

## Coastal Environmental Change & Management Fieldtrip

### Stage 5 Sample CEC Fieldtrip

Starting at either Collaroy or Long Reef Beaches, students will learn to:

- GE5-2 Explain the processes that form and transform coastal environments.
- GE5-5 Assess management strategies of coastal environments for their sustainability.
- GE5-7 Acquire and process geographical information by selecting and using appropriate and relevant geographical tools for inquiry.



### Long Reef Beach Biophysical Processes Session

Meet your CEC Educators at ~ 10am at Long Reef Beach and divide into smaller class groups, each with a supervising teacher. Students investigate the biophysical processes that have formed the Long Reef coastal environment. They select and use appropriate geographic tools to measure and record current atmospheric conditions. They observe and record current hydrographic conditions and then explain how these influences are transforming the beach in front of them. Students collect a sediment samples and identify the vegetation, then use their primary data to explain how the biophysical processes have formed this coastal dune. Students identify the environmental services and management strategies of this coastal dune and assess this place for its competing threats and environmental sustainability. Groups can enjoy a brief lunch break where shade and toilets are nearby, before travelling south to Collaroy.

### Collaroy Beach Environmental Change and Management Session

Students investigate the causes and extent of development at Collaroy Beach which has the most development at risk in New South Wales and was extensively eroded in June 2016. They will collect primary data by sketching the development along the beach, taking photographs and recording beach width from Collaroy SLSC to Ramsay Street. They will list the biophysical and atmospheric conditions that combined to erode the beach in 2016 and describe the current management strategies by the Northern Beaches Council. Finally students will compare the environmental services, management strategies and sustainability of this place to Long Reef Beach. Year 9 or 10 groups of more than 90 students can start at both Long Reef and Collaroy Beaches, maximum group size 180. Depart ~ 2pm.

### Optional Coastal Headlands or CEC assisted student Research Action Plan



For a five hour or longer fieldtrip, students may also assess the environmental change and management of Long Reef Headland. Another option is that CEC Educators can assist your students in the collection of primary data for their RAP. The CEC has a draft RAP based on this fieldtrip that teachers can adapt for their students.

We will fit in with your bus requirements for the 4 to 6 hour (\$22) fieldtrip. CEC Educators lead each class and provide all equipment.



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