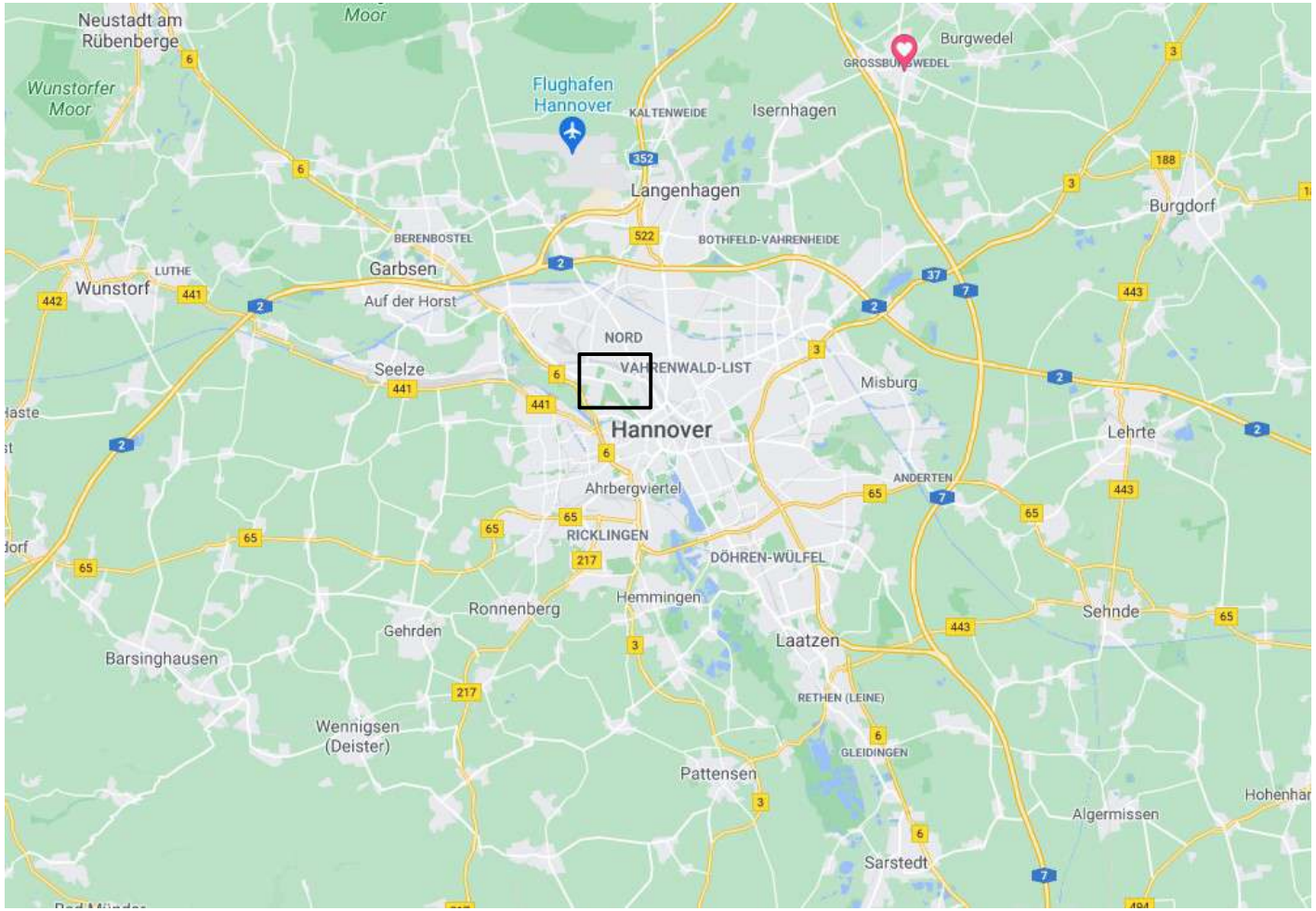
Meteorology at Leibniz University Hannover

Prof. Dr. Björn Maronga

Meteorology at Leibniz University Hannover



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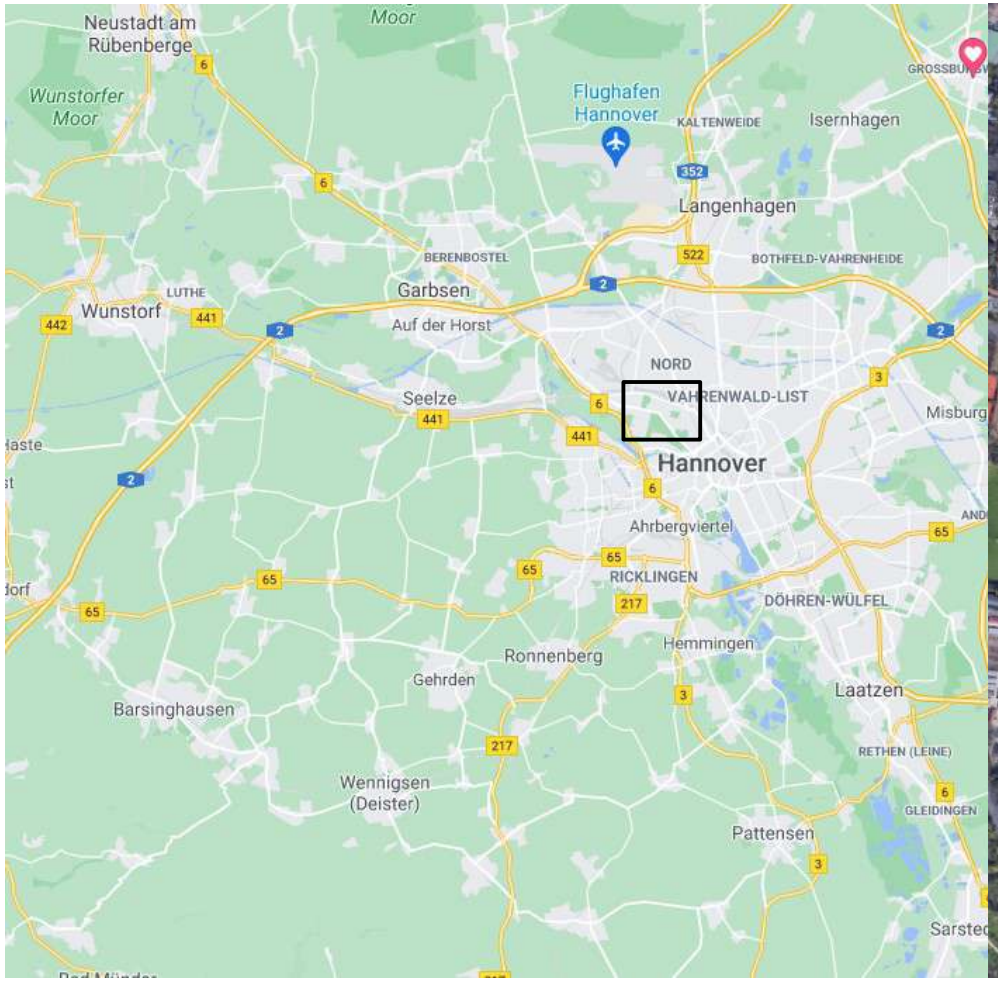


Meteorology at Leibniz University Hannover

Infrastructure

- 2 measurement sites

Herrenhausen (urban)

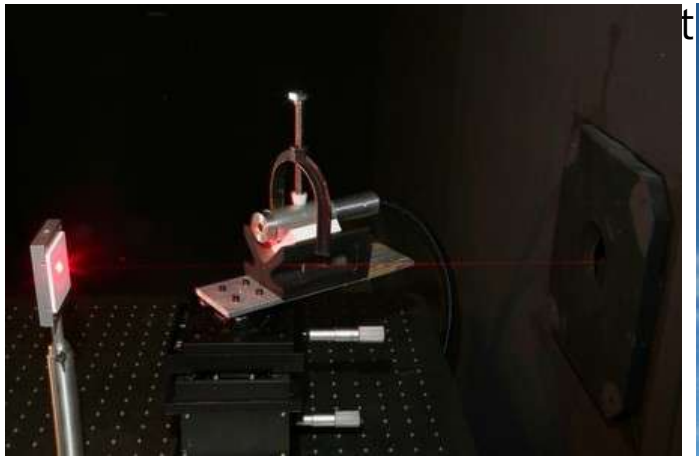
Ruthe (rural)

Meteorology at Leibniz University Hannover

Infrastructure

- 2 measurement sites

- Roof-top platform
- Radiation lab
- Multicopter UAVs



Meteorology at Leibniz University Hannover

Staff

- Faculty:

Prof. Dr. Günter Groß

Environmental Meteorology & Climatology

Prof. Dr. Björn Maronga
apl. Prof. Dr. Siegfried Raasch

Boundary-layer Meteorology

Prof. Dr. Gunther Seckmeyer

Radiation & Remote Sensing

- Scientific staff:
  - 5 Postdocs
  - 18 PhD students

- Other staff:
  - 6 Permanent positions in administration, IT, and engineering

Study programme (current)

Bachelor Meteorology (German, 6 semester)

- Mathematics
- Physics
- Meteorology

30-40 first semester students / < 10 graduates

Master Meteorology (German/English, 4 semester)

- Meteorology
- Research-oriented
- One year Master thesis work

about 10 first semester students / ~ 5 graduates

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today




since 07/2021

Study programme (future)

2028

?

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Study programme (future)

Bachelor Environmental Meteorology (6 semester)

- Mathematics & Physics
- Meteorology
- Environmental sciences
- Engineering

Master Environmental Engineering

- Computational fluid mechanics
- Numerical boundary-layer meteorology
- Renewable energies
- Environmental sciences
- Semester abroad
- One semester Master thesis work

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2028

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Boundary-Layer Meteorology – The PALM group

- Turbulence in the atmospheric boundary layer
- Turbulence-resolving simulations
- Headquarters of the PALM model system (http://palm-model.org)

- Group:
  - Siegfried Raasch (head)
  - Björn Maronga (co-head since Juli 2021)
  - 5 Postdocs
  - 9 PhD students
  - 3 Master students

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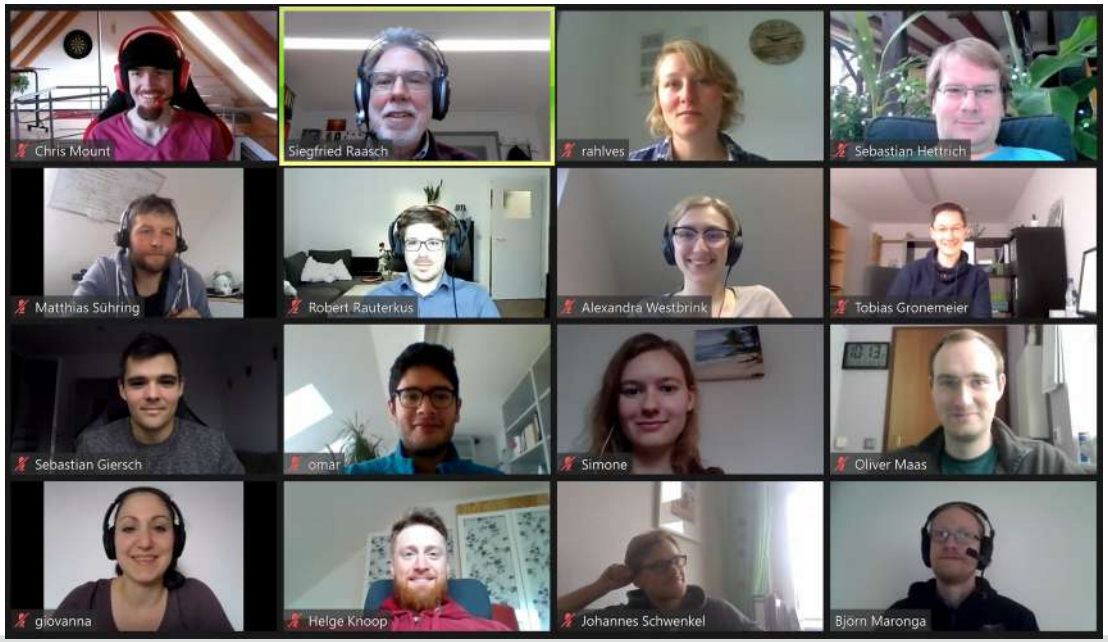
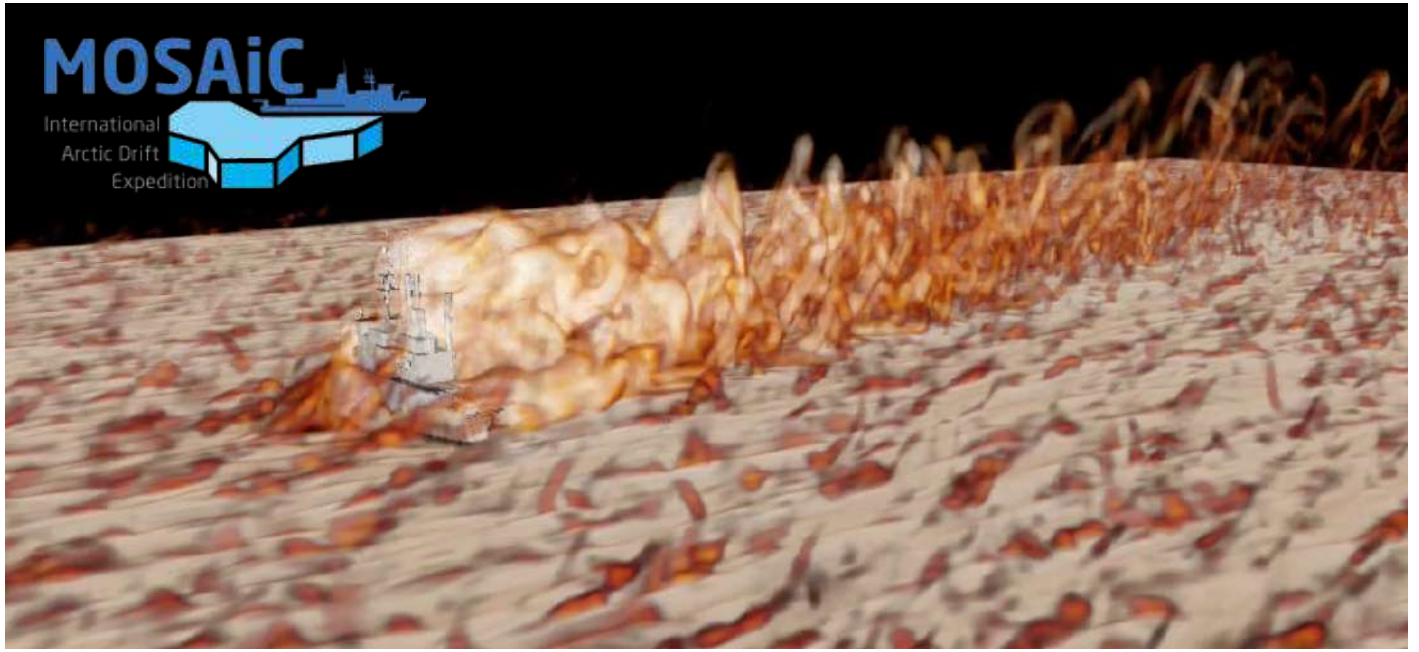
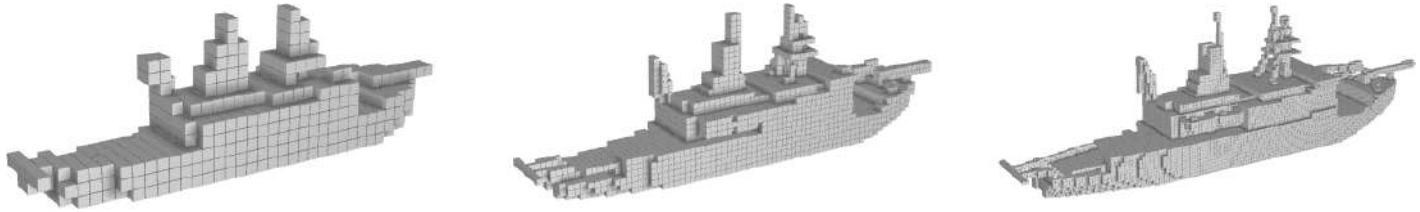


Boundary-Layer Meteorology – The PALM group

- Current projects and topics

Wake effects of RV Polarstern during MOSAiC

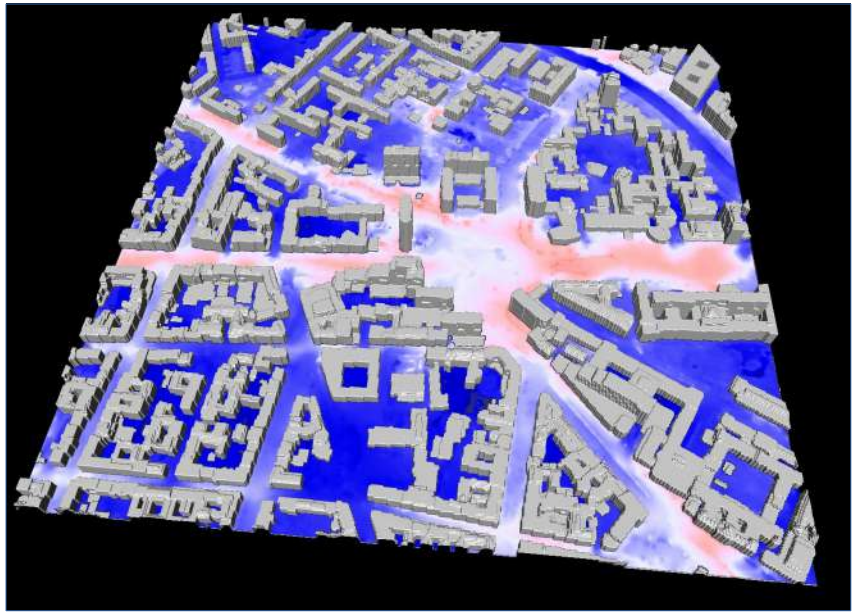




Boundary-Layer Meteorology – The PALM group

- Current projects and topics

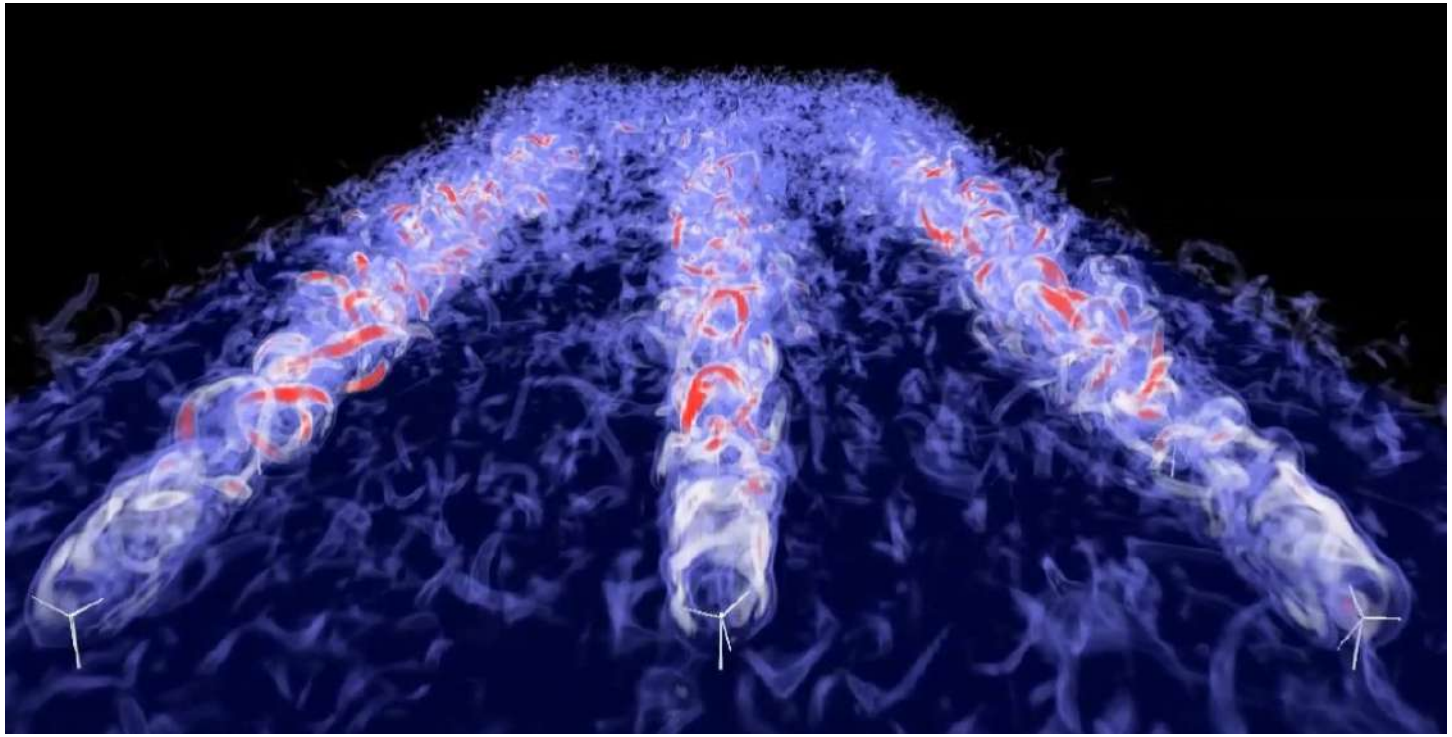
Urban climate modeling



Boundary-Layer Meteorology – The PALM group

- Current projects and topics

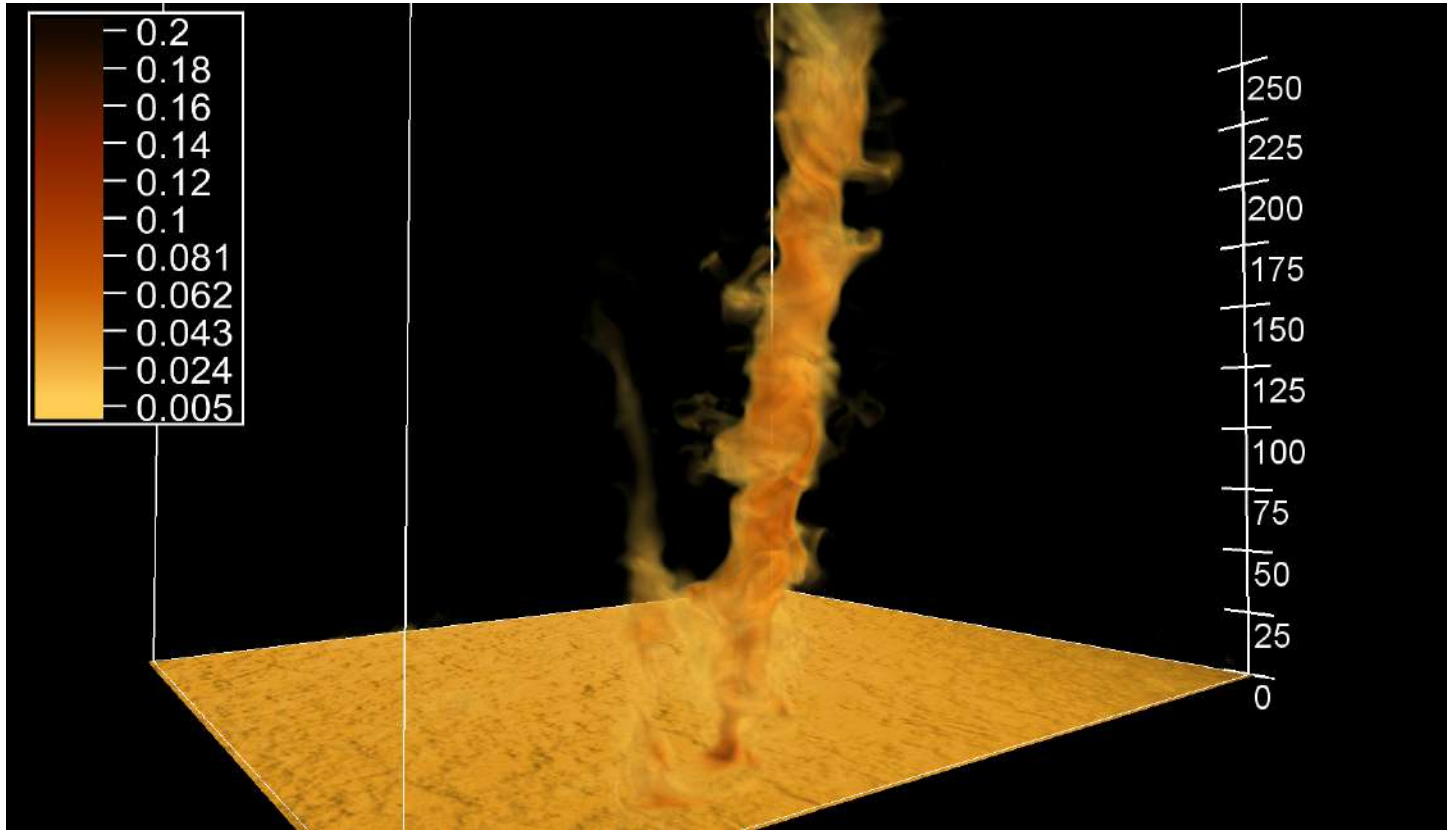
Renewable energies



Boundary-Layer Meteorology – The PALM group

- Current projects and topics

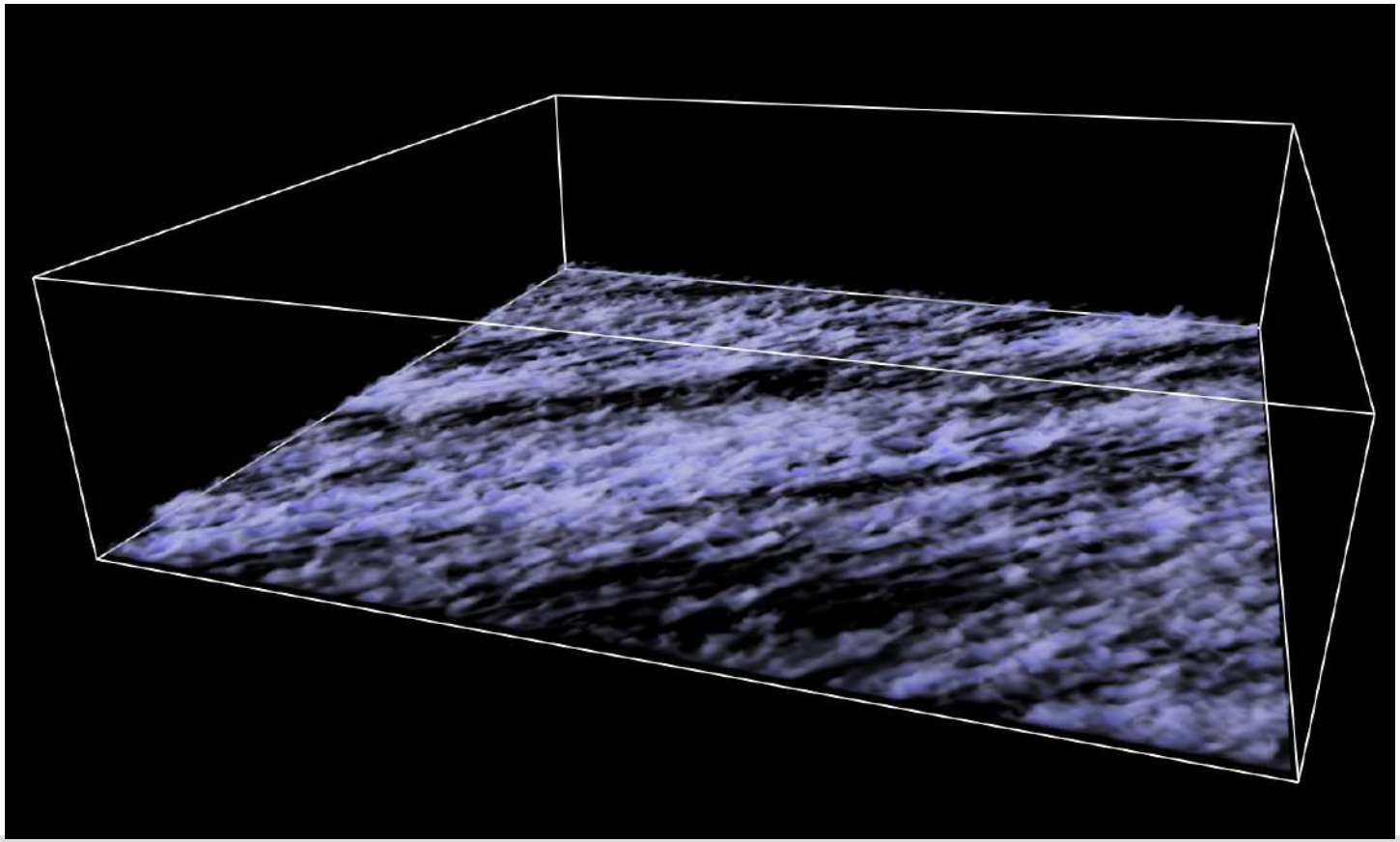
Small-scale coherent structures (e.g. dust devils)



Boundary-Layer Meteorology – The PALM group

- Current projects and topics

Turbulence effects in radiation fog



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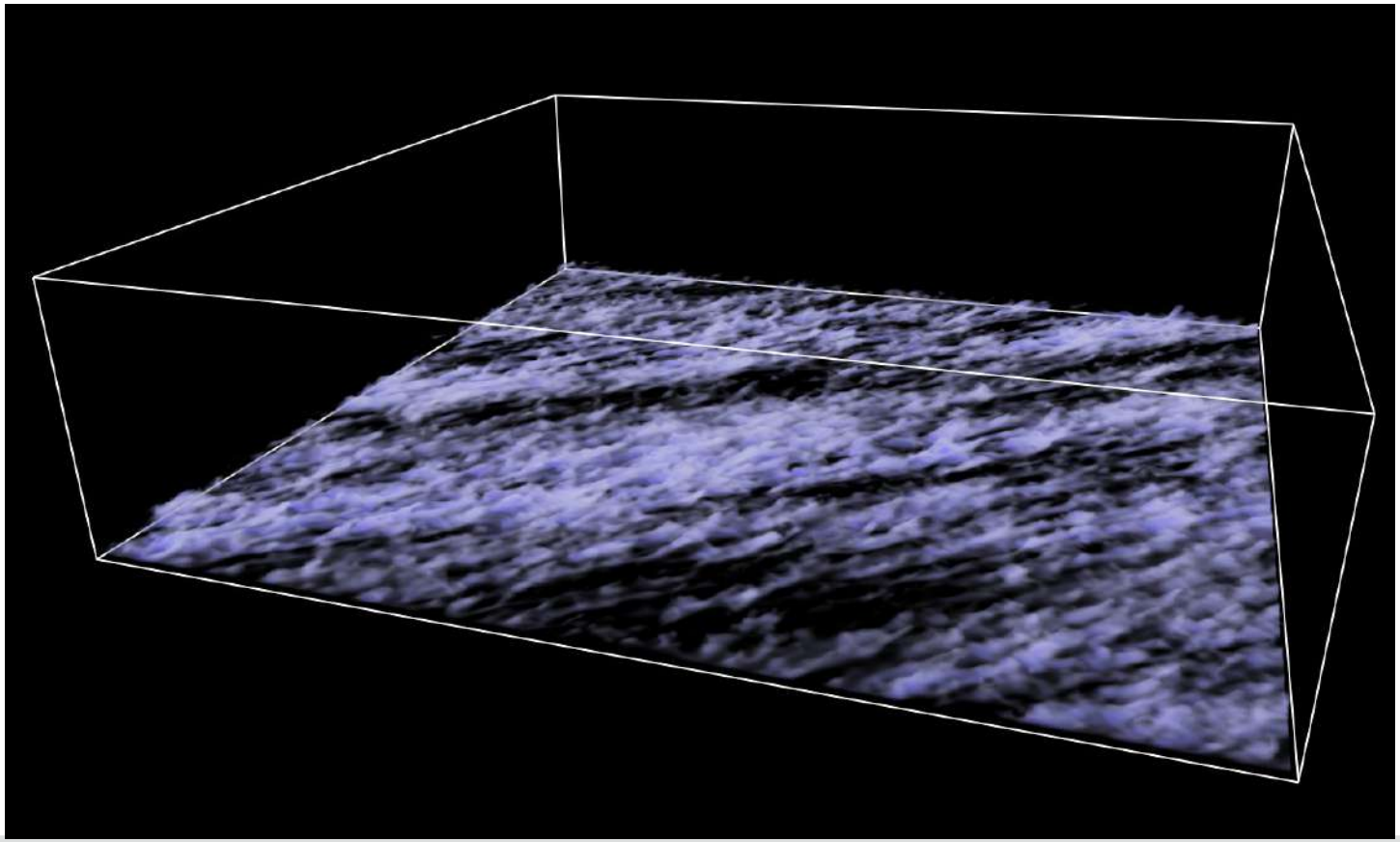
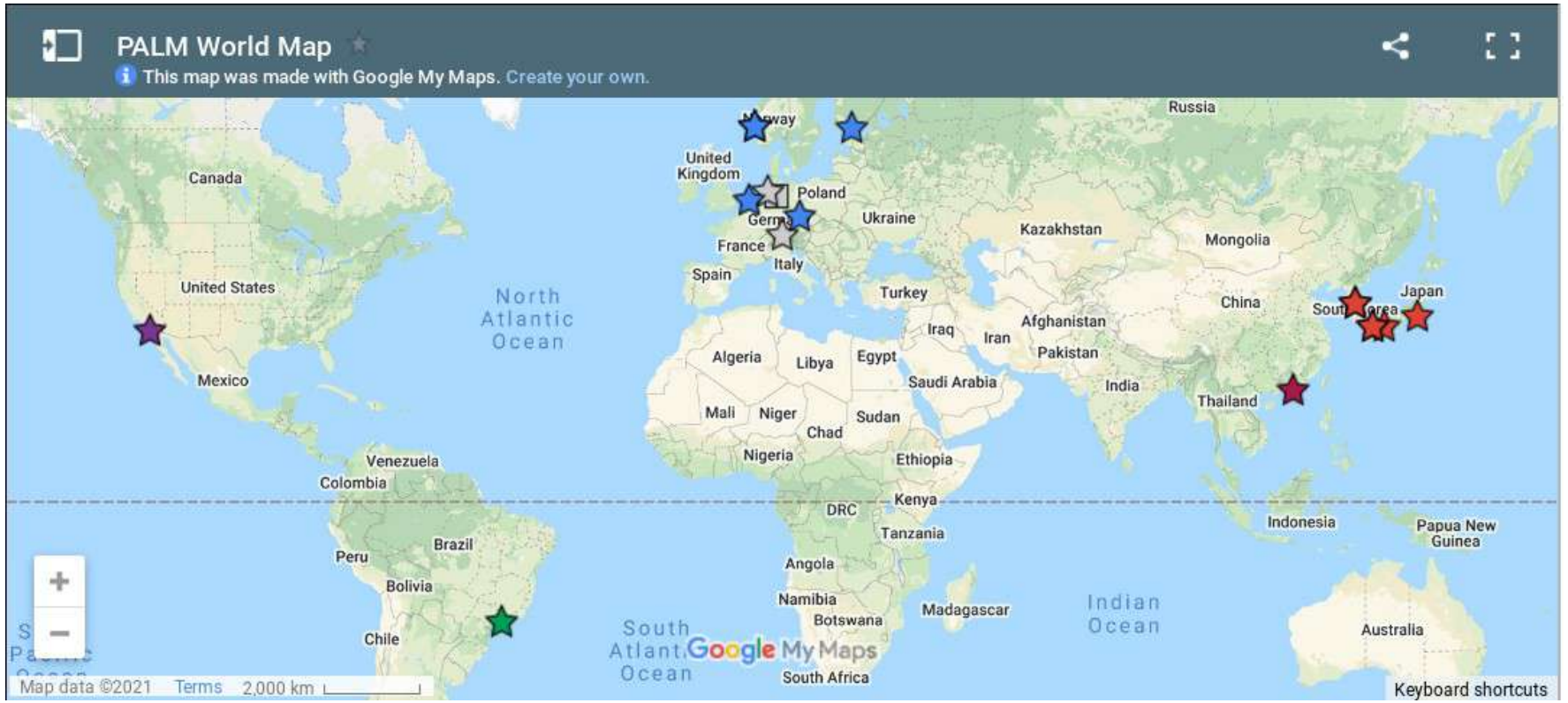


Boundary-Layer Meteorology – The PALM group

- International cooperations (selection)



Boundary-Layer Meteorology – The PALM group

- International cooperations (selection)
  - **Prof. Joachim Reuder,** University of Bergen, Norway
  - **Prof. Dan Li,** Boston University, USA
  - **Dr. Antti Hellsten,** Finnish Meteorological Institute, Finland
  - **Prof. Leena Järvi,** Helsinki University, Finland
  - **Dr. Jaroslav Resler,** Czech Academy of Sciences, Prague
  - **Dr. Bosveld,** Royal Netherlands Meteorological Institute, Netherlands
  - **Dr. Arnold Moene,** Wageningen University, Netherlands
  - **Prof. Yign Noh,** Yonsei University, Republic of Korea
  - **Prof. Gilberto Fisch,** Universidade de Taubate, Brazil