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Very Short Period Secular Variation

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Records from certain permanent geomagnetic observatories yield evidence of very short period secular variation in the form of oscillations in the secular variation. These oscillations, which have a period of around 3-4 years and an amplitude of about 5 nT/yr, remain phase coherent over several decades..

Here we address several questions regarding these oscillations. First, are they real? Second, are they of internal origin? Third, what is their physical origin?

We discuss also the relationship of these oscillations to geomagnetic jerks.