## - Climate Change in Japan -



Climate change, one of the biggest challenges of the 21st century,/ is affecting/ both the environment and people's lives in Japan.//

The **average annual** temperature has increased by 10 Celsius/ in Japan//over the last century.// The number of days with **maximum** temperatures higher than 35° Celsius has increased.// Days with heavy rain and days with no rain at all have also increased.// These cause more **heatwaves**,/ putting **vulnerable** groups, such as the elderly, at high **risk**.//

Along Japan's coast,/ sea levels have been rising 5 mm per year/ since 1993.// Scientists estimate that / for every one-meter rise in sea level,/ there is risk to assets worth US\$1 trillion /due to storm surges, typhoons, and coastal erosion.// Infectious and allergy-related diseases are more likely to spread.// Although there is a potential temporary increase in grain harvest yield /in Hokkaido,/ a 40% reduction in rice yields /in central and southern Japan / will result in an overall loss.// Some plants, birds, and insects are also in danger of becoming extinct / due to unfavorable weather.//

21 世紀最大の課題の一つである気候変動は/影響を与えている/ 日本の環境と人々の生活の両方に//

年間平均気温は IO℃上昇した/日本の/過去 I 世紀で//最高気温が 35℃を超える猛暑日数が増加してきている//大雨の日や全く雨が降らない 日もまた増えてきている//これが熱波を頻発に引き起こし/高齢者などの 脆弱なグループを高いリスクにさらしている//

日本の沿岸では/海面が年に 5mm ずつ上昇している/1993 年以降//科学者たちは推定している/海面が I メートル上昇するごとに/ I 兆ドル相当の資産が危険にさらされると/高潮や台風、海岸浸食によって//感染症やアレルギー関連疾患の蔓延も懸念されている//高潮や台風、海岸浸食によって//一時的に穀物収量の増加が見込まれるものの/北海道で、/米の収穫量が 40%減少し/中央および南日本では/全体的な損失となる//一部の植物や鳥、昆虫は、また、絶滅の危機に瀕している/好ましくない天候のために//

## Vocabulary and Phrases

climate change average annual maximum heatwaves vulnerable risk coast estimate assets worth storm surges	気( 気( 気( 変動) 平年最大 でである。 でである。 高潮	coastal erosion infectious allergy diseases temporary harvest yield reduction extinct	沿伝ア疾時収収減絶侵をいずなりでである。

Total Number of words used

: 175 words

Time for 100 wpm

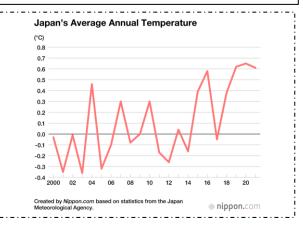
: 105 sec.

Time for 120 wpm

: 88 sec.

Your BEST TIME

: \_\_\_\_\_ sec.



\*裏面の問題は音読を毎回 40 分以上反復してから挑戦しましょう\*

(Listen & Fill Blank)	[Q&A / A&Q]
Climate change, one of the biggest of the 21st	Question 1: "Days with no rain have decreased."  (a) True (b) False
, is affecting both the environment and people's lives in	
Japan.	
The average temperature has increased by $1^0$	Question 2: Give the example of vulnerable group mentioned in the lesson.
in Japan over the last century. This means that there are	
more hot days, with temperatures even higher than 350	
Celsius. Days with rain and days with no rain at all have	
also increased. These cause more, putting	Question 3: Every year, how much sea water level has risen since 1993?
groups, such as the elderly, at high risk.	
Along Japan's coast, sea level has been rising 5 mm per year since 1993.	
Scientists that for every one-meter rise in sea level, there is	Ask 1: 摂氏 1 度という答えを持つ質問をする。
risk to worth US\$1 trillion due to storm,	
typhoons, and coastal Infectious and allergy-related	
diseases are more likely to Although there is a potential	Ask 2: 授業の中で、気候変動によって蔓延する可能性の高い病気について質
temporary increase in grain yield in Hokkaido, a 40%	問する。
reduction in rice yields in central and southern Japan will result in an	
loss. Some plants, birds, and insects are also in danger of	
becoming due to unfavorable	<b>Ask 3</b> : 気候変動についてどんな質問でもしてください。

Sample Answer 1: (b) False.
Sample Answer 2: Elderly.
Sample Answer 3: 5 mm.
Sample Question 1: By how much has the average annual temperature increased over the last century?
Sample Question 2: What kind of diseases are more likely to spread due to climate change?
Sample Question 3: What do you think is the most dangerous impact by climate change? / What can general people do to solve climate change?