

TYPHOON WINNIE - 260000Z to 030000Z JUNE-JULY

I. DATA

A. Statistics

1. Calendar days of tropical warning -  $6\frac{1}{4}$
2. Calendar days of typhoon intensity -  $4\frac{1}{2}$
3. Total distance traveled during tropical warning period - 1872 mi

B. Characteristics as a typhoon

1. Minimum observed SLP - 950mb, 011005Z
2. Minimum observed 700mb height - 2819m, 302200Z
3. Maximum surface wind - 100 kts
4. Max radius of surface circulation - 475 mi

II. DEVELOPMENT

A. Initial impetus - Fracture of MPT

B. Initial surface vortex

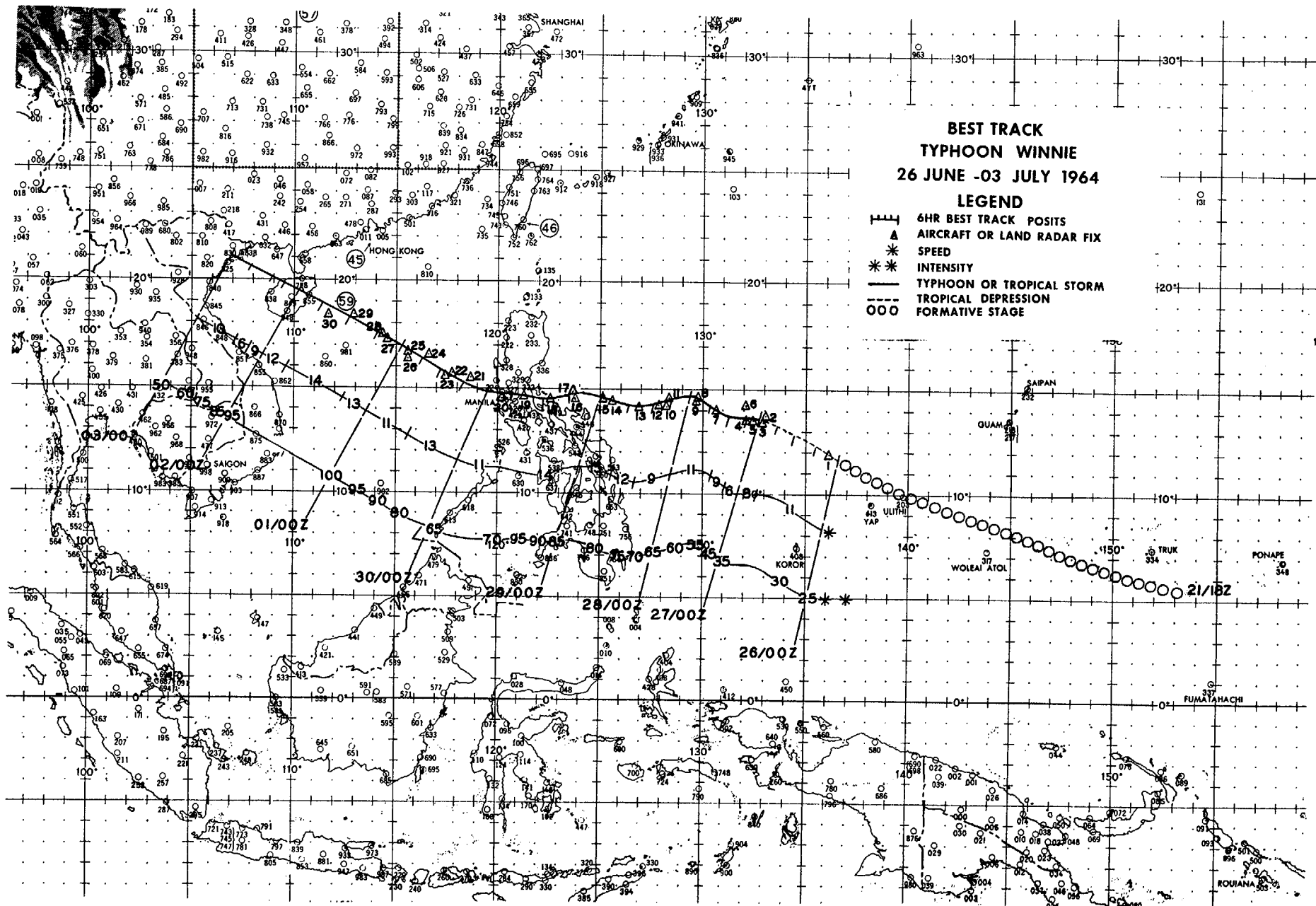
1. Junction vortex at 211800Z
2. Surface pressure less than 1008mb

C. 200mb flow above surface vortex

1. Initial - Divergent S portion of neutral point
2. Upon reaching typhoon intensity - W quad of anticyclone

III. FINAL DISPOSITION

- A. Dissipated over land



EYE FIXES TYPHOON WINNIE

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	260200Z	11.8N 136.3E	VW1-P-3	UNK	--	30	1003	---	--/--	CIRC 15 MI DIA
2	262148Z	13.7N 133.1E	56-P-7	700mb	20	35	994	3036	10/10	CIRC 10 MI DIA
3	262200Z	13.4N 133.0E	54-R-3	30000ft	--	--	---	---	--/--	
4	270400Z	13.4N 132.4E	54-R-5	30000ft	50	--	---	---	-31/--	CIRC 9 MI DIA CLSD
5	270400Z	13.4N 132.6E	56-P-3	690mb	20	30	985	3007	12/12	OVAL NW/SE
6	271006Z	14.1N 132.3E	VW1-P-5	1500ft	--	35	991	---	--/--	OVAL E/W 20X15 MI
7	271550Z	13.9N 130.7E	VW1-R-10	10000ft	--	--	---	3017	11/--	CIRC 20 MI DIA
8	272200Z	14.7N 129.9E	54-R-10	30000ft	35	--	---	---	-28/--	CIRC 10 MI DIA OPEN E
9	272200Z	14.6N 129.9E	56-P-10	700mb	40	65	986	2981	13/10	CIRC 10 MI DIA OPEN E SEMI
10	280350Z	14.1N 128.3E	56-P-10	700mb	35	55	987	2990	12/12	CIRC 30 MI DIA
11	280400Z	14.6N 128.5E	54-R-15	30000ft	25	60	---	---	-28/--	CIRC 20 MI DIA
12	281013Z	14.2N 128.0E	VW1-P-5	1000ft	--	50	981	---	--/--	CIRC 7 MI DIA
13	281510Z	14.1N 127.0E	VW1-R-5	10000ft	--	--	---	---	--/--	CIRC 10 MI DIA
14	282200Z	14.5N 125.7E	56-P-3	675mb	40	80	976	2905	13/11	CIRC 80 MI DIA
15	282208Z	14.6N 125.2E	54-R-10	30000ft	--	--	---	---	--/--	OVAL NNW/SSE 25X20 MI
16	290400Z	14.6N 123.9E	56-P-5	673mb	65	75	972	2856	14/11	CIRC 50 MI DIA
17	290400Z	14.8N 123.8E	54-R-5	30000ft	60	--	---	---	--/--	CIRC 40 MI DIA

88

68

FLX 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
18	291020Z	14.5N 122.6E	VW1-P-3	UNK	--	75	968	---	--/--	CIRC 35 MI DIA
19	291526Z	14.6N 121.5E	VW1-R-5	1000ft	--	--	---	---	--/--	CIRC 30 MI DIA
20	292200Z	14.5N 120.2E	54-R-3	30000ft	30	--	---	---	--/--	CIRC 30 MI DIA OPEN N
21	300400Z	15.4N 118.8E	54-R-0	30000ft	50	--	---	---	-24/--	CIRC 50 MI DIA OPEN NW & W
22	300715Z	15.7N 117.9E	56-P-3	700mb	80	80	971	2841	14/13	CIRC 50 MI DIA ILL DEFINED
23	300958Z	15.6N 117.5E	VW1-P-3	1500ft	--	65	970	---	25/16	CIRC 60 MI DIA
24	301540Z	16.5N 116.7E	VW1-R-10	10000ft	--	--	---	---	--/--	OVAL E/W 60 X 50 MI
25	302200Z	16.7N 115.7E	54-R-U	31000ft	--	100	---	---	-25/--	OVAL 15 X 10 MI
26	302200Z	16.3N 115.7E	56-P-2	674mb	65	85	969	2819	15/13	CIRC 100 MI DIA
27	010310Z	17.2N 114.6E	56-P-3	674mb	65	85	969	2832	14/11	CIRC 70 MI DIA
28	010400Z	17.4N 114.4E	54-R-10	31000ft	40	--	---	---	-23/--	INDEFINITE 30 MI DIA
29	011005Z	18.3N 113.0E	VW1-P-10	1500ft	--	90	950	---	22/--	OVAL 43 MI E/W 47 MI N/S
30	011539Z	18.5N 111.8E	VW1-R-10	5000ft	--	--	---	---	--/--	OVAL NW/SE 45 MI NE/SW 40 MI WALL CLD 20 MI THICK

TYPHOON WINNIE 26 JUN-03 JUL 1964  
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION		24 HOUR ERROR		48 HOUR ERROR	
	LAT.	LONG.	DEG.	DISTANCE	DEG.	DISTANCE
260000Z	11.7N	136.6E	-----		-----	
260600Z	12.2N	135.7E	-----		-----	
261200Z	12.8N	134.7E	-----		-----	
261800Z	13.2N	133.8E	-----		-----	
270000Z	13.5N	132.9E	-----		-----	
270600Z	13.6N	132.3E	-----		-----	
271200Z	13.6N	131.4E	-----		-----	
271800Z	14.2N	130.5E	-----		-----	
280000Z	14.6N	129.5E	322-46		-----	
280600Z	14.5N	128.6E	034-54		-----	
281200Z	14.2N	127.8E	042-118		-----	
281800Z	14.3N	126.5E	041-154		-----	
290000Z	14.7N	125.1E	007-134		009-135	
290600Z	14.7N	123.7E	012-174		045-177	
291200Z	14.5N	122.3E	038-182		051-285	
291800Z	14.7N	120.8E	055-198		056-328	
300000Z	14.7N	119.7E	038-233		029-300	
300600Z	15.2N	118.4E	015-143		032-374	
301200Z	15.8N	117.3E	157-25		045-372	
301800Z	16.3N	116.3E	321-23		055-395	
010000Z	16.9N	115.3E	205-50		054-490	
010600Z	17.5N	114.1E	212-15		020-237	
011200Z	18.3N	112.8E	004-83		192-28	
011800Z	18.8N	111.4E	037-112		322-11	
020000Z	19.4N	110.3E	041-158		188-54	
020600Z	19.8N	109.5E	042-218		044-218	
021200Z	20.1N	109.0E	042-268		035-360	
021800Z	20.5N	108.0E	043-218		042-390	
030000Z	21.0N	107.0E	048-195		048-442	

AVERAGE 24 HOUR ERROR 133 MI  
AVERAGE 48 HOUR ERROR 270 MI

