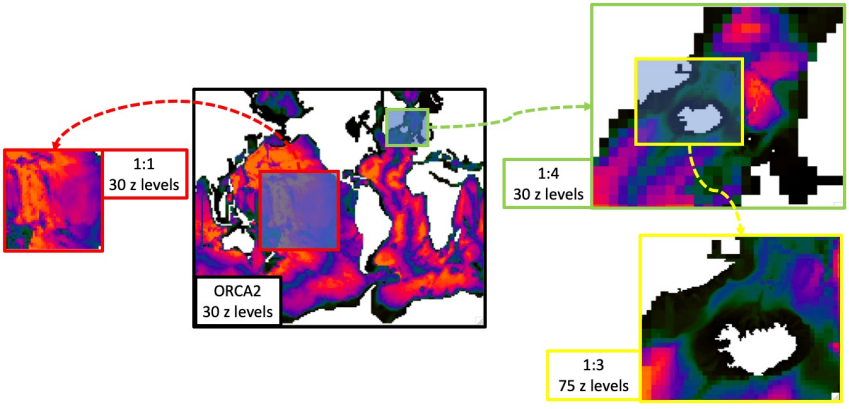
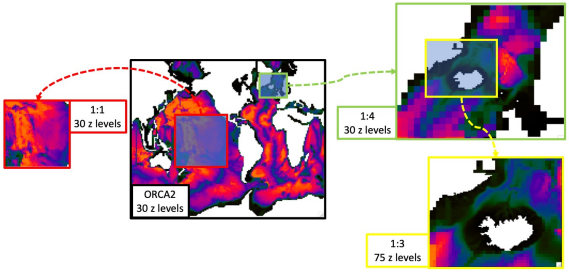
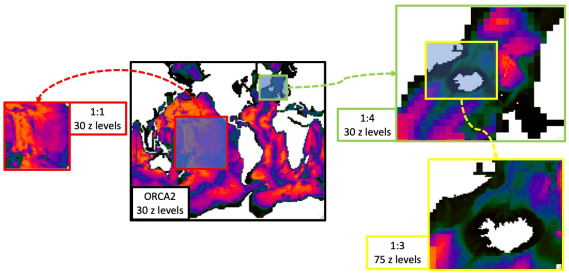
Nemo-NAA10km with AGRIF Zoom - First Results

What is AGRIF

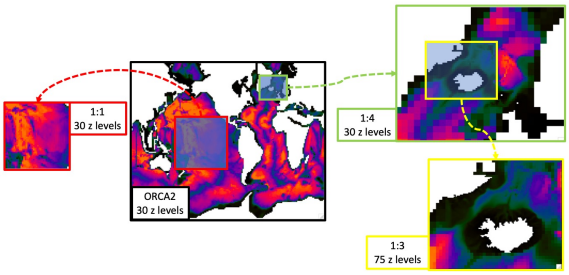




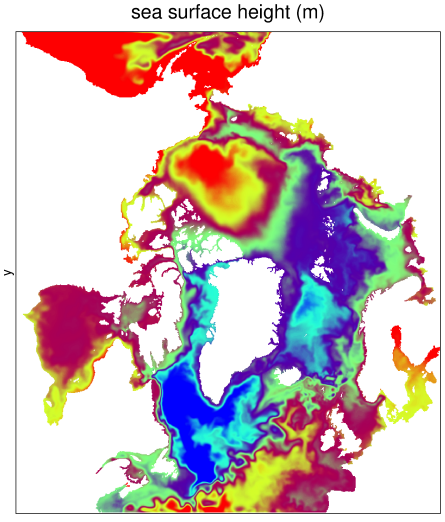
- The “child” interacts 2 ways with the “parent”

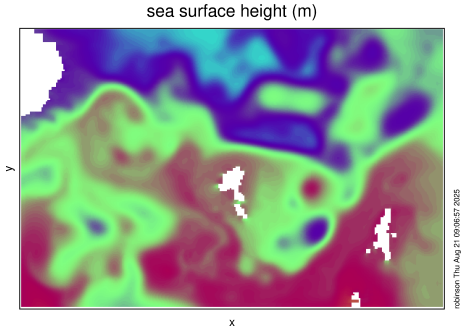


- The “child” interacts 2 ways with the “parent”
- Seamless conservation from barotropic and baroclinic points of view

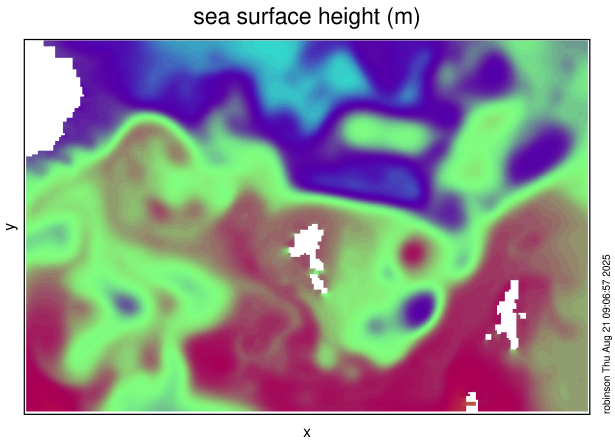


- The “child” interacts 2 ways with the “parent”
- Seamless conservation from barotropic and baroclinic points of view
- Restriction of the resolution ratio between parent and child, c.a. 1/4 is maximum

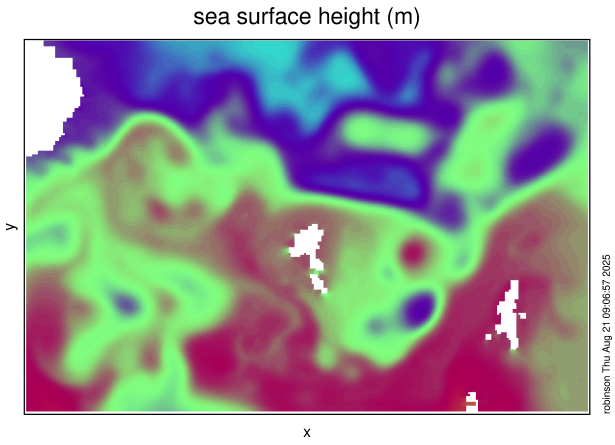




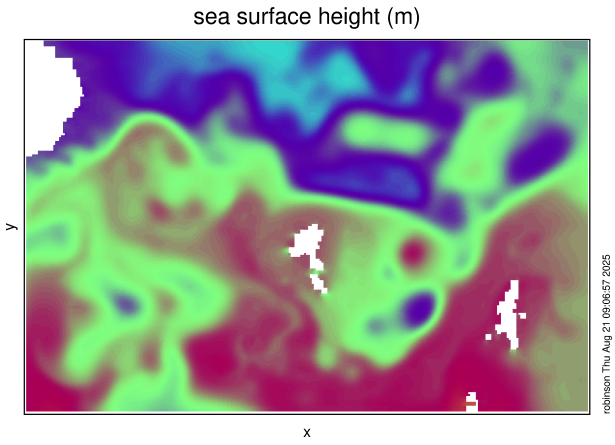
Nemo-NAA10km-AGRIF is now running on Betzy



- The child has a resolution of $1/3$ of the parent



- The child has a resolution of 1/3 of the parent
- It is about 2% of the entire domain



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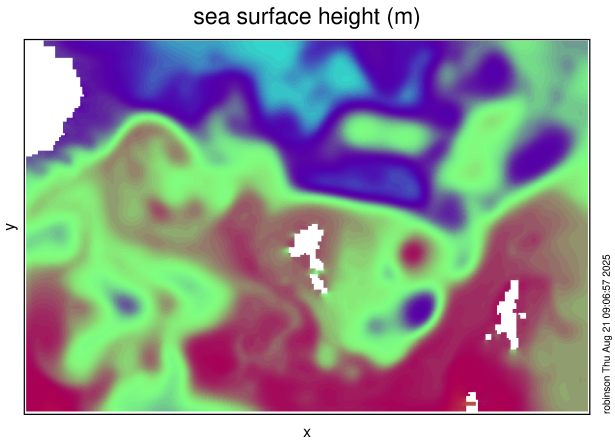
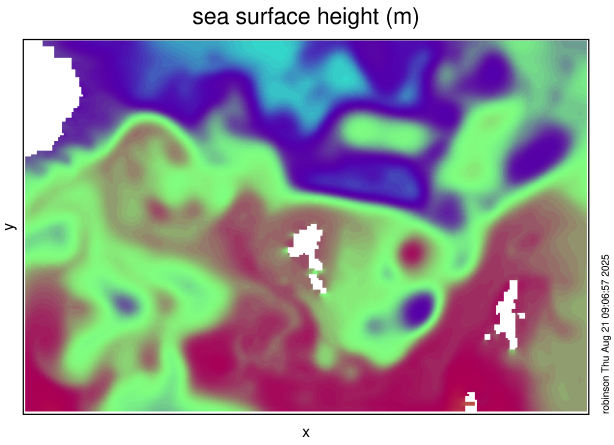
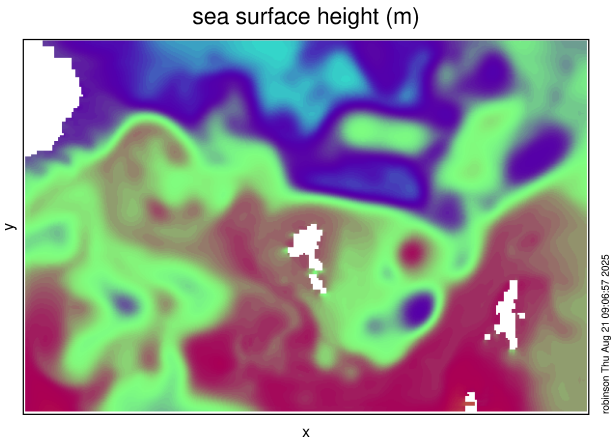


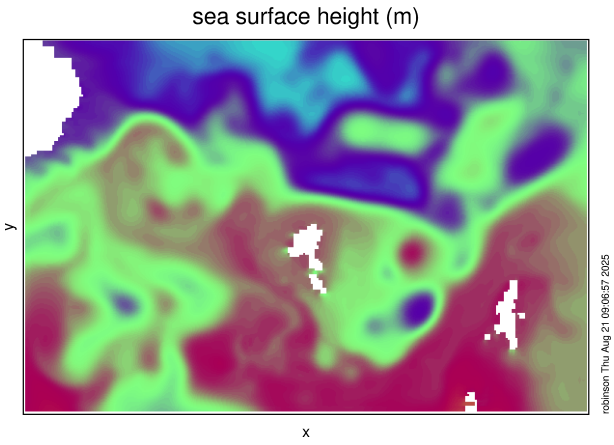
- The child has a resolution of 1/3 of the parent
- It is about 2% of the entire domain
- Simulation now running over hindcast period
- Seems a lot more stable than when i first tried it



- A 1y simulation of Nemo-NAA10km takes c.a. 4h15 with 4 nodes of Betzy



- A 1y simulation of Nemo-NAA10km takes c.a. 4h15 with 4 nodes of Betzy
- The same with the zoom takes c.a. 9h45



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- The same with the zoom takes c.a. 9h45
- It would take c.a. 114h if we were to run 1y with the entire Nemo-NAA10km at the zoom resolution