

# Tropical Cyclone and Flood Summary 1800-2006

<b>1825</b>	Major Edmund Lockyer mentioned the evidence of a large flood while in the area of Mount Crosby pumping station – “marks of drift grass and pieces of wood washed up on the sides of the banks and up into the branches of the trees, marked the flood to rise here of <b>100 feet.</b> ” <b>His remarks would seem to suggest that in September, 1825 the river had experienced a flood as great as that experienced in February, 1893.</b>
<b>Mar 1836</b>	Brisbane; Commandment of the Moreton Bay settlement, Captain Foster Fyans, wrote “we had constant rain from the <b>8 till 12 March.</b> The river rose <b>12 feet.</b> <b>(This measurement was only three feet lower in the Central Brisbane city area than the 1974 flood.)</b>
<b>1839</b>	Major flood experienced at Ipswich and Brisbane
<b>Jan 1841</b>	Brisbane: Highest flood in Brisbane’s recorded history to 2000. In 1896, JB Henderson, the Government Hydraulics Engineer in an address to Parliament reported that he found by examination of earlier plans that <b>the 1841 was 7 centimetres higher than the flood of 5 February, 1893.</b>
<b>Jun 1843</b>	Brisbane: A flood of <b>2.76 metres</b>
<b>Jan 1844</b>	Flood peak at Brisbane about <b>4 feet less than the record 1841 flood.</b>
<b>Apr 1852</b>	Heavy floods at Brisbane and Ipswich. Possibly peaked Tuesday <b>13 April</b> following the Easter Weekend.
<b>May 1857</b>	Floods Ipswich and Brisbane. River rose <b>12 feet</b> Brisbane. <b>19/20 May</b> Brisbane “The following morning the wharves were completely inundated with the water rising over the banks to flow the lower of both North and South Brisbane. St Stephen’s Cathedral site Albert and Elizabeth Street under flood.”  <b>From a correspondent of the Brisbane Courier, 29 June 1907. “The flood of 1857 was the result of eight weeks of continuous, but not heavy rain. At South Brisbane one could stand on a hill at Cordelia Street near Boundary Street and see an unbroken sheet of water stretching from Melbourne Street to Tribune Street.”</b>
<b>Feb 1863</b>	<b>Middle to late February</b> A tropical cyclone brought damaging winds and seas to region between Rockhampton and Hervey Bay. Houses unroofed in several centres with many trees blown down. Severe erosion along the shores of Hervey Bay with <b>10 metres lost to the sea along a 32 km stretch of the coast.</b> Twenty acres of forest lost to sea. <a href="http://www.tesaq.icu.edu.au/staff/inott/pracs/Cairnscyclones.doc">http://www.tesaq.icu.edu.au/staff/inott/pracs/Cairnscyclones.doc</a>

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<b>Mar 1863</b>	Flood in Queen Street, Brisbane. West side of Queen Street/Albert Street to Edward Street current strong, smashed windows and buildings. Heavy rain.
<b>Feb 1864</b>	(From Courier Mail files 8 – 13 Feb. 1864) “The weather has been very tempestuous and rainy during the early part of the week, and the Bremer and Brisbane Rivers rose above their usual flood tide levels.”
<b>Mar 1864</b>	<p>Long period of gales in Brisbane from <b>17 –19 March...</b> Stores, houses and trees blown down. At Milton much damage was done, and the whole of the cemeteries under water. Stone jetty washed away at Cleveland during a gale on 18 March. Considerable wind and rain damage at Toowoomba and Gladstone. Severe flooding at <b>Maryborough reached 27 feet (8.2m) above low water mark.</b> Water reached the eaves of cottages in Maryborough and one home swept away. At 4am on 19 March wind shifted from ESE to NW with increased violence. The Barque ‘Panama’ 414 tons was wrecked on Sandy Cape with the loss of eleven lives.</p> <p><a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>Mar 1864</b>	<p><b>23 – 30 March.</b> Flood damage at Oxley. People sheltering at high side of Coopers Plains. River <b>rose 18 feet</b> above the level reached during the flood that occurred a fortnight ago, and <b>10 feet above the flood of March 1863.</b></p> <p>Brisbane; The greatest amount of damage by recent floods occurred at South Brisbane. At Gatton the creek rose 15 feet higher than ever known before.</p>
<b>Apr 1864</b>	Interior areas of Queensland in impassable state after heavy rains; distressing accounts of destruction received from the northern and interior districts; lives lost.
<b>Oct 1866</b>	A terrific storm occurred at Brisbane and surrounding areas; town flooded and building unroofed.
<b>Dec 1866</b>	Almost incessant rain since 2is on <b>10 December till 12 December.</b> Floods Brisbane, North Coast and Ipswich.
<b>Feb 1867</b>	Heavy rain and flooding in parts of Ipswich, Brisbane and surrounds <b>1 and 2 February.</b> Severe flooding and gales Brisbane and surrounding areas with loss of life.

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<b>Apr 1867</b>	<b>26 - 28 April, 1867.</b> Southeast Queensland flooded. Wharves covered in Brisbane. Brisbane, Logan and Ipswich suffer structural and tree damage. Bridge at Ipswich destroyed Brisbane during week ending <b>27 April</b> , weather unsettled, and on Friday 26 rain fall steadily continued with little intermission. Squalls of wind and torrential rain. Surrounding areas in flood Southeast Queensland. Wind lifted houses of foundations. Barometer down to <b>993hPa</b> at sea level in Brisbane. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a>
<b>Jan 1870</b>	<b>31 January;</b> Creeks and rivers between Brisbane and Gympie swollen. The driver of the Gympie Coach swam across the floodwaters at Glass House Mountains to reach the mail. This was near Bankfoot House. Cyclonic south easterly winds near Bowen, disastrous floods. Fifteen lives lost in that vicinity.
<b>Mar 1870</b>	Great rains. On the <b>7 March</b> much of Brisbane showed signs of flooding. All creeks in district flooded. At Caboolture on 8 March the river rose 15 feet above ordinary water level. <b>5 March</b> at Maryborough wind veered from South to NW and reached hurricane force by daybreak. <b>13.9 inches</b> fell at Maryborough in the 24 hours to 9am on 6 March. Gympie in flood and houses damaged. <a href="http://www.tesag.jcu.edu.au/staff/jnott/pracs/Cairnscyclones.doc">http://www.tesag.jcu.edu.au/staff/jnott/pracs/Cairnscyclones.doc</a>
<b>Apr 1870</b>	Heavy rains and flooding throughout southern portion of the colony. (South East Queensland)
<b>Nov 1870</b>	Heavy rain on evening of <b>17</b> over the whole of the southern portion of the colony. Rainfall 24 hours ending 9am on 18 November <b>3.66 inches</b> .
<b>Dec 1872</b>	Almost all rivers and streams up country (meaning S/E Qld) during week of heavy rain.
<b>Jun 1873</b>	Heavy flood at Brisbane. At Ipswich one of the greatest floods experienced since 1864 occurred. Great damage throughout southern part of colony. Eight persons lost life.
<b>Dec 1873</b>	<b>28 December</b> , a tropical cyclone hit Bundaberg and Maryborough. Flooding and a lot of damage to property. 13 houses were blown down and some entirely destroyed. Hotels and commercial buildings were unroofed and farm houses were blown flat to the ground. Window pains blown out of buildings <a href="http://www.tesag.jcu.edu.au/staff/jnott/pracs/Cairnscyclones.doc">http://www.tesag.jcu.edu.au/staff/jnott/pracs/Cairnscyclones.doc</a>
<b>Jan 1874</b>	22 Jan, a furious gale along the northern coast destroyed much property. The S.S. <i>Lord Ashley</i> was caught in it and was almost wrecked. <a href="http://www.tesag.jcu.edu.au/staff/jnott/pracs/Cairnscyclones.doc">http://www.tesag.jcu.edu.au/staff/jnott/pracs/Cairnscyclones.doc</a>

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<b>Feb 1874</b>	Furious gale off coast. The schooner Chance returned to Maryborough on 26 February disabled. Gales off the north coast of colony.
<b>Feb 1875</b>	24 Feb, Steamer <b>Gothenberg</b> wrecked off Cape Upstart (near Ayr) in TC <b>102 lives lost</b> . On the 23rd NE gales and 8 inches (203mm) at Rockhampton. Gales and heavy rain at Maryborough. Winds at Maryborough were stronger on the 24th with flood rains. Flood there reached it highest point on the 28th at 28 feet (8.5m) above normal low water. At Pialba on 25th wind shifted from NE to SE and increased to a heavy gale with continuous rain. Heavy erosion on the beach. On the 26th gales shifted to NE. On the 1 <sup>st</sup> March R.M.S. <i>Brisbane</i> experienced a very heavy gale on the voyage from Sydney. Both saloon and second class cabins were flooded, the deck planks were damage and several horses and sheep drowned. <a href="http://www.tesag.jcu.edu.au/staff/inott/pracs/Cairnscyclones.doc">http://www.tesag.jcu.edu.au/staff/inott/pracs/Cairnscyclones.doc</a>
<b>Mar 1875</b>	Gales and heavy rain at Maryborough on <b>16 March</b> . Hurricane force winds along the coast. Verandas were blown down. A vessel at sea reported:- SE gale off Wide Bay bar on the 16th. !7th E and stronger gale with huge seas washing boat off deck. 4pm 17th wind lulled and turned W. 7pm 17th hurricane force WNW winds. Midnight moderating weather. <a href="http://www.tesag.jcu.edu.au/staff/inott/pracs/Cairnscyclones.doc">http://www.tesag.jcu.edu.au/staff/inott/pracs/Cairnscyclones.doc</a>
<b>1876</b>	<b>17 February</b> severe gale at Townsville with much damage in the town. <b>21 March Heavy gale at Townsville. SS <i>Banshee</i> wrecked at Hinchinbrook Is with seventeen persons drowned.</b> Two cyclones recorded February and March with loss of life and property damage between Townsville and Bowen. <a href="http://www.tesag.jcu.edu.au/staff/inott/pracs/Cairnscyclones.doc">http://www.tesag.jcu.edu.au/staff/inott/pracs/Cairnscyclones.doc</a>
<b>May 1877</b>	Tidal wave recorded off Australian east coast on 13 May. William Simpson who was one of the first white settlers in the Maleny-Peachester area described 1877 as having a very wet season. He had to pull Cobb and Co coaches out with his bullocks, when the coaches were bogged on the Gympie Road. Simpson also wrote of swimming gullies and creeks with the pack horses whilst camped getting cedar. Caloundra Local Studies, Unit Files
<b>Aug 1879</b>	The floods in Brisbane reached their highest mark. Victoria Baths washed down the Brisbane River.
<b>Aug 1883</b>	August 27, <b>Krakatoa</b> , an underwater Volcano erupted west of Java. Very soon after, a wave of water swept down Moreton Bay.

<b>Apr 1884</b>	<p>Flooding around Caloundra region. Double wedding of Lizzie Landsborough and Mary Jane Leach flooded and food washed down Duck Holes Creek, Caloundra. Dates are vague for this story but it seems to be around this date.</p> <p>“Mrs Trail’s house on the western side of Sippy Creek was in flood, there was no escape. She made a platform up in the rafters; put all the bed clothes and food on it and the children and she got up in the rafters with them The children were starving. The Quakers came from Meridan Downs (believed to be near Westaway’s Road, Little Mountain) in a flat bottomed punt and saved Mrs Trail and the children.” The area from Meridan Plains to Sippy Downs was a sea of water.</p> <p><small>Sunshine Coast Libraries Heritage Library Local Studies Files</small></p>
<b>Jan 1887</b>	<p>Heavy rain over Moreton and East Darling Divisions. 19-21 January -Gale off Double Island Point. Gales and flooding at Sandgate washed away bathing sheds. Many people rescued in South Pine district. Much hardship and loss of life in and around Brisbane. “Rain commenced on 19 January and during the 24 hours to 9am on 21<sup>st</sup>, 2.63 inches recorded. Between 9am and 4.30pm on the same day another 6.83 inches was recorded.” Qld Times 22/01/87</p> <p>21 January, Heavy gale and rains over southern part of Queensland with intense damage. 19th-21st Jan- W to NW gale off Double Island Point with telephone lines down along the coast. A ship, 43 km ENE of Noosa at 8pm 20<sup>th</sup> read bar 1002 hPa had SE winds and heavy NE swell. Bar 998 hPa at midnight with hurricane force winds then a lull with bar down to <b>992 hPa</b>. Then the wind turned NE with gales at 8pm 21<sup>st</sup> moderating by 8am 22<sup>nd</sup>. At 9am Friday 21<sup>st</sup> 2 inches or 51mm of rain past 24 hours in Brisbane and then <b>8 inches (203mm)</b> in succeeding 12 hours with gales. No major wind damage though <b>easterly gales at Sandgate had seas breaking over the jetty and all the bathing houses were washed away</b>- large trees were blown down in different directions. <b>A man was drowned at Woolloongabba and another at South Brisbane</b>. At Goodna flooded houses were under water. Rail lines cut out of Brisbane - Bowen Bridge 5 feet (1.5m) under water 4pm a large number of people were rescued from Breakfast Creek and a house floated into the Creek. Many people were rescued from the South Pine River and 2 miles of railway was washed away between Toombul and Bald Hills.</p> <p>On Saturday 22<sup>nd</sup> there was little rain in Brisbane with the low overland to the west. Many people rescued from floodwaters around Breakfast Creek.</p> <p><b>Two men were missing</b> at Gold Creek reservoir <b>believed drowned when water in the form of a large bore came over the by-wash</b>. The baths were carried away at Ipswich. <b>Three girls aged 7 to 10 were missing believed drowned</b>. 23rd - Very high flood Brisbane <b>crewman of barque Afton drowned</b> after the boat was swamped in fast flowing Brisbane River. 24th - 18 inches (457mm) in 24 hours at Brisbane - railway line washed away Laidley- boats rescuing people South Brisbane- <b>two men drowned- enormous amount of timber lost to sea</b> - There was fearful loss of property on the Logan River with the destruction of the railway Bridge. <b>At Logan a family of five were drowned, two men were drowned, a man and his son were drowned crossing a creek and 60 to 70 families were washed out of their homes</b>. 25th - The steamer <i>Barrabool</i> ran aground in Brisbane River and <b>two sailors drowned</b>. Flooding also at Bundaberg, Maryborough and Gympie (river 40 feet (12.2 m) above normal). There were stock losses in the thousands in the Warwick area. One newspaper (Maryborough <i>Chronicle</i>) <b>had the loss of life around Brisbane as 70</b>. <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>

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<p><b>Feb 1887</b></p>	<p>8 February, Gale SE to ESE with shipping halted and a ketch lost on Wide Bay Bar.  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p>22 February SE gales off Hervey Bay, floods Gympie, Maryborough and Tewantin. James Hipwood Mayor of Brisbane, requested the Caboolture Divisional Board to advise immediate information as to the urgent needs for food and clothing through floods in the Division. Cyclone north of Mackay. Gales off Hervey Bay with floods in Gympie and south of that area. Maryborough 13 inches rain in 24 hours.                  March; heavy rain and flooding in the area around Caloundra (water 6 inches above January flood mark) and Tewantin.</p> <p><b>August;</b> Very heavy rains in places on North and South Coast.</p>
<p><b>Feb 1888</b></p>	<p>17 February,TC recurved just east of Mackay Several Mackay houses were completely demolished. Wharves awash at Rockhampton (20th). Flooding at Piall with water three feet over the road at Stockyard Creek and rising and trees blown down in all directions. Enormous Breakers were raging outside of Fraser Island.  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<p><b>Jan 1890</b></p>	<p>28 January to 1 February,TC off North Coast 28<sup>th</sup> (the bar at Townsville on the 28<sup>th</sup> was 995.6 hPa), Central Coast 30<sup>th</sup> and South Coast 1<sup>st</sup>. Floods at Maryborough 28<sup>th</sup>, the wharves were under a foot of water and a <b>man drowned in Alice Street</b>. In Bundaberg there was <b>one known death</b> and Plantations, Sawmills, a Foundry and farms were badly damaged by floods and 200 houses were affected some submerged to the roofs. Easterly gales reported at Burnett Heads. There were floods at Gympie and Brisbane peaking on the 25<sup>th</sup> with 4 to 7 feet of water over Mary Street at Gympie. At Mackay gales and heavy seas disrupted shipping on the 29<sup>th</sup>.  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p>Tropical Cyclone North Coast. Flooding in Maryborough. There were floods between Gympie and Brisbane. Most of Queensland rivers south of Bundaberg flooded</p>
<p><b>Mar 1890</b></p>	<p><b>11 March</b> Tropical Cyclone crossed South Queensland Coast. Brisbane flooding with 24 hours of rainfall recorded 360mm. Owing to floods all telegraphic and postal business interrupted. Brisbane River 18 feet above the level of 1887 flood. Flood at Gympie 47 feet above normal.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p>Flood at Gympie 47 feet (14.3) above normal. Cyclonic affects Gunala 9<sup>th</sup>/10<sup>th</sup>. The Agnes which survived the July 1889 winter cyclone foundered north of Brunswick Heads with all hands lost. 3 bodies were washed ashore on the 12<sup>th</sup> and the other 5 bodies were never found.  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p><b>March 1890</b>, TC crossed coast near Cardwell 24th and curved over Fraser Island 28th bringing disastrous floods over much of Queensland and northern NSW. At <b>South Barnard Island</b>: two men were drowned when their boat was swept away after losing its jib. The <b>house on the Island was blown</b> down and the wife of one of the men was stranded for 2 days with her 4 children. <b>Two aboriginal beche de mere fishermen were drowned. Cardwell:</b> the winds</p>

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	<p>started 7pm Sunday 23rd and were at their worst until 7am Monday 24th. <b>Only 4 houses were left standing</b>, the rest were wholly blown down, unroofed or destroyed. Two Govt. boathouses were destroyed; the jetty was wrecked, the Schoolhouse blown down, and the Courthouse almost blown away. The tide came up over the bank. <b>Dungeness:</b> (mouth of Herbert R.) The <b>sea came up high over town and all people left the town</b>. All buildings were more or less damaged with houses and shops blown down and Customs House unroofed. The schooner <b>Mary Ellen was wrecked</b> in the Herbert R. and 4 punts were wrecked. At <b>Halifax a man was killed</b> when a house blew down on him and a man was <b>drowned</b> at Victoria plantation. At <b>Ingham</b> the C. of E. was levelled to the ground. <b>Townsville:</b> a gale blew all Sunday 24th night until 9pm Monday 24th with <b>15 small houses wrecked</b> by the wind, <b>30 homes</b> blown off their blocks, 40 verandas wrecked and <b>3 or 4 houses washed away</b>. 110 people were homeless with the whole of Hermit Park under water. Heavy seas rolled over the top of the Breakwater which was <b>6 feet above high water spring tides</b>. Two boats sank in Ross Creek, the Launch <b>Eleanor</b> was lost, the ketch <b>Snowdrop</b> lost and the Customs launch sank. A <b>man</b> was washed off a cart and <b>drowned</b> and a <b>woman was killed</b> when her house caved in. <b>Burdekin: 431 mm in 24 hours</b> at Ravenswood. A <b>man drowned</b> at Sellheim, several houses disappeared, a <b>man drowned</b> at Sandy creek and a <b>rescuer drowned</b>. <b>Ayr:</b> Church razed to the ground and the Police building unroofed. <b>Mackay: man drowned</b>. <b>Emu Park:</b> Wednesday 26th 15 inches (381mm) in 12 hours and man <b>killed by lightning</b> 6.30 am Wed. Schooner <i>Matha Reid</i> de-masted and captain knocked senseless and thought to have died. <b>Darling Downs: 2 policemen missing</b> in floods near Dalby and at Roma 100 people were evacuated from floods. <b>Beaudesert: man drowned</b> in creek 28th. <b>Stanthorpe: Numerous buildings washed away, man drowned and a large number of stock lost</b>. Ref: Jeff. Callaghan Bureau of Meteorology Brisbane.  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p><b>24 March</b> Tropical Cyclone crossed coast and recurved over Fraser Island bringing disastrous floods over much of Queensland and northern NSW. Many lives lost due to floods and cyclone.  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<p><b>1892</b></p>	<p><b>2 January</b>, 1892. Brisbane suffers damage.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p><b>2 April</b>, Tropical Cyclone recurved over Brisbane with two deaths in April. Wind strength in Brisbane 70 knots. Rain recorded 4.94 inches in storm. Much damage throughout Brisbane, Tweed Heads and Redlands district.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<p><b>Jan 1893</b></p>	<p><b>21 January</b>, Tropical Cyclone recurved over Brisbane. Trees uprooted and some houses demolished. Maryborough gale force winds recorded.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>

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<p><b>Feb 1893</b></p>	<p><b>1 February</b> Tropical Cyclone crossed the coast near Yeppoon. Cyclone passes over coast. Severe floods in Ipswich and Brisbane with Indooroopilly railway bridge and Victoria bridge washed away. More than 12 deaths. The S.S. Dicky wrecked on Caloundra (now known as Dicky Beach). Tropical Cyclone then headed south. Inigo Jones of Crohamhurst, near Peachester, recorded 907mm of rain in 24 hours. A wall of water 15.2 metres high was observed to roar down the Stanley River. Unprecedented flooding in Brisbane and Maryborough. Gympie numerous houses were washed away. There were many deaths due to this cyclone.  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p><b>11 February</b> a short lived cyclone crossed the coast near Hervey Bay. Huge seas were recorded. 11 February, 1893. Small cyclone crosses near Bustard Heads causing further flooding in Brisbane. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p><b>17 February</b> Cyclone hits Bundaberg. Floods from Rockhampton to Grafton. Mary River bridge in Maryborough washed away with 120 houses. Cyclone induced tornado hits Sandgate. Flooding in Brisbane River and surrounding areas. Tropical Cyclone induced tornado in Moreton Bay levelled 20 metre wide path in forest and lifted boats out of water. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<p><b>Feb 1894</b></p>	<p>19 February Tropical Cyclone passed east of Brisbane. Storm surge .58m Moreton Bay tide gauge. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<p><b>Feb 1898</b></p>	<p>4 February flooding and major damage due to cyclone over Mackay. <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p>12 February Cyclone of monsoon origin tracked from the continent over Brisbane and down the NSW coast. The bar at sea level in Brisbane on Sunday 13 was 997.7hPa. NSW sustained 30 known deaths. Mr Inigo Jones reported flood damage to Caboolture Divisional Board at Coochin Bridge near Beerwah.</p>
<p><b>Mar 1898</b></p>	<p>Tropical Cyclone passed east of Brisbane and recurved SE. 508mm of rain recorded in 48 hours at Crohamhurst near Peachester. Gales and very high seas along the south coast of Queensland.</p>
<p><b>Jan 1906</b></p>	<p>Small tidal wave of about one metre went over Bribie Island, east to west and onto the mainland of Caboolture Shire.</p>
<p><b>March 1910</b></p>	<p>Crohamhurst River constantly in flood. Esk: River 12' over normal. Goodna: Slight fresh during month. Cedar Pocket: Creek in a continual fresh. Harrisville: Warrill Creek in flood twice.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a></p>
<p><b>Jan 1911</b></p>	<p>11 January Tropical Cyclone from Gulf through inland Queensland. Gales throughout South East Queensland. Sea baths damaged at Sandgate. Huge seas, ships unable to enter Moreton Bay.</p>

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<b>Jan 1913</b>	Tropical Cyclone crossed the coast near Bowen. Floods in Bundaberg area. Many lives lost. Shipping delayed along the Queensland coast south of Bowen due to gales and huge seas
<b>Feb 1915</b>	5 -10 February, Two men drowned in Stanley River at Woodford. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>April 1916</b>	11 April, Stanley River flooded. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>Mar 1918</b>	This cyclone is regarded was the worst cyclone to hit a populated area of Queensland. It crossed the coast and passed directly over Innisfail. It is reported that up to one hundred people in that region lost their lives.
<b>Mar 1919</b>	<b>3 March</b> Tropical Cyclone crossed the coast at Maryborough. Serious wash away of Mary Valley line. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a>
<b>Apr 1921</b>	<b>5 April</b> This tropical cyclone affected Bundaberg, Maryborough and Hervey Bay. Bathing houses were washed away. A storm surge was reported at Pialba. Also on the west coast of Fraser Island where the loco drivers house from the Forestry was isolated by sea. The railway for timber transportation on Fraser Island was swept into the sea. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a>
<b>March 1925</b>	16-18 March, The Stanley, Caboolture, Pine, Logan and Albert Rivers flooded. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>June 1925</b>	Most south coast rivers and creeks rose considerably. Flood in Stanley River. Railway line Wash away and damage to bridges and roads. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>Dec 1926</b>	16 – 31 December, Flood in Stanley River disorganized traffic between Woodford and Kilcoy. Loss of stock in Brisbane River Valley. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>Jan 1927</b>	15 – 31 January, Stanley and Upper Brisbane Rivers flooded; strong fresh only in lower reaches of Brisbane but many metropolitan suburban districts submerged. Low-lying parts of Ipswich under water. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>Feb 1927</b>	Tropical cyclone north of Cairns. Considerable damage. Flooding in the south of the state. Losses to crops and stock throughout Queensland. 47 people lost their lives.
<b>March 1927</b>	5 – 14 March, Stanley flooded and railway line damaged between Woodford and Kilcoy. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>Apr 1927</b>	1 – 2 April, Minor flooding in several south eastern rivers, chiefly the Stanley, Burnett, and Mary. Numerous bridges submerged; dislocation of traffic and damage to roads and railway

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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	<p>tracks.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>                  Severe tropical cyclone east of Gold Coast. Flash flooding and heavy seas and erosion at Coolangatta. King tides. Record high tide Gold Coast. Flooding south east Queensland.</p>
<b>Feb 1928</b>	<p>13-22 February, Floods in Stanley and Upper Brisbane very high but in metropolitan reaches of latter only moderate fresh experienced.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a></p> <p>14 February Tropical cyclone crossed the coast at Brisbane. Subsequent serious floods in Brisbane with 5 people drowned. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p>Much damage to Gold coast region and flooding South East Queensland.</p>
<b>Apr 1928</b>	<p>Tropical cyclone recurved near Mackay. Flooding and houses washed away in that region with nine people drowned...Lower parts of Brisbane and region in flood.</p>
<b>Feb 1929</b>	<p>Cyclone bar 986.61hPa at Double Island Point 8pm <b>28 February</b>. Huge seas off south east coast of Queensland. Major flooding Gold Coast.</p> <p>Above cyclone recurved towards southeast and redeveloped off the Central Coast. Bar down to 986.1hPa at Double Island Point 8pm 28<sup>th</sup>. Huge seas off the south coast. A Passenger <b>Ship was disabled and just made it into Brisbane. Seas came up into the surf club at Kirra with much sand erosion and the rocks on the point moved. Buildings and roads damaged in Coolangatta. The seas broke over the jetty at Byron Bay. Farms were flooded at Southport and 100 houses vacated at Lismore.</b>  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<b>Jan 1930</b>	<p><b>20 January</b> Cyclone action over large part of the State finally crossing at Mossman. 6 deaths due to flooding. Huge stock losses.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
	<p>2-10 February 1930, some bridges over Stanley River submerged.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a></p>
<b>Feb 1931</b>	<p>1-8 February 1931,TC entered Coral Sea near Cooktown and moved down to Hervey Bay. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a>.</p> <p>Initially serious flooding in North Queensland. Major flooding to follow South East Queensland with 1300 homes inundated. Storm surge of 0.76m on Moreton Bay tide gauge. Severe beach erosion South East Queensland.</p> <p>The subsequent flood levels above Bowen Bridge exceeded the 1893 flood levels. Severe beach erosion, Currumbin Creek mouth breached.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
	<p><b>2-8 February</b> The Nambour Chronicle February, 1931 contains stories of cyclonic weather and high tides. Caloundra was a one teacher school at the time with a small population. There was no mention of weather conditions or damage to</p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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Caloundra or Golden Beach in the Nambour Chronicle.  
 Other places on the North Coast in a story titled “Cyclonic Weather” says, “Heavy falls throughout the district, rain and wind of high velocity, floods and washaways. 9 inches of rain in 24 hours.”

Bald Knob reported 14 inches of rain in 24 hours. There are rain recordings in points. (100 points to the inch). The outstanding registrations are Yandina 1380 points, Bald Knob 1444, Bundaberg 1461, Landsborough 1185, Caboolture 1075 and Palmwoods 1047.

Stan Tutt a local historian recorded a story which he believed had connections to a New Zealand earthquake.

“Tom McBride was a well known early Caloundra identity. Tom was a tradesmen painter. In 1931, with a companion, he was painting the skeleton light towers which then stood on the northern end of Bribie Island.

One morning McBride and his companion awoke after a calm night with only light rain falling to find four to six feet of water over the northern end of Bribie Island. Only the tops of the dunes were exposed. Tom recalled seeing cows, calves and horses swimming in the waters. The animals found higher ground on Landers Camp which was further down Bribie Island. Lander’s Camp was a grazing area for Lander who was an early resident of this region. Westaways from Meridan Plains grazed their horses and cattle on Bribie Island as well. They swam the livestock over near the northern end of Bribie Island.

Kathleen McArthur writes “One revelation that came out of the news of the Australia Day floods in 1974 was in the remarks of the old timers in Caloundra, Maroochydore and Mooloolaba comparing this flooding with that of 1931. From their accounts it had been 18 inches higher (45cm) in 1931.

I had heard first hand accounts of the 1931 Caloundra and Bribie flooding from Tom McBride who was on Bribie to paint the lighthouses at the time and his wife Grace and her friend Eva Cochrane who experienced it in Caloundra. There was a 3 foot storm surge in Moreton Bay.” P. 96

Kathleen McArthur continues,  
 “It would seem from all accounts that the 1931 flooding of this coast was due to a long, slow fall in barometric pressure which raised the sea level. The record tide height, measured at the Pile Light in Moreton Bay, reached 3.14 metres.” P.96



Picture Sunshine Coast P89359

Courtesy Sunshine Coast Libraries Heritage Library Local Studies files-Tom McBride’s experience – Bribie Island – northern end tidal surge 1931

**Jan 1934**

30-31 January, Disorganization of traffic in coastal districts south from Maryborough.  
[http://www.bom.gov.au/hydro/flood/qld/fld\\_history/brisbane\\_history.shtml](http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml)

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
 Compiled by Di Warner and Amanda Wilson for Sunshine Coast Libraries - Heritage Library

<b>Feb 1934</b>	<b>1 February</b> This particular cyclone travelled from the Gulf to northern NSW causing widespread damage and flooding. There was a 1.16 metre storm surge recorded as the largest on record on the Moreton Bay tide gauge. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a>
<b>Mar 1936</b>	<b>22 March</b> Tropical cyclone recurved towards Fraser Island. Extensive erosion Gold Coast. Ships showed a very large cyclonic circulation north east of Fraser Island. Storm tide came over retaining walls Moreton Bay. Cleveland flooded some parts... <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a>
<b>Jan 1938</b>	Monday 17 large cyclone heading towards Queensland. Air and sea services disrupted. Sea comes over southern part of South Stradbroke. Waves came over retaining walls Moreton Bay. 19 January buildings washed into sea Hervey Bay. Northern New South Wales flooded. Severe beach erosion. <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a>  <b>27 March</b> , Cyclone east of Bowen. Floods from Mackay to gold Coast. Huge seas south east Queensland and torrential rains. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a> <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a>
<b>Mar 1940</b>	<b>17 March</b> , TC crossed the coast near Mackay with little damage. The bar was down to 990.5 hPa at Mackay and the lowest bar at St. Lawrence was 996.6 hPa at 5.25 am 18 <sup>th</sup> . There were floods southeast Queensland and a farmer drowned in a flooded creek at Maryvale near Warwick. Gales uprooted trees and blew them over the railway line near Grafton. <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a>
<b>1945</b>	Cyclone damage undermined the Metropolitan Caloundra Surf Life Saving Club, Kings Beach. Kings Beach and surrounding areas were badly eroded.

1946

The heavy seas accompanied by exceptionally high tides, caused an erosion of Kings Beach almost as far back as the Pavilion, causing a steep bank in front of the life savers club building. The Metropolitan Caloundra Surf Life Saving Club sustained serious erosion of its foundations and the boat shed had to be pulled back from the edge of the dune at Kings Beach. Levuka Cabins were inundated by water as a result of torrential rain. Picture Sunshine Coast P87156

Damage was caused to the Landsborough Shire Council's rock wall along Bulcock Beach. Three jetties along Bulcock Beach were damaged, many boat sheds were 20



P87021

LH80-8

Kings Beach after cyclone damage in 1945. The Metropolitan Caloundra Surf Lifesaving Club's clubhouse is pictured perched on the edge of the badly eroded dune. More cyclones in March 1951 and then again in March 1945 caused further damage to the building which was demolished and replaced by a new brick building, next to the Kings Beach Pavilion in November 1958. The man in this photograph is Mr. William Farlow who had a store at Kings Beach. C. 1945

Caloundra - Beaches - Kings Beach

**20 to 24 March**, a tropical cyclone touched the coast in the vicinity of Fraser Island, moved south along the whole length of the Sunshine Coast before moving out to sea in the area of Cape Moreton. This was a Category 2 cyclone when it passed through the Sunshine Coast. Ref: Bureau of Meteorology 2003

The heavy seas accompanied by exceptionally high tides, caused erosion of Kings Beach almost as far back as the Pavilion, causing a step back in front of the life savers club building. The Metropolitan Caloundra Surf Life Saving Club sustained serious erosion of its foundations and the boat shed had to be pulled back from the edge of the dune at Kings Beach.

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
 Compiled by Di Warner and Amanda Wilson for Sunshine Coast Libraries - Heritage Library

	<p>Damaged was caused to the Landsborough Shire Council's rock wall along Bulcock Beach. Three jetties along Bulcock Beach were damaged, many boat sheds were damaged and rowboats smashed along Bulcock Beach. At this time the fishing fleet used to anchored in the Passage.</p> <p>TC accompanied by flood rains crossed the coast near Double Island Pt and passed over Moreton Bay and just inland of Southport at 3pm 25th. <b>0.73 m storm surge recorded on Moreton Bay tide gauge (fortunately at low tide).</b></p> <p><a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<b>April 1946</b>	<p><b>4 April</b>, Passed just to the east of Fraser Island and brought heavy to flood rains to SE Qld. Ref: J. Callaghan Bureau of Meteorology Brisbane.</p> <p><a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a>  <a href="http://www.windworker.com.au/gldcyclones.htm">http://www.windworker.com.au/gldcyclones.htm</a></p>
<b>Jan 1947</b>	<p><b>23 January</b> Cyclone crossed near Caloundra with heavy gales and high seas. Flooding 2 dead. <a href="http://www.windworker.com.au/gldcyclones.htm">http://www.windworker.com.au/gldcyclones.htm</a></p> <p>TC crossed the coast near Caloundra with heavy gales and high seas. The Roof and veranda were torn from a house at Caloundra. A steel roof was torn from a 2 story block of flats at Burleigh. Many tents were destroyed at Caloundra, Southport Burleigh and Coolangatta. Waves broke into the beach pavilion at Coolangatta and flooded campers at Kirra. Navy tug <i>Woree</i> was wrecked on the Clarence River bar. For the 4 days ended 9am 26th Springbrook recorded 1392mm, with 695mm for 24 hours to 9am 25th , the highest since 1931. In the same 4 days Mt Tamborine recorded 995mm and Nerang 695mm. Tamborine was isolated by landslides. Waterford bridge washed away. <b>Record floods in SE Qld with water up to telephone wires. Two lives were lost and widespread damage occurred from floods and high winds. 0.55 m storm surge</b> on Moreton Bay tide gauge. 1200m of 3.5m seawall was washed away at Margate. Fences were torn down by the sea near McDonald Creek Margate.</p> <p><a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<b>Jan 1948</b>	<p><b>28 January</b> Cyclone passes east of Brisbane with wind gusts up to 96 knots at Lord Howe Island. <a href="http://www.windworker.com.au/gldcyclones.htm">http://www.windworker.com.au/gldcyclones.htm</a></p> <p>0.46m storm surge on tide gauge in Moreton Bay, 1.5 m surge on foreshore.</p> <p><a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<b>March 1948</b>	<p><b>24 March</b> Structural damage and erosion as cyclone passes over Fraser island. . Gales and high seas caused severe beach erosion over South Coast Beaches and local structural damage in adjacent areas. Tewantin reported the <b>worst erosion ever experienced</b>. Flooding in coastal streams.</p> <p><a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<b>June 1948</b>	<p>w pressure area formed off the Sunshine Coast with a central pressure of less than 1002hPa. This system caused gale force winds on the coast on 17 June. It then moved out to sea. Ref: Bureau of Meteorology 2003</p> <p>The Metropolitan Caloundra Surf Life Saving Club lost their boat shed during the June cyclone and nearly lost the club house... The foundations were badly eroded from the huge waves battering the building. It was saved by a hard working team of volunteers. This club house was located where the Nippers are currently located.</p> <p>Caloundra City Libraries Local Studies Unit files.</p>
<b>1949</b>	<p>TC made stuck Gladstone at 2pm on the 2<sup>nd</sup> and then passed over Rockhampton. Widespread damage in 15 towns. Two men died, one in Rockhampton and the other in Gladstone as they were blown from the roofs of their homes while making repairs. Another man was killed in Rockhampton after being struck by a falling branch. A child was killed in Bundaberg by a falling gum tree. A dairy farmer was drowned in the Biloela district and another man was drowned near Thangool. Barometer in Rockhampton dropped to <b>960 hPa</b> and the maximum wind gust on the airport</p>

Cyclone and Flood Summary -South East Queensland - 1800s – 2006  
 Compiled by Di Warner and Amanda Wilson for Sunshine Coast Libraries - Heritage Library

	<p>anemometer was <b>87 knots just after 7pm on the 2<sup>nd</sup></b>. In Rockhampton <b>1000 houses were damaged, 500 were wrecked</b>. Most of the 1500 homes in Gladstone were damaged and many buildings were extensively damaged. 12 homes were badly damaged in Yeppoon and 25 inches (635mm) of rain was recorded there in 24h, which flooded business premises. In Emu Park most of the 200 houses were damaged while the Yeppoon to Emu Park scenic road was devastated with trees littering the whole highway. Heavy seas closed the ports of Rockhampton, Gladstone, Bundaberg and Maryborough while a lightship was grounded on Breaksea Spit. There were severe floods in the Central Qld and <b>3 drovers were drowned</b>.  <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<b>Jan 1950</b>	<p><b>16-19 January</b> Tracked from the Gulf to Sydney. 7 lives lost in NSW.2 metre waves in Moreton Bay with houses evacuated at Sandgate.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p>Seawater inundation at Wynnum with damage to boats. Small tornado at Hendra on the 18<sup>th</sup> unroofed house and move house next door off stumps. <b>Postman electrocuted by fallen</b> power line at Ipswich on the 18<sup>th</sup>. <b>A man was killed</b> in car accident in blinding rain at the Gabba. <b>A boy drowned</b> in the flooded Bremer River on the 20<sup>th</sup>. <b>3 horsemen were drowned on the 18<sup>th</sup> when Washpool Creek</b> (80 km from Grafton) rose rapidly. Another <b>4 lives lost in NSW from cyclone including girl swept by storm surge and waves off Esplanade at Cronulla, a boy electrocuted by fallen power lines at Gordon in Sydney, a man drowned near Goulburn and another man drowned in the Macleay River at Kempsey. Seven yachts completely wrecked in Sydney Harbour. Record pressure reading of 988 hPa in Sydney. 10 lives lost in total.</b> <a href="http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<b>Feb 1950</b>	<p><b>27-28 February</b> TC Crossed over Gladstone to Hervey Bay. Floods down to Brisbane.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>Nov 1950</b>	<p><b>16 November</b> Tropical low crosses near Brisbane causing structural damage and one death. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>1951</b>	<p><b>25-31 January</b>, cyclone moved across Queensland and crossed at Tewantin on 26 January, moved out to sea before looping around and re-crossing the coast over Fraser Island on 29 January. Severe flooding occurred along the coast with one life lost at Currimundi Lake. This was a Category 1 Cyclone.                  Many houses were evacuated particularly in the Maroochy river districts where flooding was severe.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>1951</b>	<p><b>18-19 March</b> cyclonic weather caused strong winds which wrecked many boats and damaged properties on the Sunshine Coast. TC crossed the coast near Maryborough.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>1952</b>	<p>A freak /tornado struck Caloundra during the beginning of <b>April</b>. The severe wind storm lifted roofing and carried it into the air for some distance, in a confined narrow strip. Damage occurred to the Post Office in Canberra Terrace (Hog's Breath Restaurant in 2006) across to the Bowling Green, where great damage was sustained and off towards Buderim.</p>

<p><b>Feb 1954</b></p>	<p><b>20 February</b>, cyclone crosses at Coolangatta. Widespread structural damage from Sunshine Coast to Gold Coast. Boats left in treetops at Beachmere. Waves at Kirra put 2 metres of water on the highway picking up cars. 900 mm rainfall recorded in 24 hours. 26 people dead.  <a href="http://www.windworker.com.au/gldcyclones.htm">http://www.windworker.com.au/gldcyclones.htm</a></p>
<p><b>1954</b></p>	<p><b>19 – 21 February</b> an un-named cyclone caused enormous damage on the Sunshine Coast. The cyclone hit Caloundra on 20 – 21 February. Wind gusts were recorded higher than those of the great 1893 flood/cyclone. Tom Maloney's boat, the Waterhen, sank at it's moorings on Moloney's Jetty off Tay Avenue.</p> <p>Many buildings in Caloundra sustained great damage including the Hotel Francis located at Shelly Beach which lost its roof and verandas. Debris was picked up at the Hotel Francis and located nearly half kilometre away.                  The Kings Beach area also sustained extensive damage to trees and buildings.</p> <p>The Esplanade Bulcock Beach</p>  <p style="text-align: center;">P89373 <span style="float: right;">LH25-24</span></p> <p>Kings Beach, Caloundra taken in the area of Merrima Avenue, where the Landsborough Shire Council drained a natural swamp / lake in approximately 1950. The washout was caused by the draining of the swamp, a box drain was built through the dune and this washed out due to the force of the water build up in the swamp behind causing this erosion problem. C. 1950</p> <p style="text-align: right;">Caloundra - Beaches - Kings Beach</p> <p>The Church of Christ Youth Centre located at North Caloundra was completely flattened.                  The eye of the cyclone went right over Queensland Forestry Department Headquarters at Beerwah. 20 February Allan Gardiner Forestry worker at Beerwah recorded 28 inches of rain during this time.                  Tropical Cyclone crossed the coast at Coolangatta with a reading in the eye of 973hPa.                  Some reports from the Coolangatta region had pressure readings 962 hPa.</p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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	<p>Widespread damage Gold Coast, Northern NSW, Sunshine Coast and Brisbane. 0.64 storm surge Moreton Bay gauge – foreshore damage extensive with boats in the tree tops at Beachmere. Waves at Kirra 2 metres onto main road picking up cars.                  26 people lost their lives from these unprecedented effects.</p>
<p><b>July 1954</b></p>	<p>14 July Cyclone caused damage in the Caloundra area with damage to the lighthouse noted in the lighthouse log.</p> <p>Courier Mail's report 15 July, 1954 'Caloundra hit by howling wind'</p> <p>'The town's 4,000 people spent a night of terror as 75mph hurricane, with lashing torrential rain, battered many homes to pieces.</p> <div> </div> <p>Picture Sunshine Coast Bridge washout - Bulcock Beach area</p> <p>Caloundra Police said last night that an 'eerie, howling roar' broke over the town at 3pm on Monday. That was the beginning of 21 hours of bedlam for Caloundra. Police patrols picked their way through dozens of ruined homes but reported no casualties.</p> <p>Dozens of electricians were working desperately to repair hundreds of power lines torn down throughout the township. Power is unlikely to be restored for two or three days.</p> <p>Some 20 foot launches and dozens of dinghies had been picked up by terrific wind gusts and hurled 40 yards back from the beach. Roofing iron had been swirled through the air and wrapped around telephone poles like cardboard. Windows were shattered in nearly every home.'</p> <p>Courier Mail 15/0754</p> <p>Boat Shed destroyed – Bulcock Beach                  Courtesy of Local Studies Unit</p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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<b>Mar 1955</b>	<p>On <b>7 March</b> cyclone developed off Mackay coast with eye passing over Sarina. Widespread damage and serious flooding in that region. High winds Force 12.  <a href="http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf">http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf</a></p> <p><b>27 March</b> a cyclone crossed the coast near Bundaberg causing structural damage. Considerable damage reported in the township of Yandina. A record flood occurred in the Mary River region. One death. Serious flooding in the Pine and Maroochy Rivers. Flood heights in the Brisbane region were recorded as being the highest since 1931.  <a href="http://www.windworker.com.au/gldcyclones.htm">http://www.windworker.com.au/gldcyclones.htm</a>  <a href="http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf">http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf</a></p>
<b>Jan 1959</b>	<p><b>21 January. Tropical Cyclone Beatrice</b> crossed the NSW coast near Lismore. Severe beach erosion South East Queensland. Damage reported at Coolum. Steamer 'Natone' founded off Double Island Point.  <a href="http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf">http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf</a></p>
<b>May 1960</b>	<p>Flash flooding in the upper Stanley region. 125 – 150mm in 48 hours.</p>
<b>Nov 1961</b>	<p><b>17 November</b> intense heavy rain caused flash floods and destruction of roads and bridges in northern areas of Brisbane. The worst hit areas Mt. Gravatt and Sandgate.</p>
<b>1963</b>	<p><b>Tropical Cyclone Annie</b> crossed the Sunshine Coast at Tewantin and moved inland at 2 am on <b>1 January</b>. This cyclone developed rapidly. The cyclone hit Caloundra whilst people were still out enjoying New Years Eve celebrations. Houses were unroofed at Buderim, Landsborough, Mt Mellum, Flaxton and Maleny.  <a href="http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf">http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf</a></p> <p>The banana industry was considerably damaged on the Sunshine Coast. Power was cut by fallen trees in many areas. Campers had belongings scattered and damaged.</p> <p>Media reports about this cyclone did not go to air till the Cyclone Annie had hit the coast. Two people were killed due to the cyclone. Cyclone Annie was a Category 2. Luckily this cyclone crossed at low tide as the Moreton Bay tide gauge indicated a 0.76m storm surge. Bridges and roads were submerged throughout the coast.</p> <p>From <b>13 – 18 March</b> heavy rain in the South East Queensland areas were reported. Local flooding. The Stanley River at Peachester reported peak flows as did the Brisbane River.</p>
<b>Apr 1963</b>	<p><b>24 April</b> Tropical Cyclone stayed more than 500 km off coast however the system generated huge swells which resulted in beach erosion. 13 metre waves were reported. Winds brought down power lines off Sunshine Coast. Two deaths were reported at Hervey Bay. <a href="http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf">http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf</a></p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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<b>30 Jan 1965</b>	<b>Tropical Cyclone Judy</b> came from Gulf through to the Coral Sea near Innisfail. Caused damage in North Queensland. Cyclone moved down the coast off South East Queensland and large swells caused severe beach erosion.
<b>July 1965</b>	High winds in Brisbane with flooding and heavy rain. 24 hours rainfall 621 mm.
<b>Jan 1967</b>	<b>Tropical Cyclone Dinah</b> caused severe damage at Heron Island on <b>28 January</b> . It recurved and passed over Sandy Cape which recorded a central pressure of 944.8 hPa and high water 10 metres above normal. Although well off the coast trees were blown down from Rockhampton to Grafton. Houses were unroofed along the Sunshine Coast. Storm surge inundated cane farms in Bli Bli area. Hastings Street Noosa Heads was knee deep with flood waters. Sandgate had flood waters reaching 1.5 metres in coastal homes. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a> <a href="http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf">http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf</a>
<b>Mar/Apr 1967</b>	On <b>18 March</b> falls up to 150mm associated with Tropical Cyclone Elaine were recorded in the South East Queensland corner of the State. Tropical Cyclone Elaine had developed east of Cairns. Hinchinbrook Shire estimated damage to bridges and roads alone at about 7.5million. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a> + <b>2- 4 April</b> Tropical Cyclone Glenda moved south 500km east of Brisbane. Gold Coast beaches completely eroded. 6 men lost their lives in separate boating accidents in waves 16 metres off the South Queensland coast. <a href="http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf">http://www.australiansevereweather.com/cycloness/impacts-eastcoast.pdf</a>
<b>Jun 1967</b>	Flooding in Brisbane estimated damage in excess of 1 million. Traffic at a standstill; rail halted on some suburban lines. Rainfalls averaging 200 to 250mm in the South Coast Moreton region during the week ending 14 resulted in moderate flooding Brisbane, Mary and adjacent costal streams. The Mary River peaked on 11, the highest since 1963. Two fatalities. Culminating event in 1967- winds to hurricane force at Cape Moreton- Unprecedented beach erosion on the Gold Coast with houses and sections of roads lost to the sea. 5000 volunteers dumped 100,000 sandbags to prevent houses washing into the sea. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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<p><b>Jan 1968</b></p>	<p>Seven day totals of 750mm in the headwaters of the Mary River, while slightly lower totals were recorded in the headwaters of neighbouring coastal streams and in the headwaters of the Stanley River. The Mary River peaked at Gympie on 10, and all coastal roads from Brisbane to the north of Bundaberg were impassable to traffic for a few days as the flood moved downstream. One life lost in Gympie region. Many evacuations in that region. Minor flooding in coastal streams south of Brisbane.</p>
<p><b>1971</b></p>	<p><b>17 February</b> Tropical Cyclone Dora crossed the coast north of Brisbane. There was fairly widespread structural damage at Redcliffe with roofs of houses. Trees and powerlines down. Some flooding with traffic disabilities.</p> <p><b>24 December, Cyclone Althea</b>, devastated Townsville                  Ref: Bureau of Meteorology 2003.</p>
<p><b>Feb 1972</b></p>	<p><b>7 February Cyclone Wendy</b> battered the Sunshine Coast and then <b>11 &amp; 12<sup>th</sup> February Cyclone Daisy</b> raged. Large sand dune loss on Kawana beaches which was mostly replaced when the second cyclone came through a week later. During the second and third weeks of the month, major flooding occurred in the upper and middle reaches of the Mary River, upper Brisbane and Stanley Rivers in association with heavy rainfall from <b>Cyclone Daisy</b>. Flooding with traffic disruptions occurred on Sunshine Coast. Hit Fraser Island. Over 200 homes damaged at Pialba and other areas. Severe flooding to the Gold Coast where a peak swell height was recorded at 8.3 metres. Severe local flooding occurred in Brisbane City creeks on the morning of the 12, following general falls of 175mm to 225mm in 24 hour period.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<p><b>Apr 1972</b></p>	<p>During the first week of the month heavy rains in south-east Queensland, associated with Cyclone "Emily", caused moderate flooding in the Mary, Stanley and upper Brisbane rivers. Flooding also occurred in the Kolan and Curtis Coast streams, the Burnett, Albert, Logan, Nerang and Pine rivers, and Sunshine Coast streams. There were widespread traffic disruptions in the above catchments as Easter holiday traffic returned to Brisbane. On the night of Sunday 2nd to Monday 3rd, heavy rain in Brisbane City metropolitan creek catchments caused major flooding in suburban areas, resulting in much damage to property and household furniture.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a></p>
<p><b>July 1973</b></p>	<p>During the period <b>6th to 10th</b>, heavy rain in south-east Queensland caused moderate to major flooding to the coastal strip between Brisbane and Bundaberg. <b>Several lives were lost.</b> Minor flooding occurred in the Brisbane City metropolitan creeks, in particular Enoggera-Breakfast creeks and Kedron Brook, and also in the Nerang River. Major flooding also occurred in the upper Brisbane River and Stanley River, but flooding was not significant in the lower reaches.                  Vessel Cherry Venture driven ashore in hurricane force winds. 24 hour rainfall totals 378mm on Sunshine Coast.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a></p>

**Jan 1974**

**25-29 January**, Brisbane: The Brisbane River also reached the highest level this century and the highest level since 1893. Similarly to Ipswich, the lower flood prone areas suffered extreme damage; **14 lives were lost, some 8,000 householders were affected**, many totally destroyed, others damaged to the tune of thousands of dollars as a result of inundation and battering from both strong currents and water borne debris. Business houses and industry generally suffered countless millions of dollars in losses due to damage to premises, stock and loss of business. Estimated damage approximately \$200 million in 1974 money values.

[http://www.bom.gov.au/hydro/flood/qld/fld\\_history/brisbane\\_history.shtml](http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml)

**1974**

Tropical **Cyclone Wanda** was a weak cyclone when it crossed the coast at Maryborough. The winds were strongest in the night after landfall when a high strengthened in the Tasman Sea. Tewantin and Caloundra then had an average 50 knot easterlies and Cape Moreton had average 56 knot easterlies. Torrential rain followed.

1931 flood was exceeded in Brisbane at 9am 27 January.

In Brisbane and Ipswich 6007 homes were flooded.

Damage was in excess of 200 million dollars.

The maximum storm surge associated with Wanda was 1.0 m between Noosa and Double Island Point.

Heavy swells along the Sunshine Coast caused severe beach erosion.



Top Image 1954 Cyclone damage to Clarke's Ice works near Bulcock Beach-  
Picture Sunshine Coast P89549

	 <p>Flooding behind Levuka Cabins at Kings Beach during cyclonic weather in 1946. - Picture Sunshine Coast P87156</p>
<p><b>Feb 1974</b></p>	<p>Tropical <b>Cyclone Pam</b> was a large intense cyclone that passed 500 km to the east of Brisbane. However a 0.68m storm surge was recorded on the Moreton Bay gauge and combined with a king tide, the high tide of 7 February reached 3.13 m (a record). Flooding occurred in Brisbane and the coastal areas of the Sunshine Coast were severely eroded due to earlier cyclones and this amplified the effects.</p>
<p><b>1976</b></p>	<p><b>Cyclone David</b> crossed to the north of St Lawrence. It passed over Gannet Cay AWS where a central pressure of 970 hPa was recorded. It was intensifying right up to the time of landfall. A feature was its huge size with gales extending from PNG waters down to Lord Howe Is. It generated huge swells and these combined with large tides caused extensive damage to Heron Island as it passed to the north. It crossed the coast in a sparsely populated area however winds unroofed 30 buildings in Yeppoon and several in Mt Morgan. Wind gusts reached 95 knots at Pine Islet and 84 knots at the Gladstone Met Office. Large seas combined with high tides caused considerable damage to breakwaters, retaining walls and other structures especially at Rosslyn Bay Harbour (Yeppoon) where the Breakwater was destroyed along with yachts and trawlers. Storm tides flooded houses and shops at Urangan, Noosa and Kirra. Storm surge at Beachmere on Moreton Bay cut all roads into the town. The Port of Brisbane was closed. At wave recording stations the significant wave (peak) height reached 5.8 m (8.9 m) at Double Island Pt and 3.8 m (8.7 m) at Yeppoon. Tides were up to one metre above predicted levels.  <a href="http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p>Cyclone David <b>19 January Cyclone David</b> crossed to the north of St. Lawrence. It recurved under Fraser Island. Storm tides flooded Noosa. Hastings Street, Noosa was two feet under water. The Port of Brisbane was closed. Beaches along the Sunshine Coast badly eroded.</p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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	<p>Between <b>20th and 23rd</b>, stream rises and some flooding occurred in the south-east quarter, including the Brisbane and Mary rivers, from heavy rain associated with <b>Cyclone David</b>. Laidley Creek recorded a major flood in this period with flood waters entering the town of Laidley.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a></p> <p>See video held by Caloundra City Libraries 'Noosa footage.'</p> <p><b>22 Feb 1976 Cyclone Beth</b> crossed the coast near and to the north of Bundaberg. The cyclone was very asymmetric with a band of hurricane force winds on the southern flank where it interacted with an intensifying high to the south. Widespread damage occurred in the Maryborough Bundaberg area with <b>200 homes unroofed, two aircraft damaged and rainfall up to 200 mm caused flash flooding</b> and cut roads for 18 hours. Heavy swell pounded the south coast and The wave recording station at Double Island Pt. recorded a significant wave (peak) height of <b>5.4 m (10.0 m)</b>.  <a href="http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>
<p><b>1976</b></p>	<p><b>4 March, CYCLONE COLIN.</b> Generated huge waves along south Queensland beaches after moving south from Fraser Island to southern NSW where waves were recorded off Sydney Heads at 12 metres in height. Several launches were sunk or destroyed when 2 metre waves entered Botany Bay.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<p><b>1976</b></p>	<p><b>5-6 March, CYCLONE DAWN.</b> Crossed at Fraser Island causing some damage and coastal flooding. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a>.</p> <p>By far the greatest impact was from the large waves it generated and extensive beach erosion occurred along South Queensland Beaches.</p>
<p><b>1980</b></p>	<p><b>7-8 January, CYCLONE PAUL.</b> Near St Lawrence causing record floods around Bowen. Wave peaks recorded at Brisbane station at 9.8 metres.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p><b>12-14 Feb, Cyclone Ruth</b> remained over the ocean between Australia and New Caledonia. The highest astronomical tides for 10 yr combined with large NE swells caused damage at Heron Is. The big tides and heavy swells caused extensive foreshore erosion along the Gold and Sunshine Coasts. The Brisbane wave recording station recorded significant (peak) wave heights of <b>4.0m (6.3m)</b>  <a href="http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p><b>24 February, CYCLONE SIMON.</b> Passed near Fraser Island with wind gusts over 100 knots. Structural damage at Hervey Bay. Wave peaks recorded at 8.9 metres. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<p><b>1981</b></p>	<p><b>15 February, CYCLONE CLIFF.</b> Crossed over Fraser Island to Bundaberg. Flooding to Gold Coast. <i>Cliff</i> crossed Fraser Island and made landfall near Bundaberg. Sugar cane crops were damaged around Bundaberg and several houses were damaged further south.  <a href="http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a></p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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	<b>21/22 May.</b> Three fatalities. Affected most of the east coast with floods and wind damage. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a>
<b>Jan 1982</b>	Widespread moderate to heavy rainfall in the Moreton South Coast district caused local flooding in the Brisbane City metropolitan area on <b>21st</b> . Minor to moderate flooding occurred in the Mary River from <b>21st to 25th</b> , the coastal streams from Brisbane to Noosa on 21st, the Bremer and Warrill creeks on <b>21st and 22nd</b> and the Stanley River and upper Brisbane River from <b>21st to 23rd</b> . . <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>1983</b>	<b>20/23 June 1983.</b> Two fatalities. Floods-24 hour rain totals to 350 mm in 24h at Nambour Including 229mm in 4hours. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a>
<b>April 1984</b>	<b>7-9 April, CYCLONE LANCE.</b> Gold Coast suffered wind and rain damage to homes and high rise buildings. Peak wave heights at Brisbane station recorded at 8.8 metres. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a> Stream rises and local flooding were reported from Brisbane metropolitan area and the Macintyre and Dumaresq river systems on <b>8<sup>th</sup></b> due to heavy rainfall in the southeast corner. Gale force winds and heavy rainfall on 8th caused widespread electrical failures, local flooding and traffic disabilities and property damage in the Brisbane metropolitan area and the Gold Coast. Twelve people were rescued from disabled yachts in Moreton Bay and coastal waters of the Moreton Coast. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>
<b>Dec 1988</b>	Four fatalities. Severe flooding Gladstone and 4 fatalities SE Qld. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a>
<b>April 1989</b>	<i>Aivu</i> crossed the coast with a <b>radar eye diameter 30 km</b> of near Ayr. Just before landfall the diameter was 22 km. A pressure of <b>959 hPa</b> was read in the eye at Fredericksfield which is 20 km inland from the coast. Insurance pay out (1990 \$) for Buildings cars boats etc were \$26 million. Total damage was about <b>\$40 (1990) million</b> . Agricultural damage was also around <b>\$40 million</b> and infrastructure losses were about <b>\$10 million</b> . Wind destroyed some houses however mostly it caused loss of roofing iron or awnings etc. A <b>3 metre storm surge</b> destroyed numerous beachfront properties in Upstart Bay and <b>drowned one man. Major flooding</b> occurred in the Pioneer and Proserpine Rivers. As <i>Aivu</i> approached the coast during 2 April flood rains affected SE Qld and NE NSW. Seven people were lost presumed drowned (Two in Brisbane, Two in the Gold Coast Hinterland and three in NE NSW). <a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a> <a href="http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf">http://www.australiasevereweather.com/cyclones/impacts-eastcoast.pdf</a>  During the first few days of the month, the Albert and Logan rivers experienced moderate flooding, and local to minor flooding occurred in creeks in the greater Brisbane area during the same period. A renewed heavy rain period commenced in southeast Queensland on 25th causing major flooding to re-occur at Gympie on the Mary River, and in the upper Brisbane River, the Albert and Logan rivers to the south of Brisbane and other coastal streams between Maryborough and the New South Wales border. Severe local flooding also occurred in the Brisbane metropolitan area overnight on Tuesday 25th. <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a>

<p><b>Feb 1990</b></p>	<p>3 February, <b>CYCLONE NANCY</b>. Crossed near Byron Bay in NSW. 73 knot winds recorded near Brisbane. Flash flooding in Queensland and NSW caused 4 deaths and costs reached \$36 million.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p>Moderate to heavy rainfall in the <b>Metropolitan /Sunshine Coast</b> area on the 24th produced flooding in low lying areas of Brisbane and parts of the southern Sunshine Coast. Flooding became more extensive the next day, causing traffic disabilities.</p> <p>Minor flooding on the 25th in the <b>Mary River</b> above Gympie , easing the next day  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p>
<p><b>1991</b></p>	<p>April to November No significant flooding occurred in Queensland.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p>
<p><b>Dec 1991</b></p>	<p>Moderate to heavy rainfall in the <b>Metropolitan /Sunshine Coast</b> area on the <b>24th</b> produced flooding in low lying areas of Brisbane and parts of the southern Sunshine Coast. Flooding became more extensive the next day , causing traffic disabilities</p> <p>Severe flooding of some coastal streams occurred in South East Queensland from Thursday 12th to Saturday 14th. Areas of major flooding along the Bremer River, Bundamba and Warrill Creeks caused significant property loss and damage. In the Bundamba Creek area, forty two people were rescued from flooded homes. Minor to moderate flooding occurred in the <b>Logan and Mary</b> rivers but no significant damage was reported.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p>
<p><b>1992</b></p>	<p><b>13 January, CYCLONE BETSY</b>. Passed seaward of Fraser Island. Caused beach erosion. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p><i>Betsy</i> passed 450 km seawards of Fraser Island but being an exceptionally large cyclone generated very large swells which caused severe beach erosion particularly at Noosa where all sand has been washed away. Forty people were rescued at the normally safe beach at Noosa. A yacht off Fraser Island had to be rescued by the coastguard. <a href="http://www.australiansevereweather.com/cyclones/impacts-eastcoast.pdf">http://www.australiansevereweather.com/cyclones/impacts-eastcoast.pdf</a></p> <p>The heavy rainfalls continued February 1992, The heavy rainfalls continued in the <b>Mary</b> system and along the Sunshine Coast for the next 36 Hours and resulted in major flooding of urban areas and extensive flooding of rural areas. Rainfall totals in the 48 hours to 0900 on Saturday 22nd ranged from 150mm in the lower reaches of the system to over 700mm in the upper reaches above Gympie. A major flood peak of 21.44 metres at Gympie on Saturday night 22nd resulted in extensive inundation of the commercial area of the city and flood damages estimated at several million dollars. Further downstream at Maryborough, the river reached a major flood peak of 9.50 metres on Monday afternoon. Over 100 commercial and residential premises were inundated by floodwaters.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p> <p>Record rainfalls ranging from 300mm to over 700 mm along the Sunshine Coast in the 24 hours to 0900 on Saturday 22nd resulted in major flooding along the <b>Noosa, Maroochy and Mooloolah</b> rivers with several hundred premises being inundated. Major</p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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	<p>flooding in the upper reaches of the <b>Stanley River</b> occurred during Saturday 22nd and one motorist was drowned attempting to drive across a flooded river crossing.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/flid_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/flid_history/floodsum_1990.shtml</a>  <a href="http://www.bom.gov.au/hydro/flood/qld/flid_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/flid_history/brisbane_history.shtml</a></p>
<b>Feb 1992</b>	<p>One fatality. Major flooding and Flash flooding Hervey Bay and Sunshine Coast.732mm of rain in 24h at Tewantin.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/flid_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/flid_reports/Gold_Coast_Meteorology_June_2005.pdf</a></p>
<b>March 1992</b>	<p>March, Moderate flooding occurred in the upper reaches of the <b>Mary River</b> with Gympie peaking at 16.1 metres at 1300 on <b>17th</b>. This caused disruptions to traffic, rail and air services. No significant flood damage was reported. Downstream of Gympie major flooding occurred in the Tiaro area but Maryborough peaked at 6.65 metres at 1330 on 18th causing only minor flooding.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/flid_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/flid_history/floodsum_1990.shtml</a></p> <p>Major flooding occurred in the upper reaches of the Brisbane and Stanley rivers. No reports of damage were received. Minor flooding occurred in some of the Brisbane Metropolitan Creeks causing minor traffic problems.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/flid_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/flid_history/brisbane_history.shtml</a></p>
<b>1993</b>	<p><b>17 March, CYCLONE ROGER.</b> Passed close to Fraser Island before moving back to sea and south towards NSW. Sunshine Coast sustained damage while winds and seas closed the Port of Brisbane. Brisbane station recorded waves at 13.2 meters. <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>1994</b>	<p>On the afternoon of January 19th, very heavy rainfall was recorded over a few hours in the Brisbane area and also on the Gold Coast. This resulted in localised flash flooding but minor flood levels on <b>Brisbane Creeks</b> were not exceeded.</p> <p>At the end of January, tropical <b>Cyclone "Sarah"</b> dumped very heavy rainfall, up to 500mm in 12 to 18 hours at some locations, in the <b>Johnstone, Tully and Herbert</b> rivers. As a consequence, some of the major flood levels reached in these catchments were the highest in 6 to 8 years. The flooding caused widespread traffic problems and significant damage to crops adjacent to watercourses.</p> <p>Because of the relative significance of this event, a report, "<i>Coastal River Floods, Northern Queensland, February 1994</i>", was compiled and issued to local governments and FWCC members.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/flid_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/flid_history/floodsum_1990.shtml</a></p> <p><b>20 January, CYCLONE REWA.</b> Stayed 100km off the coast but caused flash flooding around Brisbane which resulted in 4 deaths.</p> <p><a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>Feb 1995</b>	<p>Rainfall around the Sunshine Coast during the middle of February caused moderate flooding in the Mary and Upper Stanley rivers to <b>17th</b>.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/flid_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/flid_history/brisbane_history.shtml</a></p>
<b>1996</b>	<p>The influence of tropical <b>Cyclone Barry</b> which developed in the Gulf of Carpentaria in early January spread from the Gulf to the south east corner of Queensland and produced widespread rainfall and flooding. Flood warnings were issued for the <b>Gulf, Thomson, Barcoo, Warrego, Dawson, Burnett, Mary, Condamine, Balonne, Weir, Macintyre and Moonie</b> rivers.</p> <p>During the <b>9th and 10th</b>, a line of storms moved down the Queensland coastline and produced very heavy rainfall of up to 240mm in around 6 hours in the <b>Burnett, Burrum and Mary</b> Rivers. This resulted in some localised major flooding in the lower Mary and</p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
 Compiled by Di Warner and Amanda Wilson for Sunshine Coast Libraries - Heritage Library

	<p>Burnett Rivers but on the whole, only minor to moderate flooding was reported with little reported damage. The <b>Dawson River</b> experienced major flooding during the middle of the month but no significant flooding was reported downstream on the Fitzroy River.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p>
<p><b>1996</b></p>	<p>May was dominated by widespread flooding in the south east of the state during the first two weeks. The flooding which affected most areas from the Sunshine Coast to the NSW border and as far inland as Dalby was the most severe flooding since the devastating floods of <b>January 1974</b>.</p> <p><b>Brisbane River Basin:</b> Heavy rainfalls and flooding were reported throughout the Brisbane catchment during the first week of May with widespread 7 day rainfall totals of up to 600mm. A tidal surge caused by the low pressure system and gale force winds caused higher than normal tides in the Brisbane River which also contributed to flooding in low lying areas.</p> <p>During this event, inflow from the Stanley River and tributaries caused the storage level in Somerset Dam to rise from about 54% to just over Full Supply Level. Moderate flooding in the Upper Brisbane River caused the storage level in Wivenhoe Dam to rise from 57% to nearly 90%of Full Supply Level. During this flood event there were no releases from Wivenhoe Dam or Somerset Dam.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p>
<p><b>1998</b></p>	<p><b>26 March, 1998. CYCLONE YALI.</b> Passed seawards off Brisbane heading south. Wind gusts of 54 knots and peak wave height recorded at 11.5 metres. Beach erosion from Sunshine Coast to Northern NSW.  <a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p> <p><b>September, Mary River:</b> An initial flood warning was issued on the <b>11th</b> for the Mary River to Gympie following heavy rainfall in the upper catchment. The warning was finalised on the <b>12th</b> with the main flood waters nearing a peak just below minor flood level at Gympie and with all upstream water levels falling.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p>
<p><b>Feb 1999</b></p>	<p><b>8/10 February 1999.</b> Seven fatalities. Major flash flooding Brisbane and the Sunshine Coast.                  AWS gusts to 63 knots 24 hour rainfall to 404mm at Maleny.  <a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a></p> <p><b>Maroochy River:</b> On <b>1st</b>, following heavy rainfall on the Sunshine Coast and adjacent hinterland, moderate flooding occurred in the headwater streams in the Nambour-Yandina-Eumundi areas with minor flooding experienced in the Maroochy River and tributary creeks. Further heavy rainfall on the 8th resulted in widespread minor flooding on the Sunshine Coast with moderate to major flooding in the North and South Maroochy Rivers and Yandina Creek and minor flooding in the Noosa River.</p> <p><b>Mary River:</b> Heavy rainfall in the upper reaches of Six Mile Creek on the <b>2nd</b> caused moderate flooding at Cooran with minor flooding occurring downstream from Dagon Pocket to Gympie. Renewed heavy rainfall on the 8th resulted in rapid rises with moderate to major flooding in most streams from Kenilworth to Gympie, with a peak of 21.95 metres reached at Gympie on the morning of the 10th causing major flooding. This was the highest flood since January 1898. Moderate to major flooding extended down to Maryborough with a peak of 8.75 metres reached on the morning of the 12th causing moderate flooding.</p> <p><b>Brisbane River:</b> Significant river rises in the Stanley and Brisbane rivers and tributaries above Wivenhoe Dam resulted from heavy rainfall on <b>8th</b>. Moderate flooding developed in the Stanley River and major flooding in the Brisbane River above Wivenhoe Dam. Releases from Wivenhoe Dam commenced on the 9th causing closures of low level crossings along the Brisbane River downstream of Wivenhoe Dam, with minor flooding between Wivenhoe Dam and Mount Crosby. The same rainfall system caused rapid rises with moderate flooding in</p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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	<p>Lockyer Creek, Warrill Creek and the Bremer River. The Bremer River at Ipswich peaked just below the minor flood height on the evening of the <b>9<sup>th</sup></b>.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p> <p><b>March 1999, Mary River</b> : Minor to moderate flooding initially occurred in Six Mile Creek and the Mary River upstream of Gympie, following heavy overnight rainfalls of up to 140mm in the upper Mary catchment. River levels reached a peak of 11.40 metres at Gympie on the 3rd causing minor flooding. Minor to moderate flooding extended downstream of Gympie to Tiaro but no significant flooding occurred in Maryborough.</p> <p><b>May 1999</b>, Two periods of heavy rainfall in south east Queensland resulted in preliminary flood warnings being issued for the coastal rivers and streams between the Sunshine Coast and the Gold Coast on the 10th and 11th , and for the coastal rivers and streams between Maryborough and Brisbane on the 19th and 20th .</p> <p>In the <b>Mary River</b> and the <b>Maroochy River</b> catchments, river rises to minor flood level occurred between the 10th and 12th and specific flood warnings were also issued for the Mary River upstream of Gympie. River levels peaked at Gympie well below the moderate flood level.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/floodsum_1990.shtml</a></p>
<b>Oct 2000</b>	<p><b>30/31 October</b>, Two fatalities. Flash Flooding between Mackay and Brisbane with two fatalities.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a></p>
<b>March 2001</b>	<p><b>31 January/2 February 2001</b>. One fatality. Storm force winds Cape Moreton and gales at Toowoomba 24 hour rainfall totals to 385mm at Springbrook.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a></p> <p>On the afternoon of <b>9 March 2001</b>, very heavy rainfall caused flash flooding from the Gold Coast to the Sunshine Coast with reports of 200 to 300 mm in a 2 to 3 hour period. Heaviest rainfalls were reported in the Beenleigh-Logan area and the southern suburbs of Brisbane where severe local flooding occurred, causing major traffic disruptions and damage to cars and houses. Worst affected creeks in Brisbane included Norman Creek, Bulimba Creek, Stable Swamp Creek and their tributaries. About 300 properties were flooded and there was one death; a passenger in a vehicle swept from a road at Lawnton.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml">http://www.bom.gov.au/hydro/flood/qld/fld_history/brisbane_history.shtml</a></p> <p><b>4-7 July 2001</b>. Seven fatalities in long period waves from severe low well offshore.</p> <p><a href="http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf">http://www.bom.gov.au/hydro/flood/qld/fld_reports/Gold_Coast_Meteorology_June_2005.pdf</a></p>
<b>2003</b>	<p><b>Cyclone BENI 2 - 5 February</b>. Beni caused floods from Rockhampton to the Gold Coast causing \$10M worth of damage to public infrastructure. Waves were recorded to 8.5metres.</p> <p><a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>2004</b>	<p>Hybrid Cyclone <b>5 March</b>. Waves to 14.2metres recorded off Stradbroke Island. Severe flooding from Sunshine Coast through Brisbane to Gold Coast.</p> <p><a href="http://www.windworker.com.au/qldcyclones.htm">http://www.windworker.com.au/qldcyclones.htm</a></p>
<b>2006</b>	<p><b>November 15</b>, Emergency authorities are evacuating properties on the <b>Sunshine Coast</b> because of a large fire burning near <b>Caloundra</b>. The blaze, fanned by strong westerly winds, created huge clouds of smoke, as it moved towards Moffat Beach.</p>

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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	<p>The blaze started near Bell's Creek Road, west of Caloundra and spread through scrub and forests to Pelican Waters and Golden Beach. Houses in the Blacksland Road area were being evacuated. Children and staff at Pelican Waters Primary School were also evacuated shortly after 3 pm.</p>
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**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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**Maleny Weather Enquiry**

**Courtesy: Pat Stacey**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
1893	591.6	2733.0	490.7	157.4	92.7	461.2	129.2	179.0	19.5	96.0	74.7	96.8	5121.8
1894	566.7	112.0	663.2	330.2	50.0	99.3	2.0	40.9	104.6	122.2	104.6	228.9	2424.6
1895	839.4	114.0	167.6	185.9	75.7	6.6	13.5	17.8	70.4	27.9	100.3	234.9	1854.0
1896	248.9	955.5	146.3	54.6	48.0	23.4	80.5	11.4	21.1	33.5	445.8	180.8	2249.8
1897	212.6	173.0	185.0	9.1	30.0	153.0	220.5	39.4	70.4	125.2	103.9	447.8	1769.9
1898	1383.0	539.5	1289.3	108.2	198.0	111.0	9.9	102.9	73.2	102.4	113.8	56.9	4088.1
1899	199.4	181.4	96.5	162.6	108.2	124.5	105.1	85.1	105.9	50.0	51.0	264.4	1534.1
1900	86.1	129.3	181.9	45.7	199.1	40.4	113.0	25.4	62.7	8.9	43.4	53.8	989.7
1901	134.1	344.1	513.1	138.4	176.3	111.8	157.8	121.4	33.3	89.9	95.5	57.7	1973.5
1902	58.4	135.4	48.8	37.3	8.4	6.4	40.9	27.7	30.7	79.0	82.6	72.1	627.7
1903	151.6	149.0	254.3	59.4	611.4	45.5	164.0	108.5	122.4	125.5	212.6	76.5	2080.7
1904	191.2	83.6	343.0	436.9	252.2	6.6	63.5	25.1	35.3	78.0	79.0	166.6	1761.0
1905	322.3	146.5	134.1	200.9	121.4	34.2	3.6	29.5	22.0	139.4	39.1	215.1	1408.1
1906	213.9	388.6	249.7	31.2	186.9	80.2	13.7	139.9	148.3	180.8	104.9	128.2	1866.3
1907	124.7	465.6	251.7	50.5	155.7	188.7	25.4	14.4	5.8	24.9	119.3	167.4	1594.1
1908	261.1	465.3	608.3	155.1	86.1	16.5	72.6	52.3	28.1	80.8	212.3	91.1	2129.6
1909	143.2	120.4	113.8	154.7	18.3	126.0	85.8	87.9	63.7	80.8	64.3	654.6	1713.5
1910	289.8	100.0	487.4	94.5	55.6	356.6	16.0	17.5	52.6	100.3	86.7	157.5	1814.5
1911	726.2	494.0	423.7	74.7	30.7	3.3	91.1	66.5	9.9	162.3	44.2	76.7	2203.3
1912	142.7	221.2	349.0	45.0	35.3	241.8	54.3	33.5	5.6	169.1	106.9	85.3	1489.7
1913	551.9	222.8	99.3	374.1	206.5	107.1	180.8	1.5	101.0	8.4	7.9	113.0	1974.3
1914	170.4	560.0	429.8	13.4	160.5	223.8	66.3	52.6	57.4	163.0	80.2	146.6	2124.0
1915	146.8	491.5	6.3	33.0	96.0	19.8	54.9	47.2	125.2	5.3	106.9	64.0	1196.9
1916	134.8	93.1	128.3	335.8	74.9	64.7	87.1	109.5	172.8	157.2	141.9	351.8	1851.9
1917	208.9	176.5	204.5	101.1	69.6	8.9	11.2	84.2	142.3	44.4	361.6	224.2	1637.4
1918	487.4	253.9	346.7	183.2	124.3	5.3	10.1	89.1	76.2	15.3	34.0	86.9	1712.4
1919	16.0	113.2	206.1	236.8	329.0	86.9	30.7	32.2	4.3	15.8	14.7	18.3	1104.0
1920	637.8	137.9	129.0	207.6	143.6	103.7	71.9	50.9	88.6	178.8	182.1	85.4	2017.3
1921	190.1	109.5	386.2	360.8	121.6	257.1	198.4	43.7	165.5	50.4	67.2	391.0	2341.5
1922	179.1	698.5	47.7	45.7	97.6	59.0	95.7	14.5	67.1	40.8	79.0	238.0	1662.7
1923	152.3	106.0	145.1	544.8	22.9	73.1	135.6	41.9	46.2	28.0	141.4	205.4	1642.7

**Cyclone and Flood Summary - South East Queensland - 1800s – 2006**  
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1924	164.4	209.9	214.2	79.8	108.0	90.9	225.5	41.4	42.9	179.7	169.6	142.4	1668.7
1925	377.7	242.3	682.8	120.4	255.3	453.3	10.2	149.4	16.0	46.2	199.6	174.1	2727.3
1926	286.8	2.5	106.3	143.6	167.0	171.9	33.8	0.0	148.8	27.5	9.7	668.3	1766.2
1927	984.9	99.0	568.6	199.4	3.0	92.4	10.2	0.0	177.1	157.0	202.7	401.3	2895.6
1928	264.3	1047.9	84.8	882.4	93.4	84.5	42.7	36.2	3.8	24.9	22.3	103.9	2691.1
1929	308.1	197.0	157.7	414.9	16.0	100.3	5.1	15.3	3.0	168.7	75.6	206.0	1667.7
1930	653.7	239.7	165.0	97.0	419.0	540.5	67.1	76.5	11.9	74.4	63.6	76.6	2485.0
1931	354.8	915.2	407.0	85.2	96.3	40.9	39.7	74.3	63.5	38.1	266.3	274.4	2655.7
1932	24.1	179.4	93.2	342.9	74.7	51.6	14.5	11.7	186.0	118.4	104.2	47.1	1247.8
1933	120.5	127.7	87.5	275.6	20.8	50.0	155.8	43.1	191.6	178.3	307.1	466.9	2024.9
1934	214.8	488.2	190.4	419.8	244.5	45.0	125.3	33.2	23.8	75.2	213.8	121.3	2195.3
1935	213.2	391.3	197.5	144.1	80.6	7.9	133.3	144.3	90.4	146.3	43.7	202.2	1794.8
1936	227.0	84.4	536.9	77.0	154.1	110.5	51.4	0.0	28.9	29.7	55.9	59.3	1415.1
1937	63.2	241.3	420.2	83.5	15.0	52.0	46.8	78.4	6.8	178.9	270.0	149.7	1605.8
1938	540.7	83.2	328.9	31.0	589.3	70.9	89.8	27.0	33.8	190.5	102.8	7.6	2095.5
1939	139.2	107.9	441.4	225.5	134.0	92.9	76.1	69.8	11.2	79.4	45.5	48.1	1471.0
1940	255.8	266.7	440.0	142.0	46.7	41.8	61.1	99.0	16.0	38.2	159.4	217.8	1784.6
1941	282.7	223.7	253.2	176.9	319.3	79.5	5.9	12.0	1.1	14.7	56.5	52.9	1478.4
1942	126.4	542.4	78.6	206.6	37.8	70.6	92.5	6.1	25.4	124.5	73.4	525.1	1909.4
1943	185.1	162.6	84.6	56.1	26.2	52.0	1.3	39.0	145.6	260.6	101.4	250.5	1365.0
1944	425.7	91.3	111.1	4.5	57.8	96.0	213.6	55.8	79.2	74.2	224.3	137.7	1571.2
1945	76.8	178.3	206.3	170.4	93.1	179.8	94.8	8.6	40.1	78.8	75.2	150.0	1352.2
1946	204.3	247.0	605.9	212.3	39.1	3.8	14.5	7.8	74.7	101.7	43.6	81.3	1636.0
1947	285.3	713.9	493.7	151.0	129.4	6.4	2.5	28.1	113.3	71.3	160.1	191.6	2346.6
1948	178.6	165.5	449.7	262.8	270.7	178.9	18.0	47.7	52.3	2.3	70.9	214.3	1911.7
1949	182.9	380.0	553.1	63.6	96.2	71.9	53.0	42.4	132.9	329.3	63.6	151.7	2120.6
1950	339.1	826.1	398.4	195.7	84.9	187.8	655.8	102.1	29.1	156.0	223.1	292.4	3490.5
1951	900.2	276.0	427.3	30.1	42.9	57.6	6.2	20.8	16.8	125.2	24.1	74.9	2002.1
1952	154.2	194.1	355.5	189.6	192.0	145.5	88.9	152.3	59.8	162.3	41.9	68.5	1804.6
1953	423.5	1041.9	376.7	204.2	58.1	0.0	9.9	246.2	33.9	132.2	94.6	143.6	2764.8
1954	333.1	683.5	174.9	93.4	106.2	49.5	522.7	107.9	63.9	222.5	147.3	36.9	2541.8

**Cyclone and Flood Summary -South East Queensland - 1800s – 2006**  
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1955	130.4	240.6	977.3	470.2	301.4	81.8	55.5	4.1	66.4	79.0	37.3	266.4	2710.4
1956	386.3	506.6	1164.5	181.3	144.4	156.3	43.9	9.1	27.7	57.2	80.8	280.6	3038.7
1957	169.3	179.2	85.6	7.6	3.3	46.7	126.0	104.1	1.3	96.8	51.4	43.9	915.2
1958	248.4	356.7	197.5	552.1	35.2	530.1	0.8	53.5	68.2	37.8	76.6	337.3	2494.2
1959	442.0	318.7	289.4	89.9	95.3	55.4	113.6	29.9	147.1	207.3	401.0	127.0	2316.6
1960	210.3	240.6	137.7	86.4	170.2	28.8	44.0	14.7	10.2	87.9	117.0	59.6	1207.4
1961	267.9	348.7	162.7	88.1	67.1	43.5	41.8	35.6	71.0	285.6	269.8	226.2	1908.0
1962	299.1	153.0	402.4	218.3	17.5	26.0	129.6	31.7	52.8	37.4	55.6	331.4	1754.8
1963	590.0	135.1	770.1	120.0	171.3	11.2	8.9	88.8	15.0	198.0	134.1	126.8	2369.3
1964	62.7	230.8	594.3	186.3	139.7	27.6	47.0	34.6	167.7	64.3	122.2	110.7	1787.9
1965	183.0	93.2	37.0	107.2	137.2	253.5	184.6	133.0	74.0	115.2	211.3	301.2	1830.4
1966	94.8	158.8	225.6	171.9	24.6	139.9	33.4	162.2	86.1	108.6	99.1	236.6	1541.7
1967	403.5	170.3	445.2	183.7	212.1	751.1	69.4	24.1	29.9	115.7	102.4	96.1	2603.5
1968	899.2	312.3	189.7	59.1	93.3	4.8	63.0	48.6	9.7	10.2	117.3	52.6	1859.8
1969	25.2	136.6	140.9	44.5	420.1	28.3	67.6	192.3	44.0	278.8	143.6	123.4	1645.3
1970	419.6	266.5	93.0	141.3	18.6	16.1	27.9	36.6	44.9	63.1	162.6	728.9	2019.1
1971	376.4	771.2	284.6	108.7	21.1	21.0	61.0	73.4	49.0	66.5	126.8	287.8	2247.5
1972	282.3	1274.7	247.6	353.6	266.0	89.1	1.3	11.0	6.6	217.2	213.1	68.2	3030.7
1973	281.0	505.7	128.4	98.6	33.6	50.8	989.3	30.4	55.6	208.0	75.2	245.1	2701.7
1974	1534.4	259.0	580.0	396.4	183.4	102.2	30.0	57.6	60.4	126.0	336.4	29.4	3695.2
1975	217.4	135.6	71.2	189.4	36.4	110.2	30.6	86.0	145.0	109.2	226.2	321.6	1678.8
1976	659.4	427.3	823.0	225.6	286.0	41.4	82.2	2.8	105.8	73.0	213.6	41.2	2981.3
1977	177.8	247.6	229.8	77.6	61.8	30.4	72.2	14.2	18.0	50.0	143.6	55.2	1178.2
1978	198.2	307.8	329.2	108.8	127.8	32.4	81.2	96.0	145.0	52.2	173.8	133.2	1785.6
1979	345.4	261.0	109.6	110.0	35.0	103.2	46.2	3.6	23.4	101.8	121.2	103.0	1363.4
1980	186.4	391.6	24.0	71.2	489.6	17.0	65.6	57.8	0.2	119.0	59.6	267.8	1749.8
1981	180.0	465.0	72.6	235.2	215.2	74.2	65.8	53.2	8.6	34.7	269.0	215.4	1888.9
1982	625.0	166.6	368.4	122.0	118.8	11.4	25.8	88.0	70.4	56.2	27.2	87.8	1767.6
1983	149.0	56.6	165.9	277.0	436.0	526.4	110.6	102.8	81.0	130.0	341.2	268.8	2645.3
1984	188.2	81.2	86.4	169.6	55.0	144.2	226.2	28.2	37.0	258.2	125.0	148.0	1547.2
1985	251.4	108.0	474.2	82.8	124.0	51.2	179.4	55.4	66.2	114.8	110.8	109.6	1727.8

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
1980	186.4	391.6	24.0	71.2	489.6	17.0	65.6	57.8	0.2	119.0	59.6	267.8	1749.8
1981	180.0	465.0	72.6	235.2	215.2	74.2	65.8	53.2	8.6	34.7	269.0	215.4	1888.9
1982	625.0	166.6	368.4	122.0	118.8	11.4	25.8	88.0	70.4	56.2	27.2	87.8	1767.6
1983	149.0	56.6	165.9	277.0	436.0	526.4	110.6	102.8	81.0	130.0	341.2	268.8	2645.3
1984	188.2	81.2	86.4	169.6	55.0	144.2	226.2	28.2	37.0	258.2	125.0	148.0	1547.2
1985	251.4	108.0	474.2	82.8	124.0	51.2	179.4	55.4	66.2	114.8	110.8	109.6	1727.8
1986	53.8	63.0	103.0	90.2	180.0	25.4	111.0	71.6	52.2	189.0	183.0	155.2	1277.4
1987	65.8	267.6	101.6	184.2	116.2	194.2	80.0	90.0	3.4	198.2	81.8	247.2	1630.2
1988	136.4	116.8	268.1	753.0	33.2	335.8	216.4	65.2	42.4	8.0	36.4	626.8	2638.5
1989	167.0	258.0	505.2	1051.8	288.8	80.4	68.0	135.0	24.2	36.6	214.0	96.4	2925.4
1990	108.2	559.0	349.6	282.2	198.6	163.8	53.8	11.6	8.2	88.1	182.3	171.4	2176.8
1991	90.6	231.8	137.6	30.2	137.0	44.4	37.4	0.0	5.0	69.7	60.2	628.0	1471.9
1992	80.0	915.0	556.5	256.0	139.6	21.0	80.0	27.0	57.0	21.0	137.0	115.0	2405.2
1993	166.0	263.0	378.0	67.0	82.8	21.2	127.8	125.0	105.0	95.0	231.0	194.0	1855.8
1994	348.0	258.0	466.0	172.2	138.2	12.8	54.0	17.4	23.4	50.4	30.0	220.0	1790.4
1995	111.8	678.8	146.6	104.8	76.6	74.0	7.2	64.4	44.2	80.0	204.8	180.8	1774.0
1996	353.8	110.0	152.8	86.8	430.8	68.4	41.2	22.4	17.2	103.8	78.0	141.6	1606.8
1997	189.0	121.0	187.2	108.8	232.2	32.2	50.6	25.4	35.6	122.2	173.8	148.8	1426.8
1998	199.2	73.0	143.4	205.2	162.0	50.4	79.6	142.8	318.6	7.2	181.4	117.4	1680.2
1999	277.4	880.0	314.6	143.4	450.0	231.2	209.6	130.6	130.6	189.2	128.4	325.4	3410.4
2000	84.8	296.2	116.4	233.4	239.4	100.2	33.6	51.8	0.6	278.4	225.4	175.2	1835.4
2001	47.0	356.4	205.0	101.8	27.4	83.4	56.8	20.0	32.8	47.0	196.6	123.4	1297.6
2002	115.2	149.2	140.8	140.8	92.8	132.8	1.8	164.0	28.6	88.4	117.2	266.4	1438.0
2003	37.6	783.0	221.6	188.4	128.4	36.2	71.8	102.8	2.6	107.2	100.0	185.0	1964.5
2004	237.4	142.2	381.2	178.8	21.0	16.4	8.2	6.4	28.6	80.6	214.2	235.0	1550.0
2005	179.6	46.0	37.0	215.4	153.2	181.8	51.2	29.6	54.0	126.6	185.4	217.8	1477.5

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