

GEOGRAPHY YEARS 9 - 10

Australian Environments Fieldtrip

Stage 5 CEC Sample Fieldtrip

Starting at Collaroy and Long Reef Beaches



Student Outcomes Students will learn to:

- 5.6 Explain the geographic processes that form & transform coastal environments.
- Compare a natural dune system with a highly developed dune system.
 - Investigate the coastal development issue on Collaroy Beach.
 - Develop geography skills to observe, measure, record & interpret primary data.

Sample Australian Environments Coastal Fieldtrip Program and suggested times.

- 09:30 **Arrive at Collaroy Beach.** Welcome and brief introduction of today's fieldtrip by CEC Educators. Walk out onto the beach and identify and describe the coastal processes that are shaping this site. Examine the development built on the active beach zone, explain why property is at risk and describe the strategies to manage this difficult and expensive coastal issue.
- 10:30 Walk south to Collaroy SLSC for a brief morning tea, for the 4-5 hour program, shade and toilet facilities nearby but there isn't any access to shops. After ~ 15 minutes board your bus and travel 7 minutes south.
- 11:00 On **Long Reef Headland** all groups rotate through the following site investigations:
- Field sketch of DY catchment and beach. Label coastal landforms and apply 'BOLTS'.
 - Interpret the CEC Resources of aerial photographs and their topographic field map.
 - Measure and record: wind direction; strength; temperature; identify the cloud and vegetation types.
 - Observe wave refraction and the exotic species present if time.
- Walk down to **Long Reef Beach**, and discuss how Rock Platforms develop. Sketch and explain why the two headlands and rock platforms are so different. On the beach, compare the coastal processes, identify a rip and areas of dune erosion and accretion.
- 13:00 Lunch break at Long Reef SLSC, shade and toilets nearby. After lunch students may use the CEC's colour resource to identify dune plants. They will describe why this environment is a difficult place for plant to grow and solve the Spinifex riddle. If time, they can record vegetation and sediment changes over the dune and compare this natural dune to the developed dune at Collaroy.
- 14:15 Conclude a great fieldtrip, return CEC equipment. **Depart Long Reef** Beach SLSC carpark.

Please note: This is an enjoyable and productive fieldtrip. Groups of more than 90 will be split into 2 or 3 northbound and 2 or 3 southbound groups so as to avoid congestion at each site. We can fit in with your bus times and will provide detailed bus directions when booking. Local students may meet their teachers for roll call on site and walk through without bus transport. A fieldtrip booklet pdf will be emailed to the organising teacher.



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Coastal
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Narrabeen