

# Air quality during aerosol episodes

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## Introduction

During Saharan dust outbreaks, the air quality degrades in central Europe. This often leads to the violation of air quality standards in Germany. These standards will become more restrict by 2030.

## Research question

What is the effect of natural aerosols on air quality in Germany post 2030?

## Working plan

- Step 1: Literature review, learning ICON-ART and dust processes
- Step 2: Analysis of station data and performing numerical experiments
- Step 3: Validation of the results, writing of thesis

## Requirements

- Motivation, self-organization and team work
- Programming: Python (basic), shell & unix (basic)

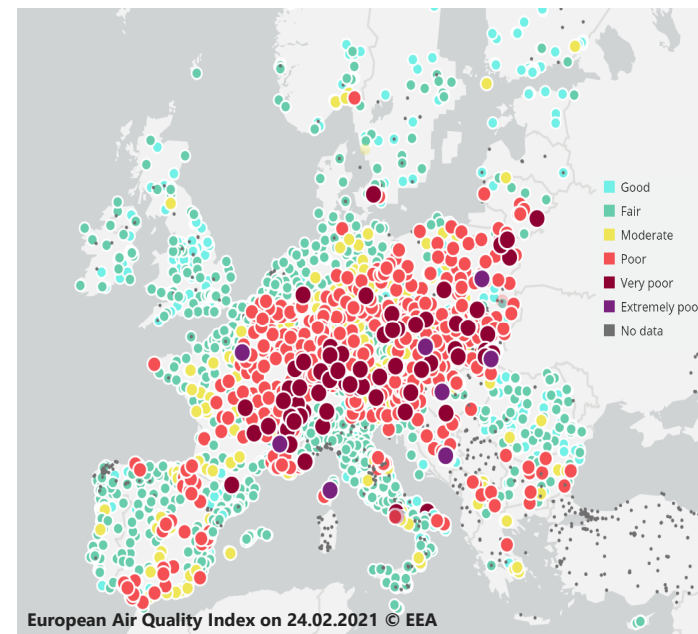


Fig. 1: EU air quality during Saharan dust outbreak on 24.02.2021  
<https://airindex.eea.europa.eu>