

**B O A R D O F S T U D I E S**  
NEW SOUTH WALES

**2007**

**HIGHER SCHOOL CERTIFICATE  
EXAMINATION**

# Geography

## General Instructions

- Reading time – 5 minutes
- Working time – 3 hours
- Write using black or blue pen
- Board-approved calculators may be used
- A Stimulus Booklet is provided with this paper
- Write your Centre Number and Student Number at the top of pages 9, 11 and 15

## Total marks – 100

**Section I** Pages 2–5

### 15 marks

- Attempt Questions 1–15
- Allow about 25 minutes for this section

**Section II** Pages 9–15

### 25 marks

- Attempt Questions 16–18
- Allow about 45 minutes for this section

**Section III** Page 17

### 60 marks

- Attempt Questions 19–21
- Allow about 1 hour and 50 minutes for this section

## Section I

**15 marks**

**Attempt Questions 1–15**

**Allow about 25 minutes for this section**

**Refer to the Stimulus Booklet**

Use the multiple-choice answer sheet for Questions 1–15.

---

Refer to Source A to answer Questions 1 and 2.

- 1** What is the name of this type of map?
  - (A) Cadastral
  - (B) Choropleth
  - (C) Isopleth
  - (D) Precis
  
- 2** Which of these suburbs had the lowest population density in 2001?
  - (A) Maple Ridge
  - (B) Port Coquitlam
  - (C) Richmond
  - (D) Vancouver

Refer to Source B to answer Question 3.

- 3** Which regions, ranked in descending order, provided the greatest number of immigrants to Canada in 2001?
  - (A) Eastern Asia, South East Asia, Southern Asia
  - (B) Eastern Asia, United Kingdom, Southern Asia
  - (C) Eastern Europe, Southern Asia, South East Asia
  - (D) South East Asia, Southern Europe, Eastern Asia

Refer to Source C to answer Question 4.

- 4** Approximately what percentage of immigrants to Vancouver came from Eastern Asia in 2001?
- (A) 13%
  - (B) 26%
  - (C) 31%
  - (D) 36%

Refer to Source D to answer Questions 5–7.

- 5** What is the bearing of Hood Point (GR 278174) from Point Atkinson (GR 281164)?
- (A) 18°
  - (B) 162°
  - (C) 198°
  - (D) 342°
- 6** What is the general direction of flow of Sisters Creek in AR 2817?
- (A) NNE
  - (B) NNW
  - (C) SSE
  - (D) SSW
- 7** What is the average gradient between Hollyburn Mountain (GR 286173) and the navigation light (GR 306165)?
- (A) 1:1.8
  - (B) 1:2.3
  - (C) 1:4.6
  - (D) 1:5.2

Refer to Source E to answer Questions 8 and 9.

- 8** What is the approximate area, in square kilometres, of Stanley Park, north of Northing 60?
- (A) 0.75
  - (B) 2.5
  - (C) 3.5
  - (D) 4.75
- 9** What is the shortest distance, in kilometres, by road from the Sportsplex (AR 9264) to the hospital (AR 9562)?
- (A) 3.2
  - (B) 4.2
  - (C) 5.2
  - (D) 6.2

Refer to Sources E and F to answer Questions 10 and 11.

- 10** What is the location of the building labelled **A**?
- (A) GR 920594
  - (B) GR 922593
  - (C) GR 937592
  - (D) GR 951595
- 11** In what direction was the photographer facing when the photograph in Source F was taken?
- (A) NE
  - (B) NW
  - (C) SE
  - (D) SW

Refer to Sources E and G to answer Question 12.

**12** At approximately what time of day was this photograph taken?

- (A) 9 am
- (B) 12 noon
- (C) 3 pm
- (D) 7 pm

Refer to Sources H, I and J to answer Question 13.

**13** What is the average January temperature in the tundra?

- (A) Between  $0^{\circ}\text{C}$  and  $8^{\circ}\text{C}$
- (B) Between  $-8^{\circ}\text{C}$  and  $0^{\circ}\text{C}$
- (C) Between  $-24^{\circ}\text{C}$  and  $-16^{\circ}\text{C}$
- (D) Between  $-40^{\circ}\text{C}$  and  $-24^{\circ}\text{C}$

Refer to Sources I and J to answer Question 14.

**14** What vegetation is found at the Arctic Circle?

- (A) Hemlock
- (B) Mosses
- (C) Oak
- (D) Pines

Refer to Sources H, I, K and L to answer Question 15.

**15** Which of the following explains the difference in precipitation patterns between Vancouver and Saskatoon?

- (A) Vancouver is higher in elevation.
- (B) Saskatoon is located inland and at a lower latitude.
- (C) Saskatoon is influenced by high pressure cells in July.
- (D) Vancouver is a coastal city and experiences orographic precipitation.

BLANK PAGE

BLANK PAGE

BLANK PAGE



# Geography

--	--	--	--	--

Centre Number

## Section II

--	--	--	--	--	--	--	--	--	--

Student Number

25 marks

Attempt Questions 16–18

Allow about 45 minutes for this section

Use the Stimulus Booklet and your knowledge of geography to answer Questions 16–18 in the spaces provided.

**Marks**

### Question 16 (8 marks)

Refer to Source D on page 2 of the Stimulus Booklet to answer parts (a)–(b).

- (a) Name and locate an ecosystem that could be investigated using fieldwork. **2**

.....

.....

- (b) Formulate a geographical question to investigate the ecosystem identified in part (a) and state TWO primary sources that could be used to collect relevant data. **3**

.....

.....

.....

.....

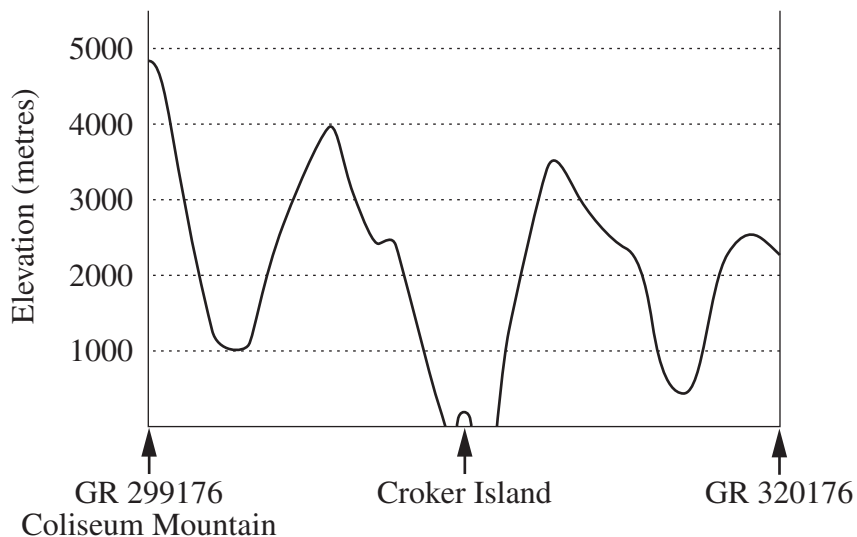
.....

.....

**Question 16 continues on page 10**

Question 16 (continued)

Refer to Source D on page 2 of the Stimulus Booklet and this cross-section to answer parts (c)–(d).



- (c) Calculate the vertical exaggeration of the cross-section. 1

.....  
.....

- (d) Name a water source which would be suitable as part of Vancouver’s water supply. Justify your answer. 2

.....  
.....  
.....  
.....

**End of Question 16**

# Geography

--	--	--	--	--

Centre Number

## Section II (continued)

--	--	--	--	--	--	--	--	--

Student Number

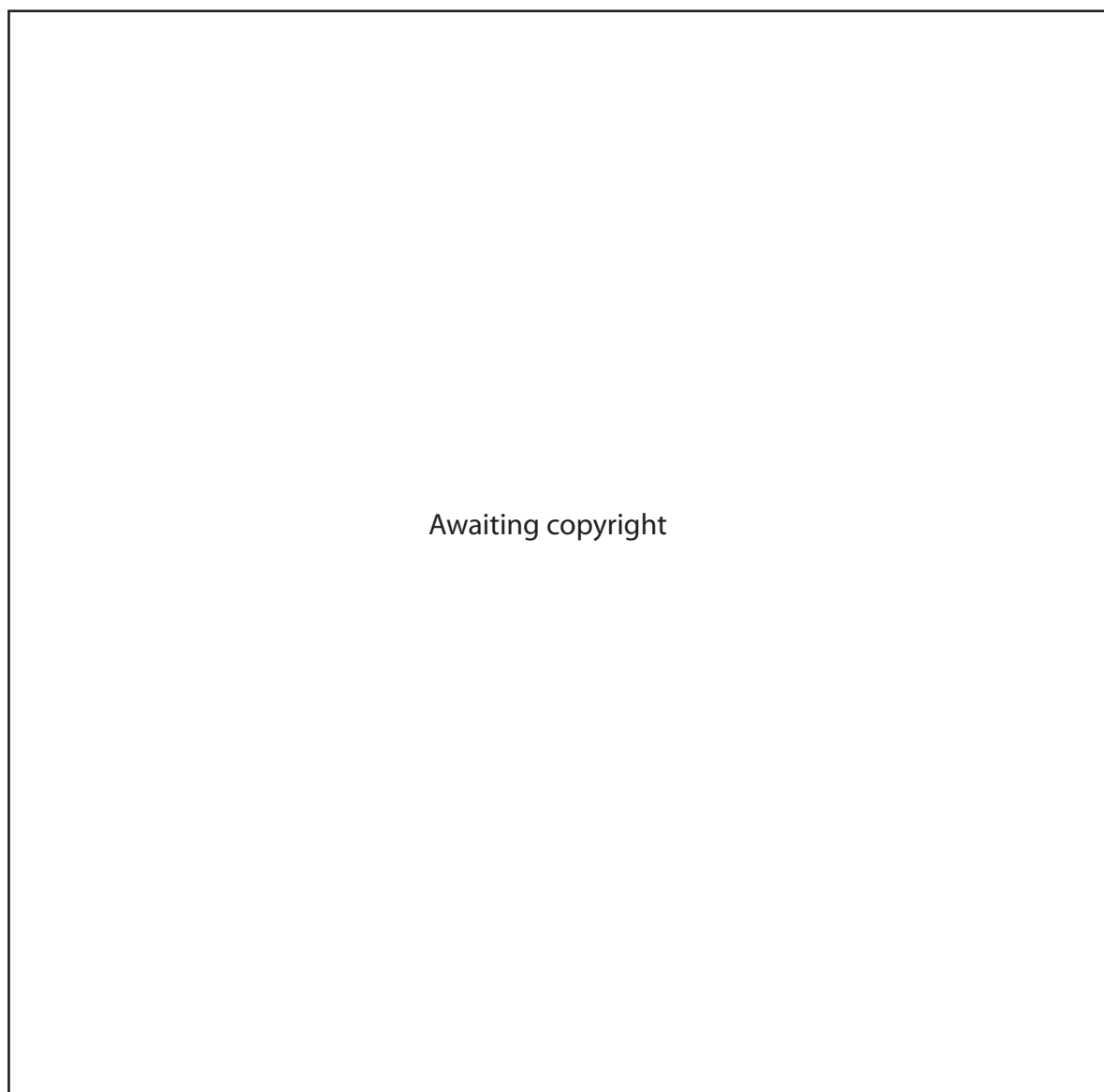
---

### Question 17 (9 marks)

**Please turn over**

**Question 17** (9 marks)

Refer to the ternary graph to answer parts (a) and (b).



(a) Which ethnic group comprised the greatest percentage of Montreal's population in 1971? **1**

.....

(b) How does the ethnic pattern of Montreal's population differ from that of the industrial cities of Ontario and Western Canada? **1**

.....  
.....

**Question 17 continues on page 13**

Question 17 (continued)

Refer to Sources B and C on page 1 of the Stimulus Booklet to answer part (c).

- (c) Use statistics to demonstrate how immigration to Canada and Vancouver differed in 2001. **2**

.....

.....

.....

.....

- (d) What is a *world city*? Explain why world cities, such as Vancouver, are economically and culturally important. **5**

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

**End of Question 17**

BLANK PAGE

# Geography

--	--	--	--	--

Centre Number

## Section II (continued)

--	--	--	--	--	--	--	--	--	--

Student Number

**Marks**

### Question 18 (8 marks)

Refer to Source E on page 3 of the Stimulus Booklet to answer parts (a)–(d).

- (a) Identify an economic enterprise operating in Vancouver. **1**

.....

.....

- (b) State the location of this economic enterprise. **1**

.....

.....

- (c) State TWO locational factors for this economic enterprise. **2**

.....

.....

.....

.....

- (d) Outline possible human impacts on the biophysical environment of the economic enterprise identified in part (a). **4**

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

BLANK PAGE



# Geography

## Section III

**60 marks**

**Attempt Questions 19–21**

**Allow about 1 hour and 50 minutes for this section**

Answer each question in a SEPARATE writing booklet. Extra writing booklets are available.

---

In your answers you will be assessed on how well you:

- present a sustained, logical and well-structured answer to the question
  - communicate geographical information, ideas and issues
  - refer to appropriate case studies, illustrative examples and the Stimulus Booklet where appropriate
- 

### **Question 19** (20 marks)

Evaluate the impacts of, and responses of people to, environmental change, with reference to at least ONE ecosystem at risk.

### **Question 20** (20 marks)

Critically analyse ONE urban dynamic of change operating in a country town OR suburb.

### **Question 21** (20 marks)

Describe the nature and spatial patterns of a global economic activity and predict its likely future directions. Justify your predictions.

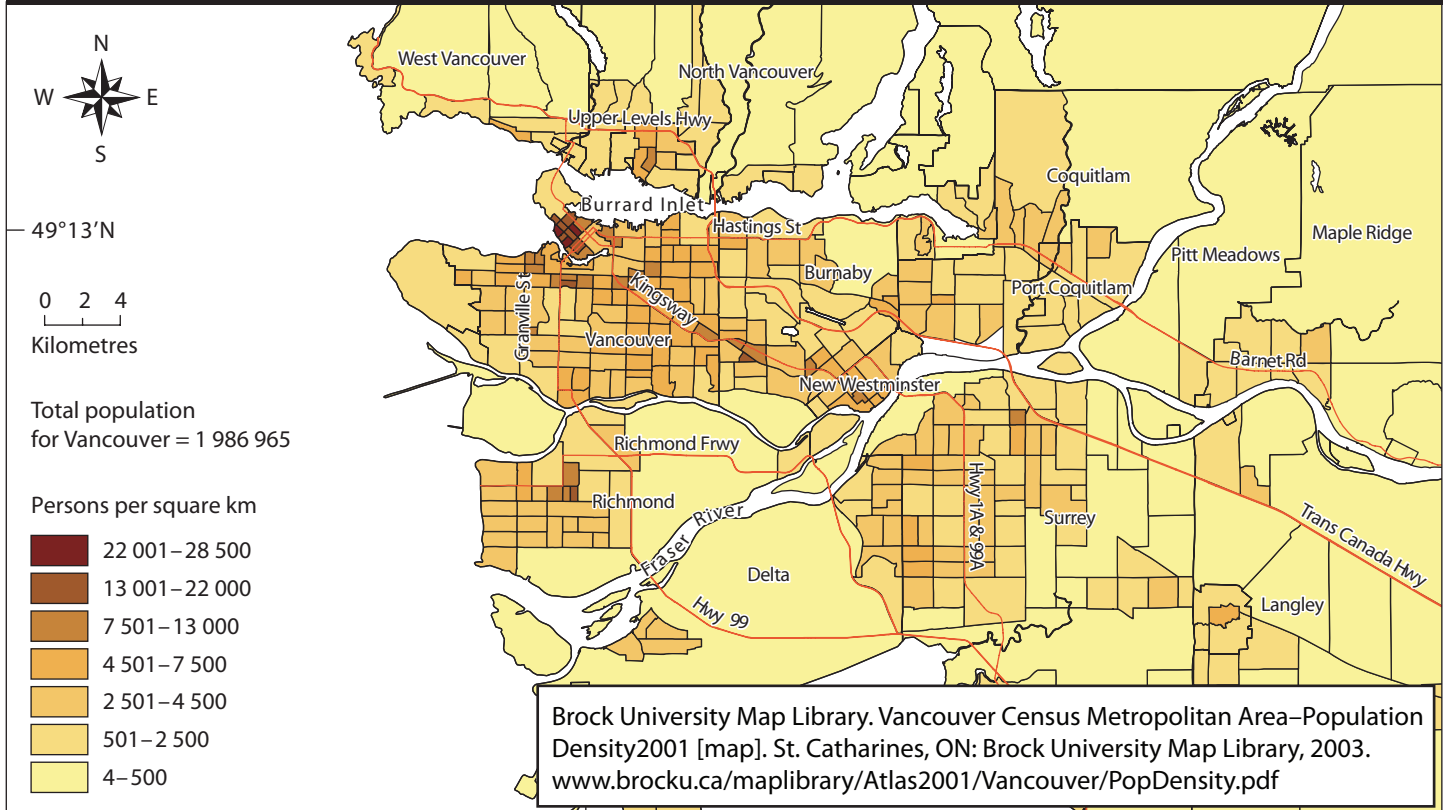
**End of paper**

BLANK PAGE

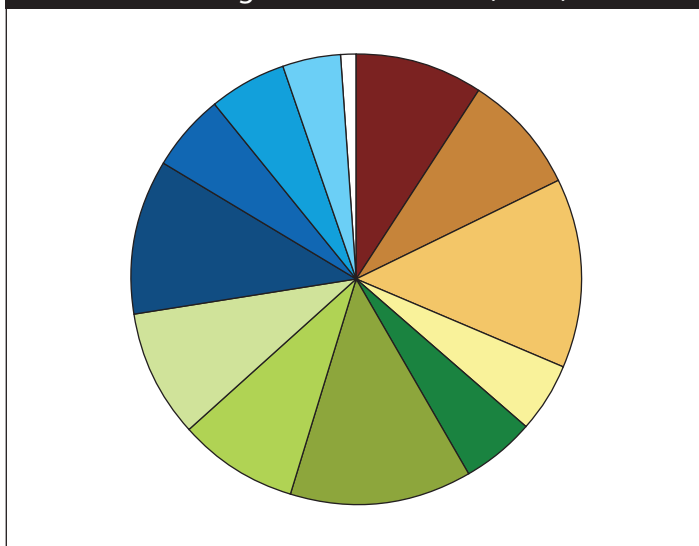
# Geography

## Stimulus Booklet

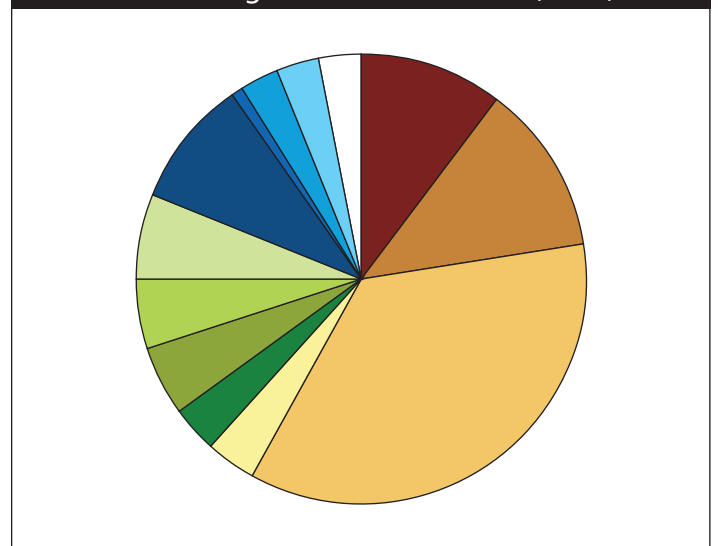
Source A – Vancouver (Canada) population density (2001)



Source B – Immigration to Canada (2001)



Source C – Immigration to Vancouver (2001)

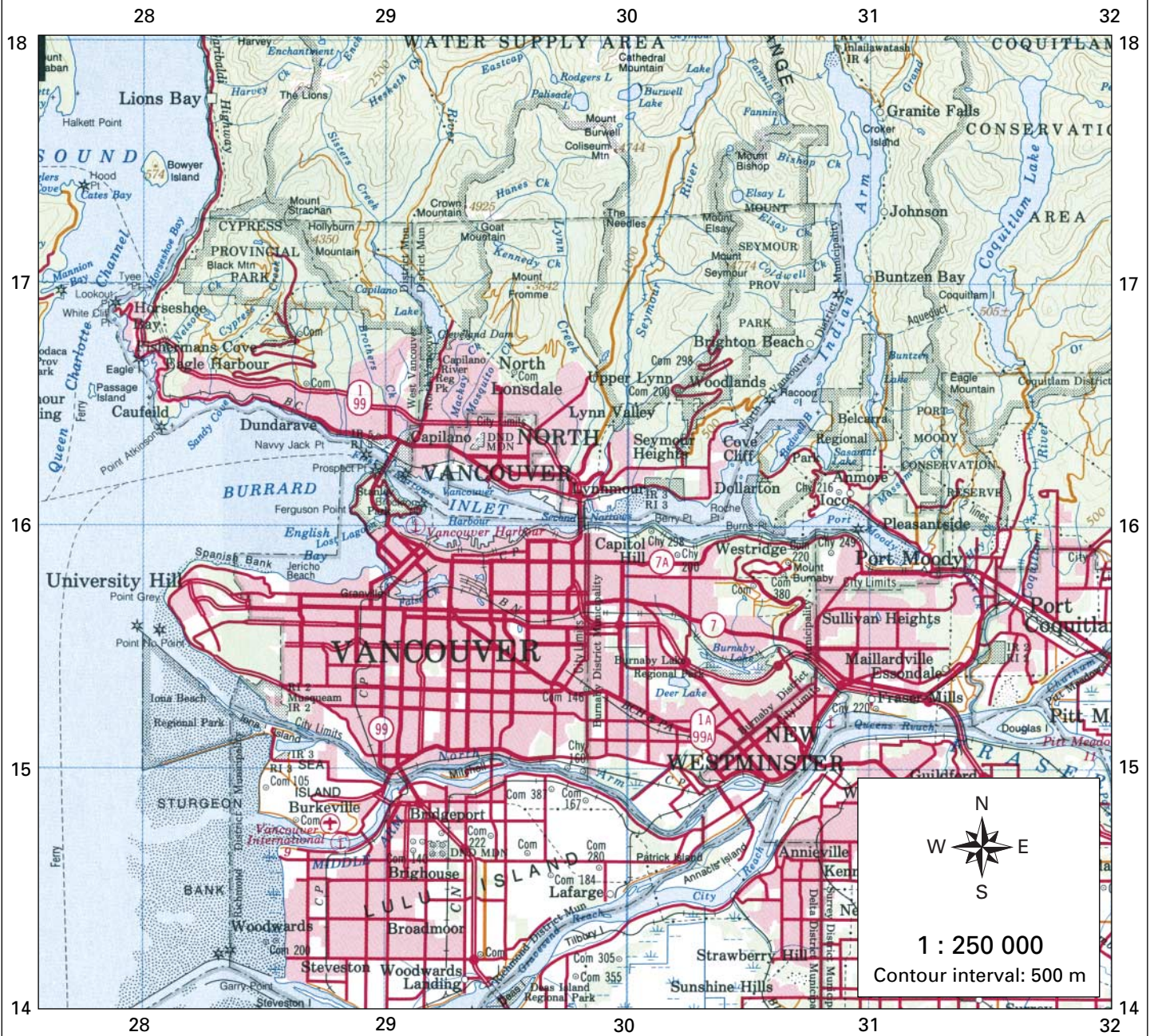


Statistics Canada information is used with the permission of Statistics Canada. [www.statcan.ca](http://www.statcan.ca)

Regions for Sources B and C



# Source D – Vancouver topographic map (1986)



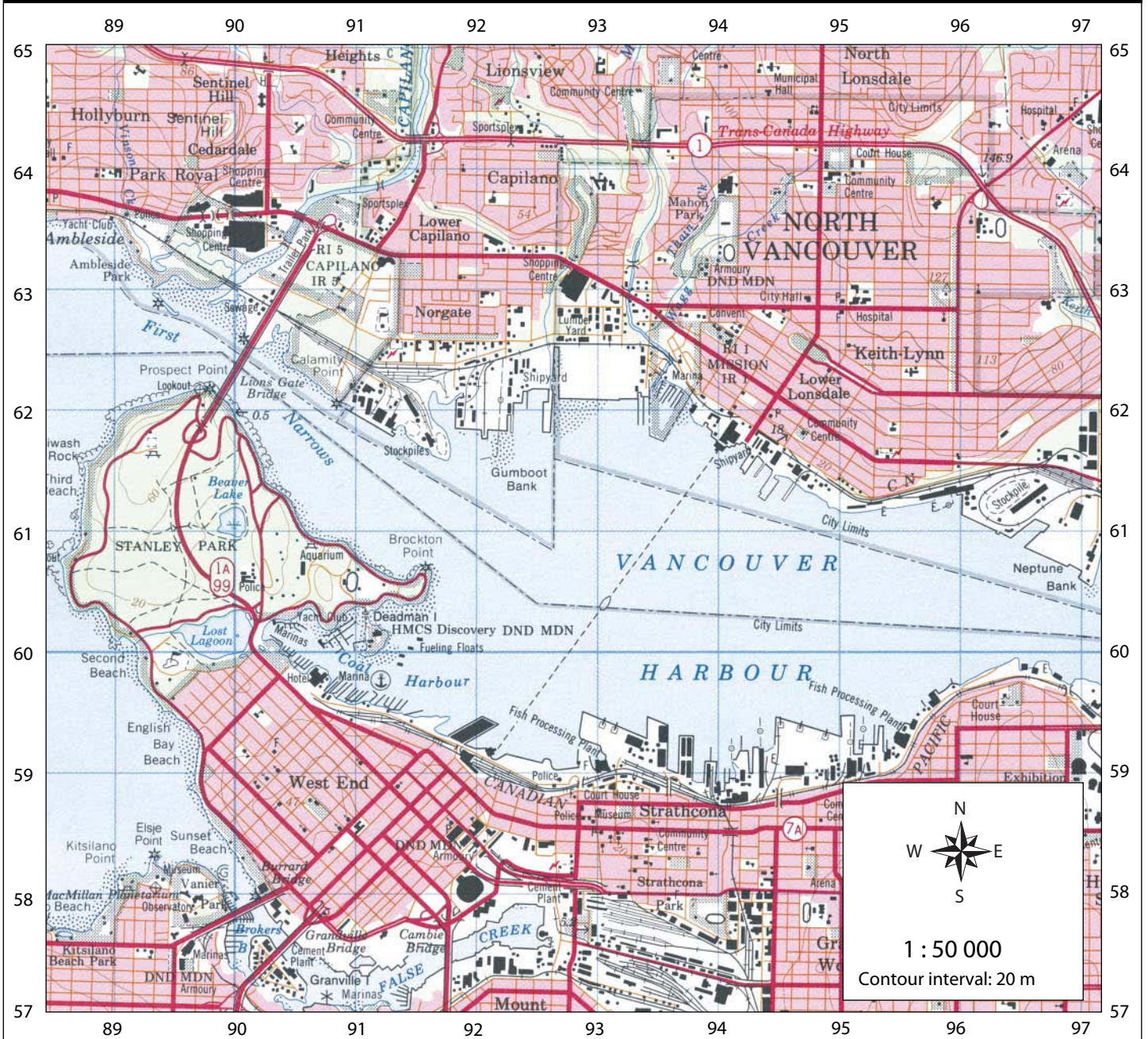
# Source F – Vancouver Harbour



## Key for Sources D and E

City or municipality boundary	.....
Reserve, park, etc boundary	.....
Horizontal control point	△
Spot elevation	+ 2520
Marsh or swamp	~ ~ ~
Falls; rapids	~ ~ ~
Foreshore flats	~ ~ ~
Rocks; rocky ledge, rocky reef	~ ~ ~
Wharf; breakwater, pier; seawall	~ ~ ~
Ferry slip; dry dock; ramp	~ ~ ~
Wooded area	~ ~ ~
Contours	~ ~ ~
Ferry	~ ~ ~
Navigation light	~ ~ ~
Seaplane base; seaplane anchorage	~ ~ ~
Vessel anchorage: large, small	~ ~ ~

Source E – Vancouver topographic map (1986)



Dual highway	
Road, hard surface, more than 2 lanes	
Road, hard surface, 2 lanes	
Road, hard surface, less than 2 lanes	
Road, loose or stabilised surface	
Trail	
Railway, single track; multiple track	
Railway station; bridge	
House; large building	
Church; school	
Post office; telegraph office	
Elevator; tower	
Cemetery; historic site	
Power transmission line	
Campsite; picnic site	
Retaining wall: small	

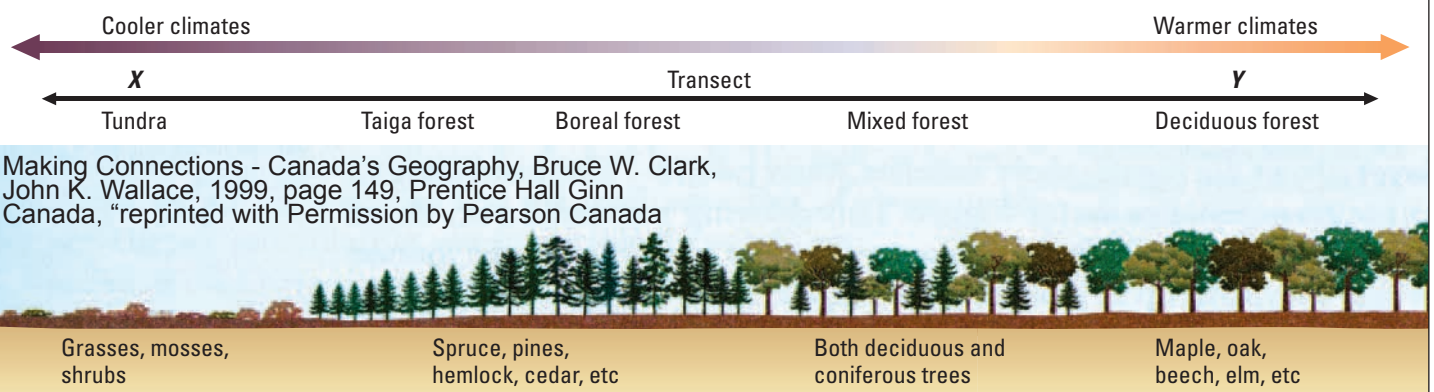
Source G – Vancouver



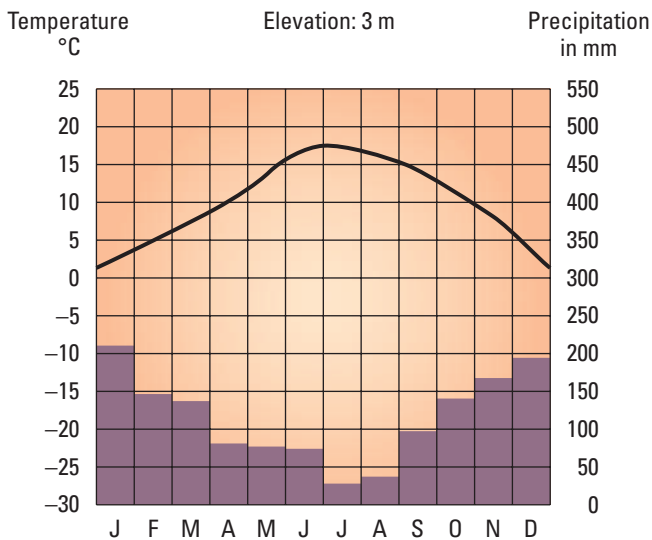
Awaiting copyright

Awaiting copyright

### Source J – General pattern of vegetation along transect from X to Y (in Source I)



### Source K – Vancouver climate graph



### Source L – Saskatoon climate graph

