

O.. TYPHOON FAYE (221200Z AUGUST-010600Z SEPTEMBER 1960)

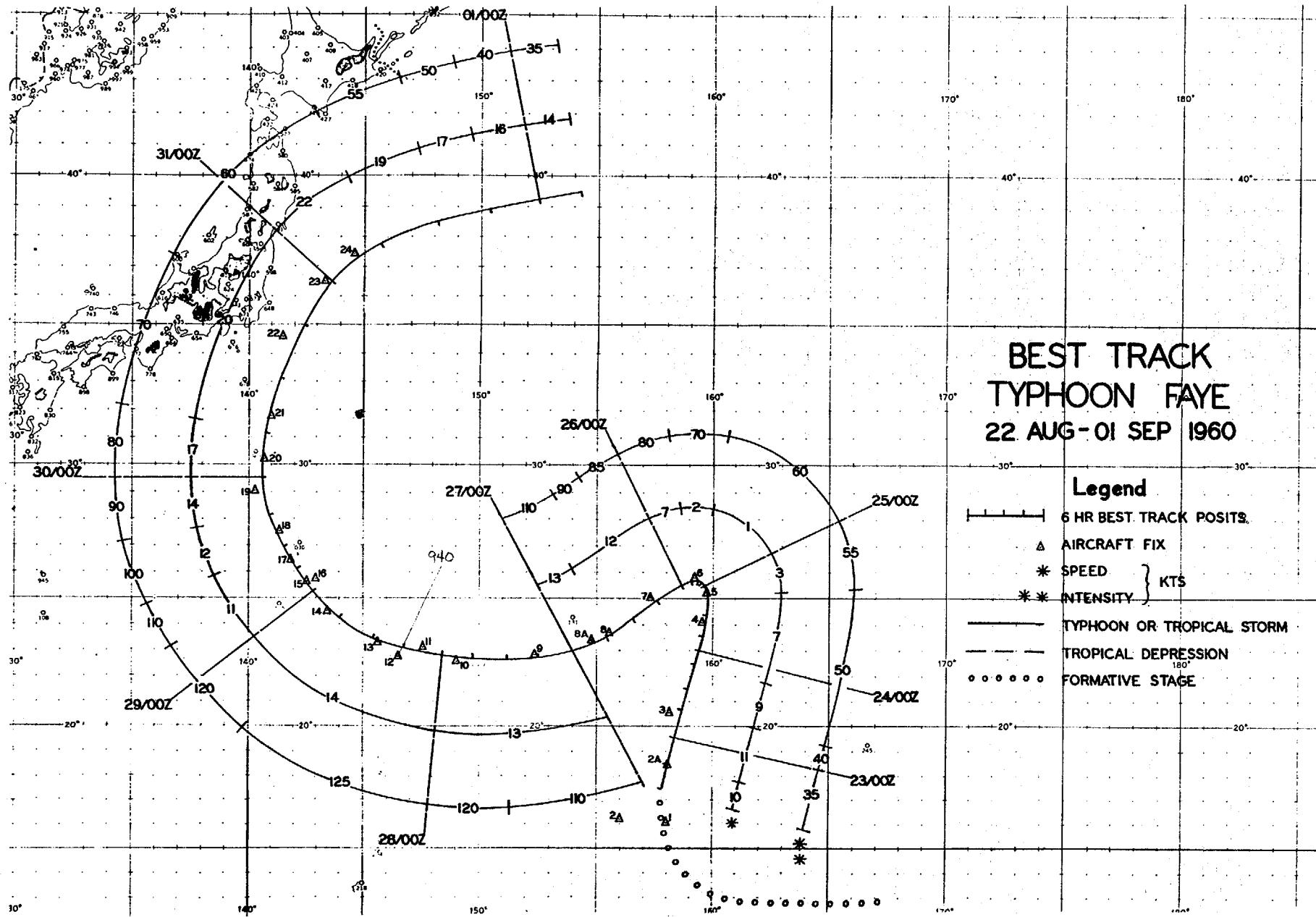
At 220300Z an aircraft, enroute from Guam to Wake, found what was estimated to be a tropical cyclone of storm intensity at 16.ON 158.OE. This information was not received by JTWC until some 4 or 5 hours later. Other than a weak circulation analyzed on the surface charts, this was our first indication of FAYE. As a result of the report, the initial warning, as a tropical storm, was issued on FAYE at 221200Z.

The storm moved N at 9 kts for the first 54 hours, steered by the elongated western portion of a high at 300 mb. During this period, warnings were being issued on four additional tropical disturbances (BESS, CARMEN, DELLA and ELAINE), greatly limiting the availability of reconnaissance aircraft to investigate FAYE. When FAYE reached 25N 160E, it became quasi-stationary and intensified to typhoon strength. It then began to move with the 200 mb flow, causing it to discontinue its movement to the N and to begin moving SW. The first typhoon warning was issued at 251800Z, although post-analysis indicates FAYE was of typhoon intensity at 251200Z. FAYE passed about 75 mi S of Marcus Island at 270000Z as it began to move W. However, the maximum sustained surface winds at Marcus were only 45 kts. At 280600Z a ship 150 mi SW of FAYE reported only 20 kt surface winds, while the reconnaissance fix reported maximum surface winds of 135 kts. This confirmed the fact that FAYE was a small but intense typhoon. An E-W elongated high at 200 mb, centered to the N of the typhoon, caused it to move W and then NW, and FAYE passed midway between Iwo Jima and Peel Island at approximately 290600Z. The maximum winds reported at Iwo Jima were 30 kts with gusts to 40 kts, and at Peel Island, 42 kts with gusts to 62 kts. It was here that FAYE commenced recurving N.

As FAYE recurved around the western edge of the anti-cyclone at 200 mb, it passed 35 mi to the WSW of Peel Island at 291100Z and 20 mi E of Tori Shima at 300330Z. The maximum surface winds at Tori Shima were 45 kts with a minimum sea level pressure of 991 mb. By 300000Z FAYE had begun to weaken, and 300 mbs appeared to become the dominant steering level, causing the storm to move NNE instead of N, thus eliminating any threat to Japan. FAYE was downgraded to a tropical storm at 310000Z, although post-analysis indicates FAYE weakened to tropical storm intensity at 301800Z. By 010000Z it was evident that the storm had weakened and filled, and the final tropical warning was issued at 010600Z, by which time FAYE had become extratropical.

A total of 40 warnings were issued, covering a period of 9 days and 18 hours. FAYE traveled 2800 mi and moved at an average speed of 12 kts or 286 mi per day during its "life". The range of its speed was from 1 to 22 kts.

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BEST TRACK
TYPHOON FAYE
22 AUG - 01 SEP 1960

Legend

6 HR BEST TRACK POSITS

AIRCRAFT FIX

SPEED

RIS

TYPHOON OR TROPICAL STORM

TROPICAL DEPRESSION

FORMATIVE STAGE

RECONNAISSANCE AIRCRAFT FIXES - TYPHOON FAYE

FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MIN SLP MBS	MAX SFC WND	MIN 700MB HGT	MAX 700MB WND	700MB TT/Td (°C)	EYE CHARACTERISTICS
1	220300Z	16.0N	158.0E	USN-R---	- -	- -	- -	- -	- -	- -
2	221500Z	16.1N	156.0E	USN-----	- -	- -	- -	- -	- -	- -
2A	230115Z	18.5N	158.0E	USAF-----	- -	- -	- -	- -	- -	- -
3	230612Z	21.5N	158.1E	VW1-P---	- -	50	- -	- -	- -	CIRC DIA 25 MI
4	241010Z	24.1N	159.4E	56---05	- -	- -	- -	- -	- -	- -
5	242000Z	25.3N	159.8E	56-P-10	994	45	9950	60	11/09	CIRC DIA 08 MI
6	252000Z	25.7N	159.2E	56-P-05	975	115	9720	60	14/10	CIRC DIA 20 MI
7	260640Z	25.0N	157.2E	56-P-05	968	65	9470	70	16/11	CIRC DIA 20 MI WALL CLDS SOLID
8	261820Z	23.8N	155.5E	PAN AM	- -	- -	- -	- -	- -	- -
8A	262015Z	23.3N	154.9E	56-P-01	960	120	9080	80	15/12	CIRC DIA 08 MI
9	270645Z	22.9N	152.3E	56-P-10	953	110	- -	70	16/12	CIRC DIA 05 MI
10	272100Z	22.6N	149.0E	56-P-05	950	125	9020	90	15/10	CIRC DIA 12 MI WELL DEFINED WALL CLDS
11	280230Z	23.1N	147.6E	56-P-05	941	135	8760	100	16/11	CIRC DIA 17 MI
12	280730Z	22.8N	146.4E	56-P-05	940	- -	8570	85	17/12	CIRC DIA 30 MI
13	280945Z	23.3N	145.7E	VW1-R-10	- -	- -	- -	- -	- -	CIRC DIA 26 MI
14	282125Z	24.5N	143.4E	56-P-05	952	120	8920	80	14/11	CIRC DIA 12 MI
15	290230Z	25.6N	142.5E	56-P-02	948	120	8930	70	14/12	CIRC DIA 20 MI
16	290235Z	25.8N	143.0E	315-R-05	- -	- -	- -	- -	- -	CIRC DIA 25 MI
17	290800Z	26.4N	141.9E	56-P-01	962	120	8920	90	12/12	CIRC DIA 20 MI

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RECONNAISSANCE AIRCRAFT FIXES - TYPHOON FAYE (CONT'D)

FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MIN	MAX	MIN	MAX	700MB	TT/Td (°C)	EYE CHARACTERISTICS
					SLP MBS	SFC WND	700MB HGT	700MB WND			
18	291500Z	27.5N	141.3E	VW1-R-10	--	--	--	--	--	-	CIRC DIA 26 MI
19	292205Z	29.0N	140.1E	56-P-08	968	100	9180	60	14/08	-	ELLIP NW 30X25 MI
20	300215Z	30.2N	140.8E	56-P-02	958	80	9240	60	18/11	-	ELLIP NW 35X25 MI
21	300825Z	31.8N	141.0E	56-P-05	979	--	9590	75	17/12	-	HORSESHOE 20X70 MI OPEN N
22	301620Z	34.7N	141.5E	VW1-R-20	--	--	--	--	--	-	CIRC DIA 25 MI
23	302330Z	36.5N	143.2E	56-P-05	1005	65	10030	40	12/12	-	50 MI DIA OPEN NW
24	310300Z	37.4N	144.6E	56-P-05	993	--	9790	32	17/17	-	50 MI DIA OPEN NW

TYPHOON FAYE 22 AUGUST-01 SEPTEMBER 1960
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION		24 HR. ERROR	48 HR. ERROR
	LAT.	LONG.	DEG. DISTANCE	DEG. DISTANCE
221200Z	17.5N	157.9E	-----	-----
221800Z	18.5N	158.0E	-----	-----
230000Z	19.5N	158.3E	-----	-----
230600Z	20.6N	158.7E	-----	-----
231200Z	21.4N	159.0E	237-450	-----
231800Z	22.3N	159.2E	242-550	-----
240000Z	23.0N	159.5E	239-588	-----
240600Z	23.6N	159.7E	247-401	-----
241200Z	24.4N	159.8E	120-137	244-736
241800Z	25.1N	159.8E	200-225	247-800
250000Z	25.4N	159.7E	155-111	245-795
250600Z	25.5N	159.6E	140-94	257-603
251200Z	25.6N	159.5E	009-130	110-313
251800Z	25.7N	159.4E	013-170	192-250
260000Z	25.6N	158.6E	030-229	095-165
260600Z	25.1N	157.4E	036-336	079-252
261200Z	24.3N	156.4E	037-457	030-440
261800Z	23.5N	155.3E	051-286	031-547
270000Z	23.0N	154.0E	053-366	041-687
270600Z	22.9N	152.5E	065-407	044-798
271200Z	22.8N	151.1E	070-485	048-913
271800Z	22.8N	149.8E	099-255	063-594
280000Z	22.9N	148.3E	153-138	065-665
280600Z	23.0N	146.8E	302-57	068-737
281200Z	23.5N	145.3E	080-52	081-775
281800Z	24.2N	144.0E	124-153	110-449
290000Z	25.2N	142.8E	180-185	146-260
290600Z	26.1N	142.1E	210-153	143-70
291200Z	27.0N	141.5E	216-175	143-175
291800Z	28.1N	140.9E	219-212	163-340
300000Z	29.5N	140.5E	229-133	196-467
300600Z	31.2N	140.8E	268-110	230-292
301200Z	33.1N	141.4E	228-160	223-458
301800Z	35.0N	142.3E	218-191	224-541

TYPHOON FAYE 22 AUGUST-01 SEPTEMBER 1960
POSITION AND FORECAST VERIFICATION DATA (CONT'D)

DTG	STORM POSITION		24 HR. ERROR	48 HR. ERROR
	LAT.	LONG.	DEG. DISTANCE	DEG. DISTANCE
310000Z	36.6N	143.5E	-----	-----
310600Z	37.9N	145.8E	-----	-----
311200Z	38.5N	148.1E	-----	-----
311800Z	38.8N	150.3E	-----	-----
010000Z	39.2N	152.3E	-----	-----
010600Z	39.5N	154.1E	-----	-----

AVERAGE 24 HOUR ERROR 246 MI

AVERAGE 48 HOUR ERROR 505 MI

