



**HWA CHONG INSTITUTION**  
**JC2 Preliminary Examinations**  
**Higher 2**

**CANDIDATE  
NAME**

**CT GROUP**

**CENTRE  
NUMBER**

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**INDEX  
NUMBER**

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**GEOGRAPHY**

**9730/01**

Paper 1 Physical Geography

**23 September 2013**

INSERT

**3 hours**

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**READ THESE INSTRUCTIONS FIRST**

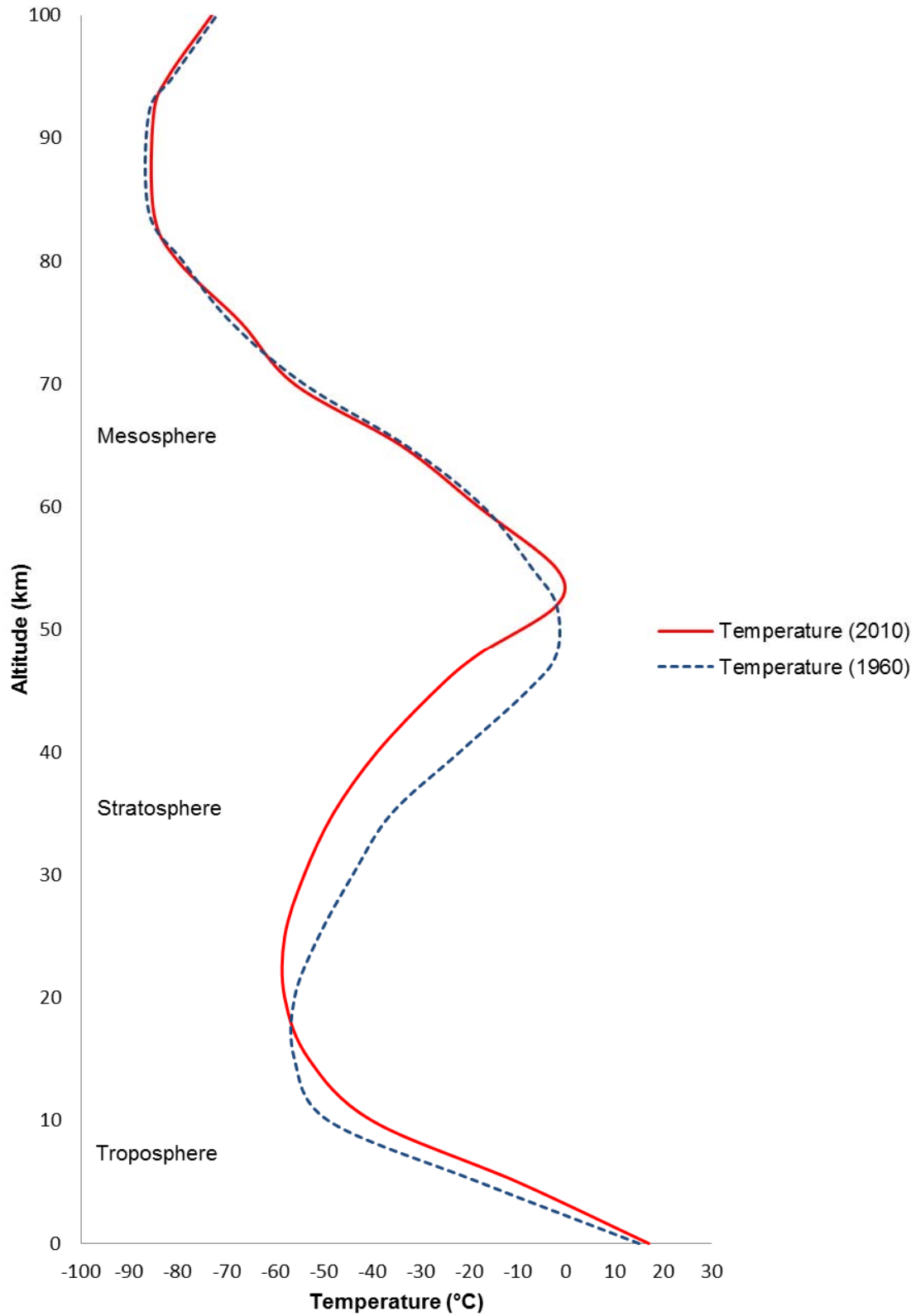
This Insert contains all the figures referred to in the questions.

**Photograph A for Question 1**  
**Mass movement process at Aldbrough, Yorkshire, UK.**



## Figs. 1A and 1B for Question 2

**Fig. 1A**  
**Temperature profile of the Earth's atmosphere for 1960 and 2010**



**Fig. 1B**  
**Atmospheric carbon dioxide from 1959 – 2012 in parts per million (ppm)**

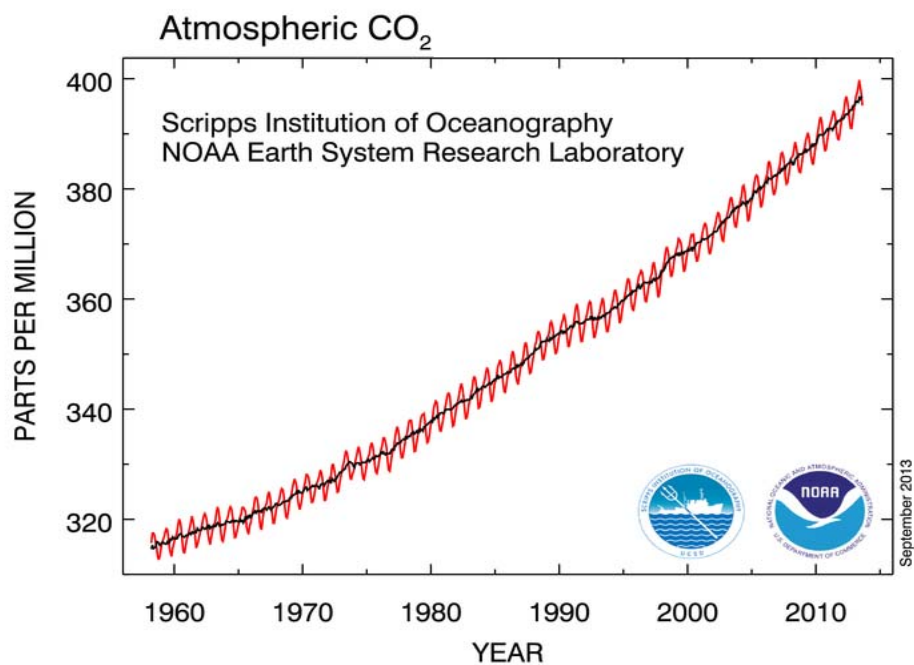


Table 1, Figs. 2A and 2B, Photograph B for Question 3

**Table 1**  
**Record of annual peak discharge of River Cuckmere, UK**

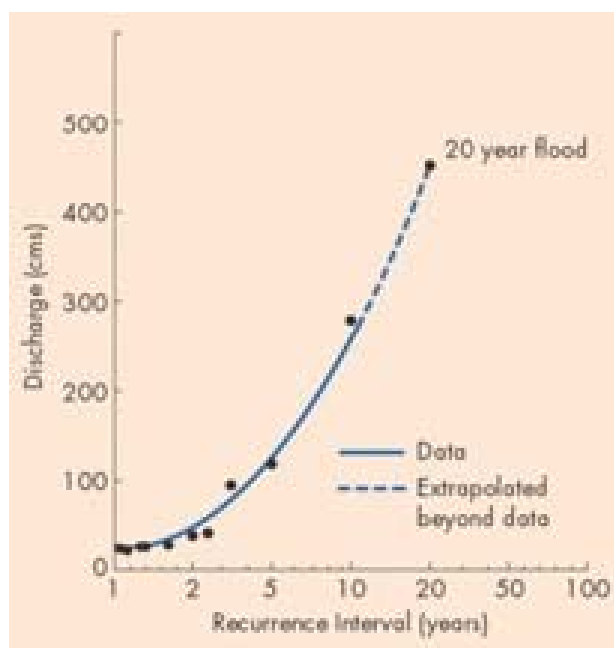
Year	Discharge (m <sup>3</sup> /s)	M	R (yrs)
1995	30	5	
1996	280	1	
1997	45	4	
1998	28	6	
1999	120	2	
2000	26	7	
2001	100	3	?
2002	23	8	
2003	20	9	

M = Magnitude  
 where M = 1 is the  
 highest flow on record

R = Recurrence  
 interval in years;  
 calculated by  
 $R = (N + 1) / M$

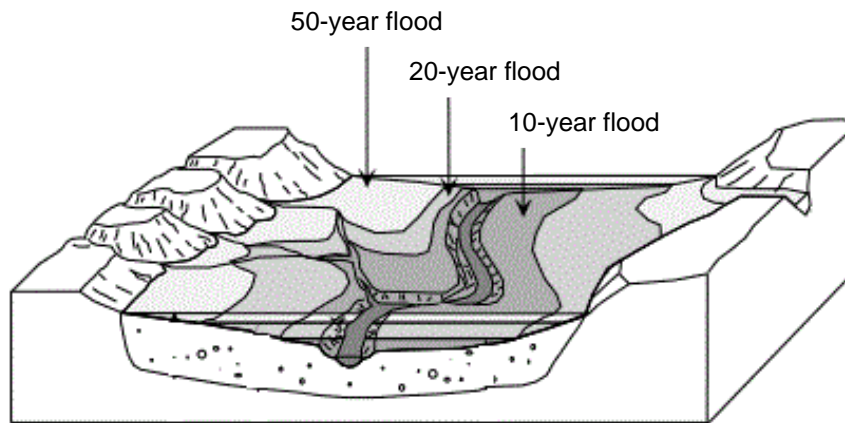
N = total number of  
 years of record

**Fig. 2A**  
**Recurrence interval of River Cuckmere with peak annual discharge**



**Fig. 2B and Photograph B**  
**Strategies employed to mitigate hazards caused by flooding of River Cuckmere**

**Fig. 2B**



**Photograph B**



Figs. 3A and 3B for Question 4

Fig. 3A

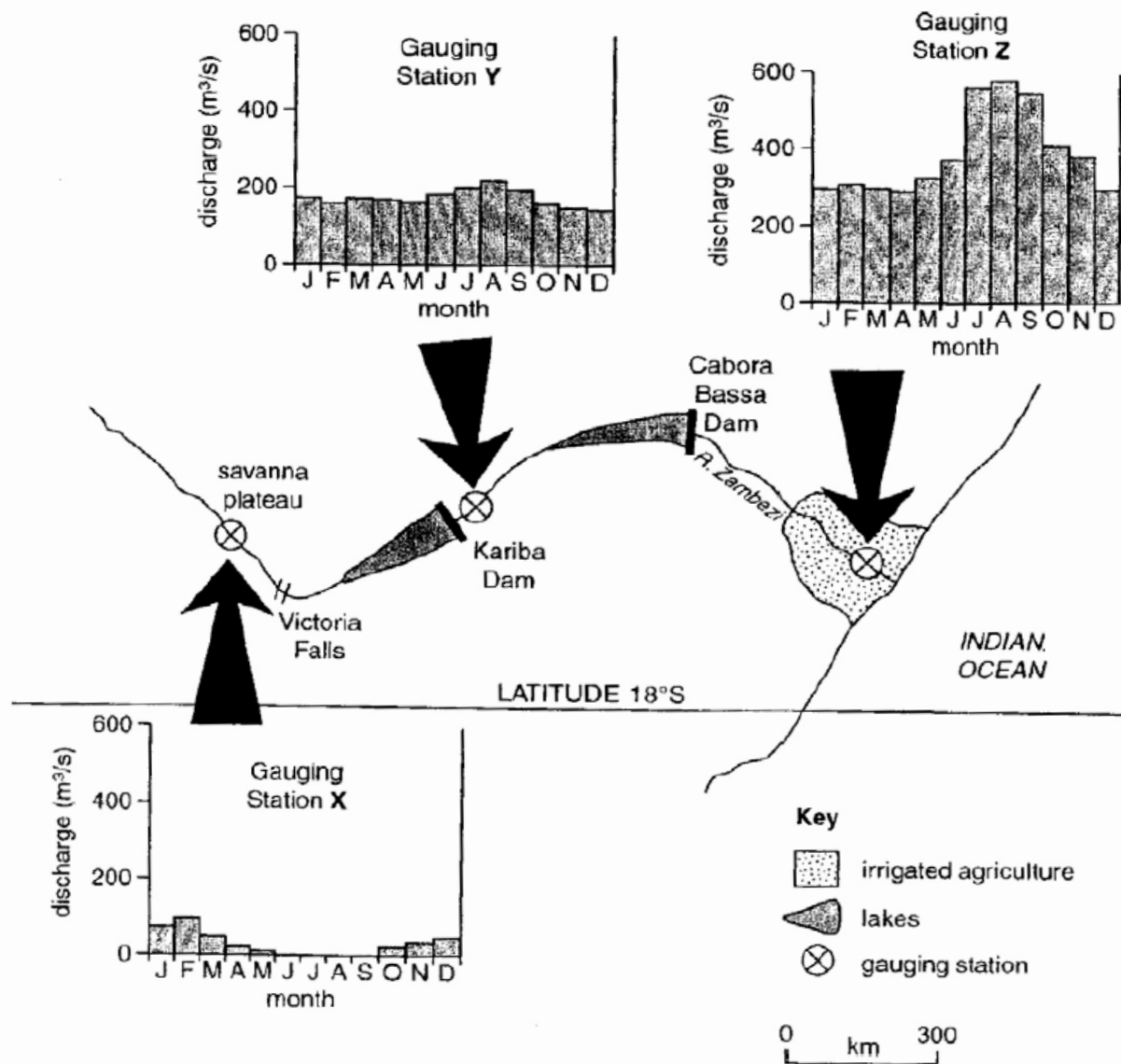


Fig. 3B

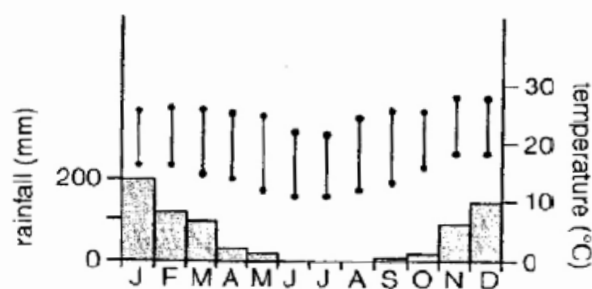


Fig. 4 for Question 5 OR (a)

## World's ocean ridges

