Computational Geophysics - Homework **

September 16, 2021

This is just a simple LaTex template example to get you started with writing the homework reports.

Put your report here...

Problem 1

In the following, I use a discretization of the problem with pressure $P(\mathbf{x}, t)$ as:

$$
\begin{aligned}
P_{i,j}^n &\equiv P(x = i \times \Delta x, y = j \times \Delta y, t = n \times dt) \\
&\equiv P(i, j, n)
\end{aligned}
$$

The discretized form of the equation of motion then becomes...

Simulation Results

Note that in the code I choose $\Delta x = \Delta y$ for simplicity. ..