TROPICAL CYCLONE 30 - 11/09/0500Z TO 11/23/2300Z
(MAMIE)

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 52
2. NUMBER OF WARNINGS WITH TYPHOON INTENSITY - 09
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 2154 MI

B. CHARACTERISTICS AS A TYPHOON

1. MINIMUM OBSERVED SLP - 972MBS AT 180815Z
2. MINIMUM OBSERVED 700MB HEIGHT - 2866M. AT 210845Z
3. MAXIMUM SURFACE WIND - 065 KTS (FROM BEST TRACK)
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - 300 MI

II. DEVELOPMENT

A. INITIAL IMPETUS - LOW LEVEL SURGE INTO CYCLONIC CIRCULATION FROM THE SOUTH WITH SUBSEQUENT DIVERGENCE AT 200MB LEVEL

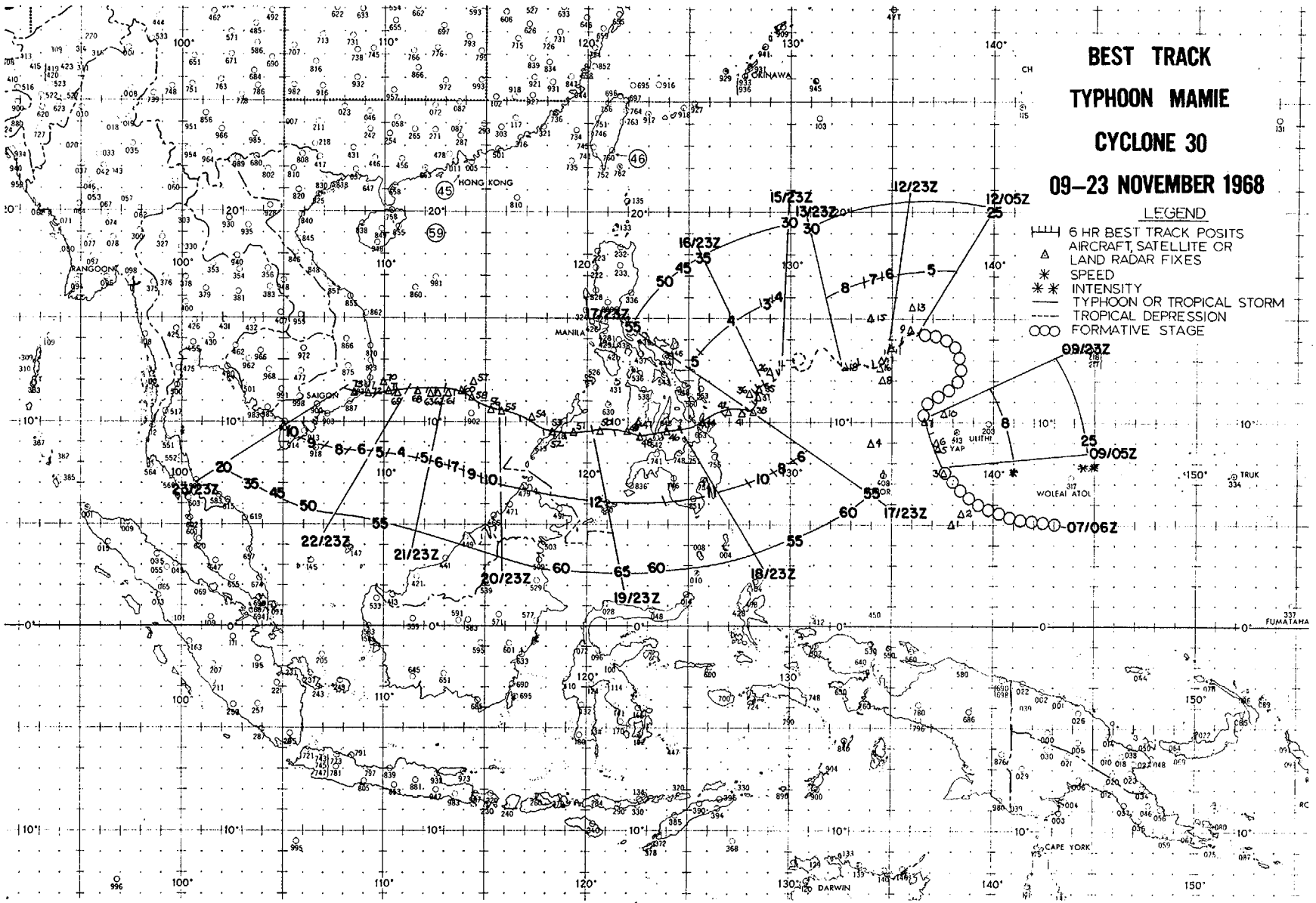
B. INITIAL SURFACE VORTEX

1. JUNCTION VORTEX AT 070600Z
2. SURFACE PRESSURE LESS THAN 1006MB

C. 200MB FLOW ABOVE SURFACE VORTEX

1. INITIAL - EAST
2. UPON REACHING TYPHOON INTENSITY - SOUTHEAST

III. FINAL DISPOSITION - DISSIPATED OVER LAND


BEST TRACK
TYPHOON MAMIE
CYCLONE 30
09–23 NOVEMBER 1968
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
HONG KONG
MANILA
SAIGON
RANGOON
OKINAWA
ULITHI
YAP
WOLEAI ATOL
TRUK
FUMATAMA
CAPE YORK
DARWIN
07/06Z
09/05Z
09/23Z
12/05Z
12/23Z
13/23Z
15/23Z
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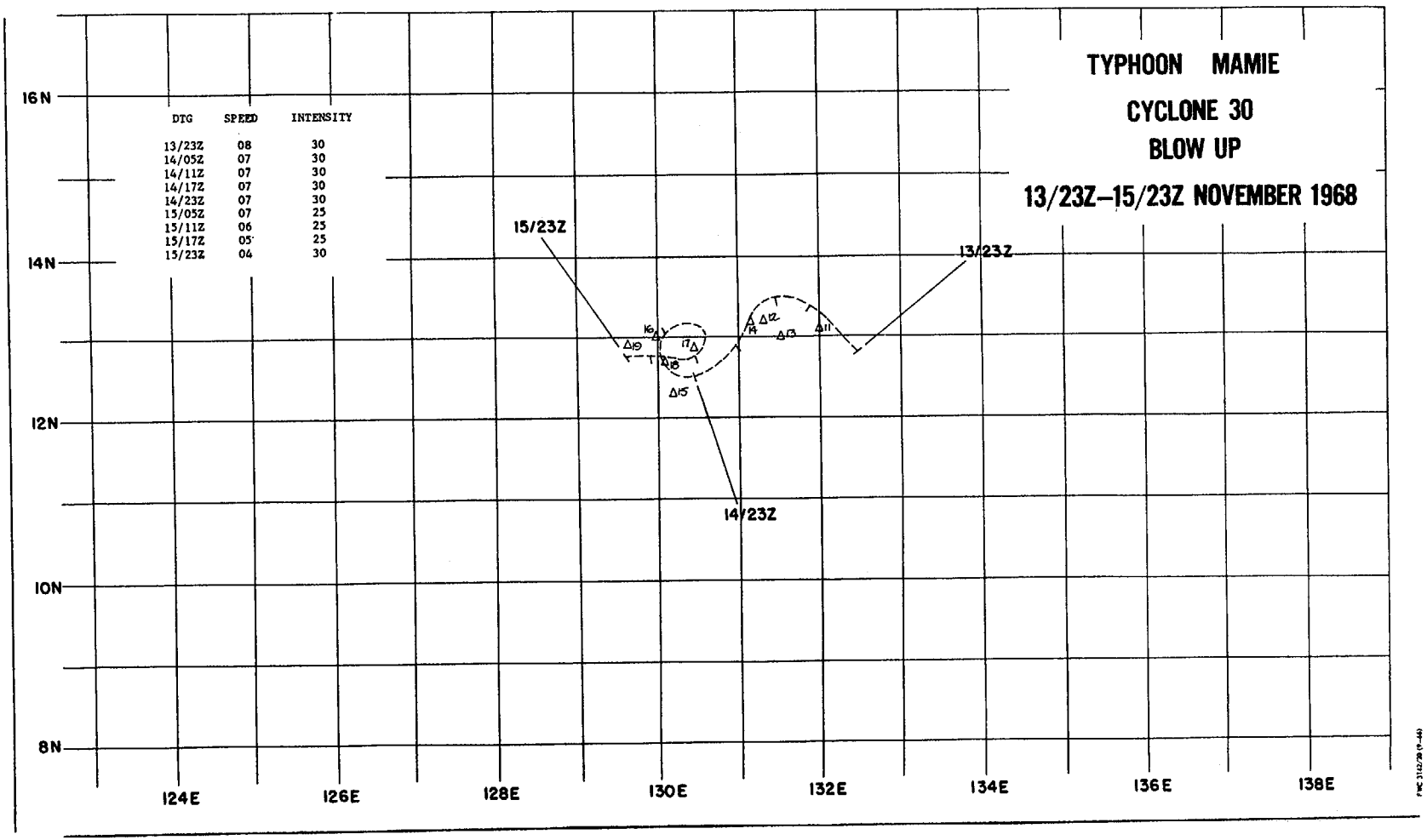
20/23Z
21/23Z
22/23Z
23/23Z


TYPHOON MAMIE
CYCLONE 30
BLOW UP
13/23Z–15/23Z NOVEMBER 1968
DTG SPEED INTENSITY
13/23Z 08 30
14/05Z 07 30
14/11Z 07 30
14/17Z 07 30
14/23Z 07 30
15/05Z 07 25
15/11Z 06 25
15/17Z 05 25
15/23Z 04 30
15/23Z
13/23Z
14/23Z
16N
14N
12N
10N
8N
124E
126E
128E
130E
132E
134E
136E
138E

EYE FIXES CYCLONE 30

FIX NO.	TIME	POSIT	UNIT-METHOD -ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	THKNS WALL CLOUD
1	060515Z	05.0N 138.0E	SLTLS	STG A	DIA --	BNDS -							
2	080510Z	05.5N 138.5E	SLTLS	STG C	DIA --	BNDS -							
3	090240Z	07.6N 137.5E	54-P-03-10	0470M	025	025	003	---	26/26	----			--
4	090605Z	09.0N 134.0E	SLTLS	STG C	DIA --	BNDS -							
5	091240Z	08.9N 137.2E	VW-P-10-10	0360M	---	025	006	---	24/23	----			--
6	091440Z	09.0N 137.1E	VW-P-05-10	0450M	---	025	006	---	24/22	----			--
7	092225Z	10.0N 136.7E	54-P-05-15	0480M	018	015	003	---	25/24	----			--
8	100505Z	12.0N 134.5E	SLTLS	STG A	DIA --	BNDS -							
9	101240Z	14.5N 136.0E	ACFT RDR		---	---	---	---	--/--	----			--
10	110108Z	11.4N 137.6E	54-P-02-20		025	025	002	---	27/26	----			--
11	110600Z	13.5N 135.0E	SLTLS	STG A	DIA --	BNDS -							
12	120005Z	14.2N 136.7E	VW-P-02-10	0330M	---	030	001	---	21/19	CIRC	----	10	--
13	120505Z	15.5N 136.0E	SLTLS	STG C	DIA --	BNDS -							
14	130130Z	13.3N 134.6E	54-P-02-15	700MB	036	040	006	3139	12/--	----			N.F.B.
15	130555Z	15.0N 134.0E	SLTLS	STG C	DIA --	BNDS -							
16	130820Z	12.7N 134.5E	VW-P-03-10	0310M	025	025	001	---	27/24	----			--
17	131410Z	13.0N 134.4E	VW-P-03-10	700MB	---	---	002	3150	17/13	CIRC	----	20	F.B.
18	132205Z	12.8N 132.8E	54-P-03-02	700MB	040	035	994	3063	16/11	----			F.B.
19	140245Z	13.1N 132.0E	54-P-03-03	700MB	040	045	997	3085	14/11	----			--
20	140650Z	13.5N 130.5E	SLTLS	STG X	DIA 03	BNDS 2							
21	140900Z	13.2N 131.3E	VW-R----05		---	---	---	---	--/--	----			--
22	140928Z	13.0N 131.5E	VW-P-02-05	0450M	---	025	996	---	26/24	CIRC	----	40	--
23	141405Z	13.2N 131.2E	VW-P-02-10	0450M	---	---	998	---	24/--	----			F.B.
24	142145Z	12.3N 130.2E	54-P-05-10	700MB	030	025	996	3072	13/12	----			F.B.

EYE FIXES CYCLONE 30

FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	THKNS WALL CLOUD
25	150230Z	13.0N 130.0E	54-P-10-03	700MB	035	035	000	3100	13/12	----			--
26	150530Z	12.5N 129.0E	SLTLS	STG X	DIA 03	BNDS 1							
27	150900Z	12.8N 130.4E	VW-P-10-03	0450M	---	022	000	---	25/24	----			--
28	151405Z	12.7N 130.1E	VW-P-03-03	700MB	---	---	001	3170	11/12	CIRC	----	20	--
29	152220Z	12.9N 129.7E	54-P-03-03	700MB	015	035	---	3082	11/10	----			N.F.B.
30	160245Z	12.6N 129.8E	54-P-07-02	700MB	035	035	979	2923	12/11	CIRC	----	15	N.F.B.
31	160646Z	13.0N 129.0E	SLTLS	STG X	DIA 03	BNDS 1							
32	160810Z	12.2N 130.1E	54-P-05-03	700MB	035	035	992	3039	15/12	CIRC	----	25	--
33	161530Z	12.1N 129.3E	VW-P-05-05		---	030	992	---	25/21	----			F.B.
34	162000Z	12.2N 129.3E	VW-P-07-05	0360M	---	030	994	---	26/23	ELIP	NW-SE	99X80	--
35	170230Z	11.8N 128.5E	54-P-05-04	700MB	045	070	983	2978	18/11	----			--
36	170545Z	11.5N 128.0E	SLTLS	STG X	DIA 03	BNDS 2							
37	170834Z	11.2N 128.4E	54-P-05-04	700MB	040	055	985	2951	15/10	ELIP	N-S	20X10	--
38	171600Z	10.7N 128.1E	VW-R-05-10		---	---	---	---	--/--	CIRC	----	50	--
39	171730Z	10.8N 128.3E	VW-P-----05		---	---	---	---	--/--	----			--
40	172005Z	10.6N 128.3E	VW-R-05-10		---	---	---	---	--/--	CIRC	----	40	--
41	180246Z	10.4N 127.6E	54-P-08-03	700MB	074	055	976	2899	18/12	CIRC	----	30	--
42	180640Z	10.5N 127.0E	SLTLS	STG X	DIA 02	BNDS 2							
43	180815Z	10.8N 127.0E	54-P-05-02	700MB	075	080	972	2874	20/12	CIRC	----	30	10
44	181528Z	10.0N 125.8E	VW-R-05-05		---	---	---	---	--/--	CIRC	----	24	--
45	182002Z	10.0N 125.4E	VW-R-02-05		---	---	---	---	--/--	CIRC	----	24	--
46	190300Z	09.6N 124.0E	54-P-03-03	500MB	050	065	---	---	52/58	CIRC	----	15	--
47	190540Z	10.0N 122.5E	SLTLS	STG X	DIA 03	BNDS 2							
48	190820Z	09.2N 122.7E	54-P-05-10	500MB	060	050	---	---	56/56	CIRC	----	05	--

EYE FIXES CYCLONE 30

FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	THKNS WALL CLOUD
49	191508Z	09.6N 122.0E	VW-R-01-10		---	---	---	---	--/--	CIRC	----	40	--
50	192100Z	09.7N 120.6E	VW-R-02-10		---	---	---	---	--/--	CIRC	----	35	--
51	200300Z	09.6N 119.4E	54-P-02-07	500MB	050	070	972	---	06/05	CIRC	----	10	--
52	200635Z	09.0N 118.0E	SLTLS	STG X	DIA 04	BNDS 2							
53	200830Z	09.6N 118.2E	54-P-02-10	500MB	050	050	---	---	55/54	----			--
54	201510Z	10.1N 117.2E	VW-R-01-05	1410M	038	---	---	---	--/--	CIRC	----	40	--
55	202020Z	10.6N 115.9E	VW-R-01-05	700MB	---	---	---	---	--/--	CIRC	----	40	--
56	210215Z	10.7N 115.2E	54-P-03-05	700MB	080	085	976	2880	16/10	CIRC	----	30	--
57	210731Z	12.0N 114.5E	SLTLS	STG X	DIA 05	BNDS 3							
58	210845Z	11.1N 114.4E	54-P-03-03	700MB	080	110	974	2866	16/08	CIRC	----	15	--
59	211330Z	11.2N 114.3E	VW-R----10		---	---	---	---	--/--	----			--
60	211500Z	11.6N 113.9E	VW-R-01-10		---	---	---	---	--/--	CIRC	----	30	--
61	212000Z	11.5N 113.2E	VW-R-01-10		---	---	---	---	--/--	CIRC	----	30	--
62	220310Z	11.4N 112.7E	VW-R-05-03		---	---	---	---	--/--	CIRC	----	12	09
63	220545Z	11.4N 112.2E	VW-R-05-05		---	---	---	---	--/--	CIRC	----	12	09
64	220630Z	11.0N 112.0E	SLTLS	STG X	DIA 04	BNDS 3							
65	220808Z	11.4N 112.1E	VW-R-05-05		---	---	---	---	--/--	CIRC	----	12	--
66	221420Z	11.4N 112.1E	VW-R----10		---	---	---	---	--/--	----			--
67	221500Z	11.4N 112.0E	VW-R-02-10		---	---	---	---	--/--	CIRC	----	30	--
68	222000Z	11.5N 111.7E	VW-R-01-15		---	---	---	---	--/--	CIRC	----	30	--
69	230315Z	11.4N 110.8E	VW-R-05-05		---	045	---	---	--/--	CIRC	----	30	--
70	230725Z	12.0N 110.0E	SLTLS	STG X	DIA 04	BNDS 4							
71	230800Z	11.6N 110.3E	VW-R-05-05		---	035	---	---	--/--	CIRC	----	30	10
72	231450Z	11.4N 109.2E	VW-R-02-02		---	---	---	---	--/--	CIRC	----	22	09

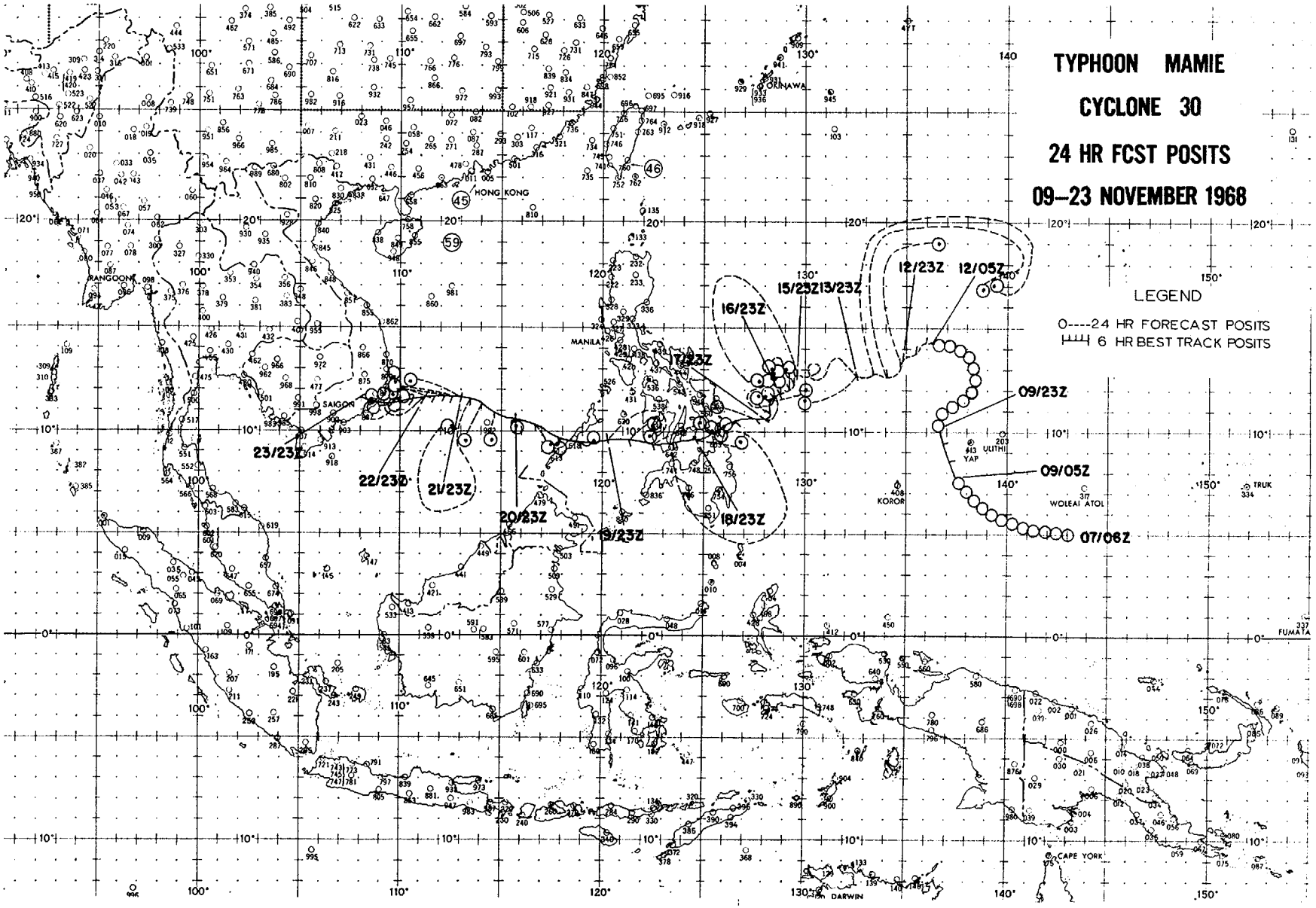
EYE FIXES CYCLONE 30

FIX NO.	TIME	POSIT	UNIT-METHOD -ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TO	EYE FORM	ORIEN-TATION	EYE DIA	THKNS WALL CLOUD
73	232000Z	11.5N 108.4E	VW-R-02-03		---	---	---	---	--/--	CIRC	----	25	--

TROPICAL CYCLONE 30 -- 11/09/0500Z TO 11/23/2300Z
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DIST.	48 HR. ERROR DEG. DIST.	72 HR. ERROR DEG. DIST.
162300Z	11.9N	128.7E	344-0042	--------	--------
170500Z	11.7N	128.4E	000-0066	--------	--------
171100Z	11.2N	128.3E	064-0102	--------	--------
171700Z	10.8N	128.3E	338-0060	--------	--------
172300Z	10.5N	128.0E	000-0078	--------	--------
180500Z	10.7N	127.4E	284-0096	--------	--------
181100Z	10.5N	126.5E	234-0030	--------	--------
181700Z	10.0N	125.6E	270-0006	--------	--------
182300Z	09.8N	124.5E	097-0138	--------	--------
190500Z	09.4N	123.5E	074-0120	327-0096	--------
191100Z	09.4N	122.3E	069-0156	050-0054	--------
191700Z	09.7N	121.3E	071-0066	072-0054	--------
192300Z	09.7N	120.1E	085-0120	097-0282	--------
200500Z	09.5N	118.9E	090-0036	086-0252	015-0072
201100Z	09.8N	117.8E	180-0018	084-0300	--------
201700Z	10.3N	116.7E	134-0066	094-0144	102-0084
202300Z	10.7N	115.7E	170-0036	104-0192	--------
210500Z	11.0N	114.8E	185-0078	154-0096	101-0354
211100Z	11.3N	114.0E	203-0108	193-0108	--------
211700Z	11.4N	113.5E	215-0090	187-0108	116-0156
212300Z	11.5N	113.0E	288-0150	226-0090	--------
220500Z	11.5N	112.6E	285-0156	232-0174	206-0126
221100Z	11.5N	112.1E	280-0132	241-0216	--------
221700Z	11.6N	111.7E	296-0120	256-0162	234-0210
222300Z	11.6N	111.2E	278-0114	284-0288	--------
230500Z	11.5N	110.6E	281-0030	280-0282	251-0294
231100Z	11.4N	109.8E	265-0060	278-0240	--------
231700Z	11.4N	108.8E	090-0054	286-0186	288-0168

AVERAGE 24 HOUR ERROR - 0083 MI.
AVERAGE 48 HOUR ERROR - 0174 MI.
AVERAGE 72 HOUR ERROR - 0183 MI.


TYPHOON MAMIE
CYCLONE 30
24 HR FCST POSITS
09–23 NOVEMBER 1968
LEGEND
O----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
09/23Z
09/05Z
07/06Z
12/23Z
12/05Z
13/23Z
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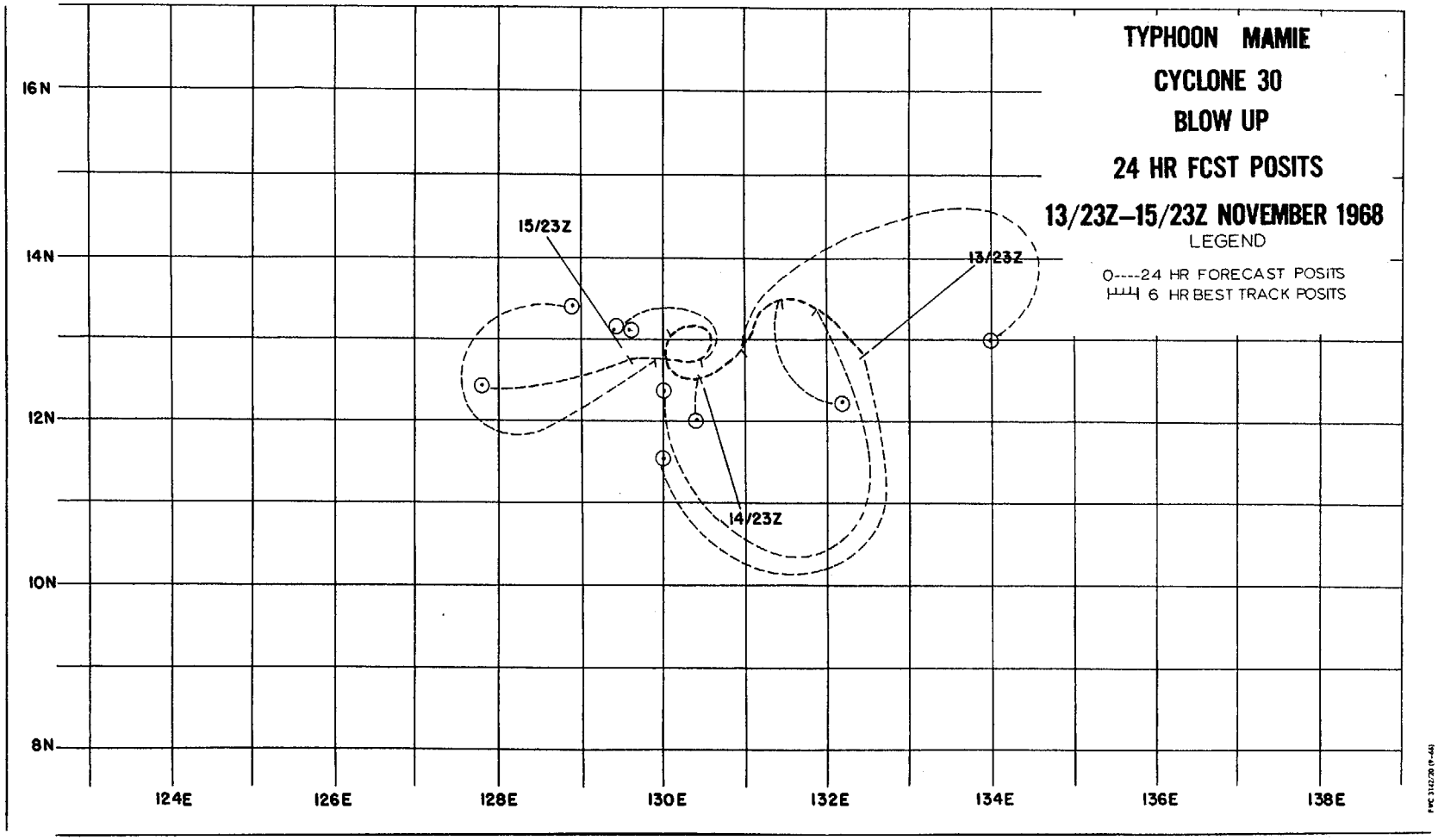
TYPHOON MAMIE
CYCLONE 30
BLOW UP
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