Excitation and damping phenomenology and solar-cycle variations of low-degree p modes

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We consider in detail observed variations in the properties of low-degree (low-l) solar p modes over the solar activity cycle, as determined from the analysis of data collected by the Birmingham Solar-Oscillations Network (BiSON). Changes to the mode frequencies, damping rates and powers reflect variations in the characteristics of the surface layers of the Sun; in addition, information regarding the location and characteristics of the modal excitation source is coded in the complicated forms of resonant profiles. We shall discuss these issues in the context of the BiSON data.

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