WENDY

Destined to spend her entire life at sea, Wendy formed from a disturbance initiated by a circulation in the upper tropospheric mid-Pacific trough and was first noted by satellite on September 2nd east of Wake Island. This system drifted southwestward and became a tropical storm just north of Wake Island on the morning of the 4th (Figure 5-41). As the storm began a slow drift of 2-5 kt in a northwest direction during the next 24 hours, winds of typhoon force were acquired. The effects on Wake resulted in 6.24 inches of rainfall during Wendy's passage with a sustained wind of 42 kt measured on the 5th and a gust to 50 kt registered on the 6th.

Intensification of the typhoon proceeded at a rapid pace until late on the 7th when peak winds of 140 kt were reached. Reports from reconnaissance crews at this time described one of the largest and most panoramic eyes of the year--a circular, closed, wall cloud with colisium-like features encompassing an eye 40 n mi in diameter (Figure 5-42).

With Virginia skirting Japan, the subtropical ridge north of Marcus weakened considerably and began to rebuild east of Ocean Station Victor. As a reflection to this readjustment, Wendy began to stall for a 24-hour period on the 8th, then commenced a north and later northwest track. The area dominated by the storm's circulation began to spread at this time stretching over a vast region of some 900 n mi in diameter.

Wendy maintained her northwest track for two days before rounding the periphery of the ridge line. On the 11th she began a recurvature some 400 miles east of Japan (Figure 5-43). With a trough in the westerlies situated along the coast of Manchuria, the typhoon began to accelerate in forward speed from 16 kt on the 12th to 37 kt on the 13th. Dropping to storm strength and merging with a frontal system east of Hokkaido, Wendy ended her life as a tropical system on the 13th.

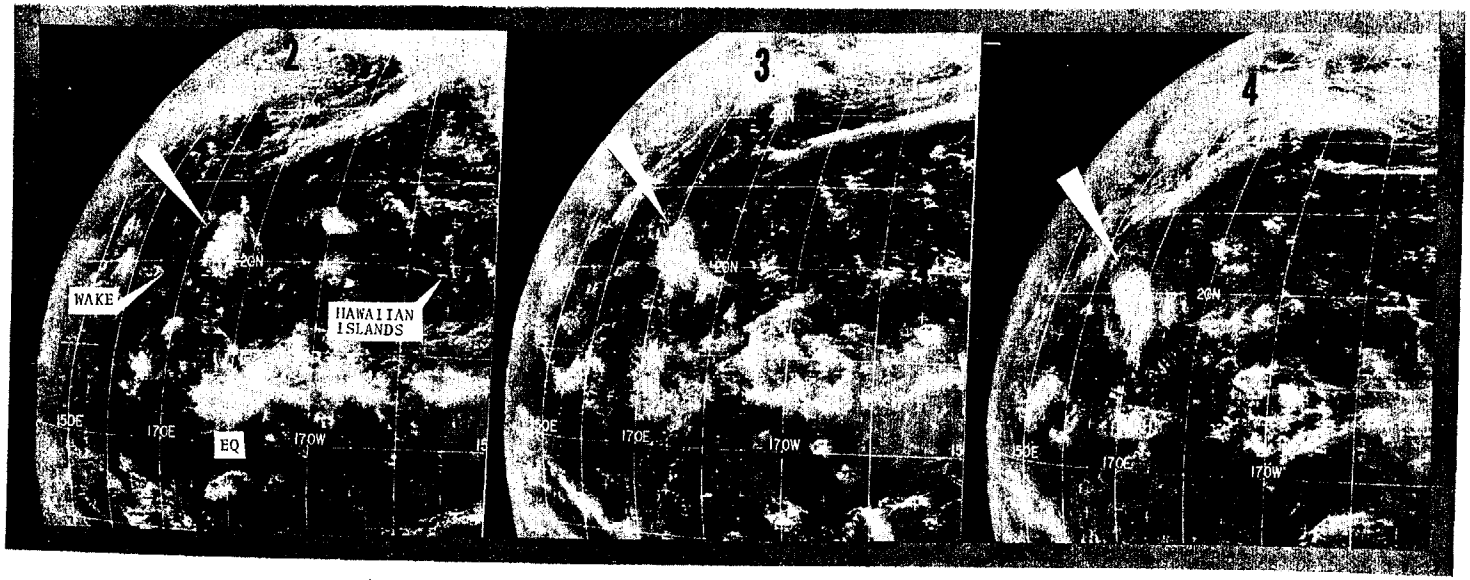
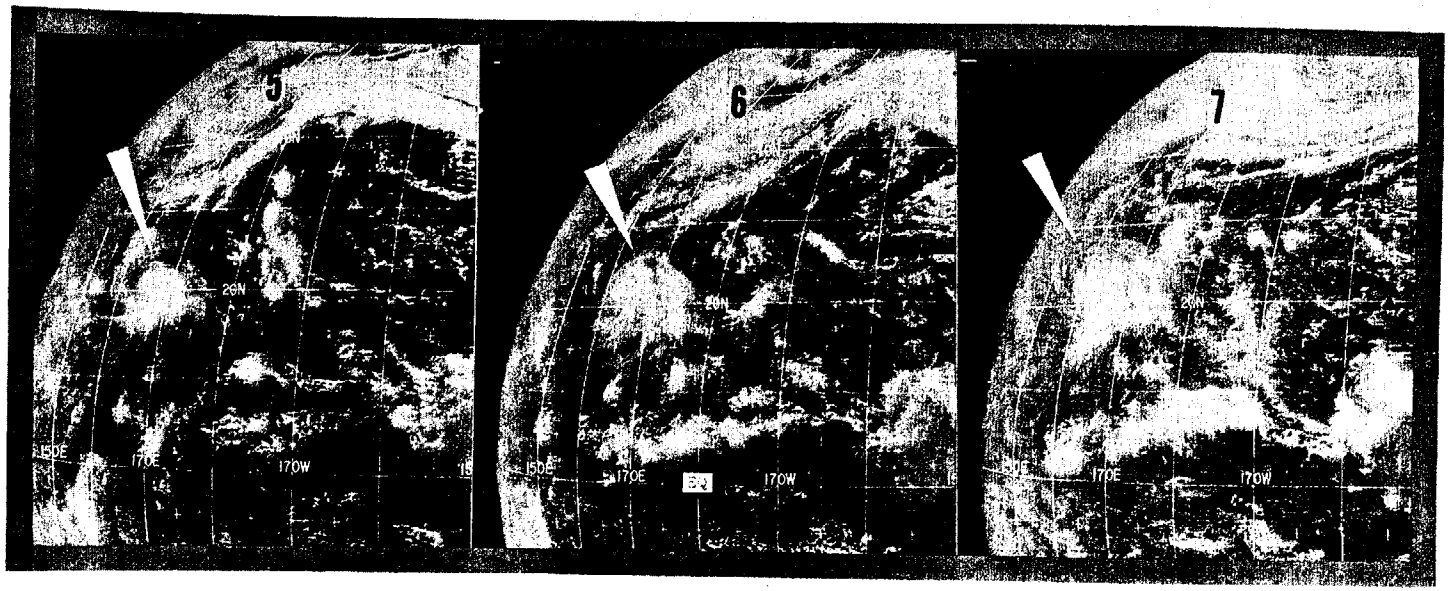


FIGURE 5-41. ATS-1 GEOSTATIONARY SATELLITE VIEW OF BIRTH AND DEVELOPMENT OF TYPHOON WENDY 2-7 SEPTEMBER.



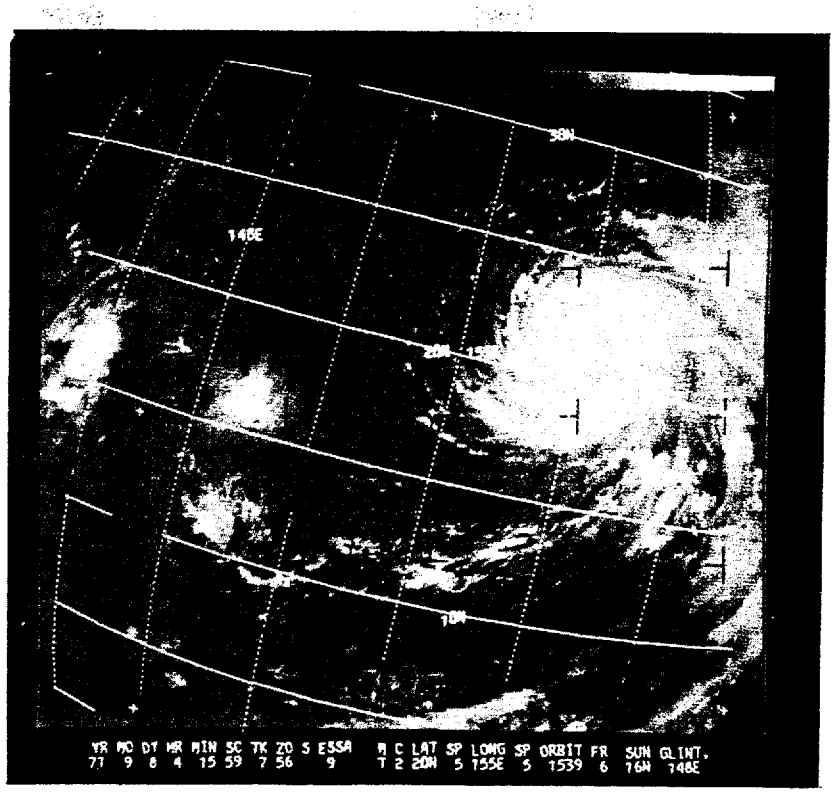


FIGURE 5-42. SUPER TYPHOON WENDY AT HER PEAK LOCATED BETWEEN MARCUS AND WAKE ISLAND AS VIEWED BY ESSA-9 ON 8 SEPTEMBER.

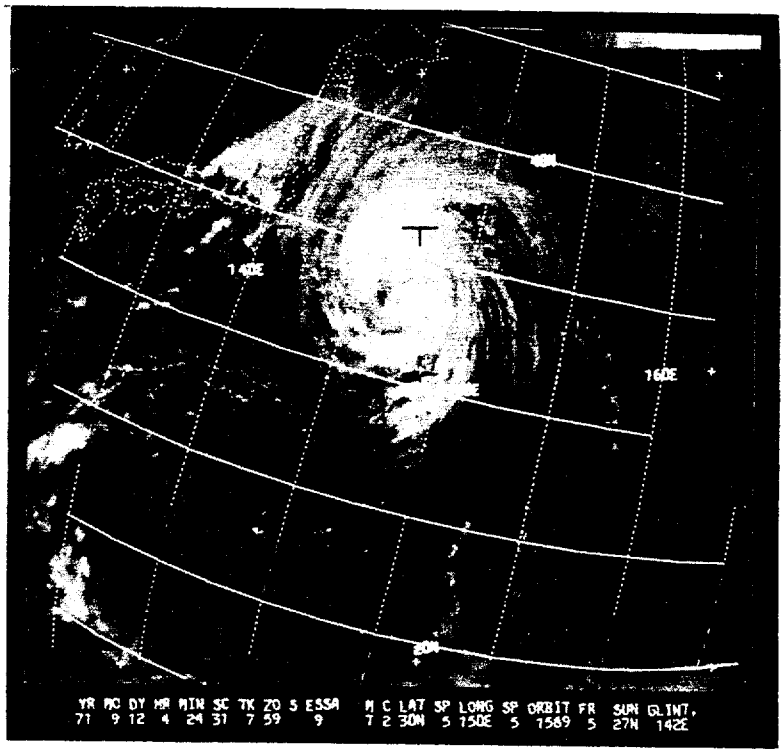


FIGURE 5-43. ESSA-9 SIGHTS TYPHOON WENDY WELL EAST OF JAPAN ON 12 SEPTEMBER.

TYPHOON WENDY
EYE FIXES FOR CYCLONE NO. 27
04 SEP - 13 SEP 71

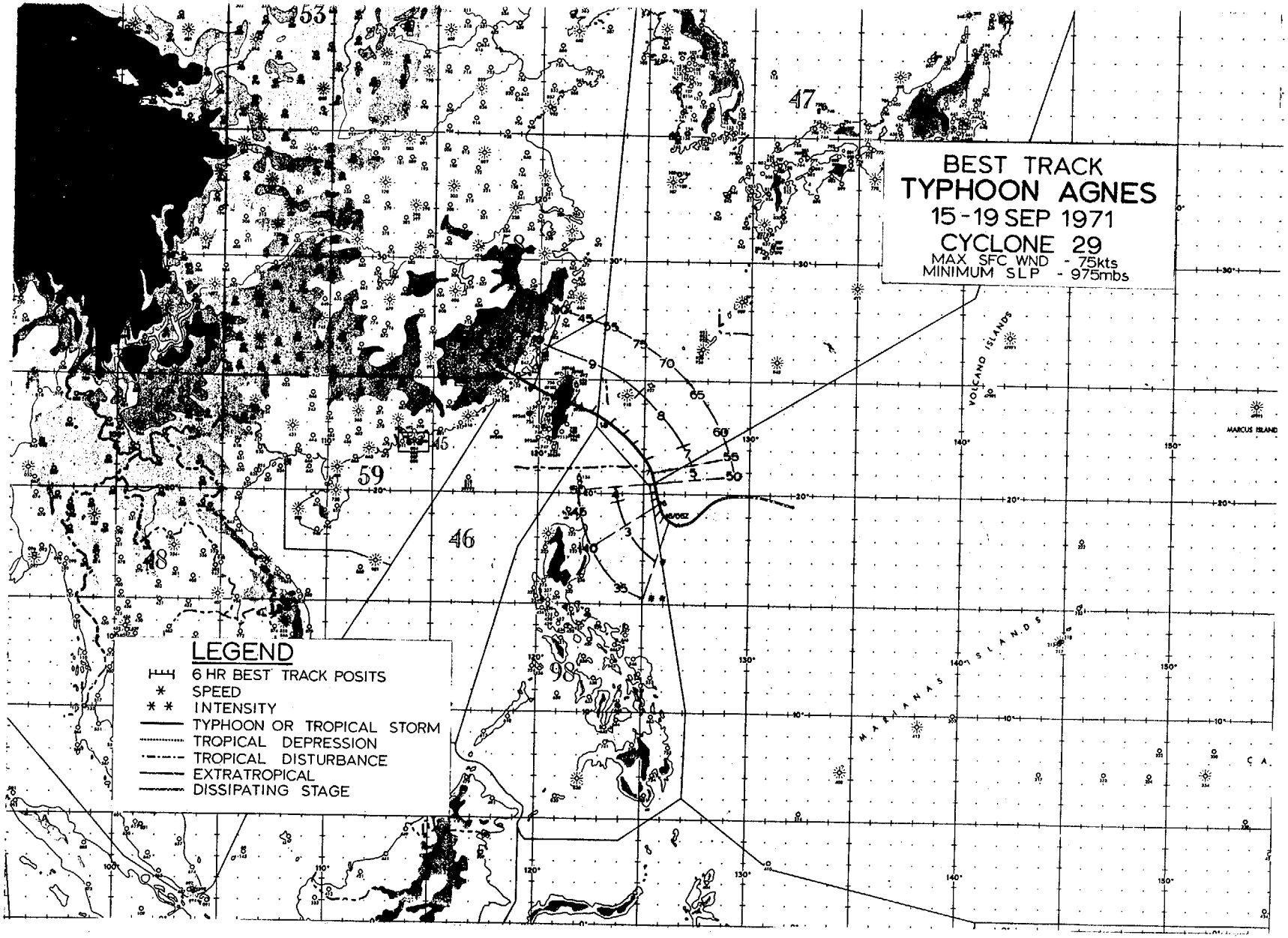
FIX NO.	TIME	POSIT	UNIT-METHOD-ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	THKN WALL CLD	REMARKS	POSIT OF RADAR
1	030313Z	22.0N 170.0E	SATELIT---	STG B										FIRST BLTN	
2	040404Z	19.0N 167.0E	SATELIT---	STG B											
3	042130Z	19.7N 166.5E	54-P- 2---	700MB	40	40	992	3012	14/14	----	-----	--	--	LGT FB ACTIVITY	
4	050315Z	19.8N 166.0E	SATELIT---	STG C+										MORE INTENSE	
5	050510Z	19.9N 166.4E	54-P- 1- 1	700MB	42	45	984	2954	12/09	CIRC		20	--	STG FB E SEMIC	
6	050810Z	20.2N 166.3E	54-P- 1- 3	700MB	50	50	982	2944	13/07	CIRC		25	--	WC FRMG E - 700 CNTR 3NM NW	
7	051630Z	20.6N 165.9E	54-P- 3-12	700MB	70	----	972	2816	20/17	CIRC		20	5	WC OPEN NW	
8	052120Z	20.7N 165.5E	54-P- 2- 8	700MB	70	75	972	2804	17/15	CIRC		30	3	WC OPEN NW-700 CNTR 8NM ESE	
9	060352Z	21.2N 164.9E	54-P- 4- 1	700MB	90	120	951	2682	16/07	CIRC		30	5	CLSD WC-700 CNTR	
10	060414Z	21.0N 165.0E	SATELIT---	STG X	DIA	2 CAT	3.5							MORE INTENSE	
11	060910Z	21.4N 164.1E	54-P- 2- 2	700MB	110	----	938	2566	17/08	CIRC		10	7	CLSD WC-FL FIX 2NM NW	
12	061615Z	21.4N 163.1E	54-P- 4- 6	700MB	75	----	926	2441	20/15	CIRC		10	5	CLSD WC	
13	062130Z	21.6N 162.7E	54-P- 5- 5	700MB	100	55	923	2408	19/14	CONC	-	20X 7	10	BOTH WC CLSD	
14	070320Z	21.5N 161.8E	54-P- 6- 6	700MB	110	135	928	2413	16/10	CONC	-	30X10	10	BOTH WC CLSD	
15	070322Z	21.2N 161.8E	SATELIT---	STG X	DIA	3 CAT	4.0							MORE INTENSE	
16	071028Z	21.6N 160.7E	54-P- 2- 3	700MB	95	----	915	2338	23/11	CONC	-	35X25	7	BOTH WC CLSD	
17	071630Z	21.4N 160.5E	54-P- 5- 5	700MB	70	----	917	2362	21/--	CIRC		35	3	CLSD WC	
18	072130Z	21.3N 159.8E	54-P- 5-10	700MB	100	----	----	----	20/16	CIRC		35	--	CLSD WC-SFC CNTR 17NM SW	
19	080355Z	21.5N 159.8E	54-P-10- 3	700MB	105	----	930	2463	17/13	CIRC		35	--	CLSD WC-FL FIX	
20	080416Z	21.5N 159.8E	SATELIT---	STG X	DIA	3 CAT	4.0							LITTLE CHANGE	
21	081117Z	21.4N 159.6E	54-P- 3---	700MB	90	----	941	2530	14/10	CIRC		40	8	CLSD WC	
22	081540Z	21.7N 159.6E	54-P- 3- 5	700MB	85	----	940	2533	16/12	CIRC		40	3	WC OPEN NW-FL FIX	
23	090002Z	22.5N 159.6E	VQ-P- 8- 7	-----	----	65	953	----	26/25	CIRC		40	10	WC OPEN NW	
24	090323Z	23.0N 159.0E	SATELIT---	STG X	DIA	3 CAT	3.0							LRG RAGGED EYE	
25	090347Z	23.1N 159.3E	VQ-P- 8- 7	-----	----	80	951	----	27/25	ELIP	NE-SW	40X25	8	WC OPEN W	
26	091020Z	24.0N 158.5E	54-P- 2- 3	700MB	76	----	948	2643	14/11	CIRC		33	--	CLSD WC	
27	091315Z	24.5N 157.9E	54-P-----	700MB	----	----	940	2573	16/--	----	-----	--	--		
28	091600Z	24.5N 158.0E	54-P- 2- 3	700MB	80	----	936	2530	15/11	ELIP	E-W	45X30	--	CLSD WC-SML BKS	
29	092155Z	25.3N 156.7E	54-P-10- 5	700MB	100	65	916	2518	18/12	ELIP	SE-NW	35X30	--	CLSD WC	
30	100300Z	26.1N 156.1E	54-------	-----	----	----	----	----	--/--	----	-----	--	--		
31	100300Z	26.1N 156.1E	54-P-17- 3	700MB	105	60	928	2490	17/13	ELIP	SE-NW	35X25	12	CLSD WC	
32	100422Z	26.5N 155.5E	SATELIT---	STG X	DIA	3 CAT	3.5							LITTLE CHANGE	
33	101050Z	27.0N 154.1E	VQ-P- 2- 2	700MB	----	----	922	2481	21/17	CIRC		30	6	CLSD WC	
34	101540Z	27.5N 153.2E	VQ-R- 8---	-----	----	----	----	----	--/--	CIRC		25	12	CLSD WC	26.3N 153.2E
35	102200Z	27.9N 151.5E	54-P- 6- 2	700MB	75	80	933	2496	15/13	CIRC		9	--	WC OPEN N	
36	110325Z	28.0N 150.5E	SATELIT---	STG X	DIA	4 CAT	3.5								
37	111015Z	29.3N 149.8E	54-P- 2- 3	700MB	70	----	948	2646	16/13	CIRC		25	--	WC OPEN NE-SW	
38	111559Z	30.0N 149.0E	54-P-10- 3	700MB	55	----	945	2609	17/14	CIRC		30	--	WC OPEN S SEMIC	
39	111805Z	30.3N 148.4E	54-P-15-10	700MB	52	----	944	2618	18/16	CIRC		30	--	WC OPEN S QUAD	
40	120330Z	32.9N 147.3E	VQ-R-30---	-----	----	----	----	----	--/--	----	-----	--	--		
41	120425Z	33.0N 147.0E	SATELIT---	STG X	DIA	4 CAT	3.0								
42	120430Z	33.3N 147.3E	VQ-P- 3- 7	-----	----	85	952	----	26/24	CIRC		27	5	WC OPEN SW	
43	121020Z	34.8N 147.1E	VQ-P- 4---	-----	----	55	951	----	26/26	CIRC		25	8	WC OPEN S	
44	121501Z	36.5N 147.0E	VQ-P- 8---	700MB	----	----	956	2749	18/16	CIRC		25	--	WC OPEN S	
45	122200Z	40.3N 148.3E	54-P- 5- 5	700MB	50	50	963	2762	15/12	CIRC		25	--	NO WC	

TYPHOON WENDY

1800Z 4 SEP TO 0000Z 13 SEP

	BEST TRACK		WARNING				24 HOUR FORECAST				48 HOUR FORECAST				72 HOUR FORECAST			
					ERRORS				ERRORS				ERRORS				ERRORS	
	POSIT	WIND	POSIT	WIND	DST	WIND	POSIT	WIND	DST	WIND	POSIT	WIND	DST	WIND	POSIT	WIND	DST	WIND
041800Z	19.6N 166.7E	35	20.0N 166.0E	30	46	-5	20.0N 163.8E	45	109	-30	--.- ---.-	--	--	--	--.- ---.-	--	--	--
050000Z	19.8N 166.5E	40	19.7N 166.2E	45	18	5	20.1N 163.3E	70	119	-20	20.8N 160.0E	75	126	-55	21.9N 157.3E	80	143	-50
050600Z	20.0N 166.3E	50	19.9N 166.4E	50	8	0	20.0N 165.8E	65	106	-45	20.8N 163.8E	75	142	-60	--.- ---.-	--	--	--
051200Z	20.3N 166.0E	60	20.3N 166.1E	55	6	-5	21.1N 164.7E	70	55	-55	21.5N 161.7E	80	61	-60	21.5N 158.3E	90	67	-85
051800Z	20.7N 165.6E	75	20.7N 165.8E	65	11	-10	21.3N 163.8E	80	53	-50	21.5N 160.4E	90	21	-45	--.- ---.-	--	--	--
060000Z	21.0N 165.2E	90	20.7N 165.3E	75	19	-15	20.9N 162.7E	100	54	-30	20.9N 158.9E	110	56	-20	20.5N 154.2E	120	313	15
060600Z	21.3N 164.5E	110	21.2N 164.6E	110	8	0	21.8N 161.7E	120	20	-15	21.7N 157.4E	130	128	5	--.- ---.-	--	--	--
061200Z	21.5N 163.8E	125	21.5N 163.8E	115	0	-10	21.8N 160.0E	135	38	-5	21.5N 155.3E	140	234	25	21.4N 150.1E	140	485	30
061800Z	21.6N 162.9E	130	21.5N 162.8E	120	8	-10	21.4N 158.3E	140	100	5	21.3N 153.1E	140	357	25	--.- ---.-	--	--	--
070000Z	21.6N 162.1E	130	21.5N 162.3E	125	13	-5	21.4N 158.2E	140	89	10	21.3N 153.6E	140	329	35	21.4N 149.0E	140	484	25
070600Z	21.6N 161.4E	135	21.5N 161.4E	130	6	-5	21.5N 157.3E	150	133	25	21.4N 152.7E	145	371	40	--.- ---.-	--	--	--
071200Z	21.5N 160.6E	140	21.5N 160.4E	135	11	-5	21.4N 156.2E	150	184	35	21.6N 151.5E	145	408	35	22.7N 146.9E	140	465	25
071800Z	21.3N 160.1E	135	21.5N 159.8E	140	21	5	21.4N 155.8E	145	207	30	21.7N 151.2E	145	395	30	--.- ---.-	--	--	--
080000Z	21.3N 159.8E	130	21.2N 159.1E	140	39	10	20.9N 155.3E	145	247	40	21.5N 151.1E	140	388	25	22.5N 147.4E	135	400	35
080600Z	21.5N 159.7E	125	21.4N 159.6E	135	8	10	21.2N 156.3E	130	199	25	21.3N 152.9E	130	337	10	--.- ---.-	--	--	--
081200Z	21.4N 159.5E	115	21.4N 159.5E	120	0	5	21.2N 157.6E	120	179	10	21.1N 155.1E	120	370	5	21.4N 151.7E	120	499	30
081800Z	21.8N 159.5E	115	21.7N 159.4E	120	8	5	21.7N 158.1E	120	194	5	21.7N 155.6E	120	396	10	--.- ---.-	--	--	--
090000Z	22.5N 159.4E	105	22.3N 159.6E	110	16	5	24.2N 158.6E	105	145	-10	25.9N 156.8E	100	335	0	27.6N 154.3E	100	429	15
090600Z	23.3N 159.1E	105	23.4N 159.2E	105	8	0	25.5N 157.4E	100	128	-20	27.2N 154.9E	100	268	5	--.- ---.-	--	--	--
091200Z	24.1N 158.4E	110	24.1N 158.3E	105	5	-5	26.3N 154.8E	115	72	0	28.1N 152.5E	115	183	25	30.3N 150.5E	105	352	30
091800Z	24.9N 157.5E	115	24.8N 157.8E	115	17	0	27.3N 155.0E	115	135	5	29.4N 152.3E	110	206	20	--.- ---.-	--	--	--
100000Z	25.7N 156.5E	115	25.5N 156.4E	115	13	0	27.7N 152.4E	120	77	20	30.5N 149.2E	115	113	30	--.- ---.-	--	--	--
100600Z	26.5N 155.3E	120	26.5N 155.7E	110	21	-10	29.3N 152.3E	100	112	5	32.4N 150.6E	80	187	0	--.- ---.-	--	--	--
101200Z	27.2N 153.9E	115	27.2N 153.9E	110	0	-5	30.3N 150.0E	100	57	10	33.6N 149.0E	80	144	5	--.- ---.-	--	--	--
101800Z	27.7N 152.5E	110	27.8N 152.8E	110	17	0	31.1N 149.6E	100	70	10	34.3N 149.1E	80	233	15	--.- ---.-	--	--	--
110000Z	28.3N 151.1E	100	28.0N 151.0E	100	19	0	30.0N 146.0E	95	135	10	--.- ---.-	--	--	--	--.- ---.-	--	--	--
110600Z	28.9N 150.2E	95	28.5N 149.6E	100	39	5	30.8N 145.2E	85	188	5	--.- ---.-	--	--	--	--.- ---.-	--	--	--
111200Z	29.5N 149.4E	90	29.3N 149.2E	95	16	5	32.0N 146.9E	80	210	5	--.- ---.-	--	--	--	--.- ---.-	--	--	--
111800Z	30.4N 148.5E	90	30.2N 148.8E	95	20	5	33.8N 147.2E	80	252	15	--.- ---.-	--	--	--	--.- ---.-	--	--	--
120000Z	31.8N 147.6E	85	31.3N 147.6E	85	30	0	--.- ---.-	--	--	--	--.- ---.-	--	--	--	--.- ---.-	--	--	--
120600Z	33.5N 147.1E	80	33.7N 147.4E	80	19	0	--.- ---.-	--	--	--	--.- ---.-	--	--	--	--.- ---.-	--	--	--
121200Z	35.5N 147.2E	75	35.3N 147.1E	75	13	0	--.- ---.-	--	--	--	--.- ---.-	--	--	--	--.- ---.-	--	--	--
121800Z	38.0N 147.6E	65	37.5N 147.9E	65	33	0	--.- ---.-	--	--	--	--.- ---.-	--	--	--	--.- ---.-	--	--	--

	TYPHOONS WHILE WIND OVER 35KTS				ALL FORECASTS			
	WARNING	24-HR	48-HR	72-HR	WARNING	24-HR	48-HR	72-HR
AVERAGE FORECAST ERROR	16NM	126NM	241NM	364NM	16NM	126NM	241NM	364NM
AVERAGE RIGHT ANGLE ERROR	9NM	74NM	160NM	258NM	9NM	74NM	160NM	258NM
AVERAGE MAGNITUDE OF WIND ERROR	5KTS	19KTS	24KTS	34KTS	5KTS	19KTS	24KTS	34KTS
AVERAGE BIAS OF WIND ERROR	-1KTS	-0KTS	4KTS	7KTS	-1KTS	-0KTS	4KTS	7KTS
NUMBER OF FORECASTS	33	29	24	10	33	29	24	10


BEST TRACK
TYPHOON AGNES
15-19 SEP 1971
CYCLONE 29
MAX SFC WND - 75kts
MINIMUM SLP - 975mbs
LEGEND
6 HR BEST TRACK POSITS
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
TROPICAL DISTURBANCE
EXTRATROPICAL
DISSIPATING STAGE
VOLCANO ISLANDS
MARIANAS ISLANDS
MARCUS ISLAND
53
47
45
59
46
48
98