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Growing season precipitation in Finland under reand projected climate

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Abstract. The past and projected future precipitation sum in May– September for two areas in Finland, one located in the south-west and the other in the north-east (NE), is studied using 13 regional c simulations and three observational datasets. The conditions in th present-day climate for agricultural crop production are far more fa in the south-western part of the country than the more continenta eastern Finland. Based on a new high-resolution observational

precipitation dataset for Finland (*FMI_grid*), with a resolution of 10: the only statistically significant past long-term (1908–2008) precipitendencies in the two study regions are positive. Differences betw *FMI_grid* and two other observational datasets during 1961–2000 rather large in the NE, whereas in the SW the datasets agree bett Observational uncertainties stem from the interpolation and samplerrors. The projected increases in precipitation in the early stage c growing season would be most favourable for agricultural productive the projected increases in August and September might be harmfu projections for the future indicate a statistically significant increase precipitation within the growing season is not necessarily the m optimal.

Full Article (PDF, 989 KB)

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