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International networking in Pc1 studies - Russian-Finnish cooperation as an example

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In ground-based studies of magnetic pulsations in the Pc1 frequency range both latitudinal and longitudinal networks of observation sites are of outmost importance to separate the source characteristics from the propagation effects. Such networks were established in many places, especially during great international projects like the International Geophysical Year (1957-59) and International Magnetospheric Study (1976-79). Nowadays more extended networks with more sophisticated instrumentations and data services are available which support in an important way in-situ space observations by satellites. In this paper we review the main results from the Russian-Finnish activity as an example of such a networking of observatories and researchers. This collaboration dates back to the 1970'ies and to the period of International Magnetospheric Study. This collaboration has covered a large range of questions relevant to the Pc1 research. Networks of other instrumentations established in Northern Europe, like magnetometers, all-sky cameras, ionosondes, riometers, radars etc. have been also a most valuable support in many investigations.