TROPICAL CYCLONE 23 - 09/11/1800Z TO 09/18/0000Z

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 26
2. NUMBER OF WARNINGS WITH TYPHOON INTENSITY - 16
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 1134 MI

B. CHARACTERISTICS AS A TYPHOON

1. MINIMUM OBSERVED SLP - 943MBS AT 150330Z
2. MINIMUM OBSERVED 700MB HEIGHT - 2594M. AT 150815Z
3. MAXIMUM SURFACE WIND - 115 KTS (FROM BEST TRACK)
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - 400 MI

II. DEVELOPMENT

A. INITIAL IMPETUS - LOW LEVEL SURGE INTO CYCLONIC CIRCULATION FROM THE SOUTH WITH SUBSEQUENT DIVERGENCE AT 200MB LEVEL

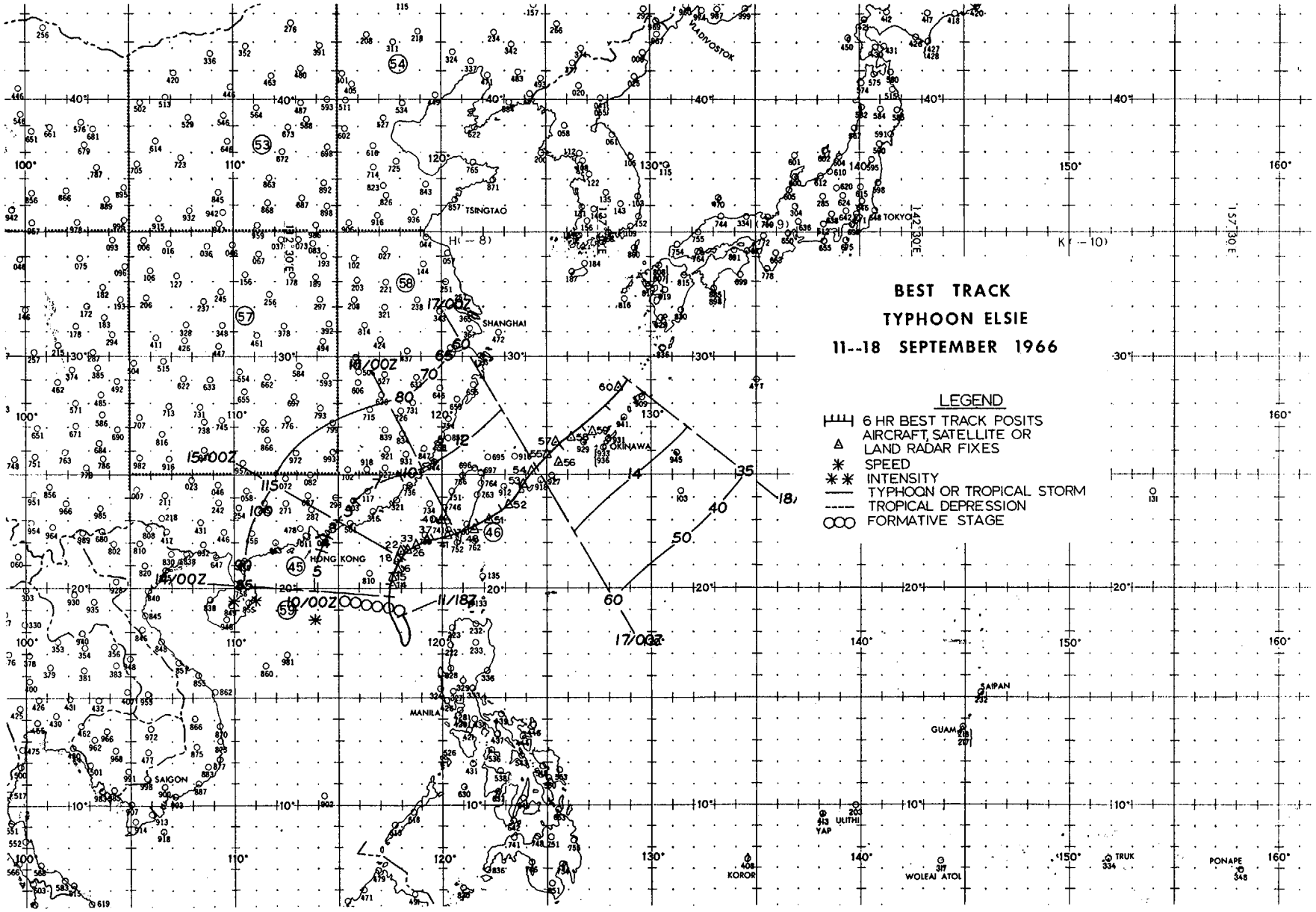
B. INITIAL SURFACE VORTEX

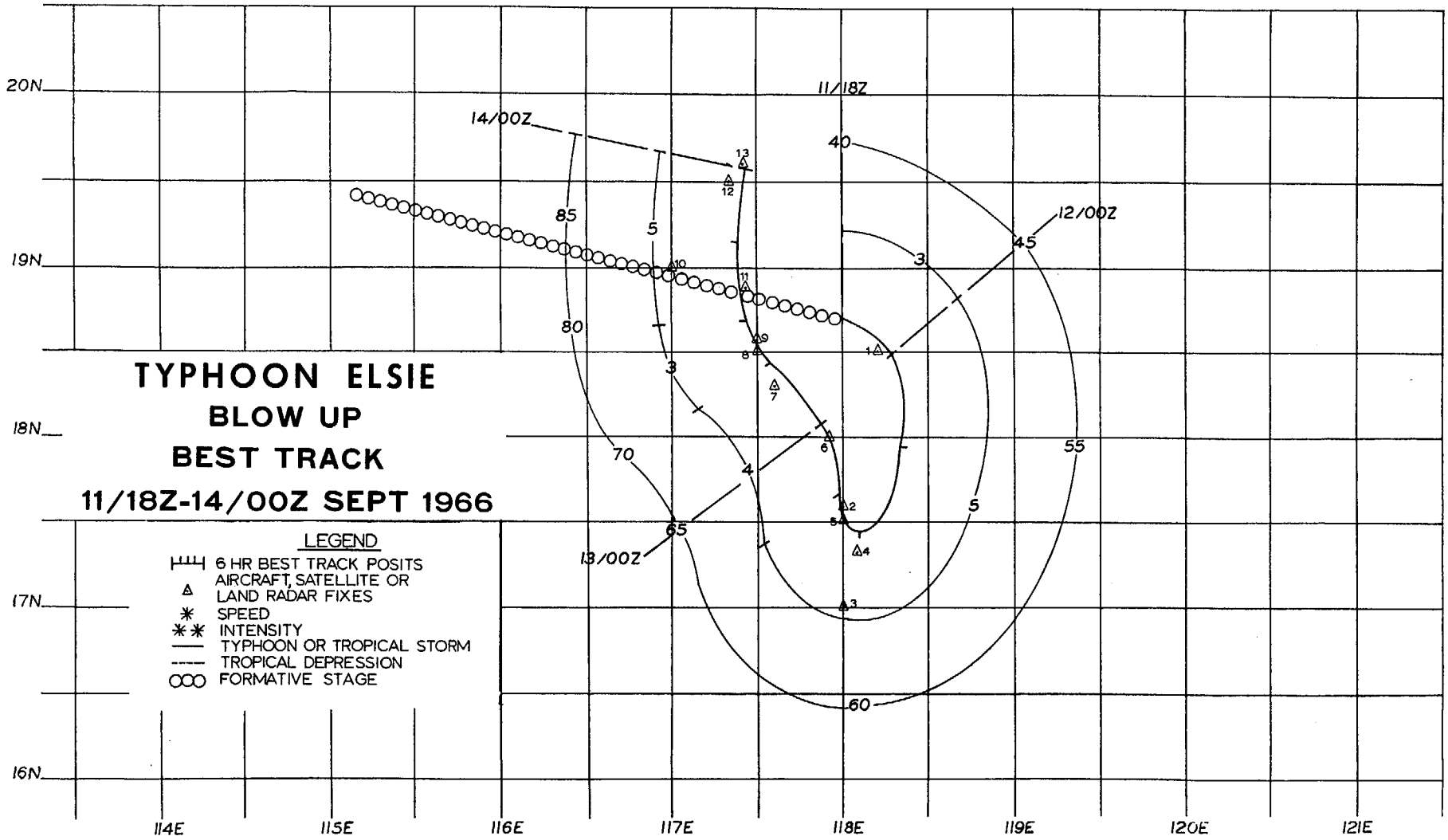
1. JUNCTION VORTEX AT 100000Z
2. SURFACE PRESSURE LESS THAN 1006MB

C. 200MB FLOW ABOVE SURFACE VORTEX

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

III. FINAL DISPOSITION - BECAME EXTRATROPICAL


BEST TRACK
TYPHOON ELSIE
11--18 SEPTEMBER 1966
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
VLADIVOSTOK
TSINGTAO
SHANGHAI
TOKYO
OKINAWA
HONG KONG
MANILA
SAIGON
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
17/00Z
18/00Z
15/00Z
14/00Z
10/00Z
11/18Z


TYPHOON ELSIE
BLOW UP
BEST TRACK
11/18Z-14/00Z SEPT 1966
LEGEND
6 HR BEST TRACK POSITS
AIRCRAFT, SATELLITE OR LAND RADAR FIXES
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
FORMATIVE STAGE
20N
19N
18N
17N
16N
114E
115E
116E
117E
118E
119E
120E
121E
14/00Z
11/18Z
12/00Z
13/00Z
85
80
70
65
60
55
45
40
5
4
3

EYE FIXES CYCLONE 23

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	120000Z	18.5N 118.2E	VW-R-P--		---	045	---	---	--/--	ELIP	NW-SE	38X23	F.B.
2	121029Z	17.6N 118.0E	54-P-P05	700MB	070	060	978	2920	19/--	CIRC	----	30	--
3	121606Z	17.0N 118.0E	TIROS	STG C	DIA --	BNDS -							
4	121650Z	17.3N 118.1E	VW-UNK--		---	---	---	---	--/--	----			--
5	121710Z	17.5N 118.0E	VW-R-P05	700MB	030	---	---	---	--/--	CIRC	----	20	10
6	122105Z	18.0N 117.9E	VW-R-P05	700MB	025	---	---	---	--/--	CIRC	----	35	--
7	130300Z	18.3N 117.6E	54-P-P03	700MB	065	070	979	2927	12/--	CIRC	----	40	--
8	130534Z	18.5N 117.5E	TIROS	STG X	DIA 04	BNDS 3							
9	130800Z	18.6N 117.5E	54-P-P03	700MB	060	080	979	2917	17/--	CIRC	----	40	--
10	131357Z	19.0N 117.0E	TIROS	STG X	DIA 05	BNDS -							
11	131515Z	18.8N 117.4E	VW-R-P03	700MB	056	---	---	---	--/--	CIRC	----	20	08
12	132150Z	19.5N 117.3E	VW-UNK02		---	---	---	---	--/--	----			--
13	132228Z	19.6N 117.4E	VW-P-P02	1380M	045	045	973	---	--/--	CIRC	----	25	F.B.
14	140325Z	20.1N 117.6E	54-P-P03	700MB	055	080	969	2841	19/--	CIRC	----	30	10
15	140821Z	20.4N 117.6E	54-P-P03	700MB	080	085	966	2807	17/--	CIRC	----	30	08
16	141455Z	20.7N 117.9E	VW-R-P02	1700M	045	---	---	---	--/--	CIRC	----	25	05
17	141600Z	20.9N 117.6E	VW-UNK02	1700M	---	---	---	---	--/--	----			--
18	142135Z	21.3N 117.7E	VW-R-P02	1400M	065	---	---	---	--/--	CIRC	----	17	08
19	142300Z	21.4N 117.7E	LND RDR		---	---	---	---	--/--	----			--
20	150200Z	21.5N 117.8E	LND RDR		---	---	---	---	--/--	----			--
21	150300Z	21.5N 117.9E	LND RDR		---	---	---	---	--/--	----			--
22	150300Z	21.6N 118.0E	LND RDR		---	---	---	---	--/--	----			--
23	150330Z	21.4N 117.8E	54-P-P03	700MB	100	050	943	2603	22/--	CIRC	----	17	05
24	150400Z	21.5N 118.0E	LND RDR		---	---	---	---	--/--	----			--

EYE FIXES CYCLONE 23

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	150500Z	21.6N 118.2E	LND RDR		---	---	---	---	--/--	----			--
26	150600Z	21.7N 118.3E	LND RDR		---	---	---	---	--/--	----			--
27	150700Z	21.7N 118.5E	LND RDR		---	---	---	---	--/--	CIRC	----	18	--
28	150800Z	21.8N 118.4E	LND RDR		---	---	---	---	--/--	CIRC	----	18	--
29	150815Z	21.7N 118.4E	54-P-P03	700MB	100	110	943	2594	20/--	CIRC	----	20	05
30	150900Z	21.8N 118.6E	LND RDR		---	---	---	---	--/--	CIRC	----	19	--
31	151000Z	21.8N 118.7E	LND RDR		---	---	---	---	--/--	----			--
32	151020Z	21.8N 118.7E	ACFT RDR		---	---	---	---	--/--	----			--
33	151100Z	21.9N 118.8E	LND RDR		---	---	---	---	--/--	----			--
34	151200Z	21.9N 119.0E	LND RDR		---	---	---	---	--/--	----			--
35	151300Z	22.0N 119.1E	LND RDR		---	---	---	---	--/--	----			--
36	151400Z	22.0N 119.2E	LND RDR		---	---	---	---	--/--	----			--
37	151500Z	22.1N 119.3E	LND RDR		---	---	---	---	--/--	----			--
38	151500Z	22.0N 118.5E	VW-R-P05	1460M	035	---	---	---	--/--	CIRC	----	15	05
39	151600Z	22.1N 119.4E	LND RDR		---	---	---	---	--/--	----			--
40	151611Z	23.0N 120.0E	TIROS	STG X	DIA 04	BNDS -							
41	151700Z	22.2N 122.2E	LND RDR		---	---	---	---	--/--	----			--
42	151800Z	19.4N 119.5E	LND RDR		---	---	---	---	--/--	----			--
43	151900Z	22.2N 119.5E	LND RDR		---	---	---	---	--/--	----			--
44	152000Z	22.3N 119.6E	LND RDR		---	---	---	---	--/--	----			--
45	152200Z	22.0N 120.0E	LND RDR		---	---	---	---	--/--	----			--
46	152205Z	22.2N 119.7E	VW-R-P02	700MB	080	065	---	---	13/11	CIRC	----	13	05
47	152300Z	22.0N 120.1E	LND RDR		---	---	---	---	--/--	----			--
48	160330Z	22.7N 120.1E	54-R-P05	5180M	060	060	---	---	--/--	CIRC	----	20	--

EYE FIXES CYCLONE 23

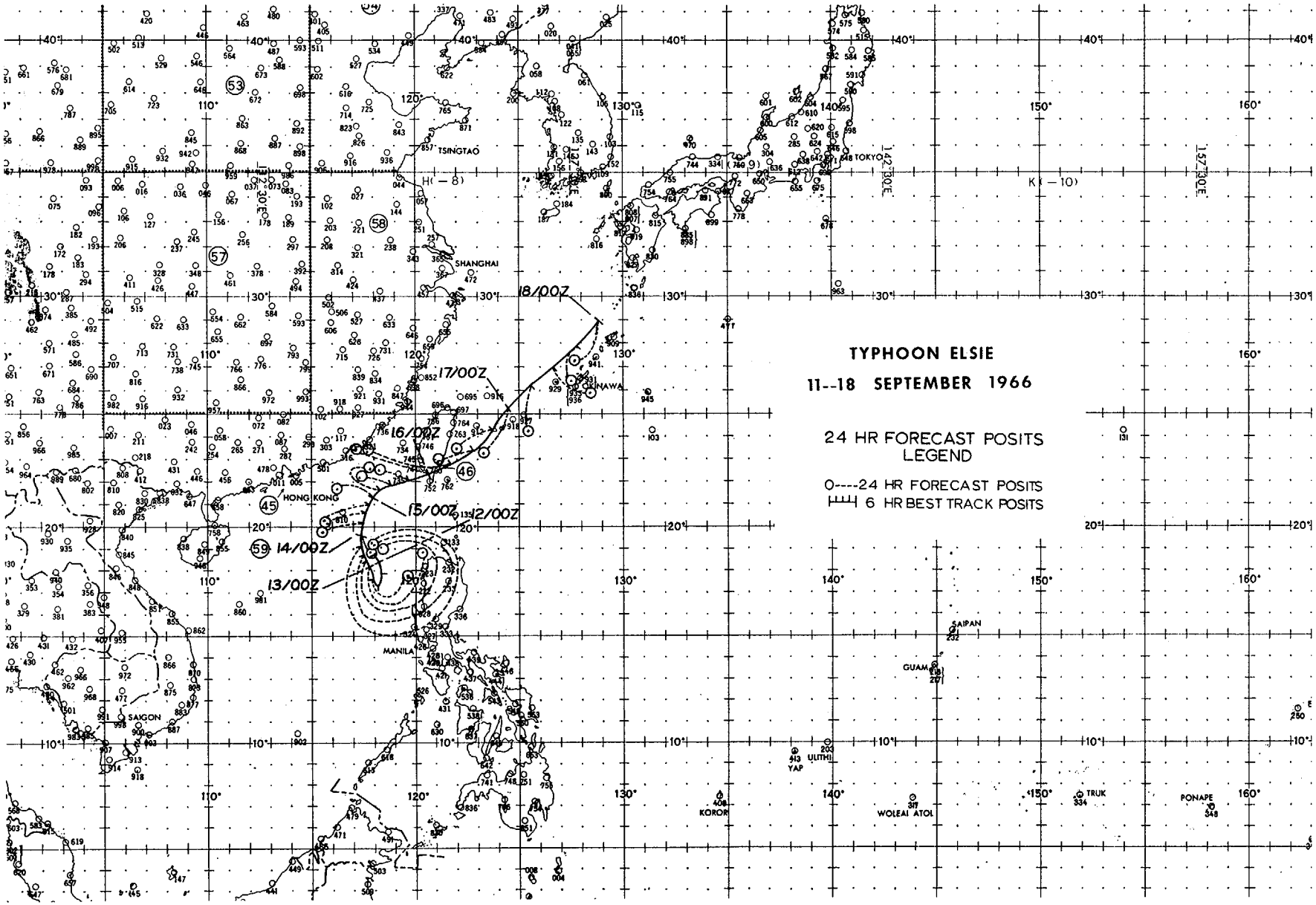
FIX NO.	TIME	POSIT	UNIT-METHOD -ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	THKNS WALL CLOUD
49	160442Z	22.6N 121.5E	54-P-P03	700MB	040	065	---	2923	19/--	CIRC	----	15	F.B.
50	160528Z	22.5N 120.5E	TIROS	STG X	DIA 02	BNDS 1							
51	160820Z	23.0N 122.1E	54-P-P03	700MB	060	070	979	2920	19/--	CIRC	----	20	10
52	161508Z	23.6N 123.1E	VW-P-P03	3240M	---	---	---	---	--/--	CIRC	----	28	F.B.
53	162145Z	24.7N 123.9E	VW-P-P02	700MB	---	045	983	---	--/--	CIRC	----	15	F.B.
54	162230Z	25.2N 124.2E	LND RDR		---	---	---	---	--/--	----			--
55	170320Z	25.9N 125.0E	54-P-P05	700MB	035	060	990	3030	17/--	----			--
56	170455Z	25.5N 125.5E	TIROS	STG C	DIA --	BNDS -							
57	170610Z	26.4N 125.4E	54-P-P05	700MB	040	075	989	---	--/--	----			F.B.
58	170855Z	26.6N 126.1E	54-P-F03	700MB	---	075	990	---	--/--	----			F.B.
59	171440Z	26.8N 127.1E	VW-P-F10	0520M	065	055	995	---	--/--	----			F.B.
60	172209Z	28.6N 128.4E	54-P-P03	0460M	035	035	998	---	--/--	CIRC	----	06	N.F.B.

TROPICAL CYCLONE 23 - 09/11/1800Z TO 09/18/0000Z

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.
111800Z	18.7N	118.0E	--------	--------	--------
120000Z	18.5N	118.3E	--------	--------	--------
120600Z	17.9N	118.3E	--------	--------	--------
121200Z	17.4N	118.1E	--------	--------	--------
121800Z	17.7N	118.0E	087-0090	--------	--------
130000Z	18.1N	117.8E	071-0144	--------	--------
130600Z	18.4N	117.6E	036-0048	--------	--------
131200Z	18.7N	117.4E	046-0042	--------	--------
131800Z	19.2N	117.4E	076-0024	--------	--------
140000Z	19.6N	117.4E	159-0048	--------	--------
140600Z	20.2N	117.5E	258-0108	238-0054	--------
141200Z	20.6N	117.6E	253-0096	237-0060	--------
141800Z	21.0N	117.7E	248-0120	245-0126	--------
150000Z	21.3N	117.8E	285-0084	230-0114	--------
150600Z	21.6N	118.2E	348-0060	256-0282	237-0204
151200Z	21.9N	118.8E	287-0078	261-0294	--------
151800Z	22.1N	119.6E	288-0072	263-0342	252-0426
160000Z	22.3N	120.6E	291-0198	282-0390	--------
160600Z	22.7N	121.8E	264-0222	315-0264	263-0606
161200Z	23.4N	122.9E	253-0096	274-0330	--------
161800Z	24.3N	123.7E	242-0102	265-0342	260-0702
170000Z	25.3N	124.4E	206-0138	--------	--------
170600Z	26.3N	125.4E	180-0120	253-0462	--------
171200Z	27.0N	126.7E	128-0102	212-0216	--------
171800Z	27.9N	127.9E	192-0090	203-0156	--------
180000Z	29.0N	128.9E	211-0114	184-0180	--------

AVERAGE 24 HOUR ERROR - 0099 MI.
AVERAGE 48 HOUR ERROR - 0240 MI.
AVERAGE 72 HOUR ERROR - 0484 MI.


TYPHOON ELSIE
11--18 SEPTEMBER 1966
24 HR FORECAST POSITS
LEGEND
O----24 HR FORECAST POSITS
6 HR BEST TRACK POSITS
18/00Z
17/00Z
16/00Z
15/00Z
14/00Z
13/00Z
12/00Z
TSINGTAO
SHANGHAI
TOKYO
NAWA
HONG KONG
MANILA
SAIGON
SAIPAN
GUAM
YAP
ULITHI
KOROR
WOLEAI ATOL
TRUK
PONAPE
H(-8)
K(-10)
(9)
53
57
58
46
45
59