

Tropical Cyclone (TC) 20S (Graham)*



First Poor : 1800Z 24 Feb 03 to 2300Z 26 Feb 03

First Fair : 0430Z 23 Feb 03 and 2300Z 26 Feb 03

First TCFA : 0230Z 27 Feb 03

First Warning : 1800Z 27 Feb 03

Last Warning : 0600Z 01 Mar 03, Dissipated

Max Intensity : 40 kts, gusts to 50 kts

Landfall : East of Mandora, Australia in the Eighty Mile Beach region

Total Warnings : 4

Remarks:

(1) Tropical Cyclone (TC) 20S was first noted as an exposed low level circulation displaced from the convective activity about 210 nm east-northeast of Port Hedland, Australia around 24 February 2003. This weak exposed tropical cyclone remained quasi-stationary for approximately 48 hours. After that period, the synoptic scale patterns changed and allowed for vertical recoupling and cyclone movement toward the southeast. Due to the close proximity to land and movement into the Joseph Bonaparte Gulf, only 4 warnings were issued before the cyclone made landfall and was finished.

(2) No operational impacts and no damage was reported.

*Named by WMO designated RSMC

Statistics for JTWC on TC20S

DTG	WRN NO.	BEST TRACK		wind	POSITION ERRORS								WIND ERRORS							
		LAT	LONG		00	12	24	36	48	72	96	120	00	12	24	36	48	72	96	120
03022412		17.3S	118.5E	25																
03022418		17.1S	118.4E	25																
03022500		16.9S	118.4E	25																
03022506		16.7S	118.4E	25																
03022512		16.6S	118.6E	25																
03022518		16.8S	118.7E	25																
03022600		17.0S	118.8E	25																
03022606		17.2S	118.9E	25																
03022612		17.4S	119.0E	25																
03022618		17.6S	119.1E	25																
03022700		17.7S	119.4E	25																
03022706		17.7S	119.8E	25																
03022712		17.8S	120.2E	30																
03022718	1	18.0S	120.5E	30	8	29	62	66					0	10	-10	-5				
03022806	2	18.6S	120.7E	30	21	42	51	90					5	5	0	5				
03022818	3	19.6S	121.1E	35	8	46	112						0	0	5					
03030106	4	20.3S	121.7E	25	53	112							0	10						
03030112		20.8S	122.0E	20																
03030118		21.5S	122.2E	15																
			AVERAGE		23	57	75	78					1	6	5	5				
			BIAS										1	6	-2	0				
			# CASES		4	4	3	2					4	4	3	2				

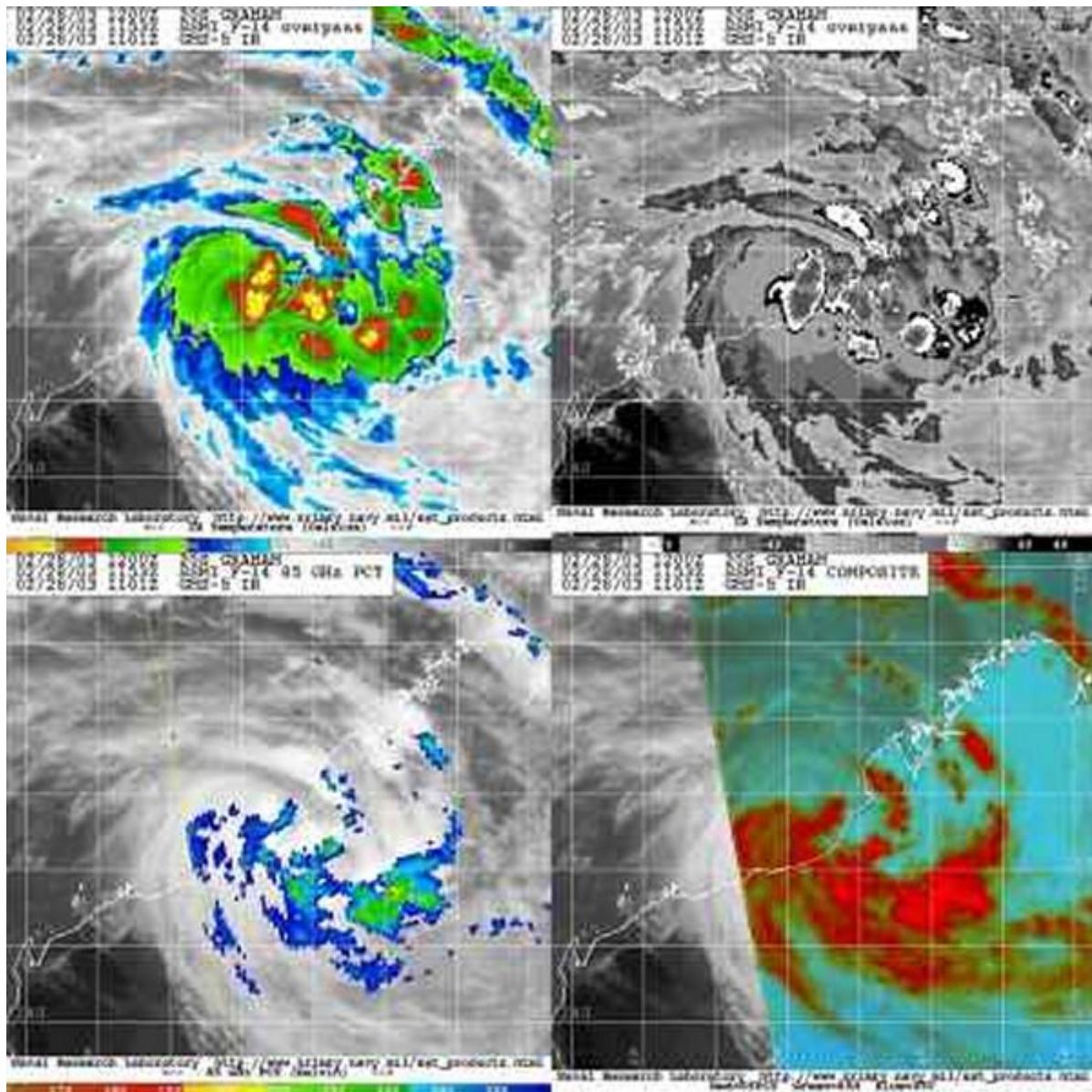
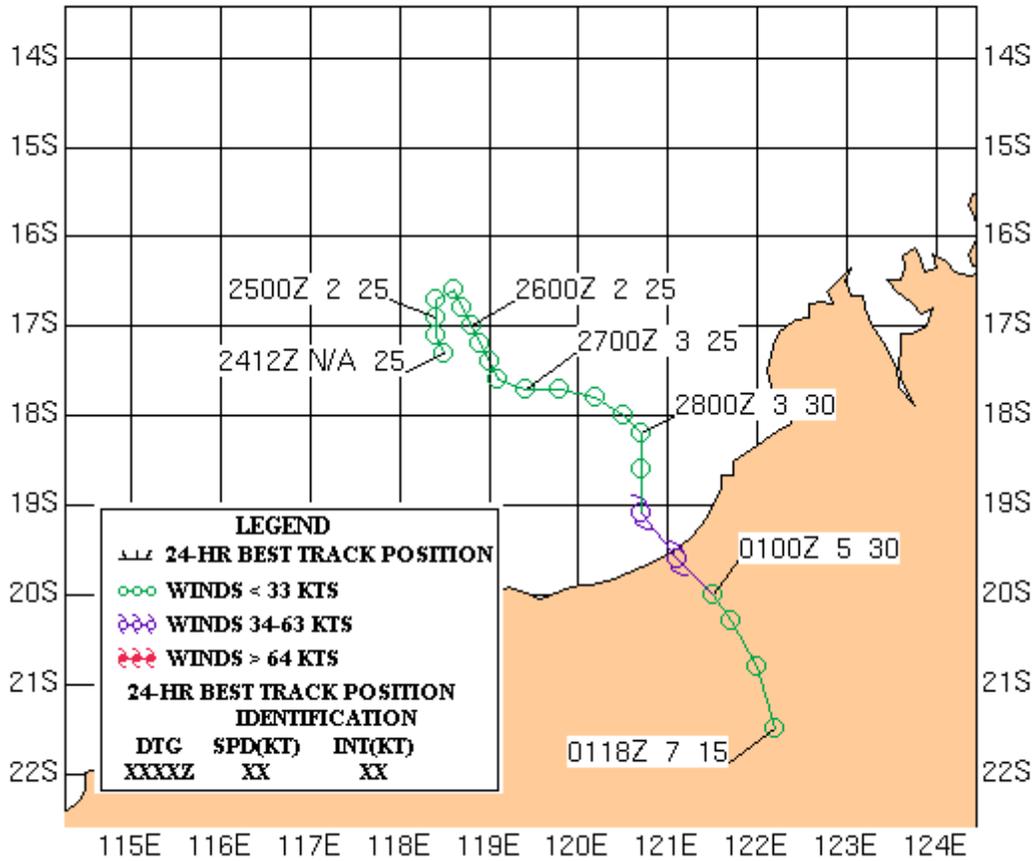


Figure 2-20S-1. 281153Z February 2003 multi-sensor satellite images of TC 20S (Graham), just off the northwest coast of Australia prior to landfall, with an intensity of 35 knots.

**TROPICAL CYCLONE 20S (GRAHAM)
27 FEB - 01 MAR 2003**



Time Intensity for 20S

Intensity (kts)

