

# **Relation of low-latitude mesospheric wind anomalies to SAO, QBO and SSW**

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The investigation of twenty years of medium-frequency and meteor radar wind observations in the low latitudes revealed correlations with the semi-annual oscillation (SAO). Six mesospheric spring equinox enhancements (MSEE) of easterly wind were detected when the quasi-biennial oscillation (QBO) in the stratosphere was in the westerly phase. Both relations can be interpreted as a result of modified gravity wave propagation. During three spring equinoxes, the stratospheric QBO phase was westerly but MSEEs were missing. These were situations when a strong sudden stratospheric warming (SSW) had taken place. For such a connection between high and low latitudes, SSW-related cross-equatorial circulation anomalies are discussed.

Key words: radar, MLT, SAO, QBO, SSW

## **References**

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