



NSW Education Standards Authority

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Centre Number

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Student Number

IMPORTANT:

This resource was developed to support a previous version of the syllabus.
It may contain content that differs from the current syllabus.

2024

HIGHER SCHOOL CERTIFICATE EXAMINATION

Geography

**General
Instructions**

- Reading time – 5 minutes
- Working time – 3 hours
- Write using black pen
- Calculators approved by NESA may be used
- A Stimulus Booklet is provided with this paper
- Write your Centre Number and Student Number at the top of this page

**Total marks:
100**

Section I – 20 marks (pages 2–7)

- Attempt Questions 1–20
- Allow about 35 minutes for this section

Section II – 40 marks (pages 9–20)

- Attempt Questions 21–24
- Allow about 1 hour and 10 minutes for this section

Section III – 40 marks (page 21)

- Attempt TWO questions from Questions 25–27
- Allow about 1 hour and 15 minutes for this section

Section I

20 marks

Attempt Questions 1–20

Allow about 35 minutes for this section

Refer to the Stimulus Booklet

Use the multiple-choice answer sheet for Questions 1–20.

Refer to Source A on page 1 of the Stimulus Booklet to answer Question 1.

- 1** What type of photograph is Source A?

 - A. Satellite
 - B. Ground level
 - C. Oblique aerial
 - D. Vertical aerial

- 2** An economic enterprise operating at a local scale is reviewing its ecological dimensions.

Which of the following should be included in this review?

 - A. Costs
 - B. Workforce
 - C. Waste management
 - D. Competitive advantage

- 3** Which of the following factors LEAST influences world city status in 2024?

 - A. Density of factories
 - B. Cultural trend setting
 - C. Major sporting events
 - D. Business headquarters

Refer to Source *B* on page 1 of the Stimulus Booklet to answer Questions 4–5.

- 4** How many outer regional hubs are in Victoria?
- A. 2
 - B. 4
 - C. 6
 - D. 17
- 5** Which pair of urban dynamics of change are most associated with the growth of regional university hubs?
- A. Urban renewal and urban village
 - B. Exurbanisation and spatial exclusion
 - C. Suburbanisation and urban consolidation
 - D. Counterurbanisation and decentralisation

Refer to Source *C* on page 1 of the Stimulus Booklet to answer Question 6.

- 6** What was the percentage increase in the GDP contribution of RUN from 2015 to 2018?
- A. 29%
 - B. 41%
 - C. 71%
 - D. 82%

Refer to Source *D* on page 2 of the Stimulus Booklet to answer Questions 7–9.

- 7** Approximately how long would it take to fly from Tokyo to Aogashima Island in a helicopter travelling at an average speed of 220 km/h?
- A. 45 minutes
 - B. 1 hour and 20 minutes
 - C. 1 hour and 45 minutes
 - D. 2 hours and 20 minutes

8 What is the aspect of the slope at the end of the walking track at GR 493899?

- A. NE
- B. NW
- C. SE
- D. SW

9 Which of the following is visible from the trig station in AR 4990?

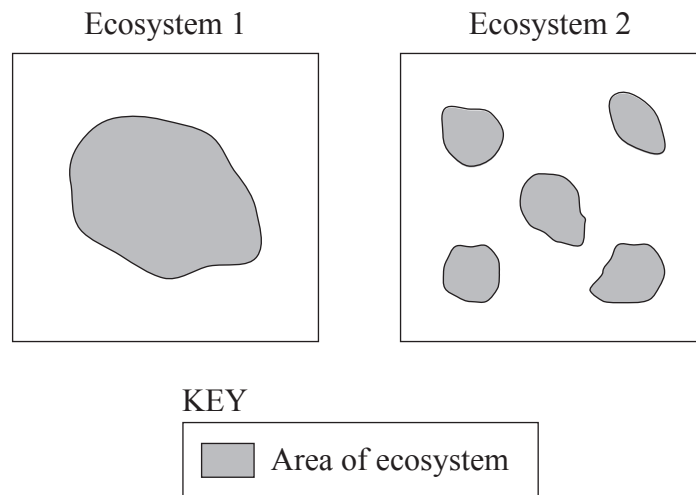
- A. Point E
- B. Point F
- C. Point G
- D. Point H

Refer to Sources *D*, *E*, *F* and *G* on pages 2–3 of the Stimulus Booklet to answer Question 10.

10 Which of the following economic enterprises is most likely to be found on Aogashima Island?

- A. University
- B. Cotton farm
- C. Guest house
- D. Wholesale firm

- 11** A diagram of two ecosystems is shown.



Why is Ecosystem 2 more at risk?

- A. More capacity for nutrient loss
- B. More linkages within populations
- C. Less vulnerable to invasive species
- D. Less organism mobility for obtaining resources

Refer to Source *D* on page 2 and Source *F* on page 3 of the Stimulus Booklet to answer Question 12.

- 12** What is the probable cause of the gap in the road at GR 496899?

- A. Flood
- B. Tsunami
- C. Landslide
- D. Lava flow

Refer to Source *H* on page 3 of the Stimulus Booklet to answer Question 13.

- 13** What is the approximate elevation at 32°26'30" North, 139°49' East?

- A. –500 m
- B. –150 m
- C. 200 m
- D. 550 m

Refer to Source *I* on page 3 of the Stimulus Booklet to answer Questions 14–15.

14 What weather event most likely occurred between Friday 24.11.23 and Saturday 25.11.23?

- A. Cold front
- B. Warm front
- C. Snow storm
- D. Tropical cyclone

15 What is the trend of wind speed and direction in the period 22–25 November?

	<i>Wind speed</i>	<i>Wind direction</i>
A.	Decreasing	S / SE shifting to N / NW
B.	Decreasing	W / NW shifting to E / SE
C.	Increasing	S / SE shifting to N / NW
D.	Increasing	W / NW shifting to E / SE

16 A food chain for a typical unmodified ecosystem is shown.

Producer → primary consumer → secondary consumer → tertiary consumer

Why is the total weight of secondary consumers far less than that of producers in an ecosystem?

- A. Energy is lost in consumption.
- B. Producers remain in one location.
- C. Secondary consumers need to move fast.
- D. There is less competition for secondary consumers.

Refer to Source *J* on page 4 of the Stimulus Booklet to answer Question 17.

17 How is this proportional wedge graph likely to change for the year 2050?

- A. A decrease in average wedge length will be shown.
- B. The number of African cities ranked 11–20 will increase.
- C. The number of North American cities on the graph will decrease.
- D. A new colour to represent cities in the Oceania region will be needed.

Refer to Source *D* (excluding the inset) on page 2 and Source *E*, Source *F* and Source *H* on page 3 of the Stimulus Booklet to answer Question 18.

18 What is the correct order of the sources from smallest to largest scale?

- A. *D, E, F, H*
- B. *F, E, D, H*
- C. *H, D, E, F*
- D. *H, F, E, D*

Refer to Source *D* on page 2 of the Stimulus Booklet to answer Question 19.

19 What is the ratio of bare ground to vegetation along the transect between point A and point D?

- A. 1 : 2.2
- B. 1 : 4.3
- C. 1 : 5.3
- D. 1 : 9.4

Refer to Source *D* on page 2 and Source *E* on page 3 of the Stimulus Booklet to answer Question 20.

20 What is the grid reference in Source *D* of point Y in Source *E*?

- A. GR 497900
- B. GR 504894
- C. GR 511909
- D. GR 512901

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Centre Number

Geography

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Student Number

Section II Answer Booklet

40 marks

Attempt Questions 21–24

Allow about 1 hour and 10 minutes for this section

Instructions

- Write your Centre Number and Student Number at the top of this page.
- Use the Stimulus Booklet and your knowledge of geography to answer Questions 21–24 in the spaces provided. These spaces provide guidance for the expected length of response.
- Show all relevant working in questions involving calculations.
- Extra writing space is provided at the back of this booklet.
If you use this space, clearly indicate which question you are answering.

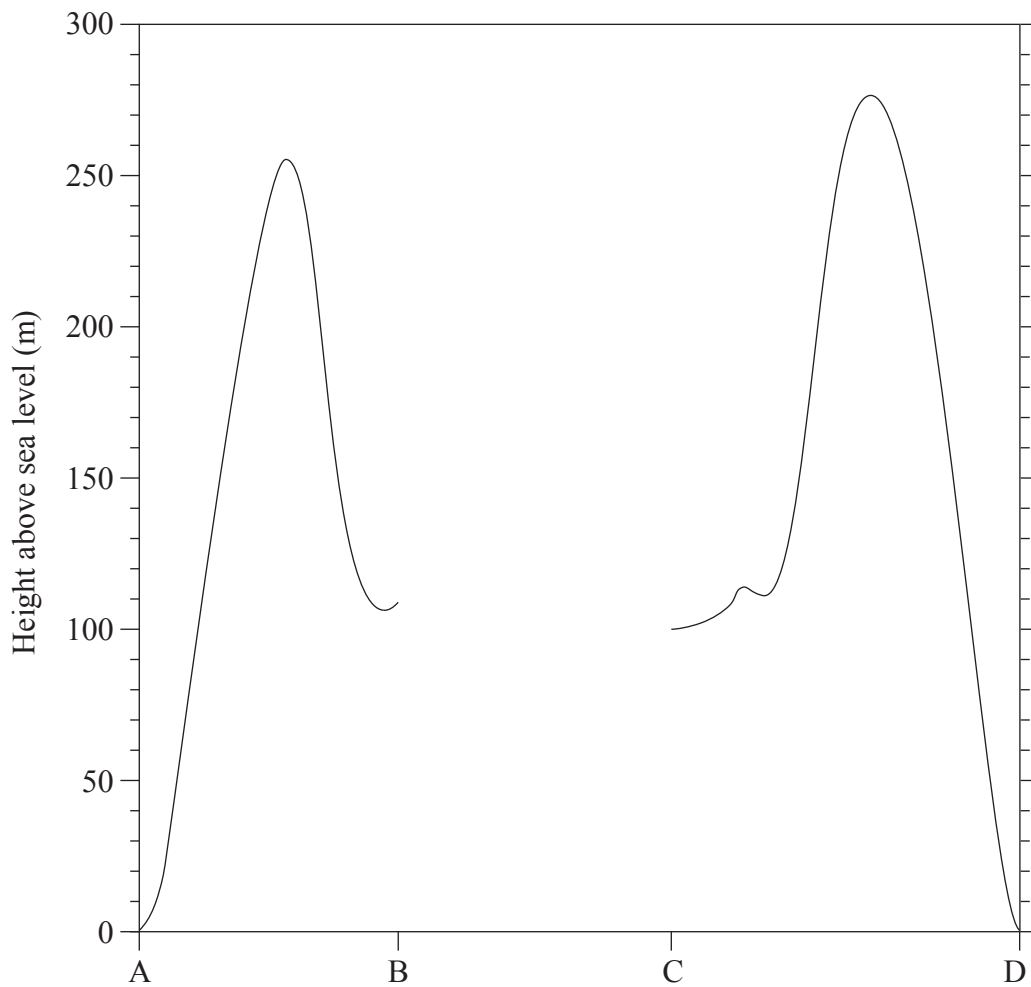
Please turn over

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Question 21 (4 marks)

The diagram shows a cross-section of Aogashima Island.



- (a) Using Source *D* on page 2 of the Stimulus Booklet complete the cross-section. 2
- (b) Calculate the vertical exaggeration of the cross-section. 2

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Question 22 (11 marks)

Refer to pages 2–3 of the Stimulus Booklet to answer parts (a)–(c).

- (a) Identify and locate an example of a human feature on Aogashima Island in Source *D*. 2

Human feature:

Grid reference:

- (b) Propose a geographical inquiry question that a geography student could investigate on a field trip to Aogashima Island. 2

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- (c) Using Source *D* and Source *G*, give TWO reasons why it is important to protect ecosystems on Aogashima Island. 3

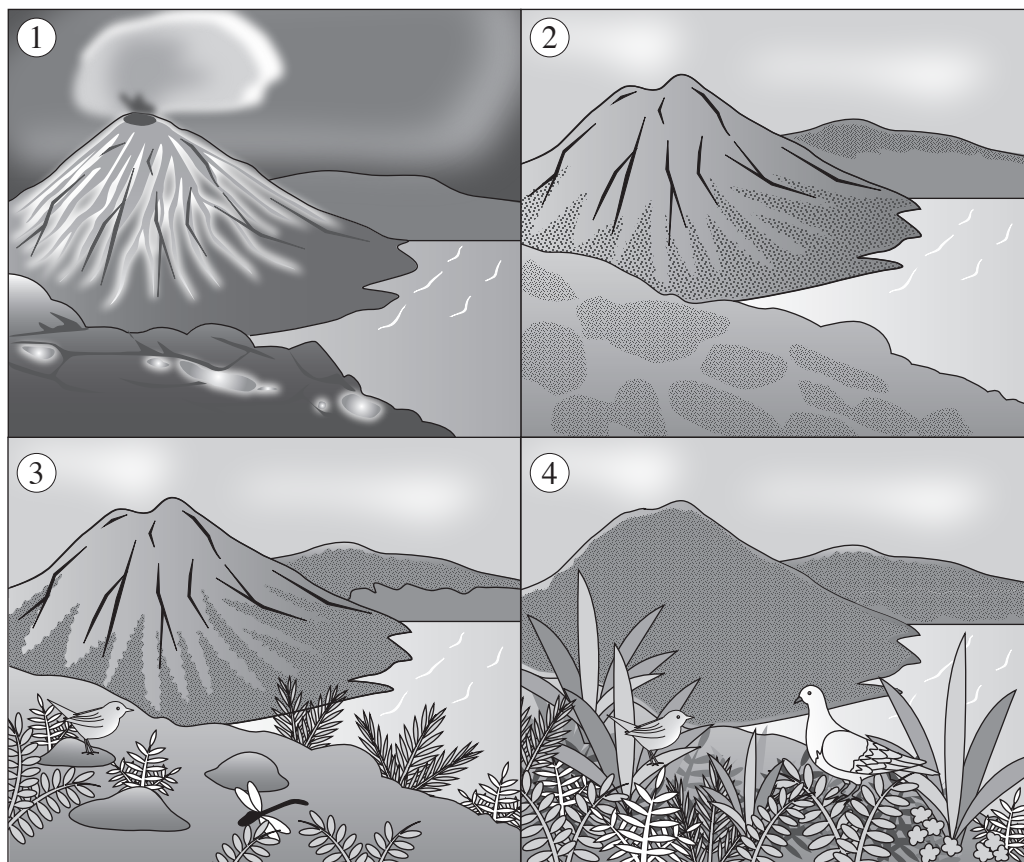
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Question 22 continues on page 13

Question 22 (continued)

(d) Stages of a biogeographical process on a volcanic island are shown.

4



Explain the biogeographical process shown.

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End of Question 22

Question 23 (13 marks)

- (a) Describe internal linkages between people in ONE economic enterprise operating at a local scale.

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Economic enterprise:

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Question 23 continues on page 15

Do NOT write in this area.

Question 23 (continued)

Answer parts (b)–(c) with reference to an economic activity you have studied.

Economic activity:

(b) How has ONE market preference changed the nature of the economic activity? **3**

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(c) Discuss the social impacts of the economic activity. **6**

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End of Question 23

Question 24 (12 marks)

- (a) Describe ONE way that the operation of global networks can influence the role of world cities. **3**

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- (b) How has ONE urban dynamic of change influenced the location of residential land in a large city of the developed world? **3**

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Question 24 continues on page 17

Do NOT write in this area.

Question 24 (continued)

- (c) An extract from a 2016 Australian Parliamentary report is shown.

6

“Regional capitals serve as hubs for larger regional areas. They provide their own communities and those in smaller surrounding communities access to education, jobs ... opportunities for cultural participation along with a host of other amenities that are essential to support strong and vibrant communities ...”

© Australian Government

Using Source C on page 1 of the Stimulus Booklet and the extract, account for the changing role of regional centres.

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End of Question 24

Section II extra writing space

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Geography

Section III

40 marks

Attempt TWO questions from Questions 25–27

Allow about 1 hour and 15 minutes for this section

Answer both questions in the Section III Writing Booklet. Extra writing booklets are available.

Your answers will be assessed on how well you:

- demonstrate geographical knowledge and understanding relevant to the question
 - communicate ideas and information using geographical terms and concepts appropriately
 - refer to case studies, illustrative examples and the Stimulus Booklet where appropriate
 - present a sustained, logical and cohesive response
-

Question 25 (20 marks)

Examine how locational, environmental and global changes can affect ONE local economic enterprise you have studied.

Question 26 (20 marks)

Compare different strategies used to manage ecosystems in terms of their ecological sustainability.

Question 27 (20 marks)

Explain how the character of mega cities in the developing world influences responses to the challenges of living in them.

End of paper

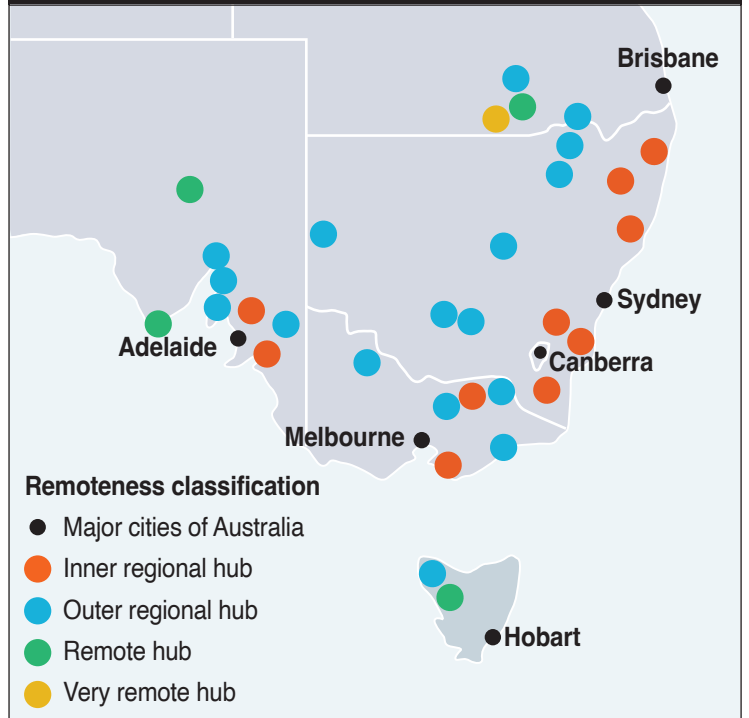
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Source A – A Country Universities Centre



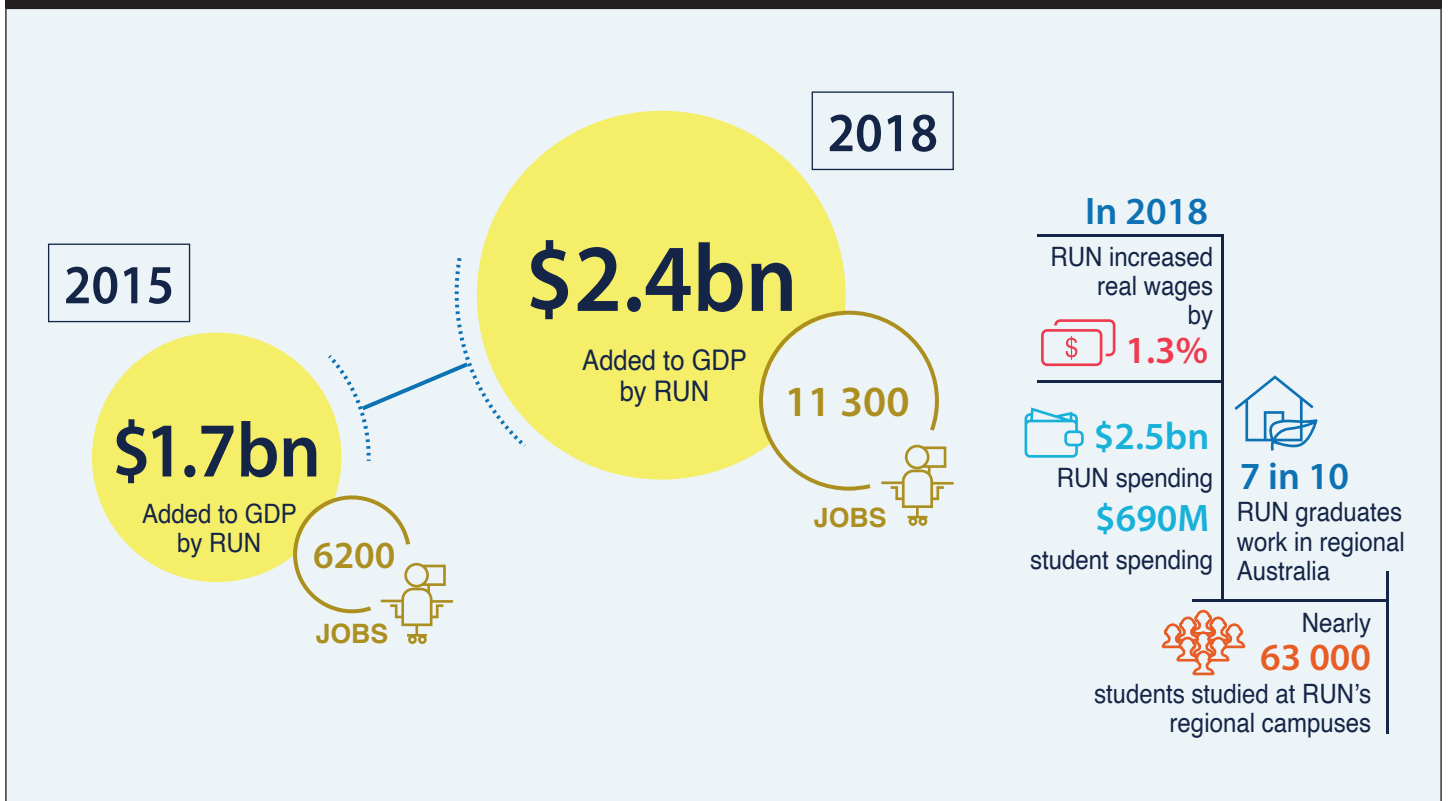
© Country Universities Centre

Source B – Regional university hubs



© Commonwealth Department of Education

Source C – Economic contribution of Regional Universities Network (RUN) 2015–2018



© Regional University Network

Source D – Map of Aogashima Island



KEY

Ocean		Bare ground		Trig station		Contour interval: 10 m
Major road		Tunnel		Shinto shrine		Scale: 1 : 20 000
Minor road		Walking track		Jetty		
Vegetation		Building		Helipad		

Source E – Aogashima Island



Photo taken by Makoto Harada

Source F – Aogashima Island port

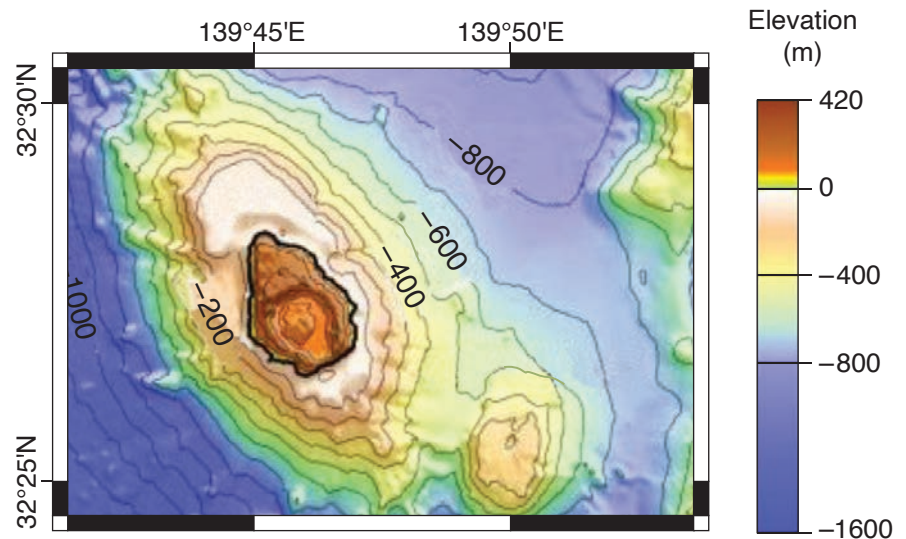


© Imgur.com

Source G – Text on Aogashima Island

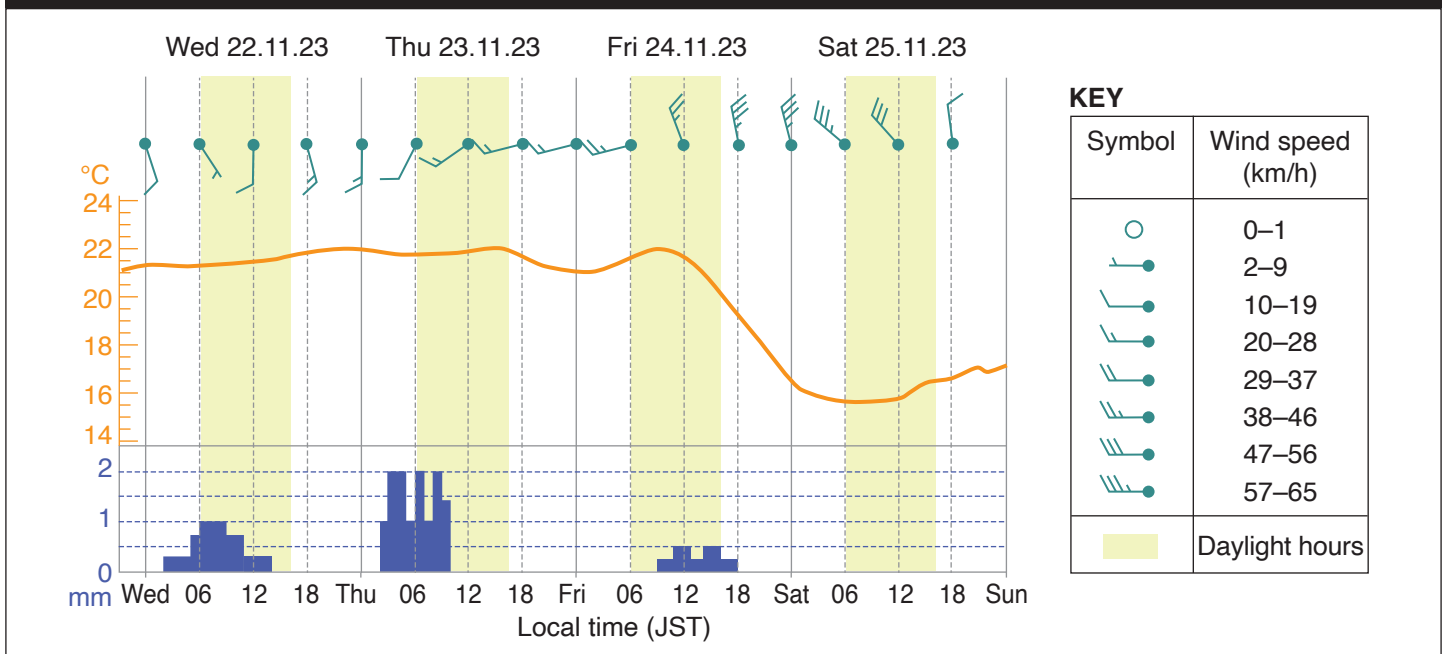
Aogashima Island is an important bird area (IBA) because it supports populations of several bird species that are considered threatened, including the Japanese Woodpigeon and Grasshopper-warble. This IBA is very popular for bird watchers and nature photographers due to its lush, beautiful scenery.

Source H – Topography of Aogashima Island and surrounds



© Geospatial Information Authority of Japan

Source I – Meteogram for Aogashima Island



© Meteoblue

