NORCE

PolarRES
Exploring future polar climates

PolarRES: a brief introduction

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The PolarRES Project

Polar Regions in the Earth System

Project name:
Polar Regions in the Earth System

Duration:
01.09.2021- 31.08.2025

Budget:
~ EUR 8 million

Consortium:
17 Consortium members

Coordinator:
Dr. Priscilla A. Mooney

Contact:
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PolarRES has received funding from the European Unions Horizon 2020 Research and Innovation Programme under Grant Agreement No. 101003590

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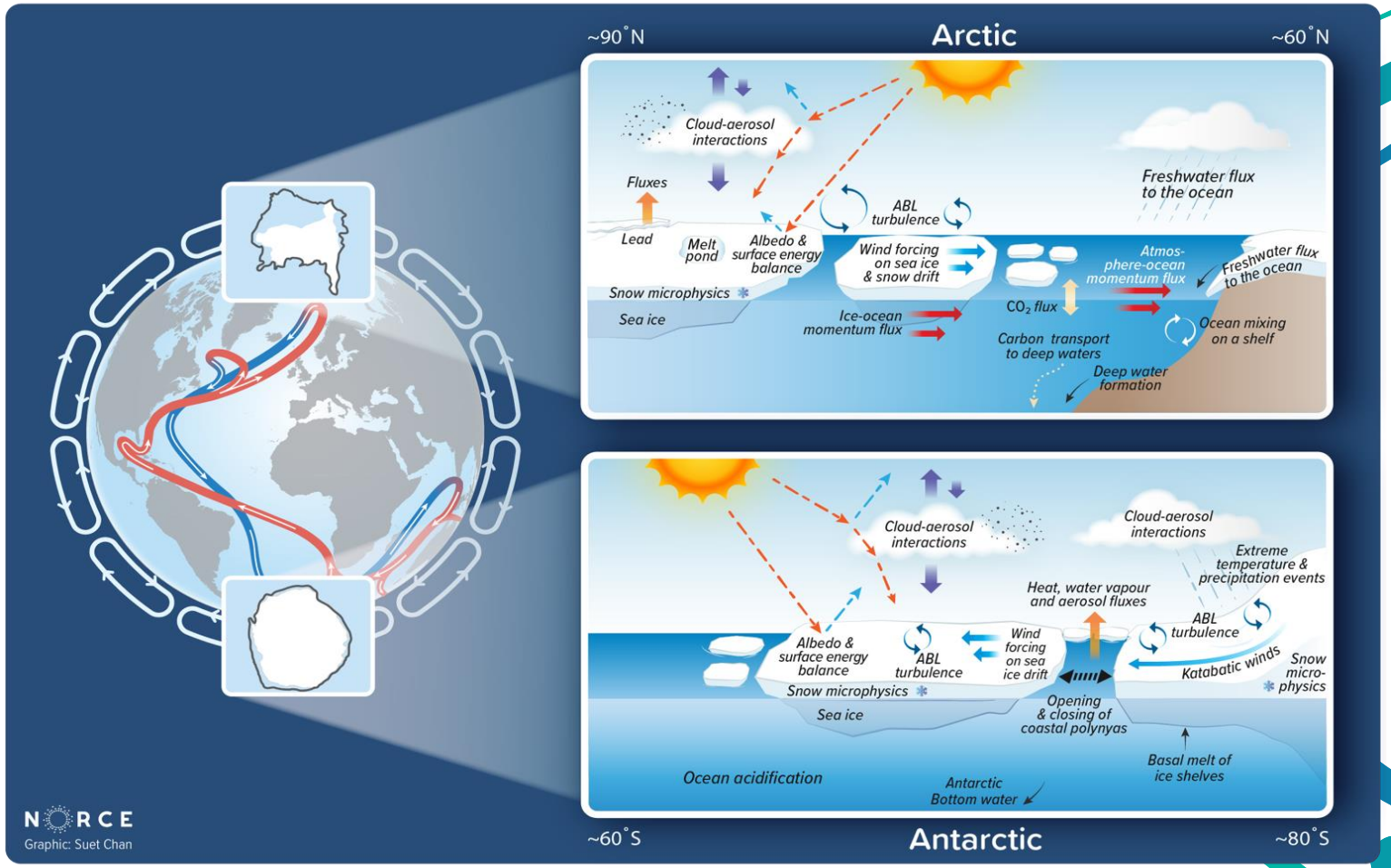
Core Ambition

To improve regional climate information for impact assessments in the Arctic and Antarctic



Innovative hi-res climate projections

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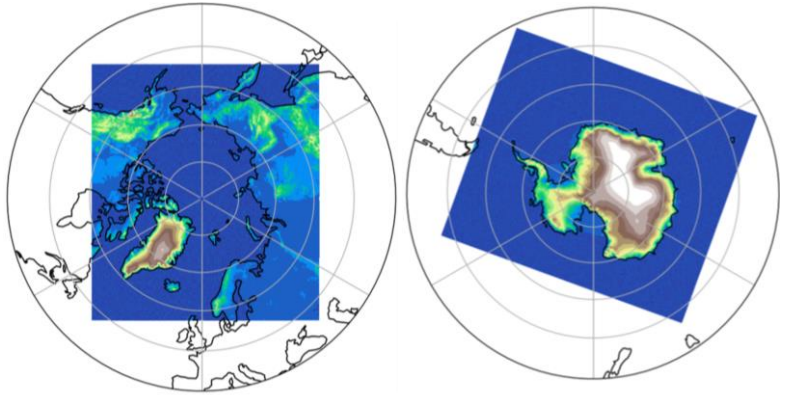
Identifier	Potential Storylines
Northern Hemisphere Storylines	
NH1a	Strong Arctic Amplification
NH1b	Weak Arctic Amplification



CMIP6 Storyline GCMs

This work is led by
Xavier Levine (NORCE)
Siv Lauvset (NORCE)

High-Res. Polar Regional model ensemble

This work is led by
Ruth Mottram (DMI)
Priscilla Mooney (NORCE)

Polar impact assessments

This work is led by
Hanna Lee (NORCE)
Nadine Johnston (BAS)

Co-design RCM experiment protocol

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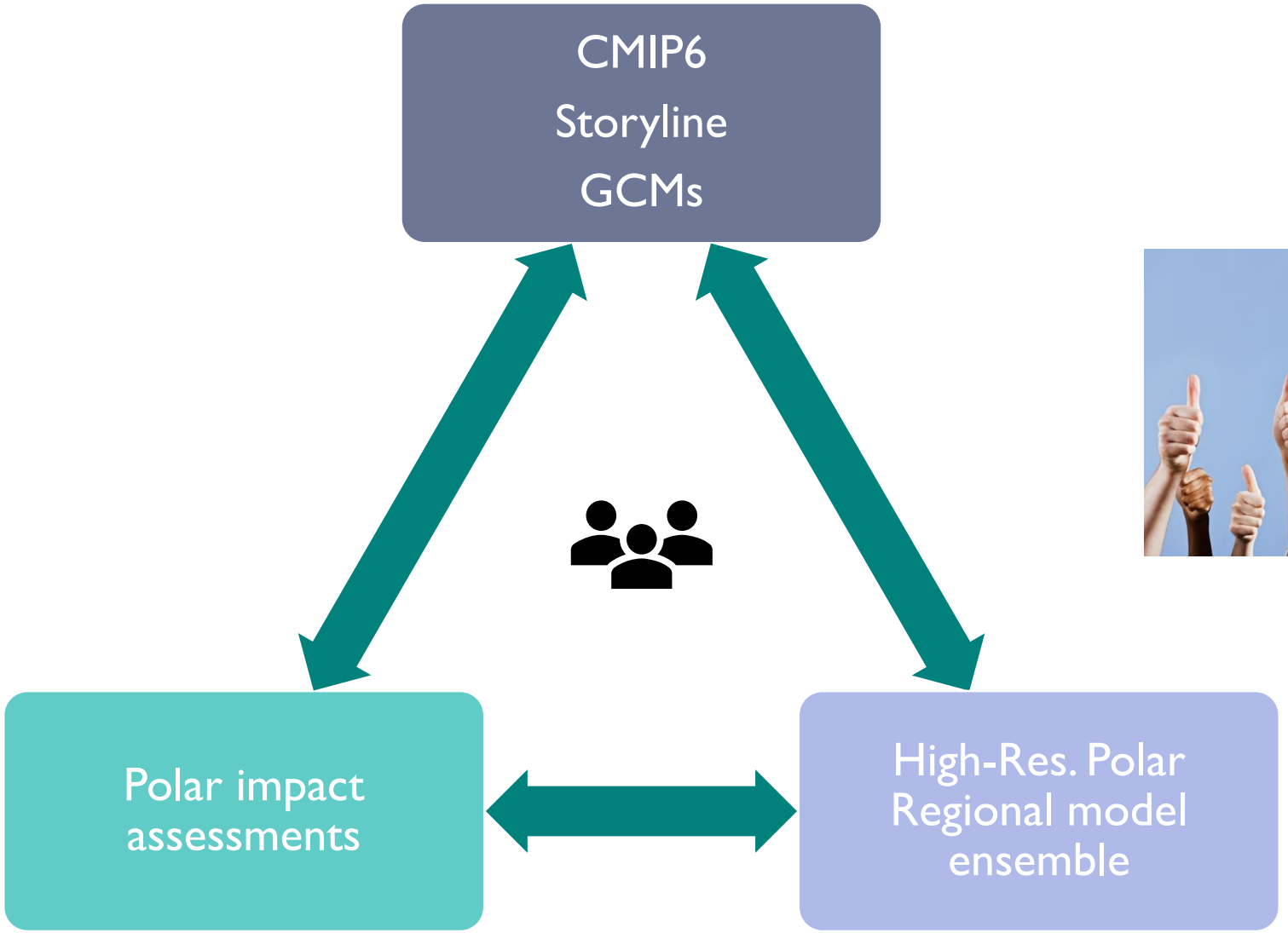
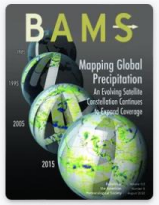


RCM experiment Protocol



Bulletin of the American Meteorological Society

Volume 103: Issue 8

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Article Type: Research Article

Toward Effective Collaborations between Regional Climate Modeling and Impacts-Relevant Modeling Studies in Polar Regions

Hanna Lee, Nadine Johnston, Lars Nieradzik, Andrew Orr, Ruth H. Mottram, Willem Jan van de Berg, and Priscilla A. Mooney

Online Publication: 12 Aug 2022

Print Publication: 01 Aug 2022

DOI: https://doi.org/10.1175/BAMS-D-22-0102.1

Page(s): E1866–E1874

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Next generation of hi-res climate projections for the polar regions

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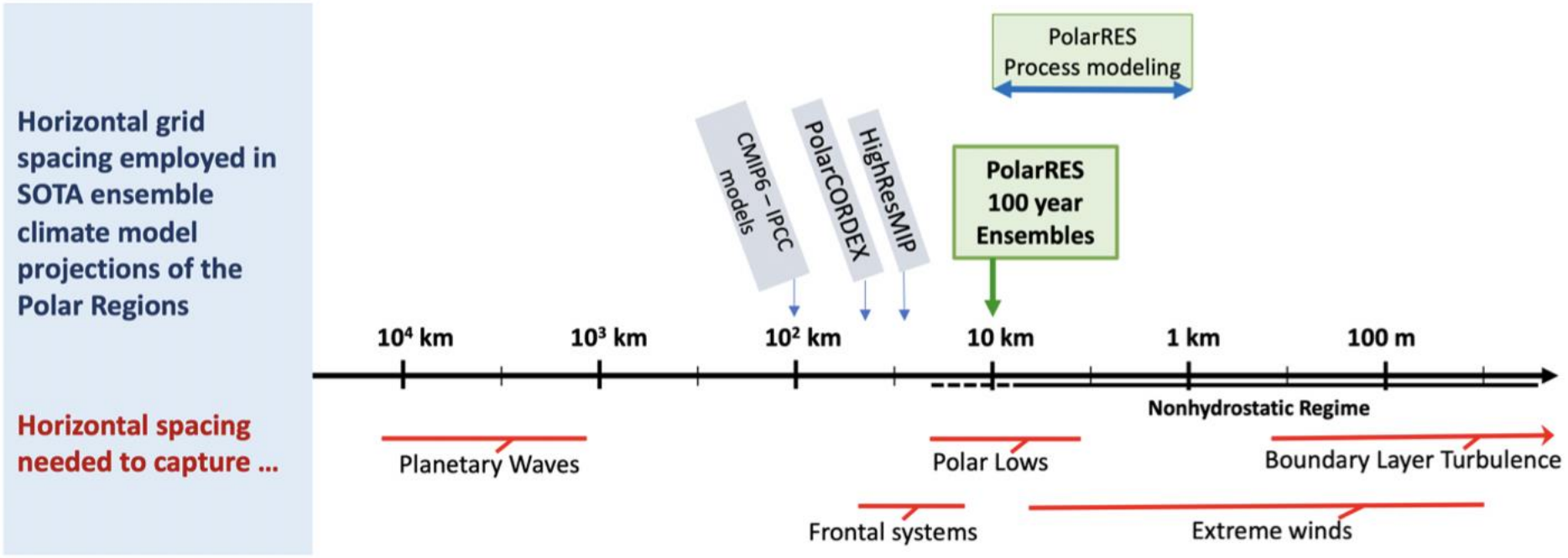
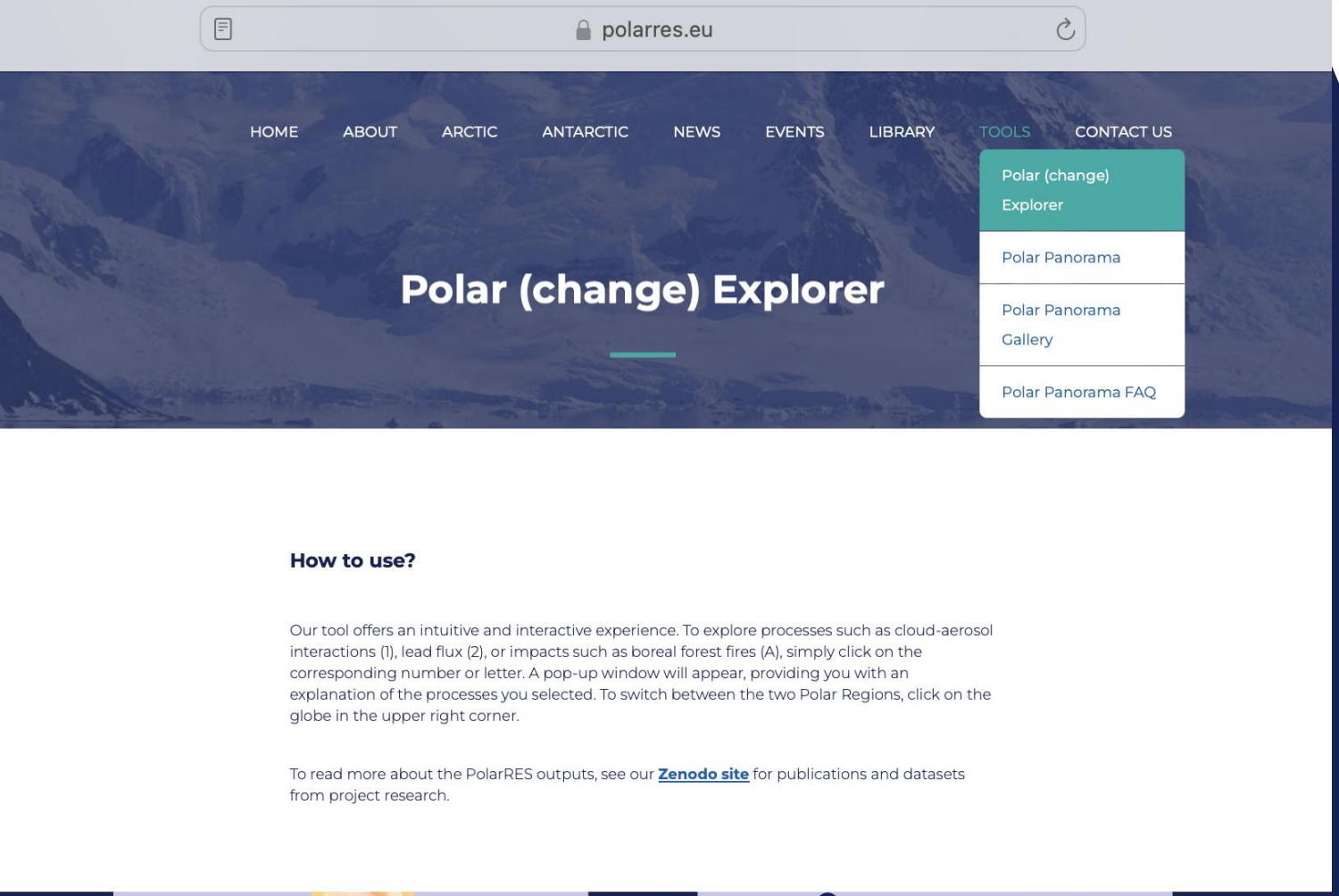


Figure 1.4a *Horizontal grid spacing employed in state-of-the-art GCM and RCM projects/initiatives and the approximate grid spacing needed to capture key Global and Polar processes that span a range of spatial scales. PolarRES modelling activities will be positioned beyond the state-of-the-art (SOTA) to deliver new scientific knowledge and support impact assessments.*



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Thank You

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