AGNES

The weak circulation which was to become Agnes had been followed on synoptic charts for close to a week in the west central Philippine Sea. On September 14th, satellite data and aircraft reconnaissance indicated signs of development, and by the following afternoon, September's third tropical storm had formed.

Guided by an extension of the subtropical ridge to the Ryukyus, Agnes slowly edged northward (Figure 5-44) and then shifted to a westerly course while she intensified to a typhoon on the 17th. Possible recurvature existed with a trough in the westerlies approaching the northern Yellow Sea at this time; however, its influence was not felt and Agnes followed the weak ridge making landfall on Taiwan between Hualein and Ilan early on the evening of the 18th (Figure 5-45). After crossing the Taiwan straits, Agnes arrived on the China mainland near Nanchang and dissipated as she moved inland.

Winds of 58 kt gusting to 78 kt were felt on the islands offshore of northeastern Taiwan while heavy rainfall produced by typhoon Agnes amounted up to 17.4 inches in 48 hours at Anpu in the mountainous terrain of the island. Flooding in Taipei was reported extremely serious as much of the lower areas of the city were badly flooded. Over 100 dwellings were partially or totally destroyed by the flooding; one person was reported killed and five others missing due to the typhoon.

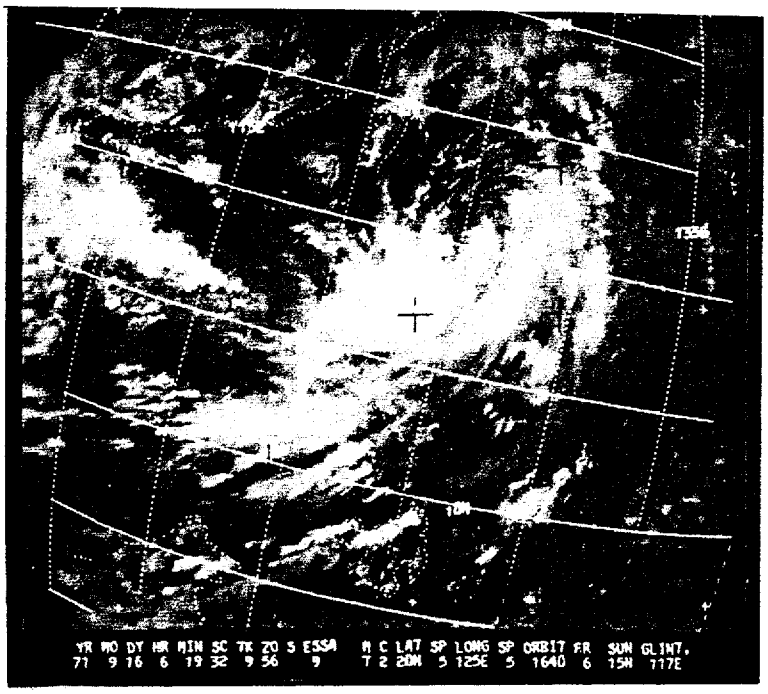


FIGURE 5-44. TROPICAL STORM AGNES NORTHEAST OF LUZON ON 16 SEPTEMBER.

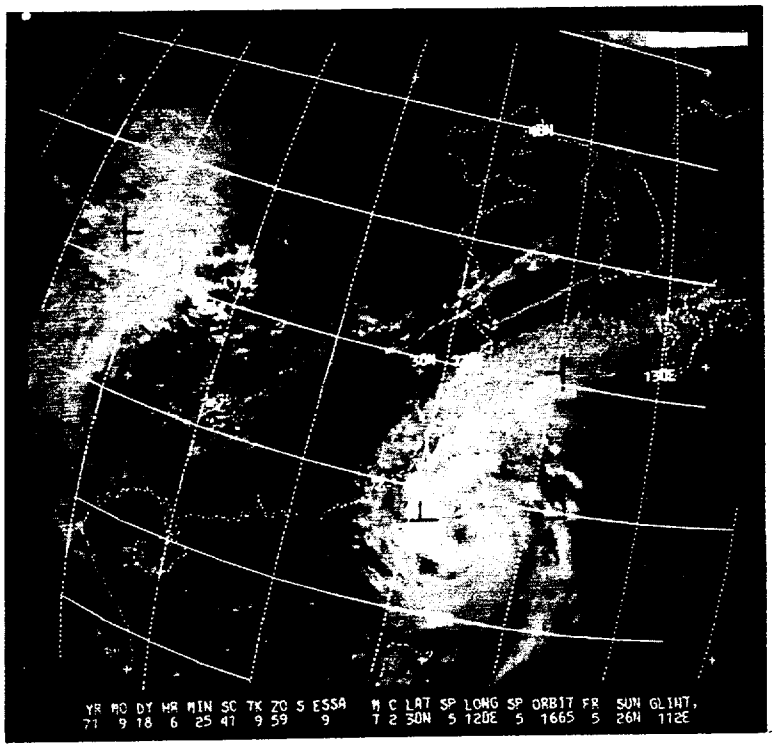


FIGURE 5-45. TYPHOON AGNES IS SIGHTED BY ESSA-9 ON 18 SEPTEMBER PRIOR TO LANDFALL ON TAIWAN.

TYPHOON AGNES
EYE FIXES FOR CYCLONE NO. 29
15 SEP - 19 SEP 71

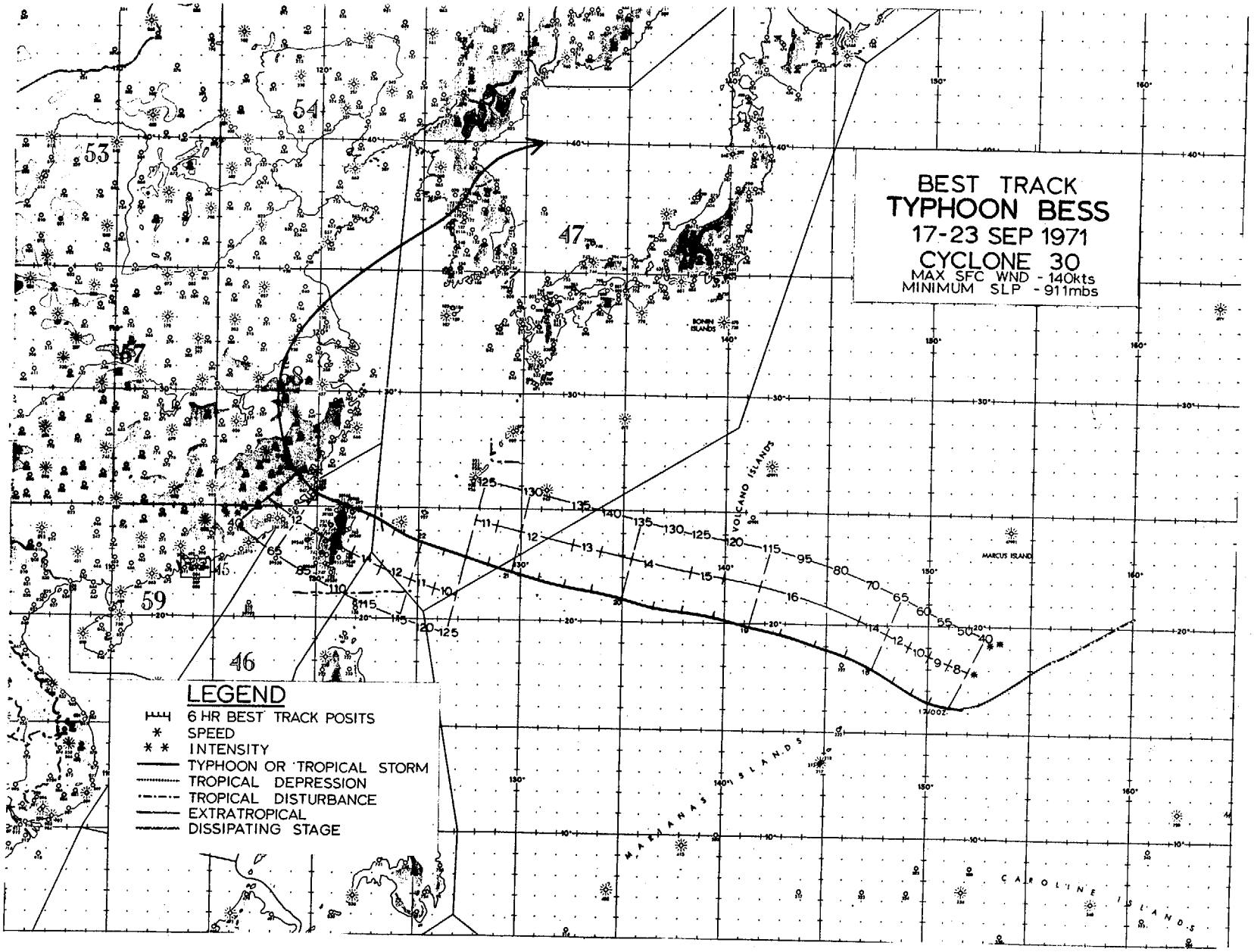
FIX NO.	TIME	POSIT	UNIT-METHOD -ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	THKN WALL CLD	REMARKS	POSIT OF RADAR
1	1305192	16.0N 127.5E	SATELLI---	STG H										FIRST BLTN	
2	1400182	16.0N 126.0E	SATELLI---	STG R										LESS ORGANIZED	
3	1405532	19.5N 124.1E	VQ-P- 5-20	-----	----	25	1000	----	25/25	CIRC		35	--	NO ORGANIZ ON RDR	
4	1500002	18.3N 127.0E	54-P-------	700MB	35	----	----	----	--/--	----	-----	--	--	700MB WIND CNTR	
5	1505212	19.0N 126.5E	SATELLI---	STG C										BETTER ORGANIZED	
6	1510302	19.1N 125.8E	54-P- 5-15	700MB	40	----	997	3027	08/08	----	-----	--	--	700MB WIND CNTR	
7	1521202	19.4N 125.8E	54-P- 5- 5	700MB	40	35	992	3005	08/08	----	-----	--	--	NO RDR PRES	
8	1600202	21.5N 125.5E	SATELLI---	STG C										LITTLE CHANGE	
9	1610002	19.4N 125.5E	54-P- 2-28	700MB	50	30	994	2987	09/08	----	-----	--	--	NO RDR PRES	
10	1610002	20.3N 125.8E	VQ-P-16- 5	-----	----	55	991	----	26/22	CIRC		30	--	POORLY ORGANIZED	
11	1621012	21.1N 125.0E	VQ-P-15- 5	-----	----	40	987	----	26/25	CIRC		45	--	MCMG MORE ORGANIZ	
12	1704152	21.3N 125.2E	54-P- 5-15	700MB	40	35	989	2947	12/11	----	-----	--	--	NO WC-700MB CNTR	
13	1705222	21.5N 125.0E	SATELLI---	STG C+										SNM W STRONGER	
14	1707002	21.7N 125.1E	54-P- 5- 5	700MB	45	40	980	2917	11/11	----	-----	--	--	SAME AS 04157 RMK	
15	1710002	22.3N 124.7E	54-P- 5- 5	700MB	50	45	970	2905	12/09	----	-----	--	--	NO WC	
16	1710402	22.5N 124.3E	LND RDR---							----	-----	--	--	TAIWAN RDR	
17	1719552	22.8N 124.2E	LND RDR---							----	-----	--	--	STN 46699	24.0N 121.6E
18	1721002	23.2N 124.2E	LND RDR---							----	-----	--	--	STN 46699	24.0N 121.6E
19	1722152	23.0N 123.8E	LND RDR---							----	-----	--	--	STN 47927	24.8N 123.3E
20	1721202	23.3N 123.8E	LND RDR---							----	-----	--	--	TAIWAN RDR	
21	1723002	23.3N 123.8E	LND RDR---							----	-----	--	--	TAIWAN RDR	
22	1723252	23.0N 123.1E	LND RDR---							----	-----	--	--	GOOD FIX-47927	24.8N 123.3E
23	1801002	23.3N 123.0E	LND RDR---							----	-----	--	--	POOR FIX-47918	24.3N 124.2E
24	1801052	23.1N 123.2E	VQ-P-15-10	-----	----	70	961	----	27/23	CIRC		40	--	NO WC-SST 85 DEG	
25	1803002	23.8N 122.8E	LND RDR---							----	-----	--	--	STN 47918	24.3N 124.2E
26	1803552	23.5N 123.1E	VQ-P- 5- 5	-----	----	60	979	----	27/22	CIRC		40	--	NO WC	
27	1805552	23.5N 122.8E	LND RDR---							----	-----	--	--	STN 47763	34.0N 131.5E
28	1805302	23.3N 122.8E	LND RDR---							----	-----	--	--	STN 47927	24.8N 123.3E
29	1805402	23.0N 122.5E	LND RDR---							----	-----	--	--	STN 47763	34.0N 131.5E
30	1806252	23.5N 122.5E	SATELLI---	STG A	DIA	3	CAT	4.0						STRONGER	
31	1806342	23.7N 122.8E	VQ-P-10- 5	700MB	----	----	978	2880	16/13	CIRC		35	--	NO WC-SST 85 DEG	
32	1807402	23.9N 122.7E	LND RDR---							----	-----	--	--	FUCHU RDR	
33	1808202	24.0N 122.5E	LND RDR---							----	-----	--	--		
34	1810302	23.8N 122.3E	54-P- 5-15	400MB	60	----	----	----	-7/-9	----	-----	--	--	NO RDR PRES	
35	1822002	24.0N 120.1E	LND RDR---							----	-----	--	--	TAIWAN RDR	

TYPHOON AGNES

0600Z 15 SEP TO 0600Z 19 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
150600Z	18.8N 126.3E	35	18.2N	126.4E	30	36	-5	18.2N	124.2E	40	128	0	--.-	---.-	--	--	--	--.-	---.-	--	--	--
151200Z	19.0N 126.0E	35	18.2N	125.9E	30	48	-5	18.2N	123.4E	45	172	0	--.-	---.-	--	--	--	--.-	---.-	--	--	--
151800Z	19.2N 125.8E	40	18.8N	125.7E	30	25	-10	18.7N	123.3E	45	165	-5	--.-	---.-	--	--	--	--.-	---.-	--	--	--
160000Z	19.5N 125.7E	40	19.4N	125.6E	30	8	-10	20.3N	124.0E	45	86	-10	--.-	---.-	--	--	--	--.-	---.-	--	--	--
160600Z	19.8N 125.7E	40	19.8N	125.2E	30	28	-10	21.2N	123.3E	45	103	-15	--.-	---.-	--	--	--	--.-	---.-	--	--	--
161200Z	20.1N 125.7E	45	19.5N	125.3E	30	42	-15	20.2N	124.0E	50	124	-15	--.-	---.-	--	--	--	--.-	---.-	--	--	--
161800Z	20.4N 125.6E	50	20.4N	125.8E	45	11	-5	21.4N	125.1E	55	99	-10	22.8N	124.3E	60	217	15	--.-	---.-	--	--	--
170000Z	20.9N 125.4E	55	21.3N	124.7E	45	46	-10	23.9N	122.7E	55	58	-15	27.0N	122.5E	60	200	20	--.-	---.-	--	--	--
170600Z	21.6N 125.1E	60	21.4N	125.0E	45	13	-15	23.5N	123.4E	55	50	-20	25.9N	122.2E	60	188	25	--.-	---.-	--	--	--
171200Z	22.2N 124.6E	65	22.5N	124.5E	45	19	-20	24.9N	123.7E	60	124	5	--.-	---.-	--	--	--	--.-	---.-	--	--	--
171800Z	22.7N 124.0E	65	23.2N	124.3E	50	34	-15	25.9N	123.8E	60	193	15	--.-	---.-	--	--	--	--.-	---.-	--	--	--
180000Z	23.1N 123.3E	70	23.2N	123.4E	65	8	-5	25.6N	122.0E	75	131	35	--.-	---.-	--	--	--	--.-	---.-	--	--	--
180600Z	23.6N 122.5E	75	23.7N	122.7E	70	12	-5	26.8N	122.4E	65	216	30	--.-	---.-	--	--	--	--.-	---.-	--	--	--
181200Z	24.1N 121.6E	55	24.3N	121.9E	70	20	15	--.-	---.-	--	--	--	--.-	---.-	--	--	--	--.-	---.-	--	--	--
181800Z	24.3N 120.7E	45	24.3N	121.3E	65	33	20	--.-	---.-	--	--	--	--.-	---.-	--	--	--	--.-	---.-	--	--	--
190000Z	24.7N 119.8E	40	24.3N	119.9E	50	25	10	--.-	---.-	--	--	--	--.-	---.-	--	--	--	--.-	---.-	--	--	--
190600Z	25.2N 118.8E	35	25.1N	118.8E	40	6	5	--.-	---.-	--	--	--	--.-	---.-	--	--	--	--.-	---.-	--	--	--

	TYPHOONS WHILE WIND OVER 35KTS				ALL FORECASTS			
	WARNING	24-HR	48-HR	72-HR	WARNING	24-HR	48-HR	72-HR
AVERAGE FORECAST ERROR	24NM	127NM	201NM	0NM	24NM	127NM	201NM	0NM
AVERAGE RIGHT ANGLE ERROR	19NM	94NM	102NM	0NM	19NM	94NM	102NM	0NM
AVERAGE MAGNITUDE OF WIND ERROR	11KTS	13KTS	20KTS	0KTS	11KTS	13KTS	20KTS	0KTS
AVERAGE BIAS OF WIND ERROR	-5KTS	-0KTS	20KTS	0KTS	-5KTS	-0KTS	20KTS	0KTS
NUMBER OF FORECASTS	17	13	3	0	17	13	3	0


BEST TRACK
TYPHOON BESS
17-23 SEP 1971
CYCLONE 30
MAX SFC WND - 140kts
MINIMUM SLP - 911mbs
LEGEND
6 HR BEST TRACK POSITS
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
TROPICAL DISTURBANCE
EXTRATROPICAL
DISSIPATING STAGE
BONIN ISLANDS
VOLCANO ISLANDS
MARCUS ISLAND
MARIANAS ISLANDS
CAROLINE ISLANDS