

FAYE

Faye was first sighted as a weak entity in satellite pictures south of Johnson Island as early as September 27th. Ill-defined, the system drifted west-northwest for a week making passage near Eniwetok on the 3rd as the U.S. Coast Guard station on the atoll reported a sharp wind shift. By the 4th, satellite pictures detected signs of organization in the cloudiness. An aircraft investigation early the following morning located a tropical storm with 50-kt peak winds some 700 n mi east of the Marianas (Figure 5-51).

As a high cell began to build north of Marcus Island, Faye sailed along at 16 to 21 kt, briefly reaching typhoon strength late on the 5th. Returned to tropical-storm classification, Faye passed just north of Saipan the following afternoon. A strong band of wind associated with the storm was located across the north semicircle. The U.S. Coast Guard station on Saipan, which was south of the center, recorded only southwesterly winds at 15 kt during passage.

Faye continued on a westerly heading during the next 24 hours gradually weakening and appearing to dissipate late on the 7th. With a rather complex circulation pattern in the Philippine Sea at this time, it is possible that the system may have been absorbed in a larger circulation to the south. However, for the two-day period of October 8th and 9th, all available reconnaissance, surface and satellite data indicate a considerable amount of uncertainty in this portion of Faye's track. Redevelopment over the Philippines may possibly not have been retraceable to the initial system.

After regaining minimal storm strength on the 9th in the Lamon Bay region, Faye crossed Luzon on a westerly track north of Manila. Once in the South China Sea, she intensified to typhoon strength (Figure 5-52) but then grinded to a halt on the 11th 45 n mi northeast of Scarborough Shoals. With the deepening of a trough in the westerlies extending from Korea to Taiwan, steering currents were initially weak, then as the northwesterly flow behind the trough began to take hold, Faye began to track southeastward.

Commencing a highly unusual track, Faye cut across Luzon for the second time, by then weakened to tropical-storm force. The storm passed south of Manila, then into Lamon Bay after being greatly modified by the northerly flow.

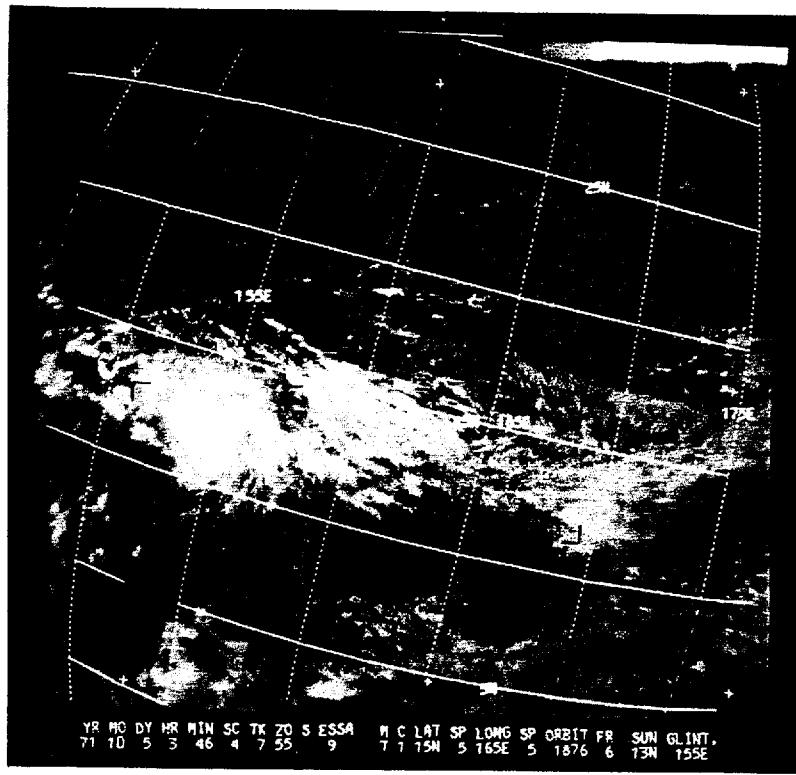


FIGURE 5-51. ESSA-9 PHOTO OF TROPICAL STORM FAYE EAST OF THE MARIANAS ON 5 OCTOBER.

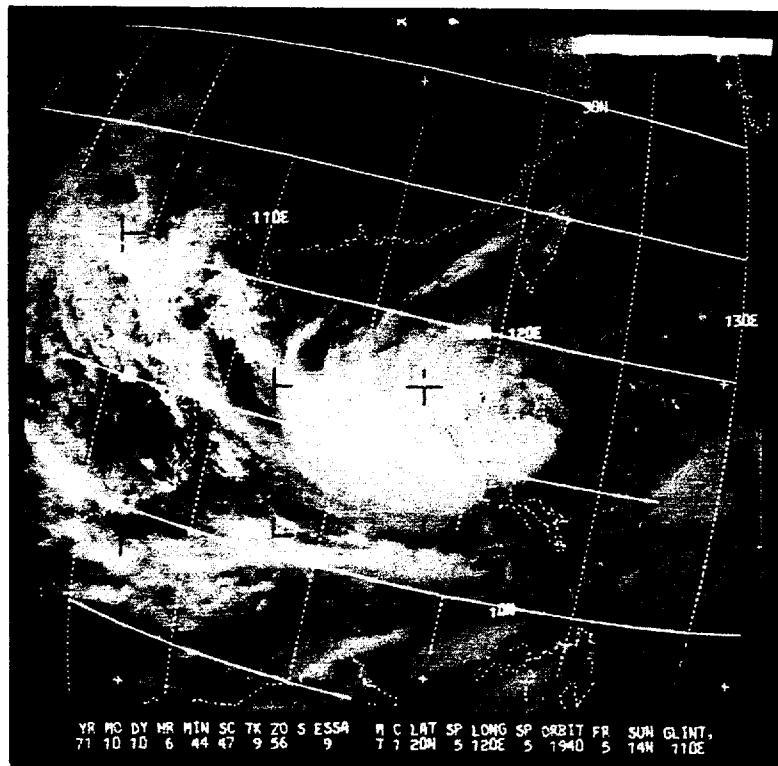


FIGURE 5-52. TYPHOON FAYE WEST OF LUZON ON 10 OCTOBER.

Highest winds reported during Faye's transit were 42 kt at Calapan on northern Mindoro. Now on the eastern side of the southern extension of the trough near the Taiwan Straits, the remains of Faye slowly moved northeastward acquiring extratropical characteristics as she merged with a weak frontal zone south of the Ryukyus.

The effect of Faye on the city of Manila was considerable as heavy rains flooded much of its low-lying areas. The torrential rainfall from Faye in combination with that of tropical storm Gloria, which struck northern Luzon late on the 10th, was responsible for measured 24-hour amounts up to 10.78 inches at Casiguran. Flooding caused evacuation of many towns in Luzon leaving thousands homeless. Streams already swollen by rains from typhoon Elaine overflowed their banks sweeping away bridges and submerging crops and homes. At least 13 deaths with an additional 80 persons counted as missing were reported in the aftermath of Gloria and Faye. Offshore, the heavy seas generated by Faye forced the inter-island vessel MV JOLO aground near Corregidor at the mouth of Manila Bay, while in Palawan Island a pump boat was reported to have sunk with one of its eleven crew men counted as missing.

TYRHOON LYE
EYE FIXES FOR CYCLONE NO. 34
04 OCT - 13 OCT 71

FIX NO.	TIME	PUSIT	UNIT- METHOD -ACCY	FLT LVL	FLT LVL	UDS HNU DIR)	UDS SLP	MIN 700MB HGT	FIT LVL T1/TU	EYE FORM	ORIEN- TATION	EYE DIA	THRN WALL CLD	POST OF RADAR
1	040442Z	12.0N 154.0E	SATEL11---	STG C										
2	041420Z	12.3N 154.0E	V0-P- 5-10	----	----	54	994	----	26/24	ELIP	SE-NW	27X16	3	
3	042315Z	12.0N 155.0E	V0-H-15-10	----	----	64	----	----	----	CIRC		1	8	POOR FIX
4	050346Z	12.5N 155.0E	SATEL11---	STG C										STRONGER
5	050410Z	13.3N 157.0E	S4-P- 5-5	700MB	32	00	984	3024	16/13	CIRC		10	--	POORLY DEFINED
6	050410Z	13.8N 151.0E	S4-P- 5-7	700MB	40	05	994	3060	15/12	CIRC		10	--	POORLY DEFINED
7	051550Z	14.3N 154.0E	V0-P- 5-3	----	----	70	993	----	27/23	CIRC		10	3	SMALL WIND EYE
8	051900Z	14.5N 144.0E	V0-H- 5-2	----	----	----	----	----	----	----	----	----	--	NO WC
9	052145Z	14.7N 144.0E	V0-H- 5-1	----	----	75	994	----	27/24	CIRC		1	--	NO WC
10	060604Z	15.5N 144.0E	SATEL11---	STG C										WEAKER
11	060633Z	15.6N 144.0E	S4-P- 5-5	600MB	40	00	994	25/23	----	----	----	--	--	NO WC
12	060933Z	15.9N 143.0E	V0-P-10-3	----	----	55	990	----	28/24	CIRC		8	--	NO WC
13	061521Z	16.1N 141.0E	V0-P- 5-3	----	----	55	990	----	27/24	CIRC		5	--	
14	062230Z	15.9N 134.0E	S4-P- 5-10	700MB	30	00	1000	3069	14/11	CIRC		30	--	POORLY DEFINED
15	070330Z	16.3N 134.0E	S4-P- 5-5	700MB	20	30	994	3072	14/10	CIRC		30	--	POORLY DEFINED
16	070543Z	16.0N 134.0E	SATEL11---	STG C										
17	071530Z	15.9N 134.0E	V0-H- 5-2	----	----	----	----	----	----	CIRC		2	8	CLSD WC WEAKER
18	080643Z	16.0N 131.0E	SATEL11---	STG B										16.3N 135.0E
19	090544Z	16.5N 127.0E	SATEL11---	STG C										STRONGER
20	100644Z	17.0N 121.0E	SATEL11---	STG C										POORLY DEFINED
21	101600Z	15.0N 114.0E	S4-P- 1-1	500MB	60	----	----	2704	00/01	----	----	--	--	POORLY DEFINED
22	102230Z	15.7N 114.0E	S4-P-10-5	700MB	35	05	984	2920	18/16	CIRC		25	--	700 CNTR 10NM SW
23	110110Z	15.3N 114.0E	S4-P- 5-5	700MB	60	10	----	2924	16/14	ELIP	N-S	40X25	--	NO WC
24	110548Z	15.0N 114.0E	SATEL11---	STG B										LITTLE CHANGE
25	110800Z	15.0N 114.0E	S4-P- 6-0	700MB	30	35	984	2915	16/16	----	----	--	--	NO WC-700 CNTR 10NM S
26	111204Z	14.5N 119.0E	S4-P- 2-13	700MB	55	----	985	2966	15/14	----	----	--	--	NO WC
27	111000Z	14.3N 119.0E	S4-P- 2-8	700MB	60	----	985	2954	16/13	CIRC		20	--	POORLY DEFINED
28	111615Z	14.5N 119.0E	SMP RDH---											PSBL CNTR
29	111600Z	14.4N 119.0E	SMP RDH---											PSBL CNTR
30	111900Z	14.4N 119.0E	SMP RDH---											PSBL CNTR
31	112000Z	14.3N 119.0E	SMP RDH---											PSBL CNTR
32	112100Z	14.2N 119.0E	SMP RDH---											PSBL CNTR
33	112140Z	14.2N 119.0E	S4-P- 2-5	700MB	60	----	985	2963	14/12	CIRC		20	--	POORLY DEFINED
34	112200Z	14.2N 119.0E	SMP RDH---											PSBL CNTR
35	120045Z	14.0N 120.0E	S4-P- 2-5	700MB	38	00	----	2978	15/11	CIRC		15	--	POORLY DEFINED
36	120300Z	13.4N 120.0E	S4-P- 1-4	700MB	55	05	985	2984	15/09	CIRC		20	--	700 CNTR 6NM W CNTR 5NM NW
37	120646Z	14.5N 120.0E	SATEL11---	STG C										LITTLE CHANGE
38	121000Z	14.1N 114.0E	S4-P- 5-12	500MB	60	----	----	2790	04/03	CIRC		20	--	POORLY DEFINED
39	121015Z	14.7N 114.0E	S4-P- 5-20	500MB	40	----	----	2820	03/04	CIRC		20	--	POORLY DEFINED

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TYPHOON FAYE

1800Z 4 OCT TO 0600Z 13 OCT

	BEST TRACK				WARNING				24 HOUR FORECAST				48 HOUR FORECAST				72 HOUR FORECAST					
	POSIT	WIND	POSIT	WIND	ERRORS		POSIT	WIND	ERRORS		POSIT	WIND	ERRORS		POSIT	WIND	ERRORS		POSIT	WIND	ERRORS	
	DST	WIND	DST	WIND	DST	WIND	DST	WIND	DST	WIND	DST	WIND	DST	WIND	DST	WIND	DST	WIND	DST	WIND	DST	WIND
041800Z	12.8N	156.4E	50	12.7N	155.0E	45	82	-5	13.7N	150.3E	65	58	0	14.5N	145.5E	85	296	40	---	---	--	--
050000Z	13.2N	154.3E	55	12.9N	154.0E	60	25	5	13.7N	149.4E	80	126	20	14.5N	145.0E	100	368	60	---	---	--	--
050600Z	13.6N	152.6E	60	13.3N	152.4E	60	21	0	14.3N	147.0F	85	144	30	15.2N	142.2E	105	297	65	---	---	--	--
051200Z	14.0N	151.0E	65	13.7N	150.9E	60	19	-5	14.6N	145.7E	70	195	20	---	---	--	--	--	---	---	--	--
051800Z	14.4N	149.6E	65	14.4N	149.7F	65	6	0	15.9N	144.5F	80	224	35	---	---	--	--	--	---	---	--	--
060000Z	14.9N	147.6E	60	14.9N	147.8E	70	12	10	17.0N	142.0E	90	193	50	---	---	--	--	--	---	---	--	--
060600Z	15.6N	144.9E	55	15.6N	144.3F	50	35	-5	---	---	--	--	--	---	---	--	--	--	---	---	--	--
061200Z	15.9N	142.6E	50	16.1N	142.5E	50	13	0	---	---	--	--	--	---	---	--	--	--	---	---	--	--
061800Z	16.0N	140.6E	45	16.2N	140.7E	50	13	5	---	---	--	--	--	---	---	--	--	--	---	---	--	--
070000Z	16.0N	138.8E	40	16.0N	138.7E	35	6	-5	---	---	--	--	--	---	---	--	--	--	---	---	--	--
070600Z	16.0N	137.1E	40	16.3N	137.4F	30	25	-10	---	---	--	--	--	---	---	--	--	--	---	---	--	--
100000Z	14.9N	121.8E	35	15.3N	121.8F	40	24	5	15.6N	117.3E	70	58	5	16.1N	113.2E	80	410	25	16.8N	109.4E	70	817
100600Z	14.8N	121.0E	40	15.3N	121.2E	35	32	-5	15.6N	117.0E	70	112	5	16.1N	113.3E	80	447	25	---	---	--	--
101200Z	14.9N	120.1E	45	15.4N	119.9E	55	32	10	15.8N	115.8E	80	216	20	16.2N	112.1E	90	562	45	---	---	--	--
101800Z	15.3N	119.1E	55	15.1N	119.2E	60	13	5	15.4N	115.0E	85	275	25	15.8N	111.3E	90	654	55	---	---	--	--
110000Z	15.6N	118.3E	65	15.9N	118.0E	60	18	-5	15.9N	113.9E	85	368	30	16.6N	110.2E	75	771	45	---	---	--	--
110600Z	14.9N	118.8E	65	15.6N	116.9F	65	117	0	16.1N	112.9E	85	469	30	16.8N	109.2E	70	858	40	---	---	--	--
111200Z	14.5N	119.3E	60	15.0N	118.7E	60	46	0	15.2N	117.7E	50	235	5	---	---	--	--	--	---	---	--	--
111800Z	14.2N	119.6E	60	14.3N	119.9F	55	18	-5	16.1N	122.4E	40	84	5	---	---	--	--	--	---	---	--	--
120000Z	14.1N	120.0E	55	14.2N	120.0F	55	6	0	14.6N	120.1E	50	212	20	---	---	--	--	--	---	---	--	--
120600Z	13.9N	120.7E	55	13.9N	120.6E	60	6	5	14.5N	120.6F	45	239	15	---	---	--	--	--	---	---	--	--
121200Z	14.1N	121.6E	45	14.2N	120.7E	45	52	0	---	---	--	--	--	---	---	--	--	--	---	---	--	--
121800Z	14.7N	122.6E	35	14.6N	121.6F	40	58	5	---	---	--	--	--	---	---	--	--	--	---	---	--	--
130000Z	15.7N	123.6E	30	15.5N	123.3E	30	21	0	---	---	--	--	--	---	---	--	--	--	---	---	--	--
130600Z	16.5N	124.2E	30	16.3N	124.1E	30	13	0	---	---	--	--	--	---	---	--	--	--	---	---	--	--

TYPHOONS WHILE WIND OVER 35KTS

AVERAGE FORCAST ERROR	WARNING	24-HR	48-HR	72-HR
	30NM	197NM	434NM	0NM
AVERAGE RIGHT ANGLE ERROR	18NM	106NM	216NM	0NM
AVERAGE MAGNITUDE OF WIND ERROR	4KTS	20KTS	45KTS	0KTS
AVERAGE BIAS OF WIND FORFOR	0KTS	20KTS	45KTS	0KTS
NUMBER OF FORECASTS	23	14	7	0

ALL FORECASTS

WARNING	24-HR	48-HR	72-HR	
	29NM	201NM	518NM	817NM
AVERAGE RIGHT ANGLE ERROR	17NM	97NM	290NM	515NM
AVERAGE MAGNITUDE OF WIND ERROR	4KTS	20KTS	44KTS	40KTS
AVERAGE BIAS OF WIND FORFOR	0KTS	20KTS	44KTS	40KTS
NUMBER OF FORECASTS	25	16	9	1

