

COMMON OSCILLATORY MODES IN GEOMAGNETIC ACTIVITY AND CLIMATE VARIABILITY AND THEIR PHASE RELATIONS

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Oscillatory modes with period of approximately 8 years were detected in monthly time series of geomagnetic activity aa-index, North Atlantic Oscillation index and near-surface air temperature from several mid-latitude European locations. Instantaneous phases of the modes underwent synchronization analysis and their statistically significant phase coherence, beginning from 1950's, has been observed.

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