TYPHOON JUDY - 300000 SEPTEMBER to 041200Z OCTOBER

I. DATA

A. Statistics

1. Calendar days of tropical warning - 5
2. Calendar days of typhoon intensity - 4¼
3. Total distance traveled during tropical warning period - 1326 mi.

B. Characteristics as a typhoon

1. Minimum observed SLP - 917mb, 030405Z
2. Minimum observed 700mb height 2341m, 030405Z
3. Max radius of SFC circulation - 400 mi
4. Max surface winds - 150 kts

II. DEVELOPMENT

A. Initial impetus - Juxtaposition of polar trough with subsequent fracture and formation of anticyclone over vortex at 200mb

B. Initial surface vortex

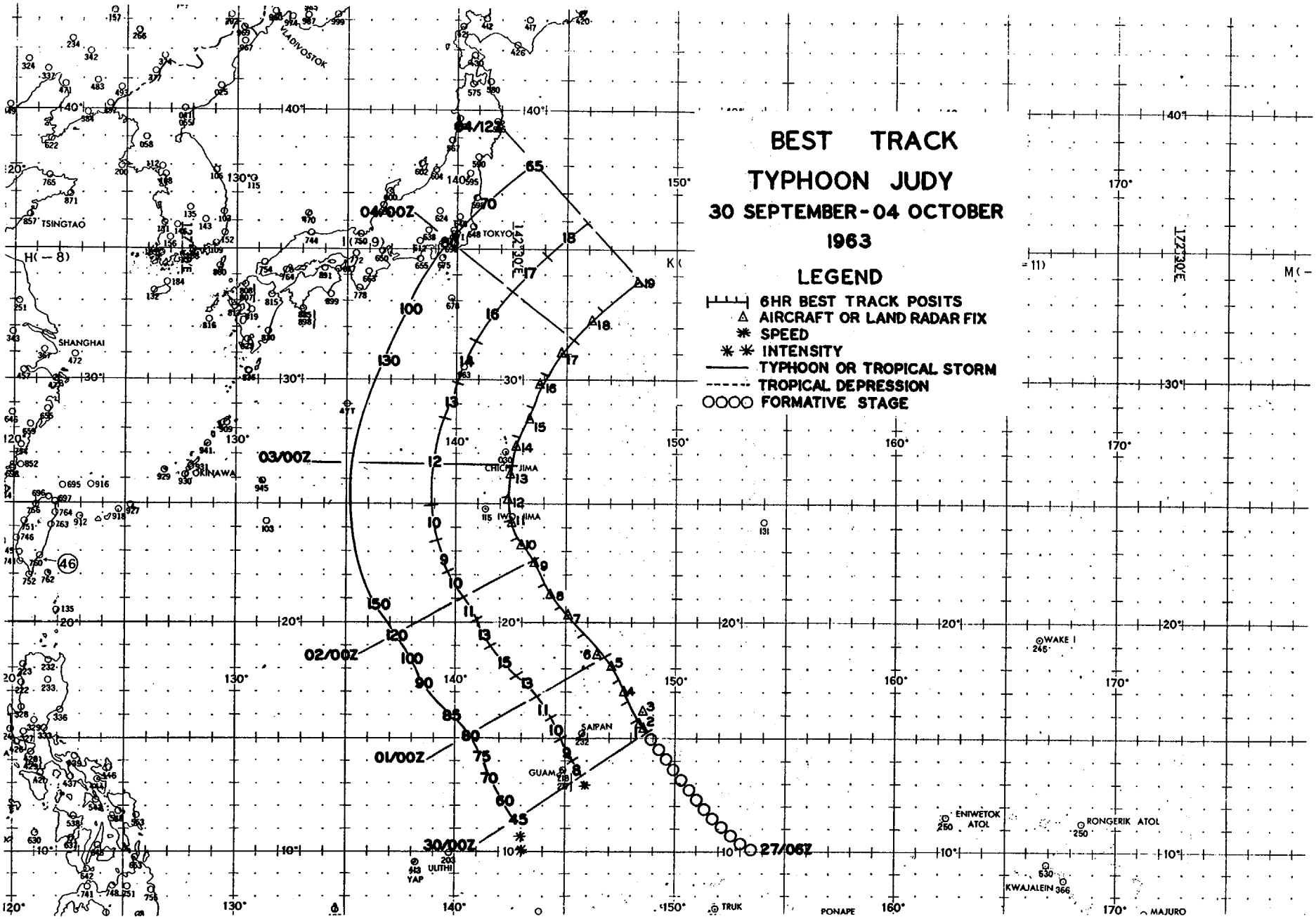
1. Junction vortex at 270600Z
2. Surface pressure less than 1008mb

C. Zenity flow at 200mb

1. Relative position surface vortex South quadrant of anticyclone
2. Wind direction over vortex - E

III. FINAL DISPOSITION

A. Became extratropical


BEST TRACK
TYPHOON JUDY
30 SEPTEMBER-04 OCTOBER
1963
LEGEND
6HR BEST TRACK POSITS
AIRCRAFT OR LAND RADAR FIX
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
VLADIVOSTOK
TSINGTAO
SHANGHAI
OKINAWA
TOKYO
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
YAP
ULITHI
TRUK
PONAPE
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
MAJURO
WAKE I
04/00Z
03/00Z
02/00Z
01/00Z
30/00Z
27/06Z
04/12Z
142°30'E
172°30'E

LAND RADAR AND AIRCRAFT FIXES - TYPHOON JUDY

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 300130Z	15.4N	148.6E	VW1-P-10	50	-	-	994	-	- -	CIRC 12 MI DIA
2 300345Z	15.7N	148.5E	VW1-R-10	-	-	-	-	-	- -	CIRC 13 MI DIA,EXTREMELY RAPID CLD DEVELOPMENT
3 300945Z	16.2N	148.5E	VW1-P-05	70	-	-	984	-	- -	ELLIP 30 MI N-S,20 MI E-W, CLSD,WEAK S
4 301545Z	17.0N	147.8E	VW1-R-05	-	-	-	-	-	- -	CIRC 28 MI DIA,OPEN W,WALL CLDS 12 MI THICK
5 302200Z	18.2N	147.1E	56-P-05	65	40	2929	980	983	- -	CIRC 15 MI DIA,CLSD
6 010400Z	18.5N	146.5E	56-P-02	85	60	2899	978	978	17/-	CIRC 60 MI DIA,OPEN SW SEMI
7 011015Z	20.4N	145.1E	VW1-R-01	-	-	-	-	-	- -	CIRC 21 MI DIA,OPEN SW, WALL CLDS 5 MI THICK
8 011545Z	21.1N	144.4E	VW1-R-03	-	-	-	-	-	- -	CIRC 21 MI DIA,OPEN NW, WALL CLDS 6 MI THICK
9 012215Z	22.6N	143.5E	56-P-05	100	60	2615	958	947	17/15	CIRC 15 MI DIA,OPEN S & SE, LGT RW IN EYE
10 020400Z	23.2N	142.9E	56-P-03	150	120	2411	935	923	21/17	CIRC 10 MI DIA,CLSD,STRONG, GREEN CHURNING SCUM UNDER CLD
11 021000Z	24.1N	142.4E	VW1-R-02	-	-	-	-	-	- -	CIRC 8 MI DIA,CLSD WALL CLDS 6 MI THICK
12 021600Z	25.2N	142.3E	VW1-R-02	-	-	-	-	-	- -	CIRC 7 MI DIA,CLSD WALL CLDS 6 MI THICK

*Computed

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

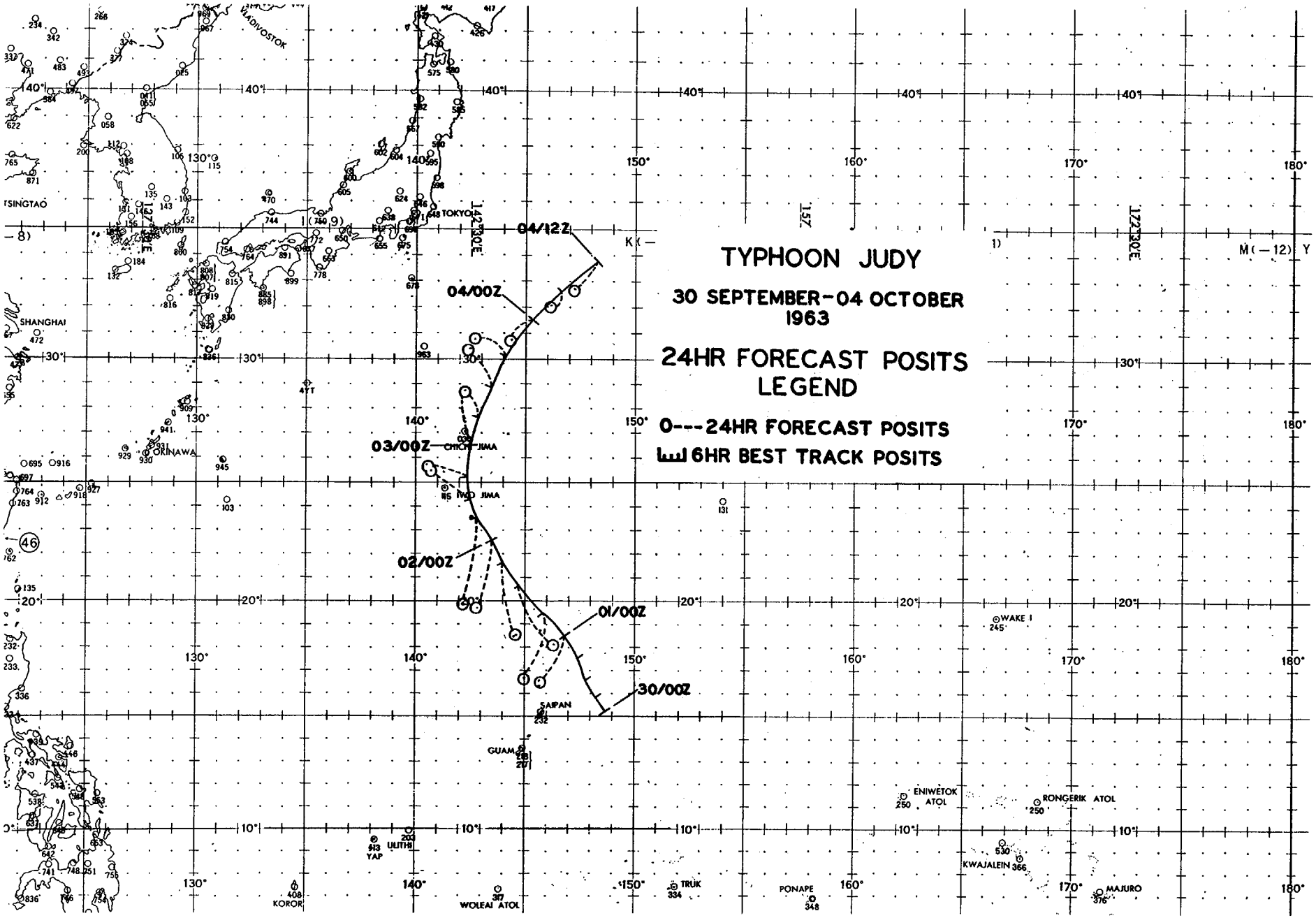
FIX NO/TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	RECON MIN SLP MBS	JTWC MIN SLP *MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
13 022200Z	26.2N	142.5E	56-P-03	150	110	2377	918	922	17/13	CIRC 10 MI DIA,CLSD,SVR TURBC IN EYE AT 700MB LVL
14 030405Z	27.3N	142.7E	56-P-03	150	95	2341	904	917	18/17	CIRC 8 MI DIA,CLSD WALL CLDS 10 MI THICK
15 031000Z	28.4N	143.4E	VW1-R-01	140	-	-	-	-	- -	CONCENTRIC,INNER EYE 6 MI DIA,OUTER EYE 25 MI DIA
16 031520Z	29.8N	143.8E	VW1-R-05	-	-	-	-	-	- -	CIRC 8 MI DIA,WALL CLDS 2-6 MI THICK
17 032210Z	31.0N	144.7E	56-P-03	75	60	2588	948	936	21/19	CIRC,POORLY DEFINED
18 040400Z	32.3N	146.1E	56-P-05	75	82	2664	949	948	24/20	CIRC,POORLY DEFINED
19 041145Z	33.9N	148.1E	VW1-P-10	-	67	2822	-	968	21/14	NO WALL CLDS,ALL CLDS STRATIFORM

*Computed

TYPHOON JUDY 30 SEP-04 OCT 1963
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HOUR ERROR DEG. DISTANCE	48 HOUR ERROR DEG. DISTANCE
300000Z	15.2N	148.7E	------	------
300600Z	15.9N	148.3E	------	------
301200Z	16.7N	147.9E	------	------
301800Z	17.6N	147.5E	------	------
010000Z	18.5N	146.8E	209-130	------
010600Z	19.5N	145.9E	199-174	------
011200Z	20.7N	144.8E	152-171	------
011800Z	21.7N	144.0E	169-187	------
020000Z	22.6N	143.4E	191-174	190-306
020600Z	23.5N	142.7E	189-214	190-344
021200Z	24.5N	142.4E	308-115	173-320
021800Z	25.3N	142.3E	283-98	196-367
030000Z	26.5N	142.5E	352-143	214-458
030600Z	27.6N	142.9E	329-84	215-529
031200Z	28.8N	143.5E	331-108	284-167
031800Z	30.1N	144.2E	299-90	261-197
040000Z	31.5N	145.3E	223-63	018-387
040600Z	32.7N	146.6E	216-46	012-312
041200Z	33.9N	148.2E	221-86	010-342

AVERAGE 24 HOUR ERROR 126 MI
AVERAGE 48 HOUR ERROR 339 MI


TYPHOON JUDY
30 SEPTEMBER-04 OCTOBER
1963
24HR FORECAST POSITS
LEGEND
0---24HR FORECAST POSITS
6HR BEST TRACK POSITS
04/12Z
04/00Z
03/00Z
02/00Z
01/00Z
30/00Z
VLADIVOSTOK
TSINGTAO
SHANGHAI
TOKYO
OKINAWA
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
ENIWETOK ATOL
KWAJALEIN
RONGERIK ATOL
MAJURO
WAKE I
127°E
142°30'E
157
172°30'E