

MPO/OCE 603: Introduction to Physical Oceanography

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Assignment #1

(1) Fill in the horizontal length scales and time scales of the phenomena in the figure. You may need to dig through on-reserve texts, browse on the internet, or confer with fellow students. Answers can be rough - orders of magnitude (ie mm, cm, m, km - 10,000 km).

(2) Replace the time scale on the figure by a VERTICAL length scale and re-plot the phenomena on a new graph, giving approximate vertical length scales.

(3) For which of the phenomena is the earth's rotation important? For which of these phenomena are vertical motions important?

