HURRICANE SARAH - 081800Z to 140000Z September 1967

I. DATA

A. STATISTICS

1. Number of warnings issued in FWC Pearl Harbor's area: 22

2. Number of warnings with hurricane intensity: 4

3. Total distance traveled in FWC Pearl Harbor area: 1925 nautical miles. (as T.S. 1645 nm; as hurricane 280 nm)

B. CHARACTERISTICS AS A HURRICANE

1. Minimum observed slp and 700 mb height: All reconnaissance flights were high level at 300 mb.

2. Maximum surface wind in FWC Pearl Harbor area: 65 knots

3. Maximum radius of surface circulation: 500 nautical miles

II. DEVELOPMENT

A. INITIAL IMPETUS: ITCZ

B. INITIAL SURFACE VORTEX

1. 071800Z

2. Surface pressure less than 1007 mb.

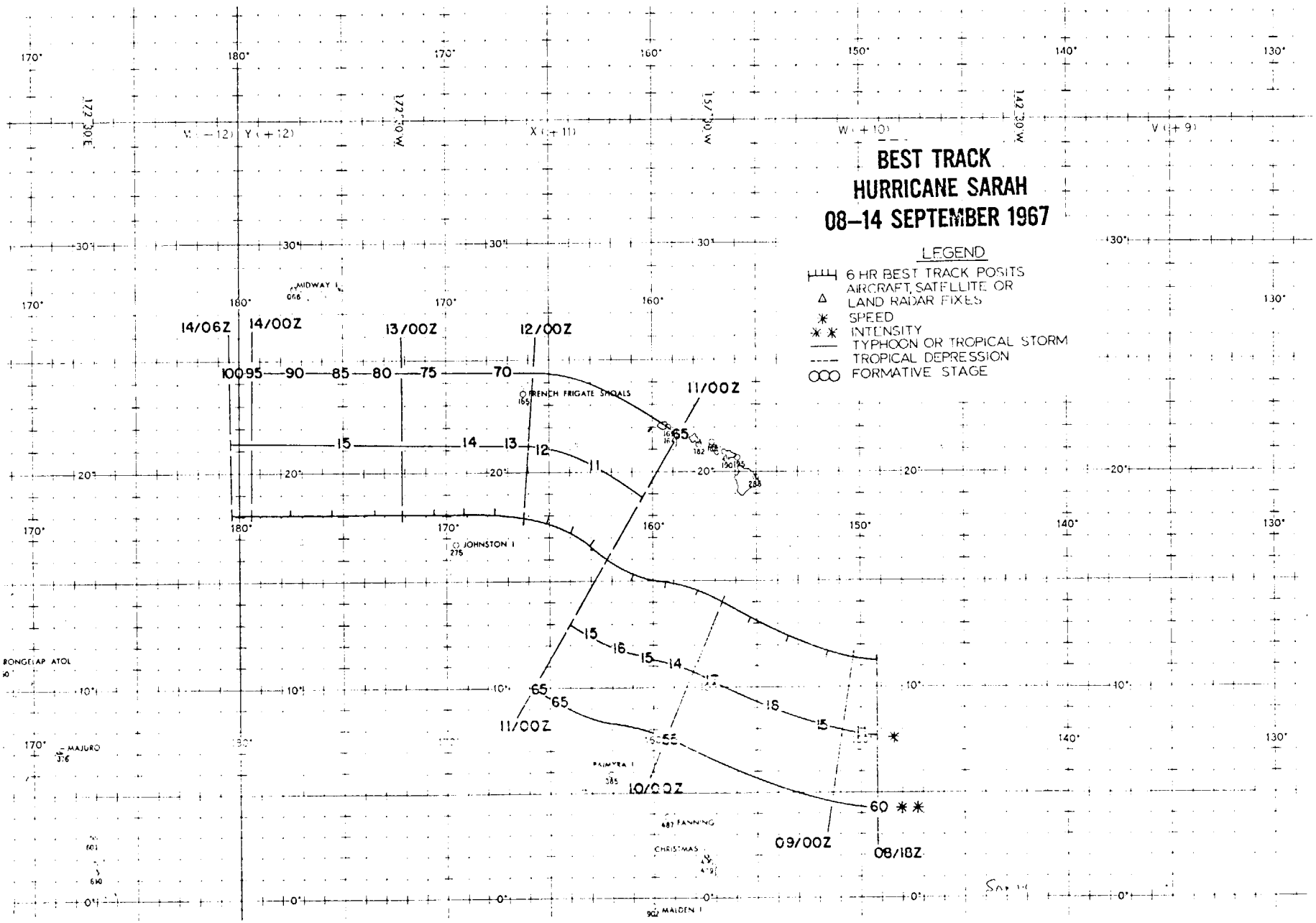
3. Time storm reached hurricane intensity: 101800Z

C. 200 MB FLOW ABOVE SURFACE VORTEX

1. Initial: South to southeasterly as surface low progressed to west northwest under ridge aloft.

2. Upon reaching hurricane intensity: Southerly for next 60 hours gradually becoming variable as SARAH was temporarily downgraded to tropical storm intensity. Surface vortex was gradually caught up in northeast flow at 200 mb and recurved to the west while slowly intensifying.

III. FINAL DISPOSITION: SARAH crossed the date-line into FWC Guam's area of responsibility as a tropical storm with slow intensification continuing.

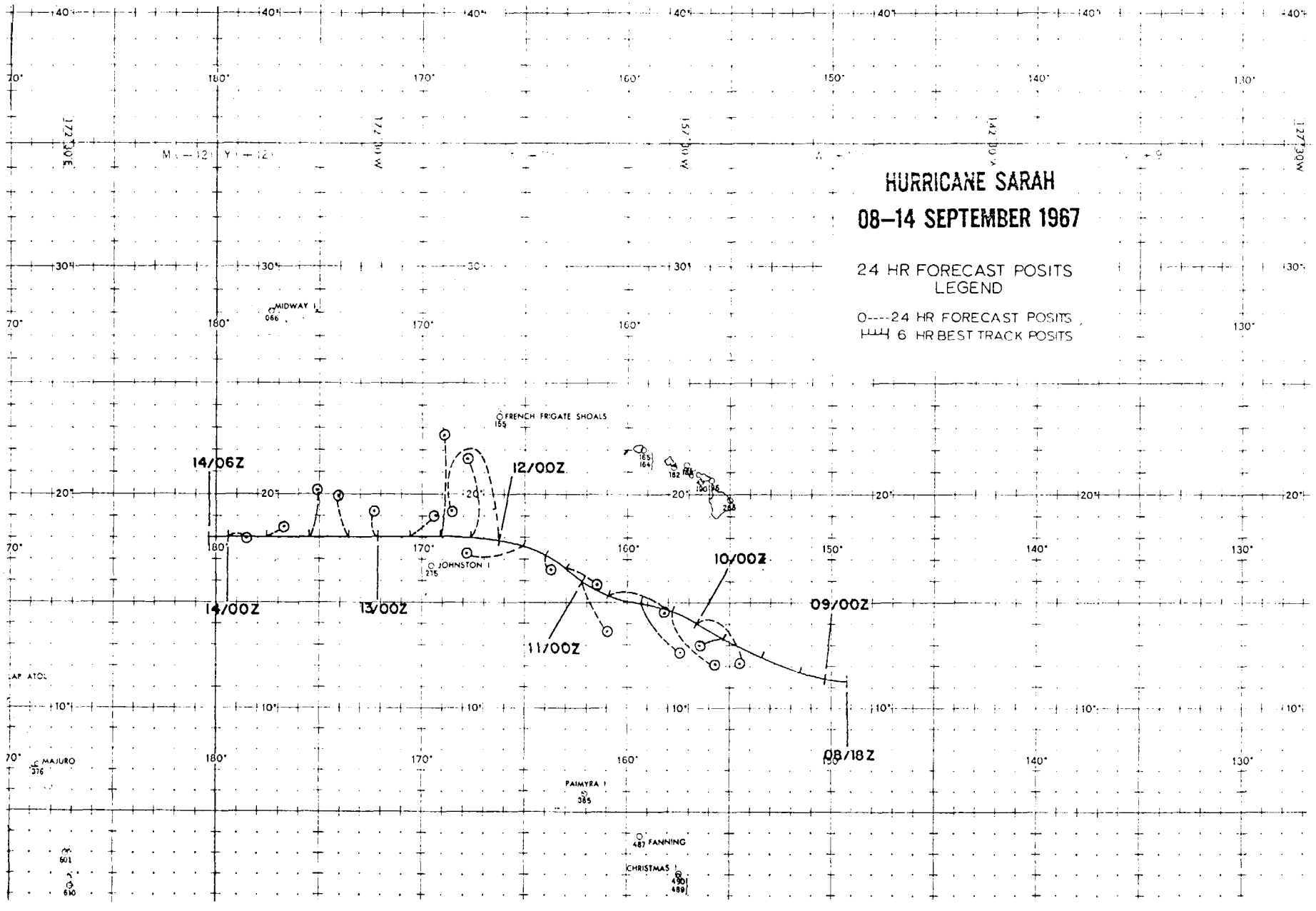

BEST TRACK
HURRICANE SARAH
08–14 SEPTEMBER 1967
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
14/06Z
14/00Z
13/00Z
12/00Z
11/00Z
10/00Z
09/00Z
08/18Z
MIDWAY I.
FRENCH FRIGATE SHOALS
JOHNSTON I
PALMYRA I
FANNING
CHRISTMAS
MALDEN I
MAJURO
RONGELAP ATOL

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
1	100400Z	14.3N 157.2E	AF-R-P05	9640M	---	---	---	---	--/--	CIRC	----	20	--
2	110059Z	16.0N 162.4E	AF-R-P--	9640M	060	---	---	---	--/--	CIRC	----	10	--
3	110220Z	16.7N 162.8E	AF-R-P05	9640M	060	---	---	---	--/--	CIRC	----	--	--
4	112314Z	17.7N 166.1E	AF-R-F05	9410M	---	---	---	---	--/--	CIRC	----	15	--
5	121715Z	18.0N 170.5E	AF-R-P03	9030M	---	---	---	---	--/--	CIRC	----	20	--
6	121930Z	18.2N 171.0E	AF-R-P03	9100M	---	---	---	---	--/--	CIRC	----	25	--
7	130432Z	18.0N 173.2E	AF-R-L03	9990M	---	---	---	---	--/--	CIRC	----	10	--
8	131822Z	18.3N 177.9E	AF-R-L10	9100M	---	---	---	---	--/--	CIRC	----	20	--

HURRICANE SARAH 8 SEPT-14 SEPT 1967
FORECAST VERIFICATION DATA
(Distance From Best Track in Nautical Miles)

DTG	ERROR AT WRNG TIME (n.m.)	FORECAST ERROR 12HR	24HR	48HR	72HR
081800Z	0				
090000Z	18				
090600Z	36	99			
091200Z	6	94			
091800Z	72	144	78		
100000Z	30	112	192		
100600Z	33	83	210		
101200Z	24	83	175		
101800Z	6	88	193	218	
110000Z	15	54	155	330	
110600Z	39	96	113	365	
111200Z	72	69	40	295	
111800Z	6	105	172	250	405
120000Z	18	165	155	259	413
120600Z	8	47	210	150	436
121200Z	30	36	278	69	348
121800Z	0	66	110	270	334
130000Z	6	98	69	246	320
130600Z	0	18	132	472	312
131200Z	6	0	132	525	192
131800Z	72	6	18	274	370
140000Z	72	0	6	193	432
Average Error:	25.8	73.1	135.5	279.7	356.2


HURRICANE SARAH
08–14 SEPTEMBER 1967
24 HR FORECAST POSITS
LEGEND
O----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
14/06Z
12/00Z
10/00Z
09/00Z
08/18Z
11/00Z
13/00Z
14/00Z
MIDWAY I.
FRENCH FRIGATE SHOALS
JOHNSTON I
MAJURO
PALMYRA I
FANNING
CHRISTMAS I.