

## Climate change knows no borders

### Workshop 9: Climate change



## Why are we all here?

We want to talk about climate change...





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## Interactive quiz





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- The most recent seven years, 2015 to 2021, are the seven warmest years on record.
- The average global temperature in 2021 was about 1.11 (± 0.13) °C above the pre-industrial level.



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## Fixed maximum temperature rise?

#### CLIMATE ACTION TRACKER



- The 1.5-degree limit will be missed under current policies.
  → 3 °C until 2100
- Achievement of the 1.5 °C possible as early as 2026



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## Impact of global warming





**IN CORAL REEFS** 

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## Arctic sea ice development

#### Sea ice surface in the Arctic Ocean



Grafik: Roessler, Team Polar and Cold Regions (DLR-EOC)

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### Temperature



?



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## Explanation parts per million



Carbon dioxide remain in the atmosphere for up to 2000 years

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# Development of carbon dioxide concentration



Annual average 2021: 414,7 ppm

→ highest value in at least a million years!



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## Greenhouse gas emissions by sector





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# So, what can we do about climate change?

Answers to this question should be worked out later in the Workshop.

However, one thing is for sure: We have to tackle it together – NOW! Everyone should try to make their contribution.



#### Let's get started TOGETHER! ③



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## Thank you 😳

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