

## Space weather monitoring by ground-based means : PC index

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### Abstrak

This book demonstrates that the method, based on the ground polar cap magnetic observations is a reliable diagnosis of the solar wind energy coming into the magnetosphere. Method for the uninterrupted monitoring of the magnetosphere state (i.e. space weather). It shows that the solar wind energy pumping power, can be described by the PC growth rate, thus, the magnetospheric substorms features are predetermined by the PC dynamics. Furthermore, it goes on to show that the beginning and ending of magnetic storms is predictable. The magnetic storm start only if the solar energy input into the magnetosphere exceeds a certain level and stops when the energy input turns out to be below this level.