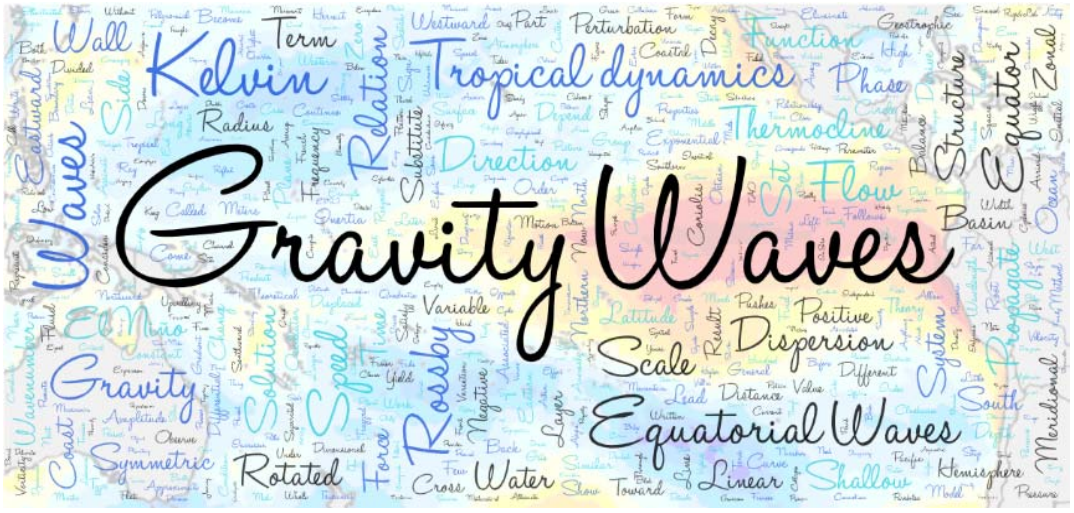
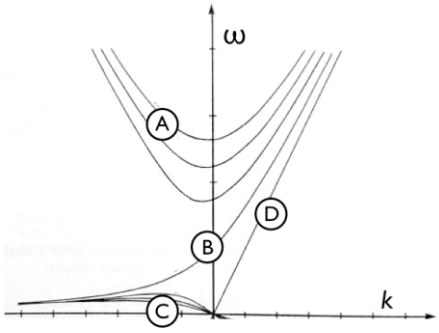
Gravity waves and tropical dynamics

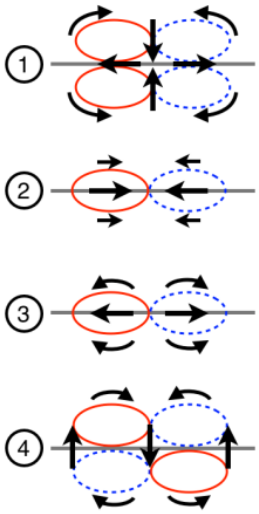


Equatorial wave structures

Question 4

Match the dispersion relations on the left to the wave structures on the right for n<2.





1) What is the name for each type of wave ?
2) Is it symmetric or antisymmetric in zonal velocity ?
3) Is it predominantly divergent or rotational in nature ?
4) Is it close to non-dispersive for long waves ?
5) Is it close to non-dispersive for short waves ?
6) Is it associated with cross-equatorial flow?