



Update: Mossman Community Preparedness Session 11 Nov 2025

A presentation by JB Pacific, Flood Engineer Specialists provided an overview of the Marris Creek Levee Assessment Study, **Key Objectives included;**

- **Understanding Flood Risk:** Update the existing Mossman River detailed models for the assessment of mitigation options and their impact on flood behaviour, including depth, extent, and velocity for a range of flood events.
- **Mitigation and Adaptation:** Assess and guide the implementation of sustainable flood mitigation options.
- **Community Protection:** Support emergency response by reducing the impact of flooding in the Marris Creek area and the rest of Mossman allowing residents and tourist greater accessibility during flood events.

Recommendations include

- Further technical studies required – Ground Survey, Geotechnical Survey, Damages assessment.
- Further refinement of design – design immunity, level of protection, Climate change.
- Additional assessments to explore Cost vs Average Annual Damages Reduction to determine cost benefit ratio.

Emotional Preparedness Session

- David Younger wrapped up the session with an overview on how the rational decision-making part of our brains can be affected during stressful situations like disaster events, and what **we can do to prepare for these situations**. This resource from the Australian Psychological Society gives a deeper understanding on how we can prepare psychologically for natural disasters.
- **Psychological Preparedness handout provided in the session**
<https://psychology.org.au/for-the-public/psychology-Topics/disasters/preparing-for-disasters>
(see the information sheet tab).

Arts & Wellbeing (planning) Workshop(s)

Workshops are planned for early Feb 2026 for interested community members/creatives to explore and design projects, that continue to strengthen local connections and resilience, through art and wellbeing activities, register interest via recovery@douglas.qld.gov.au

- Stay informed, subscribe to real-time alerts go to www.dashboard.douglas.qld.gov.au

**Please note the Dashboard App is no longer available.*



New Light Detection and Ranging (LiDAR) flood-monitoring technology

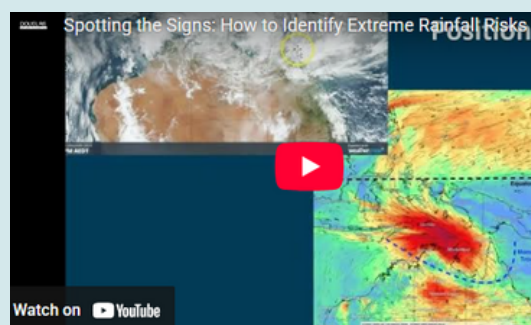
- Douglas Shire Council is trialling new LiDAR flood-monitoring technology to **enhance local flood preparedness and improve community safety**. The monitoring system will be fully installed in the new year. Located at the low point in the road north of Foxton Bridge and at the low point south of the Saltwater Bridge.
- The aim is to provide **earlier warning, faster road-closure decisions**, and more reliable information for residents during severe weather.
- This trial aligns with Council's ongoing **commitment to safety, resilience, and continuous improvement** across the region.
- Community members will be able to access the LiDAR data once trial is complete (early 2026).

WeatherIQ Update:

Weather intelligence expert Chris Nitopoulos (Nitso) from WeatherIQ detailed the events leading up to the flooding associated with Tropical Cyclone Jasper and provided tools and insights into local weather forecasting.

Recordings can be viewed on [Council's website](#) or Councils YouTube channel

- [Video 1: 2023 Flooding](#)
- [Video 2: Spotting the signs](#)



Marrs Creek Levee Project Update

The Marrs Creek Flood Study is progressing well, with the hydraulic design report and flood levee concept design nearing completion. Once the flood study is finalised and the preferred flood levee design is confirmed, detailed design work will begin. Geotechnical testing and survey work is planned to start in the new year to support the next stage of the project.