Assessment of the contribution of climatic factors to the formation of flood wave

A.V. Semenova, M.E. Bukovskiy

Tambov State University named after G.R. Derzhavin

E-mail: asv273@mail.ru

GOAL

To create an instrument that can be used for forecasting maximum flood levels
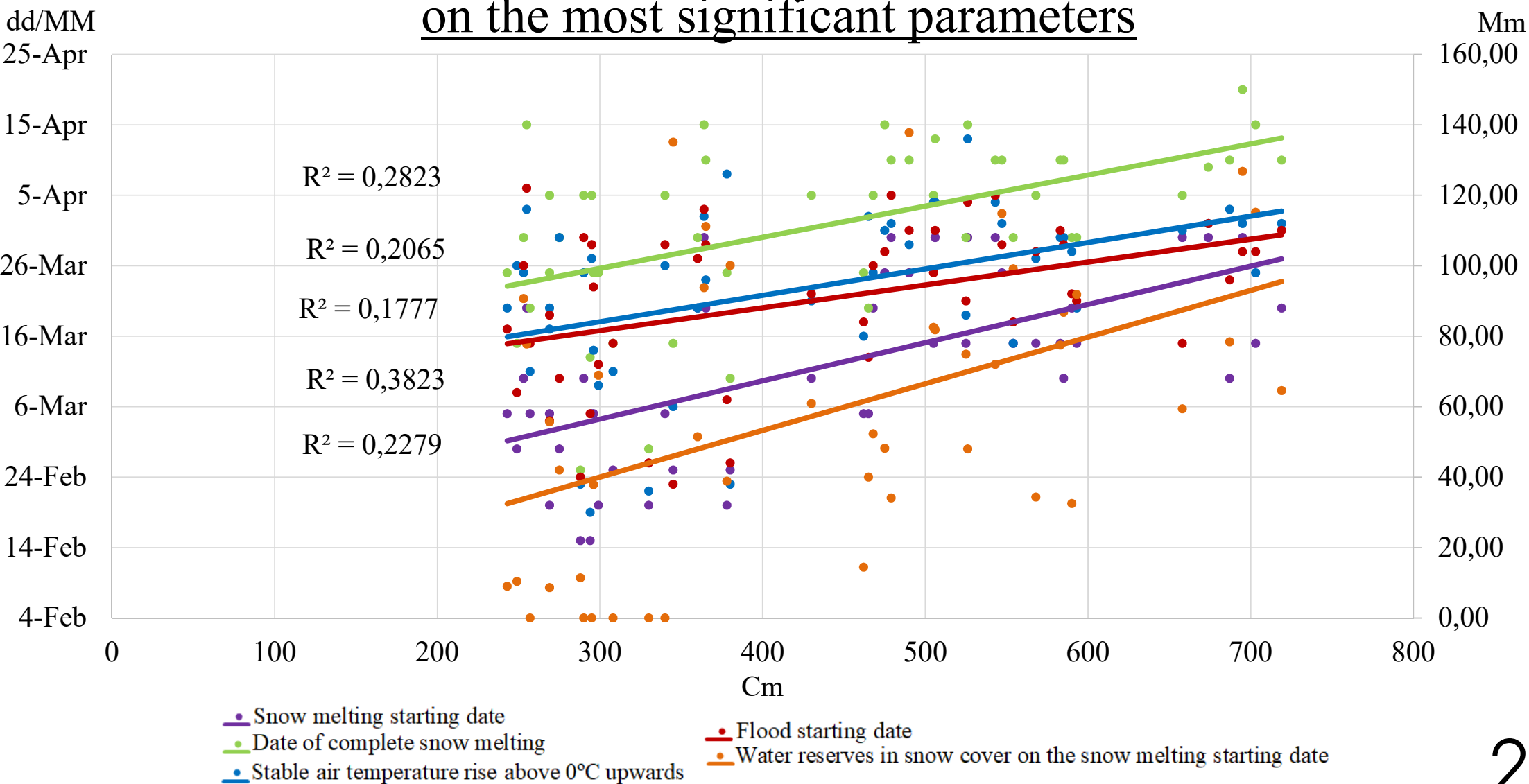
OBJECTIVES

- To determine which of the parameters we have studied has more influence on the maximum flood level;

- to analyze them and to find out how they affect the maximum flood levels.

Model object - Tsna River (the Oka basin, Tambov region, Russia)

Data – air temperatures, precipitation, snow-measuring surveys, (de)freezing soil for 1970-2018

Dependence of the maximum flood level on the most significant parameters

Results

We have determined, which factors the most affect the maximum flood level and how they change the maximum flood level depending on the snow melting starting date.

Thank you for attention!

Welcome to Poster!

E-mail: asv273@mail.ru