The Long Program draft schedule includes seminars on Monday and Wednesday at 9am streamed on-line. We will also organize one (or two, depending on request) seminar(s) a week in the afternoon without streaming for participants who wish to present their work/ideas and are not included in this or in the conference lists.

Week 2:
11/08 Monday  Dmitri Kondrashov (confirmed)
*Data-driven stochastic climate modeling and prediction*
11/10 Wednesday  Deborah Khider
*The challenges of using paleoclimate data for decadal prediction*

Week 3:
11/15 Monday  Brian White (confirmed)
*Deep learning applications for climate and weather modeling: toward improvements in speed, resolution and scenario generation*
11/17 Wednesday  Andreas Gerhardus (confirmed)
*Recent developments in causal discovery for time series*

Week 4:
11/22 Monday  Bia Villas Boas (confirmed)
*From noise to signal: what surface waves can teach us about currents*
11/24 Wednesday  Raf Ferrari (remote)
*New approaches to calibration of parameterizations of boundary layer turbulence*

Week 5:
11/29 Monday  Freddy Bouchet (confirmed)
*Predicting extreme heat waves using rare event simulations and deep neural networks*
12/01 Wednesday  Markus Abel (confirmed)
*Symbolic regression and mathematical postprocessing for machine learning of (climate) dynamics*
<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/06</td>
<td>Monday</td>
<td>Julien Brajard</td>
<td>Bridging observations and numerical modelling using machine learning</td>
</tr>
<tr>
<td>12/08</td>
<td>Wednesday</td>
<td>Alex Robel</td>
<td>Statistical learning of climate for large ensemble ice sheet simulations</td>
</tr>
<tr>
<td>12/13</td>
<td>Monday</td>
<td>Frank Kwasniok</td>
<td>Data-driven deterministic and stochastic subgrid-scale parametrization in atmosphere and ocean models: a pattern-based approach</td>
</tr>
<tr>
<td>12/15</td>
<td>Wednesday</td>
<td>Yan Liu</td>
<td>Differential Graph Neural Networks for Physics-Informed AI Models</td>
</tr>
</tbody>
</table>