

# 15<sup>th</sup> International Geography Olympiad

Québec City, Canada 31 July – 6 August, 2018

# Written Response Test Resource Booklet

Do NOT open the Booklet before instructed to do so by a supervisor.

Do NOT write any of your answers in this Booklet.

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# **Section A: Population**

Figure A1: Population growth (annual %), 2015

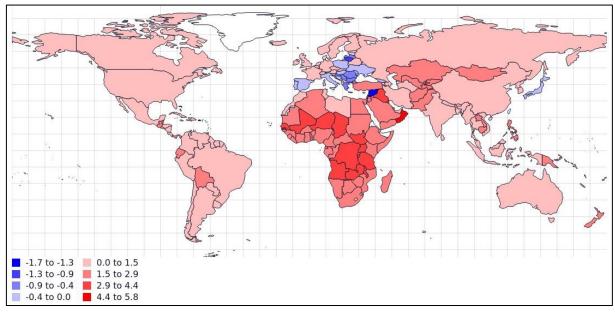


Table A1: Population data - selected years

Country	Ag	Age dependency ratio	dency ra	tio		Birth rate, crude (per 1,000 people)	e, crude ) people)		Popula	ition age (% of	Population ages 65 and above (% of total)	above		GDP per capita (current US\$)	capita t US\$)	
	1990	2000	2010	2015	1990	2000	2010	2015	1990	2000	2010	2015	1990	2000	2010	2015
А	52	51	49	51	17	14	13	13	13	12	13	15	23,955	23,955 36,450 48,374 56,116	48,374	56,116
В	23	54	51	22	14	12	13	12	16	16	16	18	19,096	19,096 27,770 38,709	38,709	43,876
3	43	47	25	64	10	6	6	8	12	17	23	56	25,124	25,124 38,532 44,508 34,524	44,508	34,524
Q	72	64	99	25	31	56	22	20	4	4	5	9	375	452	1,346	1,598
E	45	46	52	25	11	6	8	6	15	16	21	21	22,220	22,220 23,719 41,788 41,313	41,788	41,313
ч	52	46	32	28	21	14	12	12	2	7	8	10	318	959	4,561	8,028

#### Section B: Tourism: The Rise of Airbnb

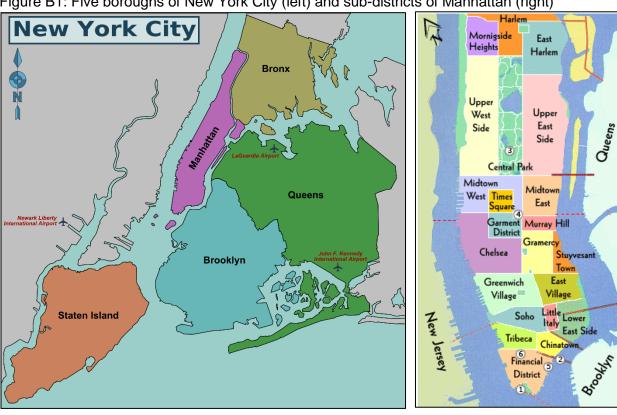
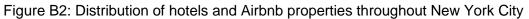
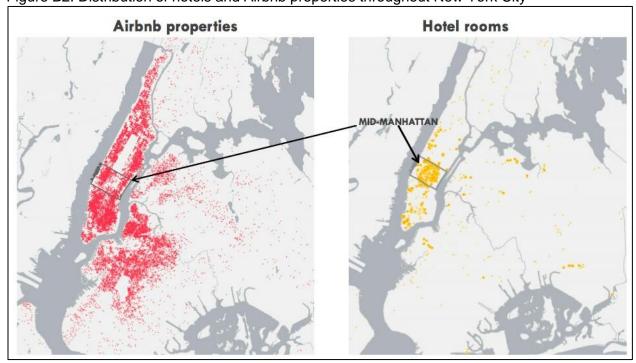


Figure B1: Five boroughs of New York City (left) and sub-districts of Manhattan (right)





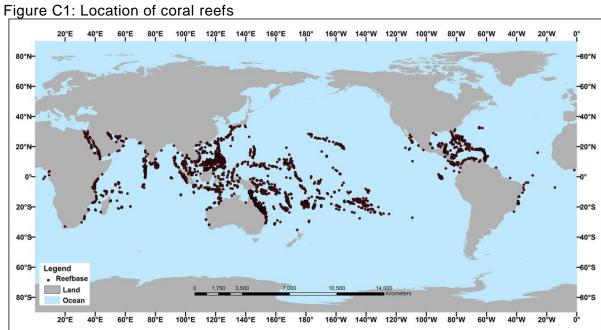
(https://www.airbnbcitizen.com/the-tremendous-impact-of-airbnb-in-new-york/)

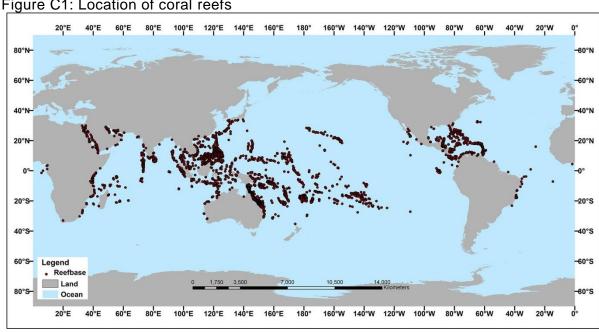
Figure B3: Airbnb protest in Barcelona in 2017



(http://www.independent.co.uk/travel/news-and-advice/barcelona-locals-hate-tourists-why-reasons-spain-protests-arran-airbnb-locals-attacks-graffiti-a7883021.html)

## Section C: Environmental Geography: Coral reefs





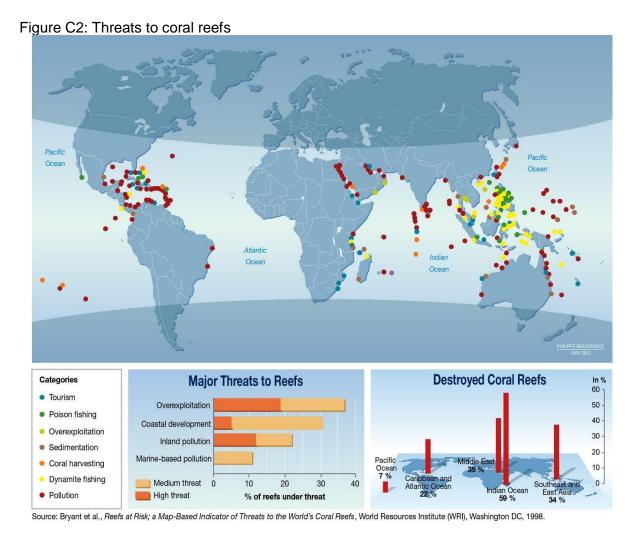


Figure C3: Photographs showing change in a coral reef

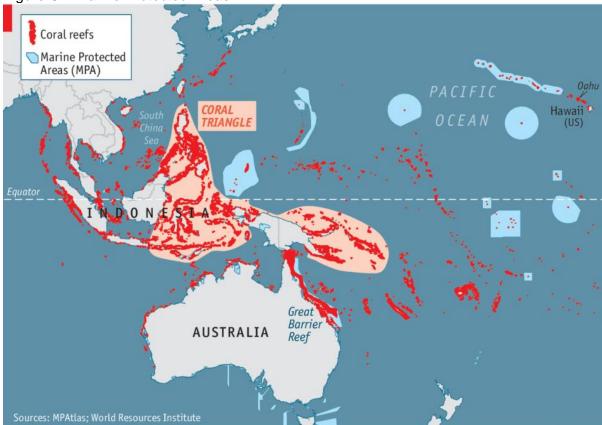
#### Photograph A

#### Photograph B





Figure C4: Marine Protected Areas



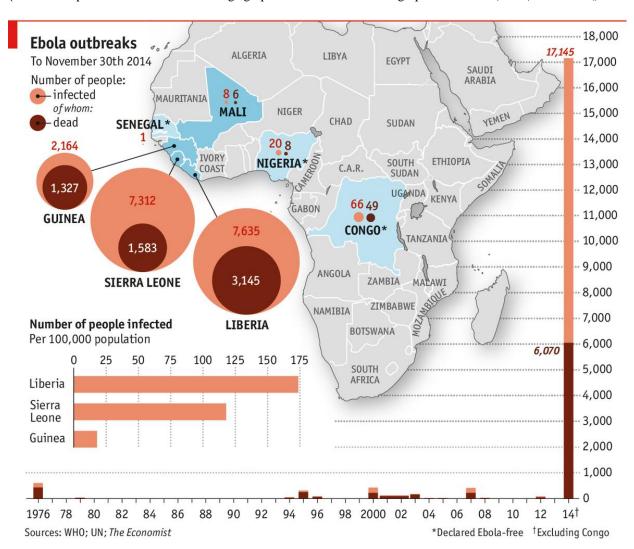
Economist.com

#### Section E: Ebola Outbreaks

Figure E1: Key facts on Ebola (Source: World Health Organization, WHO)

- Ebola virus disease is a severe, often fatal illness in humans.
- The virus is transmitted to people from wild animal hosts and spreads in the human population through human-to-human transmission.
- The first outbreaks, from 1976, occurred in remote villages in Central Africa, but the 2014-15 outbreak in West Africa has involved major urban as well as rural areas.
- The West African outbreak was declared over in June 2016.
- In May 2018, New cases of Ebola have been detected in the Democratic Republic of the Congo.

Figure E2: Distribution, frequency and magnitude of Ebola outbreaks to 30th November 2014 (Source: http://www.economist.com/blogs/graphicdetail/2014/12/ebola-graphics?fsrc=nlw|newe|13-10-2014|)



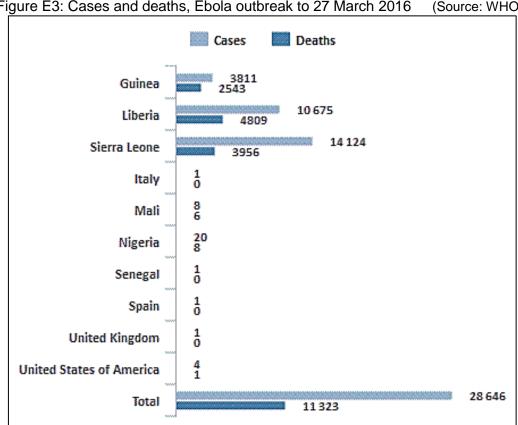
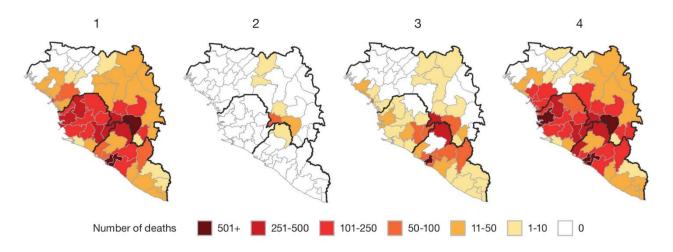


Figure E3: Cases and deaths, Ebola outbreak to 27 March 2016 (Source: WHO)

Figure E4: Time series of cumulative Ebola deaths in the districts of Guinea, Liberia, and Sierra Leone, 2014-15 (Source: WHO and Humanitarian Data Exchange)



## **Section F: Glaciers**

Figure F1: Photographs of main types of glaciers

Selected example of a continental glacier



Selected example of a valley glacier



Figure F2: Global Glacier Thickness Change (Source: M. Dyurgerov, Institute of Arctic and Alpine Research, University of Colorado, Boulder, CC BY)

It shows average annual and cumulative glacier thickness change of mountain glaciers of the world, measured in vertical metres, for the period 1961 to 2005.

#### Global Glacier Thickness Change

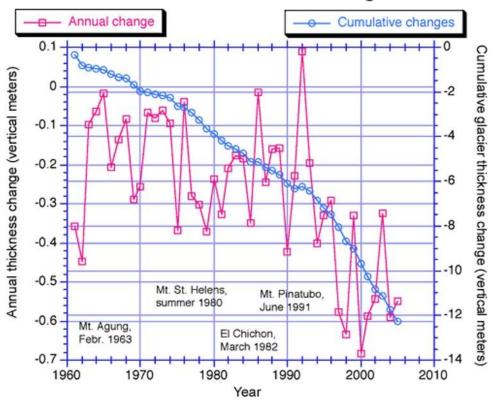


Figure F3: Climatic snow line

