

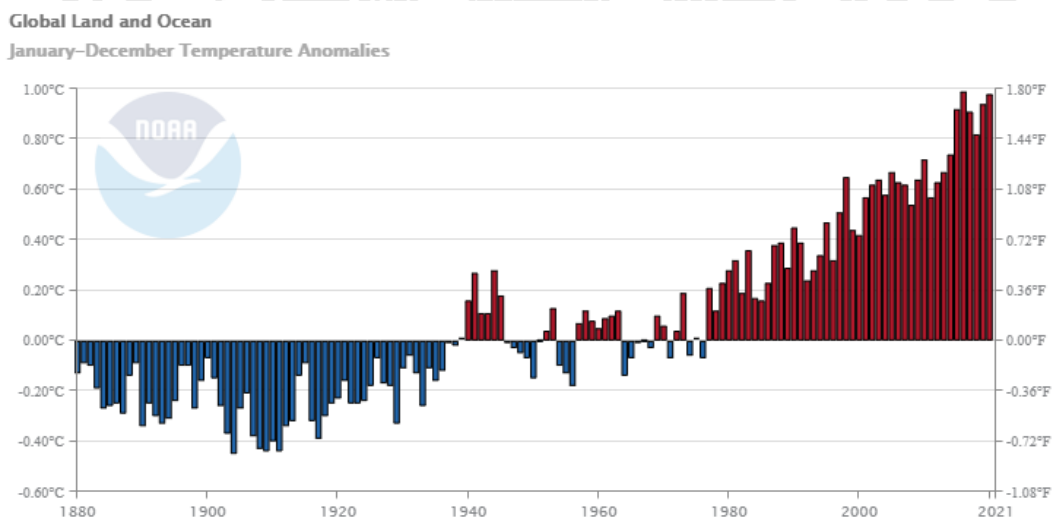
PHYSIKALISCHES KOLLOQUIUM

AM 25. OKTOBER 2021 UM 17 UHR C.T.

LIVESCHALTUNG VIA ZOOM

AKTUELLE INFORMATIONEN FINDEN SIE HIER:

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THE CHALLENGE OF LONG-TERM CLIMATE CHANGE

MOJIB LATIF

UNIVERSITÄT KIEL +

GEOMAR HELMHOLTZ-ZENTRUM FÜR OZEANFORSCHUNG KIEL

The 20th and 21st century climate exhibits a strong warming trend in globally averaged surface temperature, which is unprecedented during the last millennia. There is a broad scientific consensus that the warming is largely due to the increase of the atmospheric greenhouse gas concentrations, especially the concentration of carbon dioxide, due to anthropogenic emissions. In response to the global surface warming, weather extremes are becoming more frequent and intense. This concerns heat waves as well as heavy precipitation events.

The talk provides a brief history of global warming research, explains how climate models work, and in which manner global warming can be attributed to human activities, specifically the emissions of heat-trapping greenhouse gases.