TROPICAL CYCLONE 07 - 07/20/0500Z TO 07/30/1100Z
(MARY)

I. DATA

A. STATISTICS
1. NUMBER OF WARNINGS ISSUED - 42
2. NUMBER OF WARNINGS WITH TYPHOON INTENSITY - 22
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 1932 MI

B. CHARACTERISTICS AS A TYPHOON
1. MINIMUM OBSERVED SLP - 924MBS AT 232100Z
2. MINIMUM OBSERVED 700MB HEIGHT - 2441M. AT 240230Z
3. MAXIMUM SURFACE WIND - 130 KTS (FROM BEST TRACK)
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - 600 MI

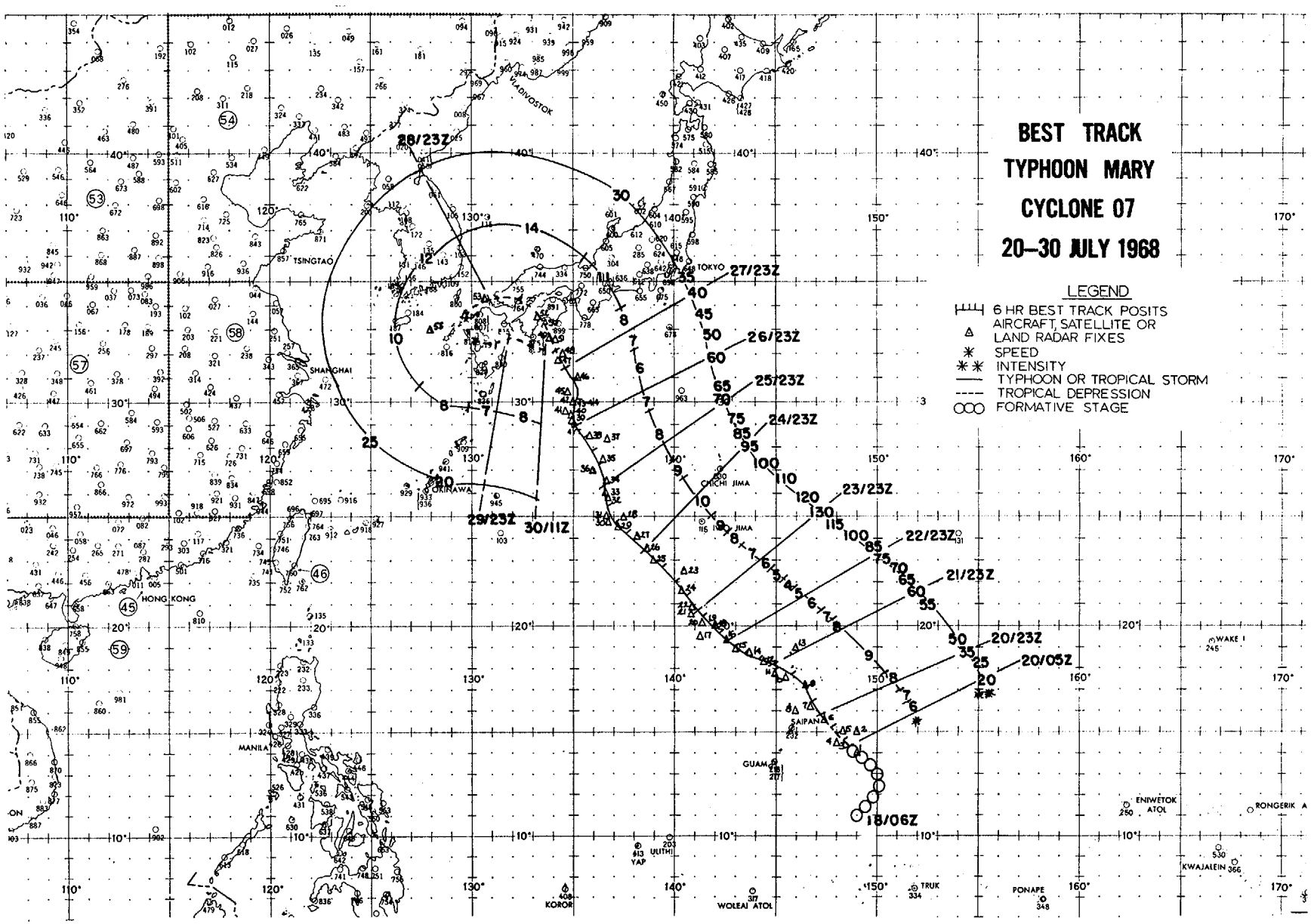
II. DEVELOPMENT

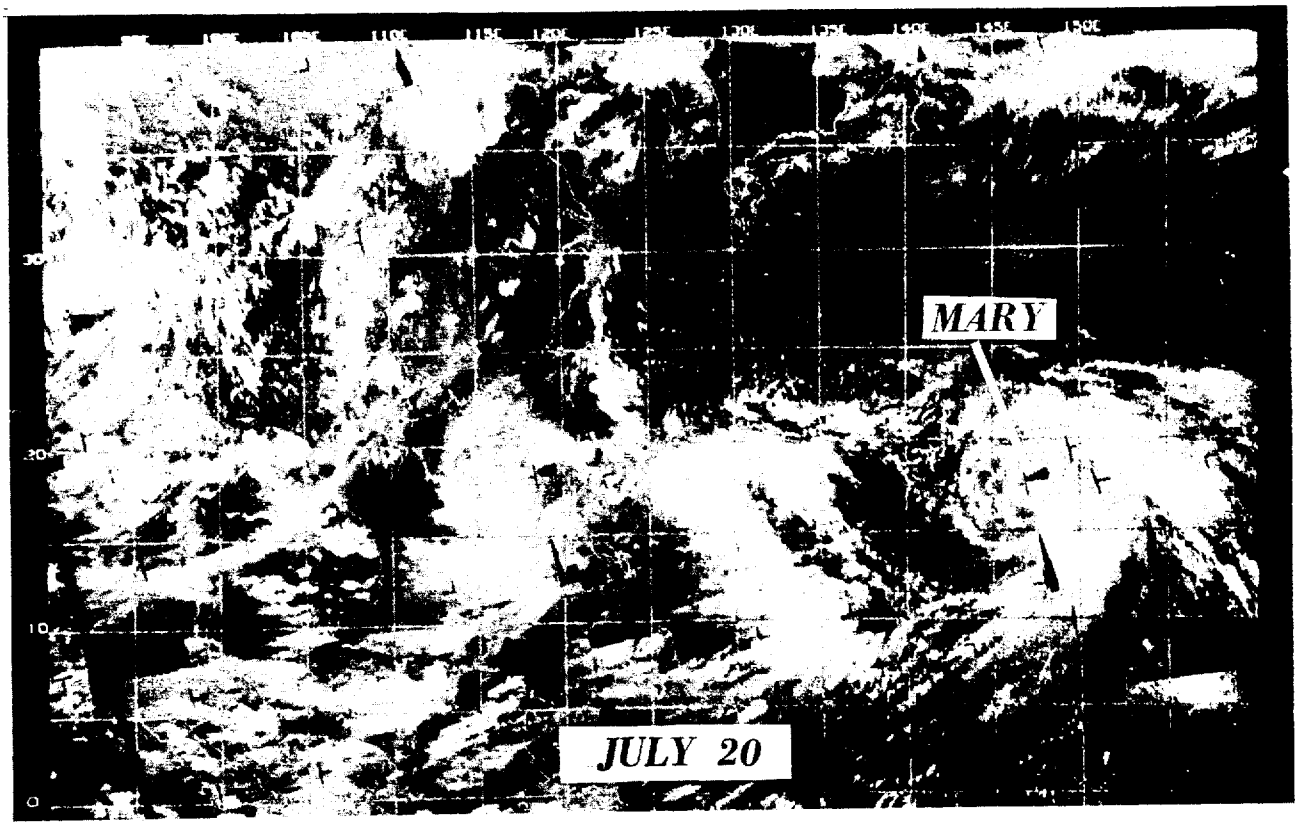
A. INITIAL IMPETUS - DEVELOPMENT OF DIVERGENCE AT 200MB LEVEL OVER SURFACE CYCLONIC CIRCULATION

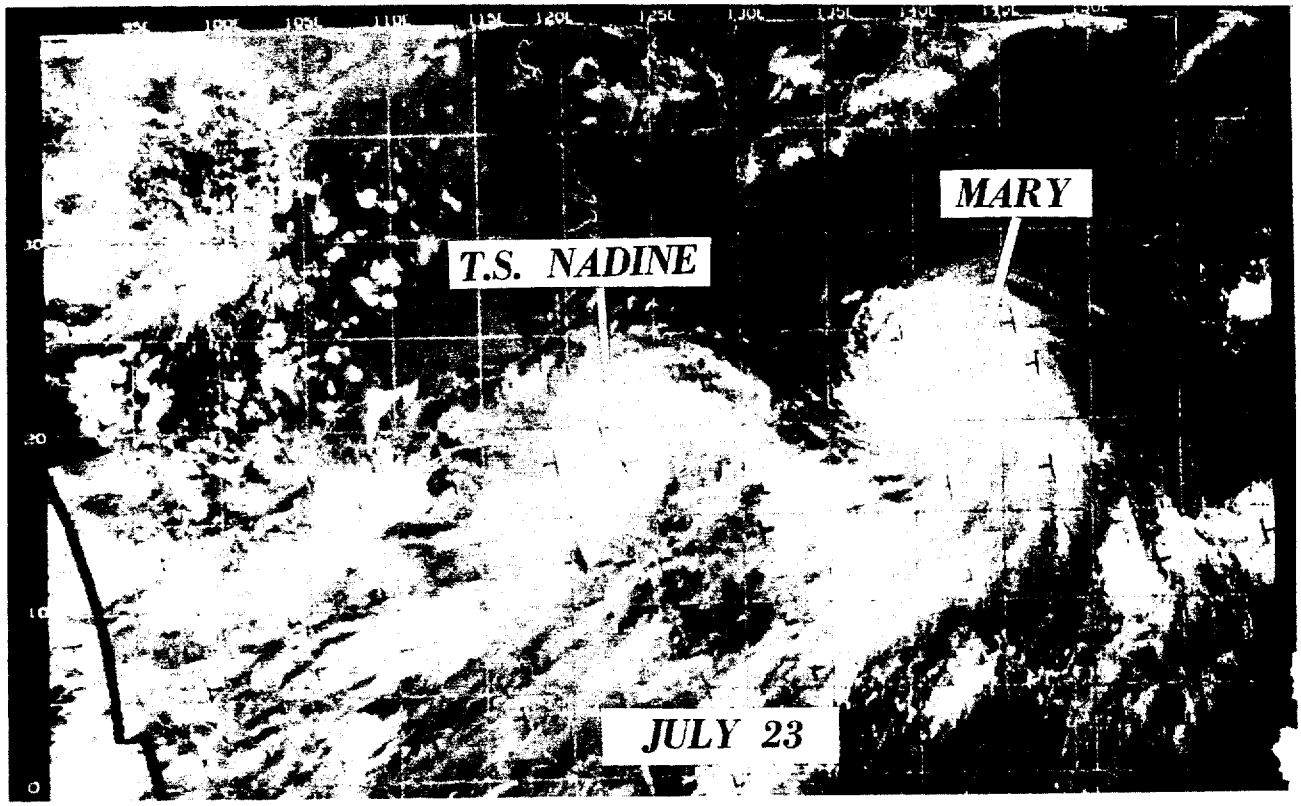
B. INITIAL SURFACE VORTEX
1. JUNCTION VORTEX AT 180600Z
2. SURFACE PRESSURE LESS THAN 1007MB

C. 200MB FLOW ABOVE SURFACE VORTEX
1. INITIAL - SOUTHEAST
2. UPON REACHING TYPHOON INTENSITY - NORTH

III. FINAL DISPOSITION - DISSIPATED OVER WATER


BEST TRACK
TYPHOON MARY
CYCLONE 07
20–30 JULY 1968
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
28/23Z
27/23Z
26/23Z
25/23Z
24/23Z
23/23Z
22/23Z
21/23Z
20/23Z
20/05Z
18/06Z
29/23Z
30/11Z
VLADIVOSTOK
TSINGTAO
SHANGHAI
TOKYO
OKINAWA
CHICHI JIMA
HONG KONG
MANILA
SAIPAN
GUAM
WAKE I
ENIWETOK ATOL
RONGERIK A
KWAJALEIN
PONAPE
TRUK
WOLEAI ATOL
KOROR
ULITHI
YAP


MARY
JULY 20


MARY
T.S. NADINE
JULY 23

EYE FIXES CYCLONE 07

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
1	200110Z	14.0N 149.0E	54-P------	0430M	020	020	002	---	--/--	----			N.F.B.
2	200641Z	15.0N 149.0E	SLTLS	STG X	DIA 02	BNDS 2							
3	200905Z	14.5N 148.0E	VW-P-05-05	0460M	016	020	998	3102	24/25	CIRC	----	--	F.B.
4	201230Z	14.5N 148.0E	VW-R------		---	---	---	---	--/--	----			--
5	201520Z	15.0N 148.2E	VW-P-05-15	700MB	020	---	004	3078	10/09	ELIP	NW-SE	40X28	N.F.B.
6	202130Z	15.6N 147.3E	54-P-03-10	700MB	035	025	994	3030	09/--	ELIP	N-S	40X25	F.B.
7	210255Z	16.1N 146.8E	54-P-10-05	700MB	035	050	986	2987	12/10	ELIP	N-S	30X15	--
8	210718Z	16.0N 146.0E	SLTLS	STG X	DIA 03	BNDS 2							
9	210926Z	17.2N 146.4E	VW-P-03-03	0460M	039	040	985	---	24/23	CIRC	----	18	--
10	211415Z	17.6N 145.6E	VW-R-05-15	0460M	048	---	---	---	--/--	CIRC	----	30	--
11	212105Z	17.8N 145.0E	54-P-03-03	700MB	045	050	983	2926	16/12	ELIP	N-S	40X30	--
12	220241Z	18.2N 144.4E	54-P-03-03	700MB	050	055	976	2887	16/12	CIRC	----	25	--
13	220559Z	19.0N 146.0E	SLTLS	STG X	DIA 04	BNDS -							
14	220835Z	18.8N 143.8E	VW-P-03-03	0450M	085	085	964	2842	26/33	CIRC	----	45	04
15	221440Z	18.9N 143.0E	VW-R-02-03	700MB	---	---	---	---	--/--	CIRC	----	10	06
16	222043Z	19.3N 142.6E	54-P-03-02	700MB	080	080	952	2676	20/15	CIRC	----	10	--
17	230247Z	19.5N 141.2E	54-P-03-05	700MB	060	080	951	2667	17/15	CIRC	----	15	--
18	230638Z	20.0N 142.0E	SLTLS	STG X	DIA 05	BNDS 4							
19	230847Z	20.0N 142.2E	VW-P-05-05		---	090	947	---	26/25	ELIP	NE-SW	20X14	--
20	231130Z	20.0N 125.8E	VW-P-05-10	700MB	---	---	---	3012	15/11	CIRC	----	20	F.B.
21	231430Z	20.2N 141.5E	VW-P-05-05	700MB	065	---	941	2595	18/15	CIRC	----	15	--
22	232100Z	20.7N 140.9E	54-P-01-01	700MB	100	115	924	2445	20/14	CIRC	----	20	08
23	240230Z	20.9N 140.9E	54-P-03-01	700MB	135	130	924	2441	20/14	CIRC	----	10	--
24	240715Z	22.5N 140.5E	SLTLS	STG X	DIA 07	BNDS 4							

EYE FIXES CYCLONE 07

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	240807Z	21.6N 140.4E	VW-R-01-05		---	---	---	---	--/--	CIRC	----	12	--
26	241453Z	23.0N 139.0E	VW-P-10-05	700MB	080	---	950	2560	18/14	CIRC	----	12	--
27	242112Z	23.6N 138.7E	54-P-05-05	700MB	070	040	933	2563	18/12	CONC		70-20	--
28	250230Z	24.1N 138.1E	54-P-05-05	700MB	080	055	946	2624	16/12	CIRC	----	70	--
29	250602Z	25.0N 137.5E	SLTLS	STG X	DIA 07	BNDS 4							
30	250910Z	24.7N 137.2E	VW-P-05-05	0240M	080	065	951	2738	25/24	ELIP	NW-SE	60X45	N.F.B.
31	251200Z	24.8N 136.8E	VW-R-05-10		---	---	---	---	--/--	CIRC	----	70	F.B.
32	251515Z	24.9N 136.7E	VW-R-05-10		---	---	---	---	--/--	ELIP	NE-SW	60X50	F.B.
33	252110Z	25.8N 136.8E	54-P-04-10	700MB	065	---	951	2682	17/12	CIRC	----	30	--
34	252350Z	26.0N 136.6E	54-P-02-05	700MB	050	045	957	2704	16/11	CIRC	----	30	--
35	260210Z	26.5N 136.8E	54-P-03-10	700MB	055	040	958	2713	16/11	CIRC	----	30	--
36	260639Z	27.5N 136.5E	SLTLS	STG X	DIA 05	BNDS 3							
37	260910Z	27.0N 136.0E	VW-P-03-10	0460M	---	065	963	---	26/25	CIRC	----	10	--
38	261230Z	28.4N 136.8E	VW-P-30-15	700MB	---	---	972	2847	16/14	CIRC	----	20	--
39	261415Z	28.5N 135.9E	VW-P-30-20	700MB	---	---	966	2806	17/15	CIRC	----	30	--
40	262101Z	29.2N 135.0E	54-P-03-15	700MB	040	040	966	2810	14/14	CIRC	----	30	F.B.
41	270001Z	29.5N 134.9E	54-P-01-06	700MB	065	---	966	2816	15/13	CIRC	----	30	F.B.
42	270253Z	29.7N 134.7E	54-P-01-15	700MB	040	035	967	2835	15/13	----			F.B.
43	270716Z	30.0N 135.0E	SLTLS	STG X	DIA 04	BNDS 3							
44	270850Z	30.0N 135.0E	VW-P-05-10	0150M	035	035	971	2896	25/24	----			F.B.
45	271210Z	30.1N 135.0E	VW-P-05-10	700MB	045	---	964	2914	15/12	----			--
46	271410Z	30.4N 134.8E	VW-P-05-10	700MB	---	---	---	2911	16/15	----			--
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	065	035	969	2841	16/13	CIRC	----	10	--

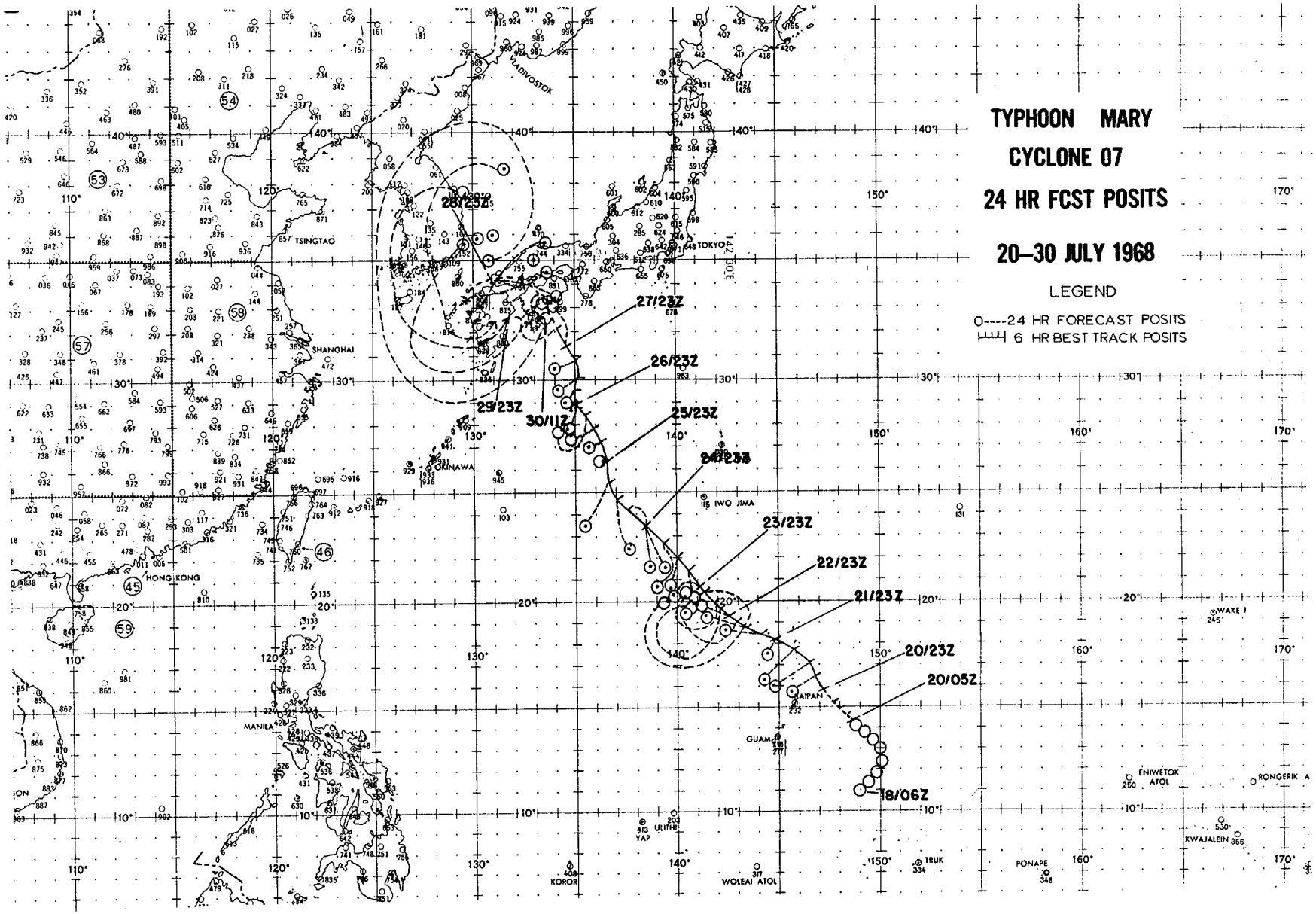
EYE FIXES CYCLONE 07

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	280753Z	32.0N 134.5E	SLTLS	STG X	DIA 04	BNDS 2							
50	280800Z	32.7N 133.9E	LND RDR		---	---	---	---	--/--	----			--
51	281000Z	33.2N 133.6E	LND RDR		---	---	---	---	--/--	----			--
52	281045Z	32.7N 134.1E	VW-P-10-10	700MB	030	---	---	2970	14/13	CIRC	----	25	--
53	281100Z	33.6N 133.2E	LND RDR		---	---	---	---	--/--	----			--
54	281800Z	35.2N 130.7E	LND RDR		---	---	---	---	--/--	----			--
55	290000Z	33.6N 129.8E	LND RDR		---	---	---	---	--/--	----			--
56	290636Z	33.0N 128.0E	SLTLS	STG X	DIA 03	BNDS 1							

TROPICAL CYCLONE 07 -- 07/20/0500Z TO 07/30/1100Z
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.
202300Z	15.7N	147.2E	--------	--------	--------
210500Z	16.4N	146.8E	242-0072	--------	--------
211100Z	17.2N	146.2E	228-0102	--------	--------
211700Z	17.6N	145.5E	221-0108	--------	--------
212300Z	18.1N	144.8E	199-0036	--------	--------
220500Z	18.4N	144.1E	283-0102	--------	--------
221100Z	18.7N	143.5E	284-0114	--------	--------
221700Z	19.0N	143.0E	281-0150	--------	--------
222300Z	19.4N	142.6E	288-0090	263-0048	--------
230500Z	19.8N	142.3E	274-0078	275-0342	--------
231100Z	20.0N	142.0E	273-0090	273-0378	--------
231700Z	20.4N	141.4E	257-0102	275-0402	--------
232300Z	20.8N	141.1E	242-0072	270-0342	--------
240500Z	21.4N	140.6E	254-0288	261-0204	262-0594
241100Z	22.0N	140.0E	255-0294	248-0174	--------
241700Z	22.7N	139.3E	249-0312	234-0210	263-0636
242300Z	23.4N	138.4E	169-0096	198-0156	--------
250500Z	24.1N	137.6E	147-0174	240-0438	240-0312
251100Z	24.8N	137.0E	165-0144	241-0450	--------
251700Z	25.5N	136.8E	214-0138	239-0498	219-0354
252300Z	26.3N	136.5E	270-0006	177-0240	--------
260500Z	27.1N	136.1E	252-0018	177-0288	235-0708
261100Z	27.8N	135.7E	247-0042	190-0318	--------
261700Z	28.4N	135.4E	237-0060	213-0354	224-0822
262300Z	29.0N	135.1E	196-0066	262-0042	--------
270500Z	29.6N	135.0E	214-0042	244-0036	192-0444
271100Z	30.1N	135.1E	238-0054	260-0096	--------
271700Z	30.7N	135.1E	258-0054	244-0120	218-0594
272300Z	31.3N	134.7E	341-0108	223-0114	--------
280500Z	32.1N	134.2E	333-0066	236-0072	254-0060

AVERAGE 24 HOUR ERROR - 0106 MI.
AVERAGE 48 HOUR ERROR - 0241 MI.
AVERAGE 72 HOUR ERROR - 0502 MI.


TYPHOON MARY
CYCLONE 07
24 HR FCST POSITS
20–30 JULY 1968
LEGEND
0----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
VLADIVOSTOK
TSINGTAO
SHANGHAI
TOKYO
OKINAWA
IWO JIMA
HONG KONG
MANILA
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
KWAJALEIN
ENIWETOK ATOL
RONGERIK A
WAKE I
25/23Z
27/23Z
26/23Z
29/23Z
30/11Z
25/23Z
24/23Z
23/23Z
22/23Z
21/23Z
20/23Z
20/05Z
18/06Z