TROPICAL CYCLONE 38 - 11/07/0600Z TO 11/10/0000Z

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 12
2. NUMBER OF WARNINGS WITH TYPHOON INTENSITY - 07
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 1044 MI

B. CHARACTERISTICS AS A TYPHOON

1. MINIMUM OBSERVED SLP - 971MBS AT 090940Z
2. MINIMUM OBSERVED 700MB HEIGHT - 2917M. AT 090415Z
3. MAXIMUM SURFACE WIND - 085 KTS (FROM BEST TRACK)
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - 250 MI

II. DEVELOPMENT

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

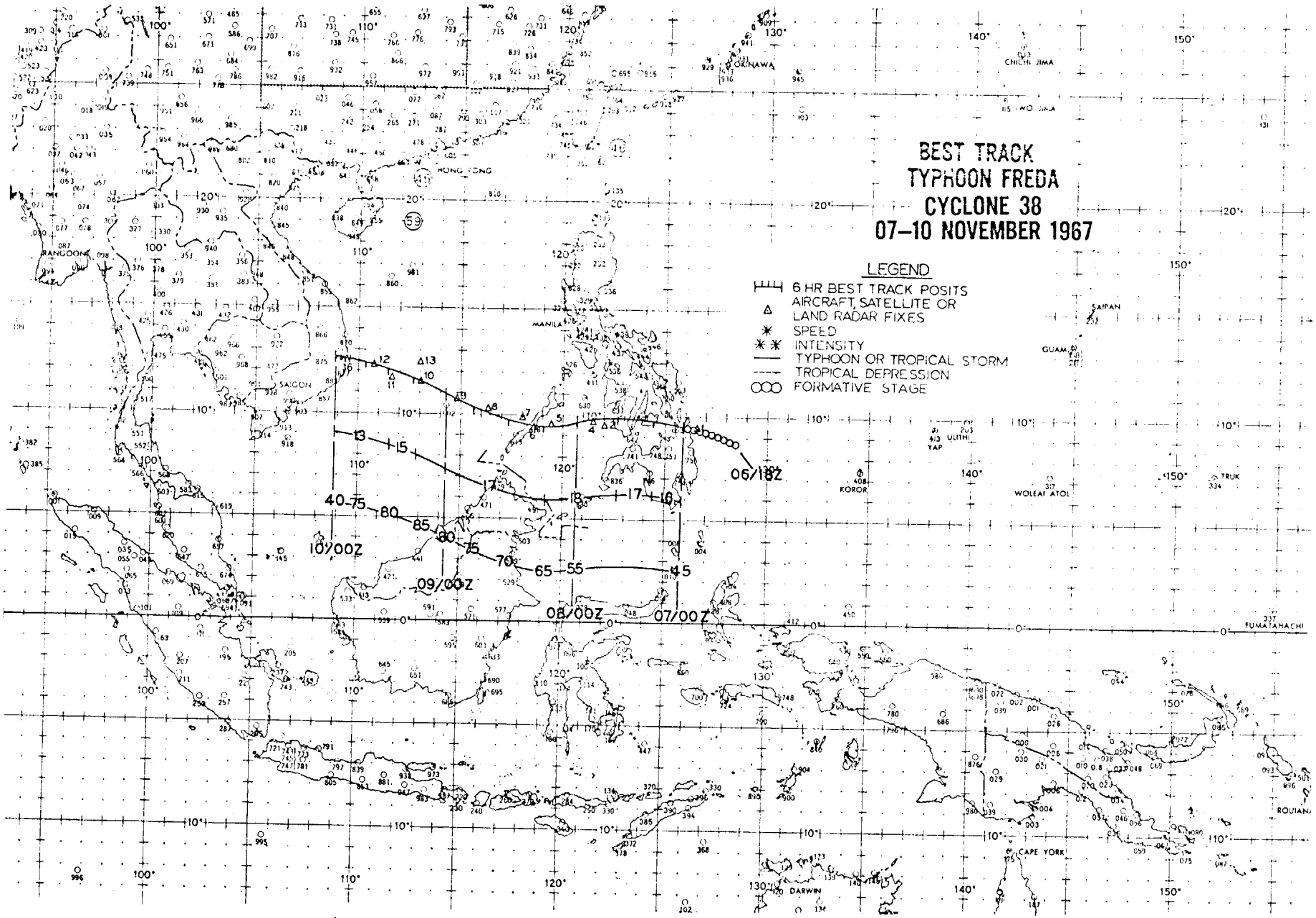
B. INITIAL SURFACE VORTEX

1. INDUCED VORTEX AT 061800Z
2. SURFACE PRESSURE LESS THAN 1006MB

C. 200MB FLOW ABOVE SURFACE VORTEX

1. INITIAL - FAST
2. UPON REACHING TYPHOON INTENSITY - EAST

III. FINAL DISPOSITION - DISSIPATED OVER LAND


BEST TRACK
TYPHOON FREDA
CYCLONE 38
07–10 NOVEMBER 1967
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
06/18Z
07/00Z
08/00Z
09/00Z
10/00Z
OKINAWA
CHICHI JIMA
IWO JIMA
HONG KONG
RANGOON
MANILA
SAIGON
SAIPAN
GUAM
ULITHI
YAP
KOROR
WOLEAI ATOL
TRUK
FUMATAHACHI
ROUIAN
CAPE YORK
DARWIN

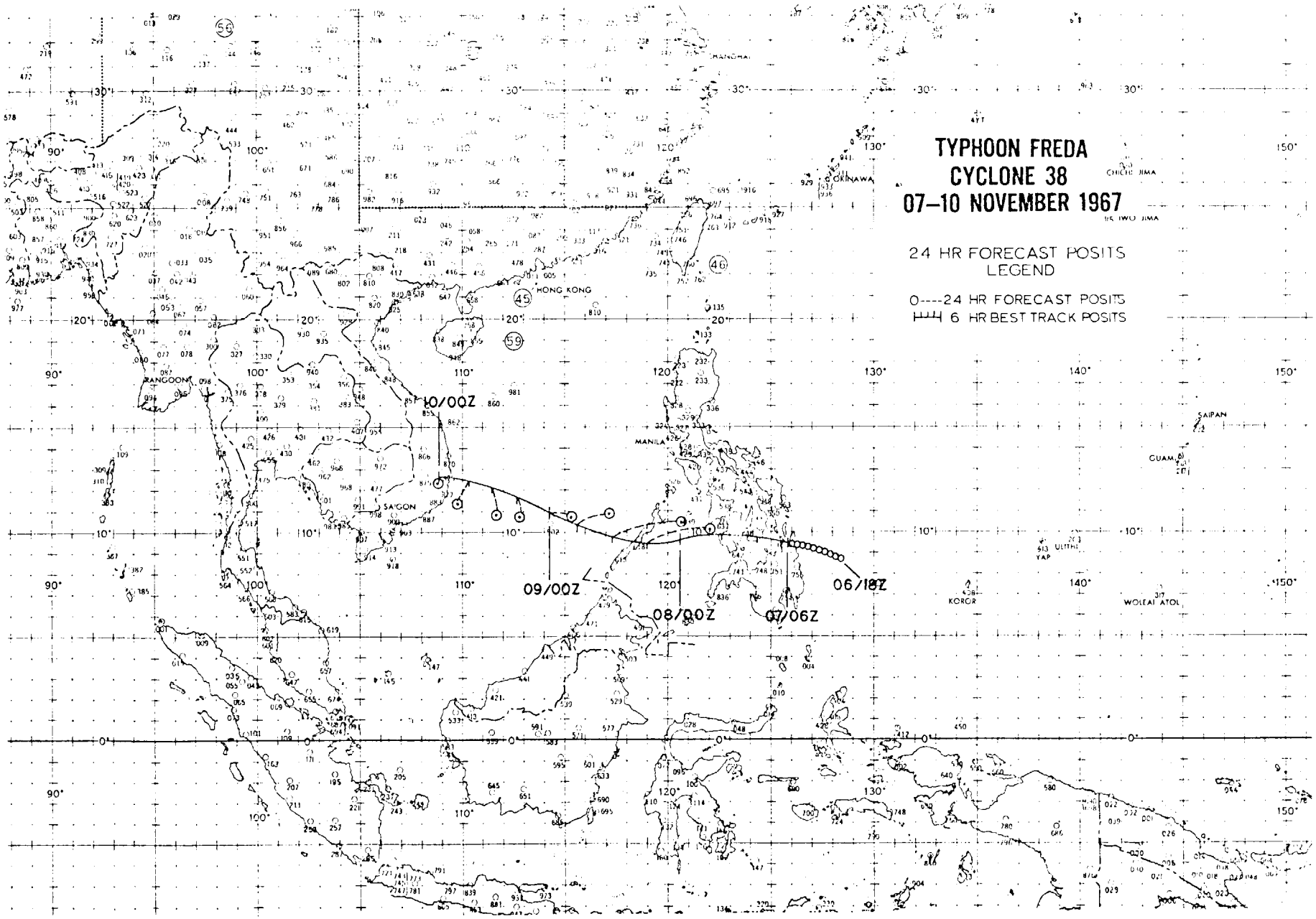
EYE FIXES CYCLONE 38

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	070322Z	09.3N 126.4E	54-P-F02	500MB	055	045	---	---	--/--	ELIP	N-S	20X10	N.F.B.
2	070459Z	08.0N 124.0E	SLTLS	STG X	DIA 03	BNDS 2							
3	071700Z	09.5N 122.0E	VW-P-L--	700MB	---	---	---	3062	--/--	----			--
4	072145Z	09.8N 121.3E	VW-P-P02	700MB	065	070	979	3065	13/--	CIRC	----	20	N.F.B.
5	080415Z	09.6N 119.2E	54-P-P03	500MB	075	---	---	---	--/--	CIRC	----	20	--
6	080549Z	09.5N 118.5E	SLTLS	STG X	DIA 04	BNDS 2							
7	080913Z	09.9N 118.0E	54-P-P05	500MB	070	060	984	2939	13/13	ELIP	N-S	20X09	--
8	081530Z	10.3N 116.2E	VW-P-P10	0380M	065	045	987	3120	09/00	CIRC	----	25	04
9	082130Z	10.7N 114.9E	VW-P-P10	700MB	060	---	---	---	--/--	CIRC	----	18	06
10	090415Z	11.5N 113.0E	54-P-P03	700MB	095	110	976	2917	18/17	CIRC	----	25	--
11	090445Z	12.5N 113.0E	SLTLS	STG X	DIA 04	BNDS 3							
12	090940Z	11.8N 111.7E	54-P-P04	700MB	085	120	971	---	18/--	CIRC	----	20	--
13	091600Z	12.3N 110.7E	VW-P-P03	0310M	085	090	977	---	--/--	CIRC	----	19	--
14	091800Z	12.4N 110.3E	VW-R-P--	700MB	---	---	---	---	--/--	----			--
15	091830Z	12.5N 110.1E	VW-R-P--	700MB	---	---	---	---	--/--	----			--
16	092030Z	12.5N 109.4E	VW-R-P01	700MB	---	---	---	---	--/--	CIRC	----	20	--

TROPICAL CYCLONE 38 -- 11/07/0600Z TO 11/10/0000Z
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.
070600Z	09.5N	125.9E	--------	--------	--------
071200Z	09.8N	124.3E	--------	--------	--------
071800Z	09.8N	122.5E	--------	--------	--------
080000Z	09.6N	120.8E	--------	--------	--------
080600Z	09.5N	119.0E	081-0174	--------	--------
081200Z	09.9N	117.4E	085-0192	--------	--------
081800Z	10.4N	115.7E	069-0078	--------	--------
090000Z	11.0N	114.2E	109-0066	--------	--------
090600Z	11.5N	112.7E	173-0054	099-0312	--------
091200Z	12.0N	111.4E	170-0072	103-0282	--------
091800Z	12.4N	110.3E	202-0060	094-0144	--------
100000Z	12.8N	108.9E	180-0018	122-0168	--------

AVERAGE 24 HOUR ERROR - 0089 MI.
AVERAGE 48 HOUR ERROR - 0226 MI.
AVERAGE 72 HOUR ERROR - ---- MI.


TYPHOON FREDA
CYCLONE 38
07–10 NOVEMBER 1967
24 HR FORECAST POSITS
LEGEND
0----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
10/00Z
09/00Z
08/00Z
07/06Z
06/18Z
HONG KONG
MANILA
SAIGON
RANGOON
OKINAWA
CHICHI JIMA
IWO JIMA
SAIPAN
GUAM
ULITHI
YAP
KOROR
WOLEAI ATOL