

## Discussion Feb 16<sup>th</sup>, 4pm (neuer Hörsaal)

This practical gives a practical perspective on some aspects of the quasi-geostrophic approximation. We will use the Quasi-geostrophic barotropic vorticity with and without a forcing and the two-layer model to reflect on some of the theoretical findings derived during the semester.

We devote the final exercise on Feb  $16^{th}$  to a discussion of your results. Please hand in your code and a small exposé consisting of some figures showing results from the model prior to this discussion. We expect a brief discussion / presentation of the exposé during this exercise.

### Preliminaries - model infrastructure 1

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5P

You can use the model infrastructure provided for python that is provided on the whiteboard. (Alternatively, you may develop an infrastructure with similar capabilities in a programming/scripting language

• How is the model of	ontrolled (how does it learn about its input / parameters / c	configurations?) ?
• Which classes exist	and what is there purpose?	
1		
2		
3		
4		
• What time integrat	ion scheme is used? In wich class and routine is it implement	ted?
Scheme		
Class		
Routine		
• What kind of outp	at is generated to the following streams/files	
stdout		
*.log		
*.iter		
*.nc		
Rossby wav	es	15 P
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# $\mathbf{2}$

### 3 Two-layer model