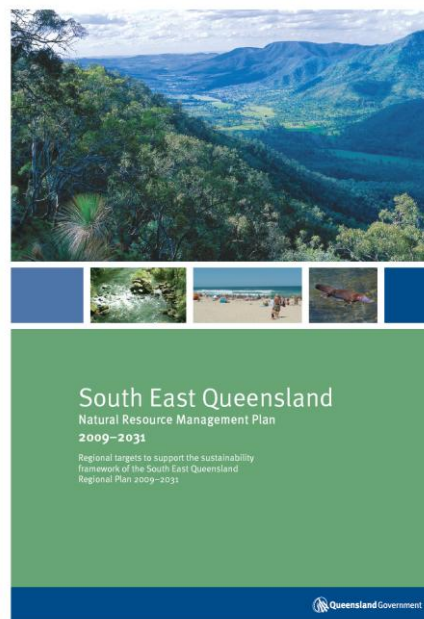


# 2014 Update of the SEQ NRM Plan - Science Library

## A strategic literature review to identify information to update the SEQ Natural Resource Management Plan (2009-2031) – Methodology and Results

Supporting Document for the 2014 Update of the SEQ NRM Plan



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## **Introduction**

Evidence of a warming climate is unequivocal and human influence on the climate system is clear (IPCC 2013). Historic emissions have committed the earth to some degree of warming regardless of any mitigation processes (Smith et al. 2009). Adaptation will be unavoidable (Berrang-Ford, Ford & Paterson 2011). Adger and Tompkins (2004) explained that adaptive management processes that have been informed by ecosystems and management responses, such as the South East Queensland (SEQ) Natural Resource Management (NRM) Plan, have increased present day resilience. The continuation of these adaptive management processes can increase the ability of systems to respond to climate change impacts (Adger & Tompkins 2004). These approaches will build resilience into natural resources on which society depends.

Considerable literature has accumulated over the years regarding impacts of climate change on biophysical systems. A literature review has been developed to outline the impacts of climate change with regard to each of the 41 NRM Targets established in the SEQ NRM Plan. This literature review will be utilized to inform and guide discussion at NRM workshops and the development of the 2014 Update. As the NRM Plan has an outlook to 2031, it is essential that management of natural resource systems is considered with the cumulative stresses of climate change (Adger & Tompkins 2004).

### **1.0 Methodology**

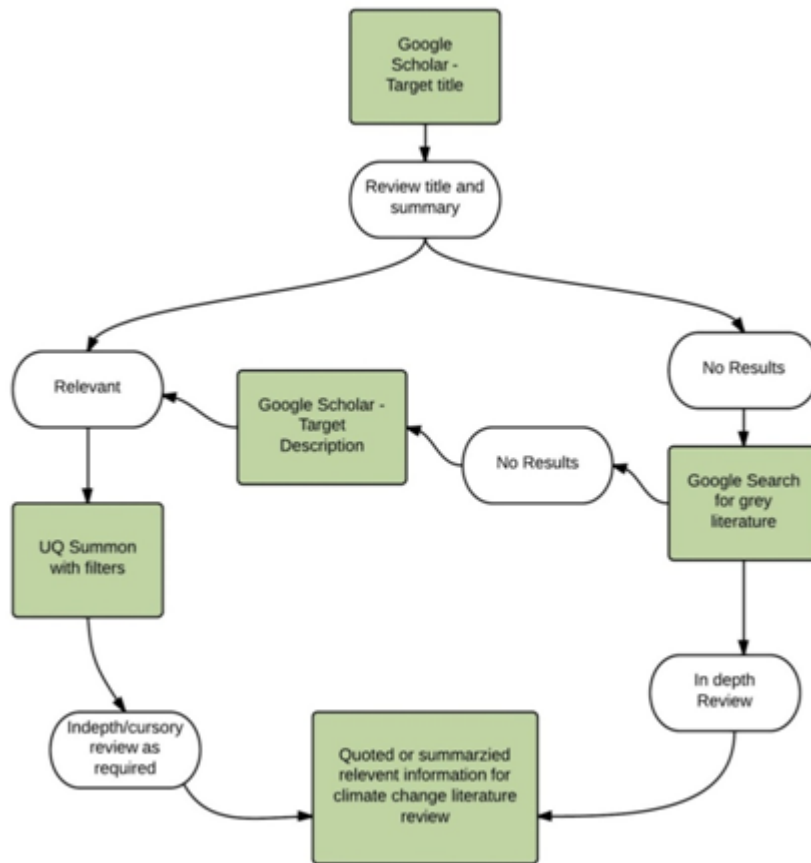
A systematic literature review was conducted to assess and identify climate change impacts on NRM targets relevant to the SEQ Region. This process allowed the breadth of climate change research to be explored and identify the most applicable literature to inform the 2014 Update. This information was used to guide and inform discussion at the Expert Panels. The final output will be the updated SEQ NRM Plan.

For the scope of this literature review it was not necessary to synthesise the literature, as subject matter experts from each of the related target asset groups would be commenting and value adding to the literature review. The literature review provides evidence to support actions. Additionally, it is expected that the Stream 2 East Coast Cluster project (established by the Australian Government) will provide support and guidance for NRM Groups. This information, utilized with the literature review, will inform climate change impacts and adaptation approaches.

## 1.1 Document Selection

This review focussed on peer-reviewed journals documenting current and potential impacts of climate change on South East Queensland's natural resource base and specifically on natural asset targets established in the SEQ Natural Resource Management Plan. All retrieved documents were reviewed to assess suitability. A keyword search was performed in Google scholar using the key topic terms "climate change impacts" and the relevant target title. Google scholar was selected as it covers a range of content providers, disciplines and sources. Search results were then reviewed based on their title and summary. To access the selected documents, their title was copied into Summon (UQ Library search base), with all search results filtered to include peer-reviewed journal articles. The review focused on climate change research published from 1990 to present and published in English. Retrieved documents were reviewed to assess their relevance. Articles were reviewed either by an in depth full-text review or in some cases a cursory review was all that was required to highlight the potential climate change impacts for the applicable NRM Target. Where there was no information in the peer-reviewed literature, a search was performed on the grey literature. This included Australian Government and CSIRO reports.

In some cases there was no literature covering the target class specifically (ie. Outdoor recreation settings). Because of the far reaching and multi-disciplinary effects of climate change, the area of focus was shifted to include the description from the NRM Target and information from the NRM Benchmark Atlas. Relevant keywords were drawn from these sources and entered into Google Scholar with the keyword 'climate change'.



**Figure 1 - Summary of Document Selection**

## 1.2 Document Review

Following the screening of documents, it was necessary to review the literature, ensuring that all potential climate change impacts on the targets were covered. These potential impacts were either quoted or summarized, whichever allowed the most effective communication, while ensuring links were made directly to the target. Following Expert Panel review, the most pertinent impacts on the SEQ region were incorporated into the target evaluation report.

SEQ faces unique climate change challenges; however, SEQ is not isolated in space and time and will suffer from similar impacts to other regions in the world. When there was no appropriate, region specific literature, previous climate change impact research conducted in other regions were extrapolated to SEQ. This was done by utilizing the best known climate change impacts for SEQ (eg. increased temperature, decreasing annual rainfall) and extrapolating studies conducted on those same impacts for the relevant target.

All documents were retained in the online bibliographic data base Zotero<sup>1</sup> for external review and validation.

### **3.0 Results**

152 references were recorded based on the strategic review.

The majority of NRM Targets are potentially impacted by climate change. Frequently reoccurring impacts included; changes in temperature and rainfall patterns, increased extreme events, such as fires, floods and droughts; and sea level rise impacts. The list of references appear in Appendix A.

### **4.0 Discussion**

The literature review has provided impacts that are more focussed on a specified NRM Target, rather than at an SEQ Region specific level. It is expected that the Stream 2 East Coast cluster, will provide further climate change impact information and potential adaptation responses that will be at a finer scale than this literature review entails. Due to the current dynamic of politics surrounding climate change, the exact details of what this information will contain and how it will be incorporated is unknown. Therefore, this literature review will put SEQ Catchments in good stead when Stream 2 information is received. Additionally, the literature review is broad enough to be easily incorporated and add value to Stream 2 information.

While this review included potential negative and positive impacts of climate change, in the context of NRM, it is apparent that areas of research on the negative impacts of climate change far outweigh the positives. Potential positive impacts may be unidentified. This can lead to opportunities for adaptation being missed. When dealing with adaptation it is essential to look at climate change holistically. Mitigation reduces both positive and negative impacts. Whereas adaptation can take advantage of positive impacts and reduce negative ones (Goklany 2005).

It will be necessary to determine what the most effective climate change mitigation and adaptation actions will be. The literature review has provided a basis for this by providing the key impacts to each NRM Target area. However, it will be important to prioritize actions through a discussion, identification and assessment of potential contributions towards climate change mitigation and adaptation. Further areas of

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<sup>1</sup> [www.zotero.org](http://www.zotero.org)

research would include; other co-benefits, implementation constraints and risks of failure (Lukasiewica, Finlayson, & Pittock n.d.).

## **5.0 Conclusion**

It has been found that a changing climate has far reaching impacts across the spectrum of natural resource targets established under the SEQNRM Plan. These impacts will need to be considered when planning for NRM. Science can provide information on which to base decisions to address risk. Adaptation and mitigation are essentially both about reducing the undesirable consequences of climate change (Swart & Raes 2007). Successful NRM should encourage development that takes advantage of opportunities, mitigates problems, avoids hazards and prepares people for unavoidable challenges (Barrow 2006). The interrelations between these options need to be balanced and appropriate plans and policies put into place.

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