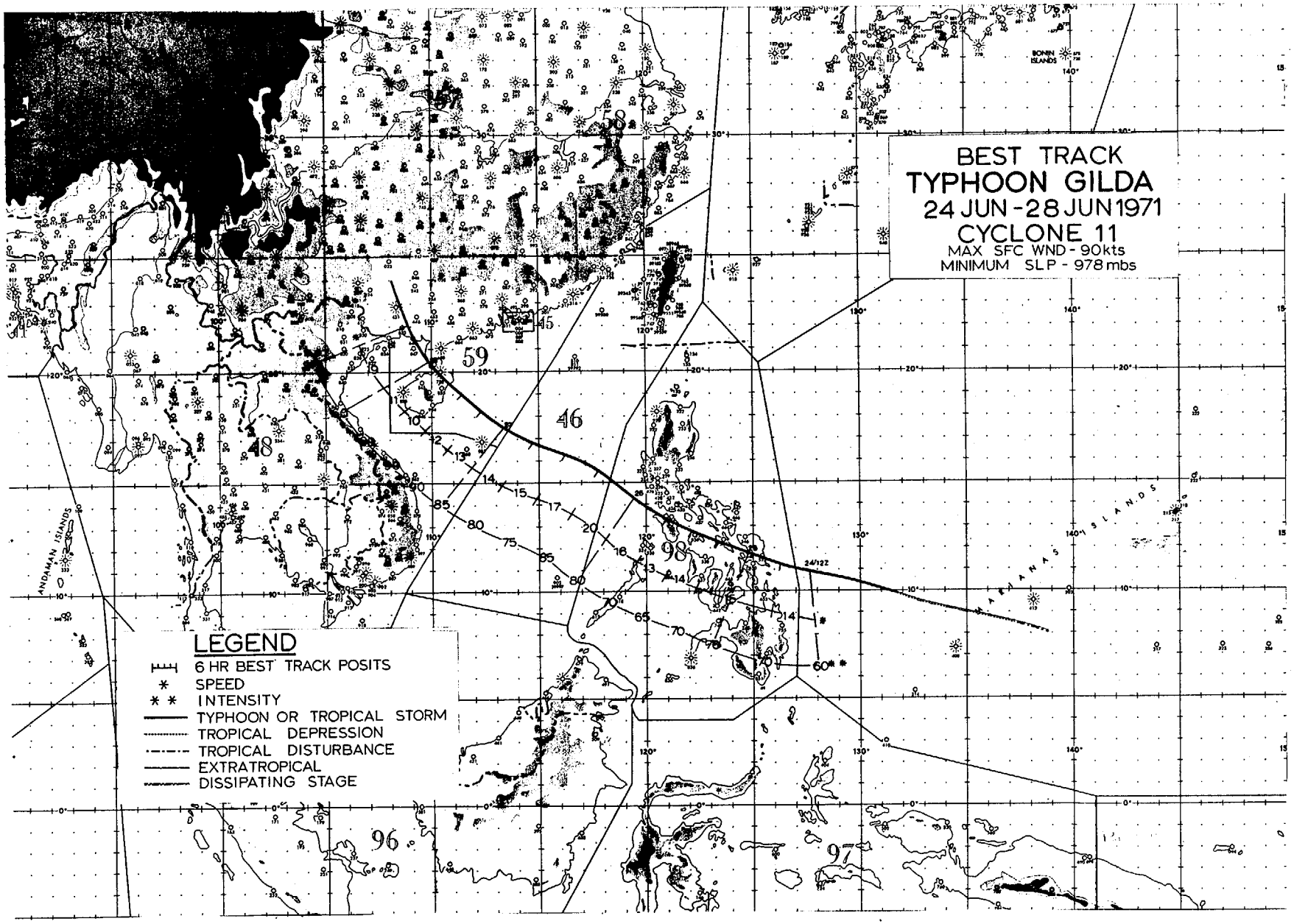
BEST TRACK
TYPHOON GILDA
24 JUN - 28 JUN 1971
CYCLONE 11
MAX SFC WND - 90kts
MINIMUM SLP - 978 mbs
LEGEND
6 HR BEST TRACK POSITS
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
TROPICAL DISTURBANCE
EXTRATROPICAL
DISSIPATING STAGE
ANDAMAN ISLANDS
BONIN ISLANDS
MARIANAS ISLANDS
24/12Z

GILDA

Gilda developed to tropical storm force 300 miles east of Leyte on June 24th. Her origin dates back to a circulation noted on the synoptic charts on the 18th south of Yap. During the next four days the system took a west-northwest intercept course with the central Philippines (Figure 5-15).

Reaching typhoon force just before striking Samar the morning of the 25th, she crossed Masbate Island, the Sibuyon Sea, Mindoro and crossed back to sea near Lubang Island. Maximum wind gusts of 90 kt were reported at Romblon in the Sibuyon Sea, while a maximum rainfall amount of 7.44 inches fell at Borongon. One person was reported killed and over 790 homes were destroyed.

Gilda did not drop below typhoon force during her transit through the Philippines, and emerged into the South China Sea with winds of 85 kt on the 26th. Shifting to a more northwesterly track at 15 kt, the typhoon struck northeastern Hainan Island (Figure 5-16) 36 hours later with winds of 90 kt. Gilda moved ashore on mainland China, west of the Luichow peninsula, as a tropical storm on the 28th finally dissipating in the interior.

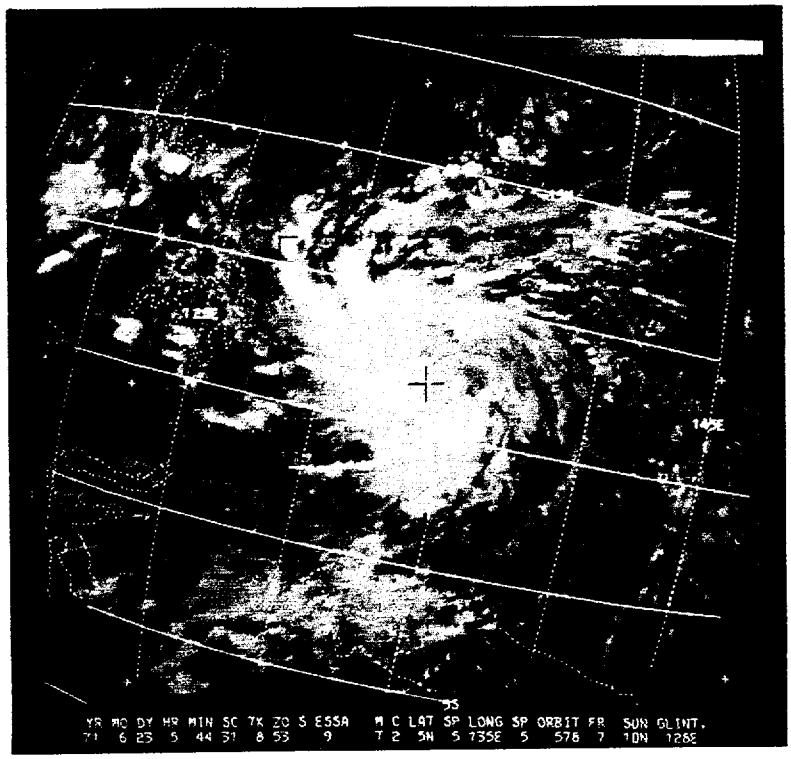

FIGURE 5-15. THE FORMATIVE STAGES OF TROPICAL STORM GILDA IN THE SOUTHERN PHILIPPINE SEAS AS SIGHTED BY ESSA-9 ON 23 JUNE.

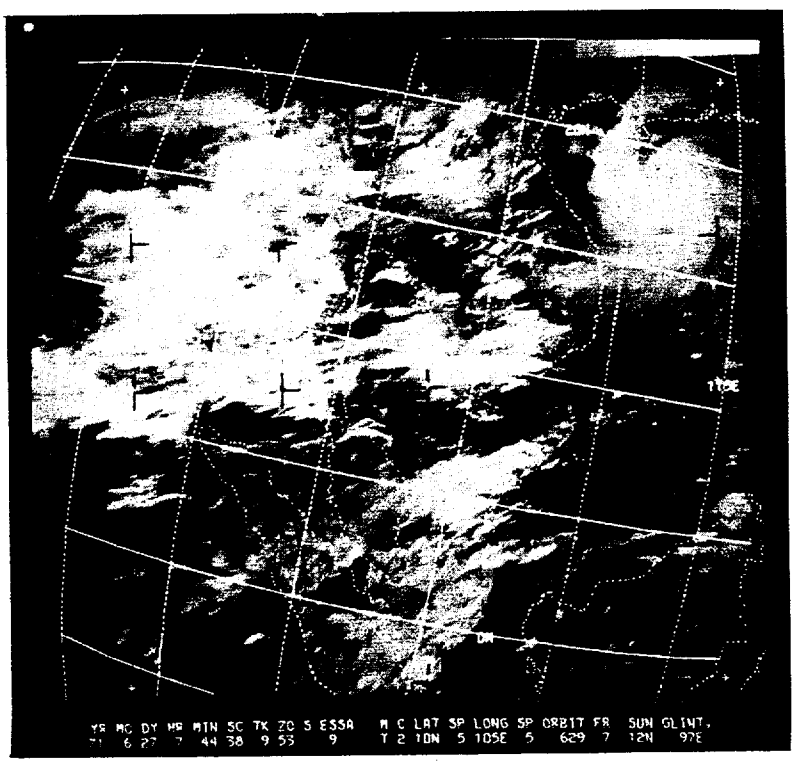

FIGURE 5-16. ESSA-9 PHOTO OF TYPHOON GILDA EAST OF HAINAN ISLAND ON 27 JUNE.

TYPHOON GILDA
EYE FIXES FOR CYCLONE NO. 11
24 JUN - 28 JUN 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	220634Z	8.0N 138.0E	SATELIT----	STG B											
2	230230Z	9.1N 134.4E	VQ-P-15----	500M	----	15	1005	----	26/23	CIRC		30	--	NO WC	
3	230545Z	8.5N 134.5E	SATELIT----	STG C										BETTER ORGANIZED	
4	240030Z	9.3N 130.7E	54-P-15----	700MB	30	25	1001	3057	08/07	----	-----	--	--	NEG RDR PRES	
5	240200Z	10.1N 130.6E	54-P------	-----	----	----	----	----	--/--	----	-----	--	--		
6	240644Z	11.5N 128.5E	SATELIT----	STG C										STRONGER	
7	241245Z	11.0N 127.4E	54-P- 5----	500M	55	----	985	2978	14/--	ELIP	E-W	18X10	5	FBS FORMING	
8	241600Z	11.2N 127.1E	54-P- 8----	700MB	68	----	986	2966	15/11	ELIP	N-S	15X12	5	WC RAGGED	
9	242215Z	11.4N 125.2E	54-P- 2----	700MB	80	----	----	----	16/10	CIRC		--	10	STG FBS E-SW	
10	250100Z	11.8N 124.5E	54-P- 1----	700MB	78	50	----	----	14/11	CIRC		--	10	WC POORLY DEF	
11	250415Z	12.1N 124.0E	54-P- 1----	700MB	70	70	----	----	09/08	----	-----	--	--	NEG WC	
12	250547Z	12.5N 123.5E	SATELIT----	STG X	DIA	3	CAT 2.0							STRONGER	
13	250720Z	12.3N 122.8E	VQ-P-15----	700MB	30	----	991	3084	14/10	----	-----	--	--	NEG RDR PRES	
14	251400Z	13.0N 121.8E	LND RDR----							----	-----	--	--	UNK SITE	
15	251622Z	13.2N 121.3E	54-P- 5----	500MB	50	----	----	----	00/-4	CIRC		20	--	WC OPEN NW	
16	251923Z	13.9N 120.4E	54-P- 3-12	500MB	50	----	----	----	00/-3	CIRC		18	10	CLSD WC	
17	252115Z	13.8N 120.2E	54-P- 2----	500MB	75	----	----	----	-1/-6	CIRC		10	10	CLSD WC-FBS E	
18	252250Z	14.0N 119.7E	SHP RDR----							----	-----	--	--	AN/SPS-30 RDR	
19	260000Z	14.4N 119.4E	SHP RDR----							----	-----	--	--	AN/SPS-30 RDR	
20	260100Z	14.6N 118.9E	SHP RDR----							----	-----	--	--	AN/SPS-30 RDR	
21	260110Z	14.5N 119.2E	54-P- 3----	700MB	90	----	----	----	19/12	CIRC		10	--	CLSD WC-STG FBS	
22	260400Z	15.1N 118.4E	54-P- 3- 2	700MB	90	100	----	2900	18/10	CIRC		15	--	WC OPEN NW	
23	260650Z	15.3N 118.0E	SATELIT----	STG X	DIA	2	CAT 2.5							LITTLE CHG	
24	261014Z	16.1N 116.4E	VQ-R- 5- 1	700MB	----	70	984	2987	17/12	CIRC		12	2	WC OPEN N	
25	261248Z	16.4N 116.1E	VQ-R- 5- 3	700MB	----	----	987	2996	15/11	CIRC		18	6	WC OPEN S QUAD	
26	262300Z	17.3N 113.5E	VQ-R- 3- 1	700MB	70	75	----	2874	19/11	CIRC		15	5	WC OPEN W	
27	270100Z	17.6N 113.1E	VQ-R- 3- 1	700MB	80	85	975	2868	19/11	CIRC		20	5	RDR PRES	
28	270400Z	17.9N 112.7E	VQ-R- 3- 1	700MB	90	90	----	2859	18/15	CIRC		20	--	WC OPEN S-NW	
29	270655Z	18.4N 112.1E	VQ-R- 5- 5	300M	----	65	----	----	--/16	----	-----	--	--	WC OPEN N	
30	270745Z	18.5N 112.0E	SATELIT----	STG X	DIA	3	CAT 3.0							RAGGED EYE	
31	271000Z	18.9N 111.4E	VQ-R- 3- 5	330M	----	65	----	----	--/--	CIRC		12	--	ONLY FRAGMENTS OF WC-HVY FBS E-S	19.1N 113.0E
32	271130Z	19.2N 111.1E	VQ-R-10- 5	300M	----	60	----	----	--/--	----	-----	--	--	NEG WC	
33	272100Z	20.0N 110.4E	----------	-----	----	----	974	----	--/--	----	-----	--	--	PSG OVR LND STN	

TYPHOON GILDA

1200Z 24 JUN TO 0600Z 28 JUN

	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
241200Z	10.9N 127.7E	60	10.9N 127.6E	55	6	-5	13.5N 122.3E	60	43	-5	16.4N 118.3E	70	121	-5	19.4N 115.6E	75	244	-15
241800Z	11.3N 126.2E	70	11.3N 126.7E	65	29	-5	13.4N 122.5E	60	99	-10	15.9N 118.9E	65	247	-15	--.- ---.-	--	--	--
250000Z	11.8N 124.8E	70	11.7N 124.8E	65	6	-5	14.3N 119.5E	65	6	-15	17.8N 115.9E	75	150	-10	21.3N 113.8E	75	228	15
250600Z	12.2N 123.3E	70	12.2N 123.6E	65	18	-5	15.1N 118.5E	70	47	-15	18.8N 115.2E	80	174	-10	--.- ---.-	--	--	--
251200Z	12.8N 122.1E	65	12.8N 121.9E	60	12	-5	16.4N 117.2E	75	58	0	20.3N 114.3E	80	186	-10	--.- ---.-	--	--	--
251800Z	13.4N 120.8E	70	13.3N 120.9E	60	8	-10	16.8N 116.8E	75	120	-5	20.5N 114.2E	80	208	0	--.- ---.-	--	--	--
260000Z	14.3N 119.4E	80	14.4N 119.8E	65	24	-15	17.9N 115.8E	75	145	-10	21.8N 113.7E	70	231	10	--.- ---.-	--	--	--
260600Z	15.5N 117.8E	85	15.5N 118.0E	85	12	0	19.5N 114.5E	90	151	0	23.1N 113.7E	65	277	20	--.- ---.-	--	--	--
261200Z	16.3N 116.2E	75	16.5N 116.1E	80	13	5	20.7N 113.4E	80	156	-10	--.- --.-	--	--	--	--.- ---.-	--	--	--
261800Z	16.8N 114.7E	80	17.2N 115.1E	80	33	0	21.1N 112.4E	80	131	0	--.- --.-	--	--	--	--.- ---.-	--	--	--
270000Z	17.4N 113.3E	85	17.4N 113.3E	80	0	-5	20.5N 109.1E	60	39	0	--.- --.-	--	--	--	--.- ---.-	--	--	--
270600Z	18.2N 112.2E	90	18.1N 112.3E	90	8	0	22.0N 109.4E	40	34	-5	--.- --.-	--	--	--	--.- ---.-	--	--	--
271200Z	19.0N 111.3E	90	19.3N 111.1E	85	21	-5	--.- --.-	--	--	--	--.- --.-	--	--	--	--.- ---.-	--	--	--
271800Z	19.7N 110.6E	80	20.2N 110.2E	60	37	-20	--.- --.-	--	--	--	--.- --.-	--	--	--	--.- ---.-	--	--	--
280000Z	20.5N 109.8E	60	20.4N 110.2E	60	23	0	--.- --.-	--	--	--	--.- --.-	--	--	--	--.- ---.-	--	--	--
280600Z	22.1N 108.8E	45	22.0N 108.9E	50	8	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	16NM	86NM	199NM	236NM	16NM	86NM	199NM	236NM
AVERAGE RIGHT ANGLE ERROR	10NM	62NM	143NM	180NM	10NM	62NM	143NM	180NM
AVERAGE MAGNITUDE OF WIND ERROR	6KTS	6KTS	10KTS	15KTS	6KTS	6KTS	10KTS	15KTS
AVERAGE BIAS OF WIND ERROR	-4KTS	-6KTS	-3KTS	0KTS	-4KTS	-6KTS	-3KTS	0KTS
NUMBER OF FORECASTS	16	12	8	2	16	12	8	2