Managing Coastal Hazards – a history of coastal erosion and the Planned Retreat strategy within Byron Shire



October 2008

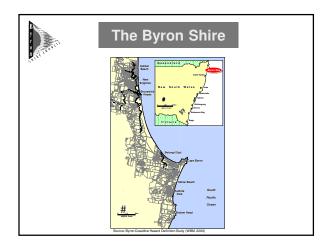
Authors: Fitzgibbon, B. Barham, J.



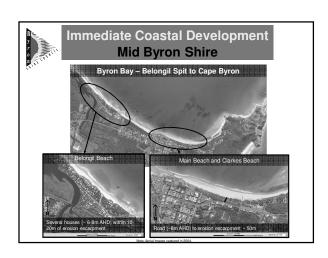
Overview

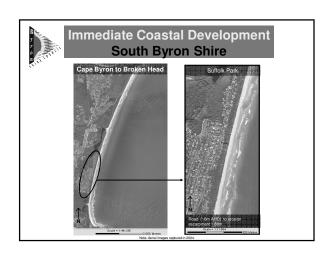
This presentation explores the history of the Byron Shire coastline with relevance to:

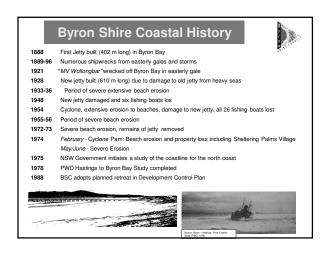
- 1. large coastal storm events and associated coastal erosion
- 2. Planning controls "Planned Retreat" strategy and legal challenges

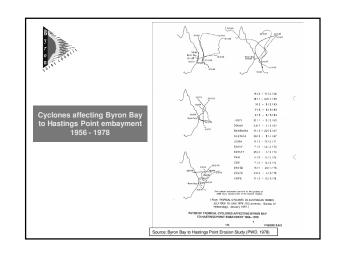


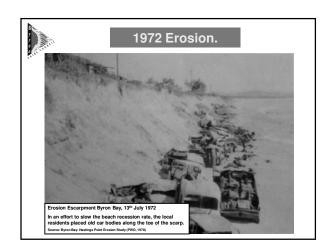


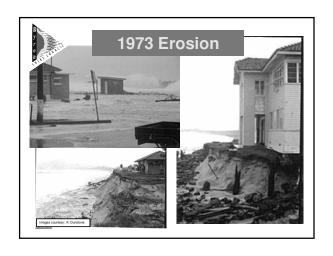


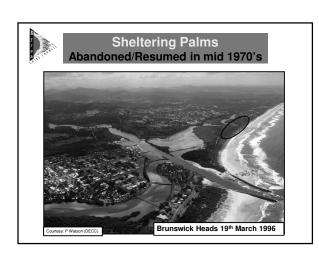


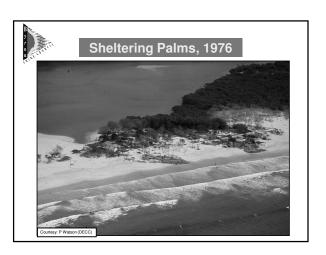


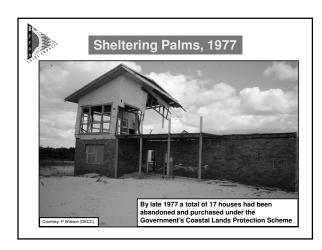




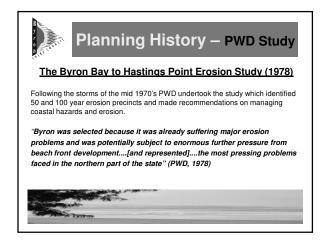


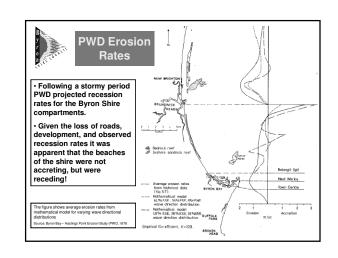












Recommendations

"In the past, unwise development has occurred due to the lack of understanding of the coastal processes by all parties concerned. In the future, persons wishing to disregard the long term erosional trend identified by this investigation, or the implications of that trend, do so at their own risk" (PWD, 1978)

PWD Study proposed 5 categories of Management Options

- No co-ordinated management plan
- A re-zoning of affected areas A policy of relocation An insurance scheme Engineering Works

PWD 1978: " retain a buffer zone (as above) and allow the construction of transportable and removable structures. In this case it would be advisable that the area be zoned such that protective works can not be undertaken and that buildings have to be removed as soon as they become affected by the landward boundary of the buffer zone"

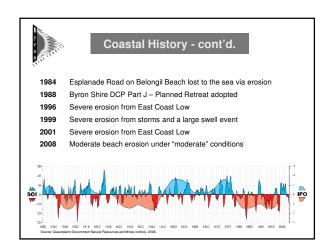


DCP Part J Planned Retreat

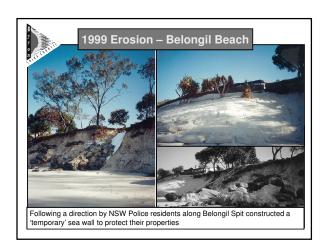
Purpose

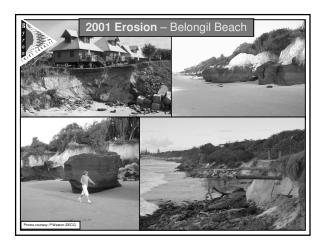
to provide advice, guidelines and development standards addressing coastal hazard issues in Byron Shire.

- To make provision for the orderly and economic development of land within the coastal erosion zones.
- To ensure that such development is carried out in a manner which does not adversely affect coastal processes and which will not be adversely affected by coastal processes.
- To provide guidelines for determination of the merits of development on coastal lands as required by section 79C(a)(iv) of the Environmental Planning and Assessment Act 1979.

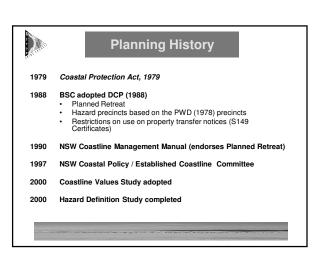














Planning History

Investigate sand nourishment for Belongil/Byron Bay 2003

Adopted the Byron Coastline Management Study 2004

· adopted "Retreat" under public and private ownership for development and infrastructure

Council considers Sand Lobe report and 2006

- abandons sand nourishment option
- · Recommits to planned retreat for CZMP

2008 Preparing a draft CZMP

· implementation of planned retreat ongoing



LEGALS

Court upholds Council refusals and of condition of approval lapsing subject to proximity to escarpment - 54m, 80, (Hogan, Belongil by the Sea, Cooper & Greaves,

- 1988 Demolition orders upheld Bolens. Trainor,
- 1990 Court upholds refusal of large demountable dwelling Vaughan 1991 Challenge S88E Restriction on Use Court upheld as valid -Vella
- 1996 Court upholds Council refusal of a **seawall** DA to protect several houses Scott
- 1999 Council unsuccessful in application for injunction to stop emergency rock works by residents under State Emergency and Rescue Management Act 1999 Vaughan & others
- 1999 Consent orders works installed under police emergency notice only 'interim protection works'
- 2003 Appeal against DA refusal for a rock wall dismissed on grounds that the application was 'unclear' as to what effect the construction of the proposed wall would have on adjoining properties and the DA was deemed to be invalid - Parkes
- 2004 Court upholds Council refusal of application for change of use of house to bed and breakfast dismissed - Parkes
- 2004 Application seeking declaration that property has "existing use rights" refused by the Court. The realisation of the coastal erosion trigger in the s88E Restriction on Use rendered the development unlawful and it had no 'existing use rights'. - Kendall St
- $\textbf{2006}- \textbf{Court upholds refusal of application to replace a previously} \ \textbf{existing building} \ \textbf{in the}$ same location dismissed - Van Haandel



Overview of BSC Coastal Management Policy

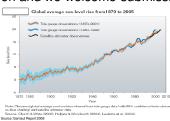


- Planned retreat has been applied for more than 20 years, via LEP (land zoning) and DCP (development controls) provisions.
- A draft CZMP is in final stages of preparation in accordance with Act and Manual based on Planned Retreat
- Council has also adopted Climate Change parameters for a whole of council approach including flood, estuary, infrastructure and coastal management
- Council is seeking local provisions to be added to the LEP template to provide for the current coastal planning processes
- A submission to the Federal Government Climate Change inquiry has attracted a lot of attention



Stay Tuned

The Draft Plan will be on Public Exhibition soon and we welcome submissions





References

Bureau of Meteorology 2008 (online)

Garnaut, R. (2008) Garnaut Climate Change Review (online), Australia

Gordon, A. D., Lord, D. B. and Nolan, M. W. (2008) Byron Bay - Hastings Point Erosion Study. Department of Public Works NSW, Report No. PWD 78026 November, 1978.

 $\label{eq:helman} \textit{Helman}, \textit{P} \ (2008) \ \textit{Unpublished PHD Thesis}. \ \textit{Southern Cross University}, \\ \textit{Lismore}. \ \textit{Australia}$

NSW Government (1990) Coastline management Manual. New South Wales.

WBM (2000b) Byron Shire Coastline Hazard Definition Study. WBM Oceanics