

Technical corrections:

Page 1, line 19: „needs“ instead of „requires“ in order to avoid the expression “requires with requirements”

Page 1, line 23: “this requires to know about”,

Page 2, line 3: “can be routed” instead of “are routed”, “can be done” instead of “is done”, as there are always also other possibilities: some models don't use mass points but irregularly formed blocks (e.g. RAMMS), some models use vector paths on TINs (e.g. described by Hegg 1997, Geographica Bernensia 52)

Page 2, line 27: “It is” instead of “this random walk approach,” in order to avoid repetitions.

Page 4, line 2: What does “the particle is destroyed” mean? Maybe better: “deleted”

Page 5, line 3: it think “has not stopped” is correct instead of “did not stop”

Page 7, line 11: an explanation of the random walk would be helpful, such as “..., a stochastic way of path finding, enabling in case of repeated use to model the lateral spread of process areas.”

Page 9, line 7: “in the GPP several approaches are implemented” instead of “the GPP implements several approaches” as the implementation is not done by GPP but by the programmer.

Page 10: As the suggested renumbering of the subchapters is not possible due to formatting rules, I would suggest to skip the numbers and use letters: a) Geometric gradient, b) Fahrboeschung, c) Shadow angle. The subheading “energy line approaches” should be one step above in the chapter hierarchy. I find it confusing when it is on the same level.

Page 13, line 17: “in the GPP equation (17) is implemented” instead of “the GPP implements equation (17)”.

Page 13, line 25: implement (use passive instead of active) line 25: analogous to the comments above.

Page 15, line 17 f.: “This section provides a brief summary on the GPP model parameters, input, and output data sets.” leads to the expectation that a longer passage would follow but in reality in this section only references to tables in the supplement are given. Thus I would change the sentence: “A brief summary on the GPP model parameters, input, and output data sets is given in the supplement.”

Page 21, line 15: “build on” instead of “build upon”