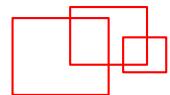


Task / Module

Intermediate output layer

Final output layer

1st phase



Irregular Tiling System (ITS)



Regular Tiling System (RTS)

flow accumulation / r.watershed
stream segment extraction / r.stream.extract
basin delineation / r.stream.basins

(a)

remove truncated basins
remove truncated flow accumulation

(b)

merge entire flow accumulation

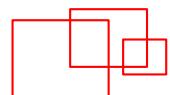
(c)

flow accumulation
stream segments
basins

entire basins
entire flow accumulation

global flow accumulation

2nd phase



ITS

streams segment extraction / r.stream.extract
basin & sub-catchment delineation / r.stream.basins

(d)

remove truncated basins & sub-catchments
remove truncated stream segments
remove truncated flow direction

(e)

reclassify basins from 1 to n

(f)

stream segments & flow direction
basins & sub-catchments

entire basins & sub-catchments
entire stream segments
entire flow direction

reclassified basins



RTS

mosaic flow direction
mosaic reclassified basins
mosaic stream segments
mosaic sub-catchments

(g)

reclassify basins from 1 to n
reclassify stream segments from 1 to n
reclassify sub-catchments from 1 to n

(h)

global flow direction

global reclassified basins
global stream segments
global sub-catchments

global unique basins
global unique stream segments
global unique sub-catchments