



Serbian Torrent Flood Defense Practice – Modeling, observation, forecasting and impact

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Many areas in Europe have been affected by an increasing number of severe flood events in the past few years. Because of these floods numerous measures to improve the organization of disaster management have been taken. This includes the preparation of specific alarm plans for flood disaster events.

Serbian Torrent Flood Defense methodology, combines observation by radar meteorology, torrential hydrology and new GIS techniques to enable quick determination and assessment of the detected situation in order to provide a sufficient time for the flood defense system to be put in operation.

Alarm plans can be seen as one corner stone of disaster management but their practical use can still be optimized. For this end aims to support the risk analysis and risk communication process by improving the availability, reliability and communicability of hazard maps and alarm plans.

The main focus will be on levels of population protection and critical infrastructure protection in respect to natural hazards.

Paper presents Obtained results in the field of torrent defense in Serbia.

Key words: Hydrology, Torrent Flood Analysis, Meteorology, Flood Defense