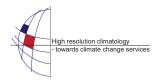
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Phenological monitoring of fruit trees in the Czech republic

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Phenological observations at CHMI has a long tradition. Aside from several short-term series in 18th and 19th century the general phenology network has been started in 1923.In 1987 the network has been divided into tree observation types (field crops, fruit trees and wild plants) with separate methodology instructions. The period 1991 - 2010 has been selected. We have statistically evaluated results of fruit trees phenophase onset (bud burst - BBCH07, inflorescence emergence - BBCH57, beginning of flowering - BBCH61, end of flowering - BBCH69) in above mentioned period (apple, pear, cherry, morello, apricot). The second step has been evaluation of interval duration with meteorological characteristics (air temperature, sunshine duration, number of days with precipitation above 1 mm). In selected period 1991 – 2009 were observed subsequent average phenophase onset: BBCH 07 – 25th March, BBCH 57 – 14th April, BBCH61 – 26th April, BBCH69 – 12th May (Malus domestica Borkh. – species Idared). Prunus armeniaca L. – species Velkopavlovická shows these results in period 1991 – 2009: BBCH07 – 27th March, BBCH57 – 5th April, BBCH61 – 7th April, BBCH69 – 19th April.