HURRICANE PATRICIA
042100Z OCT TO 111800Z OCT 1970

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 29
2. NUMBER OF WARNINGS WITH HURRICANE INTENSITY - 13
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 1860NM.

B. CHARACTERISTICS

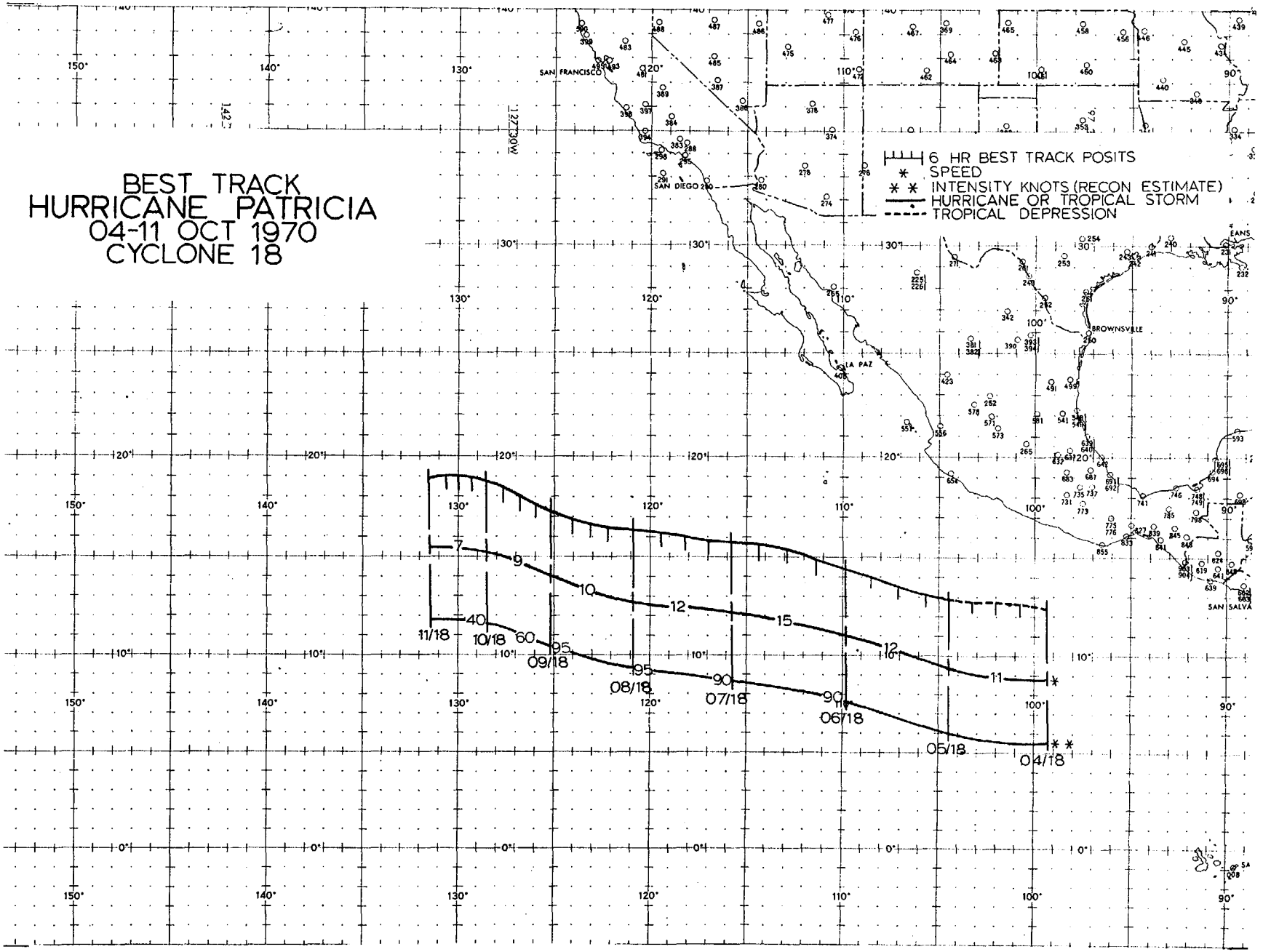
1. MINIMUM OBSERVED SLP - 976 MB
2. MINIMUM OBSERVED 700 MB HEIGHT - NOT OBSERVED
3. MAXIMUM SURFACE WIND - 95 KTS
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - 360 MI.

II. DEVELOPMENT

A. INITIAL IMPETUS - ITCZ (TROPICAL CYCLONE #18)
B. INITIAL SURFACE VORTEX: 042100Z (ITOS - 1)
C. TIME STORM REACHED HURRICANE INTENSITY - 061800Z

III. FINAL DISPOSITION

A. DISSIPATED OVER WATER


BEST TRACK
HURRICANE PATRICIA
04-11 OCT 1970
CYCLONE 18
6 HR BEST TRACK POSITS
SPEED
INTENSITY KNOTS (RECON ESTIMATE)
HURRICANE OR TROPICAL STORM
TROPICAL DEPRESSION
SAN FRANCISCO
SAN DIEGO
LA PAZ
BROWNSVILLE
SAN SALVA
127°30'W
11/18
10/18
09/18
08/18
07/18
06/18
05/18
04/18

POSITION FROM BEST TRACK AND VERIFICATION DATA

	STORM POSIT		24 HR ERROR	48 HR ERROR	72 HR ERROR
TIME	LAT	LONG	DEG/DIST	DEG/DIST	DEG/DIST
041800Z	12.4N	99.6W	-	-	-
050000Z	12.6N	100.8W	-	-	-
050600Z	12.7N	102.0W	-	-	-
051200Z	12.8N	103.2W	-	-	-
051800Z	12.9N	104.4W	085/173	-	-
060000Z	13.1N	105.6W	160/100	-	-
060600Z	13.5N	107.0W	155/132	-	-
061200Z	14.0N	108.4W	125/144	-	-
061800Z	14.5N	109.8W	130/072	-	-
070000Z	14.9N	111.3W	135/096	-	-
070600Z	15.4N	112.8W	130/145	-	-
071200Z	15.7N	114.3W	120/177	-	-
071800Z	15.8N	115.7W	050/037	125/143	-
080000Z	15.9N	116.9W	020/069	105/181	-
080600Z	16.1N	118.1W	020/090	100/190	-
081200Z	16.3N	119.4W	055/188	095/205	-
081800Z	16.5N	120.8W	290/036	110/039	-
090000Z	16.6N	122.2W	300/028	060/048	080/252
090600Z	16.8N	123.0W	090/066	050/357	-
091200Z	17.0N	124.0W	270/107	055/378	075/247
091800Z	17.4N	125.1W	295/039	230/067	-
100000Z	17.7N	125.9W	270/066	230/105	220/055
100600Z	18.1N	126.8W	290/050	225/146	-
101200Z	18.4N	127.6W	310/075	240/216	050/495
101800Z	18.7N	128.5W	270/084	350/104	-
110000Z	18.9N	129.2W	015/348	330/097	220/235
110600Z	18.9N	129.9W	045/450	295/147	-
111200Z	18.9N	130.6W	020/455	330/180	245/345
111800Z	18.9N	131.4W	290/084	330/177	-

24 HR FORECAST ERROR = 132 MI
48 HR FORECAST ERROR = 163.5 MI
72 HR FORECAST ERROR = 271.5 MI

EYE FIXES TROPICAL CYCLONE #18 (HURRICANE PATRICIA)

FIX NO.	TIME	POSIT		UNIT/ACCURACY		FLT LVL	OBS. SFC WND	OBS. SLP	MIN 700 HT	FLT LVL TT/TO	EYE FORM	ORIEN-TATION	DIAM EYE	
1	061829Z	14.5N	109.9W	9th AF	10nm	500mb	90KTS	979	-	15/10	C		15	*
2	071825Z	15.8N	115.7W	VW-1	10nm	700mb	90KTS	976	2801M	22/14	C		15	*
3	081750Z	16.5N	120.8W	9th AF	10nm	500mb	95KTS	-	-	- -	C		15	
4	091745Z	17.4N	125.1W	VW-1	20nm	700mb	95KTS	980	-	25/23	C		15	*
5	100000Z	18.7N	125.7W	9th AF(FAN)	20nm	300mb	60KTS	-	-	- -	C		15	
6	101830Z	18.7N	128.5W	VW-1	15nm	700mb	40KTS	-	-	23/22	C		20	

* CLOSED WALL CLOUD AT 061829Z WALL CLOUD 12 MILES THICK AT 071825Z

WALL CLOUD 10 MILES THICK AT 091745Z

Fleet Weather Central, Pearl Harbor issued warnings on three tropical cyclones in 1970. Only one of these systems, Hurricane Dot, originated in the Central Pacific. Tropical Storm Maggie developed in the Fleet Weather Central, Alameda area of responsibility. Tropical Depression One Two, previously Hurricane Lorraine in the Eastern Pacific, existed only as a tropical depression in the Central Pacific.

Total Number of Warnings	27
Calendar Days of Warnings	8
Tropical Depressions	1
Tropical Storms	1
Hurricanes	1
Total Tropical Cyclones	3

No damage resulting from tropical cyclone activity was reported during 1970. In its formative stages Hurricane Dot passed near Midway Island causing increased precipitation and winds. Tropical Storm Maggie passed south of the Island of Hawaii where above normal cloudiness and precipitation were reported. Post analysis of data indicated that Hurricane Dot was possibly a regeneration of Tropical Storm Maggie. The distance between the position in the final warning on Maggie and the first warning on Dot was 1550 miles. The elapsed time indicates an average speed of 9 knots during this period. The connection was supported mainly by satellite pictures.

All warnings were coordinated with the Central Pacific Hurricane Center, Honolulu in accordance with the National Hurricane Operations Plan. The main forecasting tool used by Fleet Weather Central, Pearl Harbor was TYRACK, a computerized forecasting system based on tropical wind fields.

TROPICAL CYCLONES FOR THE 1970 SEASON

CYCLONE	PERIOD
TROPICAL STORM MAGGIE	23 AUG - 27 AUG 1970
TROPICAL DEPRESSION ONE TWO	26 AUG - 27 AUG 1970
HURRICANE DOT	2 SEP - 4 SEP 1970

TROPICAL STORMS 1970
POSITION DATA

TROPICAL STORM MAGGIE
23 AUG - 27 AUG

DTG	LAT	LONG	DTG	LAT	LONG
230000Z	14.8N	139.0W	250600Z	17.7N	151.4W
230600Z	15.0N	139.9W	251200Z	18.1N	152.9W
231200Z	15.1N	140.7W	251800Z	17.3N	154.0W
231800Z	15.3N	142.0W	260000Z	17.5N	155.5W
240000Z	15.5N	143.0W	260600Z	17.5N	156.6W
240600Z	15.8N	144.7W	261200Z	17.5N	157.7W
241200Z	15.9N	145.8W	261800Z	17.2N	157.0W
241800Z	17.0N	149.0W	270000Z	17.2N	157.8W
250000Z	17.4N	150.1W			

TROPICAL DEPRESSIONS 1970
POSITION DATA

TROPICAL DEPRESSION ONE TWO
26 AUG - 27 AUG

DTG	LAT	LONG	DTG	LAT	LONG
270000Z	20.0N	141.0W	271200Z	20.0N	143.0W
270600Z	20.0N	142.0W	271800Z	20.0N	144.0W