TYPHOON DINAH - 100600Z TO 200000Z JUNE

I. DATA

A. Statistics

1. Number of warnings issued - 37
2. Number of warnings with typhoon intensity - 24
3. Total distance traveled during tropical warning period - 2795 mi

B. Characteristics as a typhoon

1. Minimum observed SLP - 932mbs at 170300Z
2. Minimum observed 700mb height - 2499m. at 170300Z
3. Maximum surface wind - 160 kts (From Best Track)
4. Maximum radius of surface circulation - 525 mi

II. DEVELOPMENT

A. Initial impetus - Surge in S. Hemisphere indraft

B. Initial surface vortex

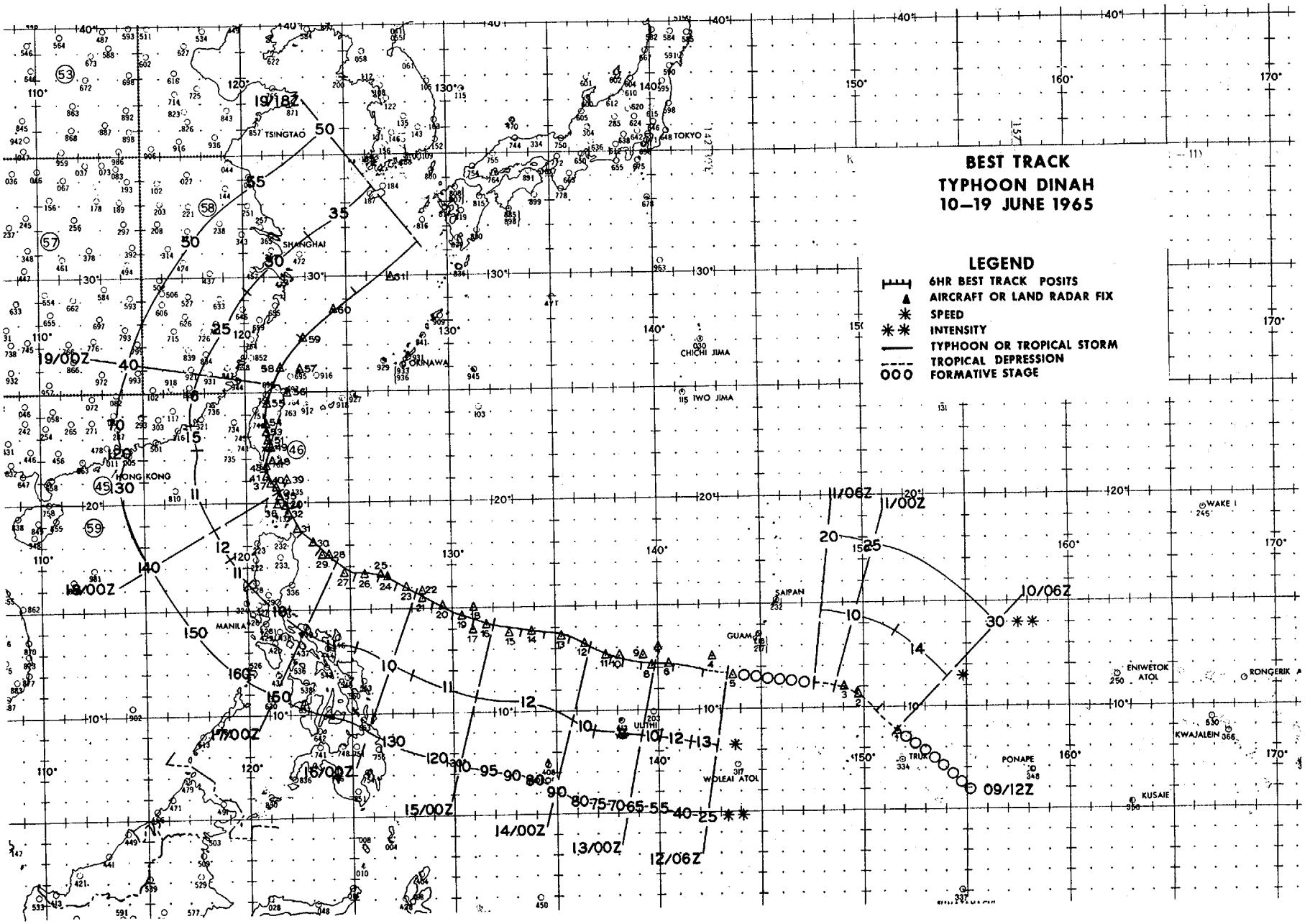
1. Junction vortex at 091200Z
2. Surface pressure less than 1009mbs

C. 200mb flow above surface vortex

1. Initial - easterly
2. Upon reaching typhoon intensity - cyclonic outdraft

III. FINAL DISPOSITION

A. Became extratropical


BEST TRACK
TYPHOON DINAH
10–19 JUNE 1965
LEGEND
6HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
TSINGTAO
SHANGHAI
TOKYO
CHICHI JIMA
IWO JIMA
OKINAWA
HONG KONG
MANILA
SAIPAN
GUAM
ULITHI
WOLEAI ATOL
TRUK
PONAPE
KUSAIE
KWAJALEIN
ENIWETOK ATOL
WAKE I
19/18Z
19/00Z
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
13/00Z
12/06Z
11/06Z
11/00Z
10/06Z
09/12Z

EYE FIXES TYPHOON DINAH

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	REMARKS
1	100556Z	08.9N 151.6E	54-P-UNK	700mb	31	30	1004	3085	15/U	EYE CIRC 15 MI DIA WALL CLD N & NW 12 MI THICK
2	101625Z	10.6N 149.7E	VW1-P-P5	1500ft	--	--	1003	---	22/16	SECOND CNTR AT 09.6N 150.2E MIN SLP 1004
3	110056Z	11.0N 149.0E	TIROS	--	--	--	--	---	--/--	STAGE X, DIA 5, BNDS 1
4	120050Z	12.5N 142.5E	TIROS	--	--	--	--	---	--/--	STAGE D, DIA 5, BNDS 1 SOME CI OUTFLOW
5	120455Z	11.6N 143.6E	VW1-P-UNK	1200ft	--	25	1004	3027	26/19	CNTR OPEN E QUAD
6	122030Z	12.2N 140.4E	56-P-P1	700mb	50	65	1002	3088	10/10	TOP OF WALL CLD 15,000 FT RDR EYE 340 DEG 4 MI FM SFC EYE
7	130037Z	13.0N 140.0E	TIROS	--	--	--	--	---	--/--	STAGE X, DIA 5, BNDS 2 DEF CI OUTFLOW
8	130240Z	12.1N 139.6E	56-P-P1	700mb	50	65	1001	3103	10/06	700MB EYE 240 DEG 10 MI FM SFC EYE
9	130829Z	12.6N 139.2E	VW1-P-P10	700ft	--	65	992	---	24/19	EYE CIRC 14 MI DIA OPEN TO NW
10	131445Z	12.6N 138.1E	VW1-R-P3	700mb	--	--	--	---	--/--	
11	132022Z	12.6N 137.5E	56-P-P2	700mb	30	65	993	3063	14/09	RDR EYE 7 MI NW OF SFC EYE
12	140200Z	13.2N 136.4E	56-P-P2	700mb	50	100	989	3027	20/14	RDR EYE 8 MI FM SFC EYE
13	140853Z	13.6N 135.2E	VW1-P-10	1000ft	--	80	988	---	24/19	EYE ELIP N-S 22 X 17 MI WALL CLD 5 MI THICK

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	REMARKS
14	141415Z	13.9N 133.8E	VW1-R-15	10000ft	--	--	--	---	--/--	EYE ELIP N-S 22 X 17 MI WALL CLD APPEARS BRKN N QUAD
15	142100Z	13.9N 132.6E	56-P-P1	700mb	65	85	--	2819	17/11	SFC CALM CNTR 5 MI DIA
16	150130Z	14.3N 131.7E	56-P-P3	700mb	75	120	--	2707	20/14	CONCENTRIC EYES OUTER 16 MI DIA INNER 8 MI DIA
17	150221Z	14.0N 131.0E	TIROS	--	--	--	--	---	--/--	STAGE X, DIA 5 PLUS, BNDS 3
18	150511Z	15.0N 131.0E	TIROS	--	--	--	--	---	--/--	STAGE X, DIA 5, BNDS 4 EYE VSBL
19	150940Z	14.7N 130.4E	VW1-R-5	1000ft	--	70	--	---	--/--	SOLID WALL CLD EYE CIRC 7 MI DIA
20	151445Z	15.1N 129.6E	VW1-R-10	10500ft	55	--	--	---	--/--	EYE ELIP N-S 20 X 15 MI
21	152120Z	15.6N 128.4E	56-P-P2	700mb	--	130	--	2707	22/17	CONCENTRIC EYES OUTER 30 MI DIA INNER 5 MI DIA
22	160212Z	15.8N 128.4E	TIROS	--	--	--	--	---	--/--	STAGE X, DIA 5, BNDS 4 EYE VSBL
23	160300Z	16.0N 127.6E	56-P-P2	700mb	--	130	--	2661	20/15	EYE CIRC 12 MI DIA
24	160900Z	16.4N 126.8E	VW1-R-10	10000ft	--	--	--	---	--/--	EYE CIRC 10 MI DIA CLSD ALL QUADS
25	161100Z	16.6N 126.5E	VW1-R-UNK	700mb	--	--	--	---	--/--	
26	161455Z	16.6N 125.6E	VW1-R-5	10000ft	--	--	--	---	--/--	EYE CIRC 12 MI DIA CLSD WALL CLD 7 MI THICK
27	162100Z	16.8N 124.7E	56-P-P3	700mb	120	130	937	2548	15/14	EYE ELIP N-S 12 X 8 MI WALL CLD SOLID

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	REMARKS
28	170158Z	17.5N 124.0E	TIROS	--	--	--	--	---	--/--	STAGE X, DIA 5, BNDS 4
29	170300Z	17.5N 123.8E	56-P-P3	700mb	120	200	932	2499	15/15	EYE CIRC 8 MI DIA WALL CLD SOLID 3 MI THICK
30	170900Z	18.1N 123.2E	VW1-R-5	8000ft	--	--	--	---	--/--	EYE DIA 15 MI
31	171445Z	18.7N 122.5E	VW1-R-5	8500ft	--	--	--	---	--/--	EYE CIRC 17 MI DIA WALL CLD BRKN NNW
32	171900Z	19.4N 122.0E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR
33	172025Z	19.6N 121.9E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR
34	172130Z	19.9N 121.8E	56-P-F1	700mb	--	150	943	2579	17/17	EYE CIRC 10 MI DIA
35	172200Z	20.3N 121.6E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR
36	172248Z	20.0N 121.5E	LND RDR	--	--	--	--	---	--/--	LAOAG RDR
37	180000Z	20.5N 121.5E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR
38	180150Z	20.8N 121.4E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR
39	180152Z	21.0N 122.0E	TIROS	--	--	--	--	---	--/--	STAGE X, DIA 5 PLUS, BNDS 3 PLUS
40	180250Z	20.9N 121.2E	56-R-P2	700mb	100+	100	--	---	--/--	ALMOST CONCENTRIC EYE FDR BNDS OUT 60 MI
41	180400Z	21.1N 121.0E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR
42	180417Z	21.2N 121.2E	ACFT RDR	22000ft	--	--	--	---	--/--	
43	180600Z	21.4N 121.0E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR

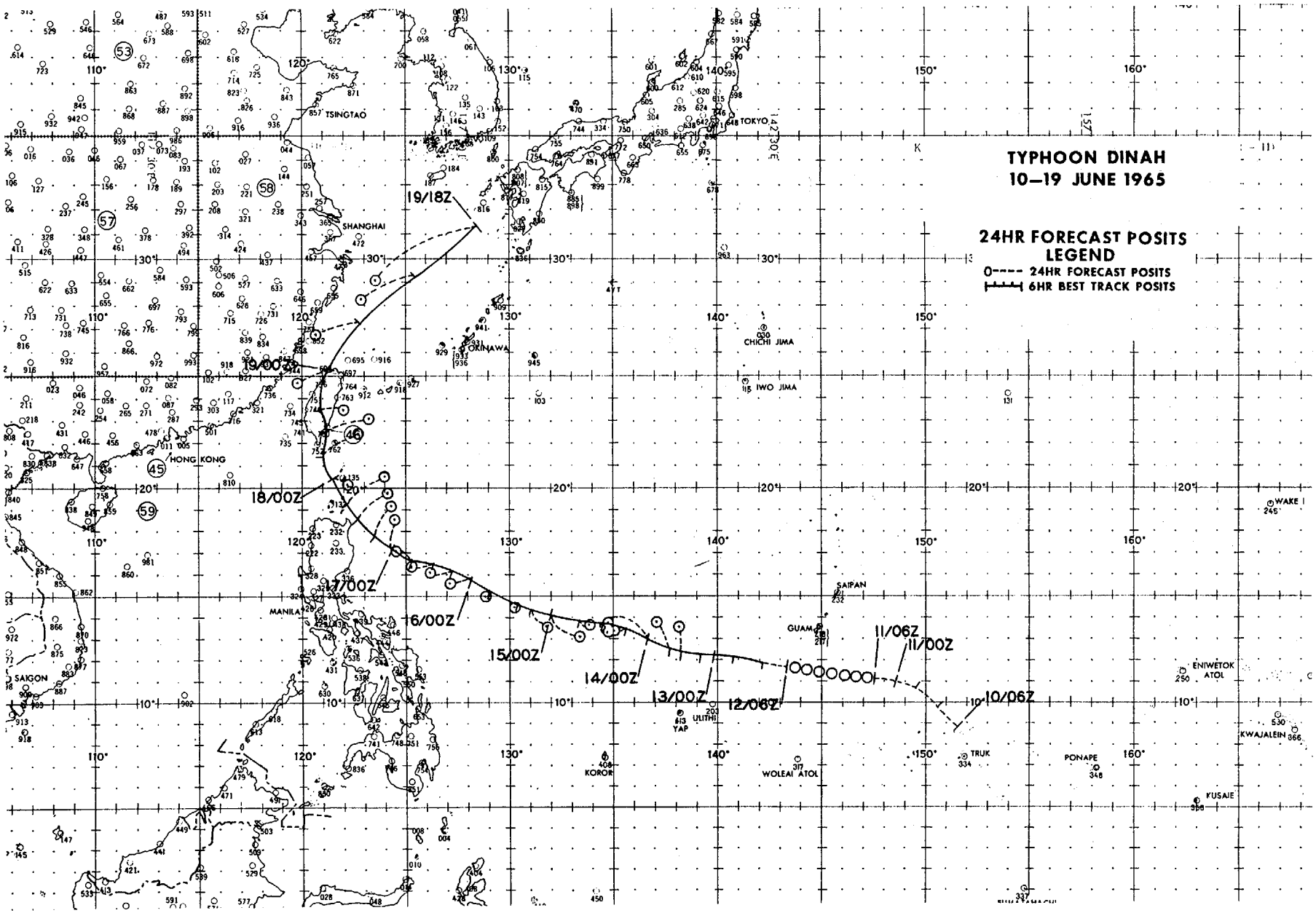
FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	REMARKS
44	180700Z	21.5N 121.1E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR
45	180745Z	21.7N 121.0E	VW1-R-2	10000ft	--	--	--	---	--/--	EYE 8 MI DIA WALL CLDS ALL QUADS THICKNESS 3 MI N, 2 MI E, 3 MI S, 6 MI W
46	180800Z	21.7N 121.1E	LND RDR	--	--	--	--	---	--/--	HIGH CLUB RDR
47	180845Z	21.7N 121.0E	VW1-R-2	10000ft	40	55	--	---	--/--	EYE APPEARED STATIONARY LAST HOUR
48	181000Z	22.0N 121.2E	LND RDR	--	--	--	--	---	--/--	
49	181100Z	22.4N 121.2E	LND RDR	--	--	--	--	---	--/--	SAD POKER RDR
50	181300Z	22.5N 121.2E	LND RDR	--	--	--	--	---	--/--	SAD POKER RDR
51	181454Z	22.8N 121.1E	VW1-R-3	9000ft	--	--	--	---	--/--	EYE ELIP N-S 8 X 6 W SIDE WALL CLC OVER LND
52	181537Z	22.7N 121.1E	LND RDR	--	--	--	--	---	--/--	MIYAKO JIMA RDR
53	181700Z	23.1N 121.1E	LND RDR	--	--	--	--	---	--/--	MIYAKO JIMA RDR
54	181900Z	23.5N 121.0E	LND RDR	--	--	--	--	---	--/--	TAKANGSHAN & WEIPU RDRS EYE DISSIPATED
55	182200Z	24.6N 121.1E	56-P-F2	500mb	25	--	--	---	-05/-07	500MB WND CNTR REPORTED CNTR OVER LND
56	190144Z	25.0N 122.0E	TIROS	--	--	--	--	---	--/--	STAGE X, DIA 3, BNDS 1
57	190200Z	26.0N 122.6E	LND RDR	--	--	--	--	---	--/--	SHIHMEN RDR
58	190206Z	26.1N 121.6E	56-P-P2	700mb	40	45	1001	3075	10/09	SFC WND CNTR REPORTED CLD CNTR AT 26.1N 122.8E AT 190134Z HAD WALL CLD & EYE

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	REMARKS
59	190500Z	27.4N 122.8E	LND RDR	--	--	--	--	---	--/--	
60	190932Z	28.6N 124.4E	VW1-P-5	800ft	--	55	991	---	--/--	PARTIAL WALL CLD 5 MI THICK NE QUAD CNTR ELIP N-S 15 X 8 IN STRATIFORM CLDS
61	191435Z	30.0N 127.1E	VW1-P-15	1500ft	--	50	998	---	22/15	CNTR DIFFUSE

TYPHOON DINAH 10 JUNE-19 JUNE 1965
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
100600Z	08.9N	151.5E	------	------
101200Z	09.8N	150.5E	------	------
101800Z	10.7N	149.5E	------	------
110000Z	11.0N	148.5E	------	------
110600Z	11.2N	147.5E	------	------
120600Z	11.7N	143.4E	------	------
121200Z	11.9N	142.1E	------	------
121800Z	12.2N	140.8E	------	------
130000Z	12.2N	139.9E	------	------
130600Z	12.3N	139.2E	------	------
131200Z	12.4N	138.3E	352-64	------
131800Z	12.5N	137.7E	335-75	------
140000Z	13.0N	136.7E	295-127	------
140600Z	13.5N	135.6E	269-49	------
141200Z	13.8N	134.5E	123-40	------
141800Z	13.9N	133.3E	108-41	------
150000Z	14.2N	132.0E	127-104	317-126
150600Z	14.5N	131.0E	128-67	356-67
151200Z	14.8N	130.0E	138-17	079-50
151800Z	15.3N	129.0E	186-18	068-58
160000Z	15.7N	128.1E	264-50	159-136
160600Z	16.2N	127.2E	267-62	171-120
161200Z	16.5N	126.4E	263-65	245-30
161800Z	16.6N	125.2E	307-50	326-34
170000Z	17.2N	124.3E	012-96	292-95
170600Z	17.8N	123.5E	026-104	294-105
171200Z	18.5N	122.7E	041-117	296-99
171800Z	19.3N	122.1E	056-131	347-74
180000Z	20.4N	121.5E	112-40	048-246
180600Z	21.4N	121.0E	058-120	058-266
181200Z	22.5N	121.2E	070-115	062-287
181800Z	23.7N	121.0E	103-59	070-291
190000Z	25.3N	121.3E	252-85	098-158
190600Z	27.3N	122.8E	258-119	076-195
191200Z	29.2N	125.3E	249-146	103-89
191800Z	31.4N	128.5E	243-295	214-190

AVERAGE 24 HOUR ERROR 87 MI
AVERAGE 48 HOUR ERROR 136 MI


TYPHOON DINAH
10–19 JUNE 1965
24HR FORECAST POSITS
LEGEND
0---- 24HR FORECAST POSITS
6HR BEST TRACK POSITS
19/18Z
19/00Z
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
13/00Z
12/06Z
11/06Z
11/00Z
10/06Z
TSINGTAO
SHANGHAI
ORINAWA
TOKYO
CHICHI JIMA
IWO JIMA
HONG KONG
MANILA
SAIGON
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
KUSAIE
KWAJALEIN
ENIWETOK ATOL
WAKE I
110°
120°
130°
140°
150°
160°
30°
20°
10°