



Australian Government
Bureau of Meteorology

Tropical Cyclone Walter

3 – 13 March 1990

Perth Tropical Cyclone Warning Centre
Bureau of Meteorology

A. Summary

Walter was unusual in that it reached tropical cyclone intensity, decayed and then re-intensified to tropical cyclone intensity again. *Walter* also had a very unusual track and spent several days moving to the northeast and northwest.

A tropical low with an estimated central pressure of 1000 hPa was identified on 3 March near 14.6°S, 94.0°E. A high latitude cold front initially steered the low to the southeast. As the influence of the front weakened, a high pressure ridge that was being established behind the front caused the cyclone to change direction towards the southwest on 6 March.

Walter first reached cyclone intensity at 1800 4 March and reached maximum intensity (985 hPa) at 0700 6 March as it started moving towards the southwest. The cyclone then continued to move in a generally westerly direction and weakened; by 0600 8 March it had degenerated to a tropical low.

It tracked north northeast and weakened further until 1200 on 10 March when it first tracked to the north, then northwest and re-intensified so that by 1800 12 March *Walter* was again generating gales. It tracked west northwest and continued to intensify and crossed 90°E whereupon it was renamed *Gregoria* by the Mauritius Weather Service.

Table 1. Best track summary for Walter, 3 – 14 March 1990

Note: Add 8 hours to convert to WST. Refer to best track database for complete track details.

Year	Month	Day	Hour (UTC)	Position Latitude S	Position Longitude E	Max wind 10min knots	Central Pressure hPa	Rad. of Gales nm
1990	03	3	1800	14.6	94.0	30	1000	
1990	03	4	0000	14.8	94.0	30	1000	
1990	03	4	0600	15.2	94.1	30	1000	
1990	03	4	1200	15.7	94.4	35	998	
1990	03	4	1800	16.2	94.8	40	995	
1990	03	5	0000	17.0	95.5	40	995	
1990	03	5	0600	17.7	96.2	45	992	
1990	03	5	1200	18.3	96.8	45	990	
1990	03	5	1800	19.2	97.4	50	987	120
1990	03	6	0000	20.0	98.0	55	985	120
1990	03	6	0600	20.5	98.2	55	985	120
1990	03	6	1200	21.0	98.0	50	988	
1990	03	6	1800	21.3	97.5	45	991	
1990	03	7	0000	21.2	96.8	40	993	
1990	03	7	0600	21.1	95.8	40	995	
1990	03	7	1200	20.9	95.6	40	995	
1990	03	7	1800	20.5	95.0	40	995	
1990	03	8	0000	20.2	94.9	40	995	
1990	03	8	0600	19.8	95.0	35	996	
1990	03	8	1200	19.3	95.1	35	998	
1990	03	8	1800	18.6	95.4	35	999	
1990	03	9	0000	17.5	95.9	30	1000	
1990	03	9	0600	17.0	96.3	25	1002	
1990	03	9	1200	16.6	96.6	25	1002	
1990	03	9	1800	16.2	96.8	25	1002	
1990	03	10	0000	15.8	97.2	25	1003	
1990	03	10	0600	15.4	97.8	25	1004	
1990	03	10	1200	15.2	98.2	25	1003	
1990	03	10	1800	14.8	98.3	25	1002	
1990	03	11	0000	14.3	98.4	25	1002	
1990	03	11	0600	14.0	98.2	30	1000	
1990	03	11	1200	13.8	98.0	30	1000	
1990	03	11	1800	13.5	97.7	30	1000	
1990	03	12	0000	13.3	97.4	35	998	
1990	03	12	0600	13.2	97.0	35	997	
1990	03	12	1200	12.8	95.7	35	997	
1990	03	12	1800	12.6	94.4	35	996	
1990	03	13	0000	12.3	93.2	45	990	
1990	03	13	0600	12.1	91.8	50	988	
1990	03	13	1200	12.0	90.8	55	985	
1990	03	13	1800	11.8	89.6	55	983	
1990	03	14	0000	11.7	89.0	60	980	
1990	03	14	0600	11.6	88.5	65	978	
1990	03	14	1200	11.6	87.8	65	976	

Figure 1. Track of Tropical Cyclone Walter, 4 – 14 March 1990
All times in WST.

