TYPHOON RUBY - 010600Z to 051800Z SEPTEMBER

I. DATA

A. Statistics

1. Calendar days of tropical warning - 4½
2. Calendar days of typhoon intensity - 3¼
3. Total distance traveled during tropical warning period - 1254 mi

B. Characteristics as a typhoon

1. Minimum observed SLP - 963mb, 041000Z and 042230Z
2. Minimum observed 700mb height - 2804m, 042230Z
3. Maximum surface wind - 120 kts
4. Max radius of surface circulation - 400 mi

II. DEVELOPMENT

A. Initial impetus - Superposition of polar trough with easterly wave and subsequent fracture

B. Initial surface vortex

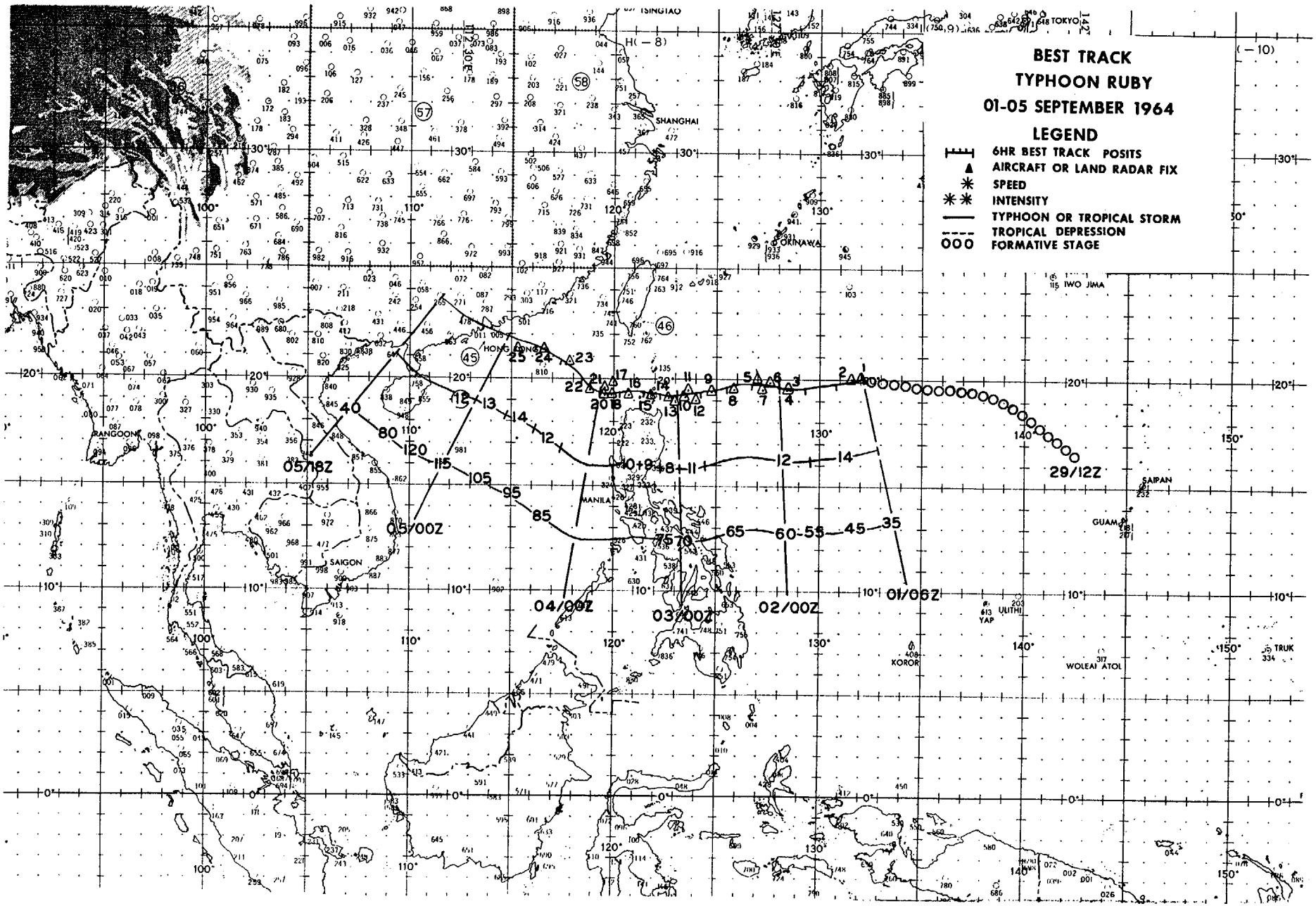
1. Embedded vortex at 291200Z
2. Surface pressure less than 1008mb

C. 200mb flow above surface vortex

1. Initial - SW quadrant of anticyclone
2. Upon reaching typhoon intensity - SE quadrant of anticyclone

III. FINAL DISPOSITION

A. Dissipated over land


BEST TRACK
TYPHOON RUBY
01-05 SEPTEMBER 1964
LEGEND
6HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
TSINGTAO
TOKYO
SHANGHAI
ORINAWA
IWO JIMA
HONG KONG
RANGOON
MANILA
SAIGON
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
05/18Z
05/00Z
04/00Z
03/00Z
02/00Z
01/06Z
29/12Z

EYE FIXES TYPHOON RUBY

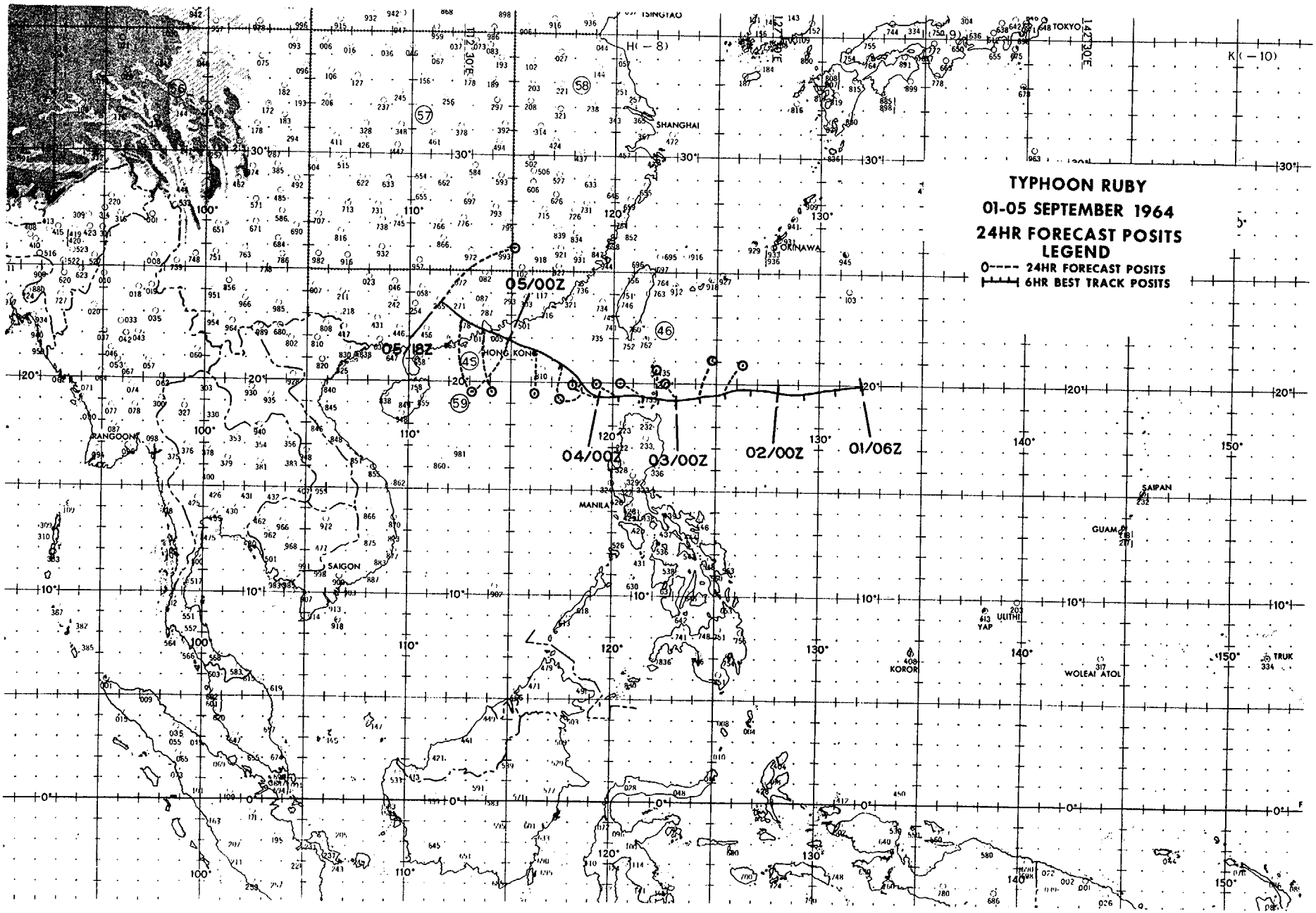
FIX NO.	TIME	POSIT	UNIT-METHOD -ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	REMARKS
1	310013Z	20.0N 137.0E	TIROS	---	--	--	---	---	--/--	BANDING NE & SW QUADS
2	010833Z	20.0N 131.6E	VW1-P-5	1200ft	--	50	998	---	24/19	CIRC 20 MI DIA OPEN N WALL CLDS 6 MI THICK
3	012200Z	19.5N 128.5E	56-P-10	700mb	55	55	991	3038	14/10	CIRC 20 MI DIA
4	012200Z	19.5N 128.3E	54-R-5	30000ft	--	70	---	---	--/--	CIRC 7 MI DIA OPEN NW
5	012319Z	20.0N 127.0E	TIROS	---	--	--	---	---	--/--	STORM ON EDGE OF PICTURE
6	020300Z	19.8N 127.6E	56-P-5	700mb	55	50	991	3008	15/10	CIRC 20 MI DIA OPEN NW
7	020410Z	19.6N 127.2E	54-R-5	30000ft	--	50	---	---	--/--	CIRC 15 MI DIA WALL CLD S QUAD 3-5 MI THICK
8	021000Z	19.6N 125.8E	VW1-P-5	800ft	--	65	986	---	26/21	CIRC 20 MI DIA
9	021600Z	19.4N 124.7E	VW1-R-10	4000ft	--	--	---	---	--/--	CIRC EYE OPEN NW SEMI WALL CLD 7 MI THICK
10	022210Z	19.2N 123.4E	56-P-2	700mb	55	55	980	2935	17/16	ILL DEFINED OPEN NW
11	022130Z	19.5N 123.6E	54-R-10	30000ft	--	50	---	---	--/--	OVAL 30 MI N-S 15 MI E-W OPEN SE
12	022337Z	19.0N 124.0E	TIROS	---	--	--	---	---	--/--	NO EYE VSBL
13	030330Z	18.9N 123.0E	54-R-3	31000ft	--	75	---	---	--/--	OVAL 30 X 20 MI
14	030300Z	19.1N 122.7E	56-P-1	691mb	60	85	981	2911	17/17	NO WELL DEFINED EYE OPEN W SEMI

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	030954Z	19.3N 121.8E	VW1-R-1	1100ft	--	--	---	---	--/--	CIRC 10 MI DIA
16	031545Z	19.3N 120.7E	VW1-R-1	11000ft	--	--	---	---	--/--	OVAL 20 MI NE/SW 14 MI NW/SE LGT WALL CLDS ALL QUADS 4 MI THICK
17	031730Z	19.8N 120.0E	SHIP RADAR	---	--	--	---	---	--/--	
18	031750Z	19.3N 119.9E	LAND RADAR	---	--	--	---	---	--/--	
19	032000Z	19.6N 119.5E	SHIP RADAR	---	--	--	---	---	--/--	
20	032205Z	19.3N 119.5E	56-P-3	699mb	60	70	979	2923	14/13	CIRC 40 MI DIA OPEN NW
21	040005Z	19.5N 119.5E	TIROS	---	--	--	---	---	--/--	EYE VSBL
22	040300Z	19.5N 118.8E	56-P-3	700mb	55	65	979	2926	14/13	CIRC 45 MI DIA OPEN W WALL CLD 8 MI THICK
23	041000Z	20.7N 117.8E	VW1-P-3	800ft	--	95	963	---	26/19	OVAL 18 MI N/S 22 MI E/W
24	041600Z	21.3N 116.6E	VW1-R-10	4500ft	--	--	---	---	--/--	CIRC 20 MI DIA THIN BRKN WALL CLDS ALL QUADS
25	042230Z	21.3N 115.3E	56-P-5	700mb	70	65	963	2804	15/13	ELLIP 24 MI E/W 14 MI N/S WALL CLD 5 MI THICK ALL QUADS

TYPHOON RUBY 01 SEPT-05 SEPT 1964
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
010600Z	19.9N	132.2E	------	------
011200Z	19.8N	130.8E	------	------
011800Z	19.6N	129.3E	------	------
020000Z	19.6N	128.0E	------	------
020600Z	19.7N	126.7E	------	------
021200Z	19.6N	125.4E	033-88	------
021800Z	19.4N	124.2E	017-107	------
030000Z	19.2N	123.1E	327-62	------
030600Z	19.3N	122.3E	354-86	------
031200Z	19.4N	121.4E	304-74	348-150
031800Z	19.4N	120.3E	299-73	342-165
040000Z	19.4N	119.3E	293-77	309-142
040600Z	20.0N	118.4E	229-74	332-130
041200Z	20.8N	117.5E	186-92	274-139
041800Z	21.4N	116.2E	178-120	266-128
050000Z	21.9N	114.9E	215-174	258-118
050600Z	22.3N	113.7E	172-167	205-183
051200Z	22.8N	112.6E	170-200	184-187
051800Z	23.6N	111.6E	053-242	186-230

AVERAGE 24 HOUR ERROR 117 MI
AVERAGE 48 HOUR ERROR 157 MI


TYPHOON RUBY
01-05 SEPTEMBER 1964
24HR FORECAST POSITS
LEGEND
24HR FORECAST POSITS
6HR BEST TRACK POSITS
05/00Z
05/18Z
04/00Z
03/00Z
02/00Z
01/06Z
HONG KONG
SHANGHAI
TSINGTAO
TOKYO
OKINAWA
MANILA
SAIGON
RANGOON
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
H(-8)
K(-10)