

TYPHOON BETTY - 020600Z to 061800Z JULY

I. DATA

A. Statistics

1. Calendar days of tropical warning - 4 3/4
2. Calendar days of typhoon intensity - 3 3/4
3. Total distance traveled during tropical warning period - 1086 mi

B. Characteristics as a typhoon

1. Minimum observed SLP - 958mb, 042200Z and 050400Z
2. Minimum observed 700mb height - 2737m, 050400Z
3. Maximum surface wind - 110 kts
4. Max radius of surface circulation - 225 mi

II. DEVELOPMENT

A. Initial impetus - Juxtaposition of Polar Trough with subsequent fracture and increased divergence at 200mb

B. Initial surface vortex

1. Embedded vortex at 010000Z
2. Surface pressure less than 1010mb

C. 200mb flow above surface vortex

1. Initial - SSW quad of anticyclone
2. Upon reaching typhoon intensity - SW quad of anticyclone

III. FINAL DISPOSITION

- A. Dissipated over water

EYE FIXES TYPHOON BETTY

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	020505Z	22.8N 132.1E	VW1-V-U	---	--	40	---	---	--/--	
2	020655Z	22.0N 132.2E	VW1-P-10	1500ft	--	70	990	---	23/--	CIRC 28 MI DIA OPEN E SEMI
3	020920Z	22.1N 132.0E	VW1-P-3	1500ft	--	55	992	---	26/--	CIRC 25 MI DIA OPEN E SEMI
4	021645Z	22.2N 129.1E	VW1-R-10	1500ft	--	--	---	---	--/--	EYE 40 MI DIA OPEN NE QUAD
5	021813Z	22.3N 129.7E	VW1-R-5	10000ft	--	--	---	---	--/--	EYE 40 MI DIA OPEN NE
6	022200Z	22.3N 129.2E	56-P-5	700mb	79	60	986	2994	15/10	CIRC 3 MI DIA CLSD
7	022215Z	22.4N 129.3E	54-R-5	30000ft	--	50	---	---	--/--	OVAL CLSD WALL CLD 3 TO 4 MI THICK
8	030000Z	22.4N 128.9E	56-P-10	700mb	70	85	990	2999	19/10	ELLIP 20 MI NE/SW CLSD
9	030400Z	22.9N 128.5E	56-P-4	701mb	60	100	986	2975	18/11	CIRC 25 MI DIA OPEN E
10	030405Z	22.8N 128.4E	54-R-10	30000ft	--	--	---	---	--/--	CIRC 20 MI DIA CLSD
11	031050Z	23.3N 127.1E	VW1-P-5	10000ft	--	75	970	2941	15/6	CIRC 20 MI DIA CLSD WALL CLDS 12 MI THICK
12	031546Z	23.7N 126.5E	VW1-R-3	9000ft	--	--	---	---	--/--	ELLIP 25 MI N/S 20 MI E/W CLSD WALL CLDS 8 MI THICK
13	032200Z	24.2N 125.7E	56-P-3	700mb	70	80	977	2926	15/9	ELLIP 30 MI N/S 20 MI E/W OPEN N
14	032240Z	24.2N 125.8E	54-R-3	31000ft	--	--	---	---	--/--	CIRC 15 MI DIA CLSD

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
15	040310Z	24.6N 125.2E	56-P-½	700mb	55	60	970	2835	17/11	CIRC 17 MI DIA WEAK WALL CLDS NW
16	040430Z	25.0N 125.0E	54-R-15	31000ft	--	--	---	---	--/--	CIRC 20 MI DIA OPEN NE
17	040915Z	25.0N 124.1E	VW1-P-5	1500ft	--	95	961	---	26/22	CIRC 20 MI DIA CLSD WALL CLDS 4 MI THICK
18	041530Z	25.5N 124.3E	VW1-R-5	2500ft	--	--	---	---	--/--	CIRC 23 MI DIA CLSD WALL CLDS 4 MI THICK
19	042155Z	26.5N 124.0E	54-R-0	30000ft	CALM	--	---	---	-23/--	CIRC 25 MI DIA CLSD WALL CLDS 3 MI THICK
20	042200Z	26.3N 124.0E	56-P-5	700mb	75	90	958	2746	20/11	EYE 20 MI DIA CLSD WALL CLDS 3 MI THICK
21	050100Z	26.4N 123.9E	56-R-U	700mb	--	--	---	---	--/--	
22	050400Z	26.8N 123.7E	56-P-3	700mb	95	110	958	2737	20/13	CIRC 20 MI DIA CLSD
23	050400Z	26.9N 123.6E	54-R-5	35000ft	CALM	--	---	---	-37/--	CIRC 20 MI DIA CLSD WALL CLD TOPS 37000FT
24	050945Z	27.5N 123.3E	VW1-R-3	10000ft	--	--	---	---	--/--	CIRC 21 MI DIA CLSD WALL CLDS 8 MI THICK
25	051533Z	28.1N 122.4E	VW1-R-3	5000ft	--	--	---	---	--/--	CIRC 30 MI DIA APPEARS TO BE WEAKENING WEST SEMI
26	052156Z	28.7N 123.0E	54-R-5	31000ft	--	--	---	---	--/--	CIRC 35 MI DIA
27	052325Z	29.2N 122.6E	56-R-15	689mb	--	--	---	---	--/--	
28	060345Z	29.9N 122.9E	56-R-15	674mb	--	--	---	---	--/--	

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
29	060515Z	29.8N 123.3E	54-R-10	30000ft	--	--	---	---	--/--	EYE DIA 25 MI
30	061000Z	31.8N 123.4E	VW1-R-10	1500ft	--	--	---	---	--/--	CIRC 35 MI DIA OPEN W NO FEEDER BANDS
31	061106Z	31.9N 123.5E	VW1-P-5	1500ft	--	55	995	---	--/--	EYE OPEN W SEMI WALL CLDS 8 MI THICK
32	061535Z	33.5N 124.4E	VW1-R-15	1500ft	--	--	---	---	--/--	NO RADAR EYE

TYPHOON BETTY 02 JUL-06 JUL 1964
 POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION		24 HOUR ERROR		48 HOUR ERROR	
	LAT.	LONG.	DEG.	DISTANCE	DEG.	DISTANCE
020600Z	22.0N	132.5E	-----		-----	
021200Z	22.2N	131.0E	-----		-----	
021800Z	22.2N	129.8E	-----		-----	
030000Z	22.5N	128.9E	-----		-----	
030600Z	22.9N	128.1E	316-174		-----	
031200Z	23.3N	127.0E	323-86		-----	
031800Z	23.8N	126.2E	295-170		-----	
040000Z	24.3N	125.5E	287-38		-----	
040600Z	24.7N	125.0E	250-48		294-286	
041200Z	25.2N	124.6E	247-83		291-199	
041800Z	25.8N	124.2E	247-126		306-300	
050000Z	26.4N	123.7E	243-156		280-135	
050600Z	27.0N	123.4E	236-195		241-210	
051200Z	27.8N	123.0E	232-206		236-263	
051800Z	28.6N	122.8E	220-184		236-336	
060000Z	29.3N	122.8E	059-169		235-386	
060600Z	30.5N	123.0E	088-121		233-465	
061200Z	32.4N	123.7E	145-113		231-535	
061800Z	34.1N	125.3E	-----		-----	

AVERAGE 24 HOUR ERROR 134 MI
 AVERAGE 48 HOUR ERROR 312 MI

