Planetary Rossby Waves

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PHYS 3202

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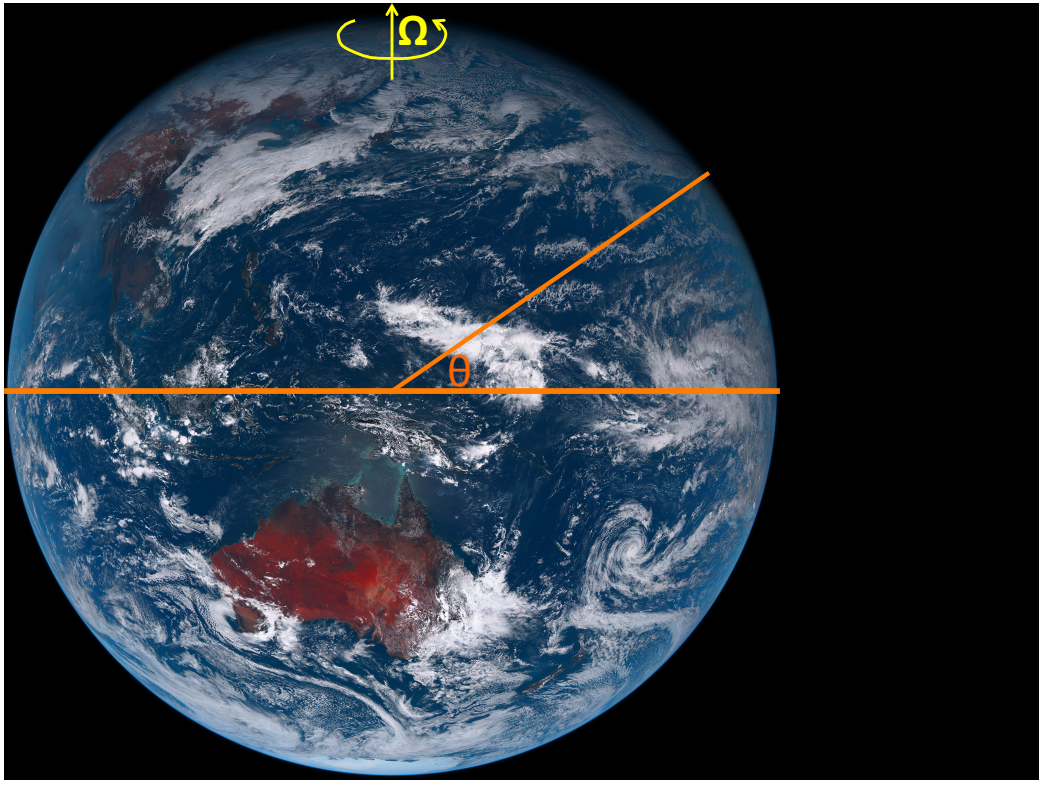

$$f = 2\Omega \sin\Theta$$

The Beta-Plane Approximation:

$$f = f_0 + \beta y,$$

where $f_0 = 2\Omega \sin\Theta_0$ and $\beta \approx \frac{\partial f}{\partial y}$.