

Optimal Channel Network

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1 OCN Multiple Outlets

```
1 dimX=70
2 dimY=70
3
4 side=c('S','S','S','E','E','E')
5 position=c(15,25,35,45,50,25)
6 OCN2=create_OCN(dimX, dimY, nOutlet = 6, outletSide = side, outletPos =
   position,cellsize = 1000)
7
8
9 #OCN1=create_OCN(100, 100, nOutlet = 5,outletSide = "S",cellsize = 1000)
10 #outletpos = '100/3'
11 par(mai=c(0,0,0,0))
12 draw_simple_OCN(OCN2)
13
14 OCN_ele <- landscape_OCN(OCN2, slope0 = 0.0015)
15
16 write.csv(OCN_ele[[1]][[13]], "OCN2_DEM.csv")
```

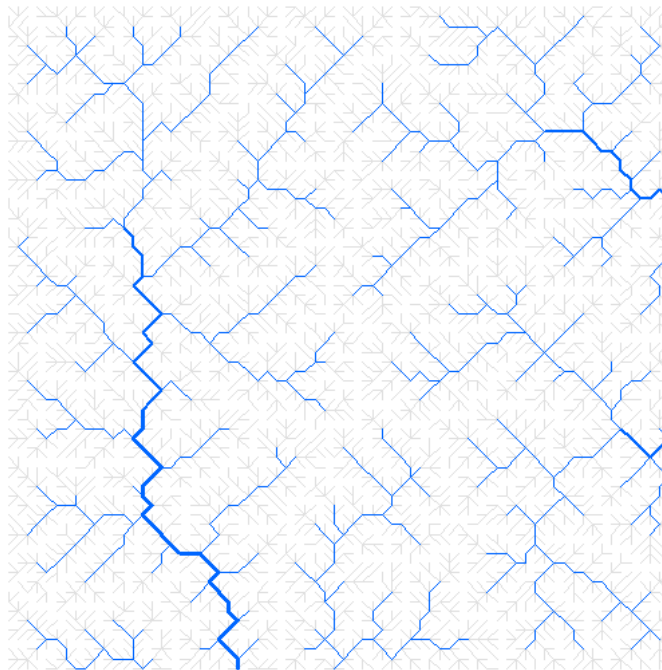


Figure 1: OCN: Multiple Outlets

2 OCN Single Outlet

```
1 dimX=70
2 dimY=70
3
4 OCN3=create_OCN(dimX, dimY, nOutlet = "All", cellsize = 100)
5
6 #OCN1=create_OCN(100, 100, nOutlet = 5, outletSide = "S", cellsize = 1000)
7 #outletpos = '100/3'
8 par(mai=c(0,0,0,0))
9 draw_simple_OCN(OCN3)
10
11 OCN_ele <- landscape_OCN(OCN, slope0 = 0.0015)
12
13 write.csv(OCN_ele[[1]][[13]], "OCN_DEM.csv")
```

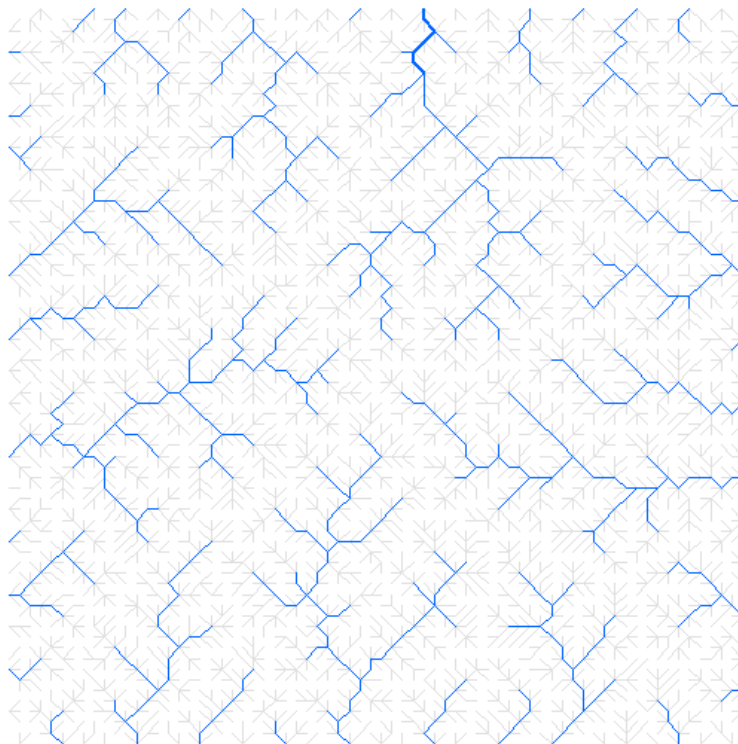


Figure 2: OCN: Single Outlet