



Australian Government
Bureau of Meteorology

Severe Tropical Cyclone *Bertie*

18-24 November 2005

Perth Tropical Cyclone Warning Centre
Bureau of Meteorology

A. Summary

An early season tropical low developed in the central Indian Ocean on 18 November and reached tropical cyclone intensity the following day near 6°S 94°E. *Bertie* moved to the south southwest reaching category 3 intensity on 21 November and then category 4 before weakening late on 23 November as it moved west of 90°E into La Reunion's area of responsibility and was renamed *Alvin*. There was no known impact from *Bertie*.

B. Meteorological Description

An early season tropical low developed within a monsoon trough on 18 November reaching tropical cyclone intensity at 0600 UTC on 19 November (operationally it was named *Bertie* earlier at 19/0000 UTC) over open waters near 6S 94E. *Bertie* moved to the south southwest remaining a category 1 system until developing after 20/0000UTC as it moved into an area of low wind shear. *Bertie* reached category 3 intensity at 0600 UTC on 21 November and then category 4 at 0600 UTC on 22 November.

Responsibility for *Bertie* was transferred to La Reunion following the 22/1300UTC warning as it approached 90E but the cyclone then tracked southwards just east of the 90E border. The system peaked in intensity as a T6.0 (sustained 100 knot winds). Weakening began late on 23 November prior to crossing west of 90E by 0000 UTC 24 November. By this stage the system had been renamed *Alvin*. The cyclone then took a west northwest track and gradually weakened.

C. Impact

There was no known impact from *Bertie*.

D. Observations

Nil.

Table 1. Best track summary for Severe Tropical Cyclone *Bertie*, 18-24 November 2005.

Year	Month	Day	Hour	Position Latitude S	Position Longitude E	Position Accuracy nm	Central Pressure hPa	Max Wind 10min knots	Max Gust knots	Radius Gales knots	Radius Storm Wind knots	Radius Hurricane Wind knots	Radius Max Wind (RMW)
2005	11	18	6	4.5	95.5	40	1004	25	45				
2005	11	18	12	4.5	95.5	40	1002	25	45				
2005	11	18	18	4.8	95.0	30	1000	25	45				
2005	11	19	0	5.5	94.5	30	998	30	45				
2005	11	19	6	6.6	94.2	30	994	35	50	90			20
2005	11	19	12	7.0	94.0	30	992	40	55	90			20
2005	11	19	18	7.4	94.0	30	988	45	60	90			20
2005	11	20	0	7.6	94.0	30	988	45	60	90			20
2005	11	20	6	8.0	93.8	10	984	50	70	90	60		20
2005	11	20	12	8.4	93.6	10	984	50	70	90	60		20
2005	11	20	18	8.8	93.2	10	984	50	70	75	50		20
2005	11	21	0	9.0	92.8	10	976	55	80	60	40		20
2005	11	21	6	9.6	92.3	10	970	65	90	60	40		20
2005	11	21	12	10.1	91.8	10	966	70	95	60	40	20	20
2005	11	21	18	10.5	91.3	10	962	75	105	60	40	20	20
2005	11	22	0	10.9	91.2	10	962	75	105	60	40	20	15
2005	11	22	6	11.5	90.9	10	942	90	125	60	40	20	15
2005	11	22	12	11.8	90.5	10	928	100	145	60	40	20	15
2005	11	22	18	12.2	90.4	10	928	100	145	75	50	20	15
2005	11	23	0	12.6	90.3	10	928	100	145	90	60	20	15
2005	11	23	6	12.9	90.3	10	928	100	145	90	60	20	15
2005	11	23	12	13.5	90.2	10	928	100	145	90	60	20	15
2005	11	23	18	14.1	90.0	10	936	95	135	90	60	20	15
2005	11	24	0	14.3	89.8	10	936	95	135	90	60	20	15

Figure 1. Track of Severe Tropical Cyclone *Bertie*, 18-24 November 2005.

