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Program Support Notes

Middle - Secondary

30mins

Managing Australia's Coastal Resources

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For Teachers:

Brief Summary of Program

Through interviews with experts and footage from around the country, we discover how coasts are created, what the coast consists of, how we use the coast's resources and why they are important. We also look at our impact on the coast and what government and community are doing to care for the coast for now and the future.

The Managing Australia's Coastal Resources program looks at:

- coastal form and processes;
- coastal resources;
- the major uses, impacts and threats; and
- coastal management.

DVD Timeline

00:00:00	Introduction
00:01:13	Coastal Form and Processes
00:04:46	Summary
00:05:30	Coastal Resources
00:09:44	Summary
00:10:29	Major Uses, Impacts and Threats
00:13:42	Summary
00:14:24	Part 2
00:18:16	Summary
00:18:53	Coastal Management
00:23:30	Summary
00:24:06	Part 2
00:27:56	Summary
00:28:31	Conclusion
00:28:46	End credits
00:29:21	End program

Other Relevant Programs Available from VEA

Australia's Mangroves – Lifecycle, Habitat and Place in Ecosystems
The Dynamic Coast CD Rom - Processes, Landforms and Human Impacts
Crisis in the Basin – The Impact of Irrigation on the Murray-Darling Basin
Exploring Water Habitats CD Rom
Darling Disaster
Australian Ecosystems Series

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Managing Australia's Coastal Resources

For Students:

Before Viewing the Program

1. Visit the coast (or look at photos of the coast if you don't live near the coast) and observe how the waves move sand and shape a beach.
2. Make a list of all the different ways you think people influence and impact on the sea and the coast.
3. Check the newspaper each day for a week and cut out any articles about the ocean or the coast. Discuss the current events of the coast.
4. What is the definition of 'the coast'? [there may be a number of varying answers]

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While Viewing the Program

1. Name three types of activities you see people doing on the beach at the start of the program.

2. Name the four experts interviewed on this program.

3. How are beaches formed?

4. On average, how much of a beach is below water?

5. List two different landforms, other than beaches, that make up the Australian Coast.

6. Name one country where migratory birds visit us from.

7. What are charismatic megafauna? Name one.

8. List two reasons why people visit the coast.

9. List three resources of the sea that have economic value.

10. What percentage of Australians live within an hour and half drive of the coast?

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11. What are some of the threats to the coast from the land side?

12. What is urban stormwater runoff?

13. How can a beach be rebuilt, according to Dr Rosengren?

14. What impact do concentrated nutrients have on the coast?

15. Tim Allen describes some impacts of shipping to Australia's coast, including the introduction of marine pests. Name one.

16. What might you leave behind if you spend a summer at the beach riding your surf board down the sand dunes?

17. What might be a result of climate change to the coast?

18. How far out into the sea does State Government have responsibility for coastal management?

19. The Australian Government (or Commonwealth) manages the sea, from the point the State Government finishes, out to...

20. Tim, Alison and Diane all make suggestions as to how coastal management could be improved. List one.

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After Viewing the Program

1. Research, via the internet, the ways in which the ocean contributes to our climate.
2. Sharks are often in the news for their negative impact on humans. Discuss the important role of the shark in the ocean. Then role play the situation that a shark has been sighted at a popular beach during summer. The roles may include:
 - The local coastal manager
 - A scientist
 - A surfer
 - Other members of the public.

Useful Resources

- Bennett, I. (1992) *Australian Seashores, adapted from W.J. Dakin Australian Seashores*, Collins/Angus and Robertson, North Ryde.
- Carter, R.W.G. (1988) *Coastal Environments: An Introduction to the Physical, Ecological and Cultural Systems of Coastlines*, Academic Press, London.
- Dale, P. (1991) *Managing Australian Coastlines*, Longman Cheshire Pty Ltd, Melbourne.
- Manuel, M., McElroy, B. and Smith, R. (1995) *Coastal Conflicts*, Cambridge University Press, Melbourne.
- Moffatt, B. (1992) *Marine Studies*, Wet Paper Publications, Southport
- NSW Government (1992) *Estuary Management Manual*, NSW Government, Sydney.
- NSW Public Works Department and Soil Conservation Service (1986) *Beach Dunes: Their Use and Management*, Sydney.
- Raffaelli, D. And Hawkins, S. (1994) *Intertidal Ecology*, Chapman and Hall, London.
- Underwood, A.J. and Chapman M.G. (1993) *Seashores: A Beachcomber's Guide*, New South Wales University Press, Kensington.
- Underwood, A.J. and Chapman, M.G. (1994) *Coastal Marine Ecology of Temperate Australia*, UNSW Press.
- *Our Sea, Our Future: Major Findings of the State of the Marine Environment Report for Australia*. Department of the Environment, Sport and Territories, Canberra, 1995.