TYPHOON SARAH - 150600Z-221800Z AUGUST 1962

I. DATA

A. Statistics

1. Calendar days of tropical warning - 7½

2. Calendar days of typhoon intensity - 4

3. Total distance traveled during tropical warning period - 1320 MI

B. Characteristics as a typhoon

1. Min observed SLP - 978mb, 180400Z

2. Min observed 850mb height - 4260 ft, 180400Z

3. Min observed 700mb height - 9480 ft, 180400Z

4. Max vertical development - 30,000 ft, 180000Z

II. DEVELOPMENT

A. Initial impetus - Surge from westerlies into easterlies. Fracture following superposition of polar trough and easterly wave.

B. Initial surface vortex

1. Induced low at 081800Z

2. Surface pressure less than 1013mb

3. Maximum surface wind - 5 kts

C. Zenith flow at 200mb

1. Relative position surface vortex - SE quadrant of anticyclone

2. Wind velocity over vortex - 080/25 kts

III. STEERING

A. Prior to recurvature - 200mb

B. During recurvature - 200mb

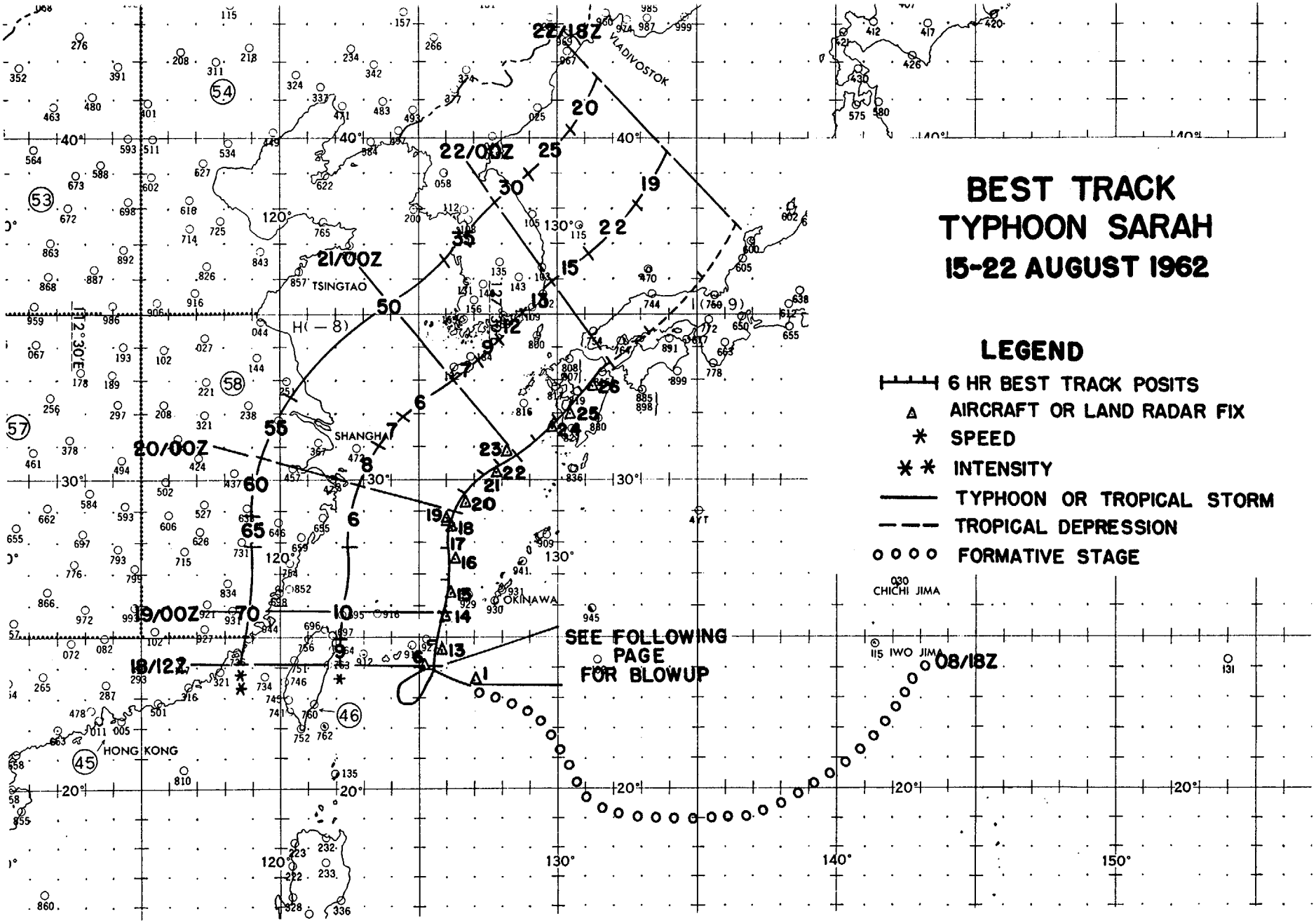
C. After recurvature - 200mb

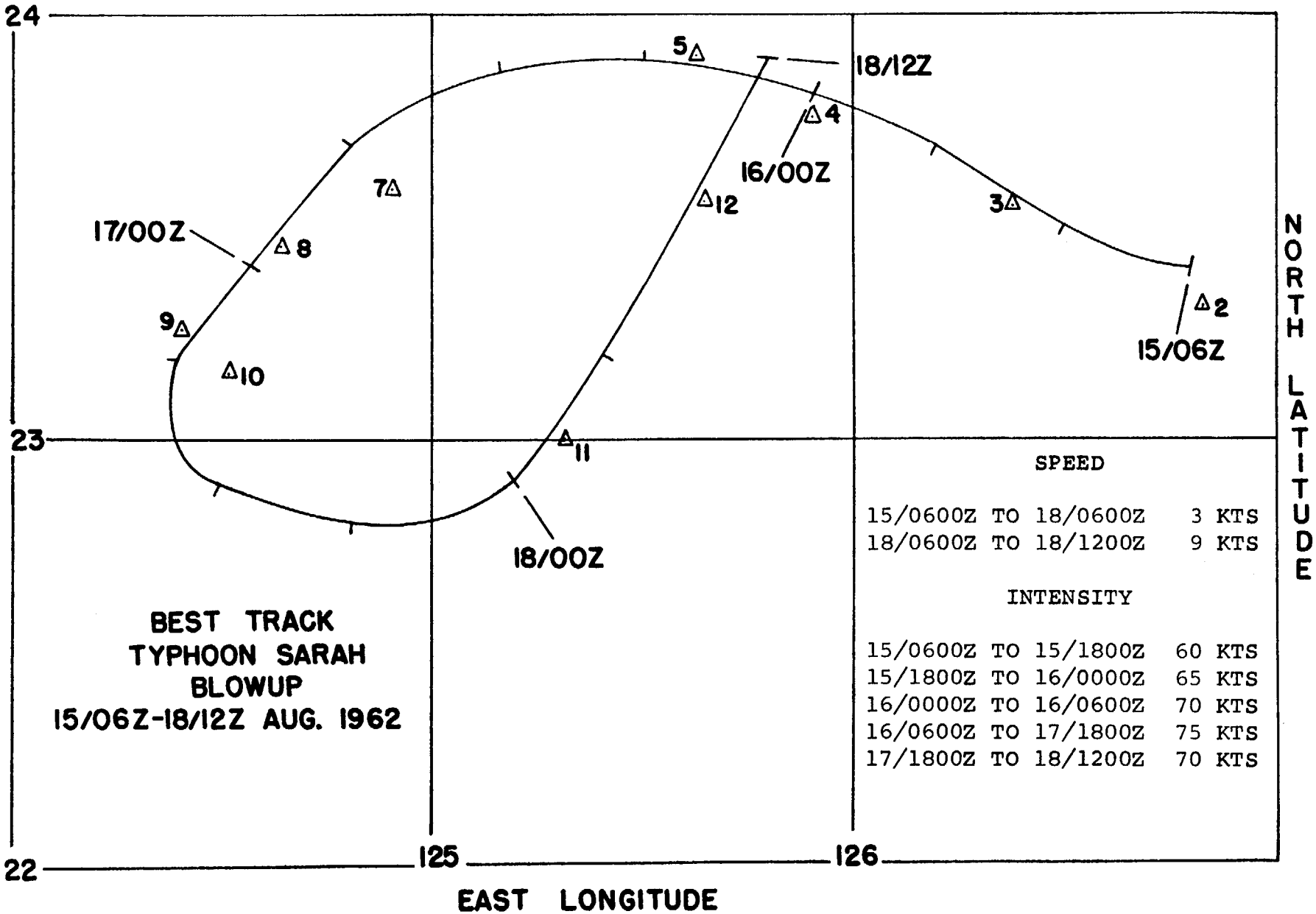
IV. DISSIPATION

A. Causative factor - Cold air and land strike

B. Final disposition - Extratropical

V. DAMAGE - No reports received


BEST TRACK
TYPHOON SARAH
15-22 AUGUST 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
22/18Z
22/00Z
21/00Z
20/00Z
19/00Z
18/12Z
08/18Z
VLADIVOSTOK
TSINGTAO
SHANGHAI
OKINAWA
HONG KONG
CHICHI JIMA
IWO JIMA
H(-8)
I(-9)
112°30'E
40°
30°
20°
120°
130°
140°
150°


24
23
22
125
126
EAST LONGITUDE
NORTH LATITUDE
18/12Z
16/00Z
17/00Z
18/00Z
15/06Z
5
4
3
2
7
8
9
10
11
12
BEST TRACK
TYPHOON SARAH
BLOWUP
15/06Z-18/12Z AUG. 1962
SPEED
15/0600Z TO 18/0600Z 3 KTS
18/0600Z TO 18/1200Z 9 KTS
INTENSITY
15/0600Z TO 15/1800Z 60 KTS
15/1800Z TO 16/0000Z 65 KTS
16/0000Z TO 16/0600Z 70 KTS
16/0600Z TO 17/1800Z 75 KTS
17/1800Z TO 18/1200Z 70 KTS

LAND RADAR AND AIRCRAFT FIXES - TYPHOON SARAH

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	150200Z	23.4N	127.0E	LND/RDR	-	-	-	-	- -	HAS SPIRAL BANDS
2	150645Z	23.3N	126.8E	USN-P-U	60	-	-	-	- -	DIA 14 MI
3	151400Z	23.6N	126.4E	LND/RDR	-	-	-	-	- -	---
4	152317Z	23.8N	125.9E	56-P-01	110	45	9800	981	12/11	CIRC 10 MI DIA
5	160345Z	23.9N	125.7E	56-P-01	125	-	9730	998	13/12	CIRC 18 MI DIA
6	161300Z	24.1N	125.2E	LND/RDR	-	-	-	-	- -	14 MI DIA
7	161845Z	23.6N	124.9E	LND/RDR	-	-	-	-	- -	---
8	162345Z	23.5N	124.6E	LND/RDR	-	-	-	-	- -	---
9	170335Z	23.3N	124.4E	56-P-02	75	65	9490	980	14/10	CIRC 25 MI DIA,WALL CLDS 10 MI THICK
10	171530Z	23.2N	124.5E	LND/RDR	-	-	-	-	- -	30 MI DIA
11	180400Z	23.0N	125.3E	56-P-03	65	60	9480	978	16/14	CIRC 50 MI DIA
12	181000Z	23.6N	125.7E	LND/RDR	-	-	-	-	- -	---
13	181600Z	24.5N	125.8E	LND/RDR	-	-	-	-	- -	---
14	182300Z	25.7N	126.0E	LND/RDR	-	-	-	-	- -	---
15	190403Z	26.4N	126.1E	56-P-02	75	65	9670	983	14/14	ELLIP 20X15 MI
16	191000Z	27.5N	126.2E	VW1-R-10	-	-	-	-	- -	OPEN E SEMICIRCLE
17	191600Z	28.6N	126.0E	VW1-R-03	-	-	-	-	- -	32 MI DIA,OPEN E
18	191830Z	28.4N	126.2E	LND/RDR	-	-	-	-	- -	21 MI DIA
19	192222Z	28.8N	126.0E	54-P-06	50	60	9680	986	13/13	OVAL 35 MI E-W/25 MI N-S

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

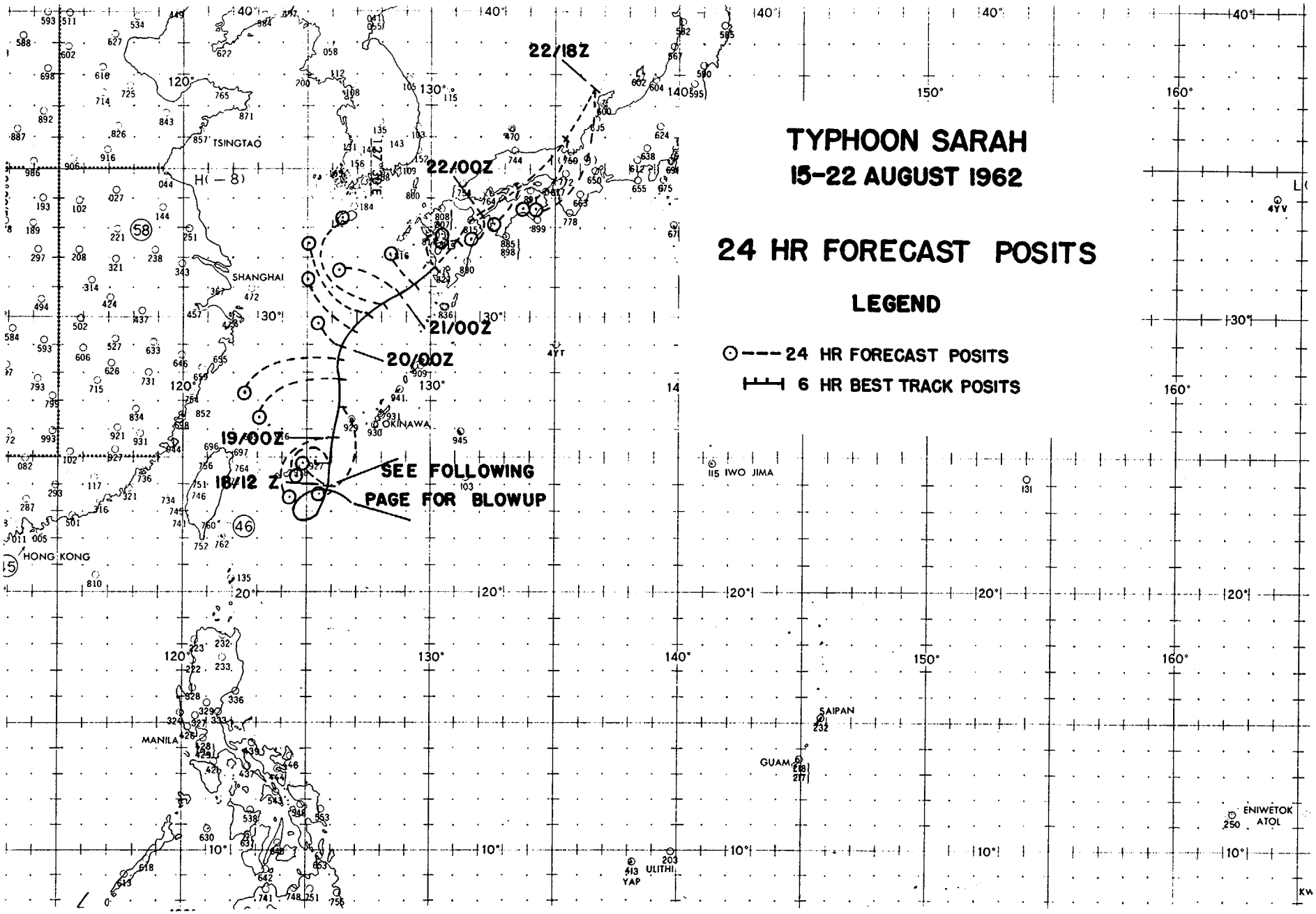
FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	MIN SLP MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
20	200305Z	29.3N	126.7E	54-P-05	40	50	9930	978	19/16	OPEN N TO E
21	201000Z	30.1N	127.3E	VW1-P-05	50	-	-	978	- -	CIRC 25 MI DIA,OPEN E
22	201600Z	30.3N	127.8E	VW1-R-03	-	-	-	-	- -	CIRC 32 MI DIA
23	210000Z	30.8N	128.3E	LND/RDR	-	-	-	-	- -	---
24	211100Z	31.7N	129.8E	LND/RDR	-	-	-	-	- -	---
25	211400Z	32.0N	130.3E	LND/RDR	-	-	-	-	- -	---
26	211930Z	32.8N	131.2E	LND/RDR	-	-	-	-	- -	---

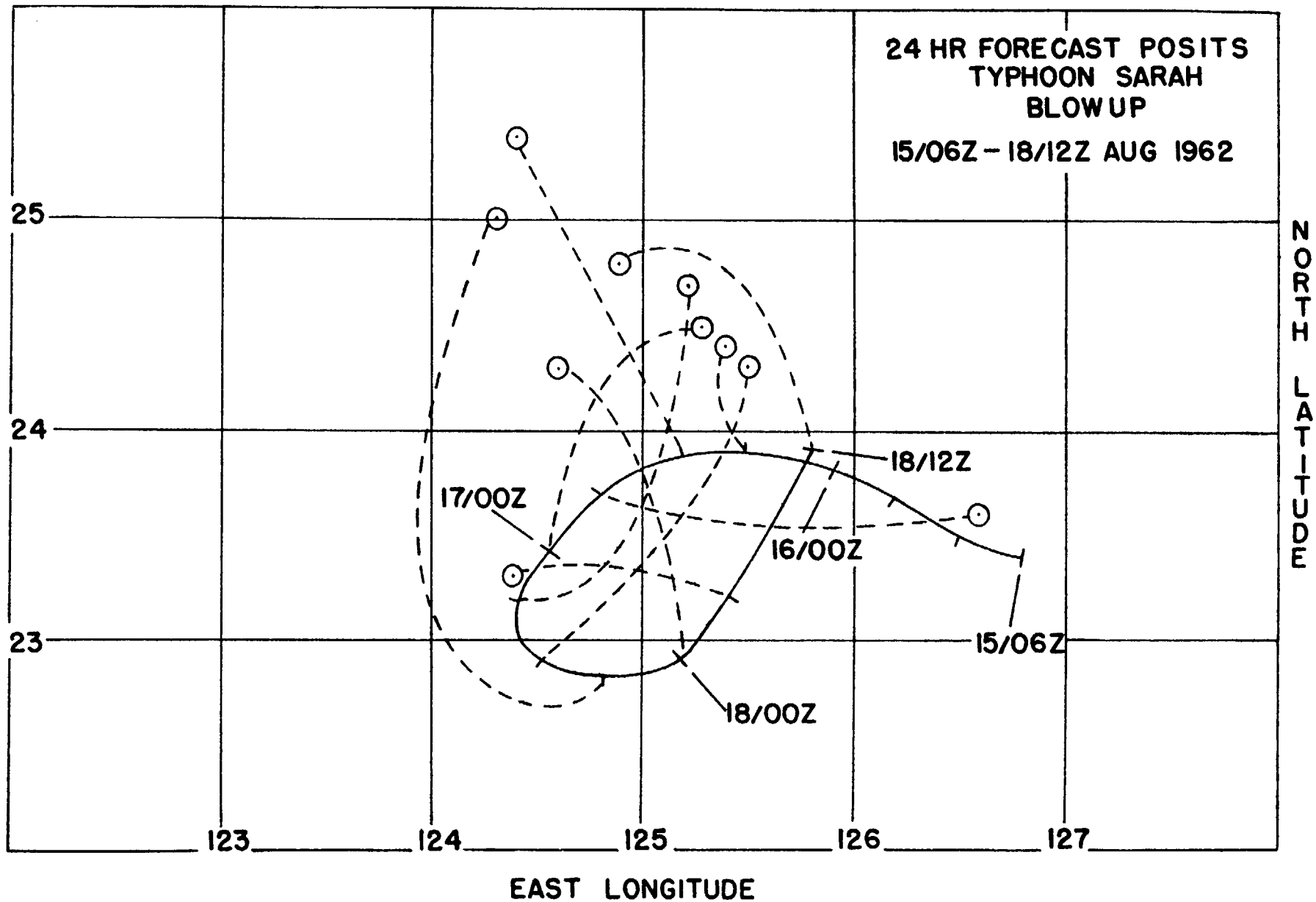
TYPHOON SARAH 15-22 AUG 1962
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DISTANCE	48 HR. ERROR DEG. DISTANCE
150600Z	23.4N	126.8E	------	------
151200Z	23.5N	126.5E	------	------
151800Z	23.7N	126.2E	------	------
160000Z	23.8N	125.9E	------	------
160600Z	23.9N	125.5E	340-28	------
161200Z	23.8N	125.2E	330-101	------
161800Z	23.7N	124.8E	094-95	------
170000Z	23.4N	124.6E	030-70	------
170600Z	23.2N	124.4E	026-80	347-230
171200Z	22.9N	124.5E	032-100	345-370
171800Z	22.8N	124.8E	354-127	348-170
180000Z	22.9N	125.2E	341-85	338-265
180600Z	23.2N	125.4E	282-48	334-265
181200Z	23.9N	125.8E	315-75	327-260
181800Z	24.8N	125.9E	241-80	323-283
190000Z	25.8N	126.0E	208-168	302-165
190600Z	26.8N	126.1E	191-210	240-115
191200Z	27.8N	126.1E	243-185	259-185
191800Z	28.4N	126.1E	250-212	242-197
200000Z	29.0N	126.3E	315-75	204-260
200600Z	29.6N	126.8E	316-137	210-290
201200Z	30.1N	127.4E	320-190	253-470
201800Z	30.4N	128.0E	334-185	253-535
210000Z	30.8N	128.5E	295-130	334-345
210600Z	31.2N	129.2E	318-80	342-400
211200Z	31.8N	130.0E	017-67	340-400
211800Z	32.6N	131.0E	261-27	340-328
220000Z	33.6N	132.0E	198-60	292-250
220600Z	34.5N	133.4E	215-102	285-138
221200Z	36.0N	135.3E	213-165	224-174
221800Z	37.7N	136.5E	208-265	225-270

TYPHOON SARAH 15-22 AUG 1962
POSITION AND FORECAST VERIFICATION DATA

AVERAGE 24 HOUR ERROR 116.6 MI
AVERAGE 48 HOUR ERROR 276.7 MI


TYPHOON SARAH
15-22 AUGUST 1962
24 HR FORECAST POSITS
LEGEND
24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
22/18Z
22/00Z
21/00Z
20/00Z
19/00Z
18/12 Z
SEE FOLLOWING PAGE FOR BLOWUP
TSINGTAO
SHANGHAI
OKINAWA
HONG KONG
MANILA
IWO JIMA
SAIPAN
GUAM
ULITHI
YAP
ENIWETOK ATOL


24 HR FORECAST POSITS
TYPHOON SARAH
BLOW UP
15/06Z - 18/12Z AUG 1962
25
24
23
123
124
125
126
127
NORTH LATITUDE
EAST LONGITUDE
18/12Z
17/00Z
16/00Z
15/06Z
18/00Z