

BACCALAUREAT GENERAL ET TECHNOLOGIQUE

EPREUVE SPECIFIQUE MENTION « SECTION EUROPEENNE OU DE LANGUE ORIENTALE » Binôme : Anglais / SVT

Thème 2 – Enjeux planétaires contemporains

2-B – Les climats de la Terre : comprendre le passé pour agir aujourd'hui et demain

How will global warming harm human health ?

Using the documents and your knowledge, show how climate change impacts human health then discuss three solutions to climate change.

Document 1. Malaria in Europe : emerging threat or minor nuisance ?

Malaria, a vector-borne disease, was eradicated from Europe in the 1970s through a combination of insecticide spraying, drug therapy and environmental engineering. Since then, it has been mostly imported into the continent by international travellers and immigrants from endemic regions. Despite the substantial number of imported malaria cases and the documented presence of suitable anopheline vectors, autochthonous transmission has not

- 5 been widely observed in Europe, probably as a result of early diagnosis and treatment, afforded by efficient healthcare systems. Current climatic conditions are conducive to malaria transmission in several areas of Southern Europe, and climate change might favour mosquito proliferation and parasite development, further facilitating malaria transmission. Temperature is a major regulator of malaria transmission, as it affects mosquito survival and development, whereas rainfall and geomorphology determine the availability of mosquito reproduction sites. The
- 10 climate in Southern European countries around the Mediterranean, where winters are generally mild and wet and summers hot and dry, has been and still is suitable for malaria transmission.

https://www.sciencedirect.com/science/article/pii/S1198743X16301203

Document 2. Human Health Impacts of Climate Change in Europe.



Document 2a. Global mean temperature change under three alternative emissions scenarios.



Document 2b. EU total climate change-attributable mortality (all causes, per year).

Adapted from the Report for the PESETA II project at <u>https://ec.europa.eu/irc/en/publication/eur-scientific-and-technical-research-reports/human-health-impacts-climate-change-europe-report-peseta-ii-project</u>