

The EERIE Project aims to expand our understanding of the role of ocean eddies –an integral part of the ocean’s weather– in the Earth’s climate system in a warming world.

In order to achieve this, we are developing Eddy-Rich Earth System Models that will reduce structural uncertainty and increase trust in future climate projections.

We expect to produce actionable climate information in a more energy-efficient way, to be used for climate change adaptation and mitigation.



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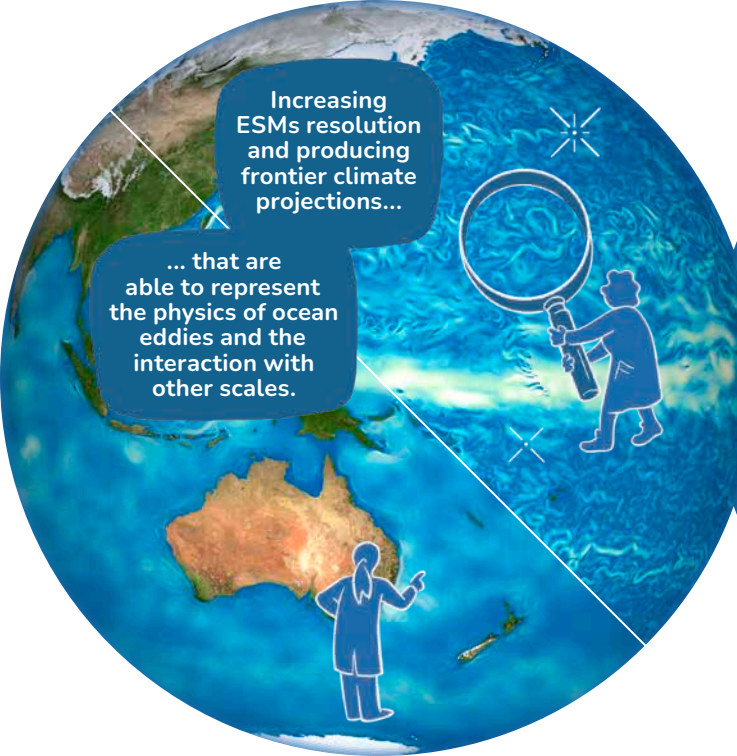
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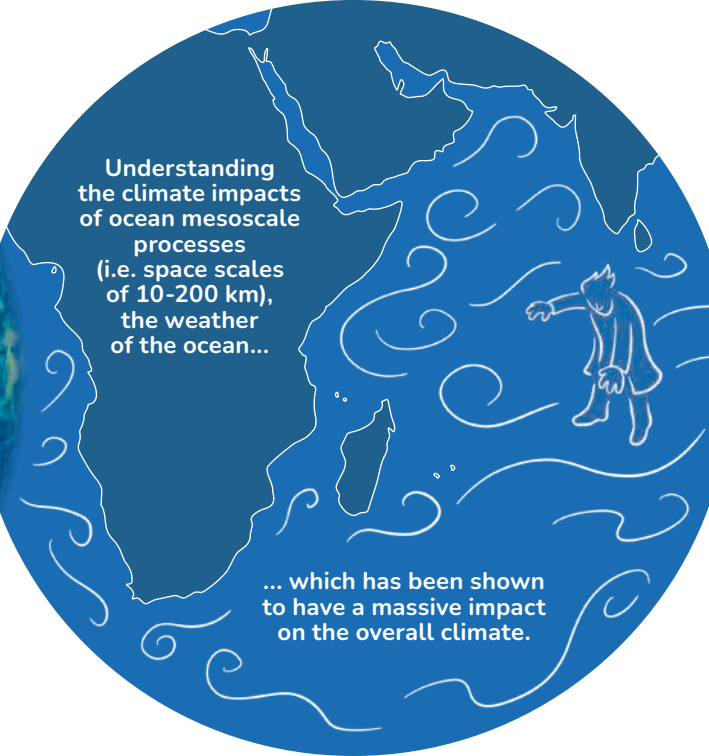
EERIE

European Eddy-Rich ESMS



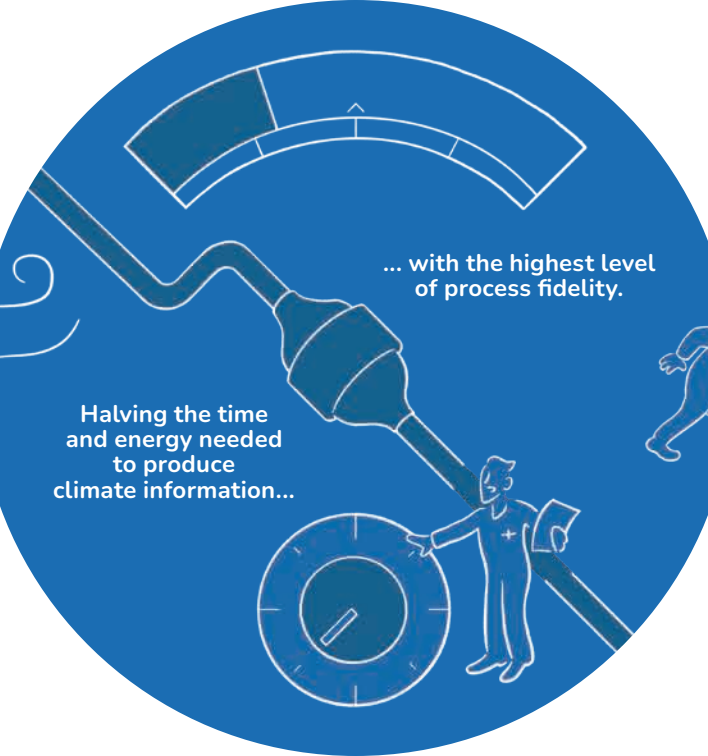
Increasing  
ESMs resolution  
and producing  
frontier climate  
projections...

... that are  
able to represent  
the physics of ocean  
eddies and the  
interaction with  
other scales.



Understanding  
the climate impacts  
of ocean mesoscale  
processes  
(i.e. space scales  
of 10-200 km),  
the weather  
of the ocean...

... which has been shown  
to have a massive impact  
on the overall climate.



Halving the time  
and energy needed  
to produce  
climate information...

... with the highest level  
of process fidelity.



Sustaining  
and enhancing  
cooperation  
and leadership  
in climate sciences.

