91429R



## Level 3 Geography, 2014

91429 Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills

9.30 am Monday 24 November 2014 Credits: Four

## RESOURCE BOOKLET

Refer to this booklet to answer the questions for Geography 91429.

Check that this booklet has pages 2–12 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

For copyright reasons, the resources in this booklet cannot be reproduced here.

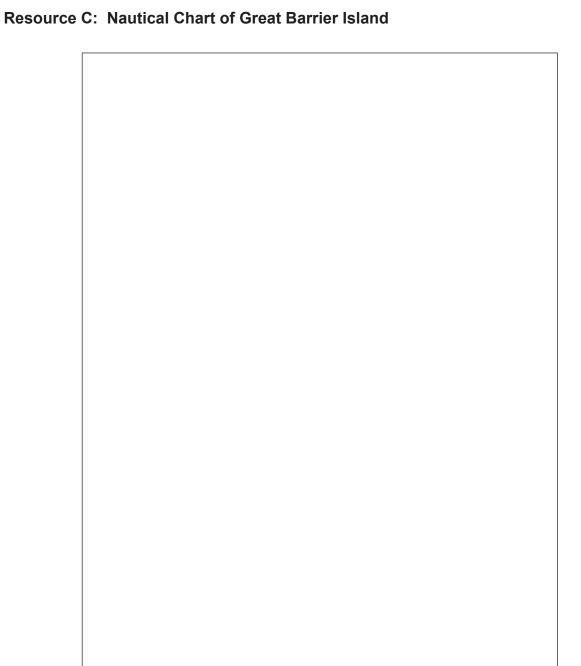
This page has been deliberately left blank. The resources continue on the following page.

## THE ENVIRONMENT OF GREAT BARRIER ISLAND

## **Resource A: Great Barrier Island's Location**

Great Barrier Island is situated off the top of the Coromandel Peninsula, and is 90 km north-east of downtown Auckland.				
Great Barrier Islaı	nd is approximately 3°C warmer than Auckland on average.			
	Great Barrier Island			

Resource B: Great Barrier Island and the Hauraki Gulf



Resource D: Topographical Map of Great Barrier Island (Extract)



## THE CHANGING ENVIRONMENT OF GREAT BARRIER ISLAND

Resource E: Actual and Estimated Population Statistics (Auckland Region and Great Barrier Island, 2006–2031)

	2006	2011	2016*	2021*	2026*	2031*
Auckland Region						
<b>Great Barrier Island</b>						
Note: *Estimated projections by Statistics New Zealand.						

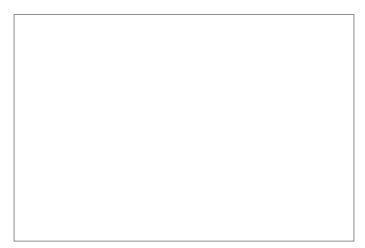
	hold Income Stat Great Barrier Isla	
	ics for People Aq jion and Great Ba	

# Resource H: Households' Access to Technology-Comparison (Auckland Region and Great Barrier Island, 2006 Census)

	Auckland Region (%)	Great Barrier Island (%)
No access		
Cellphone		
Telephone		
Fax machine		
Internet		

### PERSPECTIVES AND VIEWPOINTS ABOUT GREAT BARRIER ISLAND





## Resource J: Ferry Timetable between Auckland and Great Barrier Island

Sealink's ferry, *The Island Navigator*, carries cars, passengers, and freight to Great Barrier Island. It departs from Auckland's Wynyard Wharf, three times a week in winter, and more frequently in summer. Sailings take approximately 2.5 hours to get to Tryphena, the southernmost port of the island.

DATE		DEPART AUCKLAND	DEPART TRYPHENA	DEPART FITZROY
January 2014				
Thursday	9 January	8.30 am	1.30 pm	11.30 am
Friday	10 January	6.00 pm	8.30 pm	
Sunday	12 January	1.30 pm	4.30 pm	
Wednesday	15 January	8.30 am	11.30 am	
Friday	17 January	6.00 pm	8.30 pm	
Sunday	19 January	2.30 pm	5.30 pm	
Friday	24 January	6.00 pm	8.30 pm	
Monday	27 January	1.30 pm	4.30 pm	
Easter 2014				
Thursday	17 April	6.00 pm	8.30 pm	
Monday	21 April	1.30 pm	4.30 pm	

**Resource K: Mining on Conservation Land Perspectives** 

#### Resource L: Economy of Great Barrier Island

Large areas used for hiking, tramping, mountain biking.

Auckland Council planning includes initiatives to seal all major roads, develop walkways, seal the airfield at Okiwi, and upgrade the Shoal Bay Wharf.

Diving, snorkelling, and fishing around coastline brings tourists.

It is estimated that around 80 000 people visit Great Barrier Island each year. This includes the peak number of visitors in summer, consisting of holiday home owners and their visitors arriving by plane and boat, as well as private boat occupants anchoring off the island. This estimate compares with that of 60-70 000 visitors to the island in 1992, suggesting average annual growth of as little as 1.0 % over the past 14 years.

Area of potential land for mining (705 ha).

Habitat for native
Shrub Daisy (in serious decline).
Area of regenerating scrublands.
Remnant broadleaf forest.

\$4.3 billion potential income from mining gold and silver deposits on the Te Ahumata Plateau. Locally referred to as White Cliffs due to the magnificent white bluffs on its north-east face. White Cliffs was mined before World War I, with giant battery rams crushing rocks with such clamour that it could be heard in the Coromandel, across more than 20 km of ocean. Cores of silver six inches (15 cm) in diameter and a metre long were pulled out of the ground.

Popular surf beach. 75 % of visitors come from Auckland, and 25 % from other areas (including 5 % from overseas). Activity is seasonal, consisting of a short peak around Christmas.

Day trippers and people staying on their own boat tend not to be regarded as tourists by the locals, as they add little money to the local economy.

#### **ACKNOWLEDGEMENTS**

Material from the following sources has been adapted for use in this examination.

#### Page(s) Source

#### 3 Resource A:

Text: http://stateofauckland.aucklandcouncil.govt.nz/demographic-report-card/great-barrier-local-board-2013/, accessed 3 March 2014.

Image: http://upload.wikimedia.org/wikipedia/commons/2/21/New\_Zealand\_location\_map. svg, accessed 3 March 2014.

#### 4 Resource B:

http://www.thebarrier.co.nz/maphaurakigulf.htm, accessed 4 July 2014.

#### 5 Resource C:

http://www.classicboatsnewzealand.com/?\_escaped\_fragment\_=a-map-of-great-barrier-island/zoom/c23m/image11iy, accessed 4 July 2014.

#### 6 and 7 Resource D:

Topo50 Map Series (NZTopo50-AY34 Claris)

#### 8 Resource E:

http://www.stats.govt.nz/and http://nzdotstat.stats.govt.nz/wbos/Index.aspx#, accessed 3 March 2014.

#### Resource F:

http://www.aucklandcouncil.govt.nz/EN/AboutCouncil/representativesbodies/LocalBoards/Documents/greatbarrierlocalboardplan.pdf, p 30, accessed 3 March 2014.

#### Resource G:

http://www.stats.govt.nz/Census/2006CensusHomePage/QuickStats/AboutAPlace/SnapShot.aspx?type=au&ParentID=1000002&ss=y&tab=Income&id=3521000#, accessed 2 May 2014.

#### 9 Resource H:

http://www.stats.govt.nz/Census/2006CensusHomePage/QuickStats/AboutAPlace/SnapShot.aspx?type=au&ParentID=1000002&ss=y&tab=Income&id=3521000#, accessed 3 March 2014.

#### 10 Resource I:

http://xmb.stuffucanuse.com/xmb/viewthread.php?tid=105, accessed 3 March 2014.

#### Resource J:

http://www.greatbarrierislandtourism.co.nz/wp-content/uploads/2013/09/Standard-Summer-Timetable-2013-2014.pdf, accessed 3 March 2014.

#### Resource K:

http://www.watchdog.org.nz/coromandel-gives-newmont-message-no-more-mining/schedule-4/, accessed 3 March 2014.

#### 11 Resource L:

http://www.consumer.org.nz/reports/mining-on-doc-land/maps-of-affected-areas, http://www.aucklandcity.govt.nz/council/documents/hgi/docs/hgi32economicgbi.pdf, and http://www.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/annual\_plan/Documents/annualplan1314lbagreementgreatbarrier.pdf, accessed 20 March 2014.