TYPHOON LOLA - 080600Z to 191800Z OCTOBER

I. DATA

A. Statistics

1. Calendar days of tropical warning - 11 3/4
2. Calendar days of typhoon intensity - 5¼
3. Total distance traveled during tropical warning period - 2376 mi.

B. Characteristics as a typhoon

1. Minimum observed SLP - 945mb, 170400Z
2. Minimum observed 700mb height - 2609m, 170400Z
3. Max radius of SFC circulation - 300 mi.
4. Max surface winds - 130 kts

II. DEVELOPMENT

A. Initial impetus - Fracture of polar trough with subsequent intensification of outdraft at 200mb over surface vortex

B. Initial surface vortex

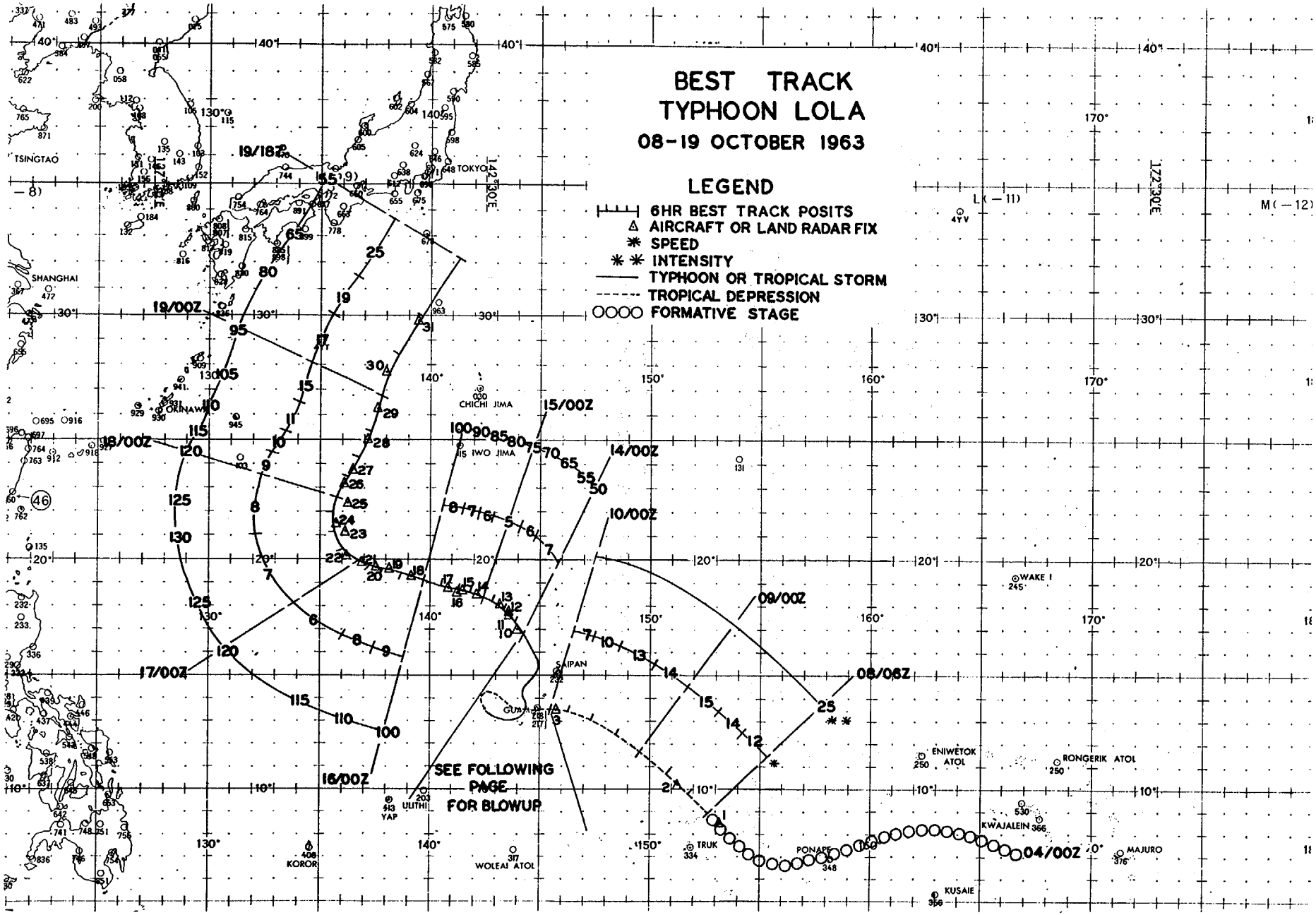
1. Junction vortex at 040000Z
2. Surface pressure less than 1008mb

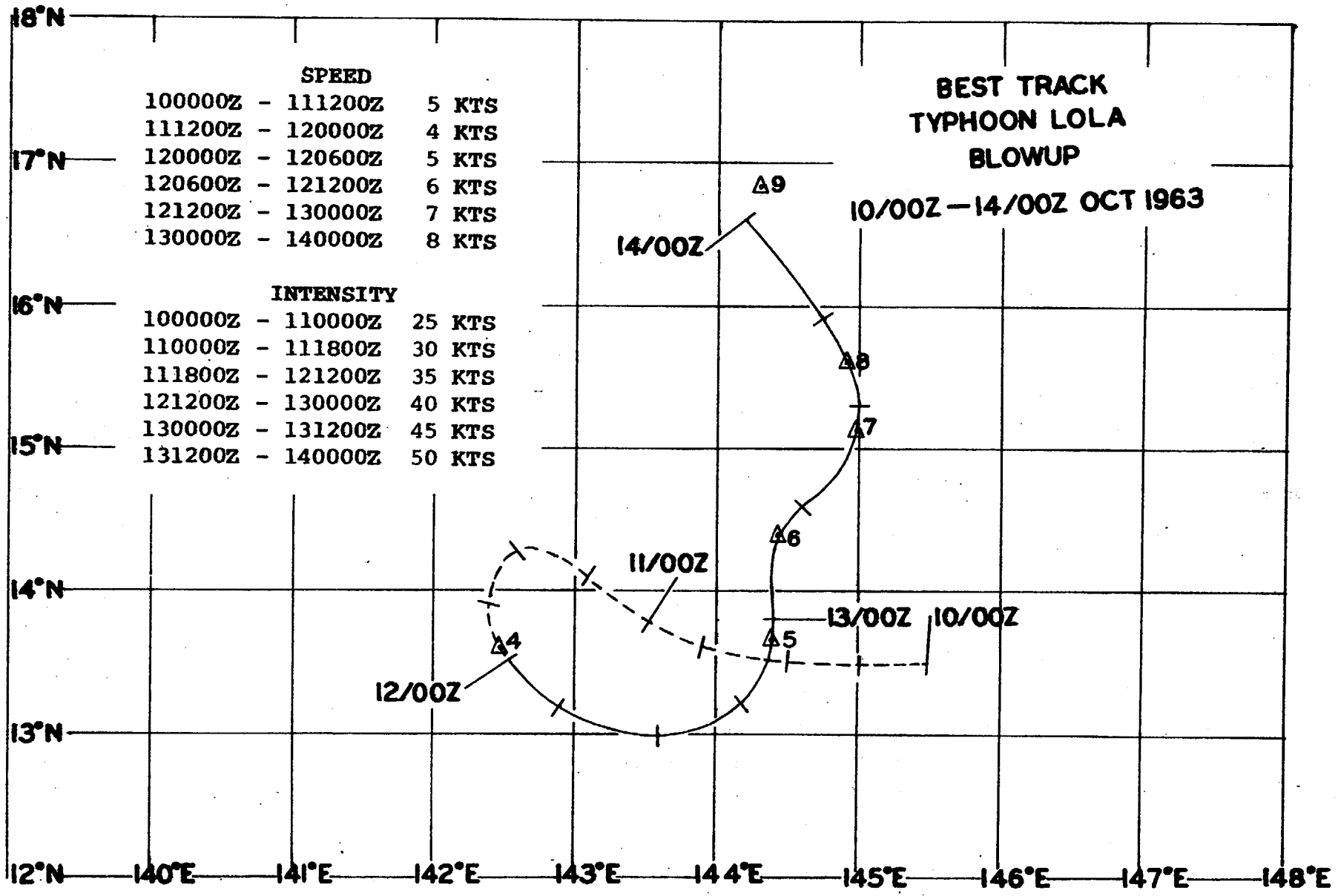
C. Zenith flow at 200mb

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

III. FINAL DISPOSITION

A. Became extratropical


BEST TRACK
TYPHOON LOLA
08-19 OCTOBER 1963
LEGEND
6HR 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
TOKYO
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
KUSAIE
KWAJALEIN
ENIWETOK ATOL
RONGERIK ATOL
WAKE I
MAJURO
19/18Z
19/00Z
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
10/00Z
09/00Z
08/06Z
04/00Z


BEST TRACK
TYPHOON LOLA
BLOWUP
10/00Z—14/00Z OCT 1963
SPEED
100000Z - 111200Z 5 KTS
111200Z - 120000Z 4 KTS
120000Z - 120600Z 5 KTS
120600Z - 121200Z 6 KTS
121200Z - 130000Z 7 KTS
130000Z - 140000Z 8 KTS
INTENSITY
100000Z - 110000Z 25 KTS
110000Z - 111800Z 30 KTS
111800Z - 121200Z 35 KTS
121200Z - 130000Z 40 KTS
130000Z - 131200Z 45 KTS
131200Z - 140000Z 50 KTS
18°N
17°N
16°N
15°N
14°N
13°N
12°N
140°E
141°E
142°E
143°E
144°E
145°E
146°E
147°E
148°E
14/00Z
11/00Z
12/00Z
13/00Z
10/00Z
4
5
6
7
8
9

LAND RADAR AND AIRCRAFT FIXES - TYPHOON LOLA

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 080255Z	08.5N	153.1E	VW1-P-05	25	-	-	998	-	- -	HVY WEA ALL QUADS
2 082320Z	10.2N	151.2E	VW1-P-U	17	-	-	1003	-	- -	NO RDR PRESENTATION
3 092210Z	13.5N	145.7E	VW1-P-U	-	-	-	-	-	- -	---
4 112300Z	13.4N	142.5E	VW1-P-U	30	-	-	1000	-	- -	---
5 122235Z	13.6N	144.4E	VW1-P-05	35	-	-	994	-	- -	ELLIP 100 MI N-S,60 MI E-W
6 130400Z	14.5N	144.4E	56-P-02	45	40	3051	998	1000	10/08	FEEDER BAND N
7 131100Z	15.1N	145.0E	VW1-P-10	-	-	-	-	-	- -	---
8 131530Z	15.6N	144.9E	VW1-P-U	-	-	-	-	-	- -	---
9 132224Z	16.8N	144.3E	56-P-03	45	32	3005	1004	994	13/11	DIFFUSE CNTR 80-100 MI DIA
10 140400Z	17.0N	143.9E	56-P-03	50	43	2954	987	985	16/12	DIFFUSE CNTR 80 MI DIA
11 140930Z	17.5N	143.5E	VW1-P-02	-	-	3002	984	-	15/09	CIRC 56 MI DIA,OPEN E, WALL CLDS 4 MI THICK
12 141530Z	17.6N	143.5E	VW1-P-15	-	-	2692	-	-	14/-	ELLIP 80 MI N-S,30 MI E-W
13 142200Z	18.1N	143.2E	56-P-02	50	62	2941	984	986	12/11	LGT OCNL MOD RAIN IN EYE
14 150400Z	18.5N	142.2E	56-P-05	65	53	2890	979	979	14/12	CIRC 15 MI DIA,CLSD,MOD RAIN IN EYE
15 150935Z	18.7N	141.5E	VW1-R-05	-	-	-	-	-	- -	CIRC 9 MI DIA,HVY WALL CLDS ALL QUADS

*Computed

LAND RADAR AND AIRCRAFT FIXES - TYPHOON LOLA (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
16 151530Z	18.6N	141.2E	VW1-R-03	-	-	-	-	-	- -	CIRC 36 MI DIA,FEEDER BANDS ALL QUADS
17 152200Z	18.8N	140.8E	56-P-05	80	90	2798	958	968	17/14	CIRC 50 MI DIA,OPEN N,WALL CLDS 10 MI THICK,WND EYE 10 MI DIA
18 160400Z	19.3N	139.1E	56-P-10	85	80	2728	958	958	18/14	CIRC 40 MI DIA,CLSD,WND EYE 15 MI DIA
19 161000Z	19.6N	138.2E	VW1-R-05	-	-	-	-	-	- -	CIRC 38 MI DIA,CLSD
20 161530Z	19.7N	137.5E	VW1-R-05	-	-	-	-	-	- -	OVAL 36 MI NW-SE,33 MI NE-SW
21 162200Z	19.9N	136.9E	56-P-02	115	-	2643	-	948	19/18	CIRC 30 MI DIA,OPEN N & S
22 170400Z	20.2N	136.2E	56-P-12	150	-	2609	-	945	19/16	CIRC 40 MI DIA,CLSD
23 171020Z	21.1N	136.2E	VW1-R-10	-	-	-	-	-	- -	CIRC 60 MI DIA,OPEN E
24 171535Z	21.5N	135.7E	VW1-R-10	-	-	-	-	-	- -	ELLIP 64 MI N-S,51 MI E-W
25 172200Z	22.3N	136.1E	56-P-01	50	80	2621	954	948	16/14	CIRC 70 MI DIA,CLSD
26 180400Z	23.1N	136.1E	56-P-03	125	110	2624	956	949	16/13	CIRC 70 MI DIA,CLSD
27 181000Z	23.7N	136.6E	VW1-R-10	-	-	-	-	-	- -	ELLIP 66 MI N-S,41 MI E-W, INTENSE FEEDER BANDS N & W
28 181530Z	25.0N	137.1E	VW1-R-10	-	-	-	-	-	- -	CIRC 53 MI DIA
29 182200Z	26.3N	137.7E	56-P-02	95	-	2707	965	956	17/14	ELLIP 55 MI ENE-WSW,40 MI SSE-NNW

*Computed

LAND RADAR AND AIRCRAFT FIXES - TYPHOON LOLA (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
30 190400Z	27.8N	138.0E	56-P-02	90	-	2734	963	960	17/12	CIRC,WALL CLDS NW QUAD
31 191000Z	29.8N	139.6E	VW1-R-10	-	-	-	-	-	- -	CNTR VERY DIFFUSED,NO RDR EYE

*Computed

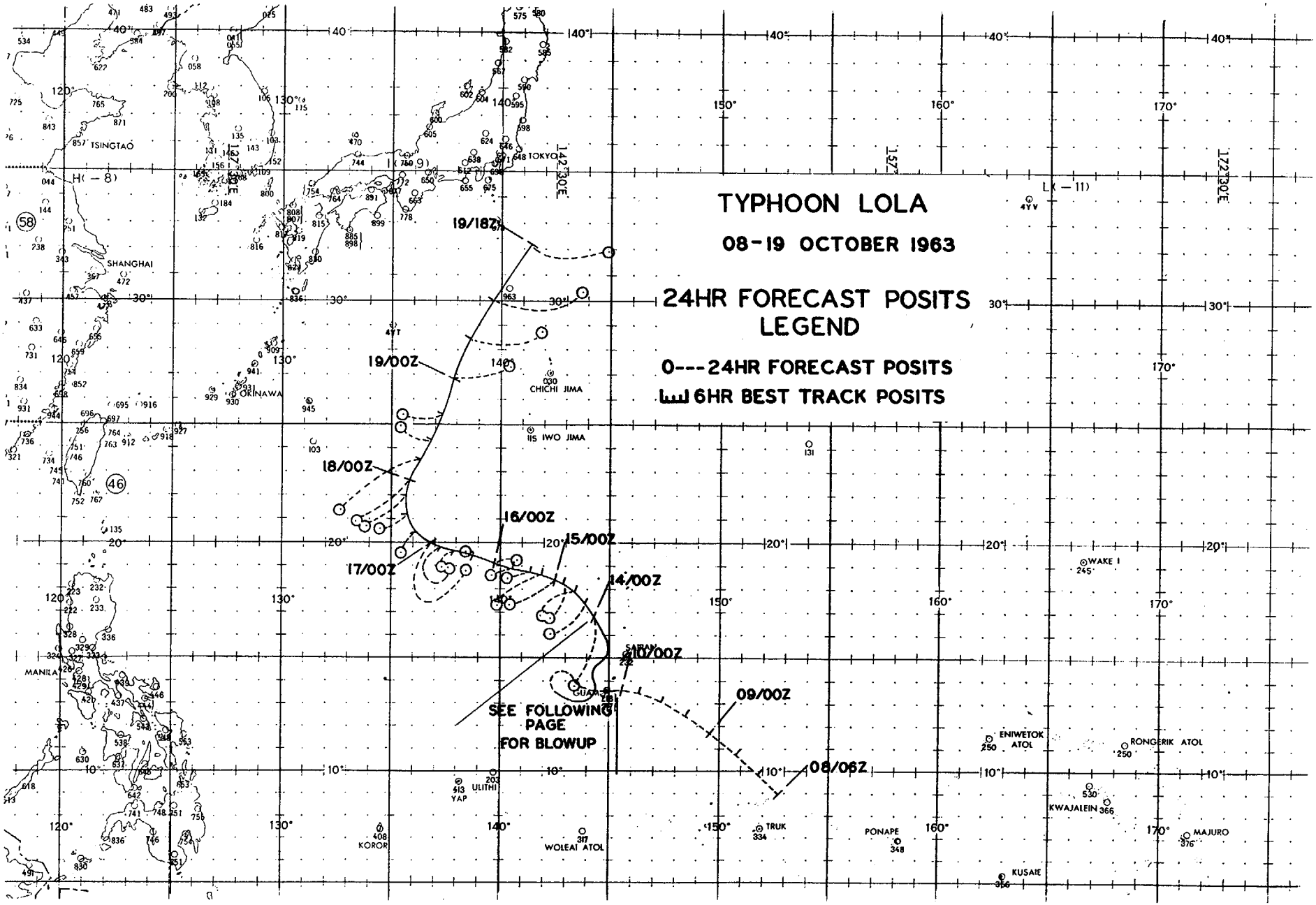
TYPHOON LOLA 08 OCT-19 OCT 1963
POSITION AND FORECAST VERIFICATION DATA

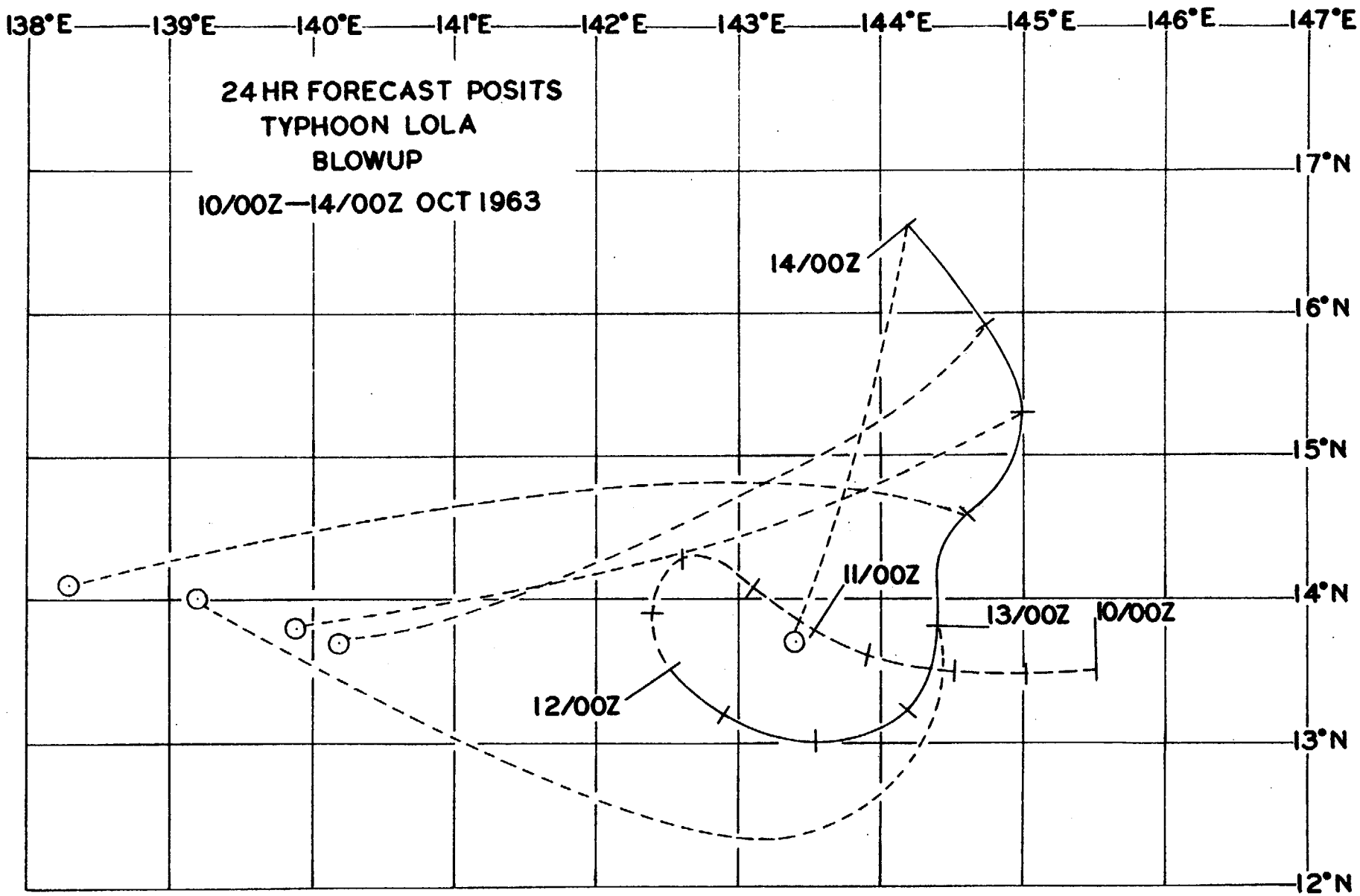
DTG	STORM POSITION LAT.	LONG	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
080600Z	08.9N	152.7E	------	------
081200Z	09.8N	151.8E	------	------
081800Z	10.7N	150.7E	------	------
090000Z	11.6N	149.5E	------	------
090600Z	12.4N	148.4E	------	------
091200Z	13.0N	147.2E	------	------
091800Z	13.4N	146.2E	------	------
100000Z	13.5N	145.5E	------	------
100600Z	13.5N	145.0E	------	------
101200Z	13.5N	144.5E	------	------
101800Z	13.6N	143.9E	------	------
110000Z	13.8N	143.5E	------	------
110600Z	14.1N	143.1E	------	------
111200Z	14.3N	142.6E	------	------
111800Z	13.9N	142.4E	------	------
120000Z	13.5N	142.5E	------	------
120600Z	13.2N	142.9E	------	------
121200Z	13.0N	143.5E	------	------
121800Z	13.2N	144.2E	------	------
130000Z	13.8N	144.4E	272-307	------
130600Z	14.6N	144.6E	265-370	------
131200Z	15.3N	145.0E	253-318	------
131800Z	15.9N	144.7E	242-299	------
140000Z	16.6N	144.2E	196-180	------
140600Z	17.2N	143.8E	231-114	254-520
141200Z	17.8N	143.4E	236-102	230-347
141800Z	18.2N	142.9E	203-96	228-368
150000Z	18.4N	142.4E	240-130	202-268
150600Z	18.6N	141.9E	234-137	233-209
151200Z	18.7N	141.3E	250-60	240-228
151800Z	18.9N	140.5E	248-55	236-171

TYPHOON LOLA 08 OCT-19 OCT 1963
POSITION AND FORECAST VERIFICATION DATA (CONT'D)

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
160000Z	19.1N	139.7E	079-56	257-192
160600Z	19.4N	138.7E	281-17	247-170
161200Z	19.7N	137.9E	220-61	241-110
161800Z	19.8N	137.3E	170-51	246-105
170000Z	19.9N	136.7E	124-124	160-28
170600Z	20.4N	136.1E	214-66	252-100
171200Z	21.1N	135.8E	238-78	246-150
171800Z	21.9N	135.8E	233-128	229-168
180000Z	22.7N	135.9E	233-186	175-208
180600Z	23.5N	136.3E	237-240	243-355
181200Z	24.4N	136.8E	290-87	238-358
181800Z	25.4N	137.3E	267-104	238-435
190000Z	26.8N	137.8E	076-135	235-462
190600Z	28.4N	138.5E	083-180	239-500
191200Z	29.9N	139.7E	082-210	280-26
191800Z	32.1N	141.2E	093-186	218-145

AVERAGE 24 HOUR ERROR 146 MI
AVERAGE 48 HOUR ERROR 244 MI


TYPHOON LOLA
08-19 OCTOBER 1963
24HR FORECAST POSITS
LEGEND
0---24HR FORECAST POSITS
6HR BEST TRACK POSITS
19/18Z
19/00Z
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
10/00Z
09/00Z
08/06Z
SEE FOLLOWING PAGE FOR BLOWUP
TSINGTAO
SHANGHAI
OKINAWA
TOKYO
CHICHI JIMA
IIS IWO JIMA
MANILA
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
KUSAIE
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
MAJURO
WAKE I
142°30'E
157°
172°30'E


24 HR FORECAST POSITS
TYPHOON LOLA
BLOWUP
10/00Z—14/00Z OCT 1963
138°E
139°E
140°E
141°E
142°E
143°E
144°E
145°E
146°E
147°E
17°N
16°N
15°N
14°N
13°N
12°N
14/00Z
11/00Z
13/00Z
10/00Z
12/00Z