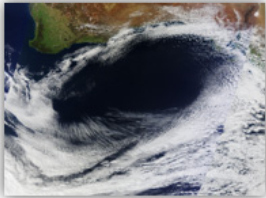
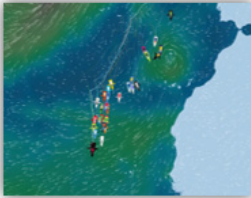
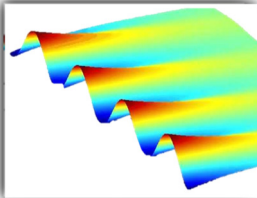
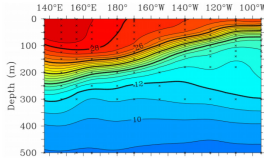



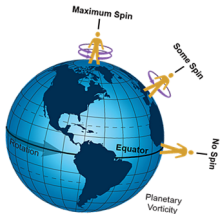
Geophysical Fluid Dynamics

h_1
 h_2
 $P_a=0$
 Abyss







Nick Hall – Serena Illig
M2 SOAC 2020-2021

Course outline

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- 1) Shallow water and vorticity
- 2) Quasi-geostrophic theory
- 3) Rossby waves and instability
- 4) Gravity waves and tropical dynamics
- 5) Scale interactions in the atmosphere and ocean

Some things I hope you already know about:

Partial differential equations, vector calculus, the Coriolis force and geostrophy, the basic equations of motion, vorticity and divergence.

Books:

*Introduction to GFD - Cushman-Roisin
Introduction to Dynamical Meteorology - Holton
Geophysical Fluid Dynamics - Pedlosky
Atmospheric and Oceanic Fluid Dynamics - Vallis
El Niño - Philander*

Questions ?

- before the exam you are always priority number one.
- after the exam you might find it hard to get my attention.

19:40 (CEST) 7/9/16

