



GEOGRAPHY

9768/04

Paper 4 Research Topic

May/June 2014

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1 hour 30 minutes



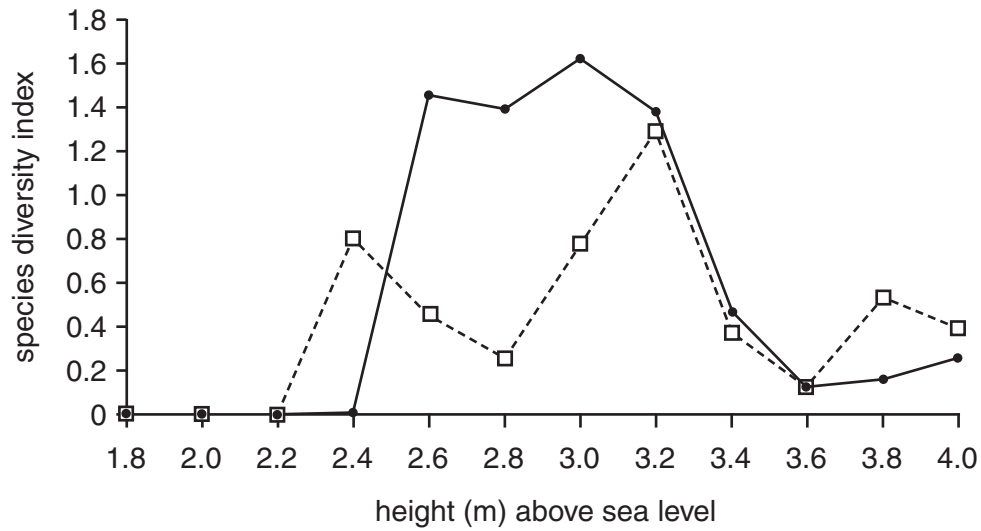
READ THESE INSTRUCTIONS FIRST

This Insert contains all the Figures and the Table referred to in the Question Paper.

This document consists of **11** printed pages and **1** blank page.

Fig. 1 for Question 1

The effect of trampling on salt marsh in the estuary of the River Gann, Milford Haven, Wales, over a 10 year period

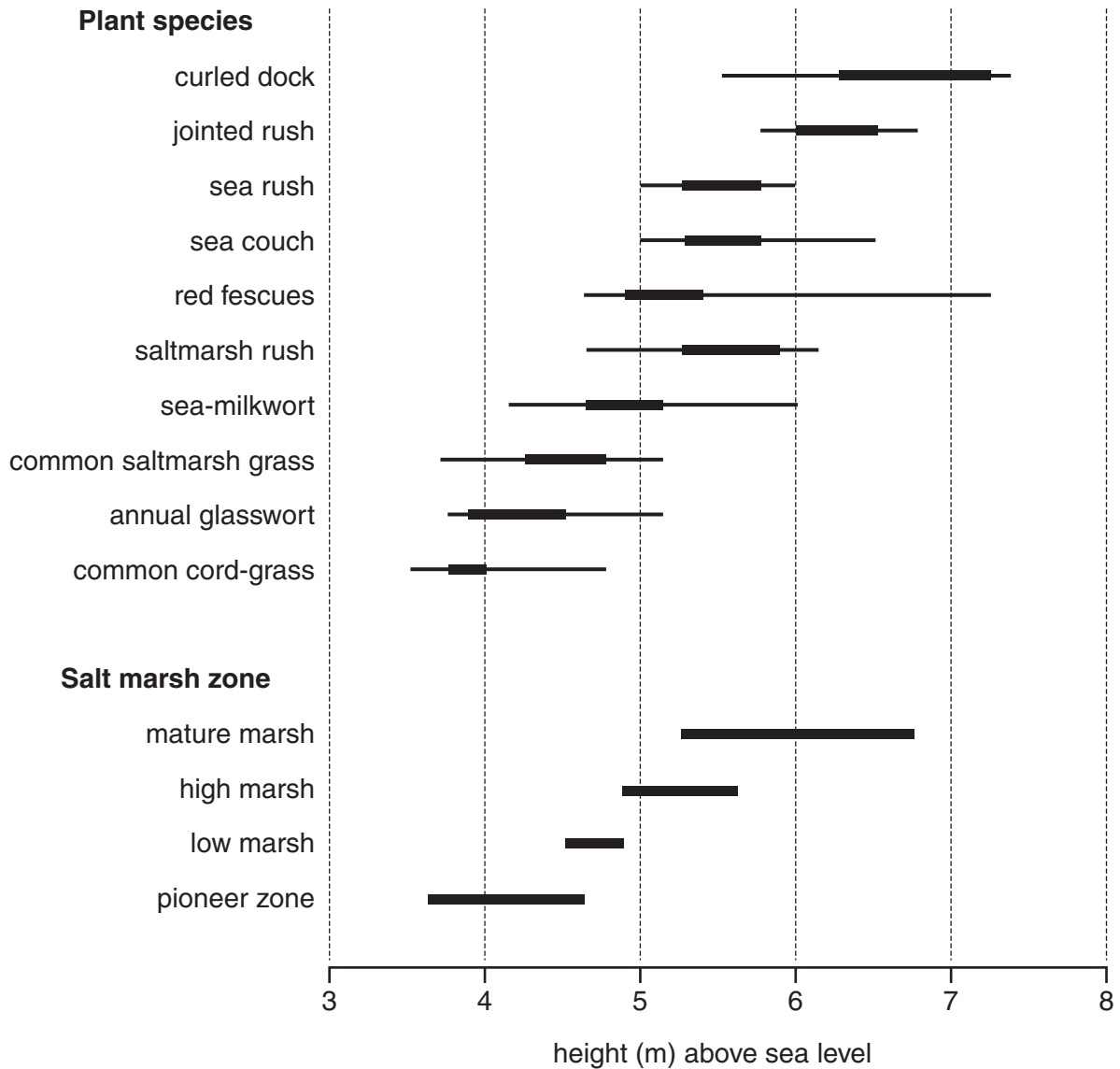
**Key**

- untrampled
- trampled

Species diversity index is a measure of the number of plant species present, a higher value indicating that a greater number of plant species are present.

Fig. 2 for Question 1

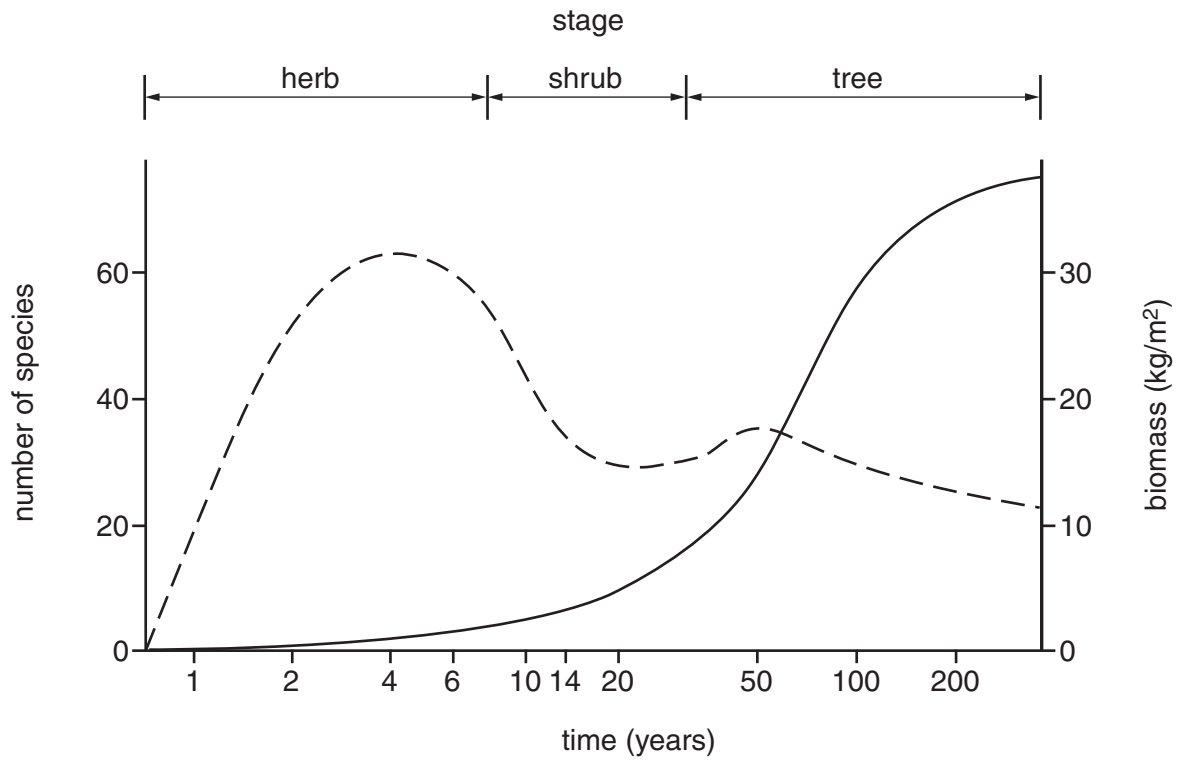
Plant species in the salt marshes of Morecambe Bay, England



Note: the thicker parts of the line represent the range where a species is most frequent.

Fig. 3 for Question 2

The evolution of biomass and number of species of vegetation in a forested area over a period of time



Key



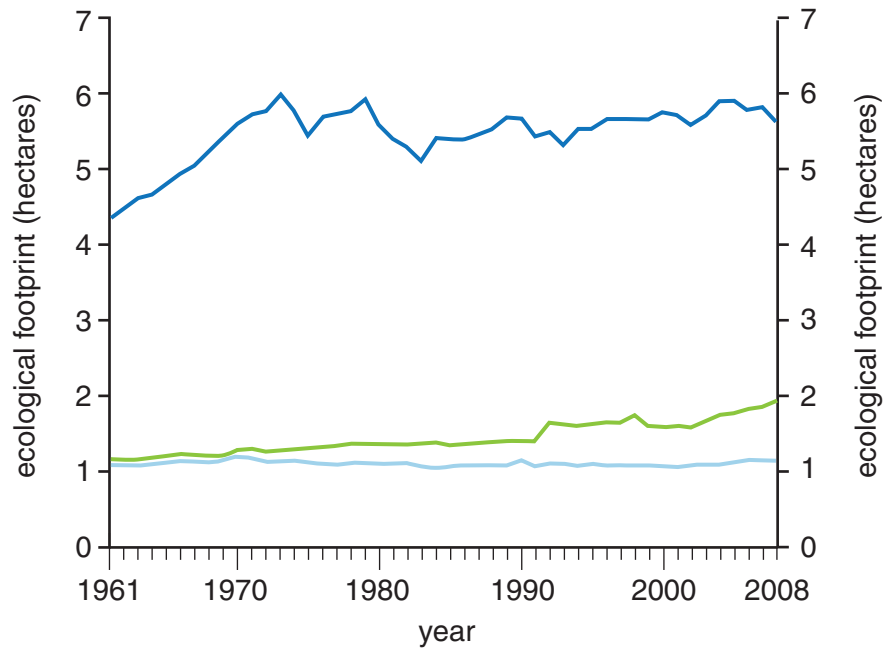
-  number of species
-  biomass

Fig. 4 for Question 5

The ecological footprint in low, middle and high income countries between 1961 and 2008



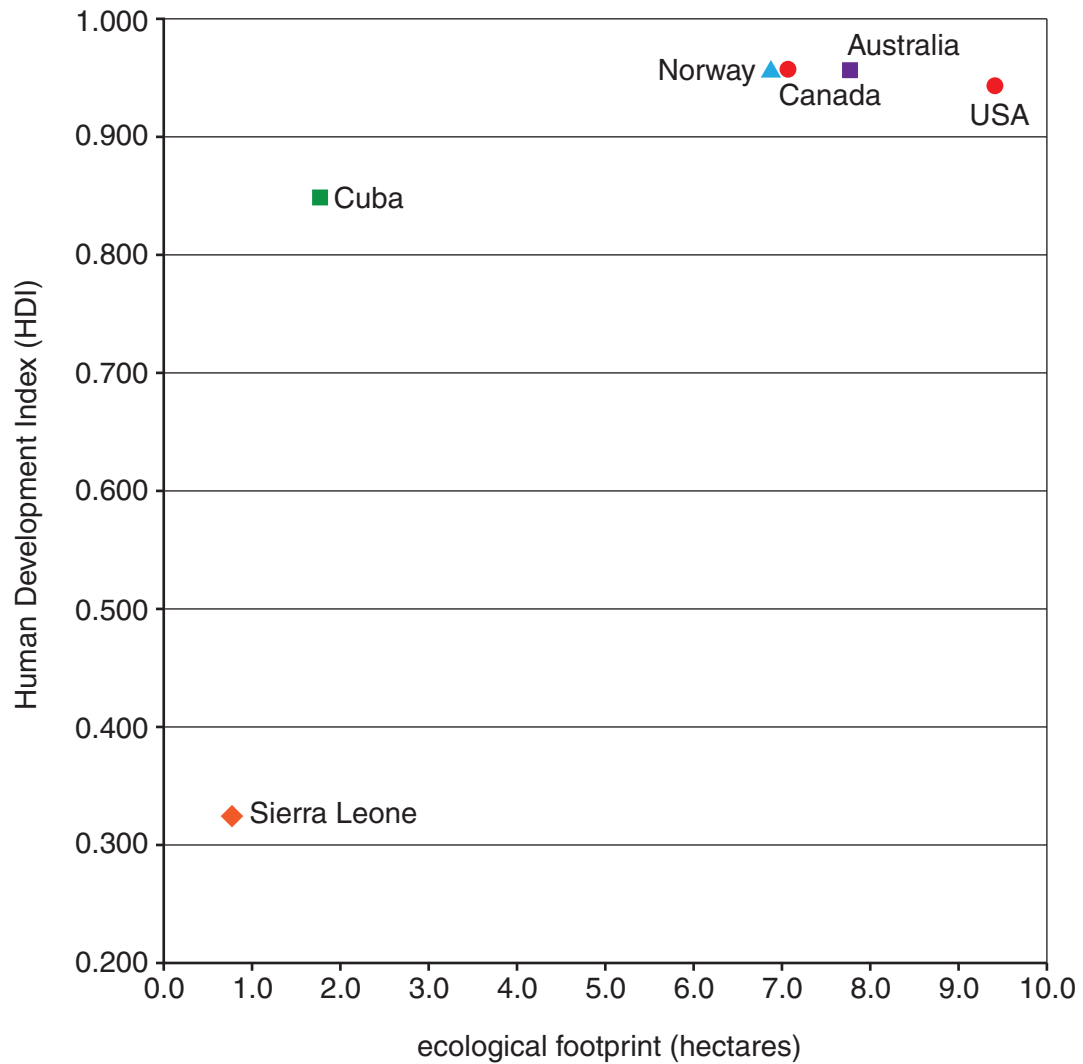
Key

- high income countries
- middle income countries
- low income countries

Ecological footprint can be defined as the area of land required by an individual in that country to maintain his or her standard of living.

Fig. 5 for Question 5

Ecological footprint and Human Development Index (HDI) for selected countries



The HDI is a composite measure of development which takes into account life expectancy, education and income.

Table 1

Annual population growth rate for selected countries

Country	Annual population growth rate (%)
Sierra Leone	2.3
Cuba	-0.15
Norway	0.33
Canada	0.78
Australia	1.13
USA	0.9

Fig. 6 for Question 6

Population of dormice in England, 1993 to 2000

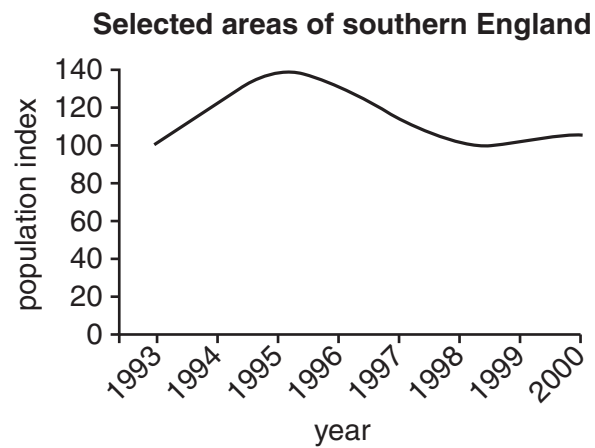
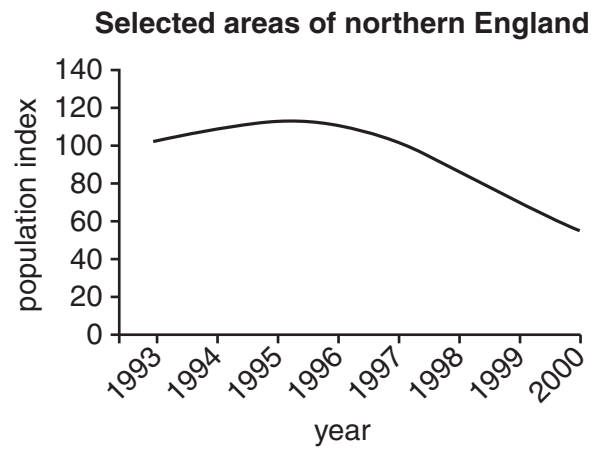
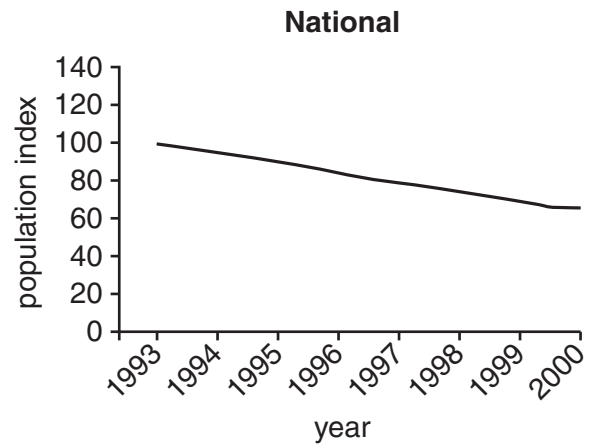


Fig. 7 for Question 9

Changing areas of selected land uses in the CBD of Bangalore, India, 1985 to 2003

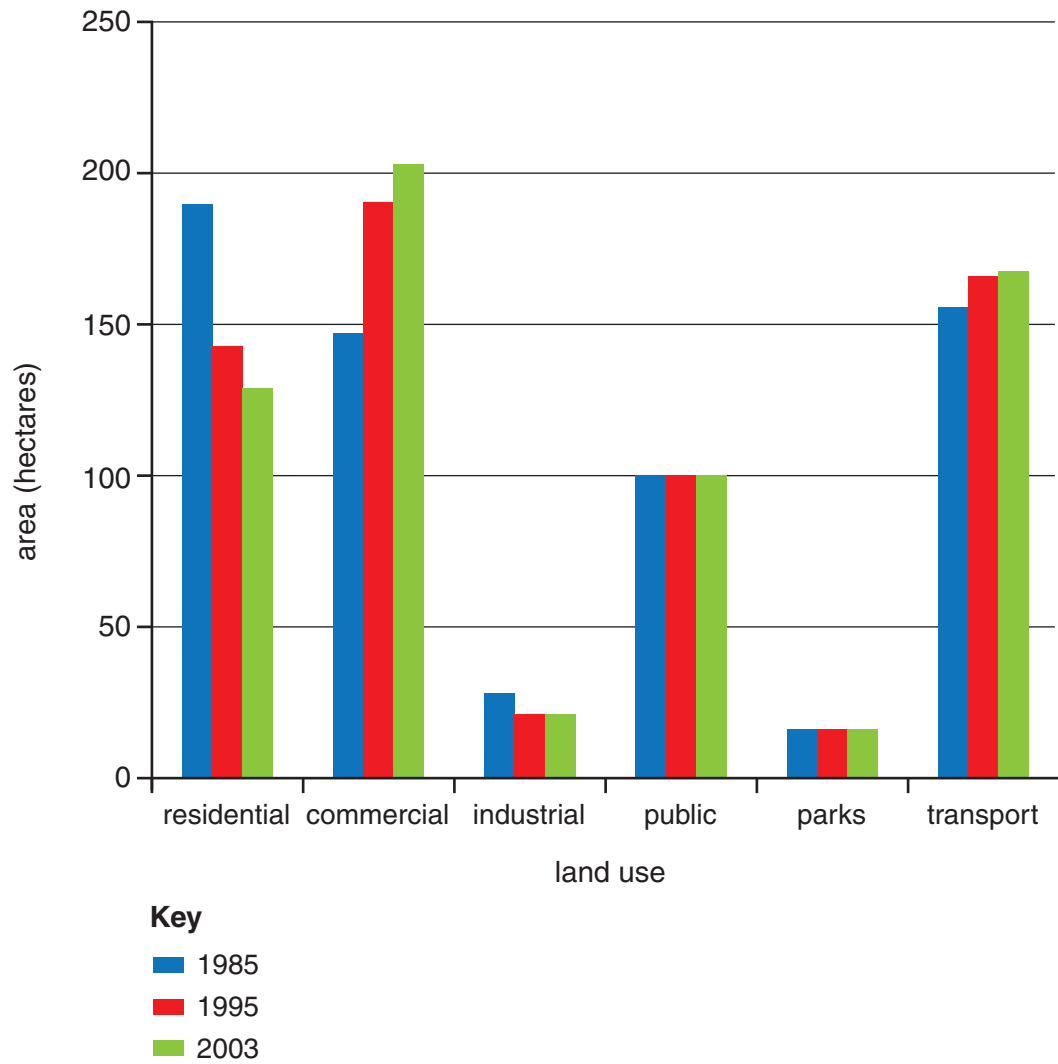
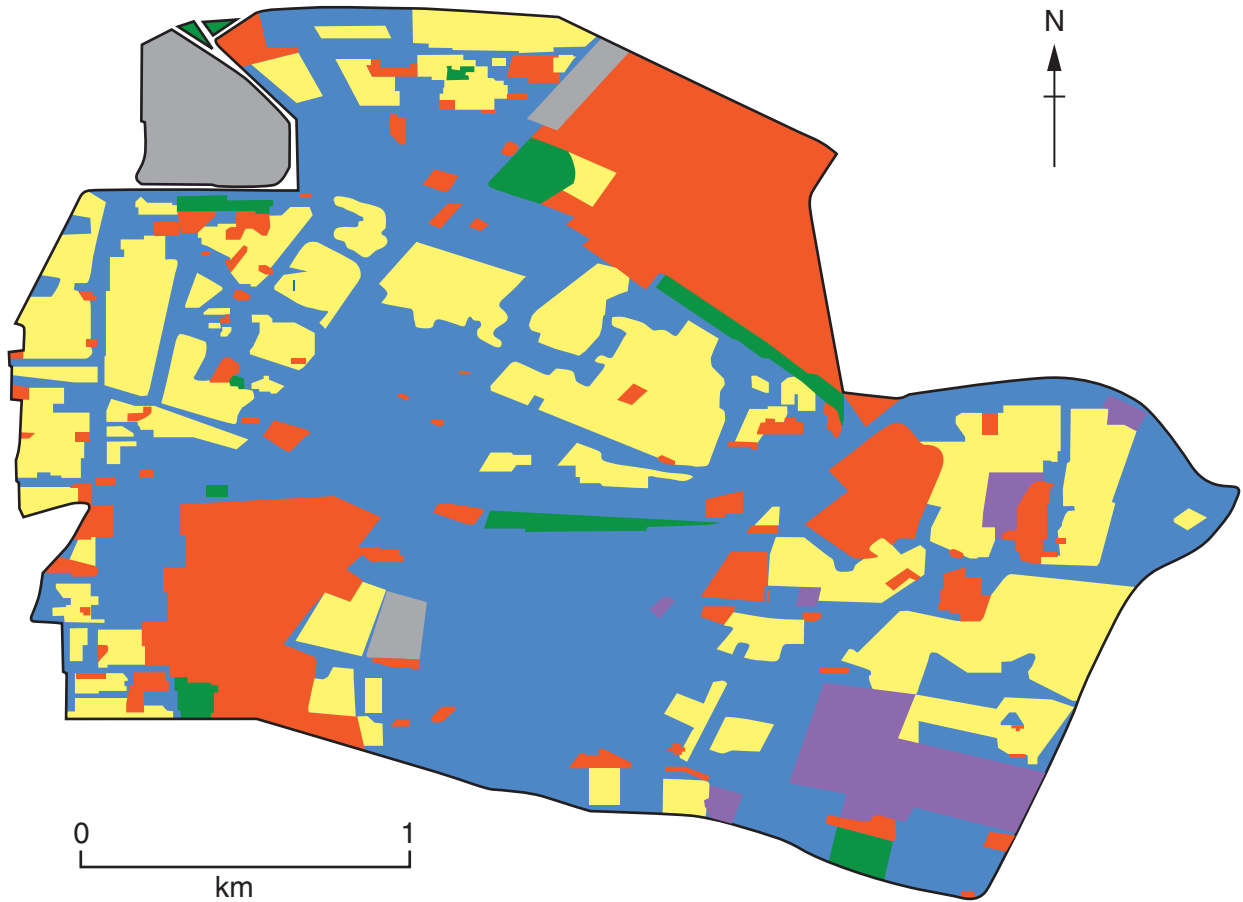


Fig. 8 for Question 9

Land use in the CBD of Bangalore, India, 2003



Key

- residential
- commercial
- public
- park
- industrial
- transportation

Fig. 9 for Question 9

The CBD of Bangalore, India

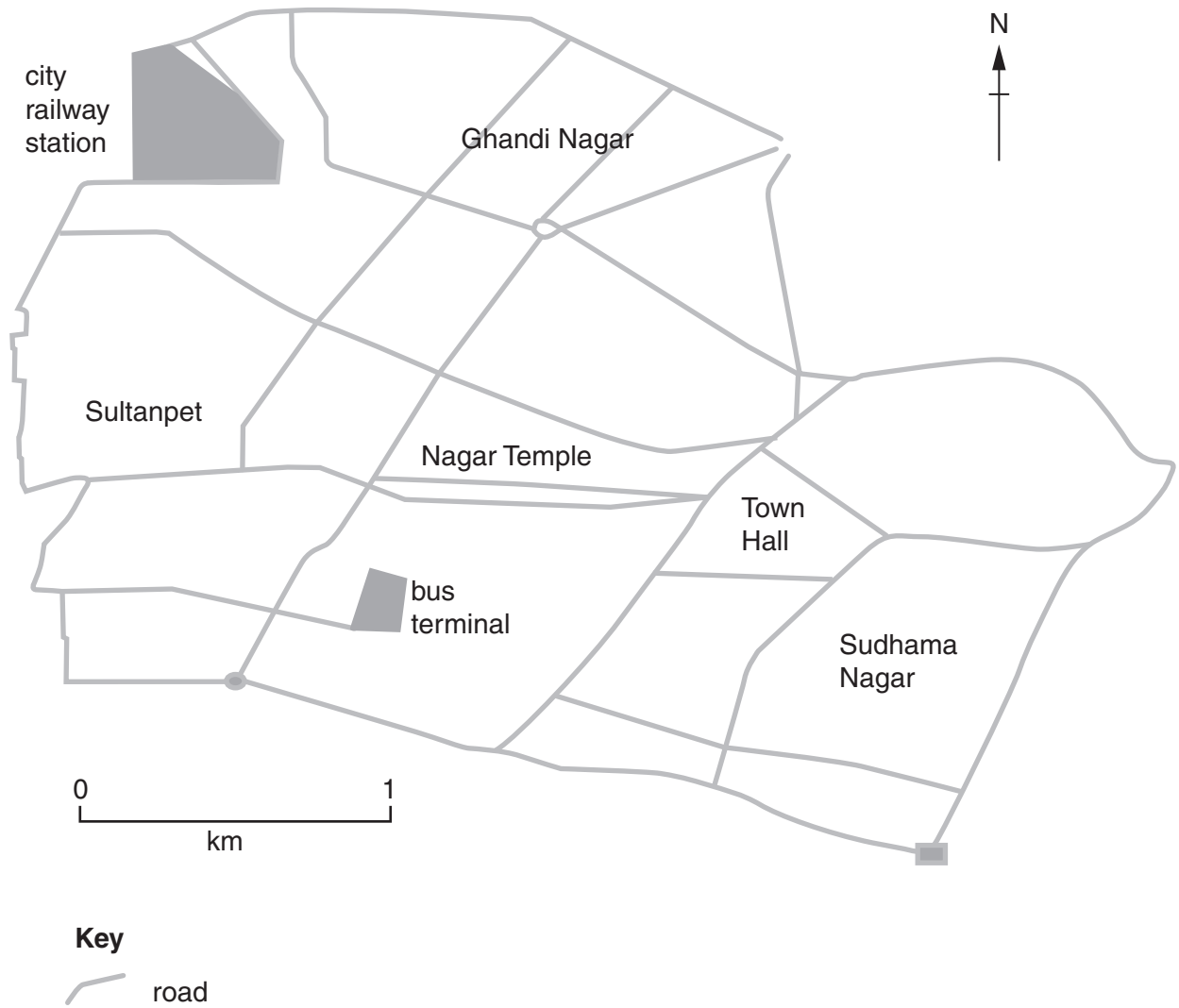
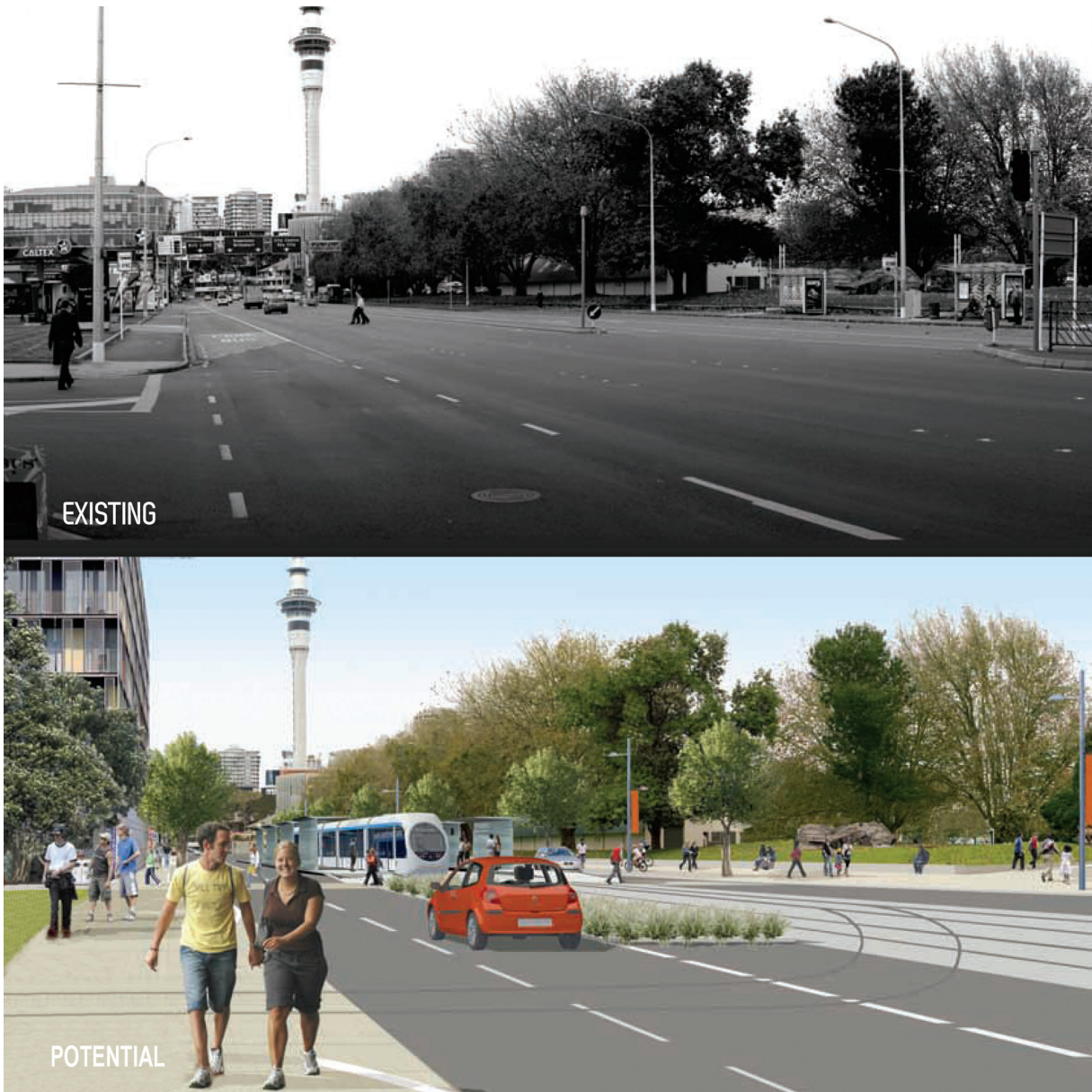


Fig. 10 for Question 10

Proposed changes to Quay Street in the CBD of Auckland, New Zealand



Copyright Acknowledgements:

- Question 1 Fig. 1 © Headley & Sale; *The Impact of Trampling By Student Groups on Saltmarsh Vegetation*; *Field Studies*; p. 521; 1999; http://fsj.field-studies-council.org/media/345035/vol9.3_254.pdf
- Question 1 Fig. 2 © *Saltmarsh Management Manual*; Environment Agency; 2007; ISBN 97818/4432714.
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- Question 5 Fig. 4 © http://awsassets.panda.org/downloads/1_lpr_2012_online_full_size_single_pages_final_120516.pdf
- Question 6 Fig. 6 © *The Dormouse Conservation Handbook*; English Nature; <http://publications.naturalengland.org.uk/publication/80018>
- Question 9 Figs 7, 8 & 9 © Mohammad Reza, Dr. Krishna Murthy Javaid Ahmad Tali, Dr. H. N. Nagendra; *Future Threats to CBD: A Case Study of Bangalore CBD*; Department of Studies in Geography and Institute of Development Studies; University of Mysore.
- Question 10 Fig. 10 © <http://www.aucklandcouncil.govt.nz/en/planspolicies/projects/plansstrategies/ccmp/Pages/home.aspx>

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