

Supplementary Materials

to the article " Expanding the sediment transport tracking possibilities in a river basin through the development of a digital platform - DNS/SWAT"

Table S1. Classification of value ranges for statistical measures used during calibration and validation.

Performance rating	R^2	NSE	PBIAS %		KGE
	flow/sediments	flow/sediments	sediments	flow	flow/sediments
very good	>0.65	$0.75 < NSE \leq 1$	$< \pm 25$	$< \pm 10$	>0.75
good	0.5 – 0.65	$0.5 < NSE \leq 0.75$	$\pm \leq 25$ Pbias $< \pm 40$	$\pm \leq 10$ Pbias $< \pm 15$	0.5 - 0.75
satisfactory	0.2 – 0.5	$0 < NSE \leq 0.5$	$\pm 40 \leq$ Pbias $< \pm 70$	$\pm 15 \leq$ Pbias $< \pm 25$	0 - 0.5
nonsatisfactory	<0.2	$NSE \leq 0$	Pbias $\geq \pm 70$	Pbias $\geq \pm 25$	<0

Table S2. The Raba River Model calibration and validation results.

calculation profile	type	interval	R^2	NSE	PBIAS	KGE
Calibration						
Myślenice	flow	1993-2017	0.62	0.51	21%	0.70
	sediment	2005-2017	0.34	0.10	-2%	0.58
Proszówki	flow	1993-2017	0.73	0.73	4%	0.80
	sediment	2005-2017	0.77	0.71	27%	0.69
Validation						
Stradomka	flow	1993-2017	0.57	0.46	-14%	0.72
	sediment	2005-2017	0.45	0.35	39%	0.19