TROPICAL CYCLONE 28 - 09/08/1800Z TO 09/22/0600Z

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 55
2. NUMBER OF WARNINGS WITH TYPHOON INTENSITY - 33
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 4499 MI

B. CHARACTERISTICS AS A TYPHOON

1. MINIMUM OBSERVED SLP - 930MBS AT 151130Z
2. MINIMUM OBSERVED 700MB HEIGHT - 2478M. AT 142225Z
3. MAXIMUM SURFACE WIND - 125 KTS (FROM BEST TRACK)
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - 500 MI

II. DEVELOPMENT

A. INITIAL IMPETUS - DEVELOPMENT OF DIVERGENCE AT 200MB LEVEL OVER SURFACE CYCLONIC CIRCULATION

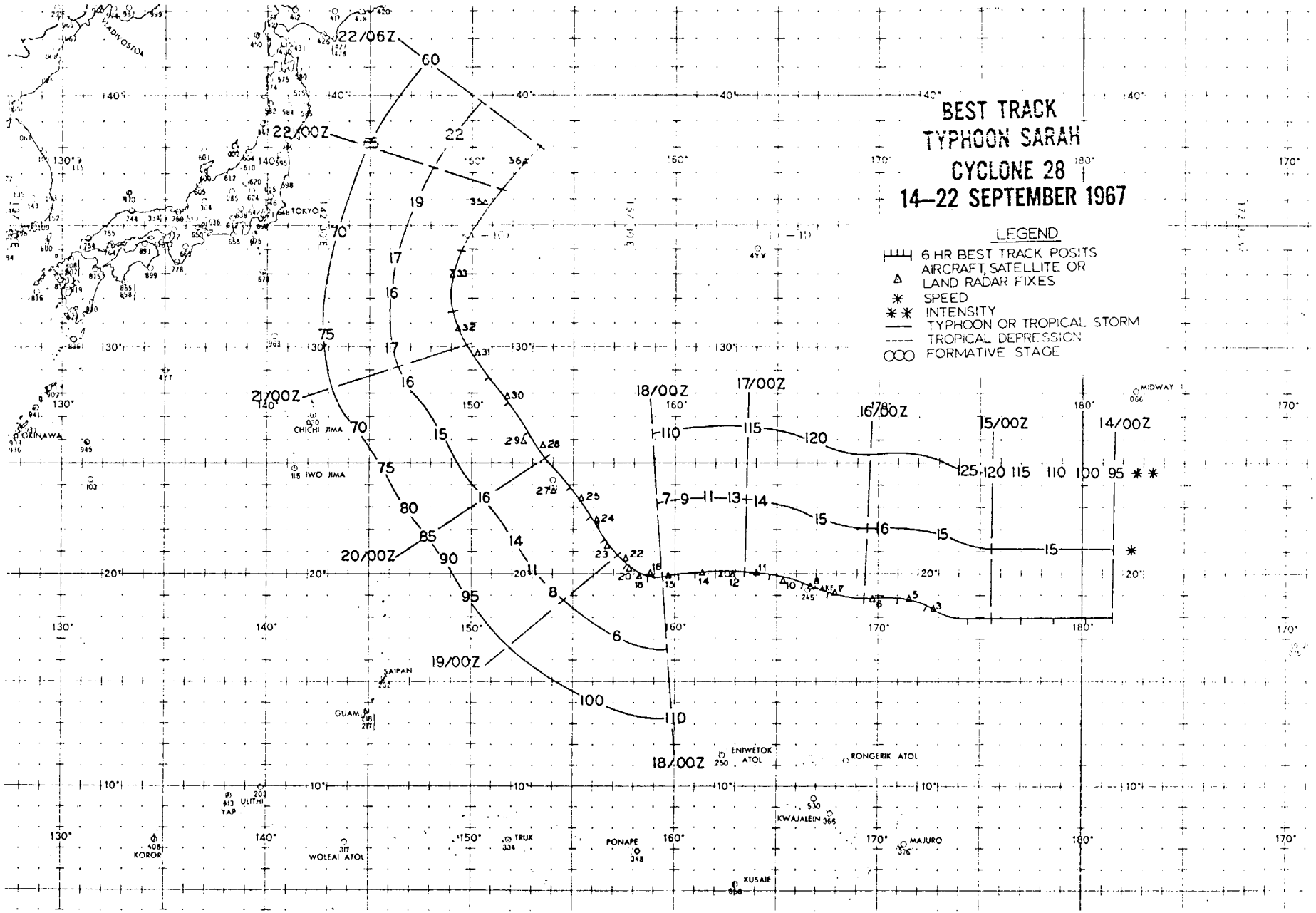
B. INITIAL SURFACE VORTEX

1. JUNCTION VORTEX AT 071800Z
2. SURFACE PRESSURE LESS THAN 1007MB

C. 200MB FLOW ABOVE SURFACE VORTEX

1. INITIAL - SOUTH
2. UPON REACHING TYPHOON INTENSITY - SOUTH

III. FINAL DISPOSITION - BECAME EXTRATROPICAL


BEST TRACK
TYPHOON SARAH
CYCLONE 28
14–22 SEPTEMBER 1967
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
22/06Z
22/00Z
21/00Z
20/00Z
19/00Z
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
VLADIVOSTOK
TOKYO
OKINAWA
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
ULITHI
YAP
KOROR
WOLEAI ATOL
TRUK
PONAPE
KUSAIE
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
MAJURO
MIDWAY

EYE FIXES CYCLONE 28

FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	OBS FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	THKNS WALL CLOUD
1	142225Z	17.9N 176.0E	54-P-P05	700MB	090	050	931	2486	18/--	CONC		40-10	08
2	150330Z	18.0N 174.3E	54-P-P05	700MB	090	100	933	2502	17/--	CIRC	----	10	10
3	151030Z	17.8N 173.2E	VW-R-P10		---	---	---	---	--/--	----			--
4	151130Z	18.4N 172.8E	VW-P-P05	700MB	090	---	930	---	17/--	CIRC	----	28	05
5	151625Z	18.9N 171.5E	VW-P-P05	700MB	075	---	936	2541	17/--	ELIP	N-S	27X20	--
6	152200Z	18.8N 169.7E	54-P-P02	700MB	---	060	940	2576	23/--	CIRC	----	18	15
7	160533Z	19.1N 167.9E	54-P-P02	700MB	085	090	934	2506	18/--	CIRC	----	15	--
8	161050Z	19.4N 166.6E	VW-R-P10	0420M	---	---	---	---	--/--	----			--
9	161110Z	19.4N 166.6E	VW-R-P05	0410M	040	035	---	---	--/--	CONC		40-12	06
10	161510Z	19.7N 165.3E	VW-R-P05	700MB	070	---	---	---	--/--	CONC		40-12	--
11	162130Z	20.0N 164.0E	54-P-P02	700MB	090	080	946	2615	16/--	CONC		45-18	15
12	170221Z	20.0N 162.5E	SLTLS	STG -	DIA --	BNDS -							
13	170300Z	20.0N 162.8E	54-P-P02	700MB	112	100	939	2548	18/--	CONC		40-15	--
14	171020Z	20.0N 161.2E	VW-P-P05	700MB	090	---	934	2619	17/10	CONC		28-14	05
15	171515Z	20.1N 160.3E	VW-P-P10	700MB	060	---	---	2606	13/--	CIRC	----	30	05
16	172200Z	20.0N 159.7E	54-P-P03	700MB	080	060	948	2606	17/--	CIRC	----	20	10
17	180345Z	20.0N 158.9E	54-P-P03	700MB	085	075	946	2600	15/--	CIRC	----	15	15
18	181000Z	20.1N 158.4E	VW-R-P--	700MB	---	---	---	---	--/--	----			--
19	181100Z	20.0N 158.3E	VW-P-P03	700MB	---	070	946	2631	16/--	CIRC	----	18	07
20	181300Z	20.0N 158.0E	VW-R-P--	700MB	---	---	---	---	--/--	----			--
21	181520Z	20.2N 157.7E	VW-P-P05	700MB	080	---	---	2643	18/--	CIRC	----	14	08
22	182200Z	20.6N 157.4E	54-P-P02	700MB	083	065	952	2658	18/--	CIRC	----	18	--
23	190300Z	21.3N 156.8E	54-P-P05	700MB	080	100	957	2704	12/--	----			--
24	191030Z	22.3N 156.0E	VW-R-P--	700MB	---	---	---	---	--/--	----			--

EYE FIXES CYCLONE 28

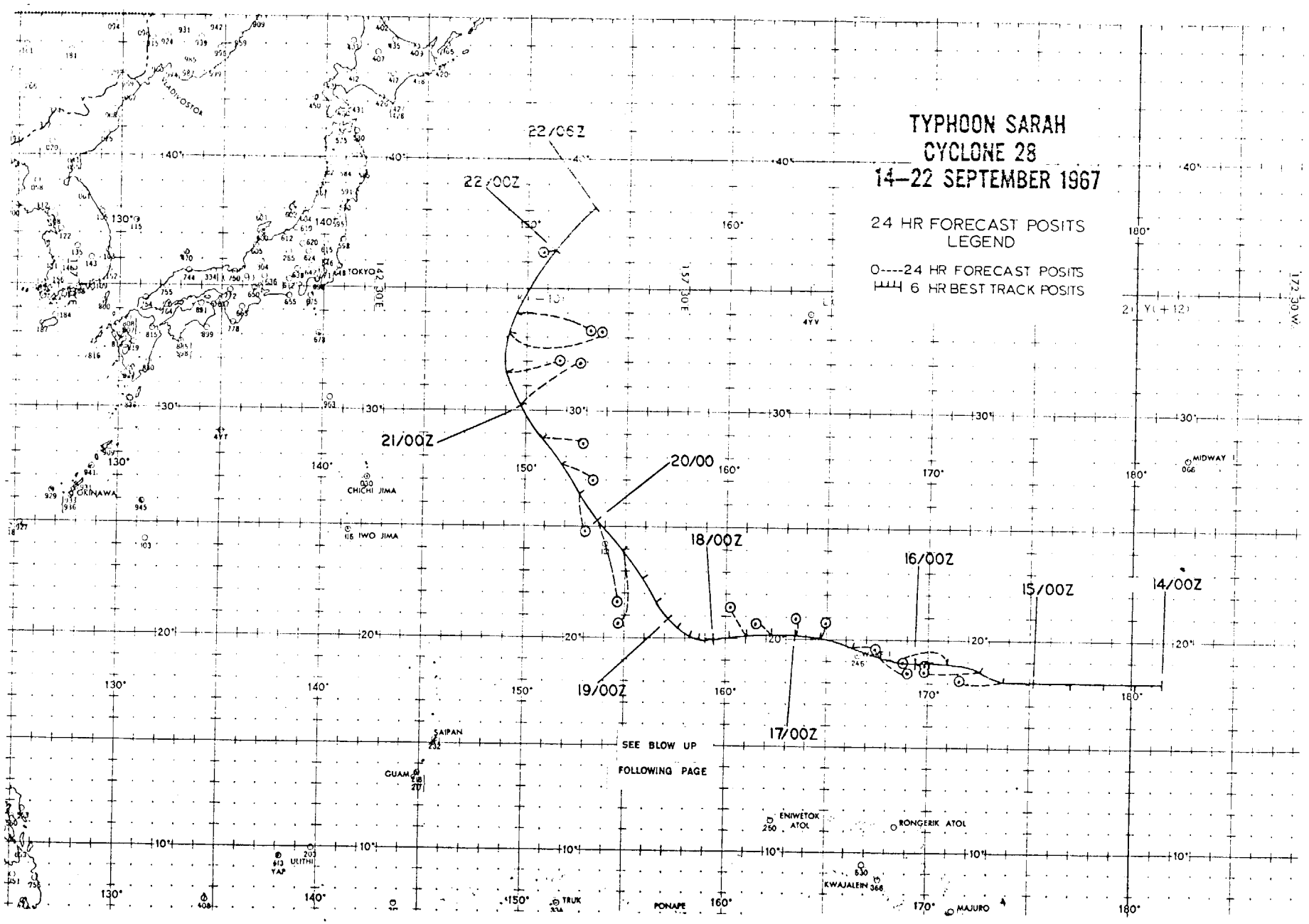
FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	THKNS WALL CLOUD
25	191050Z	22.4N 156.0E	VW-P-P03	700MB	090	---	958	2728	18/--	CIRC	----	22	05
26	191515Z	23.3N 155.3E	VW-P-P03	700MB	065	---	958	2756	18/--	CIRC	----	16	05
27	192224Z	24.4N 154.0E	54-P-P02	700MB	070	075	965	2783	20/--	ELIP	NE-SW	40X20	--
28	200228Z	25.7N 153.3E	54-P-P02	700MB	070	070	970	2835	18/--	CIRC	----	40	--
29	200258Z	26.0N 152.5E	SLTLS	STG X	DIA 04	BNDS 4							
30	201510Z	27.8N 151.8E	VW-P-P10	0310M	080	060	966	---	--/--	CIRC	----	25	05
31	202216Z	29.7N 150.1E	54-P-P10	700MB	090	070	964	2789	20/--	CIRC	----	20	--
32	210153Z	30.5N 149.5E	SLTLS	STG X	DIA 03	BNDS 3							
33	210335Z	30.9N 149.2E	54-P-P03	700MB	080	070	963	2789	20/--	CIRC	----	30	--
34	211200Z	33.0N 149.0E	VW-P-P05	0240M	070	070	968	---	--/--	----			--
35	212200Z	35.9N 150.7E	54-P-P05	700MB	080	065	967	2929	21/--	----			--
36	220323Z	37.5N 152.3E	54-P-P05	700MB	075	065	977	---	19/--	----			--

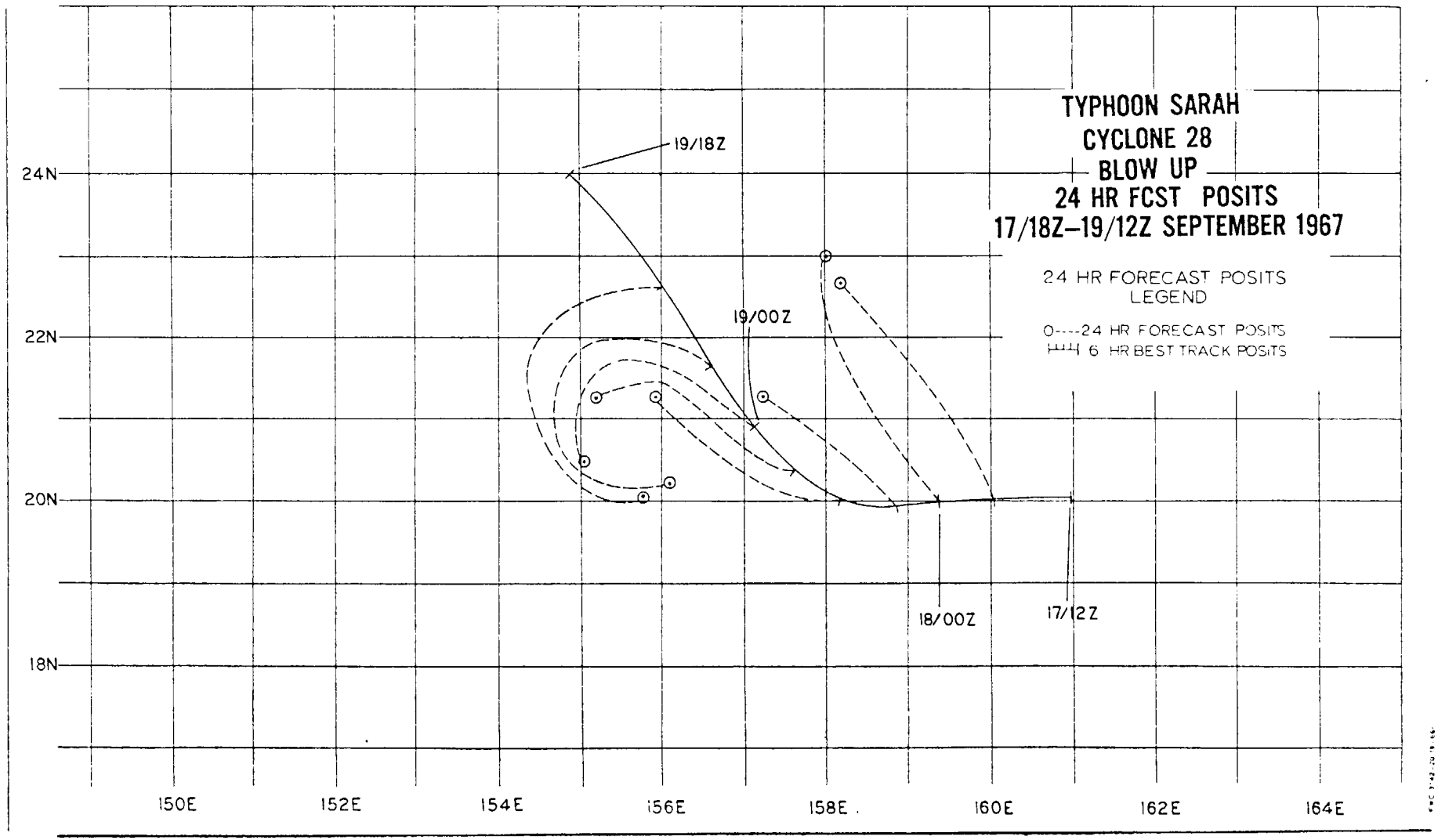
TROPICAL CYCLONE 28 -- 09/14/1200Z TO 09/22/0600Z

POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DIST.	48 HR. ERROR DEG. DIST.	72 HR. ERROR DEG. DIST.
141200Z	18.0N	178.5E	--------	--------	--------
141800Z	18.0N	177.0E	--------	--------	--------
150000Z	18.0N	175.5E	--------	--------	--------
150600Z	18.1N	173.9E	--------	--------	--------
151200Z	18.6N	172.5E	268-0144	--------	--------
151800Z	18.9N	171.0E	270-0132	--------	--------
160000Z	18.9N	169.3E	120-0030	--------	--------
160600Z	19.1N	167.8E	114-0072	--------	--------
161200Z	19.5N	166.3E	097-0048	303-0126	--------
161800Z	19.9N	164.8E	016-0042	314-0132	--------
170000Z	20.1N	163.4E	000-0048	040-0138	--------
170600Z	20.1N	162.1E	308-0036	092-0162	--------
171200Z	20.1N	161.0E	329-0078	035-0144	--------
171800Z	20.0N	160.1E	327-0186	000-0258	343-0336
180000Z	20.0N	159.4E	336-0192	360-0318	--------
180600Z	19.9N	158.8E	313-0120	341-0306	011-0186
181200Z	20.0N	158.2E	301-0144	345-0372	--------
181800Z	20.4N	157.6E	293-0132	335-0516	000-0570
190000Z	20.9N	157.2E	259-0114	340-0516	--------
190600Z	21.6N	156.6E	196-0084	286-0246	351-0540
191200Z	22.6N	155.9E	183-0150	275-0264	--------
191800Z	23.9N	154.9E	180-0204	262-0240	001-0726
200000Z	25.2N	153.7E	164-0222	212-0270	--------
200600Z	26.4N	152.8E	172-0090	180-0318	248-0294
201200Z	27.6N	151.9E	120-0078	175-0390	--------
201800Z	28.8N	150.9E	097-0096	176-0438	232-0336
210000Z	30.1N	149.7E	055-0180	166-0438	--------
210600Z	31.5N	149.0E	078-0138	131-0150	180-0534
211200Z	33.1N	149.0E	089-0234	114-0246	--------
211800Z	34.8N	149.8E	118-0204	107-0306	190-0696
220000Z	36.5N	151.2E	226-0012	090-0438	--------
220600Z	38.2N	153.1E	240-0102	115-0306	154-0228

AVERAGE 24 HOUR ERROR - 0118 MI.
AVERAGE 48 HOUR ERROR - 0293 MI.
AVERAGE 72 HOUR ERROR - 0444 MI.


TYPHOON SARAH
CYCLONE 28
14–22 SEPTEMBER 1967
24 HR FORECAST POSITS
LEGEND
O----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
22/06Z
22/00Z
21/00Z
20/00
19/00Z
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
SEE BLOW UP
FOLLOWING PAGE
TOKYO
CHICHI JIMA
IWO JIMA
OKINAWA
SAIPAN
GUAM
YAP
ULITHI
TRUK
PONAPE
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
MAJURO
MIDWAY
VLADIVOSTOK


TYPHOON SARAH
CYCLONE 28
BLOW UP
24 HR FCST POSITS
17/18Z–19/12Z SEPTEMBER 1967
24 HR FORECAST POSITS
LEGEND
O----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
19/18Z
19/00Z
18/00Z
17/12Z
24N
22N
20N
18N
150E
152E
154E
156E
158E
160E
162E
164E