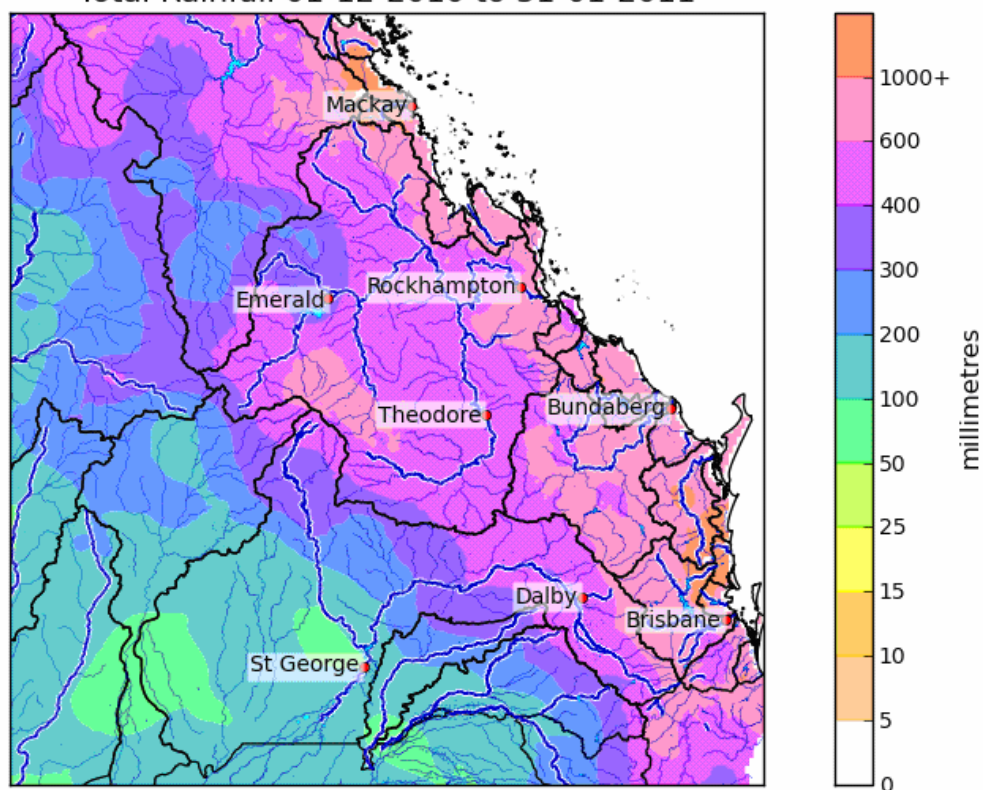


- http://www.bom.gov.au/hydro/flood/qld/brochures/river_maps.shtml

Rainfall summary

- Between 300 and 600 millimetres of rainfall was recorded over the Condamine River catchment from the start of December 2010 to the end of January 2011 with falls greater than 600mm over the far east of the catchment.
- The heaviest rainfall periods during December occurred from the 26/12/2010 to 28/12/2010 with falls between 100 and 200 millimetres.

Total Rainfall 01-12-2010 to 31-01-2011



Total Rainfall 26-12-2010 to 28-12-2010

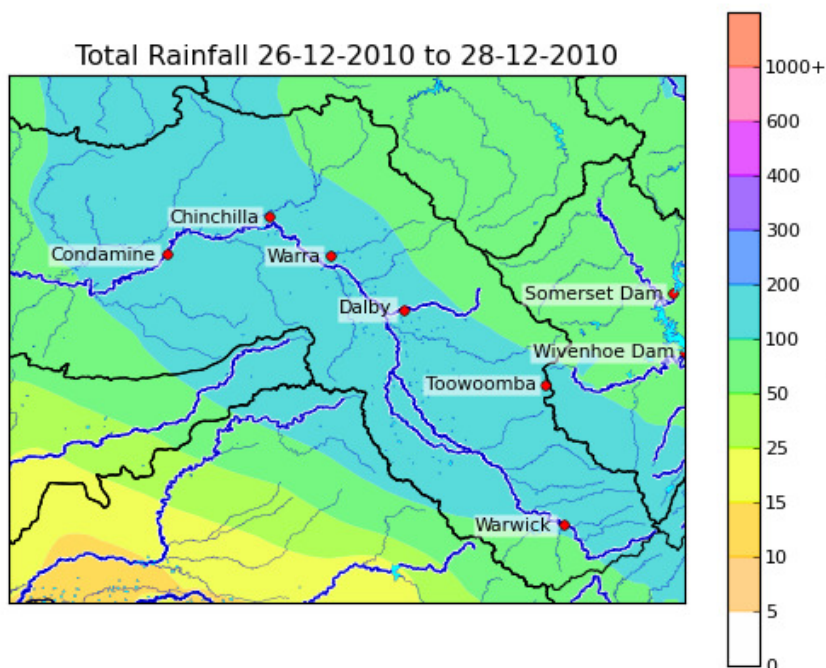


Figure 3. Rainfall map from 01/12/2010 to 31/01/2011 (top) and for the period from the 26/12/2010 to 28/12/2010 (bottom).

Rainfall Intensity

- The December and January floods at Condamine Town were not caused by local area intense rainfall and rainfall intensity analysis of single sites in the large catchment above Condamine Town is not informative.
- The flood levels at Condamine Town were the result of the combination of large flows in Charleys Creek, Myall Creek and the Upper Condamine River.

Flood event timeline

Table 2. Flood timeline for Condamine

Time/Date	Event Description	Gauge Height (metres)	Comment
7:48 AM 05/12/2010	First warning issued		
20/12/2010	River level first exceeds the minor flood level.	5.00	Remained above the minor flood level for 35 days.
23/12/2010	River level first exceeds the moderate flood level	7.00	Remained above the moderate flood level for 31 days.
9:00 AM 24/12/2010	River level first exceeds the major flood level	8.00	Remained above the major flood level for 29 days.
6:15 AM 01/01/2011	First major flood peak	15.25	Record Flood Peak for Condamine.
9:00 AM 16/01/2011	Second major flood peak	14.67	Second highest peak on record.
22/01/2011	Final fall below major	8.00	
23/01/2011	Final fall below moderate	7.00	
24/01/2011	Final fall below minor	5.00	
24/01/2011	Final warning issued for Condamine Town.		

Flood Heights at Condamine

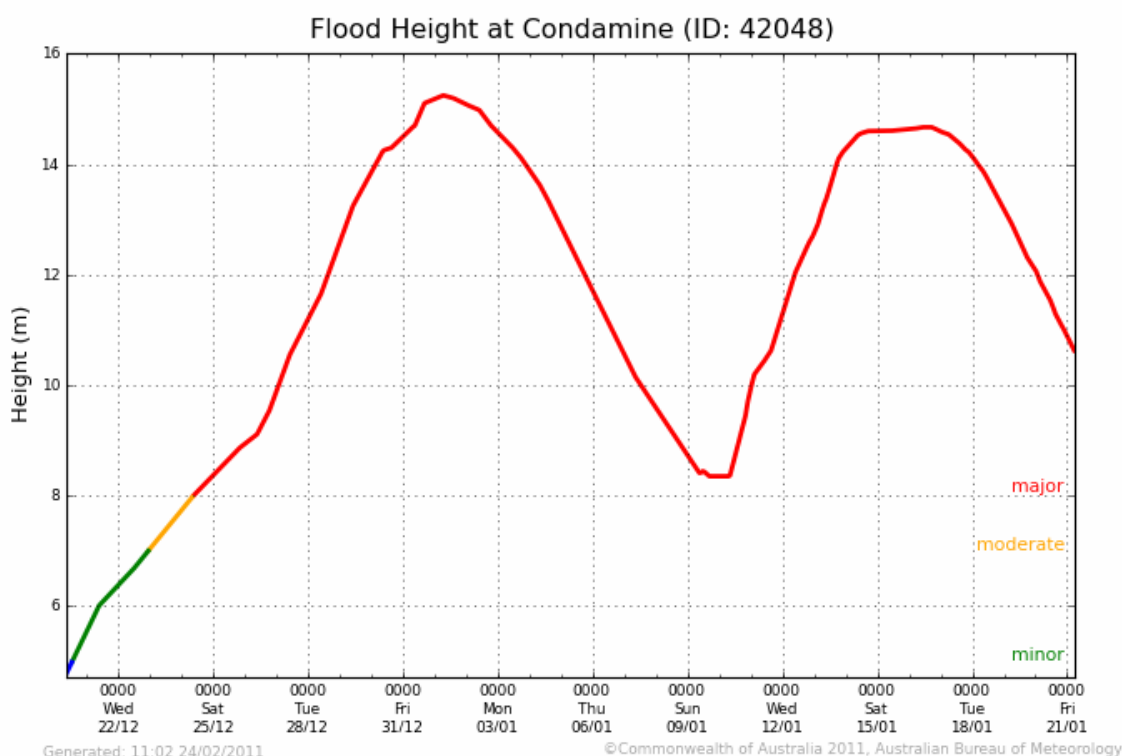


Figure 4. Flood Heights at Condamine manual gauge for December 2010 and January 2011

Comparison with previous floods

- River height records for Condamine commenced in 1922.
- River height peaks in January 2011 rank as the two highest flood peaks recorded for the town with the peak of 15.25 metres recorded on 01/01/ 2011 the new highest peak on record.
- The previous time the river level at Condamine exceeded 14 metres was in May 1983.

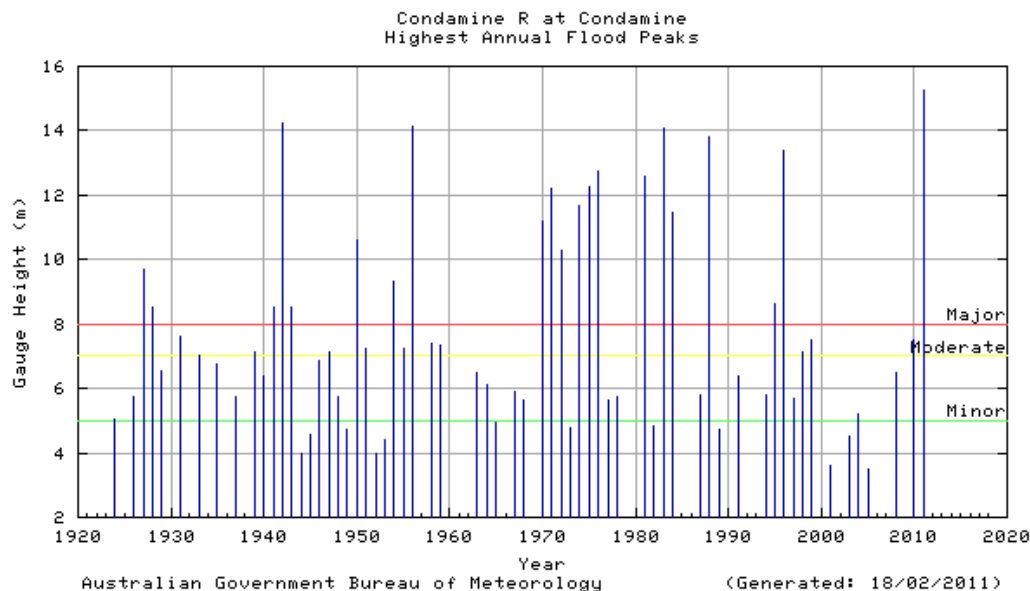


Figure 5. Highest annual flood peaks for the Condamine River at Condamine

Warning and Forecast Service

- The first warning for the Condamine-Balonne River was issued on 05/12/2010 for minor flooding in the Condamine River and more significant flooding in the Maranoa and Balonne Rivers. However, further rainfall in December saw the continuation of the Condamine-Balonne River Flood Warning through to 10/02/2011.
- Major flooding was first predicted for Condamine in the Flood Warning issued at 10 PM on 19/12/2010. Renewed rises were caused by widespread thunderstorm activity over the upper Condamine catchment including Myall and Charleys Creek.
- A total of 103 warnings were issued for the Condamine-Balonne River system during December 2010 and January 2011.

Table 3. Table of peak height predictions for Condamine

Time of Height Forecast	Forecast	Peak
05/12/2010 First warning issued. Condamine Manual Station has not commenced reporting at this time.		
12:03 PM on Tuesday the 21st of December 2010	A major flood peak is expected at Condamine of at least 9 to 10 metres during the weekend	Rising limb forecasts – reach a level and expected to continue rising.
10:59 AM on Saturday the 25th of December 2010	A major flood peak of between 9 and 10 metres is expected at Condamine on Sunday	
10:07 AM on Sunday the 26th of December 2010	A major flood peak of around 10 metres is expected at Condamine on Monday	
6:47 AM on Monday the 27th of December 2010	A major flood peak of between 10 to 11 metres is now expected on Wednesday at Condamine township	

12:36 PM on Monday the 27th of December 2010	A major flood peak of between 11 to 12 metres is now expected on Tuesday at Condamine township	
5:26 PM on Monday the 27th of December 2010	Further river rises are expected to extend downstream to the Condamine Town area and Cotswold area during this week. Major flooding is expected to continue for at least the next 2 weeks.	
7:08 AM on Tuesday the 28th of December 2010	Major flooding is expected to continue for at least the next 2 weeks.	
10:19 AM on Wednesday the 29th of December 2010	Record flood levels at Condamine are expected during the weekend and into next week.	
12:48 PM on Wednesday the 29th of December 2010	Flood levels to reach around 14 metres. Levels may reach or just exceed the 1942 flood record height of 14.25 metres.	
7:55 AM on Friday the 31st of December 2010	Reach about 15 metres (major) later this weekend.	New Record 15.25 metres at 6:15 AM Sat 01/01/2011
12:50 PM on Friday the 31st of December 2010	Condamine Township Reach, and possibly exceed, 15 metres (major) during this weekend.	
7:11 PM on Friday the 31st of December 2010	Continue rising at record levels. Peak during Sunday.	
6:19 PM on Saturday the 1st of January 2011	The river level at Condamine Township at 2pm Saturday was 15.2m and steady with levels expected to remain steady overnight Saturday.	
3:40 PM on Sunday the 2nd of January 2011	Continue falling slowly during this week.	River levels falling.
7:27 AM on Sunday the 9th of January 2011	Further rain is forecast for the eastern Darling Downs area from today through to Tuesday which will cause renewed rises in creeks in the area, and may produce renewed Condamine River rises.	Rising limb forecasts reach a level and expected to continue rising
6:44 PM on Tuesday the 11th of January 2011	Exceed 13 metres during Thursday. Reach higher levels going into the weekend.	
7:28 AM on Wednesday the 12th of January 2011	Exceed 13 metres during Thursday with further rises and levels to around 14.8 metres by the weekend.	14.67 metres at 9:00 AM Sun 16/01/2011
10:10 AM on Thursday the 13th of January 2011	Reach around 14.8 metres (major flood) during the weekend.	
10:55 AM on Saturday the 15th of January 2011	Peak around 15 metres overnight Sunday.	
8:28 AM on Sunday the 16th of January 2011	Peak to about 14.8 metres (major) during Sunday.	
9:00 AM on Monday the 17th of January 2011	A major flood peak of 14.67 metres was recorded at Condamine Township during Sunday. River levels to ease below 13.0 metres late Tuesday.	
10/02/2011 Final warning issued for the Condamine-Balonne River System.		

Note: This table does not include all forecasts issued during these flood events.