



## **Seasonal pressure and temperature oscillations and their connection with the upper and lower atmospheric flows**

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The mean annual oscillation of the observed geopotential over Iceland reveals three main anomalies from a smooth sine curve and two of these anomalies appear clearly in the low level temperature curves. The first anomaly is of low geopotential height at all levels in March and is associated with a rapid drop in cyclone activity, cooling at low levels and a relative drop of the height of the tropopause. The second anomaly is a sudden drop in surface pressure in early June. This anomaly is associated with stable low level layers and continuous warming at upper levels. The third anomaly is in November and represents a halt in the smooth reduction of the geopotential. This anomaly is associated with an increase in cyclone activity and relatively warm airmasses at all tropospheric levels.