Typhoon (TY) 14W (Dujuan)*

First Poor : 0600Z 27 Aug 03

First Fair : 2300Z 27 Aug 03

First TCFA : 0000Z 28 Aug 03

First Warning : 0600Z 28 Aug 03

Last Warning : 0000Z 03 Sep 03, Dissipated

Max Intensity : 125 kts, gusts to 145 kts

Landfall : China, East of Hong Kong

Total Warnings : 24

Remarks:

(1) Typhoon (TY) 14W developed in the Philippine Sea, approximately 280 nm northwest of Guam, on 27 August 2003. TY 14W tracked southwestward for about 30 hours, under the influence of low to mid-level steering flow associated with a ridge to the north. From 0600Z on 29 August to 0600Z on 30 August, TY 14W underwent rapid intensification (2 Dvorak T-numbers) due to an upper level low northwest of the system which enhanced poleward outflow.

After 0000Z on 30 August, a mid-level ridge building eastward from Asian produced a northwestward track change, followed by a westward track change toward Hong Kong. Track speed also increased to 12 to 15 knots and intensification during this period was near the climatological mean of 1 Dvorak T-number/day.

By 2200Z on 31 August, microwave imagery indicated the presence of a concentric eyewalls and the cyclone attained maximum intensity of 125 knots shortly thereafter. TY 14W then slowly weakened as it tracked toward China and made landfall at typhoon strength around 1500Z on 02 September, just east of Hong Kong. The cyclone then rapidly decreased in intensity over China and the final warning was issued at 0000Z on 03 September.

(2) TY 14W passed 25 nm south of Taiwan, with an intensity of 120 knots on 01 September. Reports from Taiwan indicated rain and wind damage, flooding, and one missing person. Hong Kong shut the airport down during storm passage. Subsequent reports indicate 36 fatalities and 10 missing from areas near Hong Kong.

*Named by WMO designated RSMC

Statistics for JTWC on TY 14W

	WRN	BEST TRACK			POSITION ERRORS								WIND ERRORS							
DTG	NO.	LAT	LONG	wind	00	12	24	36	48	72	96	120	00	12	24	36	48	72	96	120
03082712		19.6N	139.0E	25																
03082718		19.0N	138.4E	25																
03082800		18.4N	138.1E	25																
03082806	1	17.6N	137.5E	30	0	32	42	69	110	135			0	5	15	0	-10	-20		
03082812	2	16.8N	136.7E	35	5	19	50	79	146	181	156	347	0	10	10	-5	0	-15	-40	-10
03082818	3	16.5N	136.0E	35	12	30	71	108	160	144	197	408	0	10	-5	-10	-10	-25	-40	20
03082900	4	16.3N	135.5E	35	16	37	82	104	127	134	254	462	0	0	-15	-15	-15	-50	-45	40
03082906	5	16.1N	135.1E	35	13	47	52	62	54	102	206	318	0	-15	-25	-20	-25	-45	-25	55
03082912	6	16.0N	134.8E	45	42	94	126	125	103	140	254		0	-5	0	10	0	-20	5	
03082918	7	16.0N	134.6E	60	46	64	83	97	93	173	289		0	10	20	15	10	-5	45	
03083000	8	16.1N	134.3E	70	0	48	91	140	148	272	385		0	20	25	15	-10	-5	70	
03083006	9	16.7N	133.7E	75	5	32	62	92	135	245	329		0	10	25	10	-10	-10	60	
03083012	10	17.6N	133.1E	75	8	34	80	93	160	226			0	10	5	-15	-20	-15		
03083018	11	18.4N	132.2E	80	0	23	46	67	86	156			0	-5	-5	-20	-20	5		
03083100	12	19.2N	131.1E	80	0	33	51	74	90	208			0	-10	-25	-25	-30	25		
03083106	13	19.8N	129.6E	90	0	30	45	73	88	188			0	-5	-15	-20	-35	25		
03083112	14	20.2N	128.1E	95	0	33	30	33	50				-5	-20	-20	-35	-25			
03083118	15	20.4N	126.7E	100	0	6	29	39	94				0	-15	-15	-20	10			
03090100	16	20.6N	125.4E	120	6	34	57	73	155				0	-5	-10	-5	35			
03090106	17	20.9N	123.6E	120	12	41	49	96	98				0	5	0	20	35			
03090112	18	21.2N	121.8E	125	0	21	29	78					0	-10	-10	25				
03090118	19	21.6N	120.0E	120	0	8	46	96					0	10	15	5				
03090200	20	22.0N	118.2E	120	0	17	89						0	5	5					
03090206	21	22.2N	116.6E	105	5	56	90						0	20	15					
03090212	22	22.5N	114.7E	100	6	65							0	25						

03090218	23	22.6N	112.6E	65	0	16							0	5						
03090300	24	22.6N	110.5E	40	0								0							
03090306		23.0N	109.2E	30																
			AVERAGE		8	36	62	84	112	177	259	384	0	10	13	15	18	20	41	31
			BIAS										0	2	0	-5	-7	-12	4	26
			# CASES		24	23	21	19	17	13	8	4	24	23	21	19	17	13	8	4

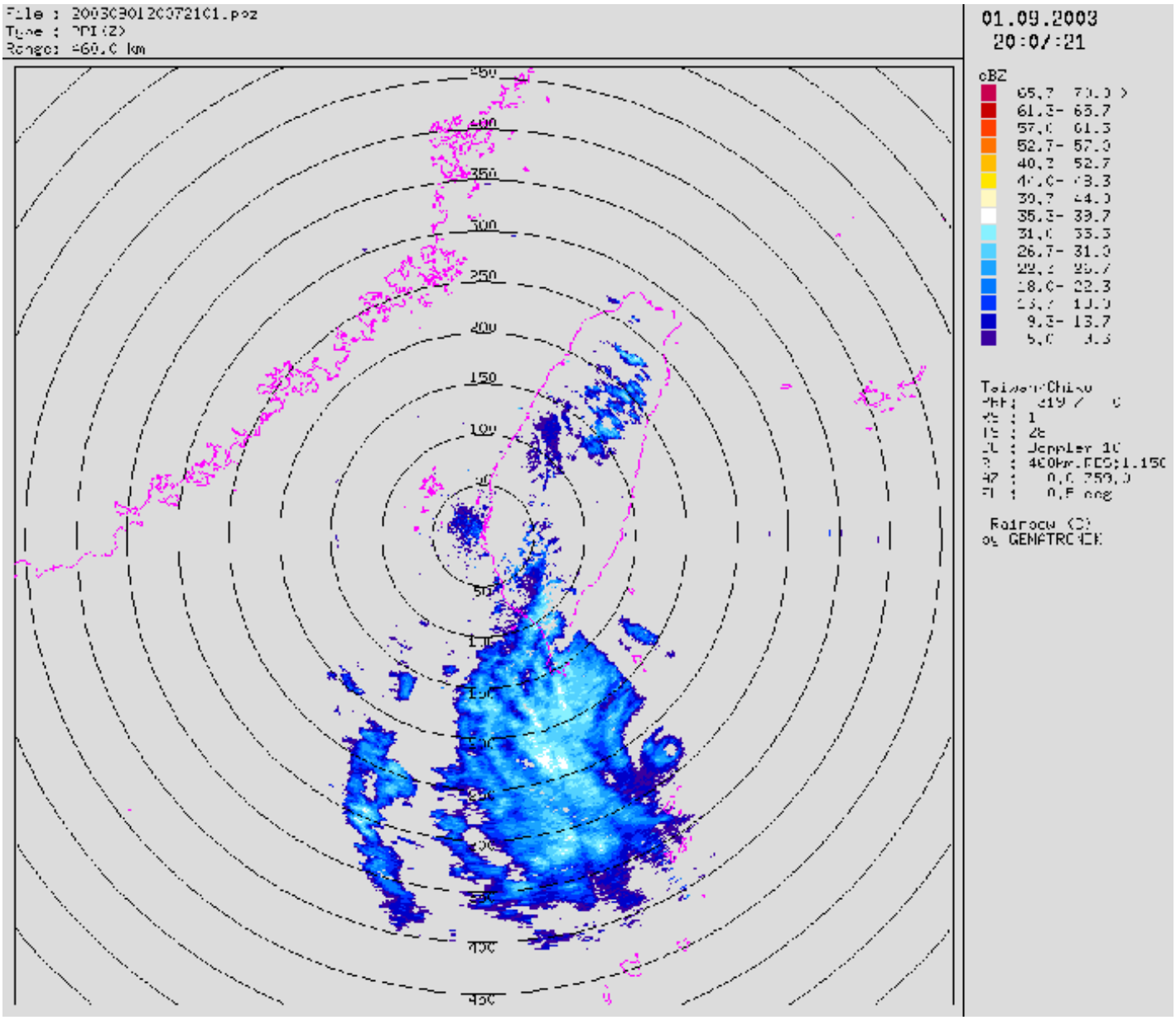

Figure 1-14W-1. 0122007Z September 2003 Taiwan Radar image showing the eye feature as the system passed south of Taiwan with an intensity of 120 knots.

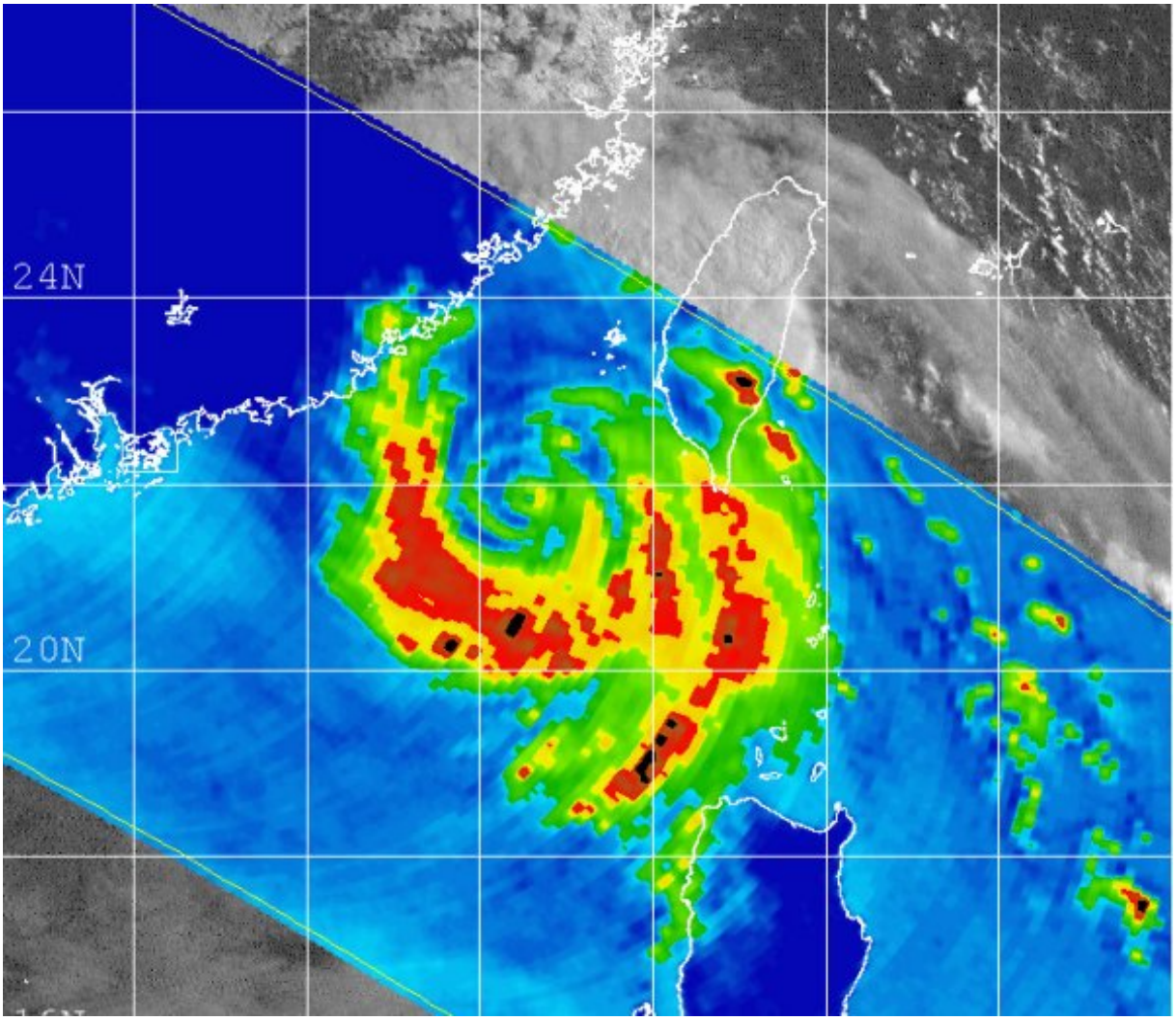

Figure 1-14W-2. 012232Z September 2003 GOES-9 85 GHz TRMM satellite imagery of TY 14W (Dujuan), located 110 nm southwest of Taiwan at an intensity of 120 knots.

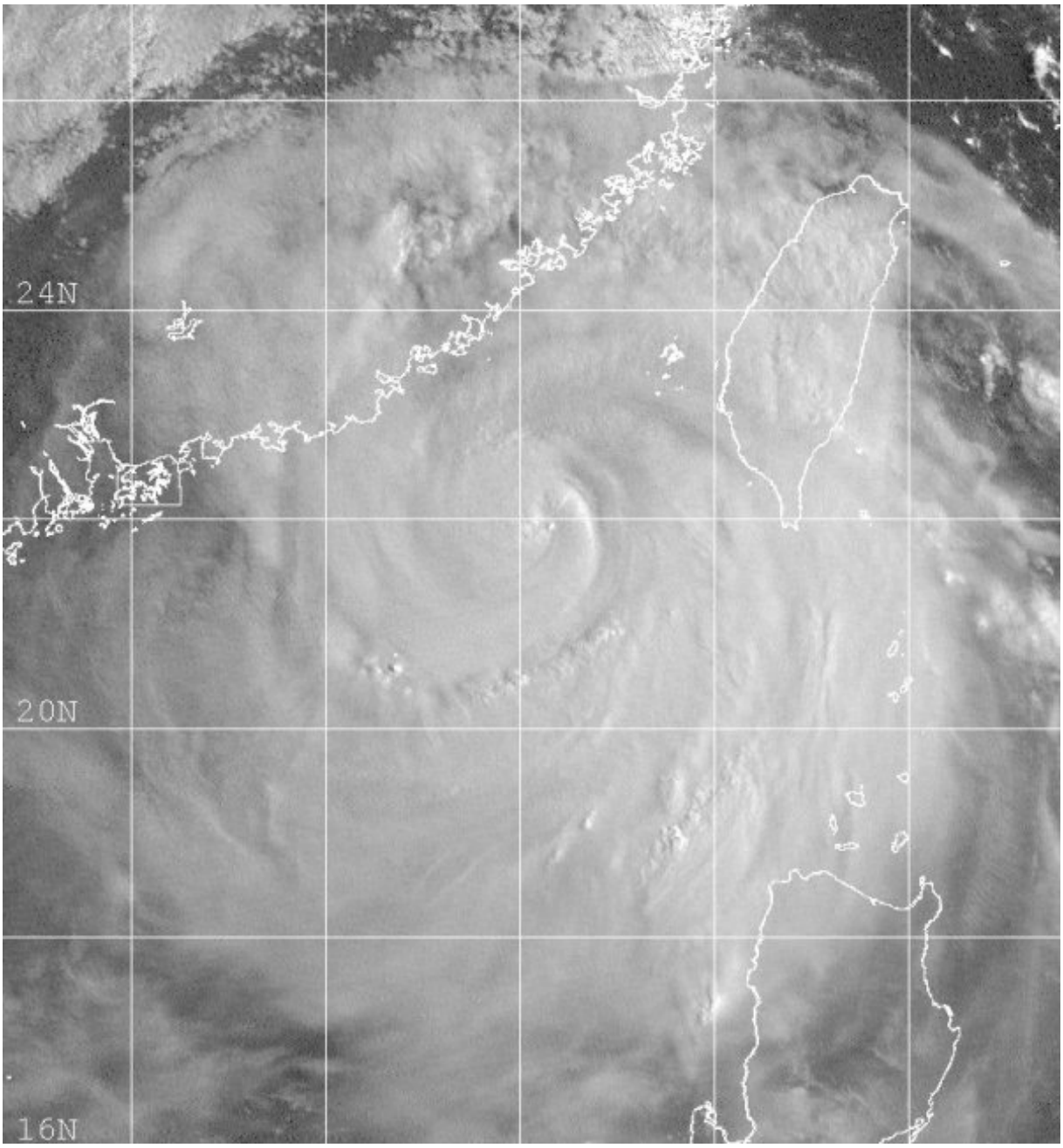

Figure 1-14W-3. 012325Z September 2003 GOES-9 visible imagery of TY 14W (Dujuan), located 110 nm southwest of Taiwan at an intensity of 120 knots.

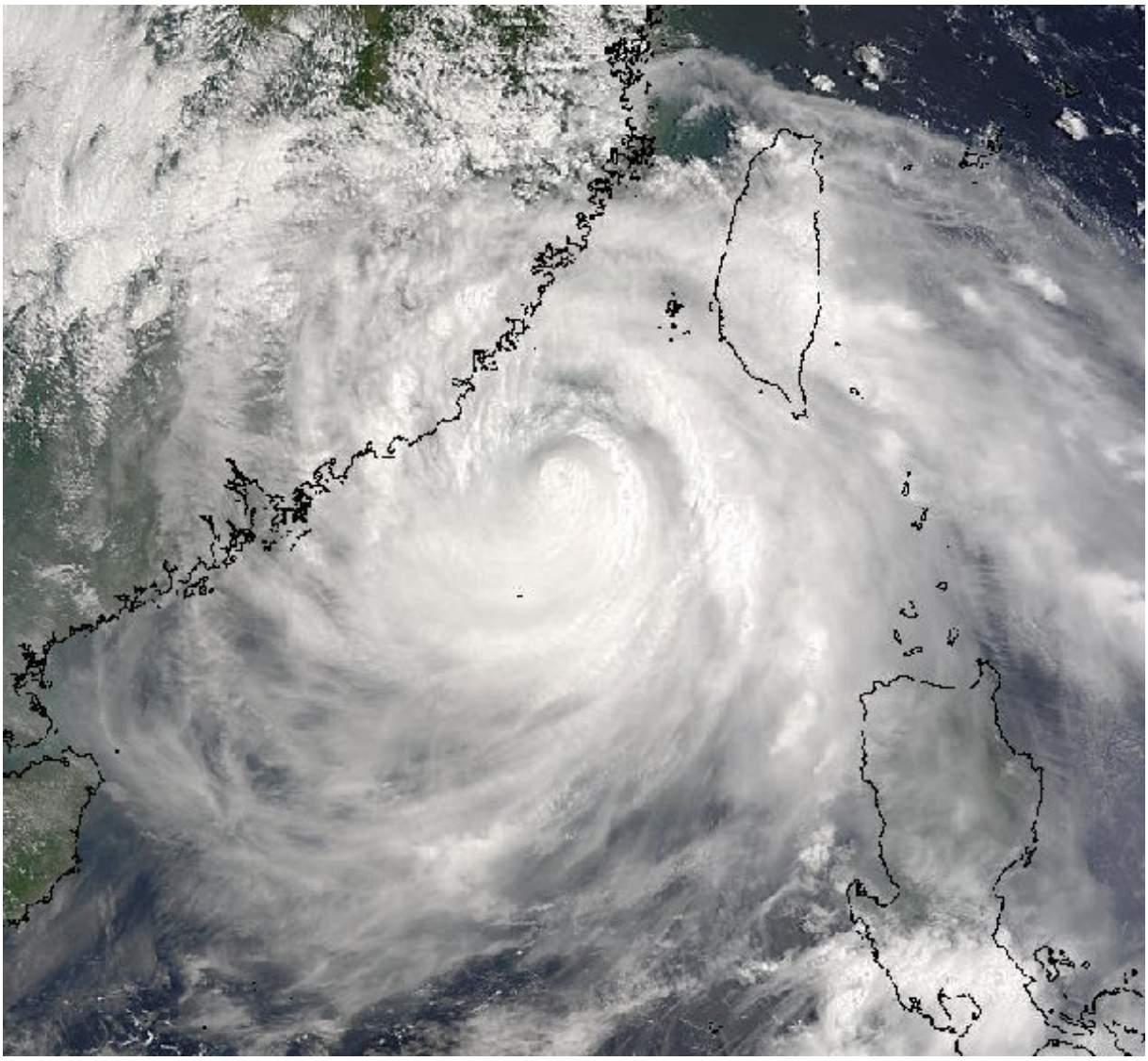

Figure 1-14W-4. 020250Z September 2003 MODIS true-color image of TY 14W (Dujuan), located in the South China Sea, with an intensity of 120 knots.

TYPHOON 14W (DUJUAN)
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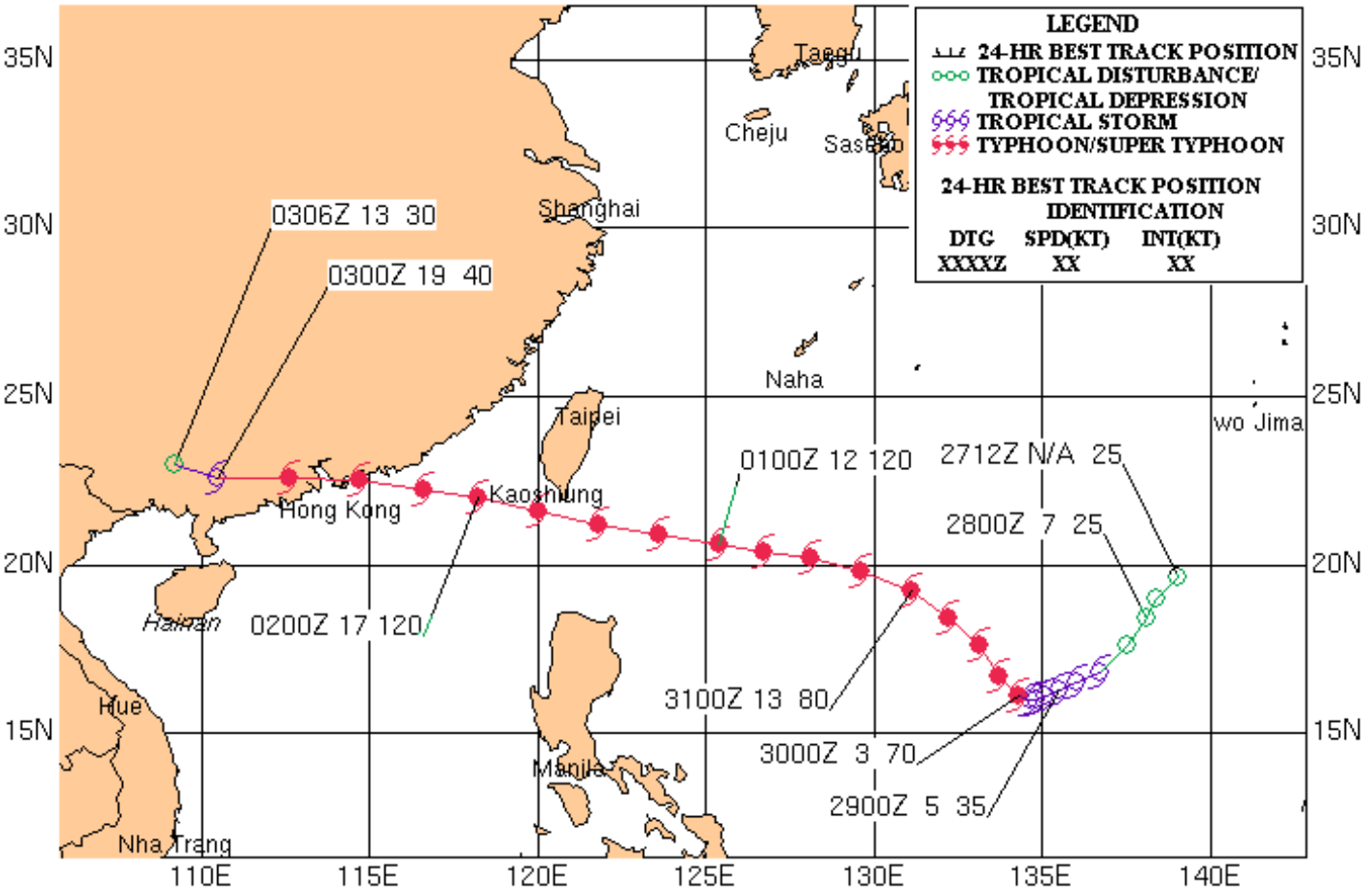

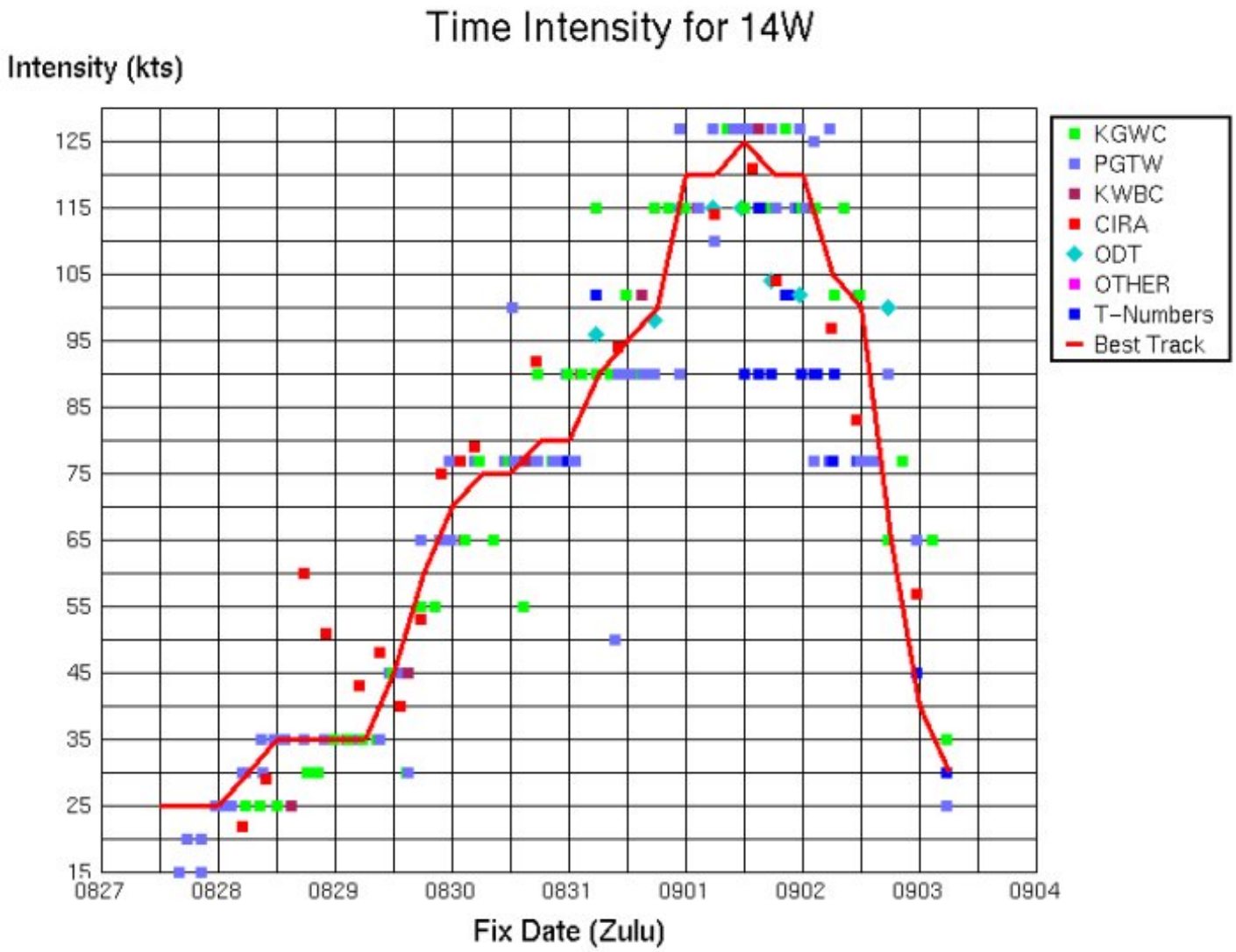
Time Intensity for 14W
Intensity (kts)
125
115
105
95
85
75
65
55
45
35
25
15
0827
0828
0829
0830
0831
0901
0902
0903
0904
Fix Date (Zulu)
KGWC
PGTW
KWBC
CIRA
ODT
OTHER
T-Numbers
Best Track