TYPHOON RUTH - 131800Z-221800Z AUGUST 1962

I. DATA

A. Statistics

1. Calendar days of tropical warning - 9
2. Calendar days of typhoon intensity - 8
3. Total distance traveled during tropical warning period - 2316 MI

B. Characteristics as a typhoon

1. Min observed SLP - 916mb, 160345Z
2. Min observed 850mb height - 2005 ft, 160345Z
3. Min observed 700mb height - 7830 ft, 160345Z
4. Max vertical development - 45,000 ft, 170000Z

II. DEVELOPMENT

A. Initial impetus - Surge from westerlies into MPT followed by a cut-off low from MPT.

B. Initial surface vortex

1. Junction vortex at 111200Z
2. Surface pressure less than 1010mb
3. Maximum surface wind - 10 kts

C. Zenith flow at 200mb

1. Relative position surface vortex - SE quadrant of anticyclone
2. Wind velocity over vortex - 045/16 kts

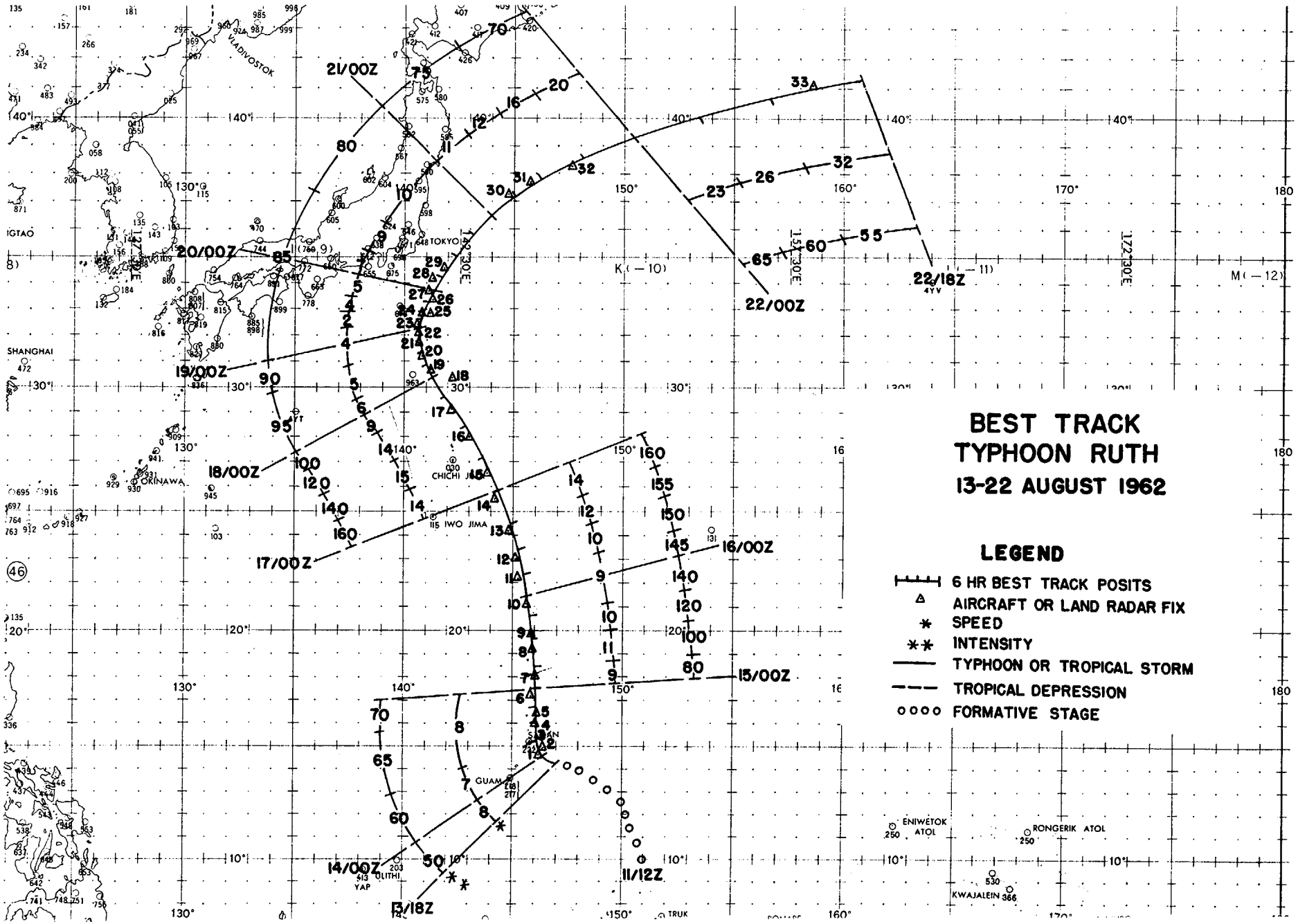
III. STEERING

A. Prior to recurvature - 200mb
B. During recurvature - 300mb
C. After recurvature - 300mb

IV. DISSIPATION

A. Causative factor - Cold air
B. Final disposition - Extratropical

V. DAMAGE - No reports received


BEST TRACK
TYPHOON RUTH
13-22 AUGUST 1962
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
21/00Z
20/00Z
19/00Z
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
13/18Z
11/12Z
22/00Z
22/18Z
VLADIVOSTOK
TOKYO
SHANGHAI
OKINAWA
CHICHI JIMA
IWO JIMA
GUAM
YAP
ULITHI
TRUK
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
K(-10)
M(-12)

LAND RADAR AND AIRCRAFT FIXES - TYPHOON RUTH

FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	MIN SLP MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
1	140000Z	14.6N	146.2E	54-P-02	55	50	10040	994	09/09	CIRC 25 MI DIA,OPEN W
2	140100Z	14.9N	146.3E	VW1-R-08	-	-	-	-	- -	BEGINNING TO CLOSE UP
3	140408Z	15.0N	146.1E	54-P-01	60	45	9950	-	12/12	INDEFINITE,OPEN N
4	141105Z	16.0N	146.0E	LND/RDR	-	-	-	-	- -	OPEN N
5	141500Z	16.4N	146.0E	VW1-R-¼	-	-	-	-	- -	DIA 6 MI,WALL CLDS 4 MI THICK
6	142210Z	17.1N	145.9E	54-P-05	70	60	9700	-	14/12	CIRC 15 MI DIA
7	150320Z	18.0N	146.0E	54-P-05	95	60	9560	981	17/11	DIA 12 MI,SATELLITE EYE SW DIA 5 MI
8	151000Z	19.2N	145.9E	VW1-R-02	-	-	-	-	- -	CIRC OPEN SE
9	151530Z	19.9N	145.8E	VW1-R-02	-	-	-	-	- -	ELLIP 19 MI N-S & 12 MI E-W
10	152145Z	21.1N	145.6E	54-P-03	150	120	8050	931	24/18	CIRC 10 MI DIA
11	160345Z	22.1N	145.2E	54-P-U	150	115	7830	916	25/-	CIRC 8 MI DIA
12	161000Z	23.0N	145.1E	VW1-R-05	-	-	-	-	- -	CIRC 11 MI DIA
13	161600Z	24.2N	144.9E	VW1-R-07	-	-	-	-	- -	CIRC 11 MI DIA,WALL CLDS 5 MI THICK
14	162200Z	25.5N	144.1E	54-P-04	170	-	8380	940	14/13	CIRC 10 MI DIA,OPEN E
15	170345Z	26.6N	143.8E	54-P-02	190	145	7890	919	16/15	CIRC 20 MI DIA
16	171000Z	28.0N	143.0E	VW1-R-01	-	-	-	-	- -	CIRC 10 MI DIA, 2ND CLOSED EYE 43 MI DIA

LAND RADAR AND AIRCRAFT FIXES - TYPHOON RUTH (CONT'D)

FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	MIN SLP MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
17	171610Z	29.2N	142.2E	VW1-R-05	-	-	-	-	- -	6 MI DIA,LGE EYE 45 MI DIA
18	172200Z	30.3N	142.1E	56-P-10	80	-	8740	950	12/12	CIRC 16 MI DIA,OUTER EYE 40 MI DIA
19	180400Z	30.7N	141.1E	56-P-03	90	90	8830	950	16/13	8X6 MI
20	181000Z	31.2N	140.9E	VW1-R-05	-	-	-	-	- -	31 MI DIA WELL DEFINED
21	181600Z	31.7N	140.7E	VW1-R-01	-	-	-	-	- -	CIRC 25 MI DIA
22	182215Z	32.1N	140.7E	56-P-02	75	75	9000	965	12/12	20X22 MI
23	190314Z	32.4N	140.7E	56-P-02	70	70	-	954	16/-	20X10 MI
24	191000Z	32.7N	140.8E	VW1-R-02	-	-	-	-	- -	CIRC 15 MI DIA
25	191500Z	32.8N	141.1E	VW1-R-03	-	-	-	-	- -	CIRC 23 MI DIA
26	192215Z	33.3N	141.3E	56-P-01	-	80	8800	955	15/11	CIRC 20 MI DIA
27	200000Z	33.6N	141.1E	LND/RDR	-	-	-	-	- -	---
28	200400Z	34.1N	141.3E	LND/RDR	-	-	-	-	- -	---
29	200815Z	34.5N	141.9E	56-P-02	85	80	8810	956	15/-	CIRC 15 MI DIA
30	210647Z	37.3N	144.9E	54-P-03	50	70	8870	957	14/12	OVAL 20 MI E-W/15 MI N-S
31	211000Z	37.6N	145.8E	VW1-R-05	-	-	-	-	- -	CIRC 14 MI DIA
32	211600Z	38.3N	147.7E	VW1-R-05	-	-	-	-	- -	CIRC 25 MI DIA
33	221500Z	41.0N	158.6E	VW1-R-10	-	-	-	-	- -	POORLY DEFINED

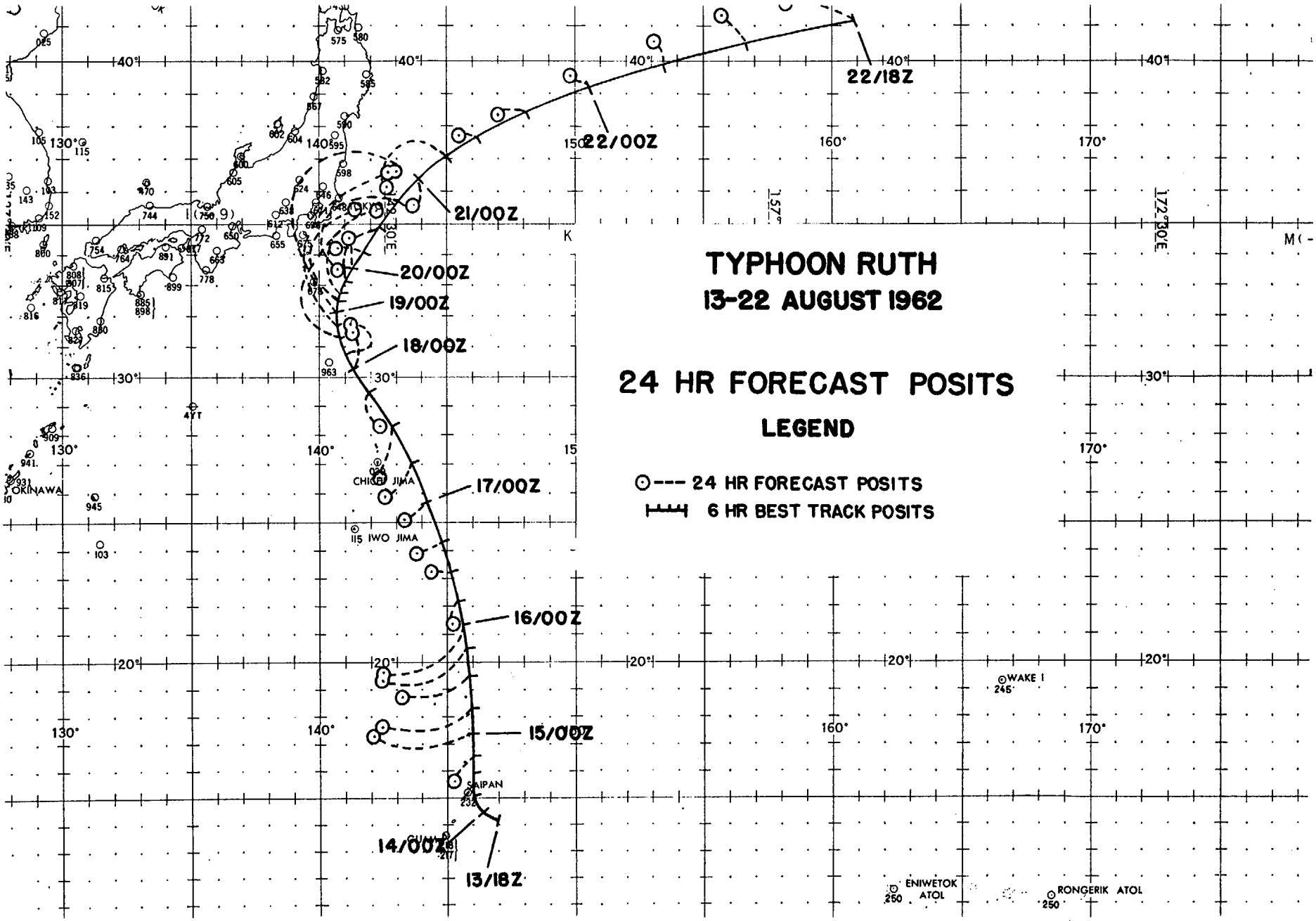
TYPHOON RUTH 13-22 AUG 1962
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DISTANCE	48 HR. ERROR DEG. DISTANCE
131800Z	14.2N	147.0E	------	------
140000Z	14.5N	146.3E	------	------
140600Z	15.2N	146.0E	------	------
141200Z	16.0N	146.0E	------	------
141800Z	16.8N	146.0E	------	------
150000Z	17.5N	146.0E	264-227	------
150600Z	18.4N	146.0E	257-201	------
151200Z	19.6N	145.9E	256-166	------
151800Z	20.6N	145.8E	247-197	------
160000Z	21.4N	145.6E	239-204	249-372
160600Z	22.3N	145.3E	183-55	241-367
161200Z	23.3N	145.0E	270-37	243-364
161800Z	24.4N	144.7E	239-48	237-403
170000Z	25.8N	144.2E	230-68	237-388
170600Z	27.1N	143.6E	220-84	187-125
171200Z	28.4N	142.8E	192-110	184-147
171800Z	29.6N	141.8E	159-73	175-176
180000Z	30.4N	141.3E	350-73	193-48
180600Z	30.9N	141.0E	005-60	193-32
181200Z	31.3N	140.8E	017-252	025-25
181800Z	31.8N	140.7E	018-310	023-138
190000Z	32.2N	140.7E	022-312	031-438
190600Z	32.6N	140.8E	011-168	033-448
191200Z	32.8N	140.9E	358-78	032-825
191800Z	33.2N	141.0E	003-90	041-900
200000Z	33.6N	141.3E	352-65	034-720
200600Z	34.2N	141.7E	292-42	033-438
201200Z	35.0N	142.3E	253-60	105-139
201800Z	35.8N	143.0E	223-162	026-274

TYPHOON RUTH 13-22 AUG 1962 (CONT'D)
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DISTANCE	48 HR. ERROR DEG. DISTANCE
210000Z	36.5N	143.9E	240-117	015-187
210600Z	37.2N	145.0E	247-114	267-104
211200Z	37.8N	146.2E	270-42	275-120
211800Z	38.6N	148.0E	258-49	247-294
220000Z	39.4N	150.4E	308-31	247-364
220600Z	40.1N	153.3E	343-42	253-392
221200Z	40.7N	156.6E	313-50	269-202
221800Z	41.3N	160.8E	289-122	273-278

AVERAGE 24 HOUR ERROR 115.9 MI
AVERAGE 48 HOUR ERROR 311.0 MI


TYPHOON RUTH
13-22 AUGUST 1962
24 HR FORECAST POSITS
LEGEND
24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
22/18Z
22/00Z
21/00Z
20/00Z
19/00Z
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
13/18Z
OKINAWA
CHICHI JIMA
IWO JIMA
SAIPAN
WAKE I
ENIWETOK ATOL
RONGERIK ATOL