Ruler 1: 1 : 25000 Scale Slope Ruler

km		cm
1	0.80 45° 0.95 40° 1.14 35° 1.39 30° 1.72 25°	4
	$h = 20\text{m}$	3
0.5	1 : 25000 Scale Slope Ruler	2
	$h = 50\text{m}$	1
0	45° 2.00 40° 2.38 35° 2.86 30° 3.46 25° 4.29	0

Ruler 2: 1 : 50000 Scale Slope Ruler

km		cm
2	0.40 45° 0.48 40° 0.57 35° 0.69 30° 0.86 25°	4
1.5	$h = 20\text{m}$	3
1	1 : 50000 Scale Slope Ruler	2
0.5	$h = 50\text{m}$	1
0	45° 1.00 40° 1.19 35° 1.43 30° 1.73 25° 2.14	0

These rulers have been designed using LaTeX and the PGFPlots package by Christian Feuersänger to measure slope on a 1:25,000 or a 1:50,000 scale topographic map. Slope is determined by comparing the distance between contour lines of the map with the reference lines on the edges of the ruler. The top border of the ruler is designed to measure slope with a 20 meter contour interval. The bottom border measures slope with a 50 meter contour interval.

You should print this ruler on white or transparent paper, taking care of deactivating any scaling options. Check the actual size of the ruler in centimeters on the right border.

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v2.0 Emmanuel Vazquez