



Australian Government
Bureau of Meteorology

Tropical Cyclone *Sally*

7 – 9 January 2005

Perth Tropical Cyclone Warning Centre
Bureau of Meteorology

A. Summary

Tropical cyclone *Sally* tracked south near 100°E developing as it passed through the shear minimum and reaching category two intensity before weakening as it encountered cooler waters. There was no known damage associated with this system.

B. Meteorological Description

Intensity

A low formed in the active monsoon trough between Cocos and Christmas Islands on 6 January. Early on 7 January a LLCC became clearly visible to the east of convection. During the day the low continued to develop as the vertical wind shear decreased. A Quikscat pass at 1200 UTC 7 January showed a small area of 35 knot winds (rain affected). As the system showed signs of continued development in its cloud structure it was estimated to have reached cyclone intensity at 1800 UTC 7 January.

Visible imagery on 8 January showed a tightly curved band wrapping around the centre of the cyclone. The system reached peak intensity early 9 January with a Quikscat pass indicating an area of 50 knot winds close to the centre of TC *Sally*. By 1200 UTC 9 January shear analysis showed the vertical shear increased and the cloud structure appeared less well defined. TC *Sally* quickly decreased below cyclone intensity by 0300 UTC 10 January under strong vertical shear with no LLCC discernible by 0600 UTC.

Motion

TC *Sally* moved a southerly direction over its lifetime and was predominantly steered by the mid-level ridge to its east.

C. Impact

There was no known damage associated with TC *Sally*.

D. Observations

Nil.

Table 1 Best track summary for Tropical Cyclone *Sally* 6 – 10 January 2005.
 Note: Add 8 hours to convert to WST. Refer to best track database for complete track details.

Year	Month	Day	Hour (UTC)	Latitude S	Longitude E	Max Wind knots	Central Pressure hPa	Radius Gales nm
2005	1	6	0600	9.0	99.0	20	1000	
2005	1	6	1200	9.8	98.9	25	1000	
2005	1	6	1800	10.6	99.4	25	1000	
2005	1	7	0000	11.3	100.3	25	1000	
2005	1	7	0600	12.0	100.8	25	1000	
2005	1	7	1200	12.4	101.1	30	1000	
2005	1	7	1800	13.3	101.1	35	995	95
2005	1	8	0000	13.6	100.6	35	995	95
2005	1	8	0600	13.7	100.4	35	995	55
2005	1	8	1200	13.8	100.3	40	990	55
2005	1	8	1800	14.1	99.9	45	990	55
2005	1	9	0000	14.6	99.6	50	985	55
2005	1	9	0600	15.1	99.2	50	985	55
2005	1	9	1200	15.5	98.8	45	990	55
2005	1	9	1800	15.9	98.4	40	990	55
2005	1	10	0000	16.3	98.0	35	990	35
2005	1	10	0600	16.7	97.6	30	1000	

Figure 1. Track of Tropical Cyclone *Sally* 6 – 10 January 2005.
 All times in WST.

