

PRELIMINARY REPORT

HURRICANE KLAUS

5-13 NOVEMBER 1984

A BROAD LOW PRESSURE AREA BEGAN DEVELOPING OVER THE EXTREME SOUTHEASTERN CARIBBEAN SEA ON 1 NOVEMBER. THE SYSTEM DRIFTED SLOWLY WESTWARD UNTIL 4 NOVEMBER WHEN IT BECAME NEARLY STATIONARY NORTH OF CURACAO. A LOW LEVEL CIRCULATION SLOWLY FORMED DURING THE NEXT 24 HOURS. ON 6 NOVEMBER AIR FORCE RECONNAISSANCE AIRCRAFT PRESSURE AND WIND PATTERNS INDICATED THAT THE FIFTEENTH TROPICAL DEPRESSION OF THE 1984 HURRICANE SEASON WAS ORGANIZING MIDWAY BETWEEN THE DUTCH ANTILLES AND PUERTO RICO.

THE DEPRESSION DEVELOPED INTO TROPICAL STORM KLAUS JUST SOUTH OF PUERTO RICO ON THE AFTERNOON OF 6 NOVEMBER. THE CENTER PASSED OVER THE EXTREME EASTERN PORTION OF PUERTO RICO DURING THAT NIGHT AND CONTINUED NORTHEASTWARD INTO THE ATLANTIC. BY THE EVENING OF 7 NOVEMBER, AIRCRAFT REPORTED A PRESSURE OF 988 MB WITH FLIGHT LEVEL WINDS OF 70 KNOTS SHOWING THAT KLAUS HAD ATTAINED HURRICANE STRENGTH.

FOR THE NEXT SEVERAL DAYS, HURRICANE KLAUS MOVED NORTHEASTWARD WITH A GRADUAL INCREASE IN FORWARD SPEED. IT WAS DURING THIS PERIOD THAT RECONNAISSANCE PLANES INDICATED KLAUS HAD REACHED MAXIMUM STRENGTH WITH SUSTAINED WINDS OF 80 KNOTS ON 8-9 NOVEMBER. GENERAL PRESSURE FALLS SURROUNDING THE STORM ON 10 NOVEMBER CAUSED THE TIME OF MINIMUM SEA LEVEL PRESSURE (971 MB BY RECONNAISSANCE DROPSONDE) TO OCCUR 24 TO 48 HOURS AFTER THE MAXIMUM SUSTAINED

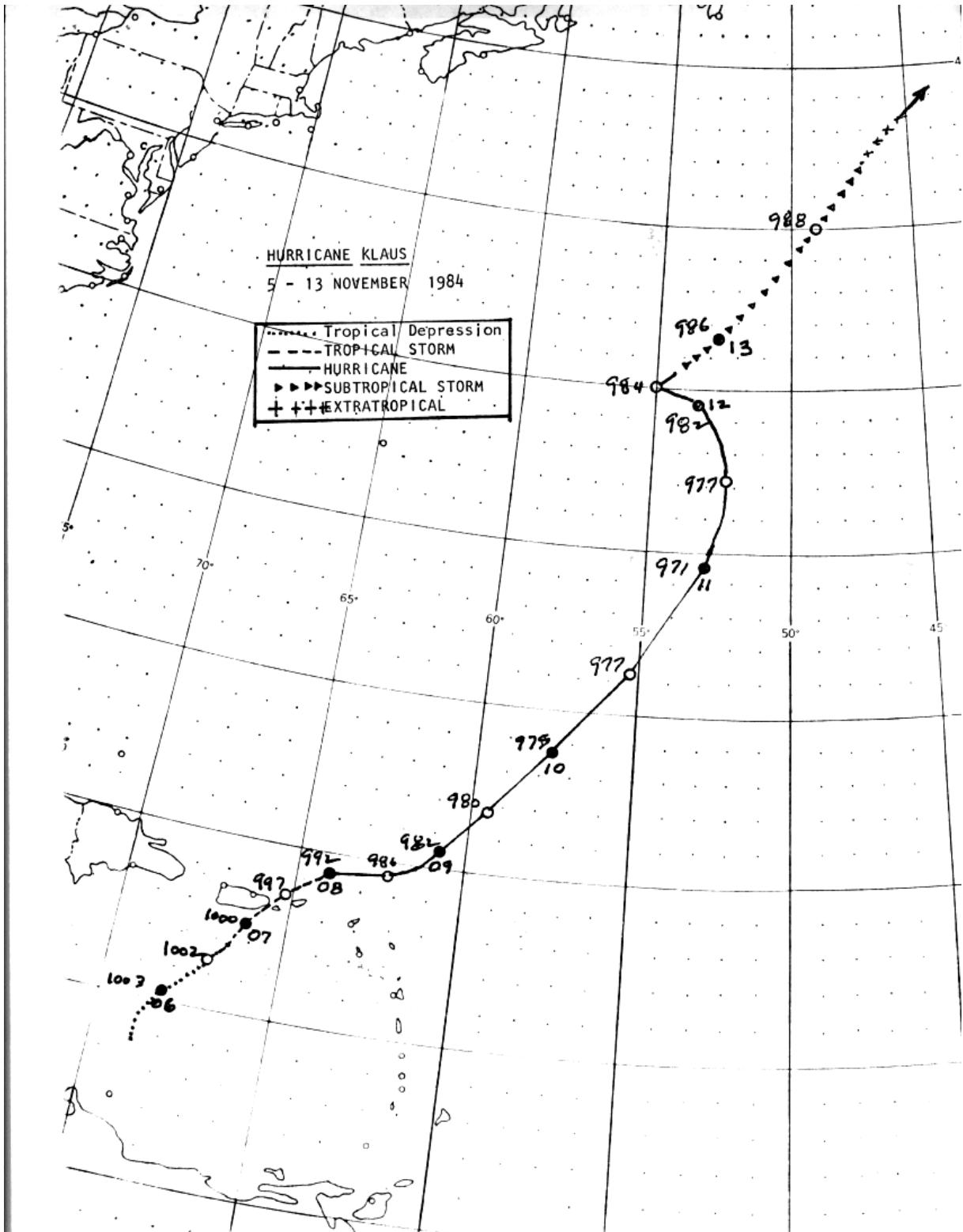
WINDS WERE OBSERVED. DURING THE TIME KLAUS WAS IN THE SHIPPING LANES OF THE MID NORTH ATLANTIC A NUMBER OF SHIPS REPORTED WINDS IN EXCESS OF 50 KNOTS AND ONE SHIP HAD 70 KNOT WINDS.

ON 11 NOVEMBER, INTERACTION WITH AN UPPER LEVEL LOW PRESSURE SYSTEM CREATED A DECELERATING TURN TOWARD THE NORTHWEST UNTIL THE MORNING OF 12 NOVEMBER. THEREAFTER THE HURRICANE CAME UNDER THE INFLUENCE OF AN APPROACHING MAJOR TROUGH AND AGAIN ACCELERATED TOWARD THE NORTHEAST. AS THE STORM WEAKENED THE AREA OF MAXIMUM WINDS AND CONVECTION SHIFTED WELL AWAY FROM THE CENTER. COLD AIR ADVECTING INTO THE SYSTEM CAUSED IT TO GRADUALLY LOSE TROPICAL CHARACTERISTICS.

HEAVY RAINS AND SOME MOUNTAIN FLOODING OCCURRED OVER PUERTO RICO AS THE SYSTEM ORGANIZED. THREE TO SIX INCHES OF RAIN FELL OVER THE OVER THE VIRGIN AND NORTHERN LEEWARD ISLANDS AS THE STORM CENTER PAST JUST NORTH OF THE ISLANDS ON 7 NOVEMBER. THERE WERE NO CASUALTIES ON ANY OF THE CARIBBEAN ISLANDS AND PRELIMINARY ESTIMATES INDICATED MINIMAL DAMAGE.

PRELIMINARY BEST TRACK - HURRICANE KLAUS
5 TO 13 NOVEMBER 1984

<u>DATE</u>	<u>TIME</u> <u>(GMT)</u>	<u>POSITION</u>		<u>PRESSURE</u> <u>(MB)</u>	<u>WIND</u> <u>(KT)</u>	<u>STAGE</u>
		<u>LAT.</u>	<u>LONG.</u>			
11/5	1800	14.7	68.8	1004	15	Tropical Depression
11/6	0000	15.2	68.1	1003	15	" "
	0600	15.8	67.7	1003	20	" "
	1200	16.4	67.1	1002	25	" "
	1800	17.0	66.7	1001	35	Tropical Storm
11/7	0000	17.4	66.2	1000	40	" "
	0600	18.0	65.8	998	45	" "
	1200	18.5	65.2	997	50	" "
	1800	19.1	64.7	995	60	" "
11/8	0000	19.4	64.0	992	65	Hurricane
	0600	19.6	63.1	989	70	"
	1200	19.7	62.2	986	75	"
	1800	19.9	61.4	984	80	"
11/9	0000	20.4	60.8	982	80	"
	0600	21.1	60.1	981	80	"
	1200	21.8	59.5	980	80	"
	1800	22.7	58.7	980	80	"
11/10	0000	23.8	57.8	979	80	"
	0600	24.8	56.6	978	75	"
	1200	26.2	55.2	977	75	"
	1800	28.0	54.0	975	75	"
11/11	0000	29.5	53.0	971	75	"
	0600	31.0	52.5	975	70	"
	1200	32.2	52.4	977	70	"
	1800	33.4	52.7	980	70	"
11/12	0000	34.6	53.4	982	70	"
	0600	34.8	54.2	983	70	"
	1200	35.0	55.0	984	65	"
	1800	35.5	54.2	985	60	Subtropical Storm
11/13	0000	36.5	52.8	986	60	" "
	0600	38.0	51.0	987	55	" "
	1200	40.0	49.0	988	55	" "
	1800	42.0	47.0	989	50	Extratropical



HURRICANE KLAUS
 NOVEMBER 5-13, 1984
 MINIMUM SEA LEVEL PRESSURE

- △ AIR FORCE RECONNAISSANCE
- NOAA SATELLITE
- SURFACE ANALYSIS

