TROPICAL CYCLONE 27 - 09/06/0600Z TO 09/13/1800Z

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 31
2. NUMBER OF WARNINGS WITH TYPHOON INTENSITY - 14
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 1674 MI

B. CHARACTERISTICS AS A TYPHOON

1. MINIMUM OBSERVED SLP - 939MBS AT 120300Z
2. MINIMUM OBSERVED 700MB HEIGHT - 2566M. AT 120300Z
3. MAXIMUM SURFACE WIND - 110 KTS (FROM BEST TRACK)
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - 350 MI

II. DEVELOPMENT

A. INITIAL IMPETUS - A COLD CORE LOW BECOMING WARM CORE AFTER DEVELOPMENT OF DIVERGENCE AT 200MB

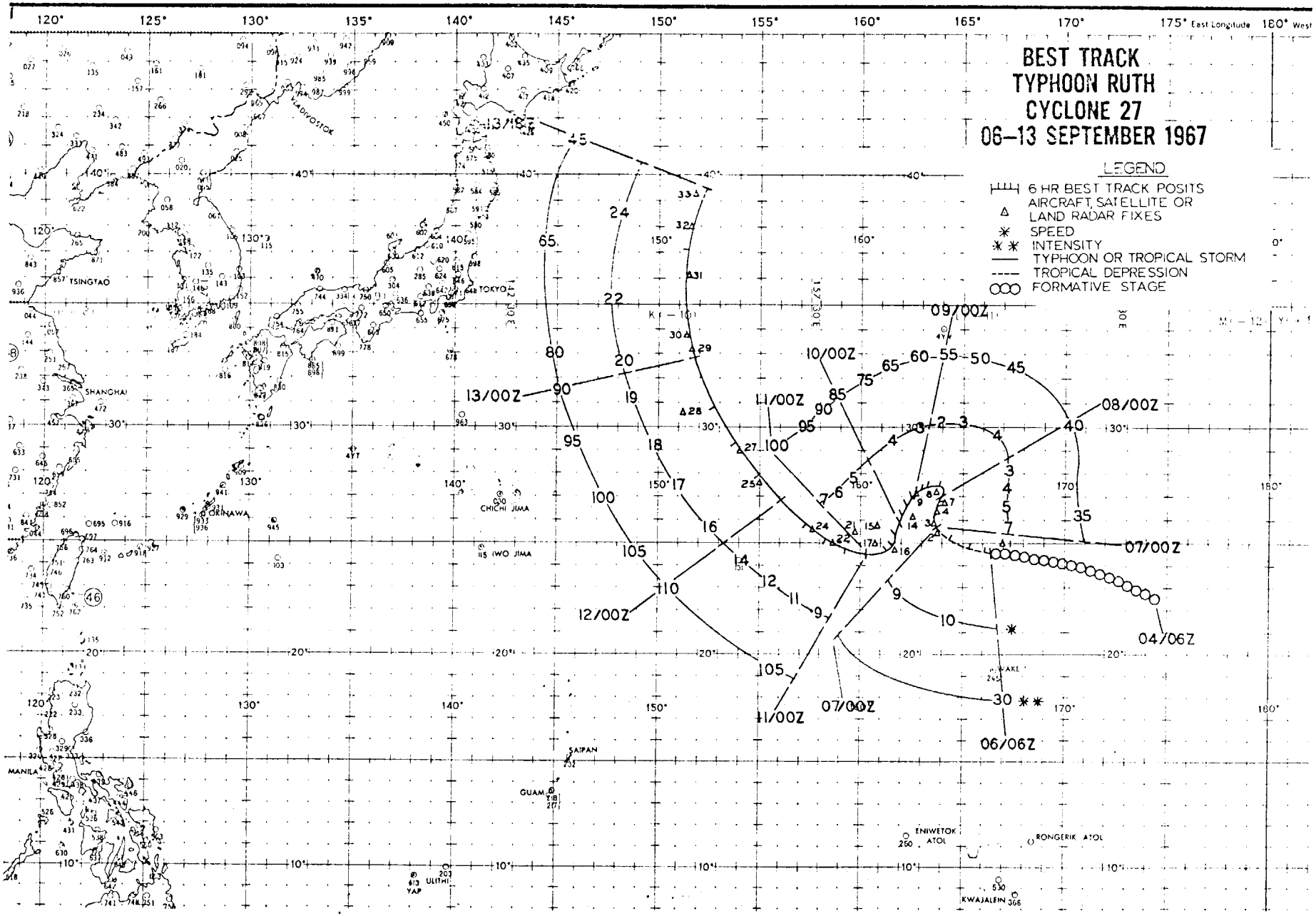
B. INITIAL SURFACE VORTEX

1. COLD VORTEX AT 040600
2. SURFACE PRESSURE LESS THAN 1010MB

C. 200MB FLOW ABOVE SURFACE VORTEX

1. INITIAL - SOUTH
2. UPON REACHING TYPHOON INTENSITY - NORTHWEST

III. FINAL DISPOSITION - BECAME EXTRATROPICAL


BEST TRACK
TYPHOON RUTH
CYCLONE 27
06–13 SEPTEMBER 1967
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
175° East Longitude
180° West
VLADIVOSTOK
TSINGTAO
TOKYO
SHANGHAI
OKINAWA
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
MANILA
ULITHI
YAP
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
WAKE
13/18Z
13/00Z
12/00Z
11/00Z
10/00Z
09/00Z
08/00Z
07/00Z
06/06Z
04/06Z

EYE FIXES CYCLONE 27

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
1	062222Z	25.5N 163.8E	54-P-P08	0300M	043	035	999	---	--/--	CIRC	----	20	--
2	070124Z	25.5N 163.0E	SLTLS	STG C	DIA -- BNDS -								
3	070211Z	25.9N 163.6E	54-P-P10	0300M	043	040	995	---	--/--	CIRC	----	05	--
4	070905Z	26.4N 163.8E	VW-P-P05	0290M	020	035	995	---	--/--	CIRC	----	15	04
5	071532Z	26.4N 163.6E	VW-P-P05	0310M	028	030	995	---	--/--	CIRC	----	40	--
6	072100Z	26.7N 164.0E	54-P-P10	0330M	033	035	996	---	--/--	----			F.B.
7	080305Z	27.2N 163.7E	54-P-P05	0310M	038	035	994	---	--/--	CIRC	----	12	--
8	080958Z	27.1N 163.4E	VW-P-P05	700MB	022	---	---	3021	15/--	CIRC	----	20	--
9	082127Z	27.0N 163.0E	54-P-P05	0350M	038	045	992	---	--/--	CIRC	----	06	--
10	090300Z	27.1N 162.8E	54-P-P10	0450M	050	050	988	---	--/--	CIRC	----	08	--
11	091000Z	26.6N 162.6E	VW-R-P20		---	---	---	---	--/--	----			--
12	091110Z	26.7N 162.2E	VW-P-P05	700MB	038	---	980	2941	18/--	CIRC	----	12	--
13	091525Z	26.1N 162.6E	VW-R-P15	700MB	040	---	---	3040	13/--	CIRC	----	08	09
14	100214Z	25.2N 162.0E	SLTLS	STG X	DIA 03 BNDS 3								
15	100330Z	25.7N 161.9E	54-P-P10	700MB	---	065	962	2755	15/--	CONC		12-06	--
16	100900Z	24.8N 161.8E	VW-R-P30		---	---	---	---	--/--	----			--
17	101300Z	25.0N 161.7E	VW-R-P--	700MB	---	---	---	---	--/--	----			--
18	101515Z	24.8N 161.8E	VW-P-P05	700MB	068	---	990	2750	17/--	CIRC	----	18	06
19	110300Z	24.9N 160.0E	54-P-P10	700MB	075	075	963	2710	14/--	CIRC	----	20	--
20	110304Z	25.5N 159.8E	SLTLS	STG X	DIA 03 BNDS 4								
21	110900Z	25.0N 158.8E	VW-R-F25		---	---	---	---	--/--	----			--
22	111547Z	25.6N 157.6E	VW-R-P02	700MB	050	---	---	3048	--/--	CIRC	----	15	08
23	112200Z	26.4N 156.3E	54-P-P05	700MB	110	110	945	2603	16/--	CIRC	----	20	--
24	120300Z	27.6N 155.0E	54-P-P10	700MB	115	120	939	2566	19/--	CIRC	----	18	--

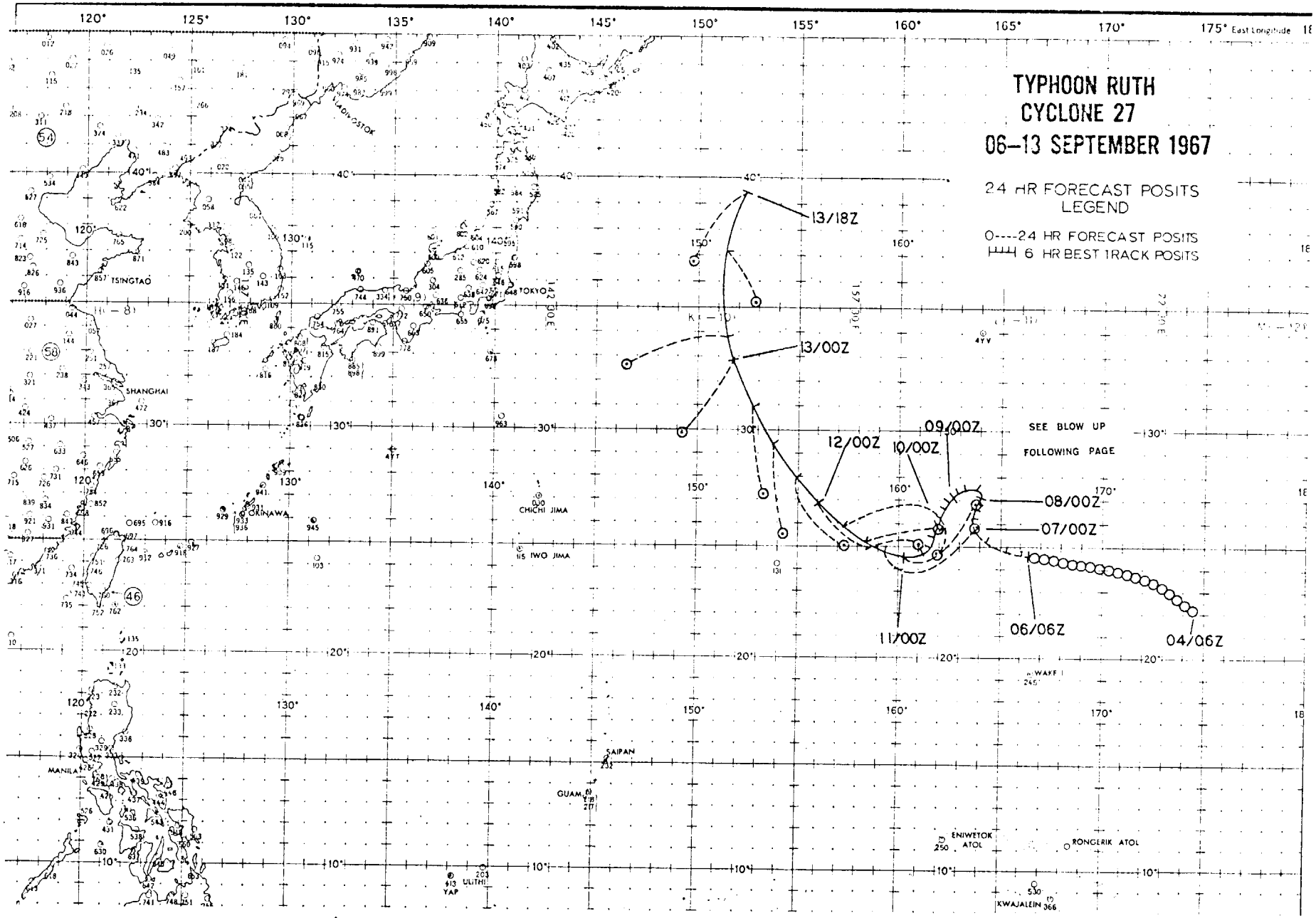
EYE FIXES CYCLONE 27

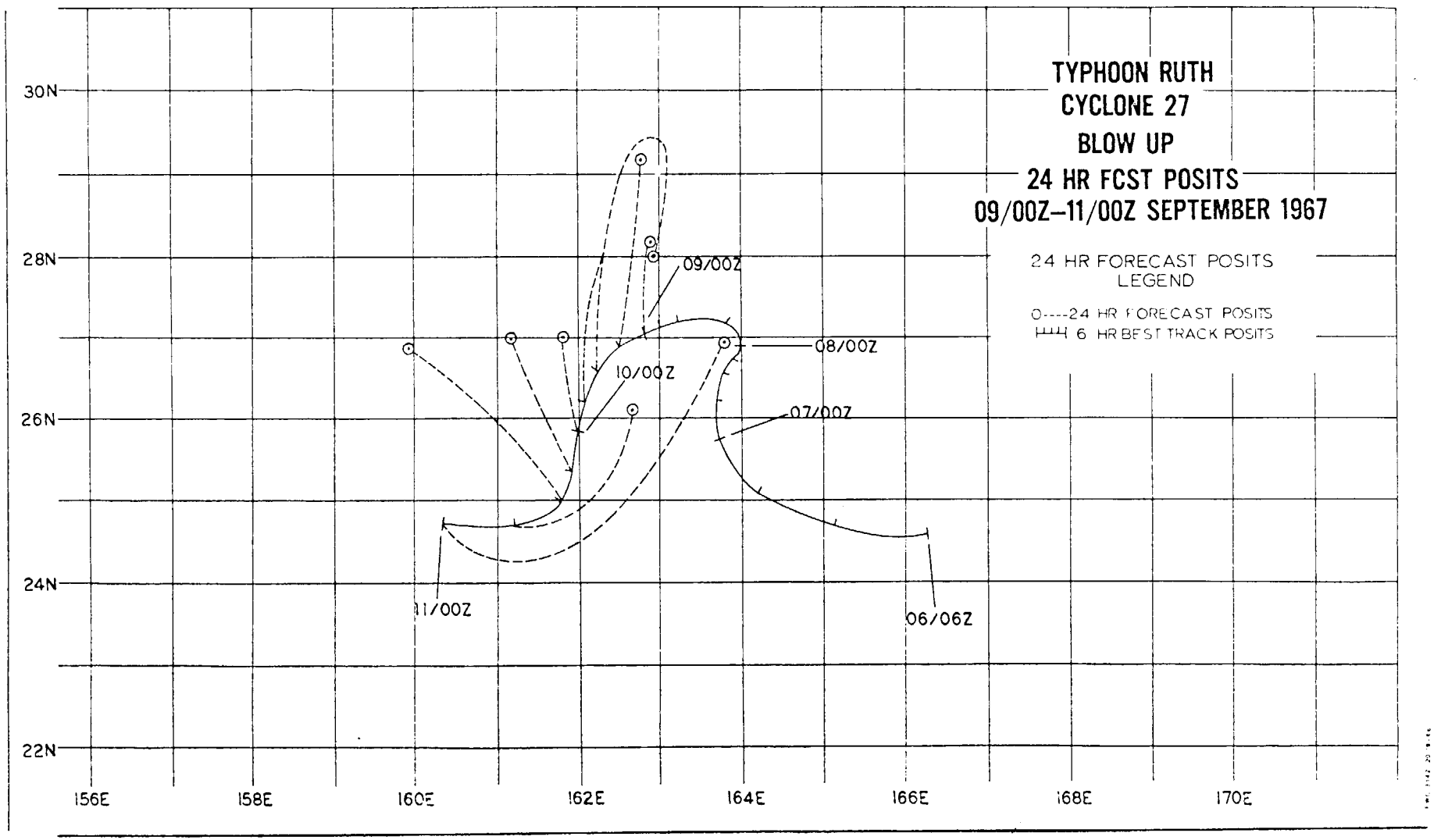
FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	THKNS WALL CLOUD
25	120500Z	28.0N 154.5E	SLTLS	STG X	DIA 04	BNDS 4							
26	121000Z	29.0N 154.0E	VW-R-P03	0400M	---	---	---	---	--/--	CIRC	----	14	05
27	121610Z	30.5N 151.1E	VW-R-P25	700MB	---	---	---	3112	--/--	CIRC	----	22	--
28	130155Z	33.2N 151.6E	54-P-P02	700MB	080	100	964	2771	19/--	CIRC	----	20	--
29	130250Z	33.0N 151.5E	SLTLS	STG X	DIA 03	BNDS 4							
30	130355Z	33.9N 151.4E	54-P-P02	700MB	085	100	962	2743	18/--	CIRC	----	30	--
31	131000Z	36.1N 151.5E	VW-R-P05	1360M	---	---	---	---	--/--	CIRC	----	30	--
32	131510Z	38.2N 151.8E	VW-R-P10	1270M	---	---	---	---	--/--	CIRC	----	50	10

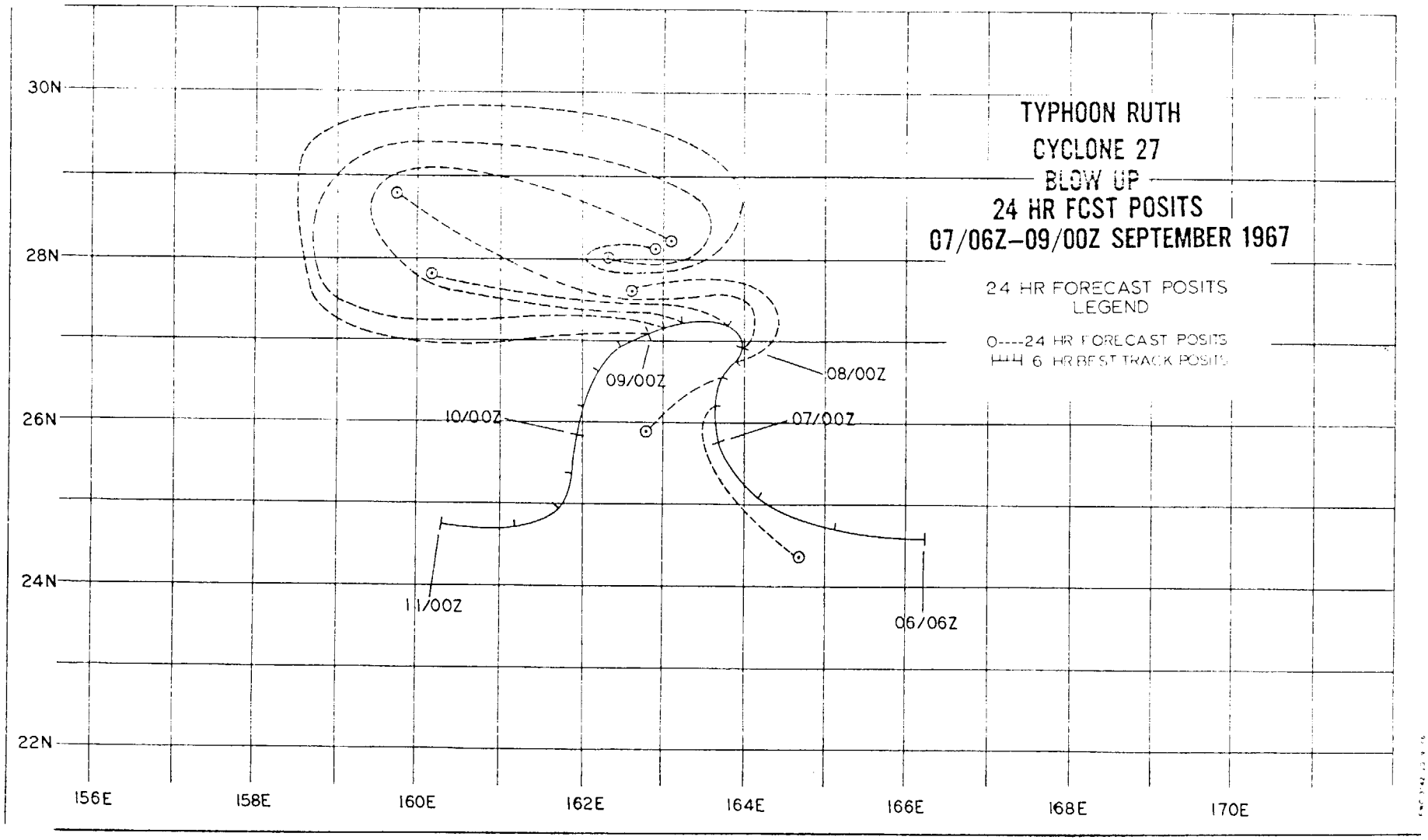
TROPICAL CYCLONE 27 -- 09/06/0600Z TO 09/13/1800Z
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DIST.	48 HR. ERROR DEG. DIST.	72 HR. ERROR DEG. DIST.
070600Z	26.2N	163.7E	156-0114	--------	--------
071200Z	26.5N	163.8E	233-0066	--------	--------
071800Z	26.7N	163.9E	309-0084	--------	--------
080000Z	26.9N	164.0E	297-0246	--------	--------
080600Z	27.2N	163.7E	280-0186	--------	--------
081200Z	27.2N	163.3E	354-0060	--------	--------
081800Z	27.2N	163.0E	323-0060	--------	--------
090000Z	27.1N	162.8E	006-0066	296-0354	--------
090600Z	26.9N	162.5E	005-0144	312-0318	--------
091200Z	26.6N	162.2E	024-0090	000-0228	--------
091800Z	26.2N	162.0E	024-0114	356-0222	--------
100000Z	25.8N	161.9E	360-0072	007-0258	--------
100600Z	25.4N	161.9E	336-0102	005-0354	336-0486
101200Z	24.9N	161.8E	316-0144	007-0306	--------
101800Z	24.7N	161.3E	039-0102	011-0318	006-0480
110000Z	24.7N	160.4E	054-0222	341-0150	--------
110600Z	24.9N	159.4E	077-0252	347-0132	025-0582
111200Z	25.2N	158.2E	082-0204	346-0102	--------
111800Z	25.8N	157.1E	103-0258	074-0192	039-0474
120000Z	26.7N	155.8E	109-0294	066-0378	--------
120600Z	28.0N	154.6E	140-0234	090-0480	080-0096
121200Z	29.4N	153.7E	174-0234	117-0378	--------
121800Z	31.0N	152.6E	172-0228	132-0498	125-0372
130000Z	32.7N	151.8E	220-0216	138-0558	--------
130600Z	34.8N	151.3E	241-0282	164-0594	114-0648
131200Z	37.1N	151.5E	151-0132	186-0618	--------
131800Z	39.5N	152.3E	217-0198	194-0672	161-0846

AVERAGE 24 HOUR ERROR - 0163 MI.
AVERAGE 48 HOUR ERROR - 0355 MI.
AVERAGE 72 HOUR ERROR - 0498 MI.


TYPHOON RUTH
CYCLONE 27
06–13 SEPTEMBER 1967
24 HR FORECAST POSITS
LEGEND
0----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
SEE BLOW UP
FOLLOWING PAGE
13/18Z
13/00Z
12/00Z
10/00Z
09/00Z
08/00Z
07/00Z
06/06Z
04/06Z
11/00Z
VLADIVOSTOK
TSINGTAO
SHANGHAI
TOKYO
OKINAWA
CHICHI JIMA
IWO JIMA
MANILA
SAIPAN
GUAM
YAP
ULITHI
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
WAKE
120°
125°
130°
135°
140°
145°
150°
155°
160°
165°
170°
175° East Longitude
40°
30°
20°
10°


TYPHOON RUTH
CYCLONE 27
BLOW UP
24 HR FCST POSITS
09/00Z–11/00Z SEPTEMBER 1967
24 HR FORECAST POSITS
LEGEND
O----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
30N
28N
26N
24N
22N
156E
158E
160E
162E
164E
166E
168E
170E
09/00Z
08/00Z
10/00Z
07/00Z
11/00Z
06/06Z


TYPHOON RUTH
CYCLONE 27
BLOW UP
24 HR FCST POSITS
07/06Z–09/00Z SEPTEMBER 1967
24 HR FORECAST POSITS
LEGEND
O----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
30N
28N
26N
24N
22N
156E
158E
160E
162E
164E
166E
168E
170E
09/00Z
08/00Z
10/00Z
07/00Z
11/00Z
06/06Z