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Separation of dynamical regimes of atmospheric motion derived from analysed data

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Results of a statistical analysis of analysed data are presented. The zonal, meridional and temporal fourier coefficients Amplitude and Phase of the dynamical variables of atmospheric motion have been investigated.

The wave numbers of planetary waves, 2D and 3D motion for mid latitudes and the tropics and the stochastic space and time scales of the dynamical variables considered could be identified. The consequences for scale separation and parameterisation of turbulent motion will be discussed.