

# OUR COASTAL FUTURE

## COASTAL HAZARD RISK MANAGEMENT AND ADAPTATION PLAN

The Shires of Gingin and Dandaragan are working together to prepare a Coastal Hazard Risk Management and Adaption Plan (CHRMAP) for the coastlines of Seabird, Ledge Point, Lancelin, Cervantes and Jurien Bay. Coastal management specialists, Cardno, have been engaged to assist in this process.

### What is a CHRMAP?

A CHRMAP is a strategic planning document that informs the community and decision makers about the potential hazards, consequences and actions needed to meet the challenges of sea level rise.

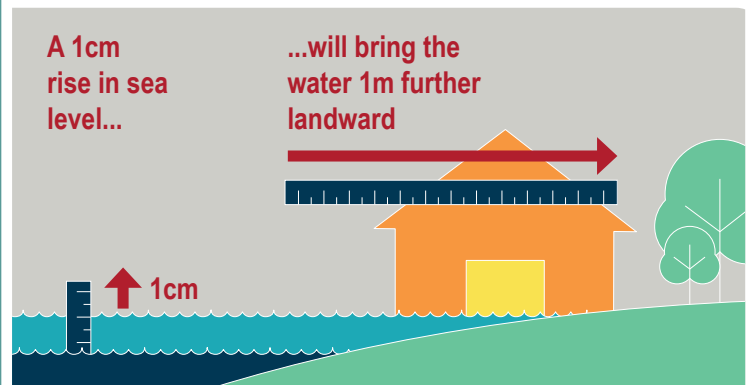
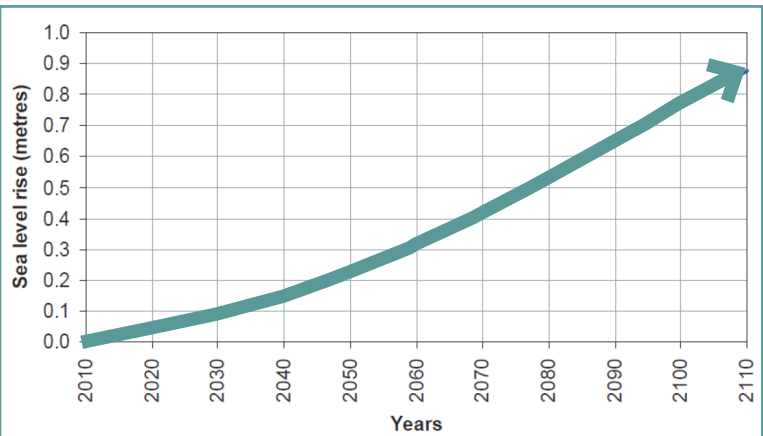
Gingin and Dandaragan Shires have low-lying, sandy coastlines, and in many locations there are homes and other infrastructure situated close to the shoreline. The coastline and beaches are also valued for their natural character and as recreational areas for swimming, walking and other activities. Sea level rise has potential to place these social, environmental and economic values at risk.

The CHRMAP aims to identify areas and assets vulnerable to sea level rise, and develop strategies to minimise the risk and preserve coastal values and equitable enjoyment of the coastline in the future.

CHRMAPs are developed under the *State Planning Policy 2.6: The State Coastal Planning Policy*.



Coastal erosion - Jurien Bay



Sea level rise has been measured over recent decades and in Western Australia coastal planning is required to address coastal erosion and inundation associated with a predicted rise of 0.9 m over the next 100 years.

\* Infographics from the Department of Transport and [www.coastadapt.com.au](http://www.coastadapt.com.au)



Ledge Point



Visit the website:

Shire of Dandaragan  
<https://www.dandaragan.wa.gov.au/environment-and-coastal-adaptation-plan.aspx>

Shire of Gingin  
<http://www.gingin.wa.gov.au>

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## What's been done so far?

Maps showing predicted coastal erosion risk for the towns of Seabird, Ledge Point, Lancelin, Cervantes and Jurien Bay are available from Shire websites (see the links below), and they are also displayed at Shire Offices and public libraries. We encourage all residents and coastal users to view the hazard maps.

## How can I be involved?

Community and stakeholder engagement is a key component of the CHRMAP. The Shires would like your input to help decide how we should respond to the risk of erosion. We want to know what you value about the coast and what you consider important for future planning purposes.

A public workshop will be held by each Shire in late May, which we encourage you to attend. Details will be posted on each Shire websites and social media closer to the date. Towards the end of the year, a draft of the CHRMAP will be released for public comment.

## CHRMAP Process Plan



## Avoid

Identify future 'no build areas' and use planning tools to prevent new development in areas at risk now or in the future



## Retreat

Withdraw, relocate or abandon assets that are at risk; ecosystems are allowed to retreat landward as sea levels rise



## Accommodate

Continue to use land in developed areas and accommodate risk through raised floor levels, raised roads, etc. Mostly relevant for managing inundation (temporary flooding).



## Protect

Use hard structures (eg sea walls) or soft solutions (eg dunes and vegetation) to protect land from the sea. May be prohibitively expensive, especially in the long term

Planning for sea level rise needs to follow the Planning Commission's adaptation hierarchy. Protection options will only be considered where public good can be demonstrated.

\*Infographics from [www.coastadapt.com.au](http://www.coastadapt.com.au)



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