TYPHOON OPEL - 300600Z JULY-061200Z AUGUST 1962

I. DATA

A. Statistics

1. Calendar days of tropical warning - 6¼

2. Calendar days of typhoon intensity - 4

3. Total distance traveled during tropical warning period - 2310 MI

B. Characteristics as a typhoon

1. Min observed SLP - 910mb, 050340Z

2. Min observed 850mb height - 1980 ft, 050340Z

3. Min observed 700mb height - 7590 ft, 050340Z

4. Max vertical development - 35,000 ft, 051200Z

II. DEVELOPMENT

A. Initial impetus - Easterly wave and polar trough fractured after superposition. Surge from westerlies into easterlies at the 200mb level.

B. Initial surface vortex

1. Junction vortex at 281200Z

2. Surface pressure less than 1007mb

3. Maximum surface wind - 15 kts

C. Zenith flow at 200mb

1. Relative position surface vortex - SE quadrant of anticyclone

2. Wind velocity over vortex - 070/31 kts

III. STEERING

A. Prior to recurvature - 500mb

B. During recurvature - NA

C. After recurvature - NA

IV. DISSIPATION

A. Causative factor - Land strike and cold air

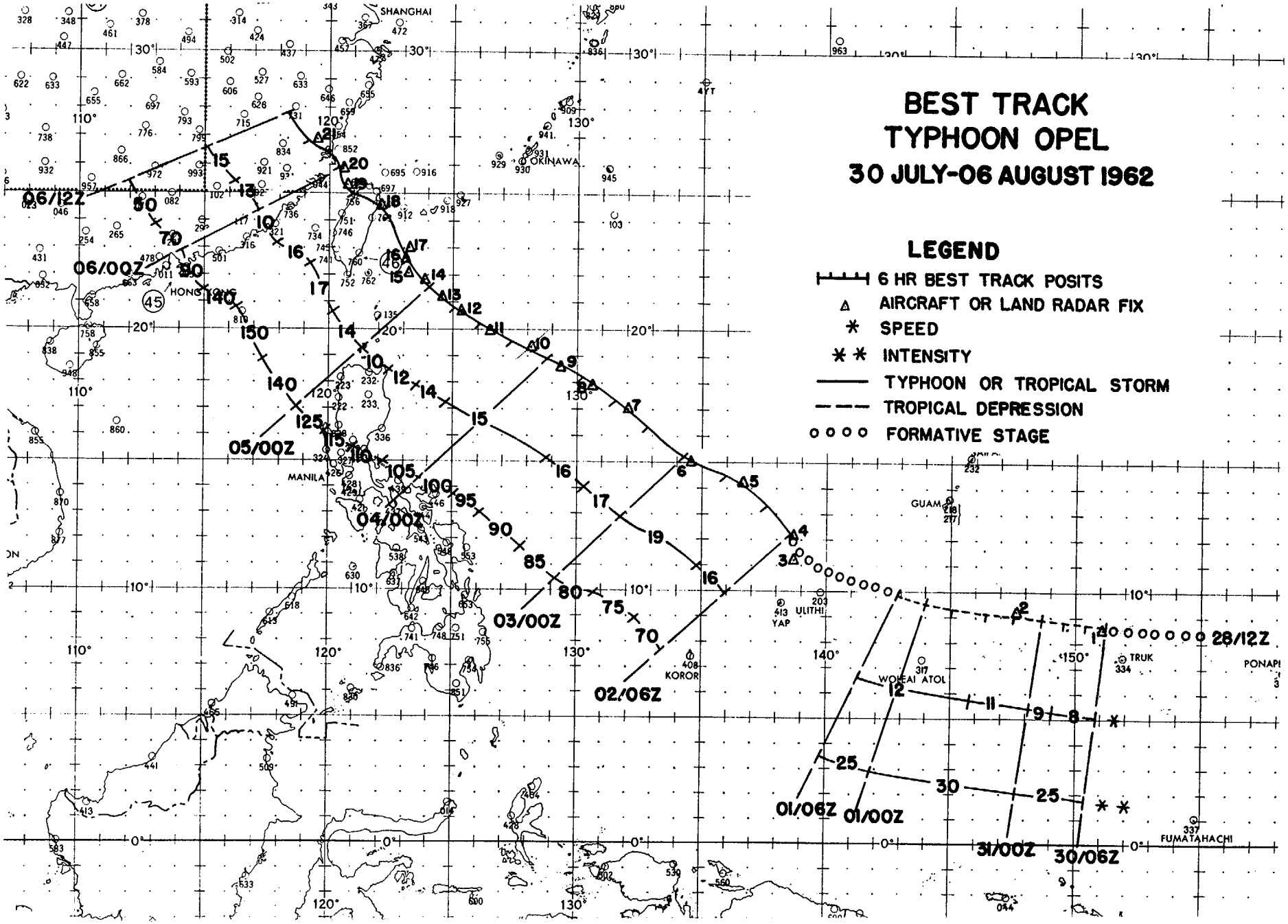
B. Final disposition - Extratropical

V. DAMAGE

A. Total lives lost - 75

B. Total monetary value - $25,000,000

C. Types of property - Crops, homes, power and communications lines, ships and boats


BEST TRACK
TYPHOON OPEL
30 JULY-06 AUGUST 1962
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
SHANGHAI
OKINAWA
HONG KONG
MANILA
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPI
FUMATAHACHI
06/12Z
06/00Z
05/00Z
04/00Z
03/00Z
02/06Z
01/06Z
01/00Z
31/00Z
30/06Z
28/12Z

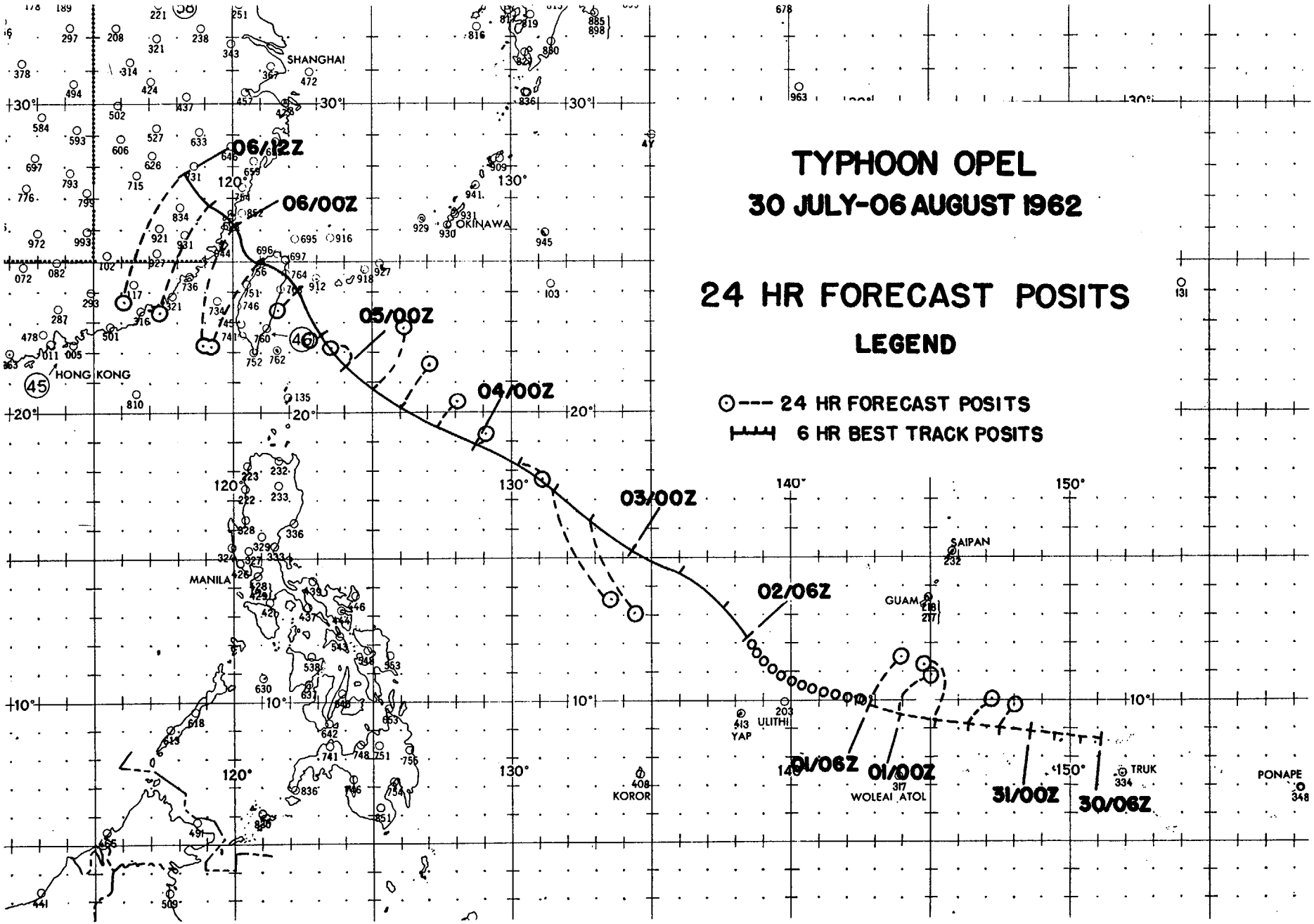
LAND RADAR AND AIRCRAFT FIXES - TYPHOON OPEL

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	300428Z	08.6N	151.3E	VW1-P-01	25	-	10080	1000	15/-	25 MI N-S & 40 MI E-W
2	302300Z	09.2N	147.7E	VW1-P-15	30	-	-	-	- -	NOT WELL DEFINED
3	020245Z	11.3N	138.8E	VW1-P-03	70	-	-	987	- -	DIA 60 MI
4	020550Z	12.1N	138.6E	VW1-P-03	-	-	-	986	- -	10 MI N-S & 20 MI E-W
5	021600Z	14.1N	136.7E	VW1-R-05	-	-	-	-	- -	CIRC 15 MI DIA,OPEN N&S
6	022215Z	15.0N	134.6E	54-P-05	80	60	9850	980	13/12	CIRC 5 MI DIA
7	031000Z	17.0N	132.0E	VW1-R-03	-	-	-	-	- -	CIRC 37 MI DIA,OPEN W
8	031547Z	17.9N	130.6E	VW1-R-03	-	-	-	-	- -	CIRC 30 MI DIA
9	032200Z	18.6N	129.3E	54-P-03	65	80	9230	954	16/11	DIA 30 MI
10	040337Z	19.3N	128.1E	54-P-03	50	90	9060	966	19/17	CIRC 30 MI DIA
11	041000Z	20.0N	126.5E	VW1-R-03	-	-	-	-	- -	DIA 28 MI
12	041600Z	20.7N	125.3E	VW1-R-01	-	-	-	-	- -	DIA 23 MI
13	042120Z	21.2N	124.5E	54-P-02	135	130	7730	-	26/20	CIRC 15 MI DIA
14	050200Z	21.8N	123.9E	LND/RDR	-	-	-	-	- -	---
15	050340Z	22.0N	123.1E	54-P-05	150	130	7590	910	26/22	CIRC 18 MI DIA
16	050600Z	22.6N	123.2E	LND/RDR	-	-	-	-	- -	---
17	050900Z	23.0N	123.1E	LND/RDR	-	-	-	-	- -	---
18	051400Z	24.6N	122.0E	LND/RDR	-	-	-	-	- -	---
19	052100Z	25.3N	120.7E	LND/RDR	-	-	-	-	- -	---
20	052300Z	25.8N	120.5E	LND/RDR	-	-	-	-	- -	---
21	060300Z	26.9N	119.5E	LND/RDR	-	-	-	-	- -	---

TYPHOON OPEL 30 JUL-06 AUG 1962
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DISTANCE	48 HR. ERROR DEG. DISTANCE
300600Z	08.6N	151.2E	------	------
301200Z	08.7N	150.3E	------	------
301800Z	08.8N	149.5E	------	------
310000Z	08.9N	148.6E	------	------
310600Z	09.0N	147.5E	------	------
311200Z	09.2N	146.4E	------	------
311800Z	09.3N	145.2E	------	------
010000Z	09.5N	144.0E	------	------
010600Z	09.9N	142.8E	------	------
NO WARNINGS ISSUED 011200Z TO 020600Z				
020600Z	12.2N	138.6E	------	------
021200Z	13.4N	137.6E	------	------
021800Z	14.5N	136.0E	------	------
030000Z	15.2N	134.2E	------	------
030600Z	16.3N	132.9E	153-215	------
031200Z	17.3N	131.5E	153-255	------
031800Z	18.2N	130.2E	118-63	------
040000Z	18.9N	128.8E	030-32	------
040600Z	19.6N	127.4E	040-65	138-320
041200Z	20.2N	126.1E	035-102	135-350
041800Z	20.8N	125.0E	030-135	056-122
050000Z	21.5N	124.1E	321-58	037-220
050600Z	22.5N	123.2E	245-27	046-150
051200Z	24.1N	122.4E	226-60	050-127
051800Z	25.0N	120.9E	210-193	054-140
060000Z	25.9N	120.3E	199-234	225-95
060600Z	26.8N	119.3E	208-227	184-132
061200Z	27.9N	118.3E	205-276	190-155

AVERAGE 24 HOUR ERROR 138.7 MI
AVERAGE 48 HOUR ERROR 181.1 MI


TYPHOON OPEL
30 JULY-06 AUGUST 1962
24 HR FORECAST POSITS
LEGEND
24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
06/12Z
06/00Z
05/00Z
04/00Z
03/00Z
02/06Z
01/06Z
01/00Z
31/00Z
30/06Z
SHANGHAI
OKINAWA
HONG KONG
MANILA
SAIPAN
GUAM
ULITHI
YAP
KOROR
WOLEAI ATOL
TRUK
PONAPE
30°
20°
10°
120°
130°
140°
150°