TYPHOON GILDA - 190600Z-301800Z OCTOBER 1962

I. DATA

A. Statistics

1. Calendar days of tropical warning - 11½

2. Calendar days of typhoon intensity - 7¼

3. Total distance traveled during tropical warning period - 2706 MI

B. Characteristics as a typhoon

1. Min observed SLP - 933mb, 280200Z

2. Min observed 850mb height - 3275 ft, 280200Z

3. Min observed 700mb height - 8700 ft, 270040Z

4. Max vertical development - 30,000 ft, 271200Z

II. DEVELOPMENT

A. Initial impetus - Surge in easterlies combined with flow from Southern Hemisphere outdraft.

B. Initial surface vortex

1. Junction vortex at 180600Z

2. Surface pressure less than 1004mb

3. Maximum surface wind - 10 kts

C. Zenith flow at 200mb

1. Relative position surface vortex - NE quadrant of Southern Hemisphere anticyclone

2. Wind velocity over vortex - 140/19 kts

III. STEERING

A. Prior to recurvature - 500mb

B. During recurvature - 500mb

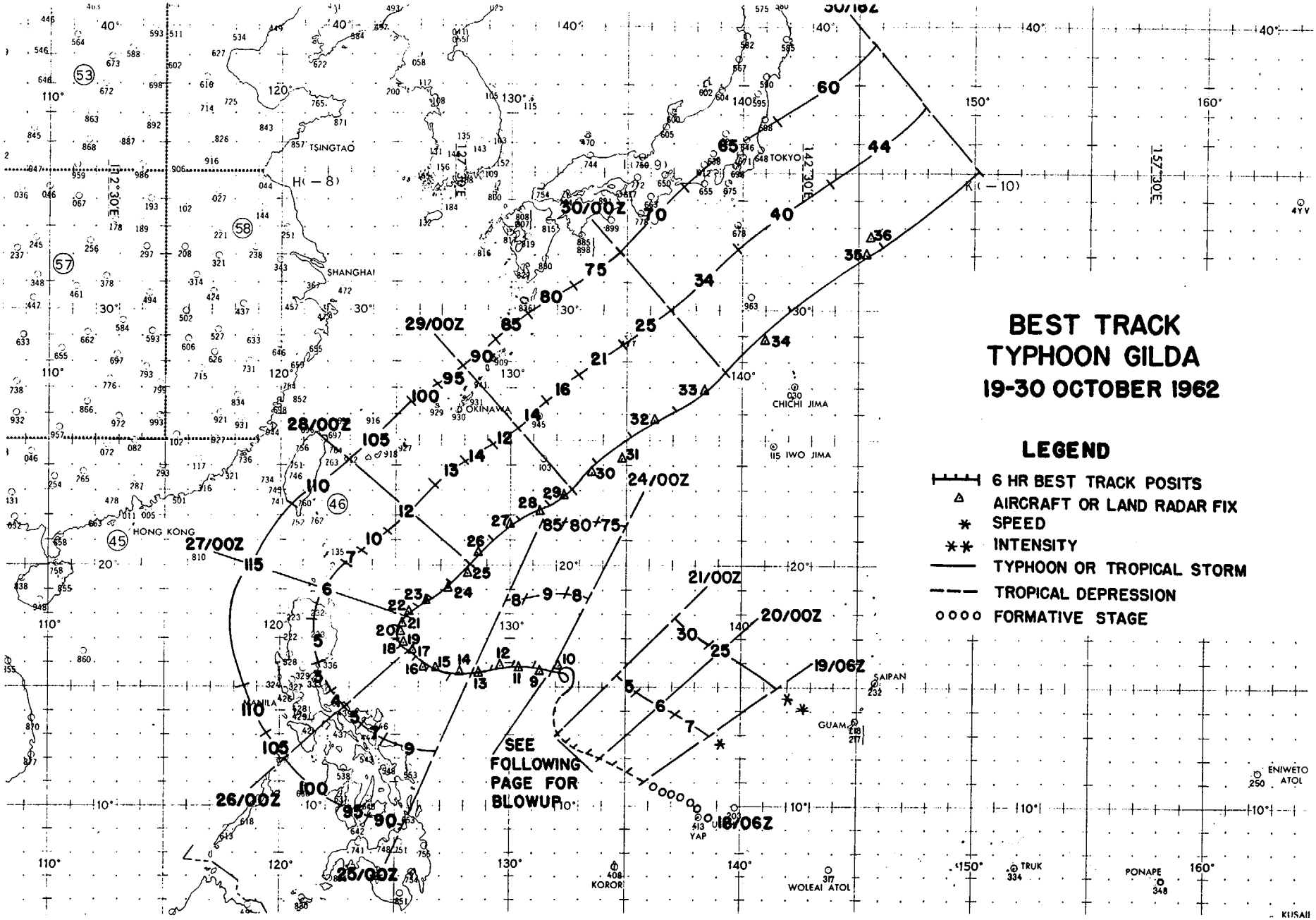
C. After recurvature - 500mb

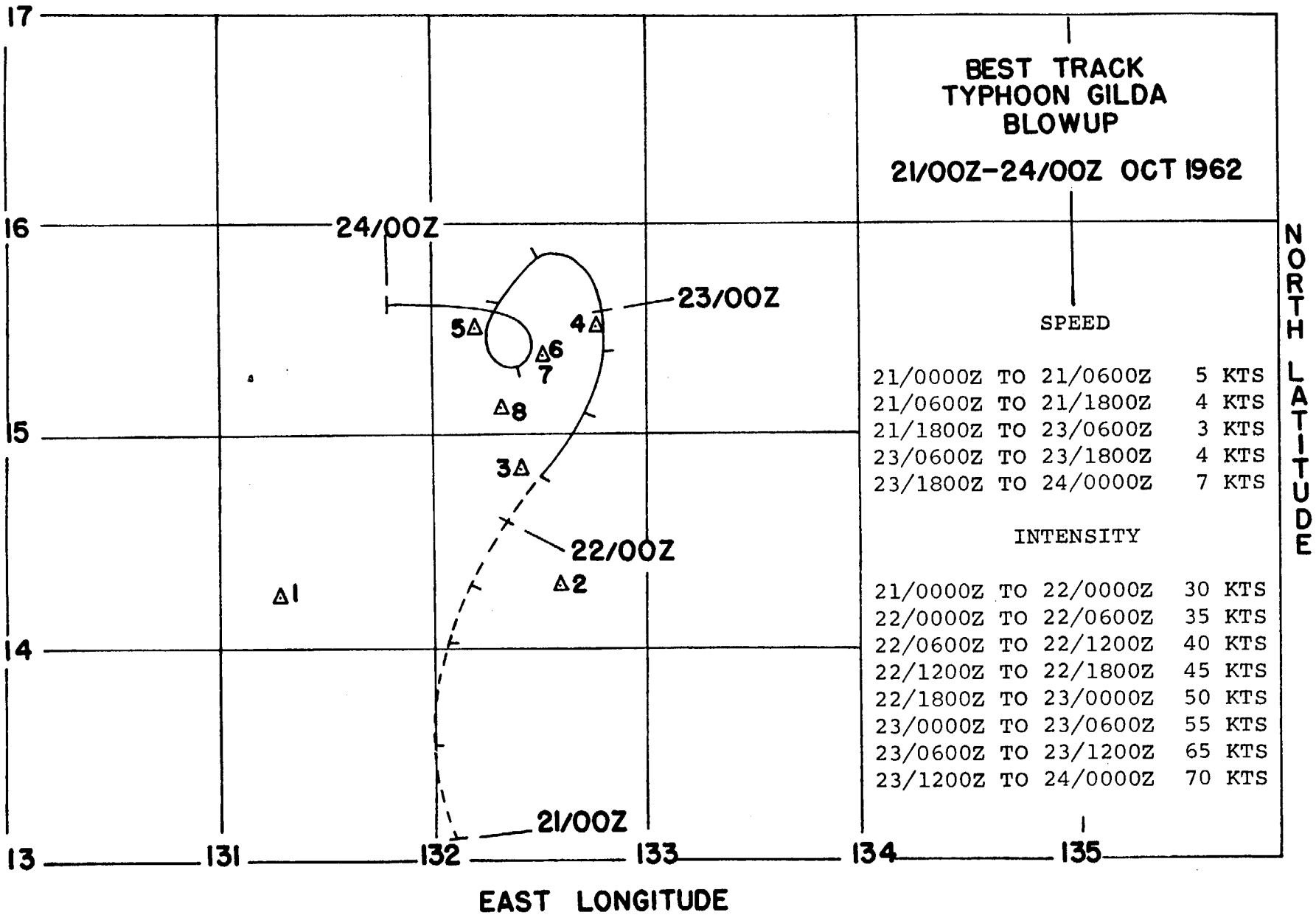
IV. DISSIPATION

A. Causative factor - Cold air

B. Final disposition - Extratropical

V. DAMAGE - No reports received


BEST TRACK
TYPHOON GILDA
19-30 OCTOBER 1962
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
SEE FOLLOWING PAGE FOR BLOWUP
TSINGTAO
SHANGHAI
OKINAWA
HONG KONG
MANILA
TOKYO
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
YAP
KOROR
WOLEAI ATOL
TRUK
PONAPE
ENIWETO ATOL
KUSAIE
27/00Z
28/00Z
29/00Z
30/00Z
24/00Z
21/00Z
20/00Z
19/06Z
18/06Z
26/00Z
25/00Z


BEST TRACK
TYPHOON GILDA
BLOWUP
21/00Z-24/00Z OCT 1962
SPEED
21/0000Z TO 21/0600Z 5 KTS
21/0600Z TO 21/1800Z 4 KTS
21/1800Z TO 23/0600Z 3 KTS
23/0600Z TO 23/1800Z 4 KTS
23/1800Z TO 24/0000Z 7 KTS
INTENSITY
21/0000Z TO 22/0000Z 30 KTS
22/0000Z TO 22/0600Z 35 KTS
22/0600Z TO 22/1200Z 40 KTS
22/1200Z TO 22/1800Z 45 KTS
22/1800Z TO 23/0000Z 50 KTS
23/0000Z TO 23/0600Z 55 KTS
23/0600Z TO 23/1200Z 65 KTS
23/1200Z TO 24/0000Z 70 KTS
24/00Z
23/00Z
22/00Z
21/00Z
1
2
3
4
5
6
7
8
17
16
15
14
13
131
132
133
134
135
NORTH LATITUDE
EAST LONGITUDE

LAND RADAR AND AIRCRAFT FIXES - TYPHOON GILDA

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	210245Z	14.2N	131.3E	54-T-05	25	-	-	998	- -	30 MI DIA
2	212200Z	14.2N	132.6E	54-P-U	25	-	-	998	- -	120 MI DIA, NO WALL CLDS
3	220355Z	14.8N	132.4E	54-P-05	40	45	9880	995	12/12	CIRC 10 MI DIA
4	222210Z	15.5N	132.8E	54-P-03	55	50	9890	992	15/08	CIRC 20 MI DIA, OPEN E & N
5	230330Z	15.5N	132.2E	54-P-03	65	60	9760	985	18/10	CIRC
6	231037Z	15.4N	132.4E	VW1-R-05	-	-	-	-	- -	CIRC 15 MI DIA, POORLY DEFINED
7	231534Z	15.4N	132.5E	VW1-R-02	-	-	-	-	- -	VERY DIFFUSE
8	232200Z	15.1N	132.3E	54-P-05	55	60	9740	983	18/07	POORLY DEFINED, OPEN NE & NW
9	240340Z	15.7N	131.4E	54-P-07	50	50	9720	983	20/08	NO WALL CLDS
10	240400Z	15.8N	132.1E	54-P-U	85	-	9820	981	14/-	CIRC 8 MI DIA
11	240950Z	15.8N	130.4E	VW1-R-05	-	-	-	-	- -	45 MI NE-SW & 22 MI NW-SE
12	241530Z	15.9N	129.6E	VW1-R-03	-	-	-	-	- -	CIRC 46 MI DIA
13	242210Z	15.5N	128.6E	54-P-02	75	65	9380	971	18/13	DIA 40 MI
14	250350Z	15.5N	127.8E	54-P-03	90	75	9200	966	16/12	DIA 40 MI
15	251000Z	15.7N	126.8E	VW1-R-05	-	-	-	-	- -	CIRC 30 MI DIA
16	251600Z	15.8N	126.2E	VW1-R-03	-	-	-	-	- -	CIRC 26 MI DIA

LAND RADAR AND AIRCRAFT FIXES - TYPHOON GILDA (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	252200Z	16.5N	125.8E	54-P-02	75	70	8890	958	15/14	30 MI DIA
18	260330Z	16.8N	125.4E	54-P-02	85	90	8840	942	15/13	40 MI DIA
19	261000Z	16.9N	125.2E	VW1-R-03	-	-	-	-	- -	CIRC 45 MI DIA
20	261600Z	17.4N	125.3E	VW1-R-03	-	-	-	-	- -	CIRC 41 MI DIA
21	262145Z	17.6N	125.3E	54-P-05	-	95	8710	956	14/13	CIRC 36 MI DIA
22	270040Z	18.0N	125.6E	54-P-05	65	95	8700	956	14/12	CIRC 36 MI DIA
23	271000Z	18.5N	126.4E	VW1-R-03	-	-	-	-	- -	CIRC 35 MI DIA
24	271600Z	19.1N	127.2E	VW1-R-03	-	-	-	-	- -	CIRC 35 MI DIA
25	272130Z	19.7N	128.1E	54-P-03	95	-	8850	949	18/17	CIRC 40 MI DIA
26	280200Z	20.4N	128.6E	54-P-02	75	90	8870	933	20/15	CIRC 40 MI DIA
27	281000Z	21.6N	130.0E	VW1-R-05	-	-	-	-	- -	DIA 40 MI,OPEN S-W
28	281530Z	22.2N	131.2E	VW1-R-05	-	-	-	-	- -	DIA 48 MI,OPEN S-W
29	282200Z	22.8N	132.4E	54-P-05	85	95	9130	962	24/08	CIRC 60 MI DIA
30	290400Z	23.7N	133.5E	54-P-04	85	72	9200	966	20/16	CIRC 60 MI DIA,OPEN W & N
31	290910Z	24.2N	134.9E	VW1-R-05	-	-	-	-	- -	CIRC 28 MI DIA,OPEN SW
32	291500Z	25.7N	136.1E	VW1-R-05	-	-	-	-	- -	DIA 38 MI,OPEN E,S & SW
33	292130Z	26.9N	138.4E	54-P-05	110	80	9200	969	13/13	WEAK WALL CLDS
34	300330Z	28.9N	141.0E	54-P-03	90	60	9440	-	18/12	OVAL 25 MI NE-SW
35	301100Z	32.0N	145.4E	VW1-P-U	-	-	-	-	- -	VERY DIFFUSE
36	301545Z	32.7N	145.5E	VW1-P-25	-	-	-	-	- -	VERY DIFFUSE

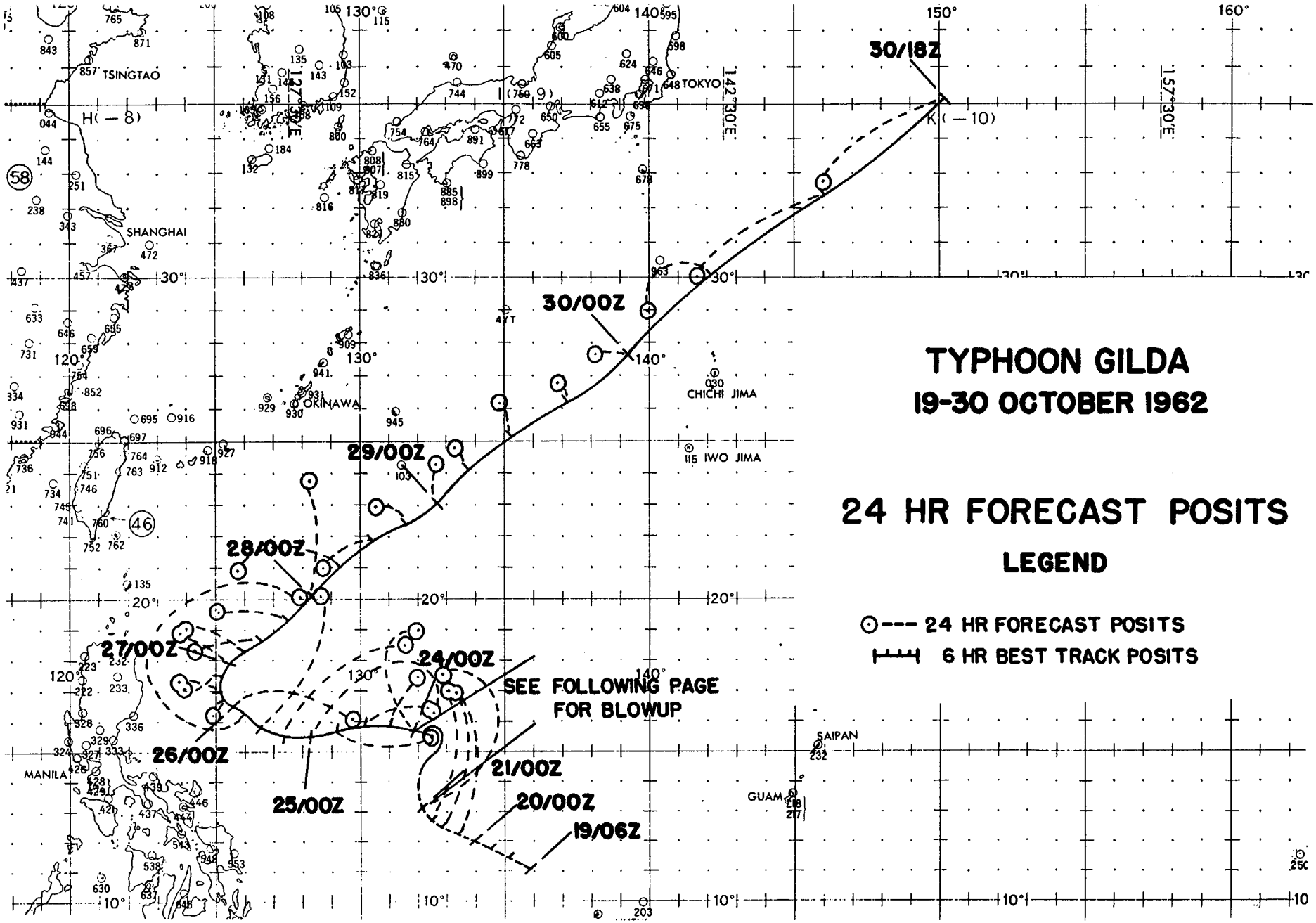
TYPHOON GILDA 19-30 OCT 1962
POSITION AND FORECAST VERIFICATION DATA

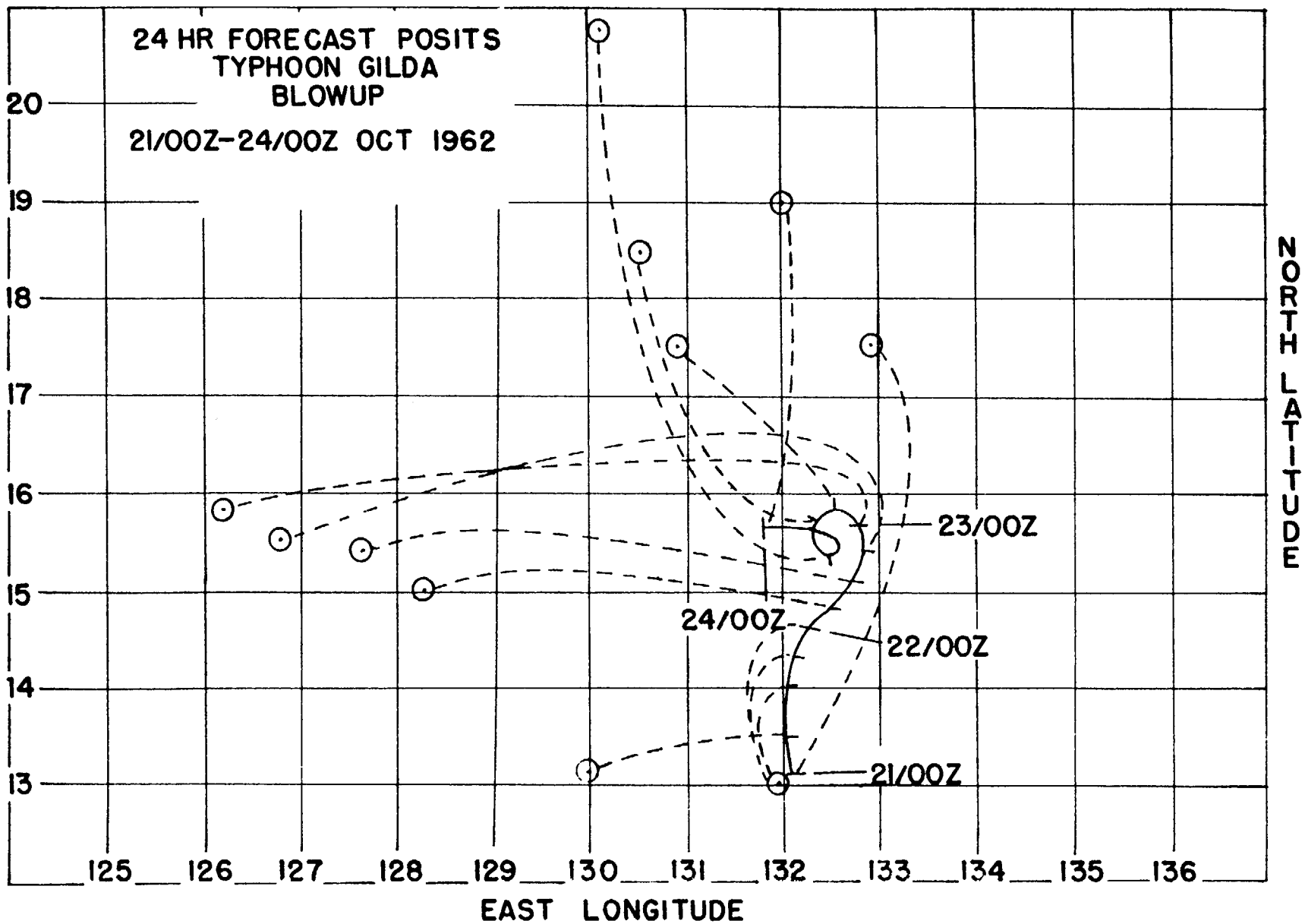
DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DISTANCE	48 HR. ERROR DEG. DISTANCE
190600Z	11.1N	135.8E	------	------
191200Z	11.4N	135.1E	------	------
191800Z	11.7N	134.5E	------	------
200000Z	12.0N	133.9E	------	------
200600Z	12.2N	133.4E	------	------
201200Z	12.4N	132.8E	------	------
201800Z	12.7N	132.4E	------	------
210000Z	13.1N	132.1E	------	------
210600Z	13.5N	132.0E	------	------
211200Z	14.0N	132.0E	------	------
211800Z	14.3N	132.2E	------	------
220000Z	14.6N	132.3E	------	------
220600Z	14.8N	132.5E	------	------
221200Z	15.1N	132.7E	------	------
221800Z	15.4N	132.8E	------	------
230000Z	15.6N	132.8E	------	------
230600Z	15.8N	132.5E	318-137	------
231200Z	15.6N	132.3E	330-193	------
231800Z	15.3N	132.4E	339-347	------
240000Z	15.6N	131.8E	003-204	------
240600Z	15.8N	131.0E	031-113	354-377
241200Z	15.8N	130.1E	072-132	005-470
241800Z	15.6N	129.2E	092-190	022-723
250000Z	15.5N	128.4E	078-242	029-525
250600Z	15.5N	127.4E	053-293	035-480
251200Z	15.8N	126.5E	026-294	056-405
251800Z	16.3N	126.0E	027-264	076-383
260000Z	16.5N	125.6E	098-244	063-457
260600Z	16.8N	125.3E	216-44	046-524
261200Z	17.0N	125.2E	282-83	035-655
261800Z	17.5N	125.2E	250-77	036-576

TYPHOON GILDA 19-30 OCT 1962 (CONT'D)
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DISTANCE	48 HR. ERROR DEG. DISTANCE
270000Z	17.9N	125.6E	298-113	073-235
270600Z	18.3N	126.0E	291-122	300-230
271200Z	18.6N	126.6E	265-135	279-218
271800Z	19.3N	127.5E	277-137	264-262
280000Z	20.1N	128.4E	360-222	278-290
280600Z	21.0N	129.3E	268-190	273-318
281200Z	21.8N	130.4E	240-96	260-380
281800Z	22.4N	131.7E	300-68	268-330
290000Z	23.0N	132.7E	360-69	281-247
290600Z	24.1N	133.8E	330-52	291-208
291200Z	25.2N	135.2E	345-65	270-95
291800Z	26.2N	137.2E	338-38	027-89
300000Z	27.6N	139.3E	270-71	019-135
300600Z	30.0N	142.2E	244-129	294-55
301200Z	32.3N	146.1E	238-270	272-63
301800Z	35.2N	150.2E	236-263	232-185

AVERAGE 24 HOUR ERROR 158.0 MI
AVERAGE 48 HOUR ERROR 330.2 MI


TYPHOON GILDA
19-30 OCTOBER 1962
24 HR FORECAST POSITS
LEGEND
24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
SEE FOLLOWING PAGE FOR BLOWUP
30/18Z
30/00Z
29/00Z
28/00Z
27/00Z
26/00Z
25/00Z
24/00Z
21/00Z
20/00Z
19/06Z
TSINGTAO
SHANGHAI
OKINAWA
TOKYO
CHICHI JIMA
IWO JIMA
MANILA
SAIPAN
GUAM
H(-8)
I(760 9)
K(-10)
142°30'E
157°30'E


24 HR FORECAST POSITS
TYPHOON GILDA
BLOWUP
21/00Z-24/00Z OCT 1962
20
19
18
17
16
15
14
13
125
126
127
128
129
130
131
132
133
134
135
136
EAST LONGITUDE
NORTH LATITUDE
23/00Z
24/00Z
22/00Z
21/00Z