TYPHOON ORA - 231200Z to 291200Z OCTOBER

I. DATA

A. Statistics

1. Calendar days of tropical warning - 6¼
2. Calendar days of typhoon intensity - 2¼
3. Total distance traveled during tropical warning period - 1194 mi

B. Characteristics as a typhoon

1. Minimum observed SLP - 984mb, 280400Z
2. Minimum observed 700mb height - 2929m, 280400Z
3. Max radius of SFC circulation - 300 mi
4. Max surface winds - 80 kts

II. DEVELOPMENT

A. Initial impetus - Northeastward movement of intensifying anticyclone at 200mb placing surface vortex under favorable divergent flow

B. Initial surface vortex

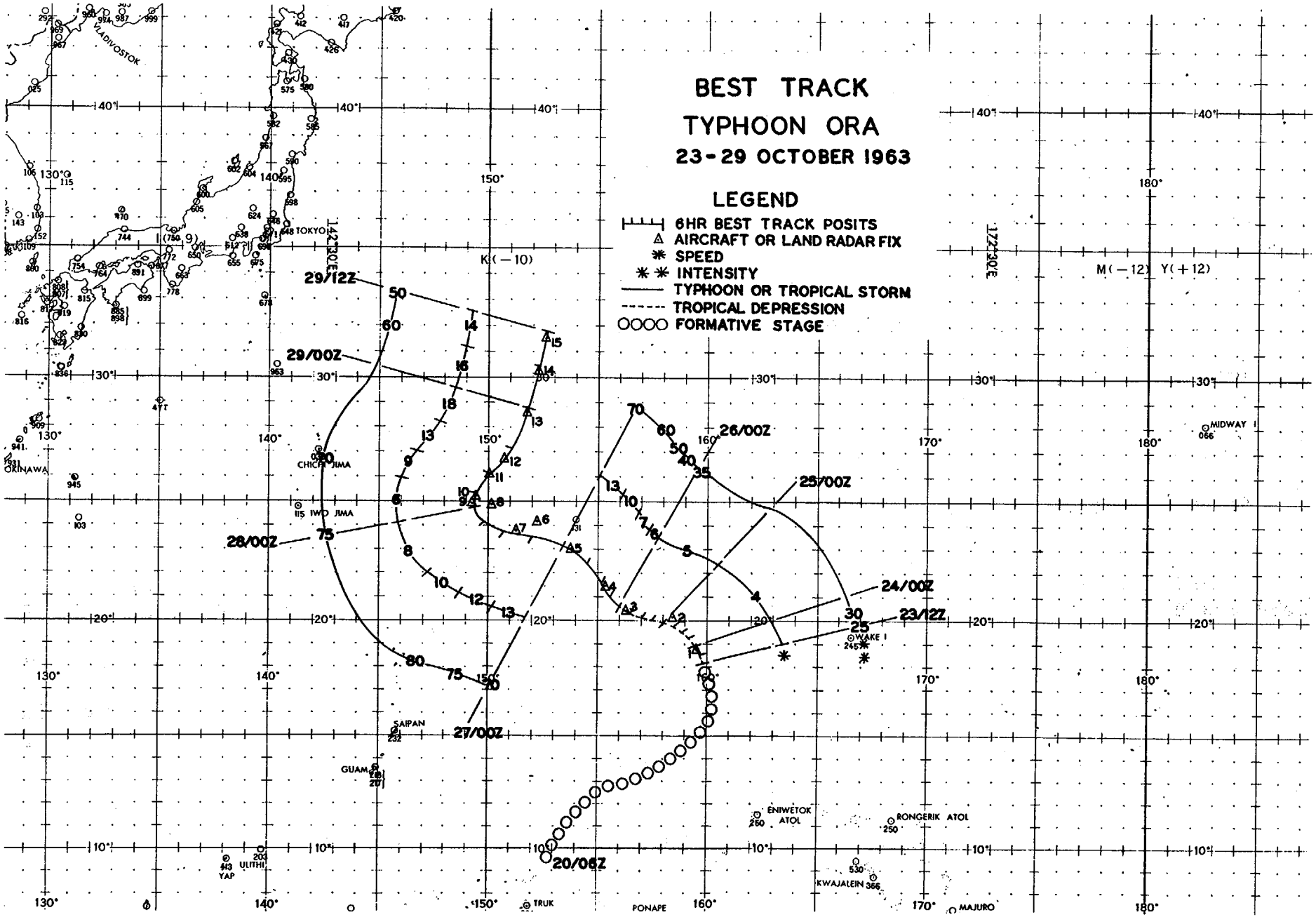
1. Junction vortex at 200600Z
2. Surface pressure less than 1005mb

C. Zenith flow at 200mb

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

III. FINAL DISPOSITION

A. Became extratropical


BEST TRACK
TYPHOON ORA
23-29 OCTOBER 1963
LEGEND
6HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
VLADIVOSTOK
TOKYO
OKINAWA
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
YAP
ULITHI
TRUK
PONAPE
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
MAJURO
WAKE I
MIDWAY I
K(−10)
M(−12)
Y(+12)
142°30'E
172°30'E
29/12Z
29/00Z
28/00Z
27/00Z
20/06Z
26/00Z
25/00Z
24/00Z
23/12Z

LAND RADAR AND AIRCRAFT FIXES - TYPHOON ORA

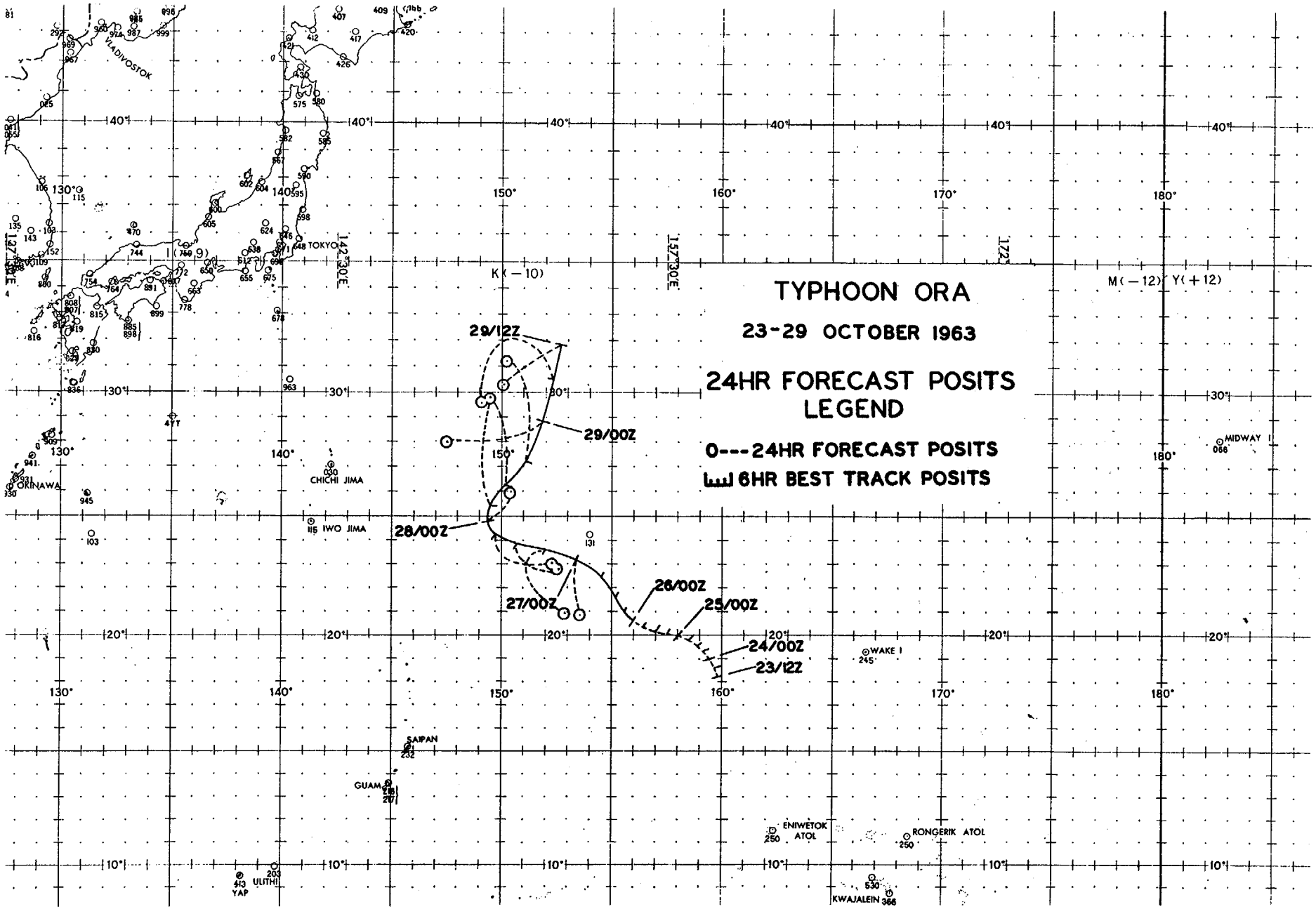
FIX NO/TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	RECON MIN SLP MBS	JTWC MIN SLP *MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
1 232248Z	18.9N	159.5E	VW1-P-10	08	-	-	997	-	- -	NO ORGANIZATION
2 250005Z	20.1N	158.3E	VW1-P-U	-	-	-	999	-	- -	WND CNTR 42MI DIA,POOR RDR PRES
3 252115Z	20.4N	156.3E	VW1-P-10	35	-	-	991	-	- -	WND EYE 4MI DIA,WELL DEV FEEDER BANDS
4 260930Z	21.5N	155.4E	VW1-P-05	20	-	3018	991	994	15/-	CIRC 20MI DIA,OPEN NW SEMI, WALL CLDS 5MI THICK
5 262200Z	23.0N	153.8E	56-P-05	70	40	3054	980	989	14/13	CIRC 30MI DIA,OPEN S QUAD
6 270400Z	24.1N	152.2E	56-P-05	75	50	2951	990	986	16/14	CIRC 20 MI DIA,CLSD
7 270945Z	23.9N	151.2E	VW1-R-10	-	-	-	-	-	- -	CIRC 20 MI DIA,OPEN SW QUAD
8 271530Z	24.8N	150.1E	VW1-R-10	-	-	-	-	-	- -	CNTR POORLY DEFINED
9 272200Z	24.8N	149.2E	56-P-05	40	40	2947	992	986	16/13	NO VISIBLE EYE
10 280400Z	25.3N	149.5E	56-P-08	50	50	2929	981	984	14/11	CIRC 30 MI DIA
11 281100Z	26.1N	150.0E	VW1-R-05	-	-	-	-	-	- -	OVAL 36MI NE/SW,28MI NW/SE, OPEN E,CLDS FORMING IN EYE
12 281530Z	26.7N	150.6E	VW1-R-10	-	-	-	-	-	- -	DISSIPATING RAPIDLY
13 282239Z	28.6N	151.8E	56-P-05	75	50	2963	981	984	19/15	WALL CLDS N QUAD
14 290515Z	30.3N	152.3E	56-P-15	60	-	2947	984	987	12/08	NO VISIBLE EYE
15 291100Z	31.6N	152.8E	VW1-R-10	-	-	-	-	-	- -	NO RADAR EYE

*Computed

TYPHOON ORA 23 OCT-29 OCT 1963
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
231200Z	18.2N	159.9E	------	------
231800Z	18.6N	159.7E	------	------
240000Z	18.9N	159.4E	------	------
240600Z	19.2N	159.2E	------	------
241200Z	19.5N	158.9E	------	------
241800Z	19.7N	158.4E	------	------
250000Z	19.9N	158.0E	------	------
250600Z	20.0N	157.5E	------	------
251200Z	20.2N	157.0E	------	------
251800Z	20.3N	156.5E	------	------
260000Z	20.6N	156.0E	------	------
260600Z	21.0N	155.6E	------	------
261200Z	21.6N	155.2E	------	------
261800Z	22.3N	154.5E	------	------
270000Z	23.1N	153.3E	173-141	------
270600Z	23.6N	152.0E	163-165	------
271200Z	23.9N	150.8E	120-125	------
271800Z	24.2N	149.7E	118-161	------
280000Z	24.9N	149.3E	046-87	154-244
280600Z	25.4N	149.6E	001-272	170-255
281200Z	26.2N	150.1E	351-227	178-111
281800Z	27.2N	151.1E	348-247	204-161
290000Z	28.9N	151.9E	257-231	280-174
290600Z	30.5N	152.3E	254-161	016-278
291200Z	31.8N	152.9E	238-167	026-333

AVERAGE 24 HOUR ERROR 180 MI
AVERAGE 48 HOUR ERROR 222 MI


TYPHOON ORA
23-29 OCTOBER 1963
24HR FORECAST POSITS
LEGEND
0---24HR FORECAST POSITS
6HR BEST TRACK POSITS
29/12Z
29/00Z
28/00Z
27/00Z
26/00Z
25/00Z
24/00Z
23/12Z
K(-10)
M(-12)
Y(+12)
VLADIVOSTOK
TOKYO
ORINAWA
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
YAP
ULITHI
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
WAKE I
MIDWAY I
142°30'E
157°30'E
172°