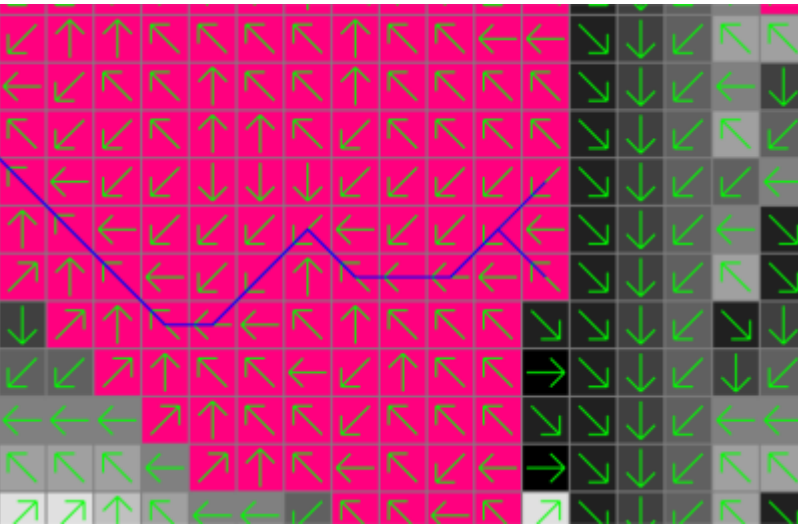


Efficient longest flow path algorithm

Workspace

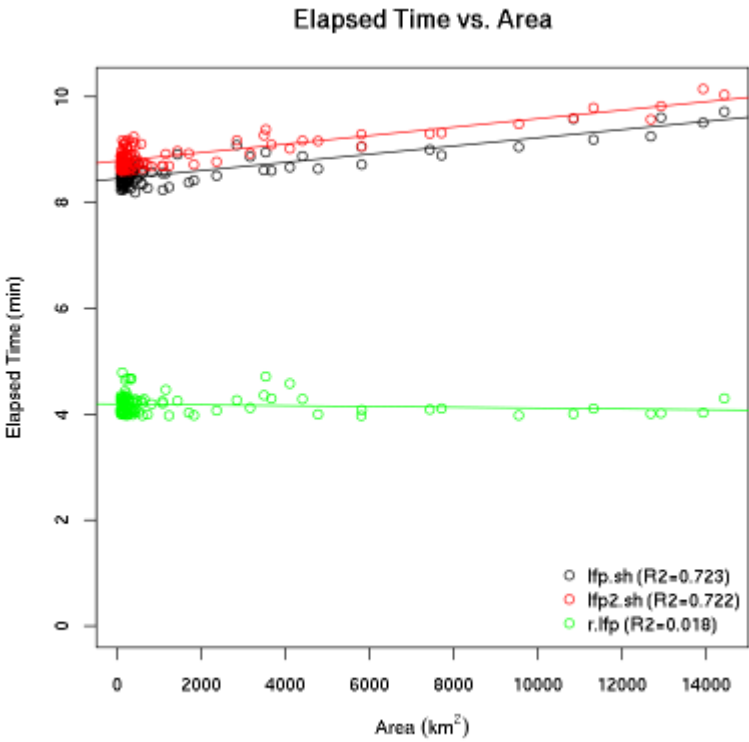


$\overrightarrow{\text{LFP}}$ $\overrightarrow{\text{FP}}$ FL DFL UFL LFL

A flow path FP_i is the watercourse between a pair of two points i within the watershed and the longest flow path LFP is defined as

$\text{LFP} \in \left\{ \text{FP}_i; \left| \text{FP}_i \right| \geq \left| \text{FP}_j \right|; \forall j \neq i \right\}$.

The longest flow path plays an important role in hydrologic modeling, but its computation requires multi-step raster calculations for each watershed. This research project aims to improve the current process and efficiency of computing the longest flow path for a lot of watersheds.



Method	lfp.sh	lfp2.sh	r.lfp	Coming soon
Elapsed time	3h 48m	9h 8m	6h 46m	56s

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Last update: 2020-05-21 04:04 pm