

93401R



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

Scholarship 2006 Geography

2.00 pm Saturday 2 December 2006

RESOURCE BOOKLET

Lessons from the Past, Planning for the Future

Refer to this booklet to answer the questions for Scholarship Geography 93401.

Check that this booklet has pages 2–16 in the correct order and that none of these pages is blank.

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

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EASTER ISLAND

Guide-book Notes

Names: Polynesian name – Rapa Nui; official Spanish name – Isla de Pascua.

Size and location: Small, isolated, triangular-shaped island. 170 sq km in area, located 27°S, 109°W in the South Pacific Ocean. Nearest large land mass, South America, is about 4000 km (4–5 hours flying time) to the east. A territory of Chile.

Topography and geology: Volcanic island with large dormant volcanoes in the northern, south-western and eastern corners. Largest, highest (506 m), and youngest of the three volcanoes is Terevaka, the northernmost one. It erupted around 200 000 years ago. Its lava now covers 95% of the island's land surface. Apart from the steep-sided volcanic craters and cinder cones, most of the island is gently sloping, with fertile volcanic soils.

Climate: Subtropical, maritime, and humid. Rainfall total 1300 mm per year. Minimum temperature 10°C in winter, maximum 27°C in summer – cooler and drier than most of tropical Polynesia. Fresh water often in short supply on the surface because of the low rainfall and the porous volcanic soils.

Land surface features: A land of *ahu* (stone platforms), *moai* (stone statues), volcanoes, and coastal cliffs.

Population today: 3800 – most live in the only settlement, Hanga Roa.

Easter Island – Photos and Maps

Location of Easter Island in Pacific Ocean, *Nelles Maps: South Pacific Islands*

Location of Easter Island in the South Pacific

www.tripsource.com/images/photos/Rod/RodEaster_Island_Finals/Easter_Island_Gallery.htm

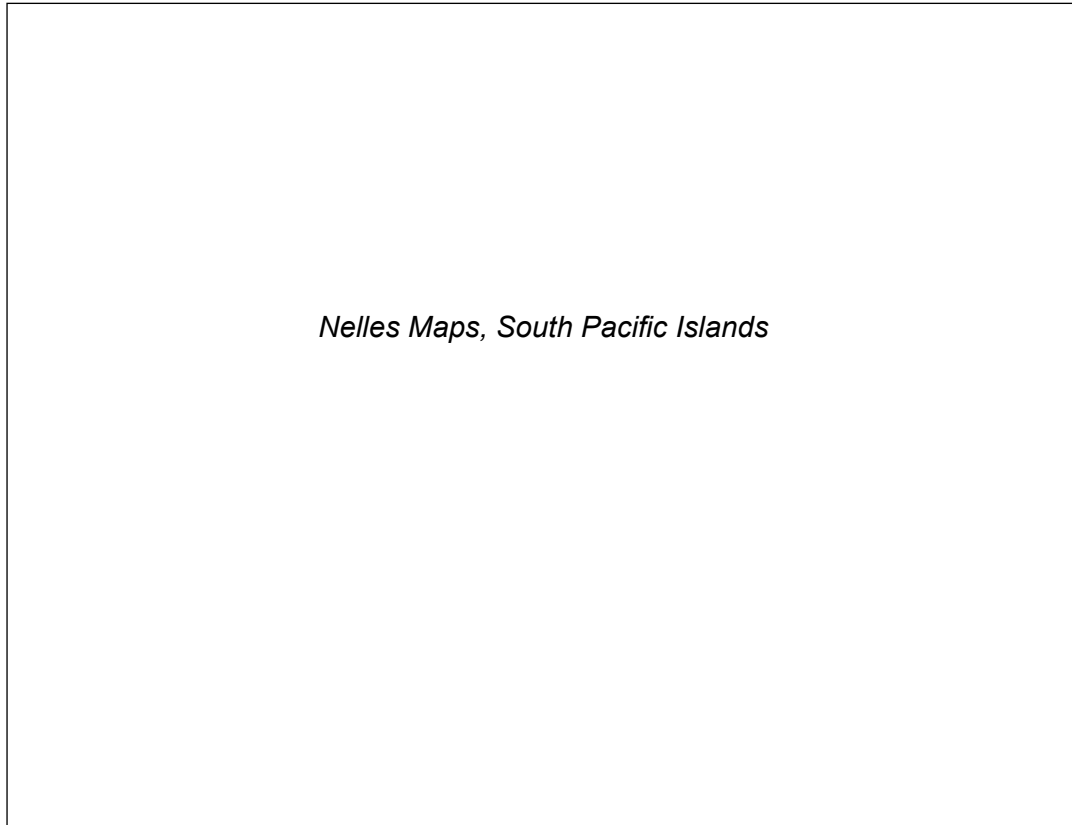
Tongariki – restored *ahu* and *moai* site

Rano Raraku crater – *moai* quarry site

www.enjoy-chile.org/easter-island-chile.php

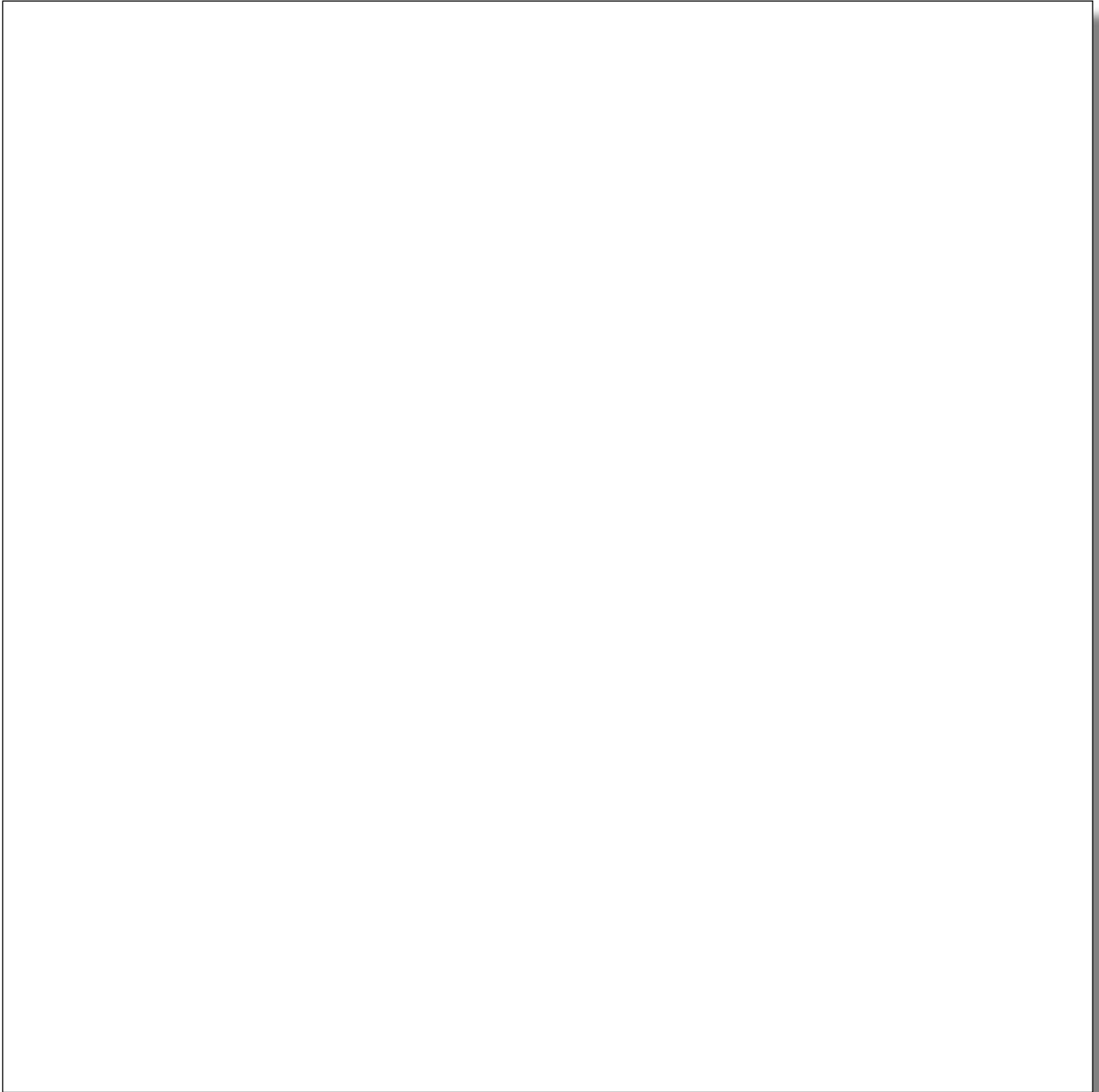
www.caleuche.com/Chile/RapaNui_en.htm

The coast of Easter Island today – a treeless landscape

Easter Island – General Map**Legend****Easter Island – Topographic Map (detail)****Legend**

Easter Island – View 1: ‘The Mystery of Easter Island’

Adapted from the BBC TV Horizon documentary ‘The Mystery of Easter Island’ programme notes, and the book *A Short History of Progress* by Ronald Wright.



Easter Island – View 2: Twilight at Easter

Adapted from the book *Collapse*, by Jared Diamond (Professor of Geography and Environmental Health Sciences at UCLA, California) and an interview with Jared Diamond in the *Sunday Star-Times*, June 2005.

Easter Island – View 3

Extract from Gregg Easterbrook's review of Jared Diamond's book, *Collapse* (from the *New York Times* book reviews: Jan 2005).

ARCTIC NATIONAL WILDLIFE REFUGE (ANWR)

Overview

- 1960** US president Eisenhower created the Arctic National Wildlife Range in Alaska.
- 1967** Oil discovered just west of the Wildlife Range at Prudhoe Bay: conflict between oil and wilderness in the north of Alaska began.
- 1980** President Carter signed legislation that doubled the size of the Wildlife Range, gave it wilderness status, and renamed the area the Arctic National Wildlife Refuge (ANWR). He also set aside 1.5 million acres of coastal plain (the 1002 area) for possible oil exploration.
- 1987** The Department of the Interior recommended full-scale oil development in the 1002 area.

1987–2005 Debate about developing the ANWR oilfields has raged.

A report just released by the National Research Council is likely to help both sides make a case for or against oil development in ANWR. The report, based on studies of the effects of 30 years of oil and gas drilling along the Alaska North Slope, cites case after case of negative impacts of drilling – from how the extensive network of roads has harmed the tundra and associated wildlife, to how noise has displaced migrations of bowhead whales, forcing subsistence hunters farther out to sea. At the same time, however, the report noted that industry has made great improvements in using technology to reduce environmental impacts.

Although the report itself does not address ANWR, it did say that oil exploration involves unavoidable environmental impacts. “Whether the benefits derived from oil and gas activities justify the acceptance of the inevitable accumulated undesirable effects that have accompanied and will accompany them, is an issue for society as a whole to debate and judge,” the report said.

The 1002 area of ANWR – looking inland across ANWR from the proposed coastal plain development area in the foreground to the Brooks Range in the background.

canada.usembassy.gov/content/can_usa/images/anwr.jpg

canada.usembassy.gov/content/can_usa/images/anwr.jpg

ANWR: Oil Field or Sanctuary?

Adapted from articles in *National Geographic*, August 2001, by John G. Mitchell, and *National Geographic*, May 2006, by Joel K. Bourne

Arctic National Wildlife Refuge Page: www.guardian.co.uk/flash/0,,534962.html

ANWR – National Geographic Map

http://www7.nationalgeographic.com/ngm/data/2001/08/01/html/mp_20010801.3.html

ANWR – View 1: The Alliance for Energy and Economic Growth (AEEG)

<http://www.anwr.org/features/pdfs/AEEGLTR%20OpenANWR.pdf>

**ANWR – View 2: Environment action group Natural Resources Defence Council (NRDC):
Anti-ANWR campaign poster**

http://www.savebiogems.org/images/arctic/map/arcticmap_2000acres.pdf

ANWR – View 3**A View From the Inside of the Arctic National Wildlife Refuge**

Cathy Rexford, IAIA Chronicle 2005,

<http://www.iaiachronicle.org/archives/viewfromtheinside2005.htm>

City of Kaktovik – ANWR Survey

<http://www.anwr.org/features/kaktovik.htm>

ANWR – Different Views

Ed Stein cartoon:
<http://cagle.msnbc.com/news/ANWR/6.asp>

00-anwr-protest-kid.jpg
www.jadedthea.com

**Environmentalists fear that
oil drilling in ANWR will
harm animals that live there.**

Cartoon Date: 17/03/2005
[http://www.cagle.com/politicalcartoons/pccartoons/
archives/rogers.asp?Action=GetImage](http://www.cagle.com/politicalcartoons/pccartoons/archives/rogers.asp?Action=GetImage)

Oil company tote bag logo:
[www.alaskaroads.com/
photos-Dalton-Hwy-page3.
htm](http://www.alaskaroads.com/photos-Dalton-Hwy-page3.htm)