



**Australian Government**  
**Bureau of Meteorology**

**Tropical Cyclone *Alison***

5 – 10 April 1986

Perth Tropical Cyclone Warning Centre  
Bureau of Meteorology

**A. Summary**

*Alison* was a westerly moving tropical cyclone in the Indian Ocean and passed just north of Cocos Islands where gale-force winds were briefly registered. *Alison* reached category three intensity as it crossed 90°E and still developing when it moved into the Mauritius area of responsibility and was renamed *Krisostoma*.

**B. Meteorological Description**

A weak surface low was initially located near 11.3°S, 105.2°E at 1800 UTC 4 April. Intensification and westward movement were both slow in the early stages of development. By 0600 UTC 7 April gale force winds were inferred from Dvorak analysis of satellite imagery, however, no surface reports were available within the area.

The cyclone passed 80 km to the north of Cocos Island and at 1200 UTC 8 April gale force winds gusting to 89 km/h were reported from the island. Winds on the southern flank of the system were enhanced by a high pressure system to the south. At 0000 UTC 9 April, when the cyclone with a central pressure of 984 hPa was at 11.93°S, 93.5°E, a ship northwest of the centre reported southerly winds of 74 km/h.

The cyclone continued to deepen and after 0300 UTC 9 April (12.3°S, 92.8°E) began to move on a more south-westerly track. By 1800 UTC 9 April, *Alison* was at 14.1°S, 89.8°E, within the Mauritius area of responsibility, with a central pressure of 974 hPa.

**C. Impact**

While gale-force winds were recorded at Cocos Islands there were no known damage associated with TC *Alison*.

**Table 1 Best track summary for Tropical Cyclone Alison 5 - 9 April 1986**

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
1986	04	4	1800	11.3	105.2	25	1003	
1986	04	5	0000	11.0	104.6	25	1003	
1986	04	5	0600	10.9	104.0	25	1003	
1986	04	5	1200	10.9	103.4	25	1003	
1986	04	5	1800	10.9	102.9	25	1003	
1986	04	6	0000	10.8	102.4	25	1003	
1986	04	6	0600	10.8	102.0	25	1001	
1986	04	6	1200	10.7	101.6	25	1001	
1986	04	6	1800	10.7	101.4	30	1000	
1986	04	7	0000	10.7	101.2	35	998	
1986	04	7	0600	10.8	100.7	35	997	
1986	04	7	1200	11.1	99.6	35	997	
1986	04	7	1800	11.1	98.7	40	995	
1986	04	7	2100	11.1	98.3	45	993	
1986	04	8	0000	11.3	97.9	45	991	
1986	04	8	0300	11.4	97.4	45	991	
1986	04	8	0600	11.4	96.9	45	991	
1986	04	8	0900	11.4	96.4	45	991	
1986	04	8	1200	11.6	96.0	45	990	115
1986	04	8	1600	11.7	95.2	45	990	
1986	04	8	1800	11.8	94.9	50	988	90
1986	04	9	0000	11.9	93.5	55	984	85
1986	04	9	0600	12.6	92.1	60	982	
1986	04	9	1200	13.5	91.0	65	978	
1986	04	9	1800	14.1	89.8	70	974	

\*Note: Radius of gales field incomplete.

Figure 1. Track of Tropical Cyclone *Alison*, 5 - 10 April 1986  
All times in WST.

