TYPHOON THELMA - 210000Z-270600Z AUGUST 1962

I. DATA

A. Statistics

1. Calendar days of tropical warning - 6¼

2. Calendar days of typhoon intensity - 3¼

3. Total distance traveled during tropical warning period - 1824 MI

B. Characteristics as a typhoon

1. Min observed SLP - 946mb, 230345Z

2. Min observed 850mb height - 3865 ft, 250300Z

3. Min observed 700mb height - 8540 ft, 250300Z

4. Max vertical development - 35,000 ft, 250000Z

II. DEVELOPMENT

A. Initial impetus - Data inconclusive on surge from westerlies. Fractured portion of MPT became easterly wave.

B. Initial surface vortex

1. Embedded and junction vortex at 200000Z

2. Both vortices had surface pressures of less than 1010mb.

3. Maximum surface wind - 10 kts

4. At 201800Z the embedded vortex had become dominate; both the easterly wave and the junction vortex had dissipated.

C. Zenith flow at 200mb

1. Relative position surface vortex - SE quadrant of anticyclone

2. Wind velocity over vortex - 045/20 kts

III. STEERING

A. Prior to recurvature - 500mb

B. During recurvature - 500mb

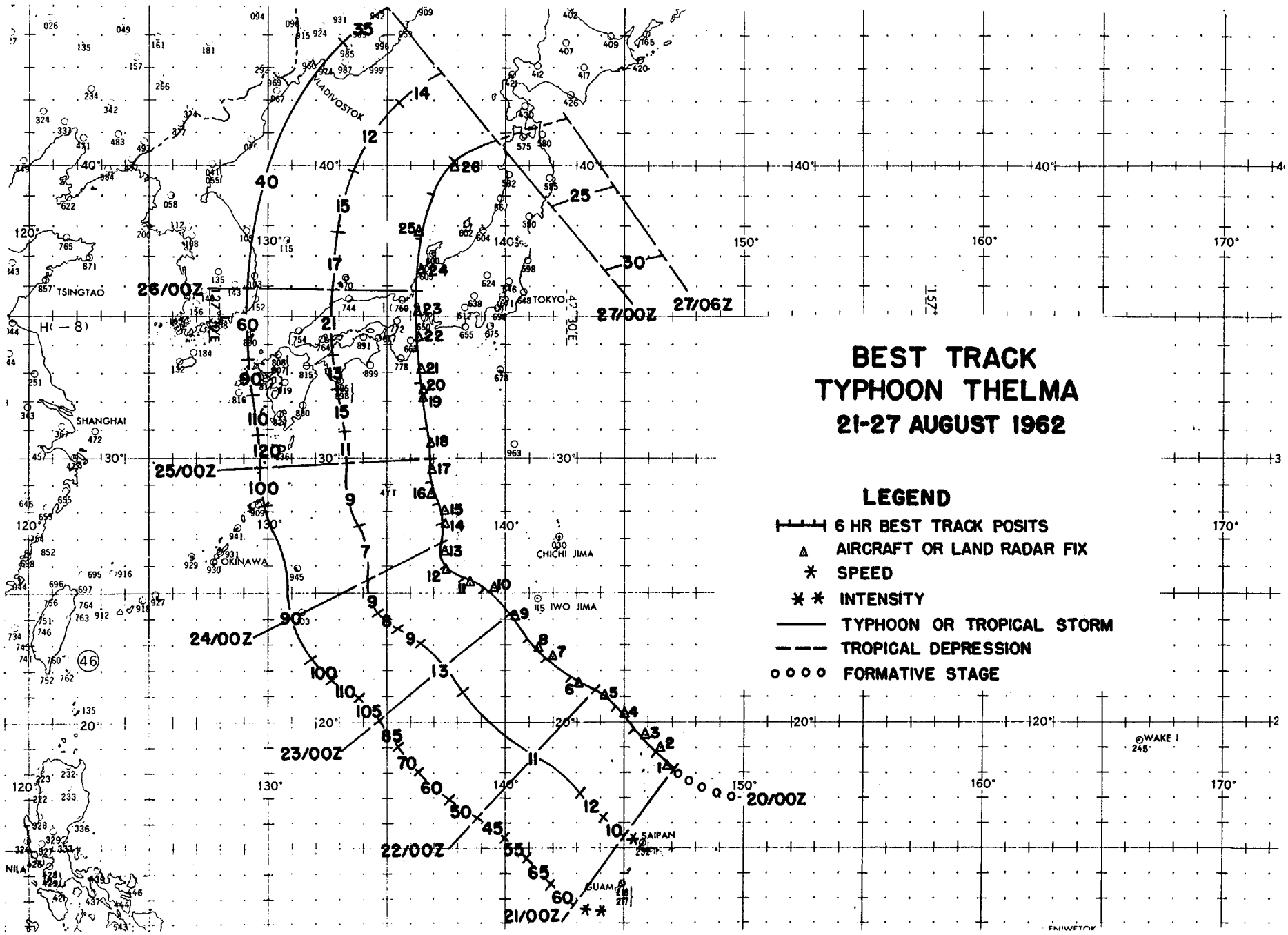
C. After recurvature - 500mb

IV. DISSIPATION

A. Causative factor - Land strike and cold air

B. Final disposition - Extratropical

V. DAMAGE - No reports received


BEST TRACK
TYPHOON THELMA
21-27 AUGUST 1962
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
26/00Z
27/00Z
27/06Z
25/00Z
24/00Z
23/00Z
22/00Z
21/00Z
20/00Z
VLADIVOSTOK
TSINGTAO
SHANGHAI
OKINAWA
TOKYO
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
WAKE I
ENIWETOK

LAND RADAR AND AIRCRAFT FIXES - TYPHOON THELMA

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	210154Z	18.4N	146.8E	54-P-U	65	-	-	999	- -	CIRC 15 MI DIA
2	210600Z	19.0N	146.5E	54-P-½	70	55	10080	992	16/14	CIRC 20 MI DIA,OPEN S
3	211000Z	19.5N	145.8E	VW1-R-05	-	-	-	-	- -	18 MI DIA
4	211530Z	20.3N	145.0E	VW1-R-05	-	-	-	-	- -	POORLY DEFINED
5	212210Z	21.0N	144.1E	54-P-03	45	40	10070	-	16/10	CIRC 20 MI DIA,OPEN SE-W
6	220355Z	21.6N	143.0E	54-P-05	50	48	9970	-	15/09	CIRC 12 MI DIA
7	220952Z	22.5N	142.0E	VW1-R-05	-	-	-	-	- -	CIRC 16 MI DIA,OPEN N&E
8	221500Z	22.9N	141.4E	VW1-R-05	-	-	-	-	- -	CIRC 23 MI DIA
9	222145Z	24.1N	140.4E	54-P-02	60	80	9420	975	15/09	ELLIP 18X20 MI
10	230345Z	25.1N	139.5E	54-P-02	100	100	8750	946	22/09	CIRC 14 MI DIA
11	231000Z	25.4N	138.5E	VW1-R-03	-	-	-	-	- -	CIRC 12 MI DIA
12	231600Z	25.8N	137.5E	VW1-R-05	-	-	-	-	- -	CIRC 20 MI DIA
13	232152Z	26.6N	137.4E	54-P-04	70	85	9040	959	18/15	DIA 10 MI
14	240410Z	27.7N	137.4E	54-P-06	80	-	8990	-	15/15	CIRC 12 MI DIA
15	240947Z	28.0N	137.4E	VW1-R-05	-	-	-	-	- -	CONCENTRIC INNER DIA 9 MI OUTER DIA 18 MI
16	241545Z	28.7N	136.9E	VW1-R-03	-	-	-	-	- -	DIA 18 MI,OPEN SW
17	242115Z	29.6N	136.9E	56-P-02	120	60	8710	950	15/13	DIA 20 MI
18	250300Z	30.5N	136.9E	54-P-04	120	120	8540	947	13/09	DIA 20 MI
19	251000Z	32.1N	136.6E	VW1-R-03	-	-	-	-	- -	DIA 16 MI,OPEN S
20	251200Z	32.4N	136.5E	LND/RDR	-	-	-	-	- -	---

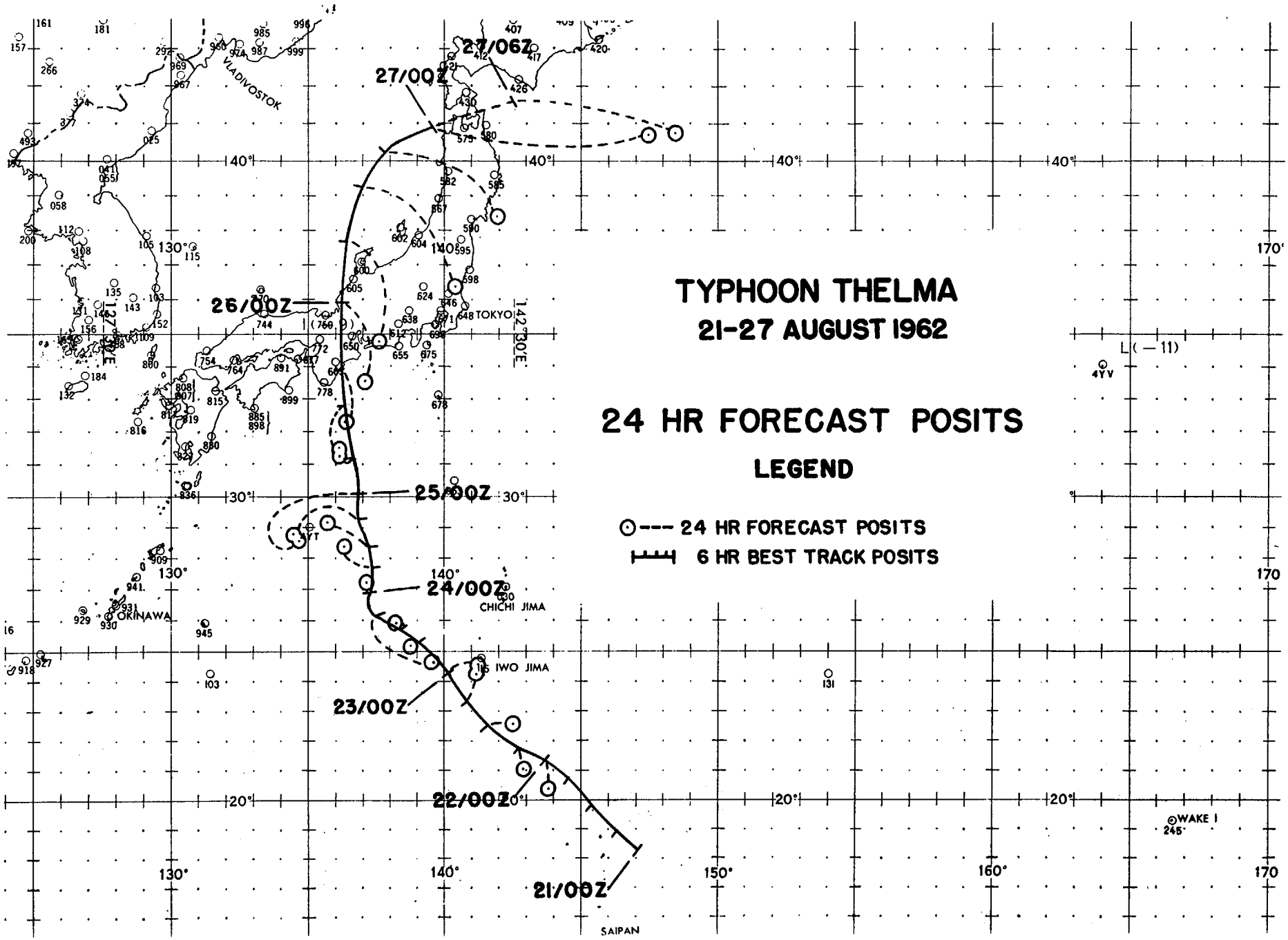
LAND RADAR AND AIRCRAFT FIXES - TYPHOON THELMA (CONT'D)

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
21	251500Z	33.2N	136.4E	LND/RDR	-	-	-	-	- -	---
22	251900Z	34.2N	136.3E	LND/RDR	-	-	-	-	- -	---
23	252200Z	35.3N	136.2E	LND/RDR	-	-	-	-	- -	---
24	260200Z	36.5N	136.4E	LND/RDR	-	-	-	-	- -	---
25	260652Z	37.8N	136.4E	56-P-01	-	45	10150	1001	12/11	DIA 70 MI
26	261730Z	40.0N	137.9E	LND/RDR	-	-	-	-	- -	---

TYPHOON THELMA 21-27 AUG 1962
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DISTANCE	48 HR. ERROR DEG. DISTANCE
210000Z	18.2N	147.1E	------	------
210600Z	18.9N	146.4E	------	------
211200Z	19.8N	145.5E	------	------
211800Z	20.6N	144.6E	------	------
220000Z	21.2N	143.8E	170-47	------
220600Z	21.8N	142.7E	165-53	------
221200Z	22.5N	141.8E	075-42	------
221800Z	23.3N	141.0E	010-51	------
230000Z	24.3N	140.2E	075-38	155-150
230600Z	25.2N	139.1E	260-09	155-137
231200Z	25.5N	138.2E	360-26	075-97
231800Z	26.0N	137.4E	125-143	040-110
240000Z	26.9N	137.4E	345-25	080-80
240600Z	27.7N	137.5E	305-70	305-82
241200Z	28.3N	137.3E	305-88	310-100
241800Z	29.1N	136.9E	265-134	170-122
250000Z	30.0N	136.9E	230-142	265-72
250600Z	31.1N	136.8E	295-38	265-87
251200Z	32.6N	136.4E	195-73	240-87
251800Z	33.8N	136.3E	175-87	225-184
260000Z	35.9N	136.2E	165-152	205-320
260600Z	37.6N	136.4E	160-175	128-148
261200Z	39.1N	137.0E	135-222	165-205
261800Z	40.1N	137.9E	115-214	160-217
270000Z	40.9N	139.4E	095-373	160-241
270600Z	41.5N	142.5E	095-274	160-221

AVERAGE 24 HOUR ERROR 112.5 MI
AVERAGE 48 HOUR ERROR 147.8 MI


TYPHOON THELMA
21-27 AUGUST 1962
24 HR FORECAST POSITS
LEGEND
24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
27/06Z
27/00Z
26/00Z
25/00Z
24/00Z
23/00Z
22/00Z
21/00Z
VLADIVOSTOK
TOKYO
CHICHI JIMA
IWO JIMA
OKINAWA
SAIPAN
WAKE I
L(-11)
4YV
142°30'E
127°30'E
130°
140°
150°
160°
170°
20°
30°
40°