TROPICAL CYCLONE 04 - 04/01/0600Z TO 04/12/0600Z

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 45
2. NUMBER OF WARNINGS WITH TYPHOON INTENSITY - 32
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 2688 MI

B. CHARACTERISTICS AS A TYPHOON

1. MINIMUM OBSERVED SLP - 929MBS AT 060825Z
2. MINIMUM OBSERVED 700MB HEIGHT - 2460M. AT 060825Z
3. MAXIMUM SURFACE WIND - 120 KTS (FROM BEST TRACK)
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - 450 MI

II. DEVELOPMENT

A. INITIAL IMPETUS - FRACTURE OF A POLAR TROUGH AND AN EASTERLY WAVE

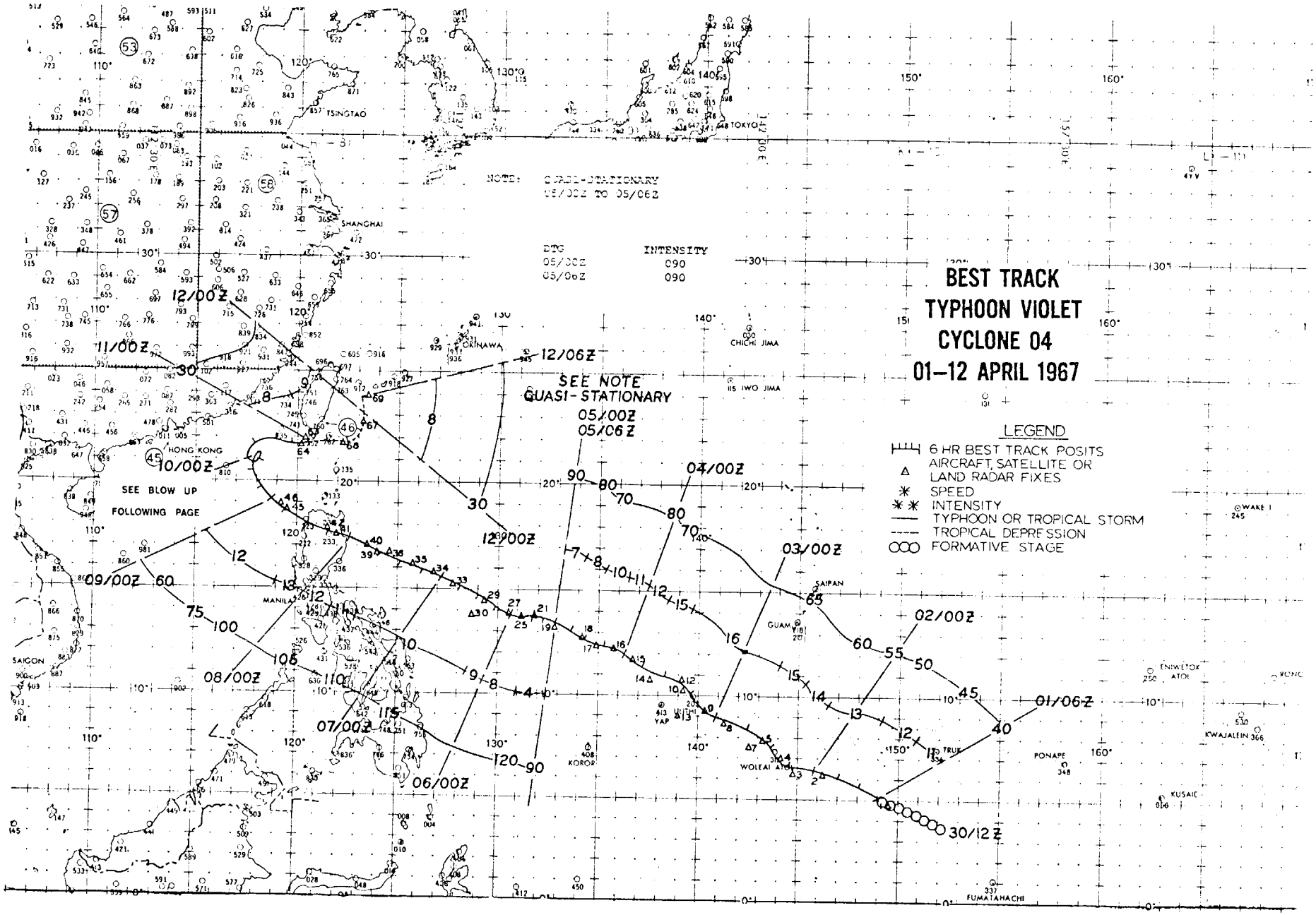
B. INITIAL SURFACE VORTEX

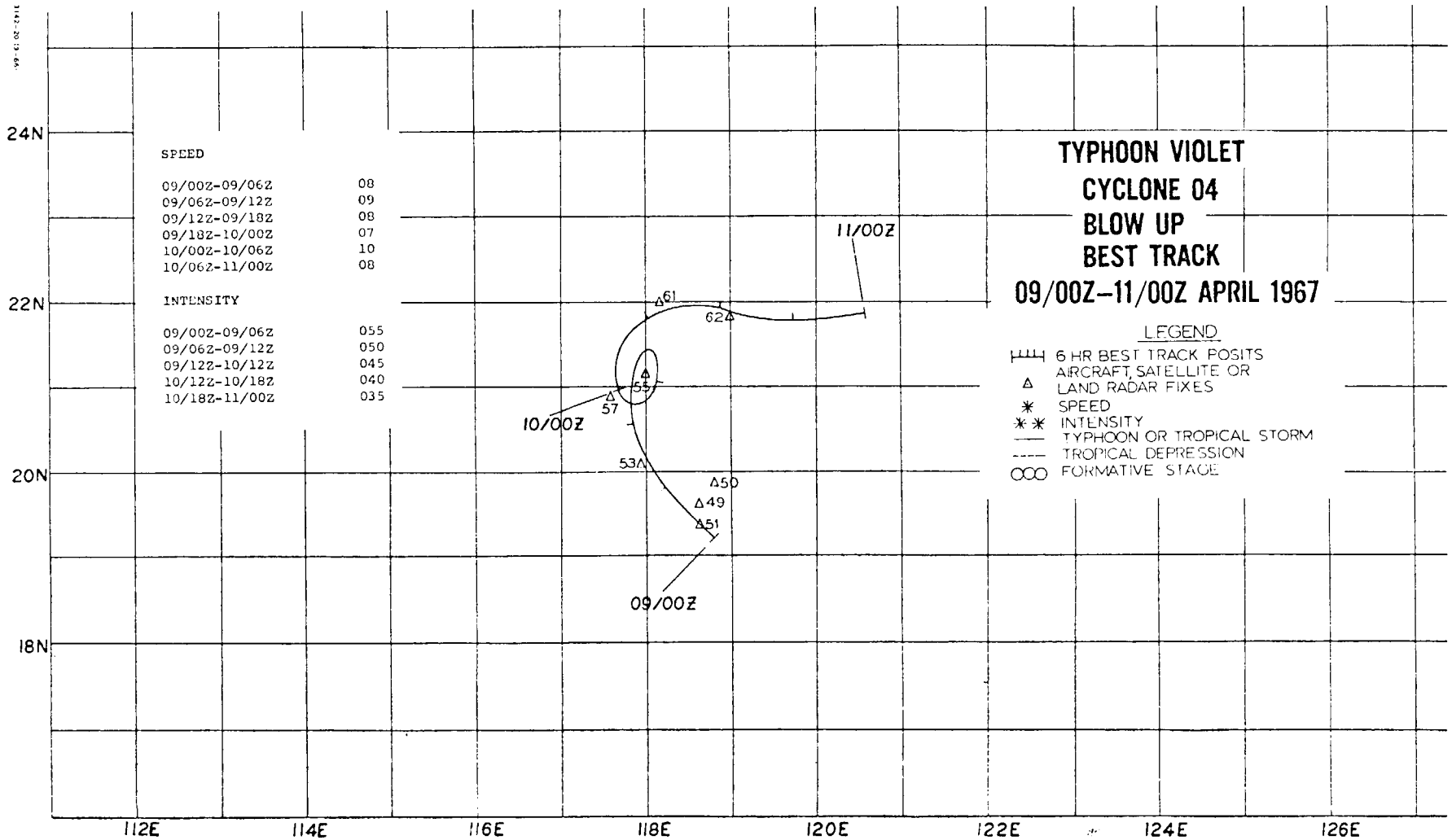
1. INDUCED VORTEX AT 301200Z
2. SURFACE PRESSURE LESS THAN 1004MB

C. 200MB FLOW ABOVE SURFACE VORTEX

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

III. FINAL DISPOSITION - DISSIPATED OVER WATER


BEST TRACK
TYPHOON VIOLET
CYCLONE 04
01–12 APRIL 1967
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
DTG
INTENSITY
05/00Z 090
05/06Z 090
SEE NOTE
QUASI-STATIONARY
05/00Z
05/06Z
SEE BLOW UP
FOLLOWING PAGE
TSINGTAO
SHANGHAI
OKINAWA
TOKYO
CHICHI JIMA
IWO JIMA
HONG KONG
MANILA
SAIGON
SAIPAN
GUAM
YAP
KOROR
WOLEAI ATOL
TRUK
PONAPE
KUSAIE
KWAJALEIN
ENIWETOK ATOL
WAKE I
FUMATAHACHI
01/06Z
02/00Z
03/00Z
04/00Z
06/00Z
07/00Z
08/00Z
09/00Z
10/00Z
11/00Z
12/00Z
12/06Z
30/12Z


TYPHOON VIOLET
CYCLONE 04
BLOW UP
BEST TRACK
09/00Z–11/00Z APRIL 1967
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
SPEED
09/00Z-09/06Z 08
09/06Z-09/12Z 09
09/12Z-09/18Z 08
09/18Z-10/00Z 07
10/00Z-10/06Z 10
10/06Z-11/00Z 08
INTENSITY
09/00Z-09/06Z 055
09/06Z-09/12Z 050
09/12Z-10/12Z 045
10/12Z-10/18Z 040
10/18Z-11/00Z 035
11/00Z
10/00Z
09/00Z
61
62
55
57
53
50
49
51
24N
22N
20N
18N
112E
114E
116E
118E
120E
122E
124E
126E

EYE FIXES CYCLONE 04

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	0103107	04.9N 149.5E	54-P-F10	0460M	035	035	000	3066	07/--	----			F.B.
2	0121257	06.3N 146.3E	54-P-P05	700MB	035	035	995	---	--/--	CIRC	----	30	10
3	0203007	06.3N 144.9E	54-P-P05	0460M	050	050	986	---	--/--	CIRC	----	25	--
4	020615Z	07.5N 142.5E	SLTLS	STG X	DIA 05	BNDS 2							
5	020830Z	07.0N 144.3E	VW-P-P--	0300M	045	045	990	3048	15/07	CIRC	----	12	--
6	021330Z	07.8N 143.2E	VW-R-P05	700MB	---	---	---	---	--/--	----			--
7	021430Z	07.9N 143.0E	VW-P-P05	700MB	---	---	992	3002	14/08	CIRC	----	16	--
8	022200Z	08.6N 141.3E	54-P-P05	700MB	060	075	991	2978	11/--	CIRC	----	30	--
9	030200Z	09.2N 140.4E	54-P-P03	3310M	055	060	982	2972	10/--	CIRC	----	25	--
10	030310Z	09.0N 139.0E	SLTLS	STG C	DIA --	BNDS -							
11	030750Z	10.3N 139.2E	VW-UNK10		---	---	---	---	--/--	----			--
12	030900Z	10.3N 139.5E	VW-P-P05	0310M	065	065	988	---	--/--	CIRC	----	25	08
13	031230Z	10.9N 138.3E	VW-UNK20		---	---	---	---	--/--	----			--
14	031441Z	10.7N 137.6E	VW-P-P05	700MB	050	---	---	---	--/--	----			F.B.
15	032044Z	11.6N 136.8E	54-P-P02	700MB	045	---	975	2874	17/--	CIRC	----	10	08
16	040300Z	12.2N 135.7E	54-P-P03	3300M	065	050	977	2880	10/--	CIRC	----	10	--
17	040312Z	12.0N 135.0E	SLTLS	STG X	DIA 04	BNDS 4							
18	040816Z	12.4N 134.9E	54-P-P05	3110M	065	075	969	2804	14/--	CIRC	----	05	40
19	041445Z	12.8N 134.1E	VW-P-P07	0460M	---	065	967	---	--/--	ELIP	N-S	10X06	--
20	042040Z	13.2N 132.9E	VW-P-P05	700MB	---	050	974	2841	12/06	ELIP	N-S	23X12	--
21	050300Z	13.2N 133.0E	54-P-P02	3320M	080	050	978	2920	15/--	CIRC	----	30	05
22	050352Z	13.8N 131.8E	ACFT RDR		---	---	---	---	--/--	----			--
23	050503Z	13.0N 132.5E	SLTLS	STG X	DIA 05	BNDS 4							
24	050900Z	13.2N 132.7E	54-P-P02	700MB	095	100	942	2600	20/--	CIRC	----	30	05

EYE FIXES CYCLONE 04

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	051250Z	14.0N 132.5E	ACFT RDR		---	---	---	---	--/--	----			--
26	051500Z	13.6N 132.1E	VW-P-P03	700MB	050	---	932	2502	21/12	CIRC	----	25	05
27	051930Z	13.7N 131.2E	VW-R-P--		---	---	---	---	--/--	----			--
28	052107Z	13.7N 131.0E	VW-P-P02	700MB	080	070	977	2877	21/12	ELIP	NW-SE	26X17	04
29	060130Z	13.9N 130.6E	54-UNK--	500MB	---	---	---	---	--/--	----			--
30	060330Z	14.1N 130.3E	54-P-P05	700MB	105	095	931	2472	20/--	ELIP	NW-SE	35X25	05
31	060825Z	14.5N 129.3E	54-P-P12	700MB	115	100	929	2460	18/--	CIRC	----	25	05
32	061348Z	14.7N 128.8E	VW-UNK--		---	---	---	---	--/--	----			--
33	061500Z	14.9N 128.8E	VW-P-P02	2200M	060	---	940	2575	--/--	CIRC	----	22	04
34	062100Z	15.3N 127.7E	VW-P-P03	2440M	110	---	940	2572	17/13	CIRC	----	23	04
35	070300Z	15.8N 126.8E	54-P-P02	2820M	050	100	947	2618	17/--	CIRC	----	25	05
36	070900Z	16.1N 125.8E	54-P-P02	700MB	075	050	948	2624	14/--	CIRC	----	20	05
37	071129Z	16.3N 126.0E	ACFT RDR		---	---	---	---	--/--	----			--
38	071519Z	16.7N 124.6E	VW-P-P02	2480M	080	---	954	2705	17/11	CIRC	----	25	05
39	071730Z	16.8N 124.0E	VW-UNK--		---	---	---	---	--/--	----			--
40	072109Z	17.1N 123.5E	VW-P-P02	700MB	090	---	958	2723	16/10	CONC		60-25	05
41	080330Z	17.5N 122.0E	54-R-L05	700MB	085	100	---	---	--/--	CIRC	----	30	--
42	080700Z	17.8N 121.5E	54-R-P--		---	---	---	---	--/--	----			--
43	080835Z	17.7N 121.3E	54-R-L05	3300M	---	---	---	---	--/--	CIRC	----	25	--
44	081512Z	18.6N 119.6E	VW-P-P02	700MB	070	---	993	2995	12/05	CIRC	----	40	05
45	082109Z	19.0N 119.3E	VW-P-P02	0270M	055	045	991	---	--/--	CIRC	----	80	--
46	082250Z	18.9N 119.1E	LND RDR		---	---	---	---	--/--	----			--
47	090000Z	19.3N 118.8E	LND RDR		---	---	---	---	--/--	----			--
48	090100Z	19.5N 118.6E	LND RDR		---	---	---	---	--/--	----			--

EYE FIXES CYCLONE 04

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
49	090200Z	19.8N 118.8E	LND RDR		---	---	---	---	--/--	----			--
50	090300Z	19.4N 118.5E	54-P-P03	700MB	050	050	991	2987	12/--	CIRC	----	25	--
51	090300Z	19.6N 118.8E	LND RDR		---	---	---	---	--/--	----			--
52	090439Z	19.5N 118.0E	SLTLS	STG X	DIA 05 BNDS 3								
53	090910Z	20.1N 117.9E	54-P-P03	3390M	060	050	993	3002	12/--	CIRC	----	30	--
54	091500Z	21.3N 118.0E	VW-P-F15	0350M	---	040	995	---	--/--	CIRC	----	85	--
55	091700Z	21.2N 111.8E	VW-UNK--		---	---	---	---	--/--	----			--
56	091800Z	21.1N 118.1E	VW-UNK--		---	---	---	---	--/--	----			--
57	091900Z	19.9N 118.0E	VW-UNK--		---	---	---	---	--/--	----			--
58	092127Z	20.8N 117.6E	VW-P-P05	700MB	053	---	998	3027	14/12	CIRC	----	40	--
59	100310Z	21.0N 117.8E	54-P-F10	700MB	050	060	994	3024	11/--	----			--
60	100820Z	22.0N 118.3E	54-P-F05	700MB	070	060	995	3024	12/--	----			F.B.
61	101520Z	21.7N 119.0E	VW-P-P02	0220M	045	050	997	---	--/--	CIRC	----	30	--
62	101930Z	22.0N 120.4E	VW-UNK--		---	---	---	---	--/--	----			--
63	102100Z	21.7N 120.1E	VW-P-P02	0220M	035	030	999	3060	12/--	----			--
64	110300Z	21.8N 120.8E	54-P-P01	700MB	025	025	009	3136	12/--	CIRC	----	10	--
65	110845Z	21.8N 121.7E	54-P-P02	700MB	---	025	000	3103	11/--	----			N.F.B.
66	111445Z	22.8N 123.3E	VW-P-F10	700MB	040	---	998	3182	12/11	----			--
67	111454Z	21.9N 123.3E	ACFT RDR		---	---	---	---	--/--	----			--
68	112117Z	23.9N 123.3E	VW-P-P02		---	030	011	---	--/--	----			N.F.B.

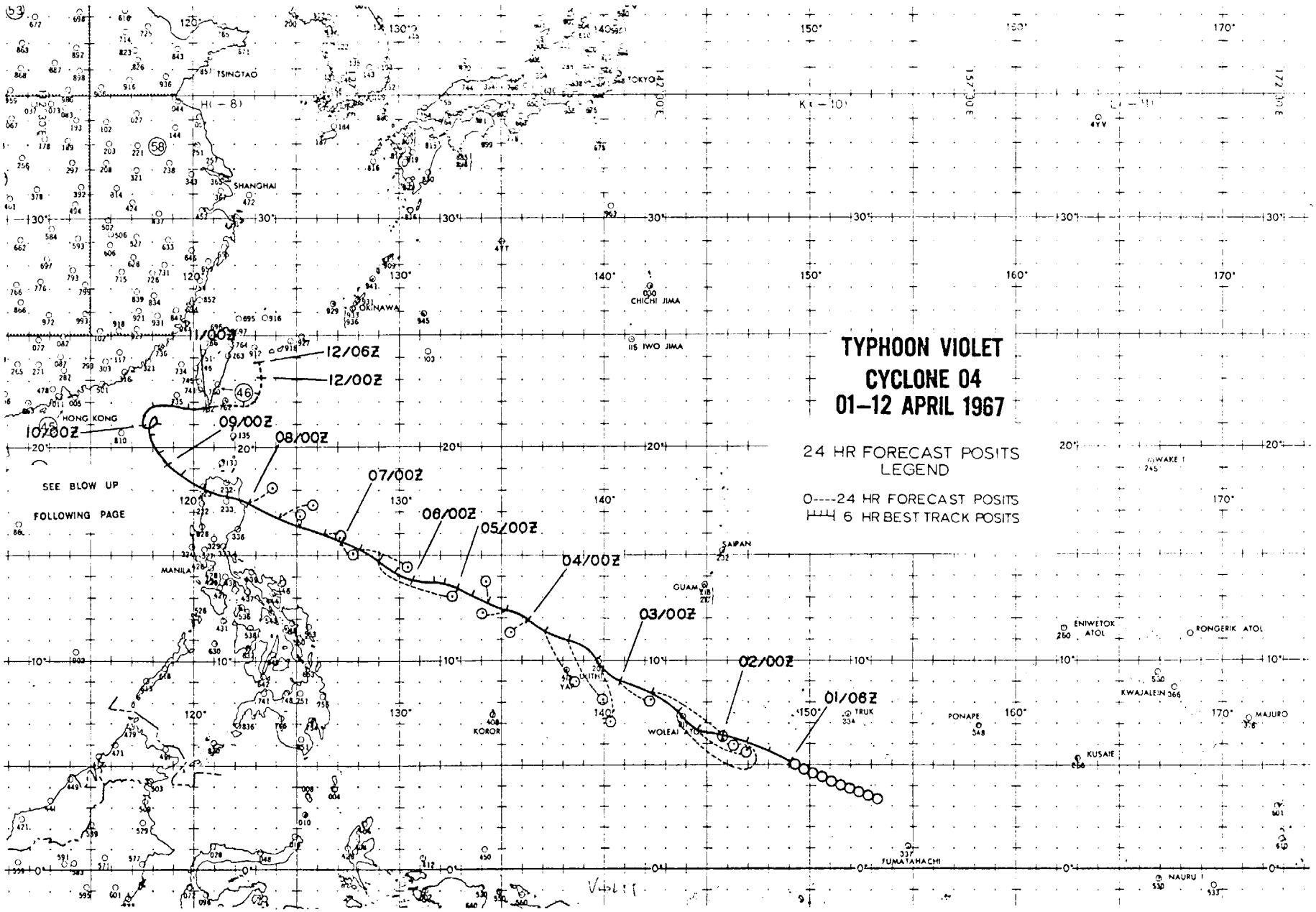
TROPICAL CYCLONE 04 -- 04/01/0600Z TO 04/12/0600Z
POSITION AND FORECAST VERIFICATION DATA

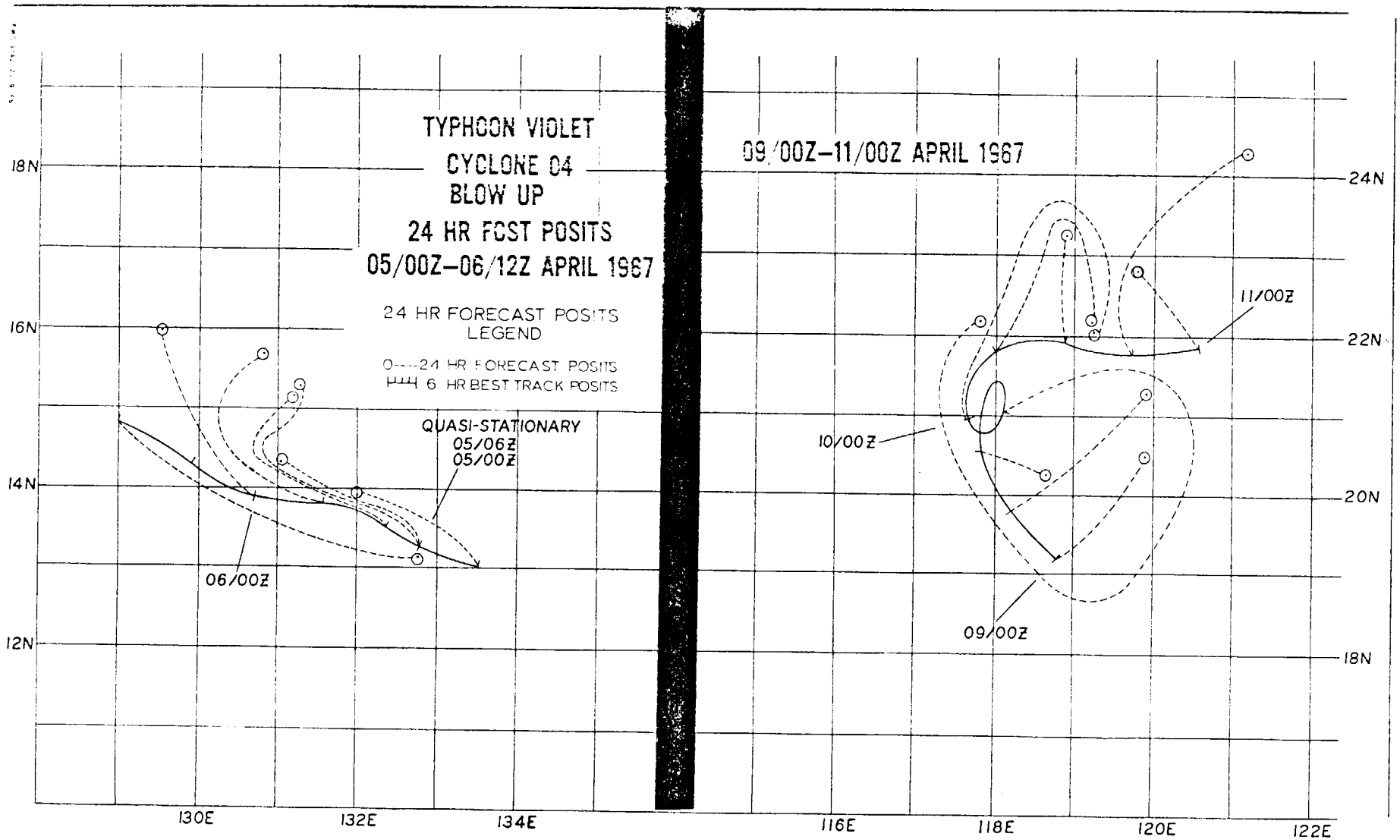
DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG. DIST.	48 HR. ERROR DEG. DIST.	72 HR. ERROR DEG. DIST.
010600Z	05.1N	149.0E	--------	--------	--------
011200Z	05.6N	148.0E	--------	--------	--------
011800Z	06.1N	147.0E	--------	--------	--------
020000Z	06.2N	145.8E	--------	--------	--------
020600Z	06.6N	144.6E	106-0144	--------	--------
021200Z	07.6N	143.6E	120-0186	--------	--------
021800Z	08.2N	142.3E	120-0234	--------	--------
030000Z	08.9N	140.8E	121-0090	--------	--------
030600Z	10.0N	139.6E	166-0174	--------	--------
031200Z	10.9N	138.3E	150-0192	--------	--------
031800Z	11.1N	137.1E	146-0150	--------	--------
040000Z	12.0N	136.3E	230-0054	133-0228	--------
040600Z	12.3N	135.2E	270-0060	165-0282	--------
041200Z	12.7N	134.3E	360-0066	152-0240	--------
041800Z	13.0N	133.5E	299-0096	157-0186	--------
050000Z	13.3N	132.8E	302-0120	282-0168	--------
050600Z	13.3N	132.8E	325-0144	290-0258	188-0288
051200Z	13.5N	132.4E	327-0120	322-0264	--------
051800Z	13.7N	131.6E	337-0120	303-0300	222-0132
060000Z	13.8N	130.7E	333-0144	302-0318	--------
060600Z	14.3N	129.9E	073-0078	342-0258	299-0360
061200Z	14.7N	129.0E	113-0228	356-0186	--------
061800Z	15.1N	128.1E	106-0144	004-0192	307-0402
070000Z	15.5N	127.2E	134-0030	016-0216	--------
070600Z	15.9N	126.3E	105-0042	085-0198	016-0348
071200Z	16.3N	125.2E	000-0030	107-0354	--------
071800Z	16.8N	124.1E	074-0102	103-0258	040-0318
080000Z	17.3N	122.8E	052-0072	090-0156	--------
080600Z	17.6N	121.7E	065-0108	080-0192	089-0360
081200Z	18.1N	120.5E	067-0102	065-0210	--------
081800Z	18.7N	119.4E	065-0096	077-0264	099-0426
090000Z	19.2N	118.7E	038-0096	063-0234	--------
090600Z	19.7N	118.2E	044-0126	066-0258	073-0408
091200Z	20.6N	117.8E	113-0042	070-0252	--------

TROPICAL CYCLONE 04 -- 04/01/0600Z TO 04/12/0600Z
POSITION AND FORECAST VERIFICATION DATA (CONT)

DTG	STORM POSITION LAT.	LONG.	24 HR. ERROR DEG.	DIST.	48 HR. ERROR DEG.	DIST.	72 HR. ERROR DEG.	DIST.
091800Z	21.1N	118.1E	349	0066	066	0216	078	0390
100000Z	20.9N	117.6E	052	0114	048	0228	--------	
100600Z	21.8N	118.0E	072	0072	052	0225	069	0396
101200Z	21.9N	118.9E	033	0096	033	0108	--------	
101800Z	21.7N	119.7E	027	0174	009	0156	053	0342

AVERAGE 24 HOUR ERROR - 0111 MI.
AVERAGE 48 HOUR ERROR - 0228 MI.
AVERAGE 72 HOUR ERROR - 0347 MI.


TYPHOON VIOLET
CYCLONE 04
01–12 APRIL 1967
24 HR FORECAST POSITS
LEGEND
0----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
SEE BLOW UP
FOLLOWING PAGE
01/06Z
02/00Z
03/00Z
04/00Z
05/00Z
06/00Z
07/00Z
08/00Z
09/00Z
10/00Z
11/00Z
12/06Z
12/00Z
TSINGTAO
SHANGHAI
TOKYO
OKINAWA
CHICHI JIMA
IWO JIMA
HONG KONG
MANILA
SAIPAN
GUAM
YAP
KOROR
WOLEAI ATOL
TRUK
PONAPE
ENIWETOK ATOL
RONGERIK ATOL
KWAJALEIN
MAJURO
KUSAIE
FUMATAHACHI
NAURU I
WAKE I


TYPHOON VIOLET
CYCLONE 04
BLOW UP
24 HR FCST POSITS
05/00Z–06/12Z APRIL 1967
24 HR FORECAST POSITS
LEGEND
O----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
QUASI-STATIONARY
05/06Z
05/00Z
06/00Z
18N
16N
14N
12N
130E
132E
134E
09/00Z–11/00Z APRIL 1967
11/00Z
10/00Z
09/00Z
24N
22N
20N
18N
116E
118E
120E
122E