

## SPECIAL PROJECT FINAL REPORT

All the following mandatory information needs to be provided.

<b>Project Title:</b>	EC-Earth3 contribution to Polar Amplification Intercomparison Project (PAMIP)
<b>Computer Project Account:</b>	spdklang
<b>Start Year - End Year :</b>	2021 - 2021
<b>Principal Investigator(s)</b>	Peter L. Langen
<b>Affiliation/Address:</b>	Aarhus University, Denmark Frederiskborgvej 399 4000 Roskilde, Denmark
<b>Other Researchers (Name/Affiliation):</b>	N/A

The following should cover the entire project duration.

## **Summary of project objectives**

Confounding impacts of many simultaneous ongoing changes affect the observed, real-world polar amplification leaving a clear decomposition of the response near impossible. The Polar Amplification Intercomparison Project (PAMIP) has been designed to remedy this by supplying detailed experimental protocols and input datasets to allow for proper intercomparability between model results making data available through the CMIP6 infrastructure.

This special project covers only the Tier 1 experiments (plus two experiments from Tier 2), consisting of a set of atmosphere-only experiments designed to allow analyses of the relative roles of SST and sea ice changes in the past and future in determining Arctic temperatures and Arctic-midlatitude-communication.

## **Summary of problems encountered**

Unfortunately, it has become clear that I will be unable to raise the salary I needed to get a post doc or research assistant to work with me on this project. When I submitted my annual report this summer, I was still optimistic, but different turns of events have meant that I now have to face the fact that I will not be able to use the hours in a meaningful way.

Instead of keeping the resources, hoping to be able to spend some or most of them towards the end of the project, I will rather terminate the project and release the resources for others to use. And then I will apply for another project this summer if relevant.

## **Experience with the Special Project framework**

The application procedure was smooth and easy.

The support during the project period has been excellent, both in relation to set up and registration and in terms of technical support.

## **Summary of results**

(This section should comprise up to 10 pages, reflecting the complexity and duration of the project, and can be replaced by a short summary plus an existing scientific report on the project.)

Since we did not start the experiments, there are no results.

## **List of publications/reports from the project with complete references**

None

## **Future plans**

No concrete plans at this point. But I am so happy with the computing resources and the support, that I definitely plan to apply later, when something more concrete comes up.