



Australian Government
Bureau of Meteorology

Tropical Cyclone *Vincent*

12 – 15 February 2001

Perth Tropical Cyclone Warning Centre
Bureau of Meteorology

A. Summary

Vincent was an Indian Ocean cyclone that reached category 2 intensity as it moved in a general southeast direction and weakening before it reached the west Kimberley coast. There were no known impacts from this system.

B. Meteorological Description

Tropical Cyclone *Vincent* formed from a low embedded in an active monsoon trough in the Indian Ocean, nearly 1000 km off the northwest Australian coast.

The low had been prevented from developing for several days due to strong vertical wind shear, but the shear weakened sufficiently to allow *Vincent* to develop on 12 February.

A strong westerly monsoon steered the system to the east southeast as it intensified to storm force. A resumption of vertical wind shear weakened *Vincent* during 14 February. The low level centre continued to track east south-eastwards in the monsoon trough while the deep convection became increasingly displaced to the west through shear.

The system weakened below cyclone strength on 15 February prior to the low level centre crossing the coast south of Broome. At this time there was still a large area of monsoonal gales to the north of the trough, but winds on the southern side of the trough were only moderate. For most of its lifetime this system had the characteristics of a monsoon low, with the strongest winds being somewhat displaced from the centre, and a band of strong monsoonal winds evident well to the north.

C. Impact

Vincent is not known to have caused any damage.

D. Observations

Nil.

Table 1. Best track summary for Tropical Cyclone *Vincent* 12 – 15 February 2001.

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

Year	Month	Day	Hour	Latitude	Longitude	Max Wind Knots	Central Pressure hPa	Radius of Gales nm
2001	2	12	0100	14.9	110.9	40	990	
2001	2	12	0400	14.7	110.8	45	988	
2001	2	12	0700	14.5	111.0	50	984	25
2001	2	12	1000	14.4	111.4	55	980	50
2001	2	12	1300	14.4	111.9	55	980	50
2001	2	12	1600	14.4	112.4	55	980	50
2001	2	12	1900	14.5	113.0	55	980	50
2001	2	12	2200	14.5	113.7	50	984	50
2001	2	13	0100	14.6	114.4	50	984	50
2001	2	13	0400	14.9	115.0	45	986	50
2001	2	13	0700	15.2	115.3	45	986	50
2001	2	13	1000	15.4	115.6	45	988	25
2001	2	13	1300	15.5	116.1	45	988	25
2001	2	13	1600	15.5	116.7	40	990	
2001	2	13	1900	15.6	117.3	40	990	
2001	2	13	2200	15.8	117.8	40	990	
2001	2	14	0100	16.0	118.3	40	990	
2001	2	14	0400	16.2	118.5	40	990	
2001	2	14	0700	16.5	118.8	40	990	
2001	2	14	1000	16.7	119.1	40	990	
2001	2	14	1600	16.8	119.7	40	990	
2001	2	14	2200	16.9	120.1	40	990	
2001	2	15	0400	17.1	120.7	40	990	
2001	2	15	1000	17.8	121.7	40	990	

Figure 1. Track of Tropical Cyclone *Vincent* 12 – 15 February 2001
All times in WST.

