* learn about where you live * learn about where you live * learn about where you live *

* drive * talk * walk * drive*

Noosa Integrated Catchment Assn. Inc.

www.noosariver.com.au

NICA

20th ANNIVERSARY

CATCHMENT EXCURSION No. 2

River Mouth and Noosa Spit
history, restoration
and recreation

MEET AT
2.30pm Saturday 2nd April 2016
LAGUNA LOOKOUT
top end of Viewland Drive
NOOSA HEADS

BYO AFTERNOON TEA
AND CHAIR

For more information phone Stephanie 5449.8118

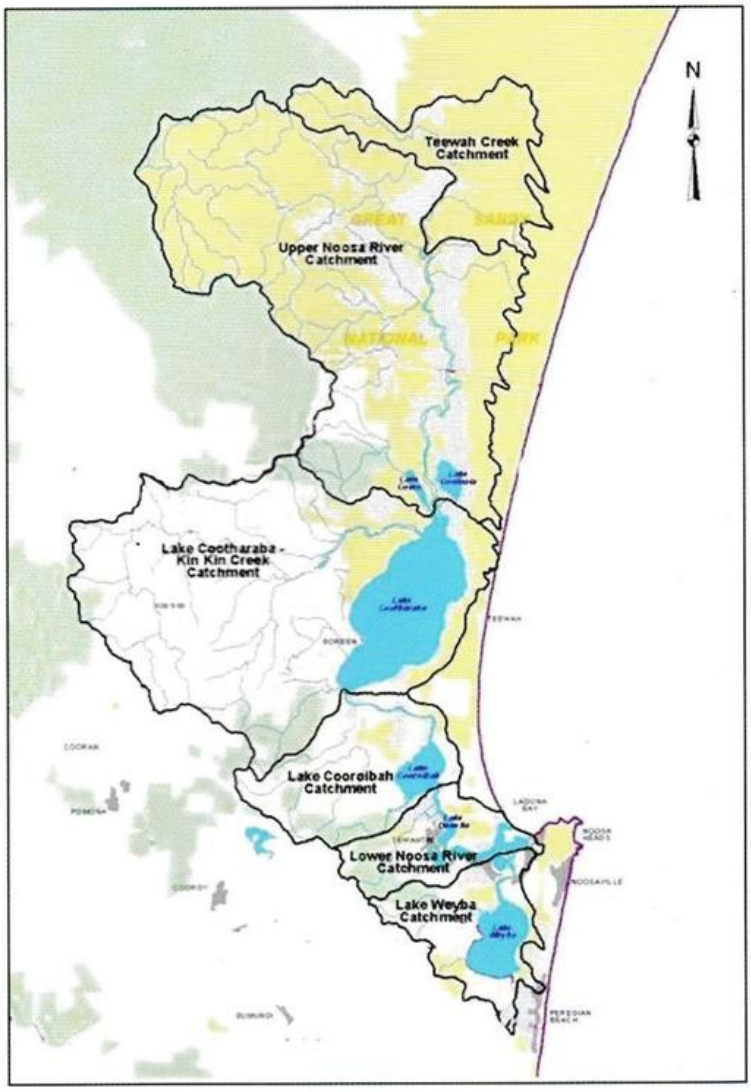
* drive * talk * walk * drive*

* drive * talk * walk * drive*

* drive * talk * walk * drive*

* learn about where you live * learn about where you live * learn about where you live *

Noosa River Catchment



What is a catchment?

A catchment is the land area from which rainwater drains to a river. Some water remains underground, slowly feeding the river between rainfall events.

References:

The Noosa Story by Nancy Cato

The Shaping of Noosa by Michael Gloster

Hastings Street by Emma Freeman

Noosa's Native Plants Ed. 3 by Stephanie Haslam

www.noosasnativeplants.com.au

www.noosariver.com.au

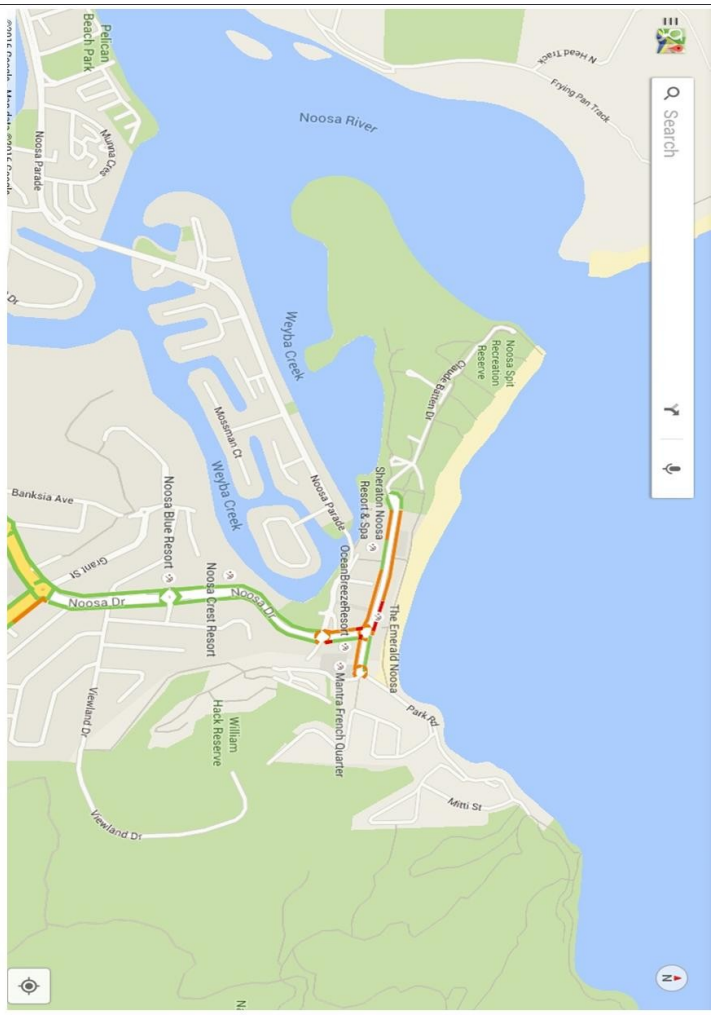
Historical ecology of the Noosa Estuary fisheries
Dr. Ruth H. Thurstan

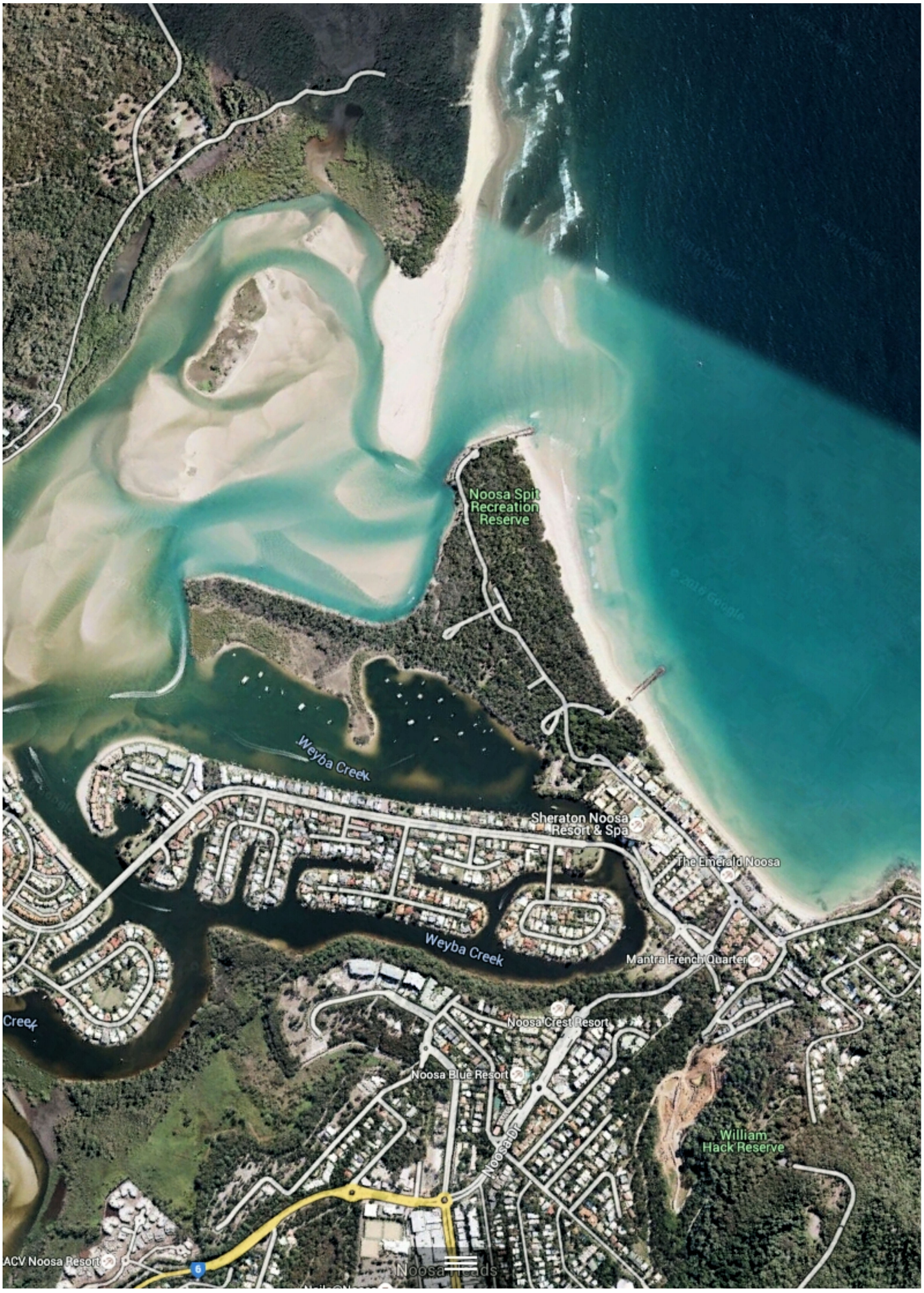
Noosa River Spit Erosion options review
International Coastal Management Pty. Ltd.

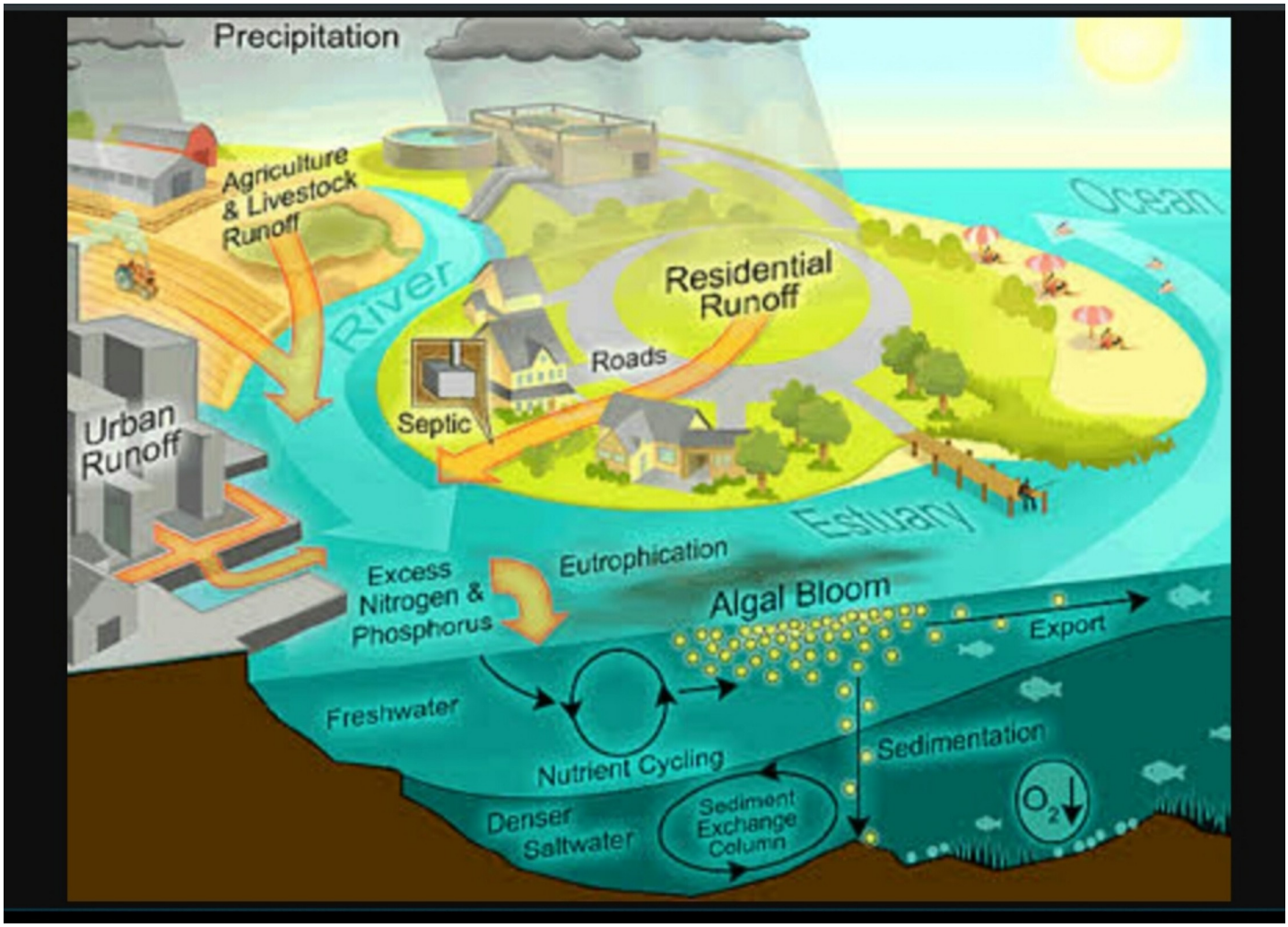
Noosa River realignment and erosion of The Spit
R. J. Tooth

Main Beach erosion and sand recycling
R. J. Tooth

Material supplied by Noosa Council




Noosa Spit Recreation Reserve
Weyba Creek
Sheraton Noosa Resort & Spa
The Emerald Noosa
Weyba Creek
Mantra French Quarter
Noosa Crest Resort
Noosa Blue Resort
William Hack Reserve
Noosa Dr
ACV Noosa Resort
6


Precipitation
Agriculture & Livestock Runoff
River
Residential Runoff
Roads
Septic
Urban Runoff
Ocean
Estuary
Excess Nitrogen & Phosphorus
Eutrophication
Algal Bloom
Export
Freshwater
Nutrient Cycling
Sedimentation
Denser Saltwater
Sediment Exchange Column
O2

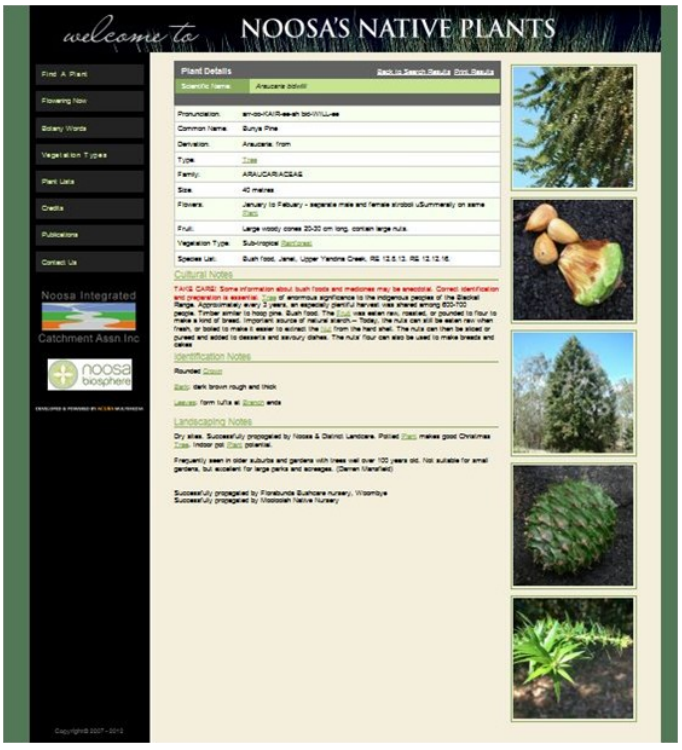


Photo Tony Haslam-

The rock wall in 1972-73 after it was extended the entire length of the beach (Source unknown).

S.C.D. 10/3/83

Protect spit: Group

NOOSA Parks Association has formulated a suggested recreational plan for the controversial Noosa spit area.

Association environmental adviser John McCabe, who created the plan in conjunction with landscape architect Glen Gloster and association secretary Dr Arthur Harrold, said the concept would soon be presented to Noosa Shire Council.

The plan proposes development of low-key recreational activities and improved roads and parking, walking trails, bird observatories and picnic areas.

The spit was shrouded in controversy earlier this year with moves to development the area as a resort and marina.

The association has suggested a camping area be established adjacent to Noosa Woods to allow restoration work in the caravan park.

Mr McCabe warned that the Woods could be dead within several decades from compaction of soil and die-back of mature trees and lack of regeneration.

"The association suggests that further plantings be undertaken on the spit, including establishment of a littoral rainforest in one of the more protected areas," he said.

"The association believes that while recreational use of the spit can be developed to a greater degree than at present, the area is too fragile to allow intensive development, such as a marina.

"The plan for presentation to the council points out that Noosa Heads has only an extremely small area available for public recreation and that the spit offers a valuable low-key recreational facility, which could complement the developed environment of Hastings Street."

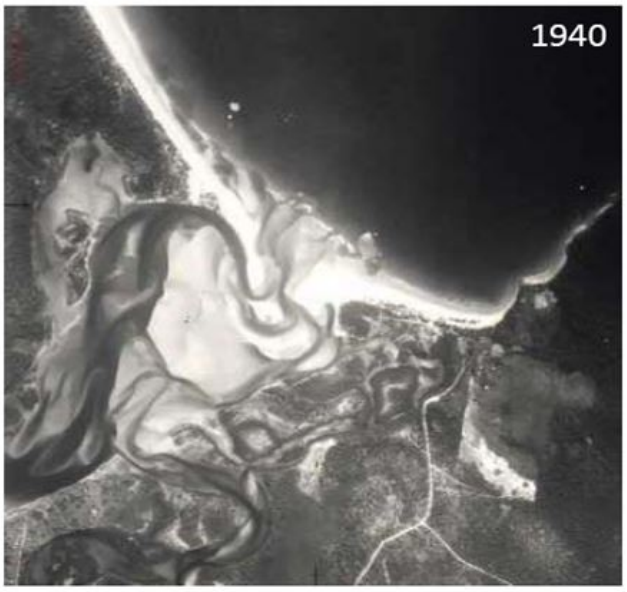
■ NOOSA Parks Association secretary Dr Arthur Harold and Mrs Glen Gloster study the group's suggested recreational plan for the Noosa spit area.

1. NOOSA PARKS ASSOCIATION

Dynamic nature of the Noosa River Mouth

- Historic Analysis of the Noosa River

Historic Analysis of the Noosa River – Pre-Reclamation



Noosa Spit Erosion Att 1 ICM Options Review

EXECUTIVE SUMMARY

Except for those areas already protected by rock works, Noosa River Spit is currently experiencing erosion along its full length, including the southern end of the Spit. Various options have been fully investigated using numerical modeling, including:

B. Establish erosion limit control lines [present strategy]
C. Stablise present channel location and beach
    C.1 Wall with embayed beach
    C.2 Groyne field
D. Relocate main channel away from the beach
    D.1 Submerged upstream closure
    D.2 Submerged upstream & downstream closure
    D.3 Training Wall with submerged upstream & downstream closure
E. Combination

Option E is the preferred option and includes [as per figure below]:

- Submerged curved "closure" [sand-filled geotextile mega-containers] designed to create an enclosed, stable beach and lagoon area
- Dredging and associated foreshore nourishment
- Training wall [sand-filled geotextile mega-containers with rock armour] to provide a control point for the southern channel
- Wall [rock] to prevent erosion along southern end of the Spit
- Two groynes [2.5m³ sand-filled geotextile containers] to stabilize the upstream beach