

Snow measurements and facilities in Bulgaria

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Snow measurements and facilities in Bulgaria

- Daily measurements of the snow depth;
- Regular measurements of the snow density;
- Snow pillow stations;
- Field measurements.

Daily snow measurements

- More than 150 meteorological stations (synoptical, climatological and rain) measure snow depth – each day at 07 am local time when snow is presented.

Among them – 5 mountain stations



Snow density measurements

- 22 stations measure each 5 days the snow density;
- Simple but robust device is used.

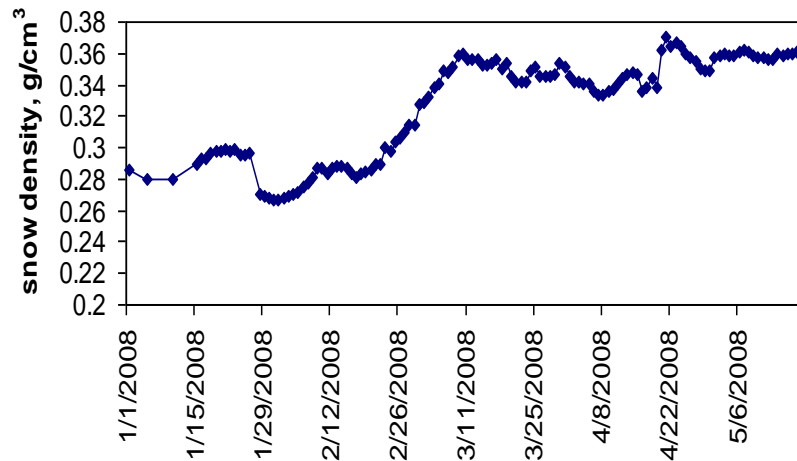


Snow pillows

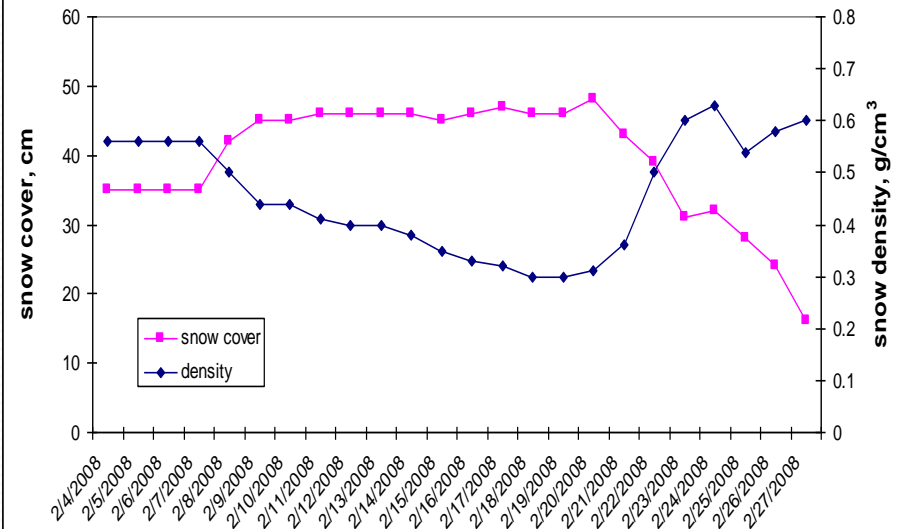
- Two river stations in the Rodophie mountain – peak Snejanka and Velingrad – have been recently equipped with snow pillows.

Examples of snow measurements

peak Botev, January - May 2008

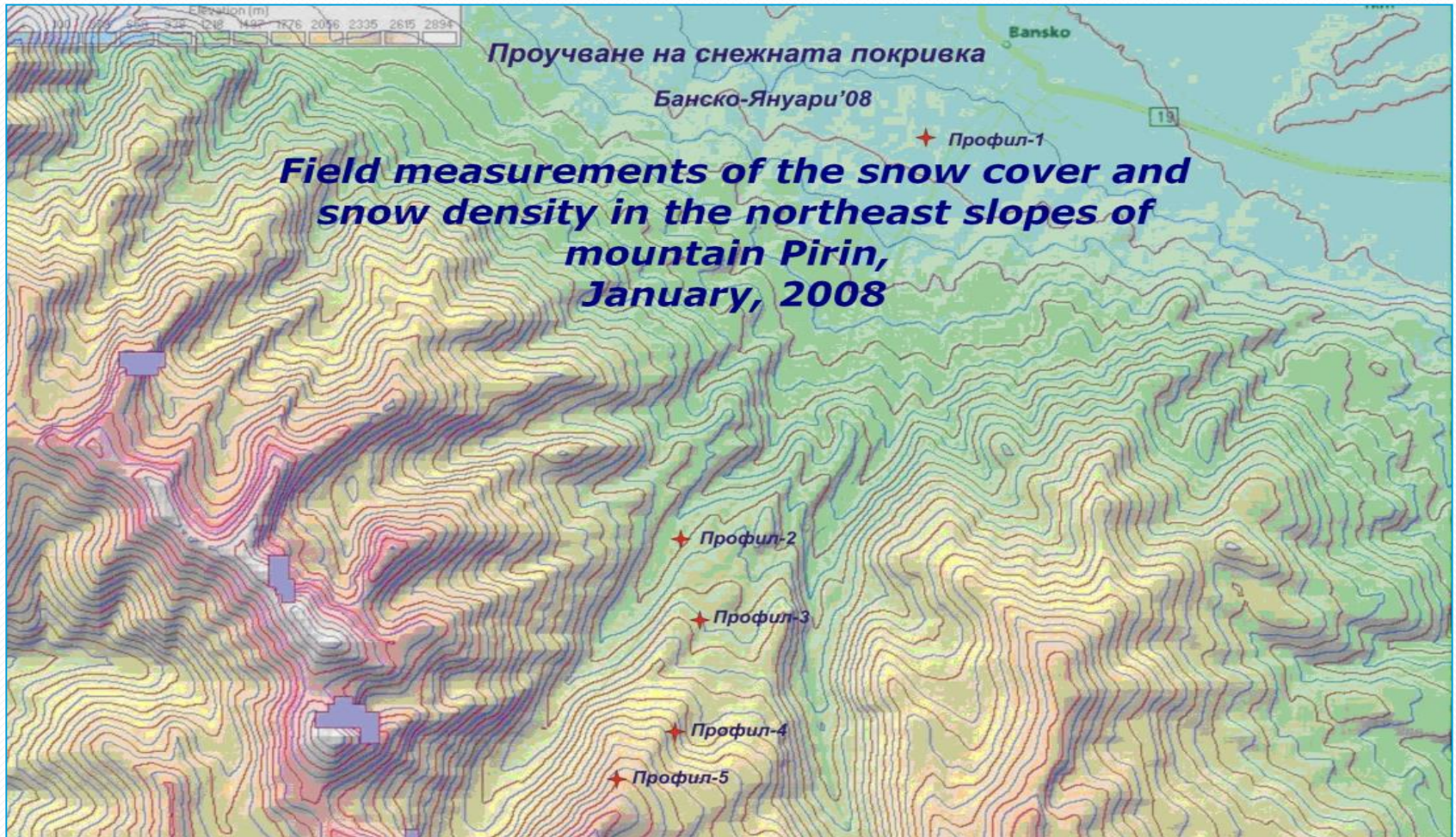


peak Murgash, February 2008

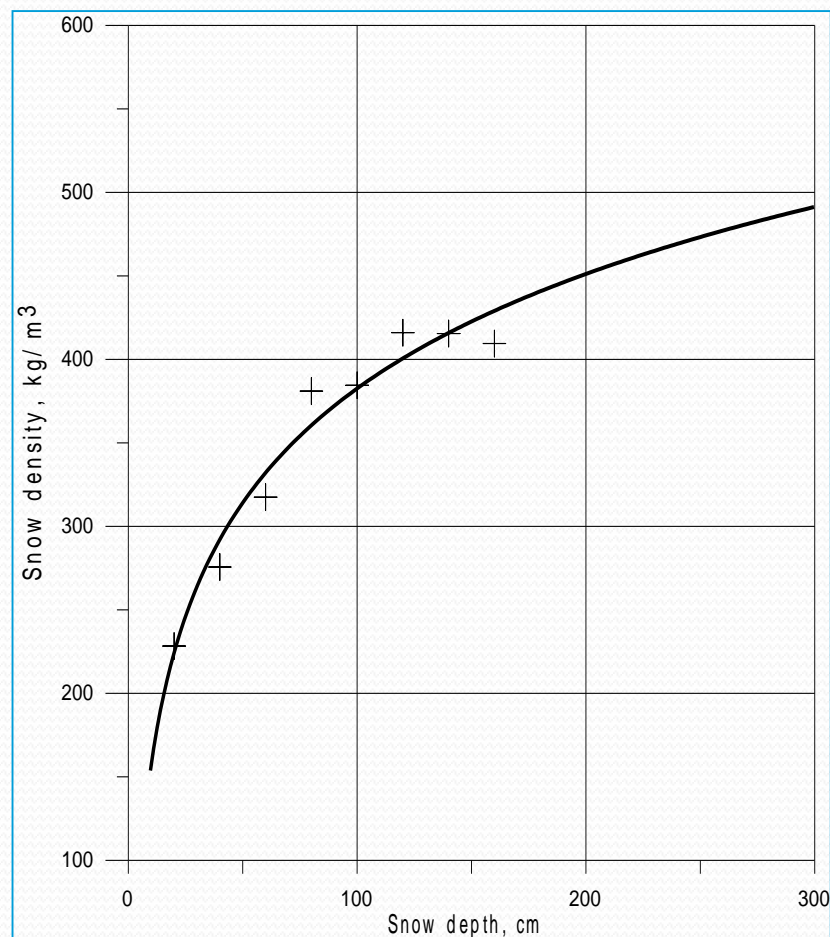


Daily measurements of the snow depth and snow density at mountain stations peak Botev (left) and Murgash (right) – as part of a research project.

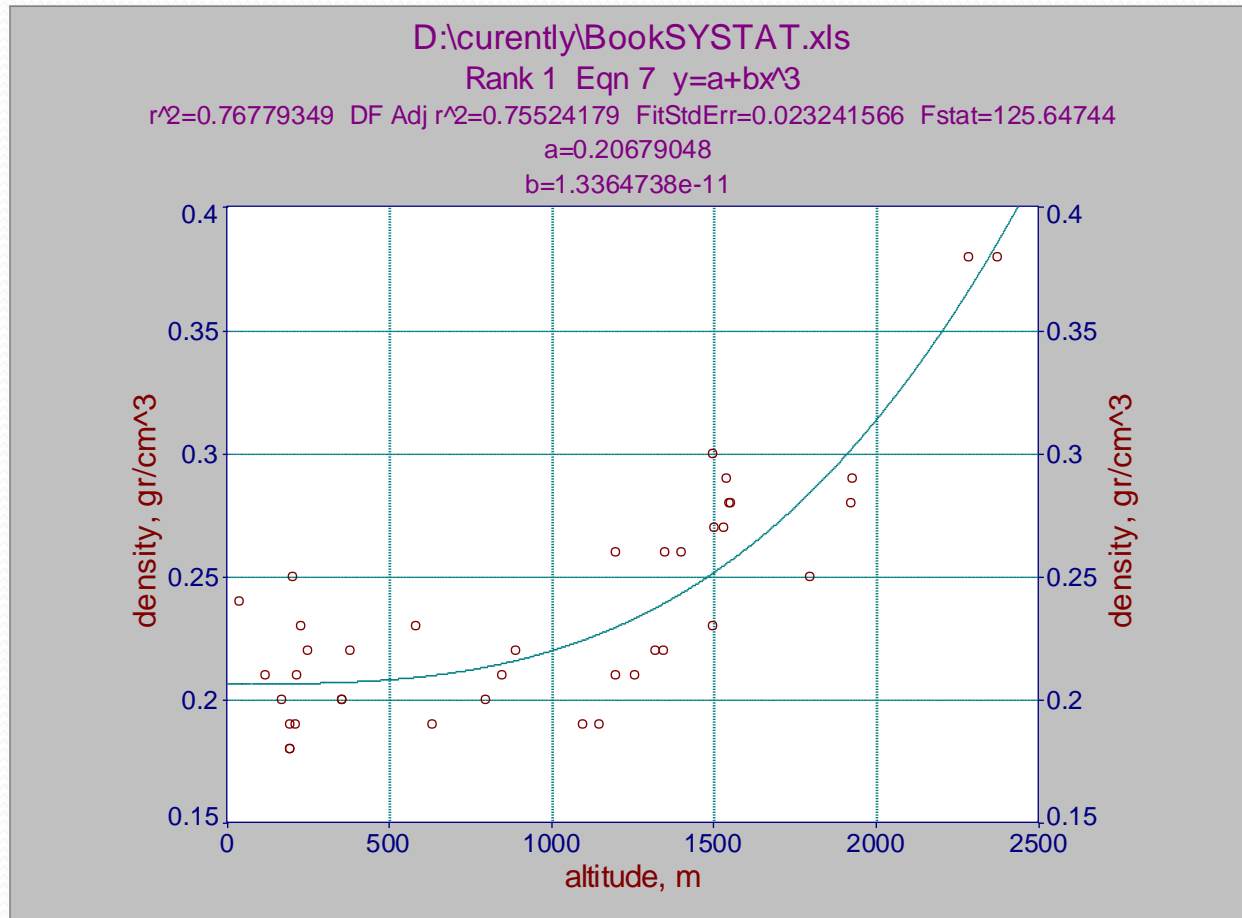
Examples of snow measurements – field measurements



Examples of snow measurements – field measurements and snow profiles



Some of the main useful results



Conclusions

- Long data record for both parameters (snow cover depth and snow density) – more than 50 years;
- Complemented with the field measurements they are suitable for climatological research and operational use;
- Project for new research infrastructure is in the pipeline, waiting for suitable call.

Possible test sites for future (2017) field campaigns - Peak Rojen 1759 m



Thank you for your attention

