TYPHOON CARMEN - 071200Z to 170000Z AUG

I. DATA

A. Statistics

1. Calendar days of tropical warning - 9 3/4
2. Calendar days of typhoon intensity - 5 3/4
3. Total distance traveled during tropical warning period - 2430 mi

B. Characteristics as a typhoon

1. Minimum observed SLP - 936mb, 120400Z
2. Minimum observed 700mb height - 2539m, 120400Z
3. Max radius of SFC circulation - 250 mi
4. Max surface winds - 125 kts

II. DEVELOPMENT

A. Initial impetus - Juxtaposition of MPT and subsequent fracture. Development of outdraft over storm.

B. Initial surface vortex

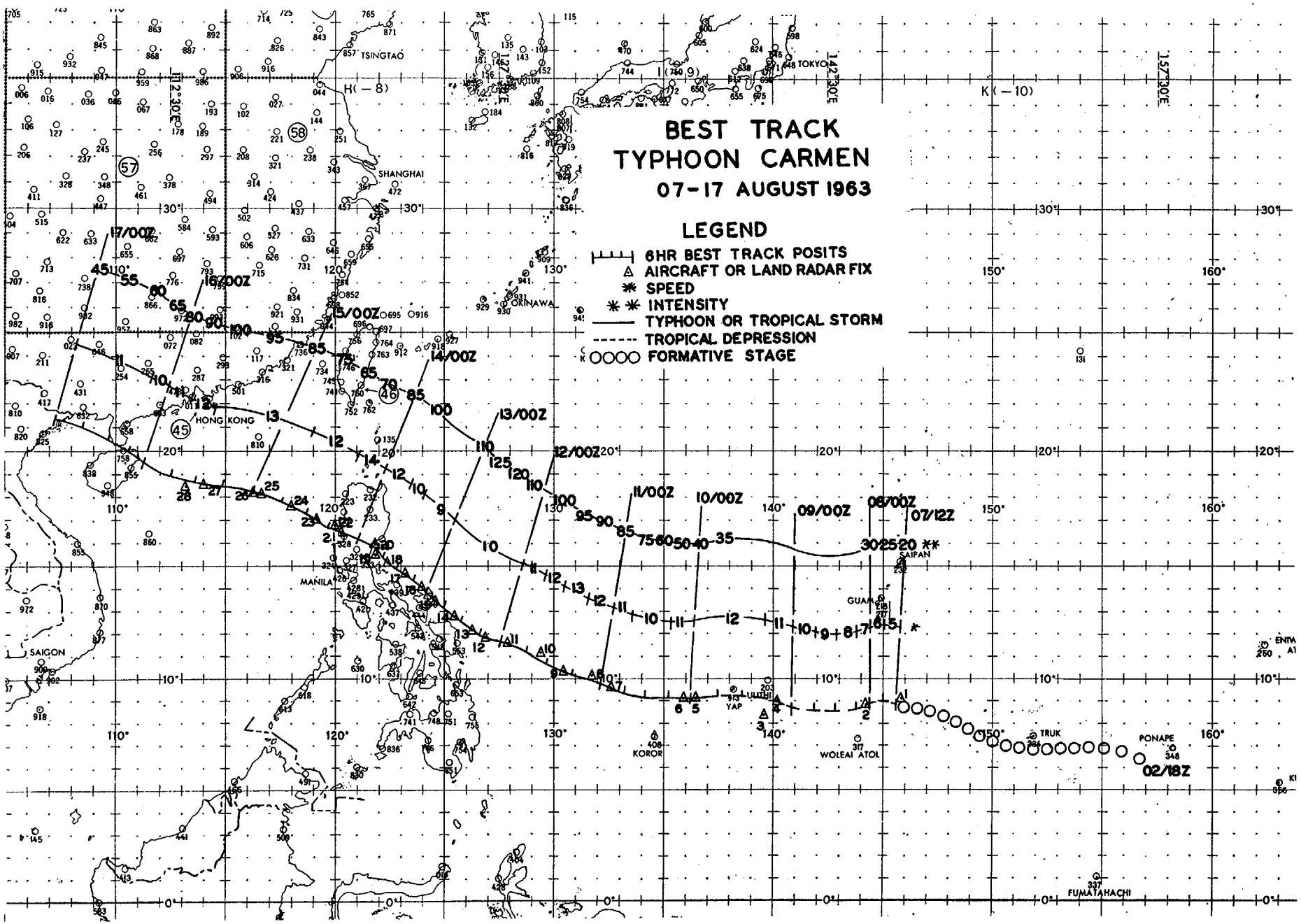
1. Junction vortex at 021800Z
2. Surface pressure less than 1006mb

C. Zenith flow at 200mb

1. Relative position surface vortex - SW quadrant of anticyclone
2. Wind direction over vortex - SE

III. FINAL DISPOSITION

A. Dissipated over land.


BEST TRACK
TYPHOON CARMEN
07-17 AUGUST 1963
LEGEND
6HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
TSINGTAO
SHANGHAI
TOKYO
OKINAWA
HONG KONG
MANILA
SAIGON
SAIPAN
GUAM
YAP
KOROR
WOLEAI ATOL
TRUK
PONAPE
FUMATAHACHI
17/00Z
16/00Z
15/00Z
14/00Z
13/00Z
12/00Z
11/00Z
10/00Z
09/00Z
08/00Z
07/12Z
02/18Z

LAND RADAR AND AIRCRAFT FIXES - TYPHOON CARMEN

FIX NO/TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	RECON MIN SLP MBS	JTWC MIN SLP *MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
1 070400Z	09.1N	145.8E	54-P-U	23	-	-	1003	-	- -	---
2 080256Z	08.9N	144.2E	54-P-03	30	-	-	1003	-	- -	---
3 082325Z	08.3N	139.6E	54-P-07	20	-	-	1007	-	- -	CIRC 15 MI DIA,WALL CLDS ALL QUADS
4 090425Z	09.1N	140.0E	54-P-05	30	-	-	1004	-	- -	CIRC 15 MI DIA,OPEN SE
5 092330Z	09.1N	136.3E	VW1-P-05	40	-	-	999	-	- -	WIND EYE CIRC 10 MI DIA, EXCELLENT RDR PIC
6 100245Z	09.1N	135.9E	VW1-R-05	45	-	-	994	-	- -	WIND EYE CIRC 10 MI DIA,CLD EYE CIRC 40 MI DIA
7 102200Z	09.7N	132.5E	54-P-03	85	55	2957	980	987	17/07	OVAL 30 MI NE/SW,20 MI NW/SE, OPEN SE
8 110400Z	10.1N	131.8E	54-P-03	70	60	2926	992	984	16/09	GEOG CNTR 4 MI W OF PRES CNTR
9 111008Z	10.6N	130.4E	VW1-R-03	-	-	-	-	-	- -	OVAL 30 MI N/S,25 MI E/W, WEAK WALL CLDS
10 111530Z	11.3N	129.5E	VW1-R-03	-	-	-	-	-	- -	CLSD WALL CLDS 3 MI THICK
11 112200Z	11.6N	127.9E	56-P-03	100	90	2762	955	963	19/11	CIRC 25 MI DIA CLOSED
12 120400Z	11.9N	126.9E	56-P-01	80	105	2539	934	936	23/16	CIRC 20 MI DIA,CLSD WALL CLDS 5 MI THICK
13 121000Z	12.3N	126.3E	VW1-R-02	-	-	-	-	-	- -	ELLIP 15 MI N/S,10 MI E/W, CLSD WALL CLDS 8 MI THICK

*Computed

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

FIX NO/TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	RECON MIN SLP MBS	JTWC MIN SLP *MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
14 121530Z	12.8N	125.5E	VW1-R-02	-	-	-	-	-	- -	CIRC 13 MI DIA CLOSED
15 122145Z	13.4N	124.7E	54-P-02	125	115	2560	898	942	17/16	CIRC 35 MI DIA,CLSD,GEOG CNTR 8 MI E OF PRES CNTR
16 130600Z	14.2N	124.0E	56-P-½	-	-	-	-	-	- -	CLOSED
17 131000Z	14.8N	123.2E	VW1-R-02	-	-	-	-	-	- -	CIRC 25 MI DIA,WALL CLDS 3 MI THICK,TOPS 45000 FT
18 131600Z	15.2N	122.4E	VW1-R-02	-	-	-	-	-	- -	CIRC 20 MI DIA,CLSD WALL CLDS 3 MI THICK
19 131830Z	15.5N	121.9E	LND/RDR	-	-	-	-	-	- -	---
20 132200Z	16.1N	121.6E	56-P-01	75	-	-	-	-	- -	CIRC
21 140300Z	16.3N	120.2E	56-P-01	70	-	-	992	-	- -	ELLIP WALL CLDS NE & W QUAD
22 140630Z	16.7N	120.0E	LND/RDR	-	-	-	-	-	- -	---
23 141008Z	17.1N	119.1E	VW1-P-03	45	-	-	-	-	- -	CNTR POORLY DEFINED
24 141530Z	17.6N	118.0E	VW1-R-10	-	-	-	-	-	- -	CNTR DIFFUSED
25 142143Z	18.2N	116.6E	56-P-01	-	62	2917	987	984	17/06	CIRC 80 MI DIA,OPEN E
26 150400Z	18.2N	116.2E	56-P-01	85	78	2920	-	984	15/-	CIRC 100 MI DIA
27 151015Z	18.5N	114.0E	VW1-P-02	120	-	2896	973	978	17/-	CIRC 75 MI DIA,CLSD WALL CLDS 10 MI THICK
28 151300Z	18.5N	113.2E	VW1-P-05	-	-	-	-	-	- -	ELLIP 81 MI NW/SE,53 MI NE/SW,OPEN N

*Computed

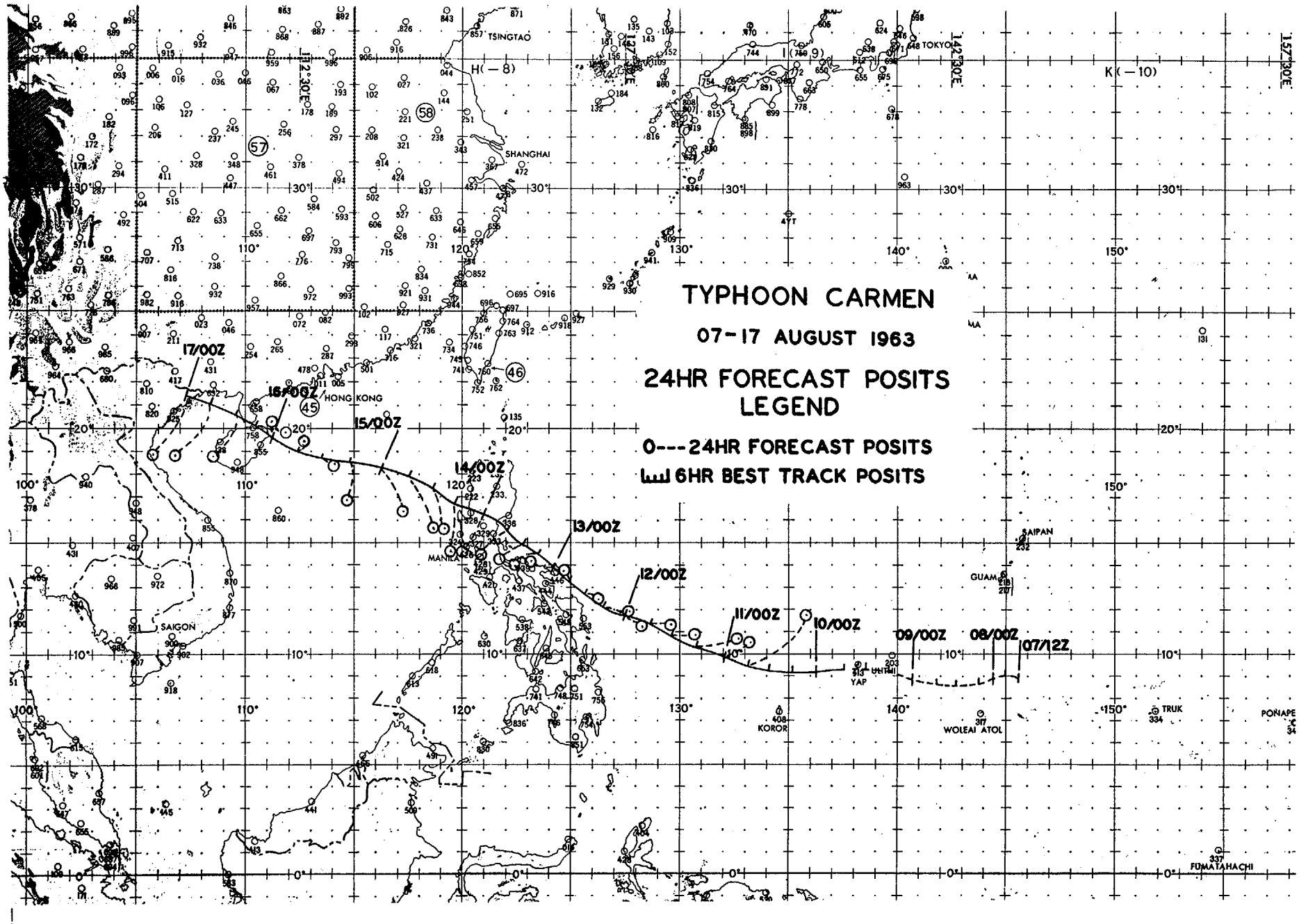
TYPHOON CARMEN 07 AUG-17 AUG 1963
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
071200Z	08.9N	145.5E	------	------
071800Z	09.0N	145.0E	------	------
080000Z	08.9N	144.4E	------	------
080600Z	08.8N	143.7E	------	------
081200Z	08.8N	142.8E	------	------
081800Z	08.8N	141.9E	------	------
090000Z	08.9N	140.9E	------	------
090600Z	09.1N	139.8E	------	------
091200Z	09.2N	138.6E	------	------
091800Z	09.2N	137.4E	------	------
100000Z	09.1N	136.2E	------	------
100600Z	09.1N	135.1E	------	------
101200Z	09.2N	134.1E	------	------
101800Z	09.4N	133.1E	047-214	------
110000Z	09.8N	132.1E	058-72	------
110600Z	10.2N	130.9E	076-102	------
111200Z	10.8N	129.7E	084-59	------
111800Z	11.3N	128.6E	090-53	------
120000Z	11.7N	127.5E	118-40	084-137
120600Z	12.0N	126.7E	112-47	094-180
121200Z	12.6N	125.8E	127-23	106-73
121800Z	13.1N	125.0E	332-41	109-52
130000Z	13.8N	124.2E	288-68	174-52
130600Z	14.4N	123.6E	252-84	171-72
131200Z	14.9N	122.9E	233-72	214-76
131800Z	15.6N	122.1E	222-93	235-126
140000Z	16.2N	121.0E	212-117	237-172
140600Z	16.7N	119.7E	186-118	231-168
141200Z	17.3N	118.6E	166-106	213-167
141800Z	17.8N	117.5E	156-146	208-180

TYPHOON CARMEN 07 AUG-17 AUG 1963
POSITION AND FORECAST VERIFICATION DATA (CONT'D)

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
150000Z	18.3N	116.2E	154-128	199-186
150600Z	18.4N	114.9E	191-95	169-194
151200Z	18.6N	113.5E	112-30	148-160
151800Z	19.0N	112.3E	053-32	140-200
160000Z	19.5N	111.3E	342-45	139-170
160600Z	20.1N	110.5E	101-78	202-117
161200Z	20.5N	109.4E	208-118	198-29
161800Z	21.0N	108.3E	213-150	350-18
170000Z	21.4N	107.3E	210-175	340-20

AVERAGE 24 HOUR ERROR 89 MI
AVERAGE 48 HOUR ERROR 121 MI


TYPHOON CARMEN
07-17 AUGUST 1963
24HR FORECAST POSITS
LEGEND
0---24HR FORECAST POSITS
6HR BEST TRACK POSITS
17/00Z
16/00Z
15/00Z
14/00Z
13/00Z
12/00Z
11/00Z
10/00Z
09/00Z
08/00Z
07/12Z
TSINGTAO
SHANGHAI
HONG KONG
MANILA
SAIGON
TOKYO
SAIPAN
GUAM
YAP
KOROR
WOLEAI ATOL
TRUK
PONAPE
FUMATAHACHI
H(-8)
I(-9)
K(-10)
142°30'E
157°30'E
112°30'E