINS HAVE FALLEN AND AS MUCH AS AN ADDITIONAL 3 TO 6 INCHES MAY OCCUR AND SPREAD INTO SOUTH CENTRAL VIRGINIA SUNDAY. IN THE CAROLINAS TONIGHT AND SUNDAY ALL INTERESTS SHOULD WATCH FOR STATEMENTS FROM LOCAL WEATHER BUREAU STATIONS ON THE HEAVY RAINS AND POSSIBLE FLOODING.

SMALL CRAFT ALONG THE GEORGIA COAST AND NORTHWARD TO CAPE HATTERAS SHOULD REMAIN IN PORT UNTIL SEAS SUBSIDE.

THERE WILL BE ANOTHER BULLETIN AROUND 9 PM.

SUGG

BULLETIN 9 PM EST SATURDAY 29 AUGUST 1964

THE REMNANTS OF CLEO WAS CENTERED ABOUT 45 MILES SOUTHEAST OF AUGUSTA GEORGIA AT 9 PM THIS SATURDAY EVENING DRIFTING NORTHWARD ABOUT 5 MPH. WHILE THIS CIRCULATION COVERS GEORGIA AND THE CAROLINAS NO STRONG WINDS ARE NOW BEING REPORTED EXCEPT IN A FEW SCATTERED WINDSTORMS SOME DISTANCE FROM THE CENTER.

HEAVY RAINS HOWEVER CONTINUE TO FALL IN THE CENTRAL PORTION OF THE LOW PRESSURE SYSTEM AND IN THE HIGHER ELEVATIONS OF NORTHWESTERN SOUTH CAROLINA SOUTHWESTERN NORTH CAROLINA AND NORTHEASTERN GEORGIA. AUGUSTA REPORTS 4.67 INCHES DURING PAST 24 HOURS.

AN ADDITIONAL 2 TO 5 INCHES IS LIKELY OVER PORTIONS OF NORTHWESTERN SOUTH CAROLINA AND WESTERN NORTH CAROLINA DURING THE NEXT 24 HOURS WITH A FEW HIGHER AMOUNTS LIKELY IN THE MOUNTAINS. INTERESTS IN THESE AREAS SHOULD WATCH FOR STATEMENTS FROM LOCAL WEATHER BUREAU OFFICES ON THE HEAVY RAINS AND POSSIBLE FLOODING.

SMALL CRAFT ON THE NORTH CAROLINA COAST NORTHWARD TO CAPE HATTERAS SHOULD REMAIN IN PORT UNTIL SEAS SUBSIDE.

THE NEXT BULLETIN WILL BE ISSUED DURING SUNDAY FORENOON.

DUNN

BULLETIN 10 AM EST SUNDAY 30 AUGUST 1964

THE REMNANTS OF CLEO WERE ABOUT 40 MILES NORTH OF AUGUSTA GEORGIA THIS MORNING AND DRIFTING NORTHWARD. RAINS ARE ABOUT THE ONLY WEATHER ASSOCIATED WITH THE REMAINS OF CLEO THAT ARE OF ANY CONSEQUENCE.

DURING THE PAST 24 HOURS RAINS OF FROM 2 TO 6 INCHES HAVE OCCURRED OVER THE NORTHWESTERN HALF OF SOUTH CAROLINA. THESE RAINS WILL SPREAD NORTHWARD ALONG THE EASTERN SLOPES OF THE SOUTHERN APPALACHIANS TODAY AND TONIGHT. INTERESTS THRU THE AREA FROM SOUTH CAROLINA NORTHWARD TO SOUTHWESTERN VIRGINIA SHOULD WATCH FOR POSSIBLE FLOOD WARNINGS FROM THEIR LOCAL WEATHER BUREAU OFFICE.

THERE WILL BE ANOTHER BULLETIN AROUND 9 PM.

KRAFT

MIAMI

BULLETIN 9 PM EST SUNDAY AUGUST 30 1964

A BROAD LOW PRESSURE AREA WHICH IS THE REMAINS OF CLEO WAS OVER THE WESTERN CAROLINAS THIS EVENING CENTERED NEAR CHARLOTTE. THERE ARE NO STRONG WINDS LEFT WITH THIS SYSTEM BUT IT IS STILL ACCOMPANIED BY EXTENSIVE RAINS SOME LOCALLY HEAVY. DURING THE PAST 24 HOURS RAINS OF FROM TWO TO SIX INCHES HAVE FALLEN OVER MUCH OF THE INTERIOR PORTION OF SOUTH CAROLINA AND SOUTHWESTERN NORTH CAROLINA.

THIS LOW PRESSURE AREA IS EXPECTED TO SPREAD NORTHEASTWARD THRU CENTRAL NORTH CAROLINA AND VIRGINIA TONIGHT AND MONDAY WITH THE CENTER REACHING THE UPPER CHESAPEAKE BAY AREA LATE MONDAY OR MONDAY NIGHT. RAINS SPREADING NORTHEASTWARD WITH THE LOW WILL BE RATHER EXTENSIVE AND LOCALLY HEAVY WITH SOME AMOUNTS OF TWO OR MORE INCHES DURING THE NEXT 24 HOURS.

ANOTHER BULLETIN WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU OFFICE DURING THE FORENOON MONDAY.

HILL

WASHINGTON

BULLETIN 10 AM EST MONDAY AUGUST 31 1964

THE REMAINS OF CLEO EXIST AS A LOW PRESSURE AREA CENTERED BETWEEN DANVILLE VIRGINIA AND RALEIGH NORTH CAROLINA. DURING THE LAST 24 HOURS THE LOW PRESSURE AREA HAS BEEN MOVING SLOWLY TOWARD THE NORTHEAST AND IS FORECAST TO MOVE SLOWLY IN A DIRECTION BETWEEN EAST AND NORTHEAST DURING THE NEXT 24 HOURS. THE LOW PRESSURE AREA IS FORECAST TO REACH A POSITION JUST EAST OF THE VIRGINIA CAPES OVER THE ATLANTIC TUESDAY MORNING.

RAIN OCCASIONALLY HEAVY IS OCCURRING OVER SOUTH CENTRAL VIRGINIA AND CENTRAL NORTH CAROLINA. DURING THE LAST 24 HOURS THE FOLLOWING RAINFALL AMOUNTS WERE REPORTED...GREENSBORO NORTH CAROLINA 2.81 INCHES RICHMOND VIRGINIA 2.18 INCHES AND DANVILLE VIRGINIA 2.01 INCHES. DURING THE NEXT 24 HOURS RAINFALL AMOUNTS OF AROUND 2 INCHES ARE EXPECTED OVER PORTIONS OF EASTERN VIRGINIA EASTERN NORTH CAROLINA AND THE EASTERN SHORE OF MARYLAND.

ANOTHER BULLETIN WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU OFFICE ABOUT 8 PM TODAY.

HOOVER

BULLETIN 8 PM EST MONDAY AUGUST 31 1964

THE REMAINS OF CLEO IN THE FORM OF A LOW PRESSURE AREA WAS CENTERED OVER NORTHEASTERN NORTH CAROLINA AT 8 PM EST TODAY BETWEEN ROCKY MOUNT AND ELIZABETH CITY MOVING EASTWARD AT ABOUT 15 MPH. IT IS FORECAST TO MOVE TOWARD THE EAST NORTHEAST AT 15 MPH AND PASS OFF THE UPPER COAST OF NORTH CAROLINA TONIGHT AND THEN TURN MORE TOWARD THE NORTHEAST WITH SOME ACCELERATION IN FORWARD SPEED AS IT MOVES INTO THE OPEN WATERS OF THE ATLANTIC TUESDAY.

RAINS ASSOCIATED WITH THIS LOW HAS ENDED THROUGH THE INTERIOR SECTIONS OF NORTH CAROLINA BUT MODERATE TO HEAVY RAINS CONTINUE THIS EVENING IN THE EXTREME EASTERN PORTION OF NORTH CAROLINA INTO SOUTHEASTERN VIRGINIA AND MORE THAN 2 INCHES OF RAIN HAVE FALLEN THROUGH PART OF THAT AREA IN THE PAST 12 HOURS. DURING THE DAYLIGHT HOURS TODAY 2.18 INCHES FELL IN THE NORFOLK VIRGINIA AREA AND BLACKSTONE VIRGINIA HAD 2.37 INCHES. HOWEVER DURING THE PAST FEW DAYS THE REMAINS OF CLEO HAS PRODUCED AS MUCH AS SEVEN AND A HALF INCHES OF RAIN THROUGH PORTIONS OF WESTERN NORTH CAROLINA AND SOUTHERN VIRGINIA.

THE RAINS ARE EXPECTED TO TAPER OFF LATER TONIGHT IN THE COASTAL REGION OF NORTH CAROLINA AND SOUTHEASTERN VIRGINIA AS THE LOW PASSES OUT TO SEA.

ANOTHER BULLETIN WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU OFFICE BY 10 AM EST TUESDAY.

HUNTER

BULLETIN 5:30 AM EST TUESDAY SEPTEMBER 1 1964

THE LOW PRESSURE AREA THAT FORMED FROM THE REMAINS OF CLEO HAS NOW REACHED THE COAST NEAR THE VIRGINIA NORTH CAROLINA BORDER AND IS MOVING EASTWARD ABOUT 10 MPH. THIS LOW PRESSURE AREA IS FORECAST TO INCREASE IN INTENSITY AS IT MOVES EAST OR POSSIBLY EAST SOUTHEAST OVER THE WARM WATER IN THE GULF STREAM TODAY.

RAINS ASSOCIATED WITH THE LOW DURING THE LAST 24 HOURS RANGED UP TO AROUND 10 INCHES IN THE NORFOLK AREA AND 4 TO 6 INCHES IN EXTREME NORTHEAST NORTH CAROLINA. AMOUNTS OF AROUND 2 INCHES WERE FAIRLY GENERAL OVER MOST OF SOUTHEASTERN VIRGINIA AND MOST OF EASTERN NORTH CAROLINA. SINCE THE RAIN AREA IS MOVING EASTWARD WITH THE LOW LITTLE ADDITIONAL RAIN IS EXPECTED OVER LAND AREAS TODAY.

GALE WARNINGS ARE DISPLAYED FROM HATTERAS NORTH CAROLINA NORTHWARD THROUGH THE VIRGINIA CAPES AND SMALL CRAFT WARNINGS FROM THE VIRGINIA CAPES NORTH TO OCEAN CITY MARYLAND.

THE NEXT BULLETIN WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU AT ABOUT 11 AM EST TODAY.

HOOVER

BULLETIN 11 AM EST TUESDAY SEPTEMBER 1 1964

THE LOW PRESSURE SYSTEM THAT REFORMED FROM THE REMAINS OF CLEO HAS INTENSIFIED SOME AND WILL BE REFERRED TO AS STORM CLEO. AT 11 AM EST STORM CLEO WAS CENTERED OVER THE ATLANTIC ABOUT 125 MILES SOUTHEAST OF NORFOLK VIRGINIA MOVING EAST SOUTHEAST ABOUT 12 MPH. STORM CLEO IS EXPECTED TO CONTINUE TO INTENSIFY AS IT MOVES OVER THE WARM WATER IN THE GULF STREAM. THE EAST SOUTHEAST MOVEMENT SHOULD CONTINUE AT ABOUT 12 MPH THIS AFTERNOON POSSIBLY SLOWING ITS FORWARD MOTION SLIGHTLY TONIGHT.

GALE WARNINGS REMAIN DISPLAYED FROM CAPE HATTERAS NORTH CAROLINA NORTHWARD THROUGH THE VIRGINIA CAPES AND SMALL CRAFT WARNINGS FROM THE VIRGINIA CAPES NORTH TO OCEAN CITY MARYLAND. THE HIGHEST WINDS AROUND STORM CLEO ARE WITHIN THE 30 TO 50 MPH RANGE AND MAY INCREASE SLIGHTLY THIS AFTERNOON AND TONIGHT.

RAIN ASSOCIATED WITH STORM CLEO HAS ABOUT ENDED OVER SOUTHEASTERN VIRGINIA AND EASTERN NORTH CAROLINA. THE WEATHER BUREAU AT NORFOLK MEASURED 11.37 INCHES UP TO 9 AM THIS MORNING. THE HEAVIEST RAIN AT NORFOLK OCCURRED DURING THE NIGHT AND CAUSED CONSIDERABLE FLOODING OF LOW PLACES EARLY THIS MORNING.

WASHINGTON

THE NEXT BULLETIN ON STORM CLEO WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU AT ABOUT 5 PM EST TODAY.

HOOVER

BULLETIN 4 PM EST TUESDAY SEPTEMBER 1 1964

AT 4 PM EST STORM CLEO WAS CENTERED OVER THE ATLANTIC ABOUT 100 MILES EAST OF CAPE HATTERAS NORTH CAROLINA MOVING EASTWARD 15 MPH. THE STORM HAS BEEN UNDER SURVEILLANCE OF THE WEATHER BUREAU RADAR AT HATTERAS TODAY AND RECONNAISSANCE AIRCRAFT GAVE A FIX ON THE CENTER A SHORT TIME AGO.

RAIN ASSOCIATED WITH THE STORM HAS ENDED ALONG THE COAST AND WINDS HAVE GRADUALLY DIMINISHED. LATE REPORTS ALONG THE NORTH CAROLINA COAST SHOW WINDS NOW 15 TO 20 MPH WITH GUSTS UP TO 30 MPH. HIGHEST WINDS OVER THE ATLANTIC AROUND THE STORM ARE IN THE 30 TO 50 MPH RANGE AND THE AREA COVERED BY THESE GALE WINDS MAY GRADUALLY INCREASE.

GALE WARNINGS REMAIN DISPLAYED FROM CAPE HATTERAS NORTHWARD THROUGH THE VIRGINIA CAPES AND SMALL CRAFT WARNINGS THENCE NORTHWARD TO OCEAN CITY MARYLAND. THESE WARNINGS WILL BE LOWERED TONIGHT AS THE WINDS AND SEAS SUBSIDE.

THIS WILL BE THE FINAL BULLETIN ON STORM CLEO. FURTHER INFORMATION ON THE STORM WILL BE CARRIED IN THE NSS MARINE ADVISORIES FOR THE BENEFIT OF SHIPPING ON THE HIGH SEAS.

NORQUEST

NUMBER 40 11 AM EST SEPTEMBER 2 1964

REPORTS FROM RECONNAISSANCE AIRCRAFT INDICATE THAT CLEO HAS INTENSIFIED WHILE MOVING OVER WARMER OCEAN WATER AND IS AGAIN A HURRICANE.

AT 11 AM EST...1600Z...HURRICANE CLEO WAS CENTERED NEAR LATITUDE 35.5 NORTH LONGITUDE 70.1 WEST OR ABOUT 315 MILES EAST OF CAPE HATTERAS. IT IS MOVING AWAY FROM THE U. S. MAINLAND ON AN EASTERLY COURSE ABOUT 11 MPH AND IS EXPECTED TO CONTINUE ON ABOUT THE SAME COURSE WITH LITTLE CHANGE IN SPEED OR INTENSITY DURING THE NEXT 12 TO 24 HOURS.

HIGHEST WINDS ARE NOW ABOUT 90 MILES PER HOUR OVER A SMALL AREA NEAR THE CENTER AND GALE FORCE WINDS EXTEND OUTWARD ABOUT 120 MILES IN ALL DIRECTIONS. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED DURING THE NEXT 24 HOURS.

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

SCHMIDT

NUMBER 41 5 PM EST SEPTEMBER 2 1964

AT 5 PM EST...2200Z...HURRICANE CLEO WAS LOCATED BY RECONNAISSANCE AIRCRAFT NEAR LATITUDE 35.9 NORTH LONGITUDE 68.7 WEST OR ABOUT 340 MILES NORTHWEST OF BERMUDA. IT IS MOVING TOWARDS THE EAST ABOUT 12 MPH AND IS EXPECTED TO MOVE BETWEEN EAST AND EAST NORTH-EAST AT ABOUT THE SAME SPEED DURING THE NEXT 12 TO 24 HOURS.

HIGHEST WINDS ARE STILL ABOUT 90 MPH OVER A SMALL AREA NEAR THE CENTER AND GALE FORCE WINDS EXTEND OUTWARD ABOUT 200 MILES TO THE NORTH AND 150 MILES TO THE SOUTH. LITTLE CHANGE IN SIZE OR INTENSITY IS EXPECTED DURING THE NEXT 24 HOURS.

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

SCHMIDT

NUMBER 42 11 PM EST 11 PM EST SEPTEMBER 2 1964

AT 11 PM EST...0400Z...HURRICANE CLEO WAS LOCATED BY RECONNAISSANCE AIRCRAFT NEAR LATITUDE 36.0 NORTH LONGITUDE 66.5 WEST OR ABOUT 275 MILES NORTH NORTHWEST OF BERMUDA. IT IS MOVING TOWARD THE EAST NORTHEAST AT ABOUT 16 MPH AND IS EXPECTED TO CONTINUE MOVING TOWARD THE EAST NORTHEAST BUT WITH THE FORWARD SPEED GRADUALLY INCREASING DURING THE NEXT 24 HOURS.

HIGHEST WINDS ARE STILL ABOUT 90 MPH OVER A SMALL AREA NEAR THE CENTER AND GALE FORCE WINDS EXTEND ABOUT 200 MILES OUTWARD FROM THE CENTER. THE SIZE AND INTENSITY SHOULD REMAIN ABOUT THE SAME DURING THE NEXT 24 HOURS.

THE NEXT ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU AT 5 AM EST.

HOOVER

NUMBER 43 5 AM EST SEPTEMBER 3 1964

AT 5 AM EST...1000Z...HURRICANE CLEO WAS POSITIONED BY RECONNAISSANCE AIRCRAFT NEAR LATITUDE 36.6 NORTH LONGITUDE 64.7 WEST OR ABOUT 300 MILES NORTH OF BERMUDA. IT WAS MOVING TOWARD THE EAST NORTHEAST AT ABOUT 18 MPH AND IS FORECAST TO CONTINUE MOVING TOWARD THE EAST NORTHEAST WITH A LIGHT INCREASE IN THE FORWARD SPEED DURING THE NEXT 24 HOURS.

HIGHEST WINDS REPORTED BY THE HURRICANE HUNTER PLANE WERE ABOUT 90 MPH JUST OUTSIDE THE EYE OF ABOUT 110 MILES IN DIAMETER. GALE FORCE WINDS EXTEND ABOUT 200 MILES IN ALL QUADRANTS. THE SIZE AND INTENSITY OF CLEO SHOULD REMAIN ABOUT THE SAME FOR THE NEXT 24 HOURS.

THE NEXT ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU AT 11 AM EST.

E. HOOVER

WASHINGTON

NUMBER 44 11 AM EST SEPTEMBER 3 1964

AT 11 AM EST...1600Z...HURRICANE CLEO POSITIONED BY RECONNAISSANCE AIRCRAFT NEAR LATITUDE 37.4 NORTH LONGITUDE 62.2 WEST OR ABOUT 380 MILES NORTH NORTHEAST OF BERMUDA. IT IS MOVING TOWARD THE EAST NORTHEAST AT ABOUT 20 MPH AND SHOULD CONTINUE ON THIS COURSE WITH A SLIGHT INCREASE IN FORWARD SPEED DURING THE NEXT 24 HOURS.

HIGHEST WINDS ARE AROUND 90 TO 100 MPH OVER A SMALL AREA JUST OUTSIDE THE EYE. GALE WINDS EXTEND OUTWARD ABOUT 200 MILES IN ALL QUADRANTS. THE SIZE AND INTENSITY SHOULD REMAIN ABOUT THE SAME FOR ANOTHER 24 HOURS.

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

NORQUEST

NUMBER 45 5 PM EST SEPTEMBER 3 1964

AT 5 PM EST...2200Z...HURRICANE CLEO POSITIONED BY RECONNAISSANCE AIRCRAFT NEAR LATITUDE 38.5 NORTH LONGITUDE 59.0 WEST OR ABOUT 540 MILES NORTHEAST OF BERMUDA. IT IS MOVING TOWARD THE EAST NORTHEAST AT AROUND 25 MPH AND SHOULD CONTINUE ON THIS COURSE WITH FORWARD SPEED OF ABOUT 28 MPH DURING THE NEXT 24 HOURS.

HIGHEST WINDS ARE AROUND 90 TO 100 MPH OVER A SMALL AREA JUST OUTSIDE THE EYE. GALE FORCE WINDS EXTEND OUTWARD FOR ABOUT 200 MILES IN ALL QUADRANTS. THE SIZE MAY GRADUALLY INCREASE WITH AREA OF GALES EXPANDING BUT THE INTENSITY SHOULD BEGIN TO DECREASE DURING THE NEXT 24 HOURS.

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

NORQUEST

NUMBER 46 11 PM EST SEPTEMBER 3 1964

AT 11 PM EST...0400Z...HURRICANE CLEO WAS LOCATED BY RECONNAISSANCE AIRCRAFT NEAR LATITUDE 39.0 NORTH LONGITUDE 54.5 WEST OR ABOUT 500 MILES SOUTH OF CAPE RACE NEWFOUNDLAND. IT IS MOVING TOWARD THE EAST NORTHEAST AT ABOUT 35 MPH AND IS FORECAST TO TURN MORE TOWARD THE NORTHEAST AT ABOUT THE SAME OR SLIGHTLY FASTER FORWARD SPEED DURING THE NEXT 24 HOURS.

HIGHEST WINDS ARE STILL AROUND 90 MPH OVER A SMALL AREA JUST OUTSIDE THE EYE. GALE FORCE WINDS EXTEND OUTWARD FOR ABOUT 200 MILES IN ALL QUADRANTS. THE HIGHEST WINDS ARE EXPECTED TO DIMINISH SOME DURING THE NEXT 24 HOURS BUT THE AREA OF GALE WINDS IS FORECAST TO EXPAND OUTWARD TO ABOUT 600 MILES IN THE SOUTHEAST SEMICIRCLE.

THE NEXT ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU AT 5 AM EST.

E. HOOVER

NUMBER 47 5 AM EST SEPTEMBER 4 1964

AT 5 AM EST...1000Z...HURRICANE CLEO POSITION WAS ESTIMATED TO BE NEAR LATITUDE 41.0 NORTH LONGITUDE 51.0 WEST OR ABOUT 400 MILES SOUTH SOUTHEAST OF CAPE RACE NEWFOUNDLAND. IT IS MOVING TOWARD THE NORTHEAST AT ABOUT 37 MPH AND IS FORECAST TO CONTINUE ABOUT THE SAME MOVEMENT FOR THE NEXT 24 HOURS.

HIGHEST WINDS ARE STILL AROUND 90 MPH OVER A SMALL AREA JUST OUTSIDE THE EYE. GALE FORCE WINDS EXTEND OUTWARD FOR ABOUT 200 MILES IN ALL QUADRANTS. THE HIGHEST WINDS ARE EXPECTED TO DIMINISH AS THE HURRICANE MOVES OVER COLDER WATER AND LOSES ITS TROPICAL CHARACTERISTICS DURING THE NEXT 24 HOURS. DURING THE SAME TIME THE AREA OF GALE WINDS IS EXPECTED TO EXPAND OUTWARD TO ABOUT 600 MILES IN THE SOUTHEAST SEMICIRCLE.

THE NEXT ADVISORY ON HURRICANE CLEO WILL BE ISSUED BY THE WASHINGTON WEATHER BUREAU AT ABOUT 11 AM EST.

E. HOOVER

NUMBER 48 11 AM EST SEPTEMBER 4 1964

AT 11 AM EST...1600Z...HURRICANE CLEO WAS ESTIMATED TO BE CENTERED NEAR LATITUDE 46.0 NORTH LONGITUDE 47.0 WEST ON THE BASIS OF VESSEL REPORTS. THIS IS ABOUT 310 MILES EAST OF CAPE RACE NEWFOUNDLAND. IT IS MOVING TOWARDS THE NORTHEAST ABOUT 45 MILES AN HOUR AND IS FORECAST TO CONTINUE ABOUT THE SAME MOVEMENT DURING THE NEXT 12 TO 24 HOURS.

HIGHEST WINDS ARE STILL ABOUT 90 MPH AN HOUR OVER A SMALL AREA AROUND THE CENTER. GALE FORCE WINDS EXTEND OUTWARD ABOUT 250 MILES IN ALL QUADRANTS. THE HIGHEST WINDS ARE EXPECTED TO GRADUALLY DIMINISH AND THE STORM WILL RAPIDLY LOSE ITS TROPICAL CHARACTERISTICS AS IT MOVES OVER COLDER WATER THIS AFTERNOON. THE AREA OF GALE WINDS IS EXPECTED TO EXPAND OUTWARD TO ABOUT 500 MILES IN THE SOUTHEAST SEMICIRCLE.

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

SCHMIDT

NUMBER 49 5 PM EST SEPTEMBER 4 1964

AT 5 PM EST...2200Z...CLEO WAS ESTIMATED TO BE CENTERED NEAR LATITUDE 49.0 NORTH LONGITUDE 47.0 WEST ON THE BASIS OF VESSEL REPORTS. THIS IS ABOUT 275 MILES EAST NORTHEAST OF ST. JOHN'S NEWFOUNDLAND. THE POSITION OF CLEO WAS INDICATED AS TOO FAR EAST IN OUR PREVIOUS ADVISORY. THE STORM IS NOW MOVING TOWARDS THE NORTH NORTHEAST ABOUT 40 MPH AND IS EXPECTED TO CONTINUE ABOUT THE SAME MOVEMENT DURING THE NEXT 12 HOURS AND THEN DECREASE SOMEWHAT IN FORWARD SPEED.

ALTHOUGH CLEO IS MOVING OVER COOLER WATER AND LOSING TROPICAL CHARACTERISTICS HIGHEST WINDS ARE STILL ABOUT 90 MPH OVER A SMALL AREA AROUND THE CENTER AND GALES NOW EXTEND OUTWARD ABOUT 450 MILES TO THE SOUTH AND 250 MILES TO THE NORTHEAST. ALTHOUGH CLEO WILL GRADUALLY WEAKEN AFTER ANOTHER 6 HOURS IT WILL REMAIN A DANGEROUS STORM FOR AT LEAST ANOTHER 24 HOURS AND ALL SHIPS IN THE

PATH SHOULD CONTINUE TO EXERCISE CAUTION.

THIS WILL BE THE LAST PUBLIC ADVISORY ON CLEO. FUTURE ADVICES ON THIS STORM WILL BE CARRIED EVERY SIX HOURS IN THE MARINE BULLETINS ISSUED FROM WASHINGTON FOR BROADCAST OVER NSS.

LOCAL STATEMENTS

ISSUED BY WBAS SAVANNAH GA. AT 2000E AUGUST 27 1964

AT 1 PM EST HURRICANE CLEO WAS CENTERED NEAR LATITUDE 28.1N LONGITUDE 80.7W OR VERY NEAR MELBOURNE FLORIDA. SHE IS MOVING NORTHWESTWARD AT ABOUT 11 MPH AND SHOULD MOVE UP THE NORTHEAST FLORIDA COAST LATER TONIGHT. SHE IS STILL A WELL DEFINED EYE AND IS STILL A VERY DANGEROUS HURRICANE. CLEO IS EXPECTED TO MOVE UP THE GEORGIA COAST DURING FRIDAY AND SHOULD BE NEAR ST. CATHERINE SOUND BY 5 PM EST FRIDAY. WINDS WILL BE INCREASING ALONG THE LOWER GEORGIA COAST LATE TONIGHT AND SHOULD REACH HURRICANE FORCE IN THAT AREA FRIDAY MORNING AND IN THE SAVANNAH AREA BY NOON FRIDAY. IF THIS INDICATED MOVEMENT CONTINUES SHE SHOULD PASS NEAR SAVANNAH LATE FRIDAY AFTERNOON OR EARLY EVENING.

TIDES WITH CLEO ARE EXPECTED TO BE 4 TO 7 FEET ABOVE NORMAL AND SHOULD REACH THEIR PEAK IN THE BRUNSWICK AREA SLIGHTLY BEFORE NOON AND IN THE SAVANNAH BEAUFORT AREA DURING MID TO LATE AFTERNOON FRIDAY. WE ARE FORTUNATE IN THE SAVANNAH AREA THAT THE CENTER WILL PASS NEAR SCHEDULED TIME FOR LOW TIDE. BUT REMEMBER THAT IN 1893 WE HAD SIMILAR CONDITIONS AND STILL GOT 15.4 FEET AT PULASKI AND HIGHER IN THE SOUNDS AND RIVERS.

PREPARATIONS SUCH AS PROTECTION OF PLATE GLASS WINDOWS SHOULD BEGIN TONIGHT BECAUSE RAIN AND WINDS WILL SERIOUSLY HAMPER SUCH WORK FRIDAY. SMALL CRAFT SHOULD REMAIN IN PORT AND SAFE ANCHORAGE SHOULD BE ACCOMPLISHED TONIGHT. WHILE WE BELIEVE THAT THERE WILL BE AMPLE TIME TO EVACUATE LOW ISLANDS AND BEACHES FRIDAY MORNING YOU WOULD BE SAFER TO DO THIS TONIGHT. RAIN SQUALLS SHOULD DEVELOP IN THE BRUNSWICK AREA BY 9 PM EST TONIGHT AND IN THE SAVANNAH AREA BY LATE TONIGHT.

TAYLOR

ISSUED FROM WBAS SAVANNAH GA. AT 2030E AUGUST 28 1964

CLEO CONTINUES ITS NORTHWARD MOVEMENT ALONG THE GEORGIA COAST. AT 8 PM THE STORM WAS CENTERED NEAR BRUNSWICK GEORGIA AND MOVING TOWARDS THE NORTH AT NEAR 9 MPH. WINDS AT TRAVIS FIELD ARE NOW RUNNING AT 30 MPH WITH SQUALLS TO 45 MPH. REPORTS INDICATE HIGHER GUSTS ARE OCCURRING IN THE COASTAL SECTIONS. THE WINDS WILL CONTINUE TO INCREASE SLOWLY REACHING 55 TO 65 MPH NEAR MIDNIGHT AND SHOULD NOT START DIMINISHING UNTIL AFTER 4 AM SATURDAY. WATERS ARE ALREADY DANGEROUSLY HIGH.

TIDES ARE RUNNING 2 TO 3 FEET ABOVE NORMAL BUT AT HIGH TIDE WE CAN EXPECT AS MUCH AS 3 TO 5 FEET EXTRA WATER. THIS WILL GIVE US A 10 TO 12 FOOT TIDE BETWEEN 1130 PM AND 1230 AM TONIGHT LIKELY ENDING THE FLOODING THREAT FOR THIS AREA. HOWEVER FLOODING WILL OCCUR IN THE COASTAL AND LOW LYING AREAS WITH THE HIGH TIDE TONIGHT.

AS THE STORM APPROACHES SAVANNAH WE STRONGLY URGE EVERYONE TO STAY OFF THE STREETS AND KEEP IN TOUCH WITH FUTURE ADVISORIES. BULLETINS AND STATEMENTS ON CLEO. TRAVEL SHOULD BE LIMITED TO ONLY CASES OF EMERGENCY SINCE DRIVING CONDITIONS ARE ALREADY HAZARDOUS IN THIS AREA.

BELL

ISSUED FROM WBAS SAVANNAH GA. AT 11 PM EST AUGUST 28 1964

VERY HEAVY RAIN IS FALLING OVER 85 PERCENT OF AN AREA WITHIN 40 MILES OF SAVANNAH AND WINDS ARE STILL NORTHEAST AT 20 TO 35 MPH WITH HIGHER GUSTS REPORTED IN THE COASTAL SECTIONS. WHILE RAINFALL REPORTS ARE INCOMPLETE SOME ARE NOW AVAILABLE. HERE AT TRAVIS FIELD 4.59 INCHES HAD FALLEN UP TO 11 PM. BRUNSWICK REPORTED 1.79 INCHES AT 7 PM BUT THE RAIN DID NOT END UNTIL AFTER 9 PM. VERNON VIEW REPORTS 7.10 INCHES AT 11 PM ISLE OF HOPE NEAR 6 INCHES AT 11 PM AND DOWNTOWN SAVANNAH HAD 2.16 AT 7 PM. RAIN IS STILL FALLING AT ALL THE STATIONS MENTIONED ABOVE EXCEPT BRUNSWICK.

THERE ARE SEVERAL REPORTS OF STREET FLOODING AND WATER IS REPORTED IN SOME HOUSES IN THE HOLLY HEIGHTS SUB DIVISION. ROTTEN TREE LIMBS ARE DOWN OVER THE COUNTY AND ELECTRICAL POWER IS OFF IN SOME SECTIONS. SINCE THE WINDS ARE TO REMAIN IN THE GALE FORCE CATEGORY TIDAL FLOODING WILL BE A PROBLEM ONLY IN THOSE AREAS BELOW 10 TO 11 FEET TONIGHT. HEAVY RAINS WILL CAUSE SOME INLAND FLOODING IN THOSE AREAS NEAR OUR RIVERS AND STREAMS. RAINS OF 5 TO 10 INCHES ARE POSSIBLE IN MOST SECTIONS OF CHATHAM COUNTY GEORGIA AND JASPER AND BEAUFORT COUNTY SOUTH CAROLINA.

BELL

ISSUED BY CHARLESTON WEATHER BUREAU 5 AM EST SATURDAY AUGUST 29 1964

FROM THE PRESENT TIME UNTIL ABOUT 9 AM THIS MORNING SCATTERED SEVERE THUNDERSTORMS WITH THE POSSIBILITY OF AN ISOLATED TORNADO OR TWO MAY BE EXPECTED IN THE CHARLESTON AREA OF RESPONSIBILITY COVERING THE FOLLOWING COUNTIES OF EASTERN SOUTH CAROLINA... CHARLESTON...DORCHESTER...GEORGETOWN...BERKELEY...HORRY...AND WILLIAMSBURG.

AT 5 AM THE CHARLESTON WEATHER RADAR INDICATES A LINE OF HEAVY THUNDERSTORMS LYING EAST-WEST FROM LAKE MARION TO JUST SOUTH OF GEORGETOWN MOVING NORTH AT 12 KNOTS WITH A SMALL LINE E-W VICINITY OF CHARLESTON.

AN UNCONFIRMED TORNADO THAT DAMAGED TWO HOMES SEVERELY ABOUT 1250 AM THIS MORNING 10 MILES SOUTH-SOUTHEAST OF THE CHARLESTON AIRPORT WAS APPARENTLY SPAWNED ON THE LINE OF THUNDERSTORMS NOW NEAR GEORGETOWN.

LATER STATEMENTS WILL FOLLOW AS CONDITIONS WARRANT.

ISSUED BY CHARLESTON WEATHER BUREAU 0818 EST AUGUST 29 1964

SCATTERED SEVERE THUNDERSTORMS AND A TORNADO OR TWO ARE EXPECTED BETWEEN 9 AM EST AND 3 PM EST TODAY IN THE FOLLOWING AREAS...
WILLIAMSBURG...BERKELEY...AND HORRY COUNTIES AND THE NORTH PORTION OF CHARLESTON AND DORCHESTER COUNTIES.

A TORNADO OCCURRED EARLY THIS MORNING ABOUT 1 AM IN THE LAWTONS BLUFF AREA ON JAMES ISLAND IN CHARLESTON COUNTY SEVERELY DAMAGING
ONE HOUSE WITH LESSER DAMAGE TO ANOTHER AND SEVERAL TREES DESTROYED. NO SERIOUS INJURIES WERE REPORTED.

