



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

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**GEOGRAPHY**

**0460/42**

Paper 4 Alternative to Coursework

**May/June 2013**

INSERT

**1 hour 30 minutes**

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**READ THESE INSTRUCTIONS FIRST**

This Insert contains Figs 1, 2, 3, 4 and 6 and Table 1 for Question 1, and Photographs A and B, Fig. 8 and Tables 4 and 5 for Question 2.

The Insert is **not** required by the Examiner.

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This document consists of **8** printed pages.



**Fig. 1 for Question 1****Daily rainfall in October 2000**

		Rainfall (mm)
Total September		141.0
October		
	1st	8.9
	2nd	0.0
	3rd	0.0
	4th	0.8
	5th	0.0
	6th	0.0
	7th	13.0
	8th	0.0
	9th	41.6
	10th	20.4
	11th	106.4
	12th	22.3
	13th	0.0
	14th	0.0
	15th	3.1
	16th	19.0
Total October		369.0

**Fig. 2 for Question 1****Diary of the river flood**

Day 1	It started to rain heavily about midday and rained until evening. The river level started to rise.
Day 2	The rain was less continuous but there were two very heavy showers. The river level went down but didn't return to its normal level.
Day 3	It started to rain heavily again in the afternoon and this continued all evening and through the night. The river level rose again and the rate of increase became more rapid.
Day 4	The rainfall continued through the night and the morning. It finally stopped raining about midday. The river overflowed onto the floodplain during the night and continued to flood the land even when the rain stopped.

Fig. 3 for Question 1

Changes in the area

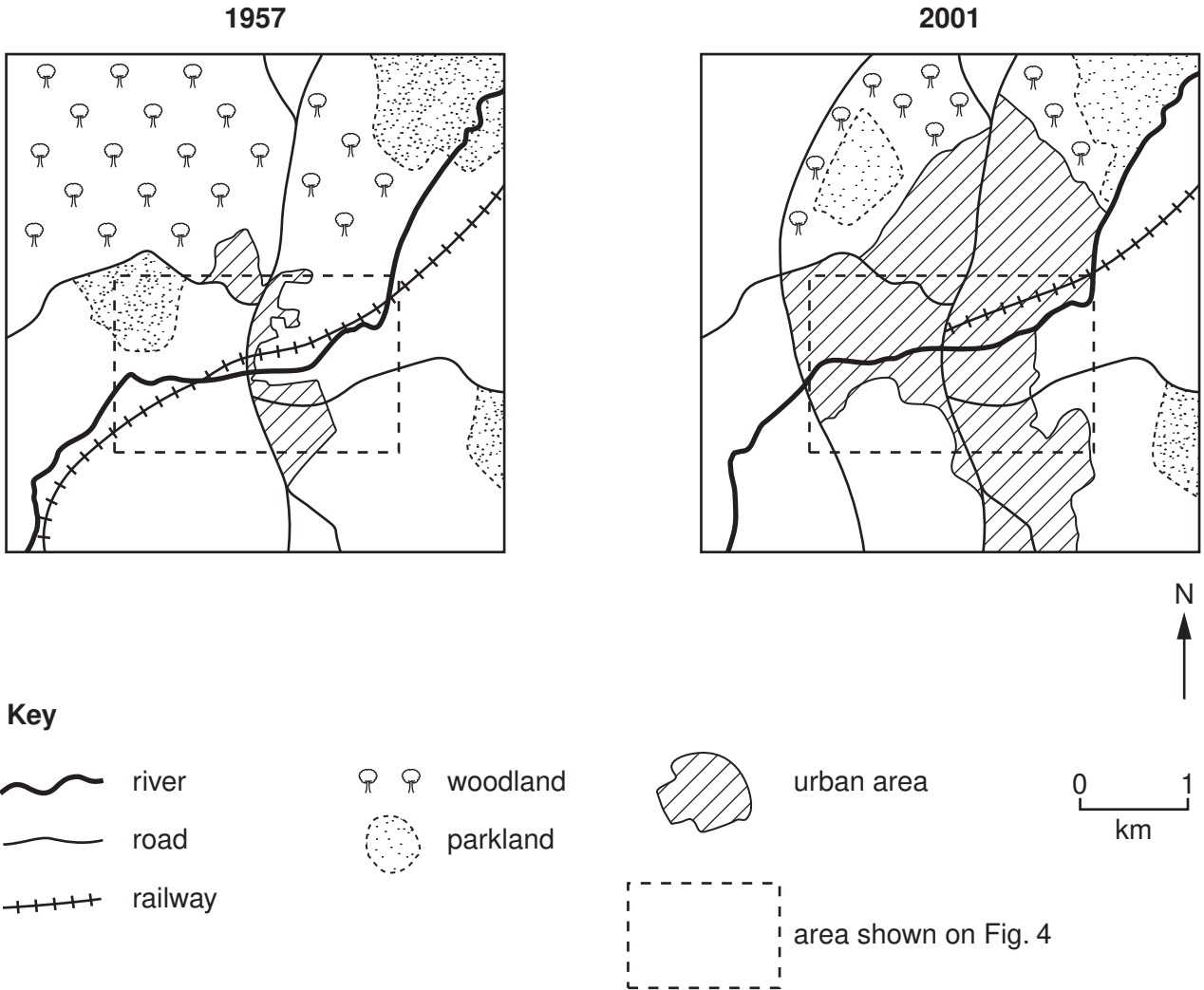


Fig. 4 for Question 1

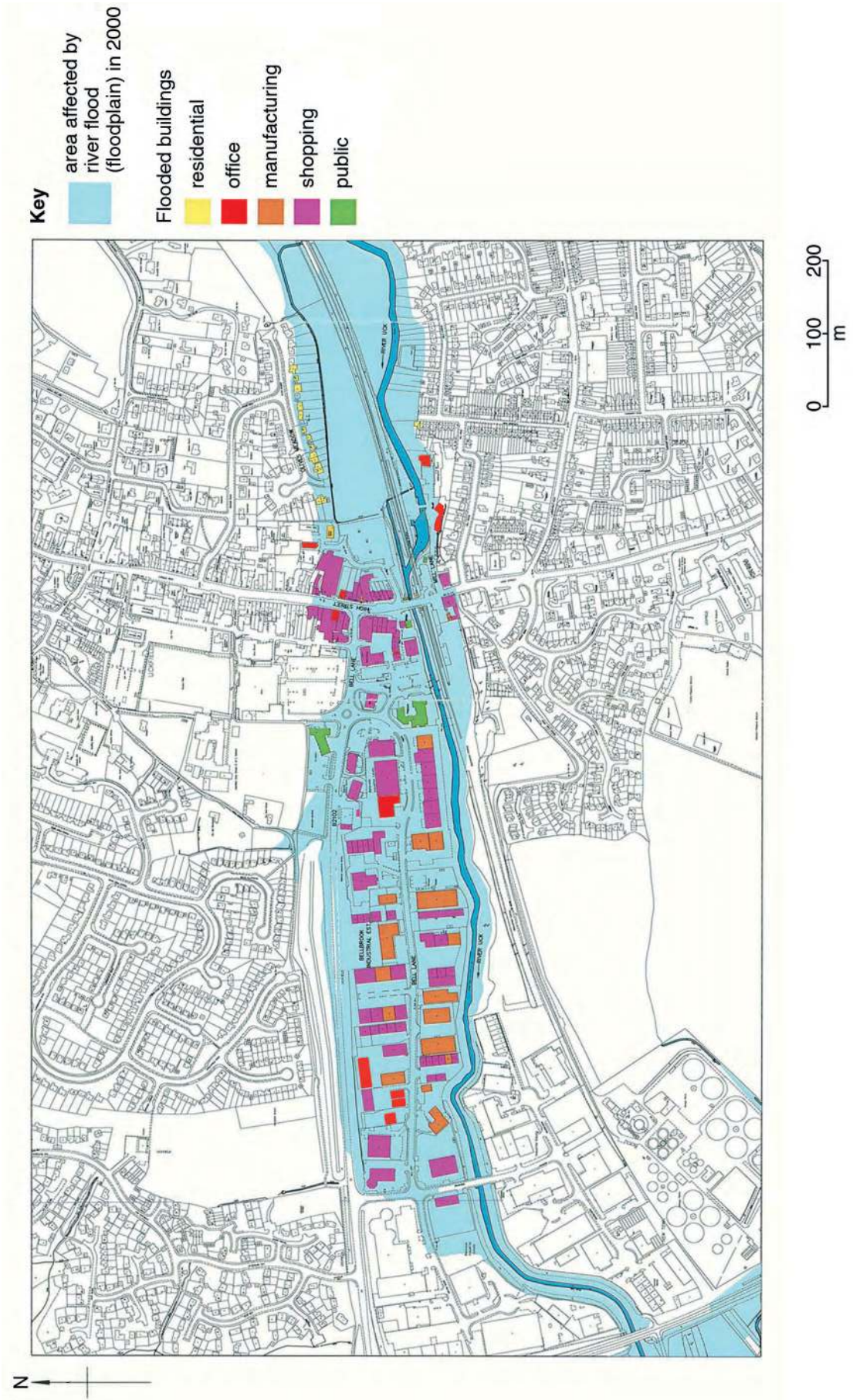


Table 1 for Question 1

## Uses of buildings on the floodplain in 2000 which were affected by flooding

Building use	Percentage of buildings	Number of buildings
Shopping	55	73
Residential	15	20
Office	14	19
Manufacturing	12	16
Public	4	5
Total	100	133

Fig. 6 for Question 1

## Business questionnaire

We are investigating the effects of river flooding in October 2000 as part of our Geography coursework. Please will you answer the following questions?

1. Were you given any warning that the river might flood your business?

Yes

No

2. How was your business affected by river flooding in October 2000?

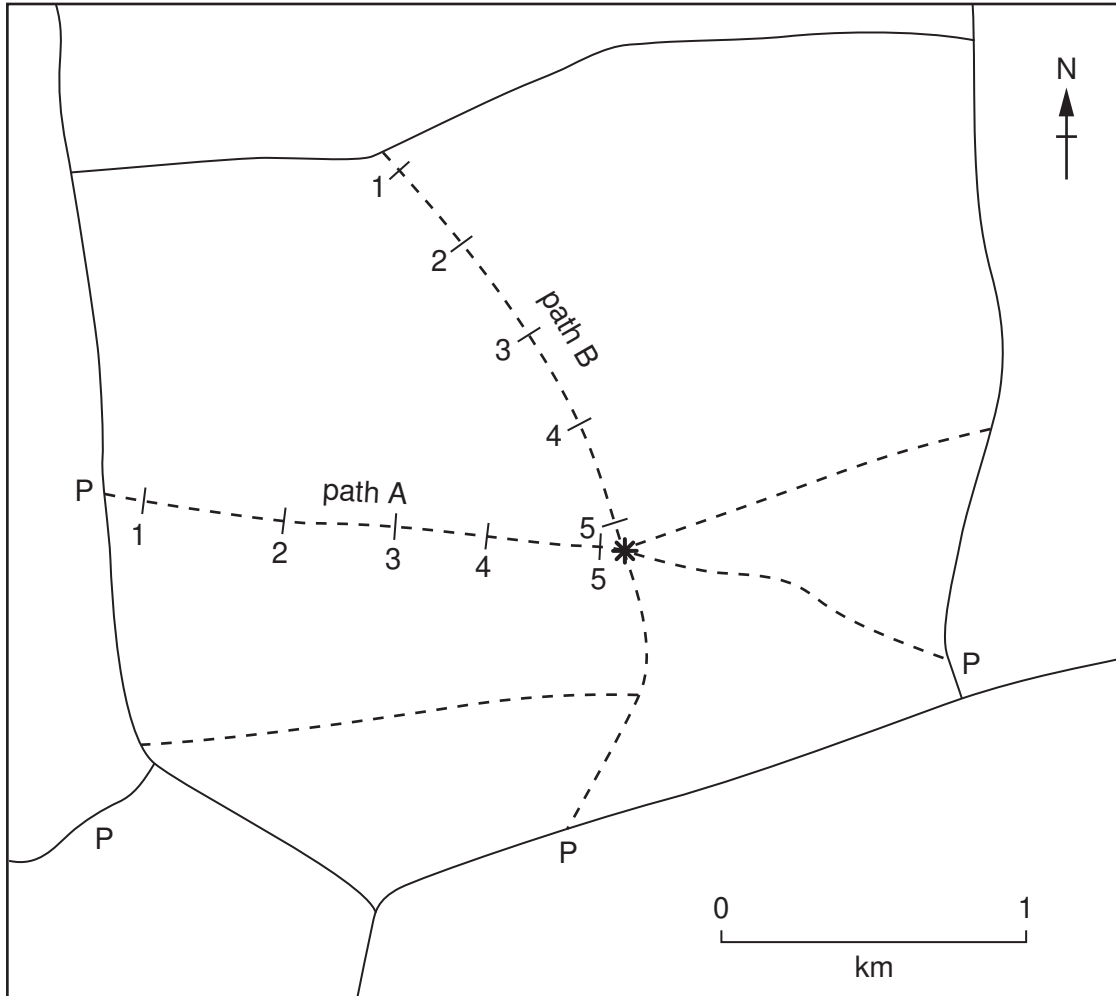
You may choose more than one response by ticking the box.

	Tick ✓
Loss of customers	
Temporary closure of the building and re-location	
Expense of repairing the building	
Destruction of stock and equipment	
Increased cost of insurance	

Thank you for your time.

Fig. 8 for Question 2

## Location of fieldwork sites

**Key**

- \* hilltop and tower
- - - path
- road
- P car park
- 1 sampling site

**Photograph A for Question 2**

**The Tower**



**Table 4 for Question 2**

**Results of pedestrian count**

Day: Wednesday  
 Time: 10.00 – 10.10  
 Weather: Misty, cloudy, rain showers  
 Other information: Tower is closed

Path A: from the car park to the tower	
Site	Number of people
Car park	
1	6
2	6
3	9
4	7
5	12
Tower	

Path B: from the road to the tower	
Site	Number of people
Road	
1	2
2	3
3	2
4	4
5	8
Tower	

Day: Sunday  
 Time: 10.00 – 10.10  
 Weather: Sunny, warm, dry  
 Other information: Tower is open

Path A: from the car park to the tower	
Site	Number of people
Car park	
1	45
2	38
3	36
4	36
5	50
Tower	

Path B: from the road to the tower	
Site	Number of people
Road	
1	16
2	14
3	13
4	12
5	27
Tower	

**Photograph B for Question 2****Table 5 for Question 2****Vegetation cover and bare soil****Path A: from the car park to the tower**

Site	1	2	3	4	5
Vegetation cover (%)	14	22	10	23	0
Bare soil (%)	86	78	90	77	100

**Path B: from the road to the tower**

Site	1	2	3	4	5
Vegetation cover (%)	70	62	55	44	10
Bare soil (%)	30	38	45	56	90

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