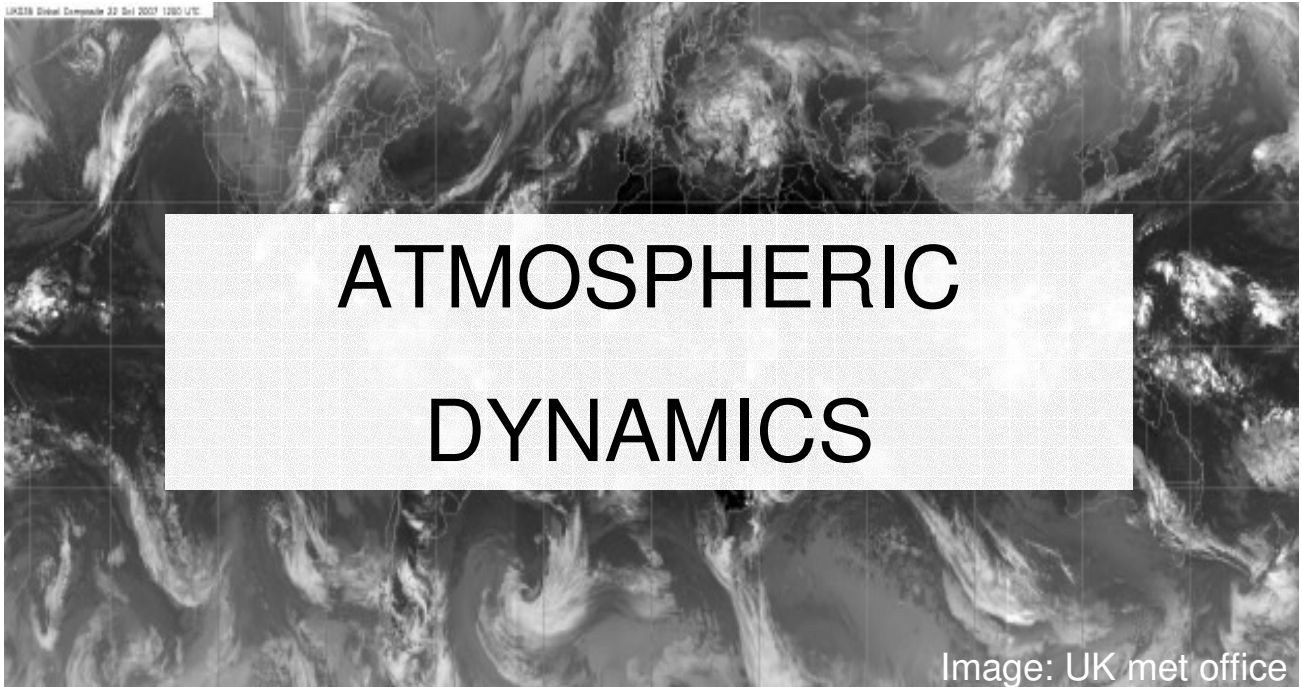


# PHY2504S



This course will examine the dynamics that govern atmospheric motions in the extra-tropics (although many of the concepts also apply to the ocean).

Topics include:

Equations of motion in rotating, stratified fluids

Shallow water theory: Gravity waves, Rossby waves

Two-layer quasi-geostrophic theory

Quasi-geostrophic theory in stratified fluids

Baroclinic Instability

Connecting theoretical dynamics to atmospheric general circulation

Organizational meeting: Tues 11<sup>th</sup> Jan, 12-1, MP505

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