TYPHOON MAMIE - 150600Z to 181200Z OCTOBER

I. DATA

A. Statistics

1. Calendar days of tropical warning - 3½
2. Calendar days of typhoon intensity - 3
3. Total distance traveled during tropical warning period - 1116 mi

B. Characteristics as a typhoon

1. Minimum observed SLP - 971mb, 170400Z
2. Minimum observed 700mb height 2819m, 170400Z
3. Max radius of SFC circulation - 500 mi
4. Max surface winds - 100 kts

II. DEVELOPMENT

A. Initial impetus - Northeastward movement of intensifying anticyclone at 200mb placing surface vortex under favorable divergent flow

B. Initial surface vortex

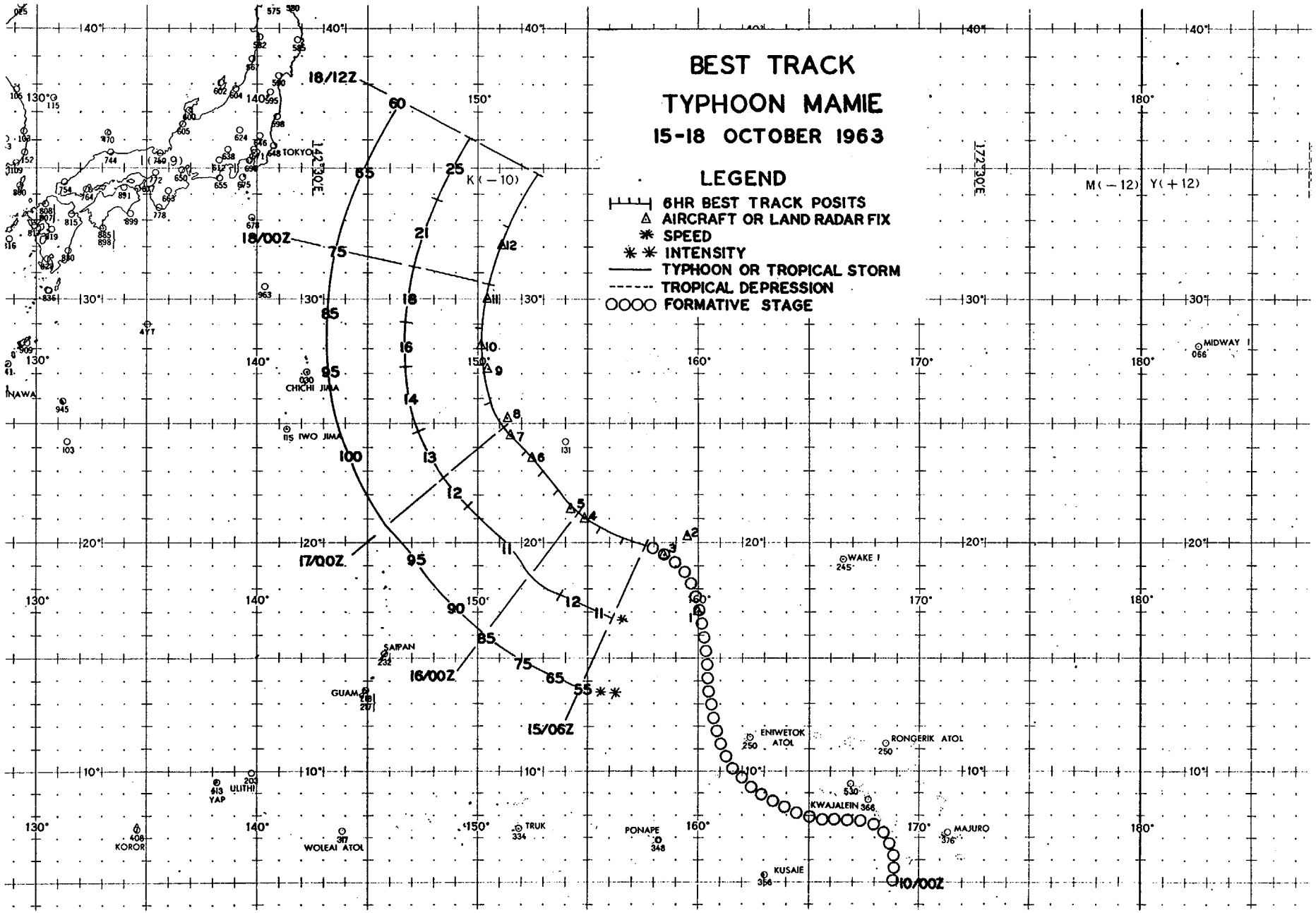
1. Junction vortex at 100000Z
2. Surface pressure less than 1008mb

C. Zenith flow at 200mb

1. Relative position surface vortex - SW quadrant of anticyclone
2. Wind direction over vortex - ESE

III. FINAL DISPOSITION

A. Became extratropical


BEST TRACK
TYPHOON MAMIE
15-18 OCTOBER 1963
LEGEND
6HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
18/12Z
18/00Z
17/00Z
16/00Z
15/06Z
10/00Z
142°30'E
172°30'E
K(−10)
M(−12)
Y(+12)
TOKYO
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
KUSAIE
ENIWETOK ATOL
KWAJALEIN
RONGERIK ATOL
WAKE I
MAJURO
MIDWAY I

LAND RADAR AND AIRCRAFT FIXES - TYPHOON MAMIE

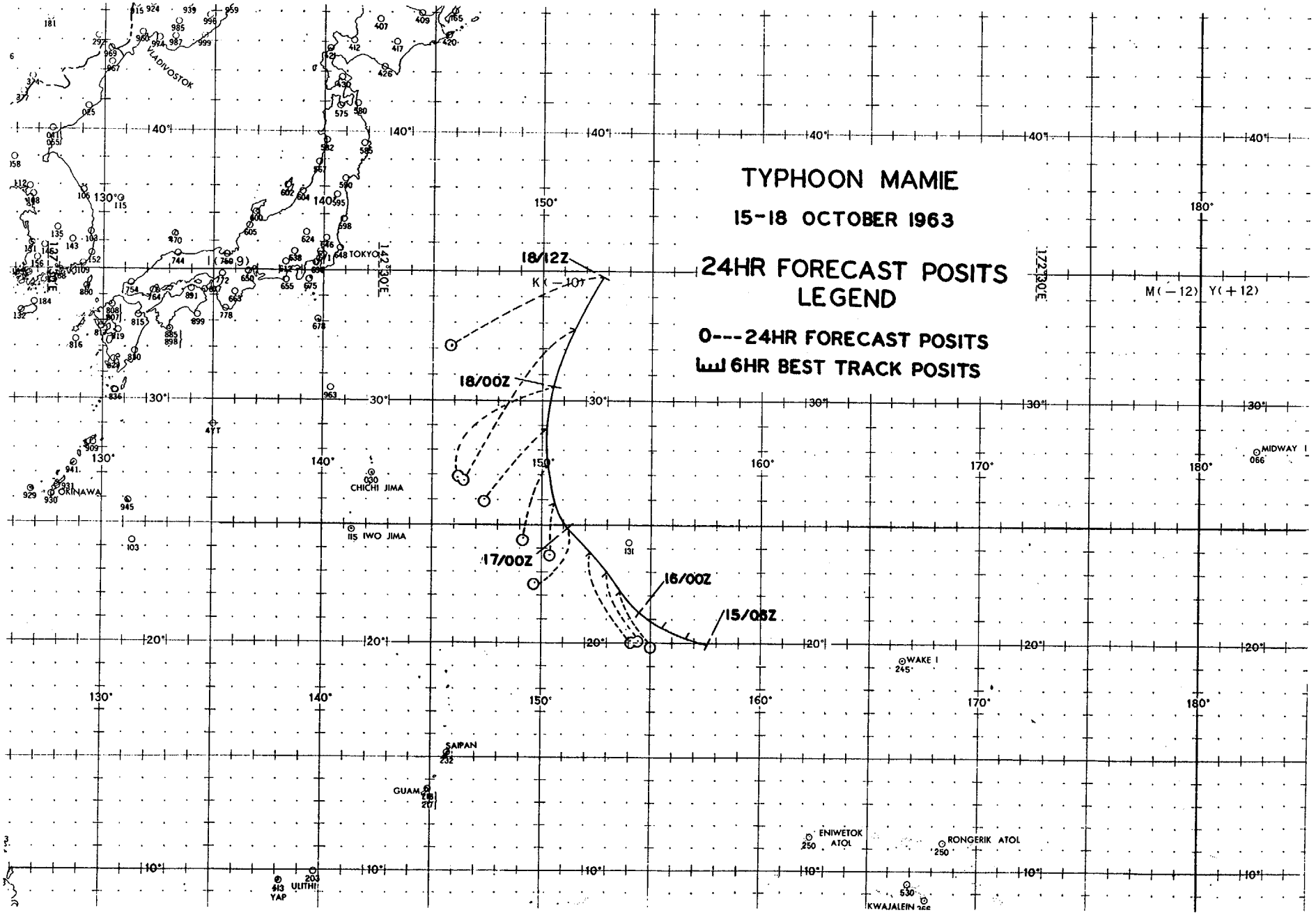
FIX NO/TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	RECON MIN SLP MBS	JTWC MIN SLP *MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
1 131335Z	17.0N	160.0E	PAA-R-U	-	-	-	-	-	- -	---
2 140650Z	20.3N	159.5E	VW1-P-15	20	-	-	999	-	- -	ELLIP 100 MI N-S,60 MI E-W
3 150120Z	19.5N	158.6E	VW1-P-05	45	-	-	992	-	- -	2ND VORTEX LOCATED 19.5N 157.1E
4 152130Z	21.0N	154.8E	VW1-P-10	80	-	2830	982	972	18/12	ELLIP 24 MI N-S,18 MI E-W
5 160400Z	21.4N	154.2E	56-P-08	85	54	2923	984	982	16/16	CIRC
6 161530Z	23.6N	152.5E	VW1-R-05	-	-	-	-	-	- -	ELLIP 47MI NE-SW,35MI NW-SE, OPEN W,WALL CLDS 4MI THICK
7 162200Z	24.4N	151.5E	56-P-10	90	75	2850	971	974	18/11	CIRC 35 MI DIA,CLSD
8 170400Z	25.1N	151.3E	56-P-10	120	75	2819	967	971	15/13	CIRC 35 MI DIA,CLSD
9 171030Z	27.2N	150.4E	VW1-R-10	-	-	-	-	-	- -	CIRC 23MI DIA,OPEN W,WALL CLDS 13MI THICK E SEMICIRC
10 171530Z	28.2N	150.2E	VW1-R-05	-	-	-	-	-	- -	WALL CLDS NE QUAD,6-9MI THICK
11 172200Z	30.0N	150.5E	56-P-07	50	65	2899	980	977	20/16	WALL CLDS E QUAD
12 180400Z	32.0N	151.1E	56-P-05	85	78	2947	984	982	21/16	NO RDR EYE,SYSTEM STRATIFYING

*Computed

TYPHOON MAMIE 15 OCT-18 OCT 1963
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
150600Z	19.9N	157.7E	------	------
151200Z	20.2N	156.6E	------	------
151800Z	20.7N	155.4E	------	------
160000Z	21.3N	154.5E	------	------
160600Z	22.2N	153.7E	152-156	------
161200Z	23.0N	153.0E	155-187	------
161800Z	23.9N	152.1E	154-246	------
170000Z	24.8N	151.2E	210-150	------
170600Z	25.9N	150.6E	188-125	163-325
171200Z	27.3N	150.2E	198-177	170-384
171800Z	28.9N	150.2E	222-225	173-468
180000Z	30.6N	150.6E	227-322	218-483
180600Z	32.7N	151.4E	216-417	219-480
181200Z	34.8N	152.9E	244-382	222-625

AVERAGE 24 HOUR ERROR 239 MI
AVERAGE 48 HOUR ERROR 461 MI


TYPHOON MAMIE
15-18 OCTOBER 1963
24HR FORECAST POSITS
LEGEND
0---24HR FORECAST POSITS
6HR BEST TRACK POSITS
18/12Z
18/00Z
17/00Z
16/00Z
15/08Z
K(-10)
M(-12) Y(+12)
VLADIVOSTOK
TOKYO
OKINAWA
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
YAP
ULITHI
WAKE I
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
MIDWAY I
127°30'E
130°
140°
150°
160°
170°
180°
40°
30°
20°
10°