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3D-Snow-Cover Monitoring by using terrestrial Long Range Laserscanners

M. Scheikl, G. Prasicek, C. Rachoy

ALP-infra, Consulting + Engineering GmbH, Sterneckstrasse 55/5/A8, A-5020 Salzburg,
manfred.scheikl@alpinfra.com

During the snow-fall-period alpine infra-structures are strongly exposed to avalanche danger. The development of a 5000m terrestrial laser-scanner ranging up to a measuring distance of 5000m enables us to monitor the development of critical snow-heights. during the winter of 2007/2008 several highly endangered spots were investigated and 3D-snow-cover maps were produced on demand. The currently contribution shall show the possibilities and difficulties using a further developed technology within alpine risk-management and monitoring of steep valley-slopes.