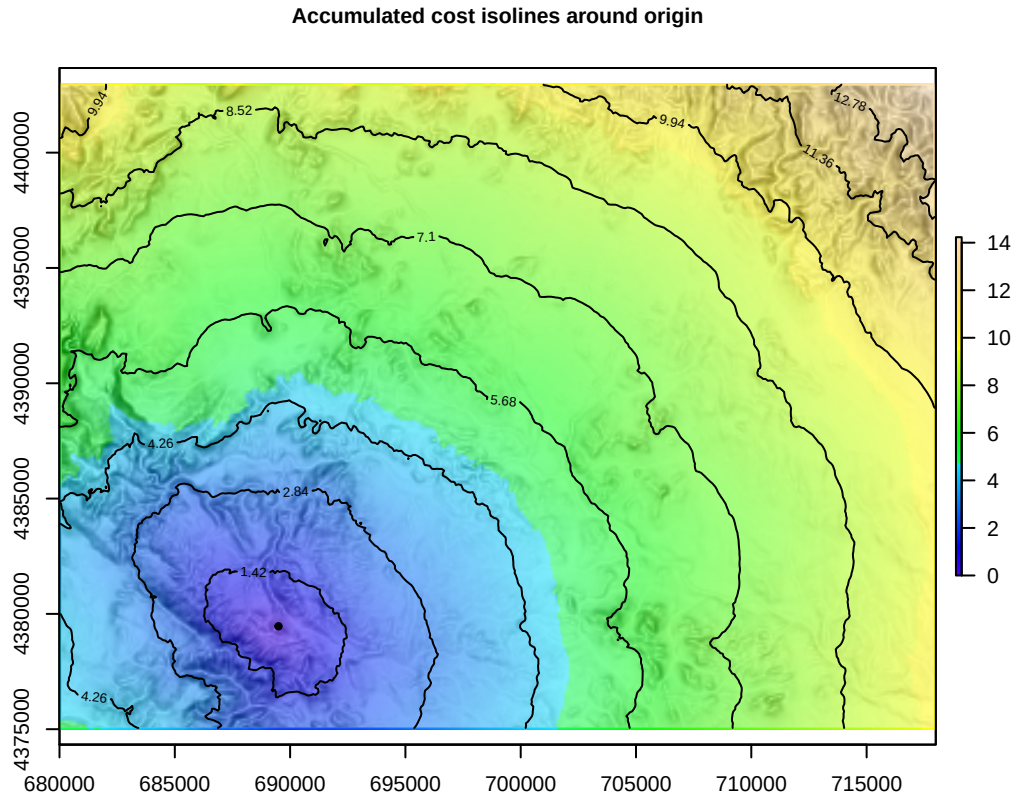
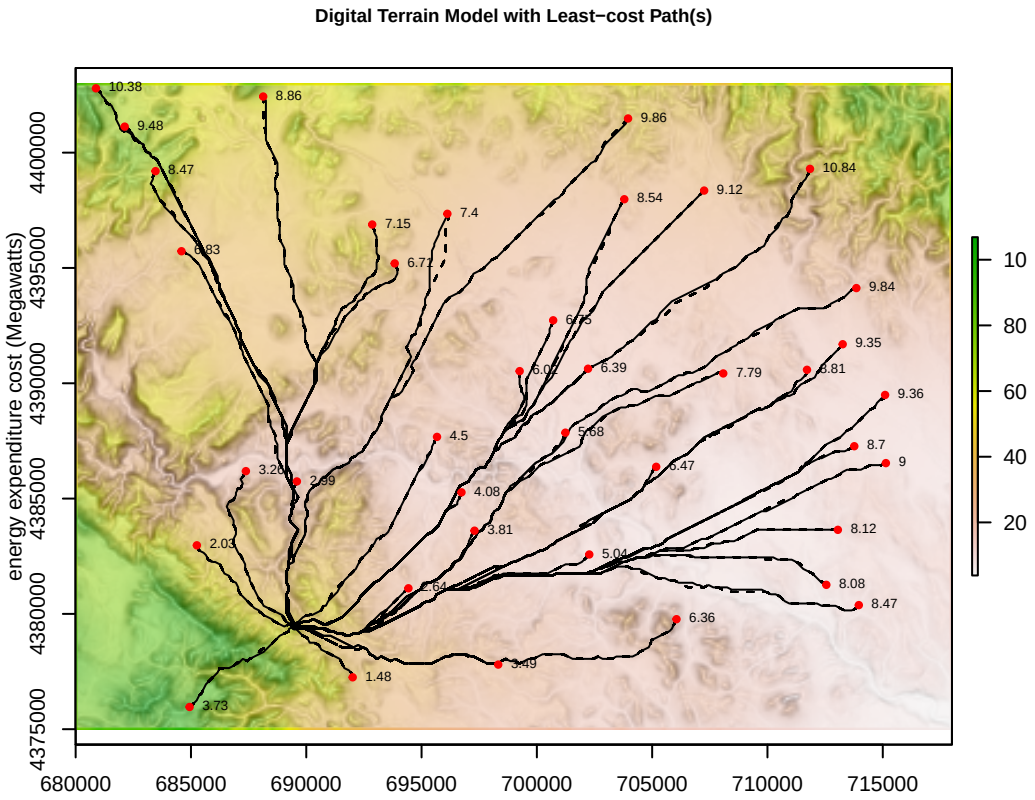
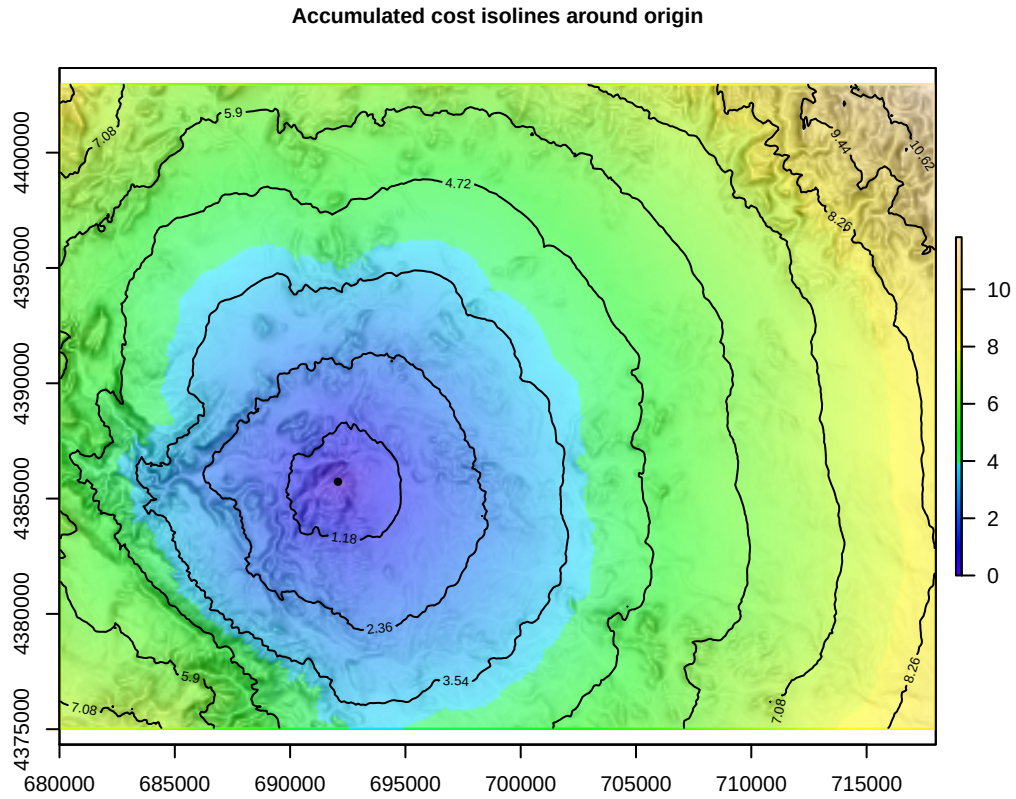


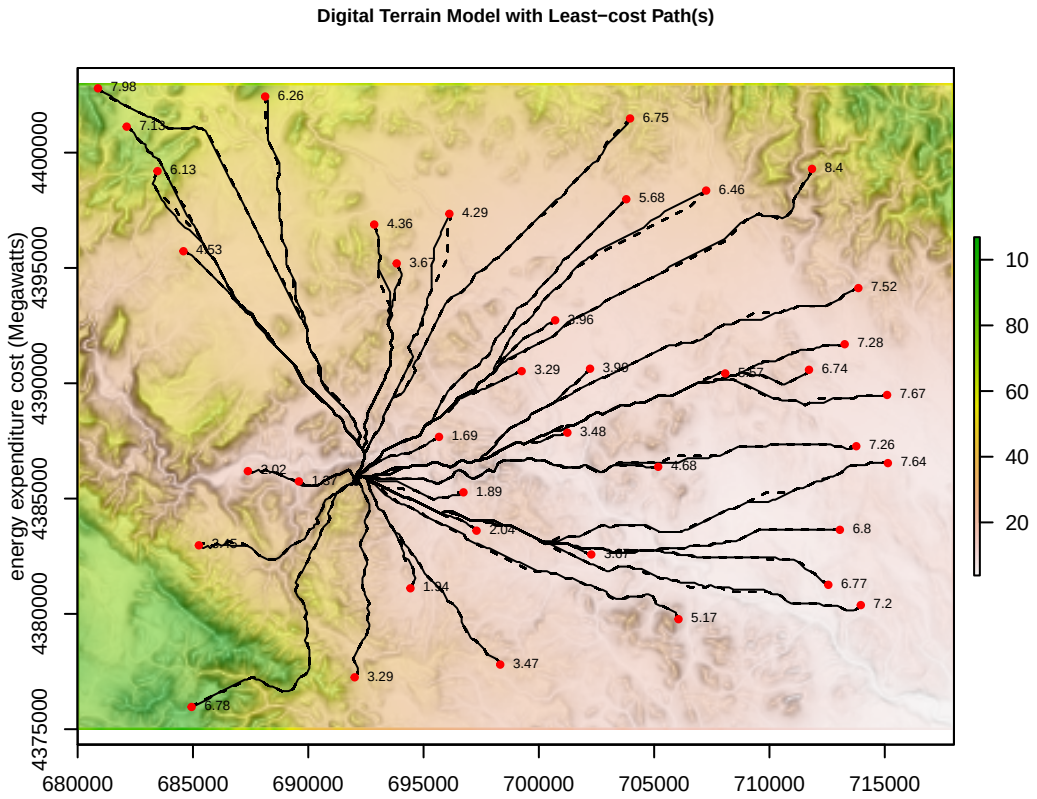

Cost based on the Pandolf et al.'s metabolic energy expenditure cost function
parameters: W: 70; L: 0; N: 1; V: 1.2




LCP(s) and cost distance(s) based on the Pandolf et al.'s metabolic energy expenditure cost function
cost in Megawatts; parameters: W: 70; L: 0; N: 1; V: 1.2
black dot=start location
red dot(s)=destination location(s)

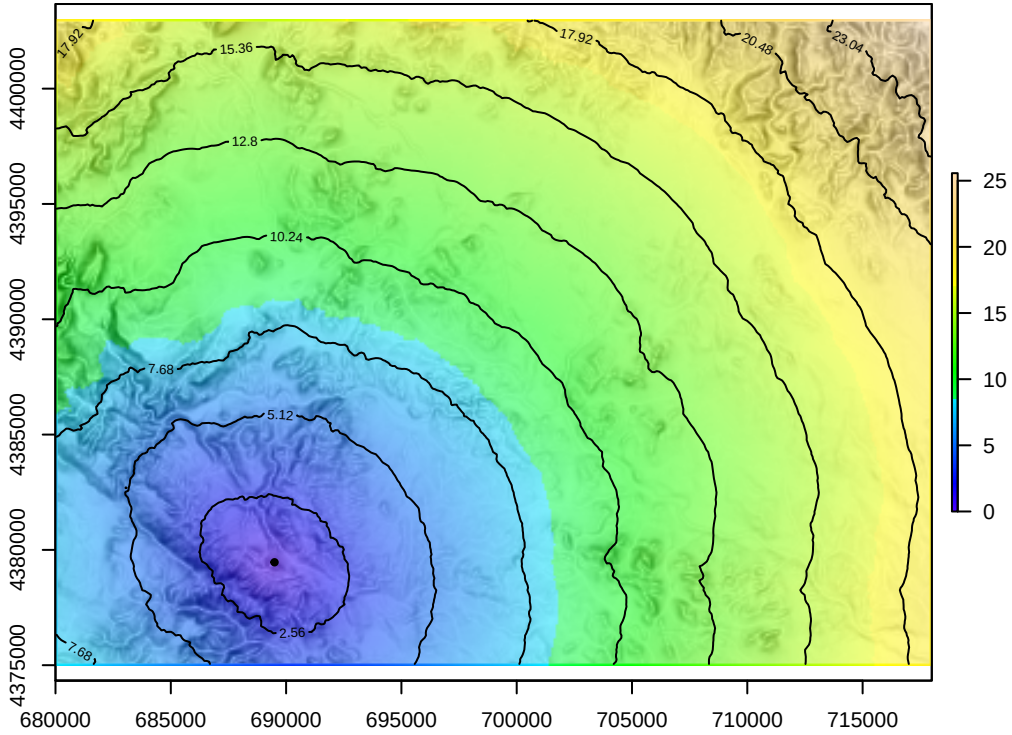



Cost based on the Pandolf et al.'s metabolic energy expenditure cost function
parameters: W: 70; L: 0; N: 1; V: 1.2



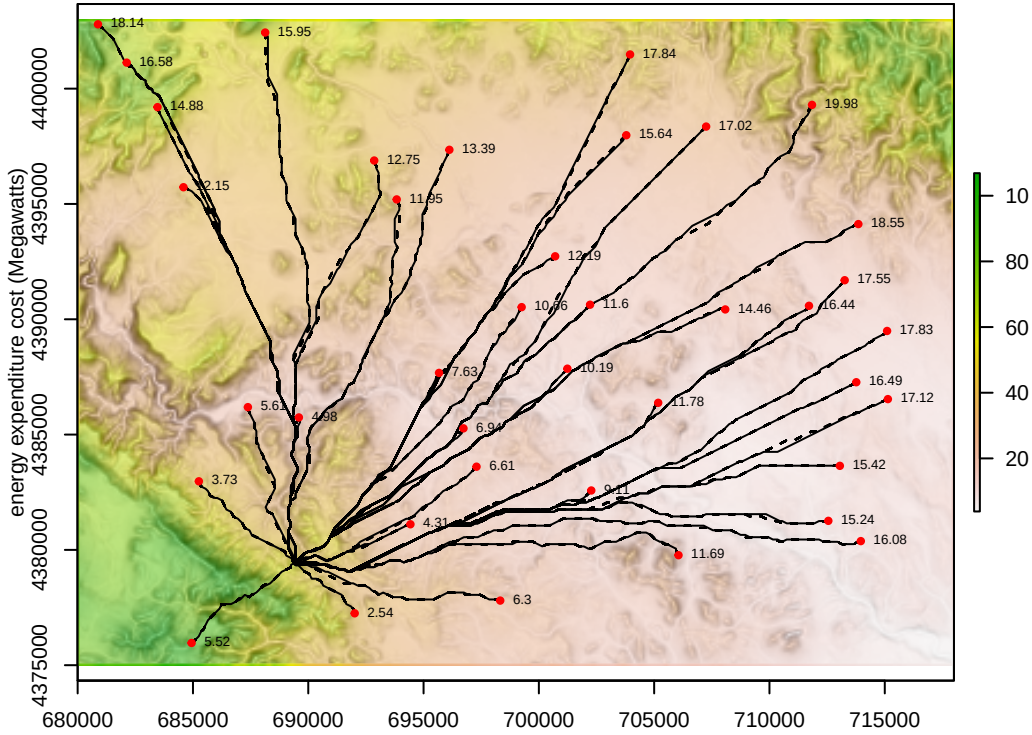

LCP(s) and cost distance(s) based on the Pandolf et al.'s metabolic energy expenditure cost function
cost in Megawatts; parameters: W: 70; L: 0; N: 1; V: 1.2
black dot=start location
red dot(s)=destination location(s)

**Accumulated cost isolines around origin**



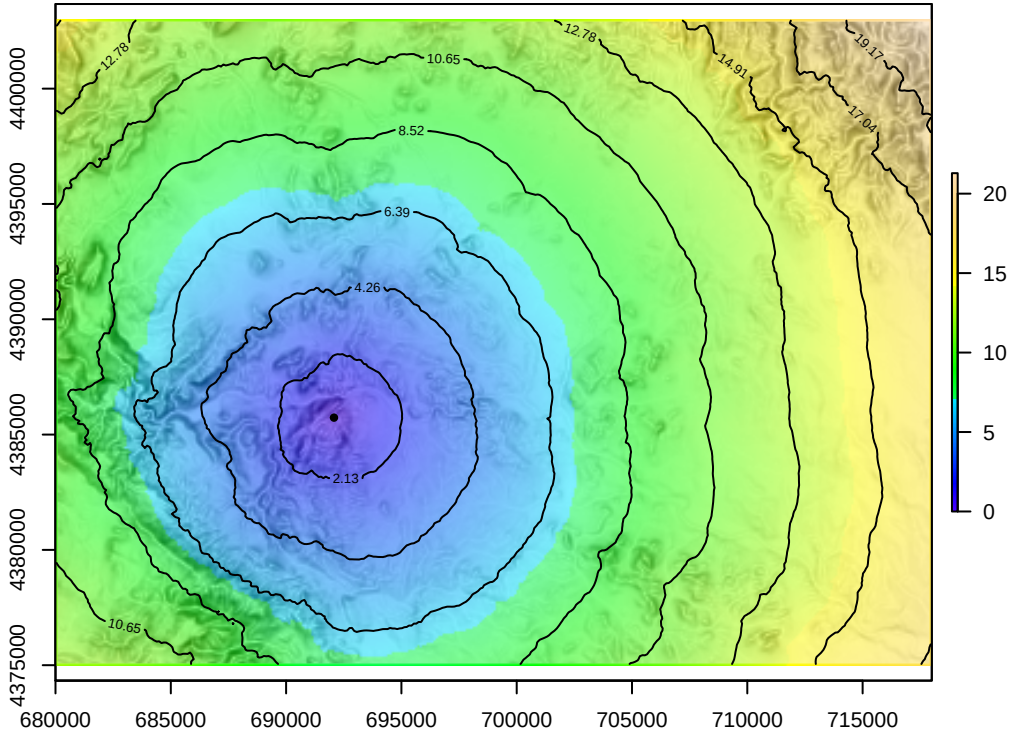

Cost based on the Van Leusen's metabolic energy expenditure cost function
parameters: W: 70; L: 0; N: 1; V: 1.2

**Digital Terrain Model with Least−cost Path(s)**



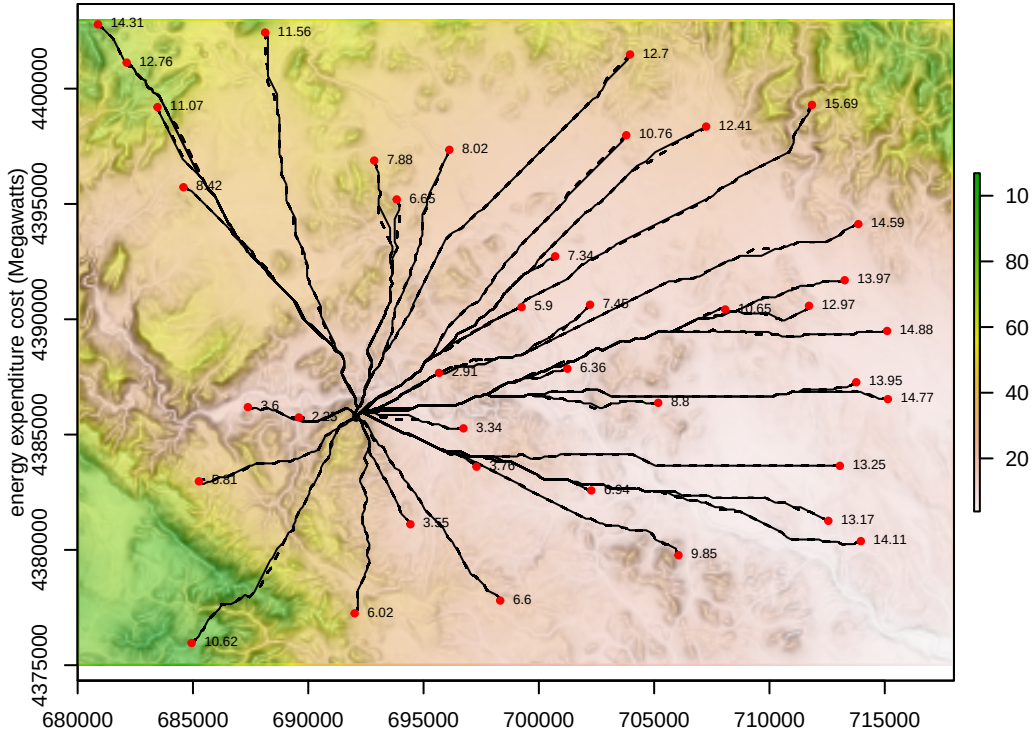

LCP(s) and cost distance(s) based on the Van Leusen's metabolic energy expenditure cost function
cost in Megawatts; parameters: W: 70; L: 0; N: 1; V: 1.2
black dot=start location
red dot(s)=destination location(s)

**Accumulated cost isolines around origin**



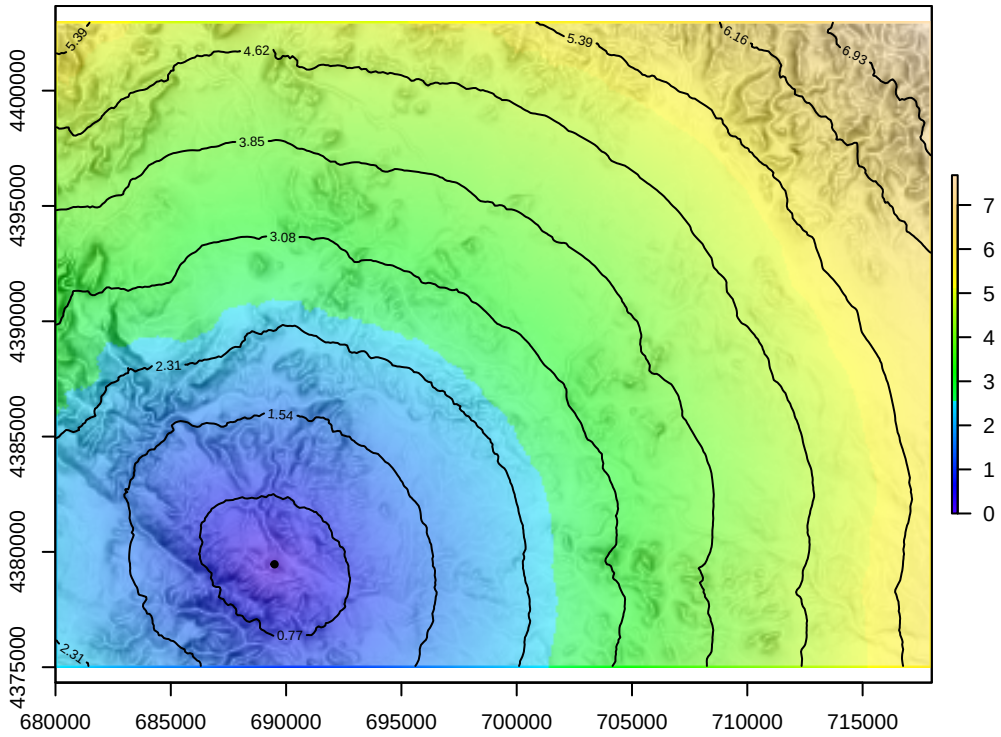

Cost based on the Van Leusen's metabolic energy expenditure cost function
parameters: W: 70; L: 0; N: 1; V: 1.2

**Digital Terrain Model with Least−cost Path(s)**



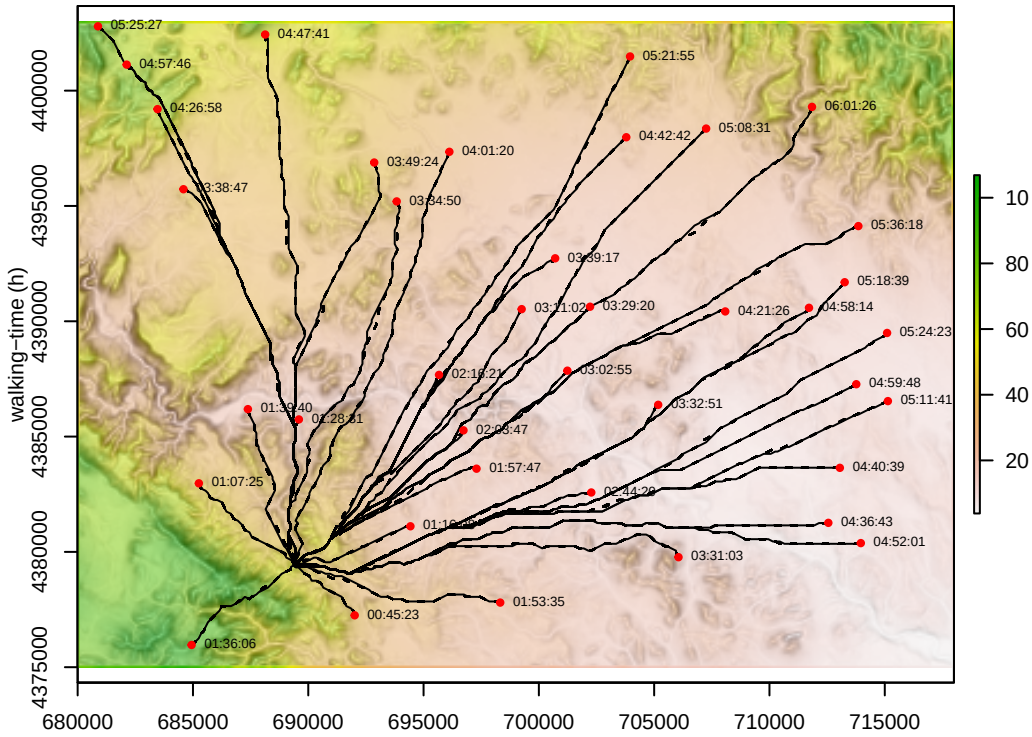

LCP(s) and cost distance(s) based on the Van Leusen's metabolic energy expenditure cost function
cost in Megawatts; parameters: W: 70; L: 0; N: 1; V: 1.2
black dot=start location
red dot(s)=destination location(s)

**Walking−time isochrones (in h) around origin**



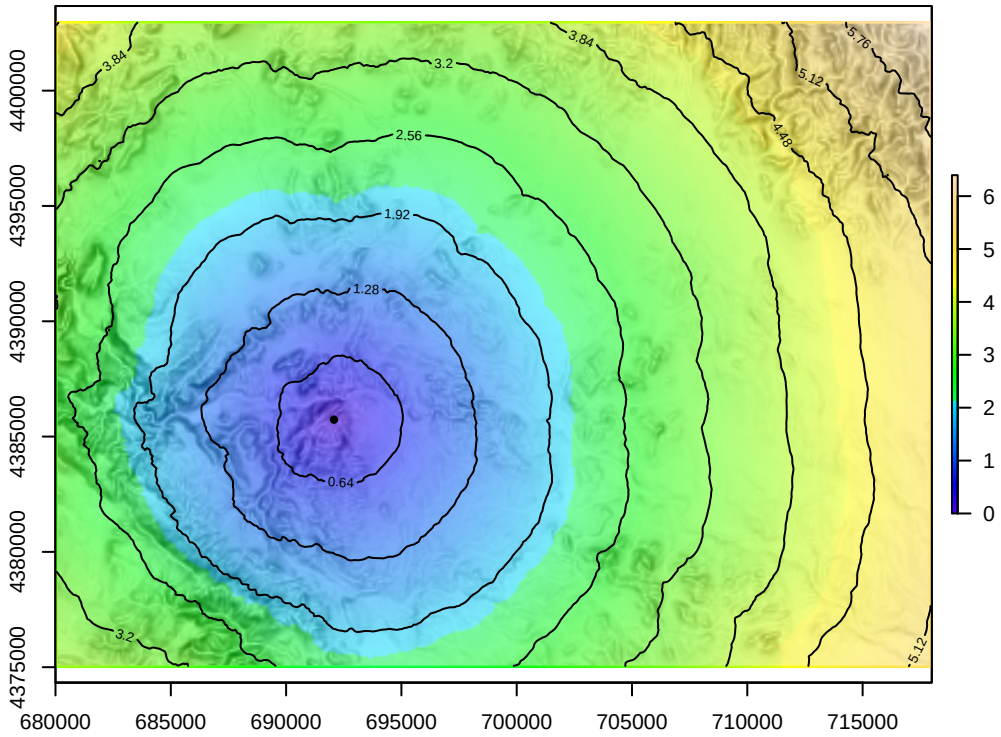

Walking−time based on the Uriarte Gonzalez's hiking function
terrain factor N=1

**Digital Terrain Model with Least−cost Path(s)**



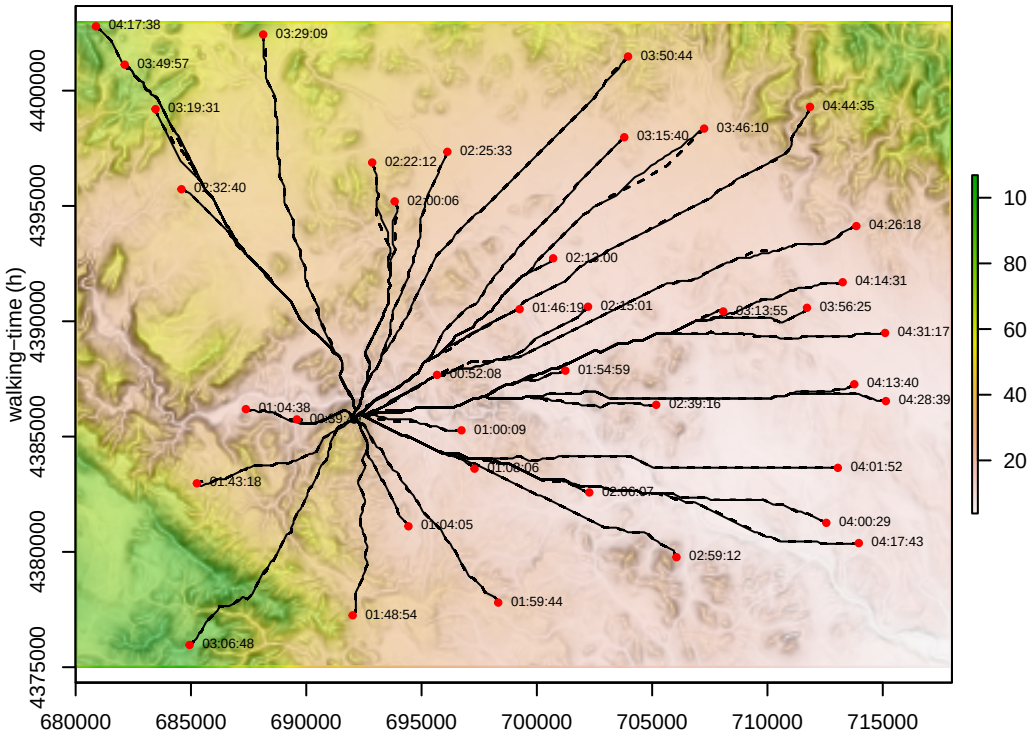

LCP(s) and walking−time distance(s) based on the Uriarte Gonzalez's hiking function
terrain factor N=1
black dot=start location
red dot(s)=destination location(s)

**Walking−time isochrones (in h) around origin**

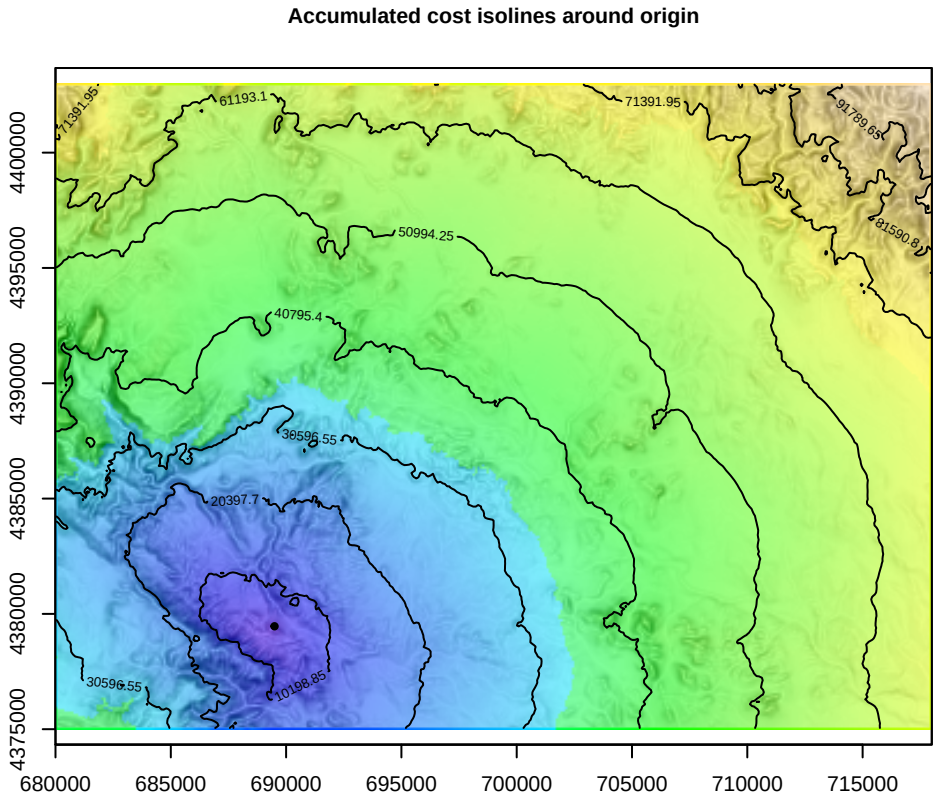


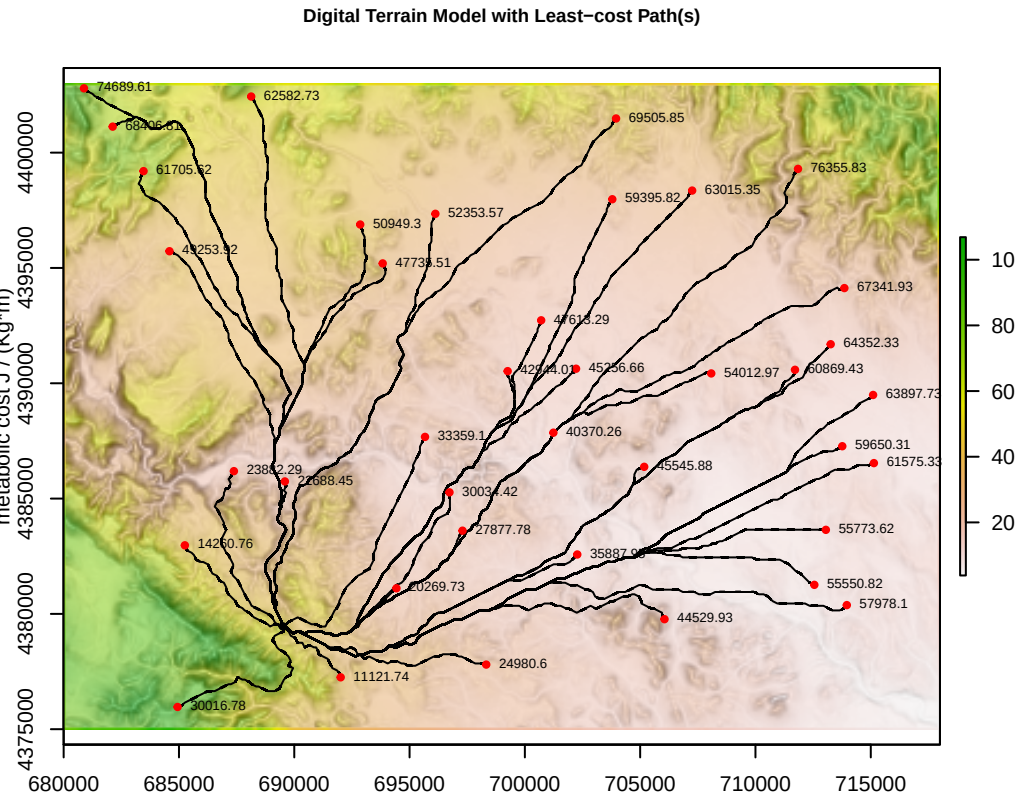

Walking−time based on the Uriarte Gonzalez's hiking function
terrain factor N=1

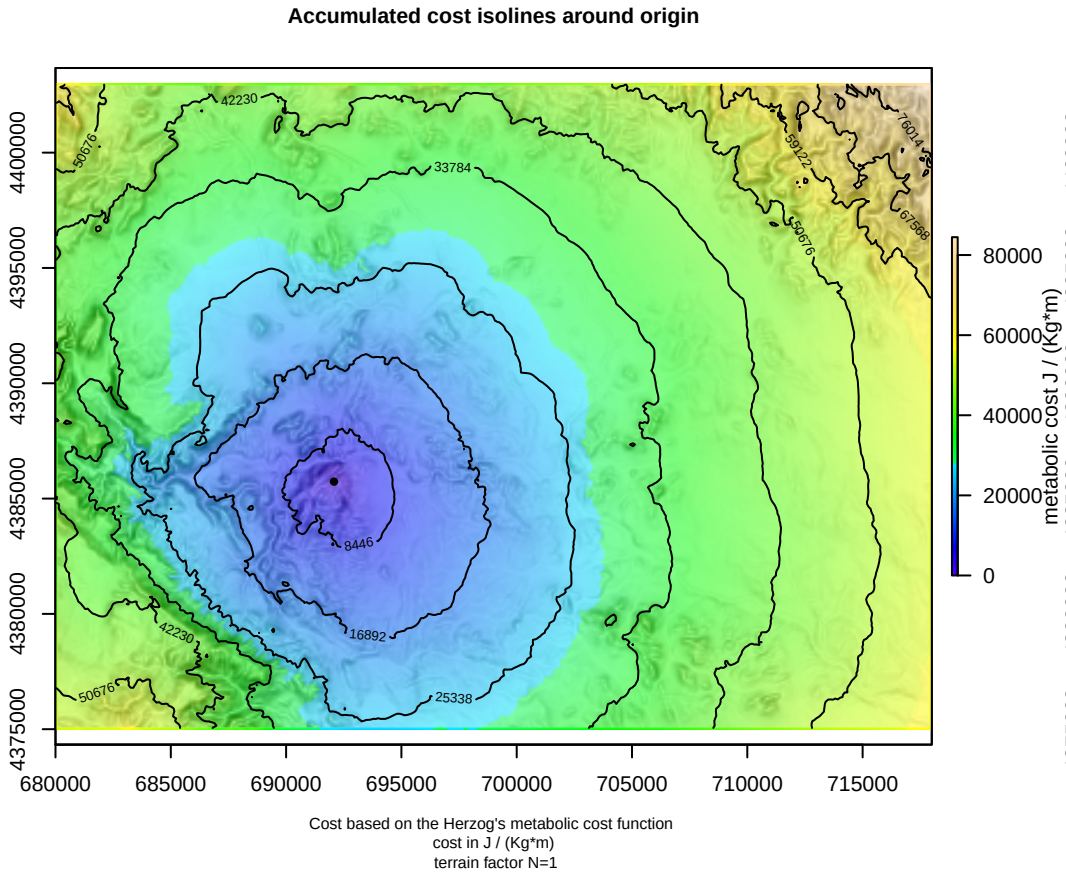
**Digital Terrain Model with Least−cost Path(s)**

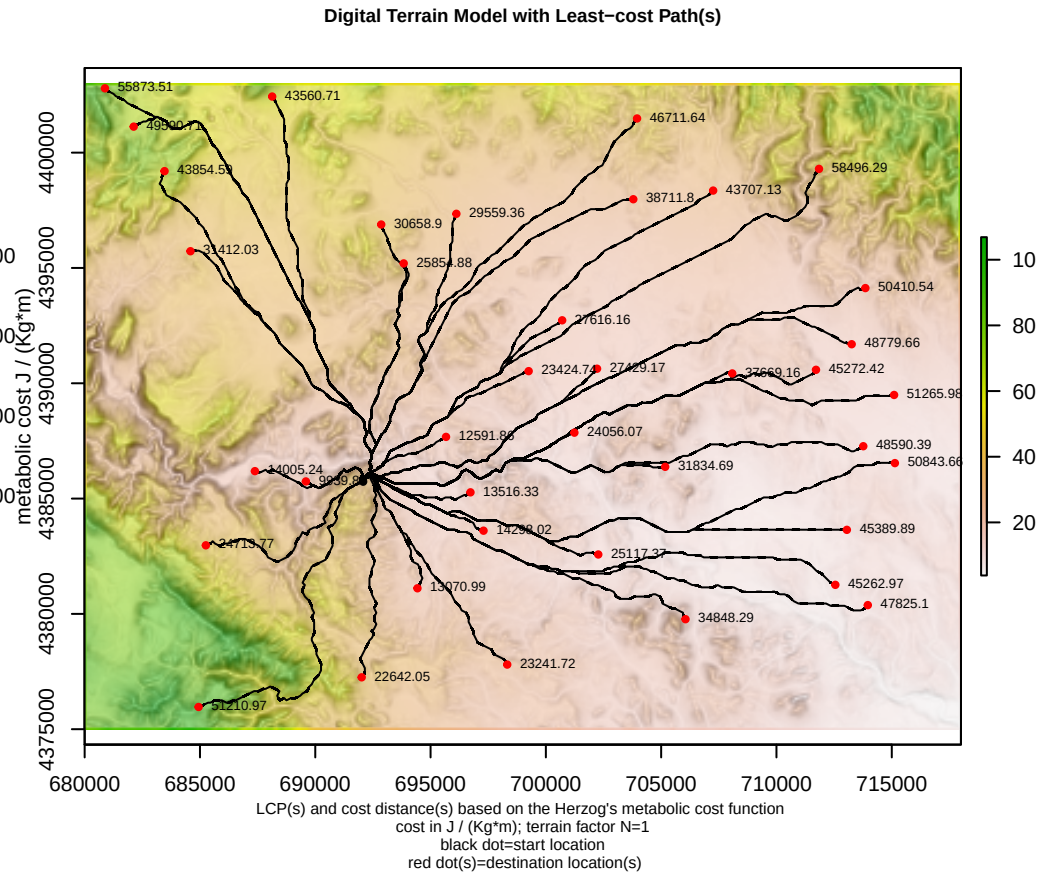


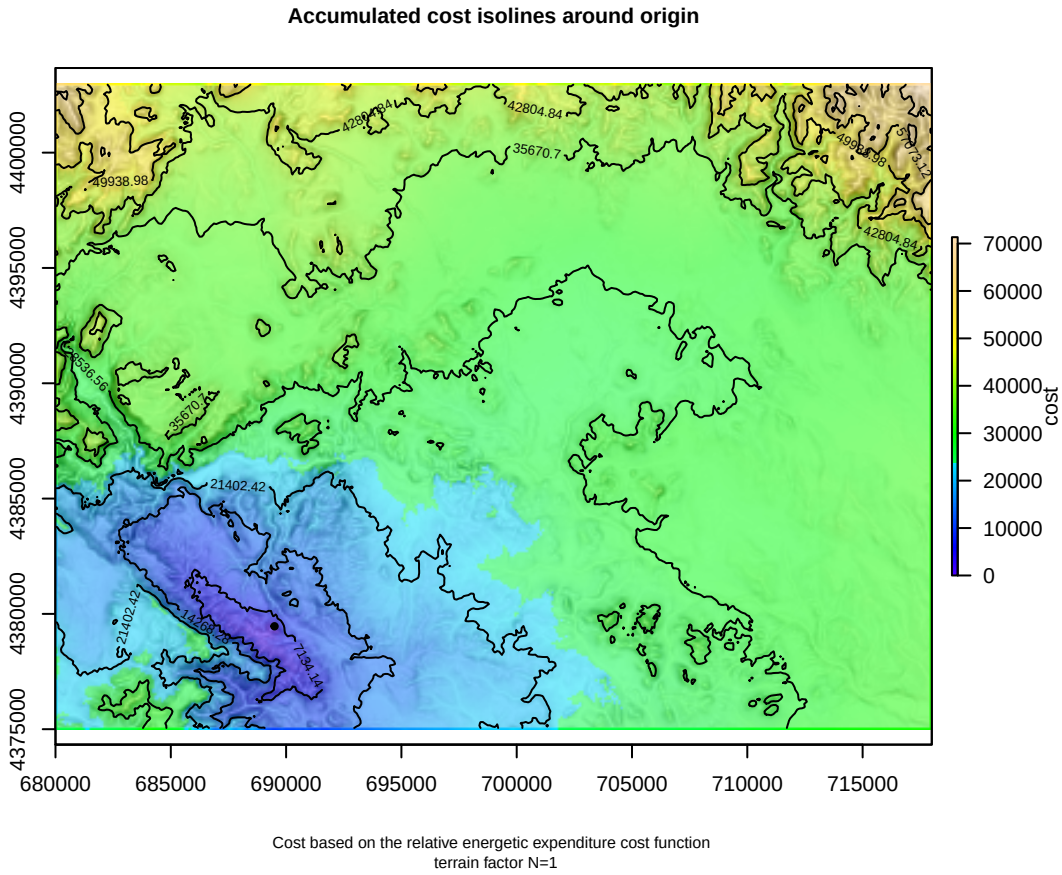

LCP(s) and walking−time distance(s) based on the Uriarte Gonzalez's hiking function
terrain factor N=1
black dot=start location
red dot(s)=destination location(s)

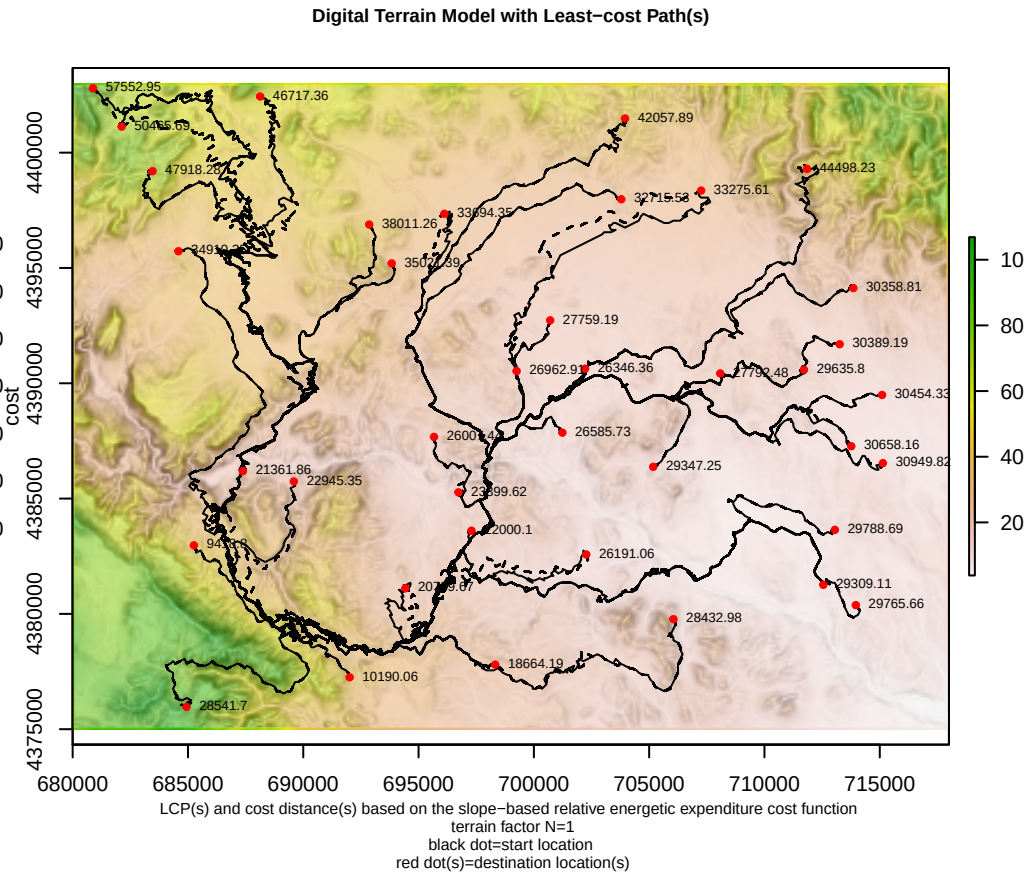

Accumulated cost isolines around origin
71391.95
61193.1
71391.95
91789.85
91590.8
50994.25
40795.4
30596.55
20397.7
30596.55
10198.85
4400000
4395000
4390000
4385000
4380000
4375000
680000
685000
690000
695000
700000
705000
710000
715000
1e+05
8e+04
6e+04
4e+04
2e+04
0e+00
metabolic cost J / (Kg*m)
Cost based on the Herzog's metabolic cost function
cost in J / (Kg*m)
terrain factor N=1


Digital Terrain Model with Least−cost Path(s)
74689.61
62582.73
69505.85
61705.62
76355.83
59395.82
63015.35
50949.3
52353.57
45253.92
47733.51
67341.93
42613.29
64352.33
42544.01
45256.66
54012.97
60869.43
63897.73
33359.1
40370.26
59650.31
23852.29
22688.45
45545.88
61575.33
30034.42
27877.78
55773.62
14260.76
35887.09
55550.82
30269.73
57978.1
44529.93
24980.6
11121.74
30016.78
4400000
4395000
4390000
4385000
4380000
4375000
680000
685000
690000
695000
700000
705000
710000
715000
10
80
60
40
20
metabolic cost J / (Kg*m)
LCP(s) and cost distance(s) based on the Herzog's metabolic cost function
cost in J / (Kg*m); terrain factor N=1
black dot=start location
red dot(s)=destination location(s)

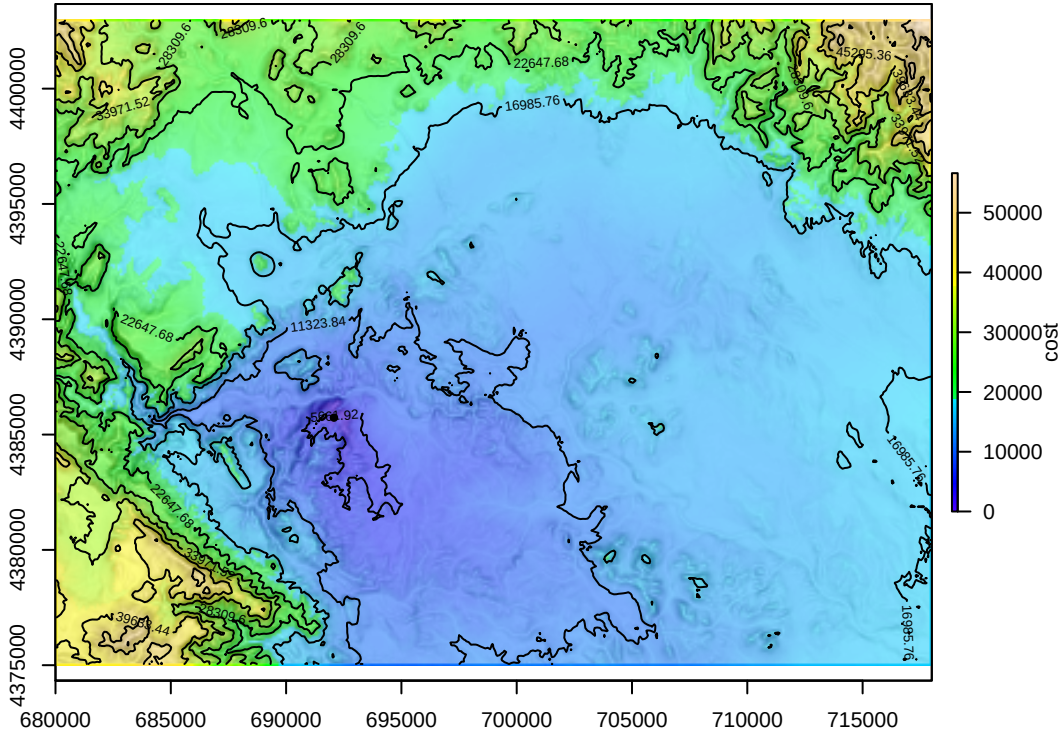

Accumulated cost isolines around origin
42230
50676
33784
59022
76014
67568
59676
8446
16892
42230
50676
25338
4400000
4395000
4390000
4385000
4380000
4375000
680000
685000
690000
695000
700000
705000
710000
715000
80000
60000
40000
20000
0
Cost based on the Herzog's metabolic cost function
cost in J / (Kg*m)
terrain factor N=1


Digital Terrain Model with Least−cost Path(s)
55873.51
43560.71
49990.71
46711.64
43854.59
58496.29
38711.8
43707.13
30658.9
29559.36
31412.03
25854.88
50410.54
27616.16
48779.66
23424.74
27429.17
37669.16
45272.42
51265.98
12591.86
24056.07
48590.39
14005.24
31834.69
50843.66
13516.33
14298.02
45389.89
24713.77
25117.37
45262.97
13070.99
47825.1
34848.29
23241.72
22642.05
51210.97
metabolic cost J / (Kg*m)
4400000
4395000
4390000
4385000
4380000
4375000
680000
685000
690000
695000
700000
705000
710000
715000
10
80
60
40
20
LCP(s) and cost distance(s) based on the Herzog's metabolic cost function
cost in J / (Kg*m); terrain factor N=1
black dot=start location
red dot(s)=destination location(s)


Accumulated cost isolines around origin
4400000
4395000
4390000
4385000
4380000
4375000
680000
685000
690000
695000
700000
705000
710000
715000
49938.98
42804.84
35670.7
28536.56
21402.42
14268.28
7134.14
70000
60000
50000
40000
30000
20000
10000
0
Cost based on the relative energetic expenditure cost function
terrain factor N=1

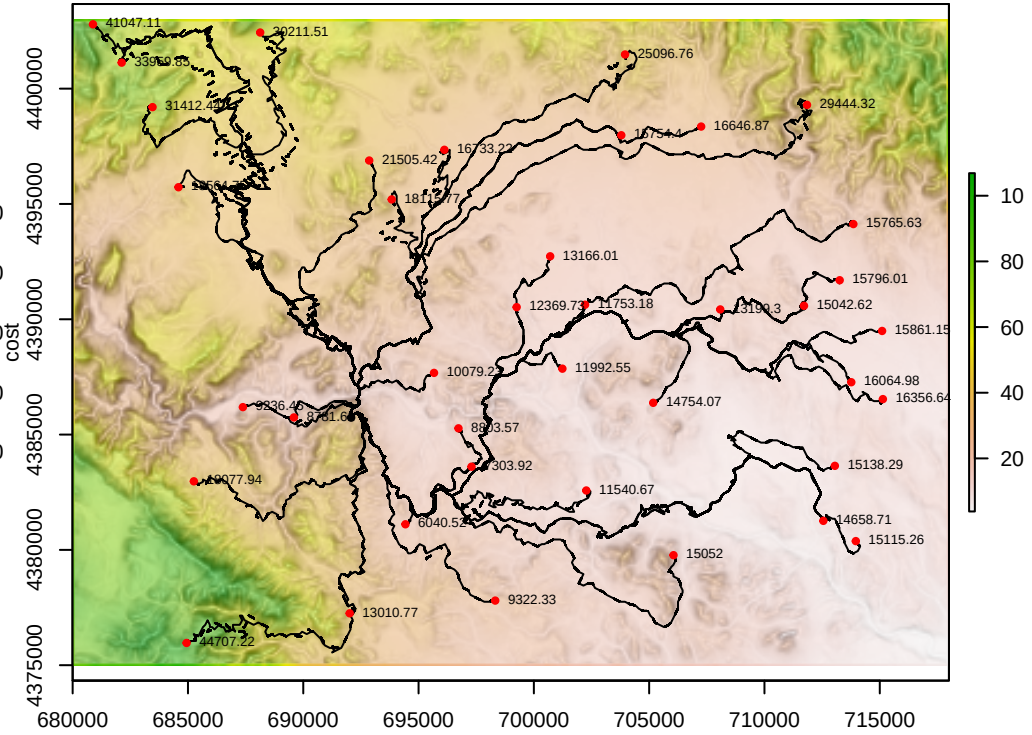

Digital Terrain Model with Least−cost Path(s)
cost
4400000
4395000
4390000
4385000
4380000
4375000
680000
685000
690000
695000
700000
705000
710000
715000
57552.95
46717.36
42057.89
44498.23
33275.61
38011.26
33694.35
30358.81
27759.19
30389.19
26962.91
26346.36
29635.8
30454.33
26585.73
30658.16
30949.82
21361.86
22945.35
29347.25
29788.69
26191.06
29309.11
29765.66
28432.98
18664.19
10190.06
28541.7
10
80
60
40
20
LCP(s) and cost distance(s) based on the slope−based relative energetic expenditure cost function
terrain factor N=1
black dot=start location
red dot(s)=destination location(s)

**Accumulated cost isolines around origin**



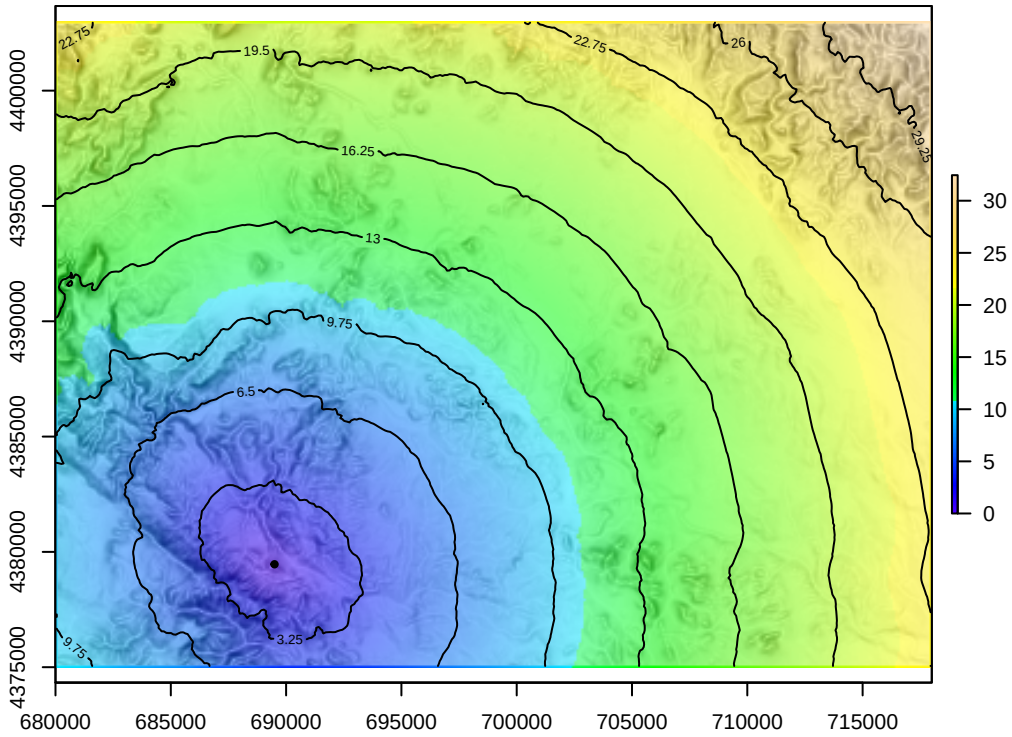

Cost based on the relative energetic expenditure cost function
terrain factor N=1

**Digital Terrain Model with Least−cost Path(s)**



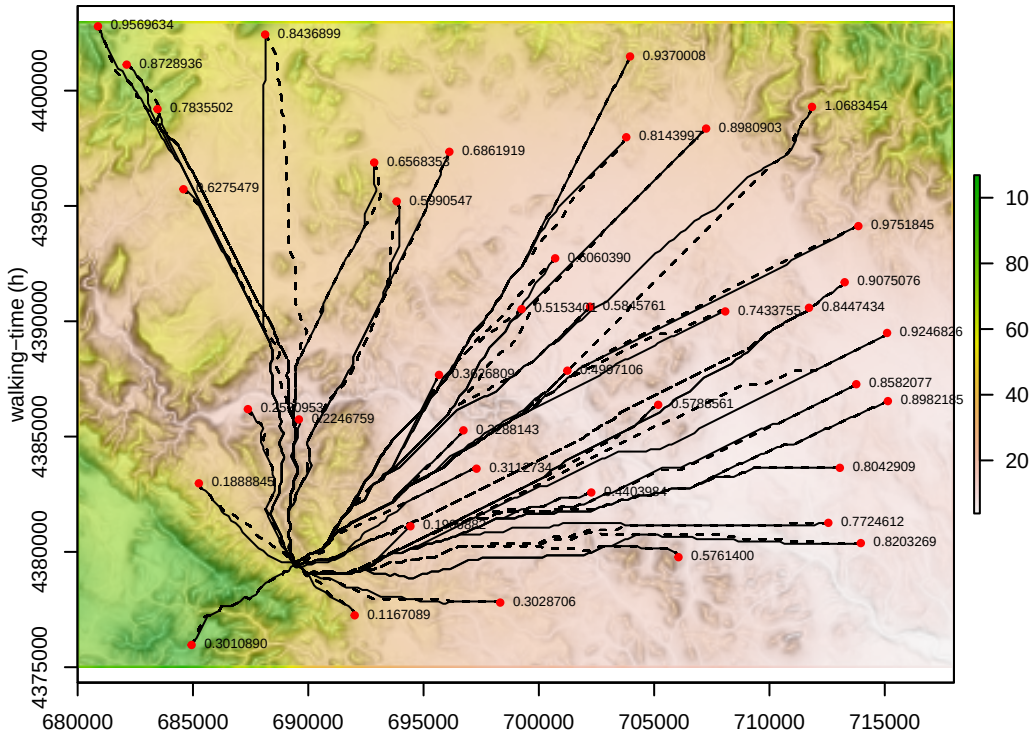

LCP(s) and cost distance(s) based on the slope−based relative energetic expenditure cost function
terrain factor N=1
black dot=start location
red dot(s)=destination location(s)

**Walking−time isochrones (in h) around origin**



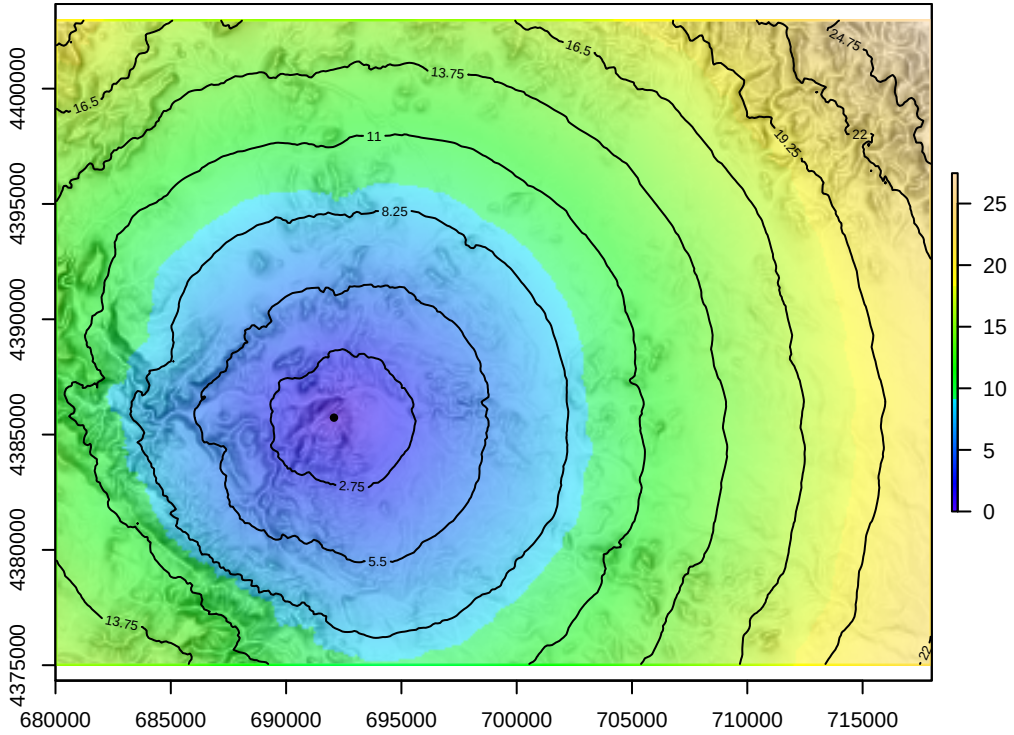

Walking−time based on the Alberti's modified Tobler hiking function

**Digital Terrain Model with Least−cost Path(s)**



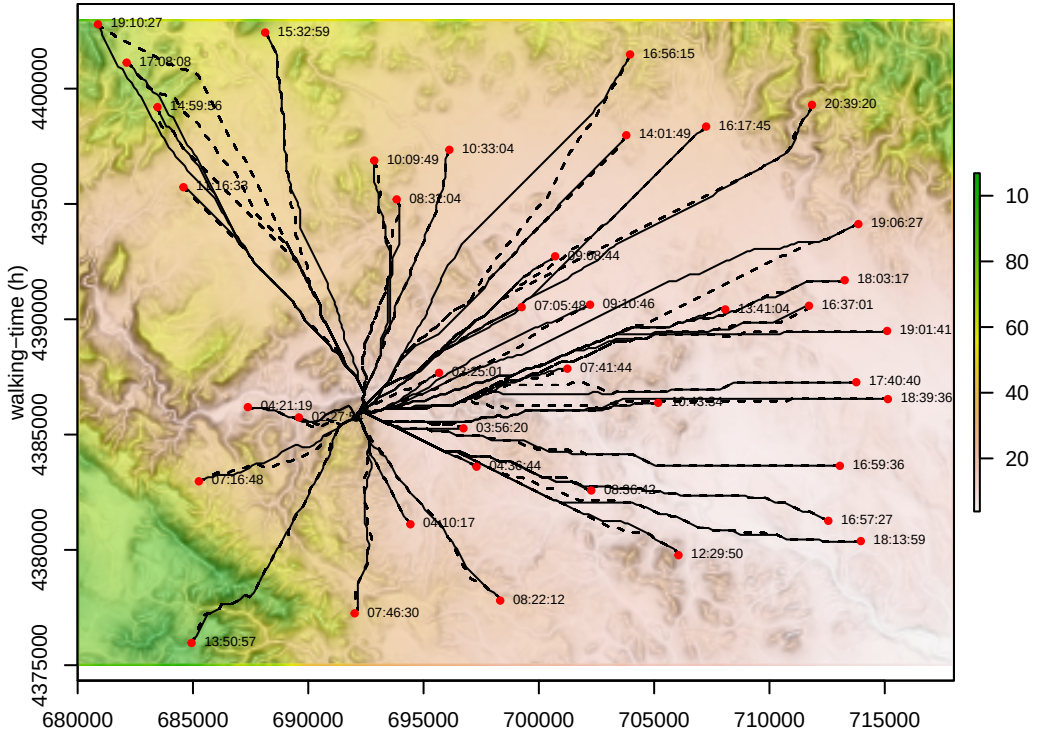

LCP(s) and walking−time distance(s) based on the Alberti's modified Tobler hiking function
black dot=start location
red dot(s)=destination location(s)

**Walking−time isochrones (in h) around origin**

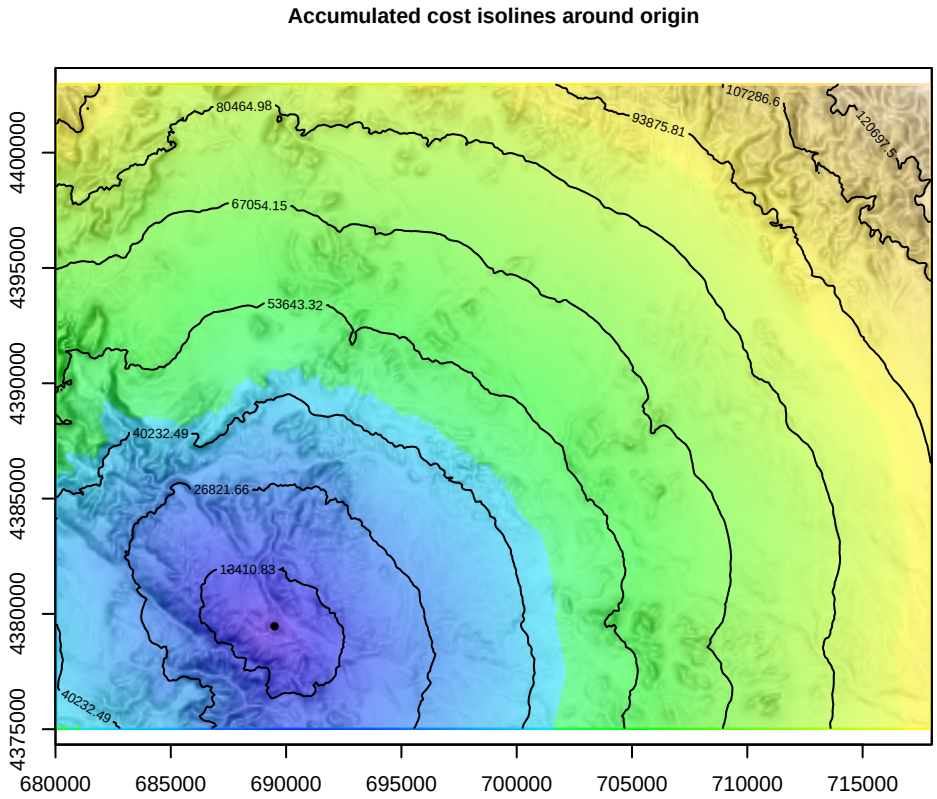



Walking−time based on the Alberti's modified Tobler hiking function

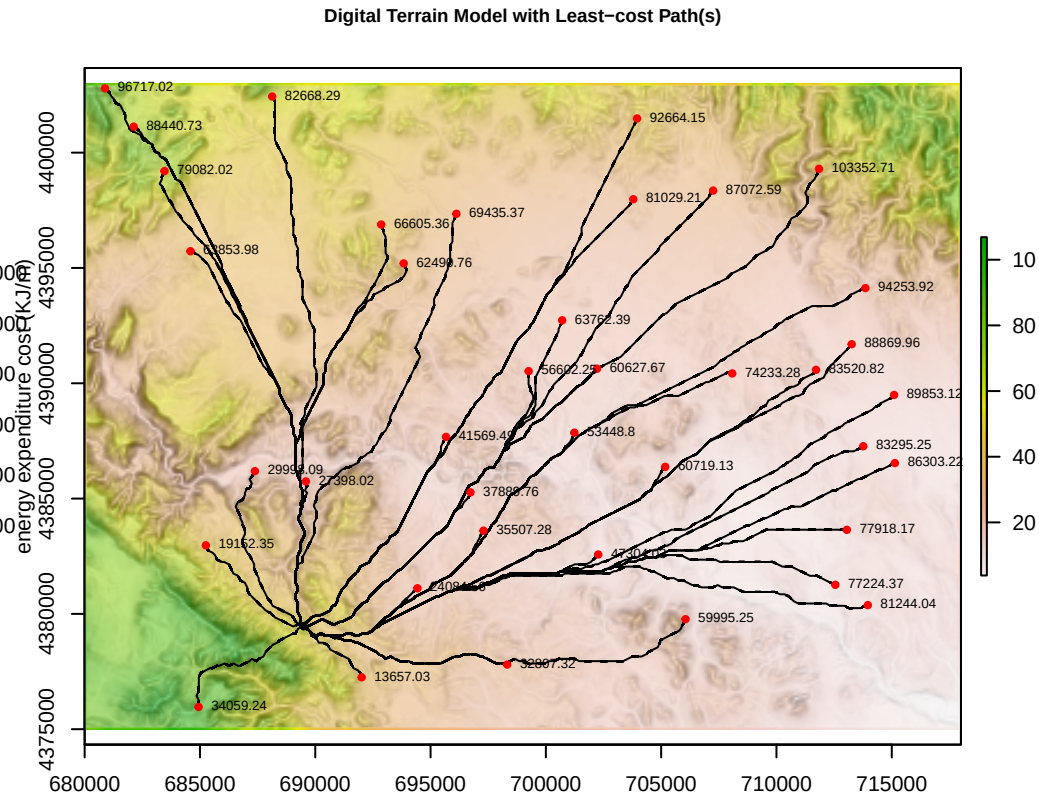
**Digital Terrain Model with Least−cost Path(s)**




LCP(s) and walking−time distance(s) based on the Alberti's modified Tobler hiking function
black dot=start location
red dot(s)=destination location(s)

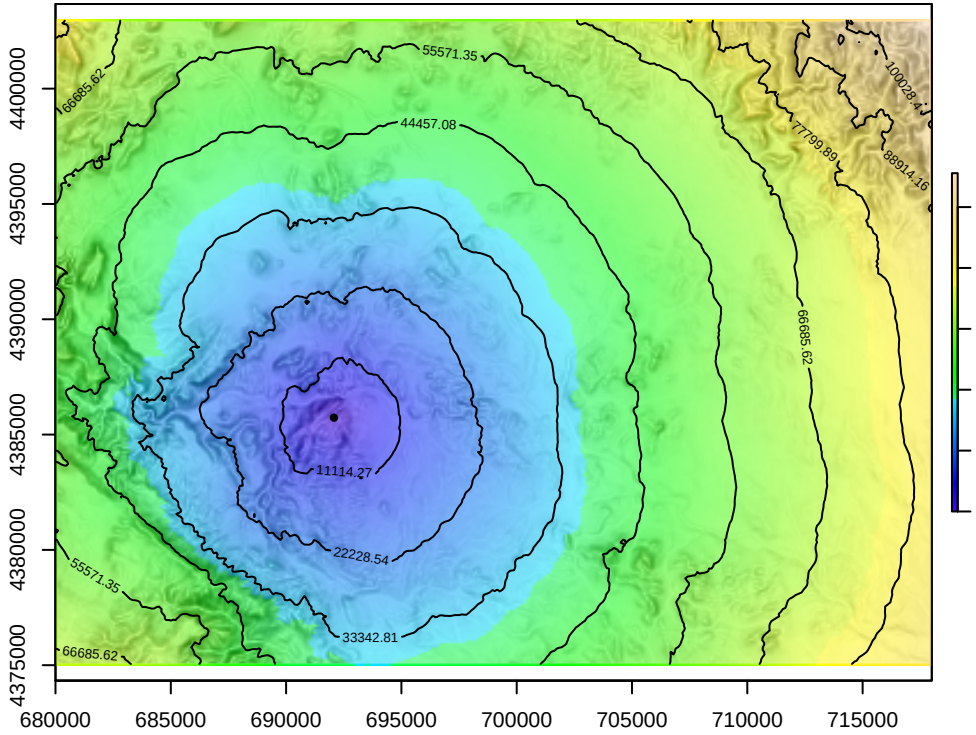



Cost based on the Llobera−Sluckin's metabolic energy expenditure cost function
terrain factor N=1



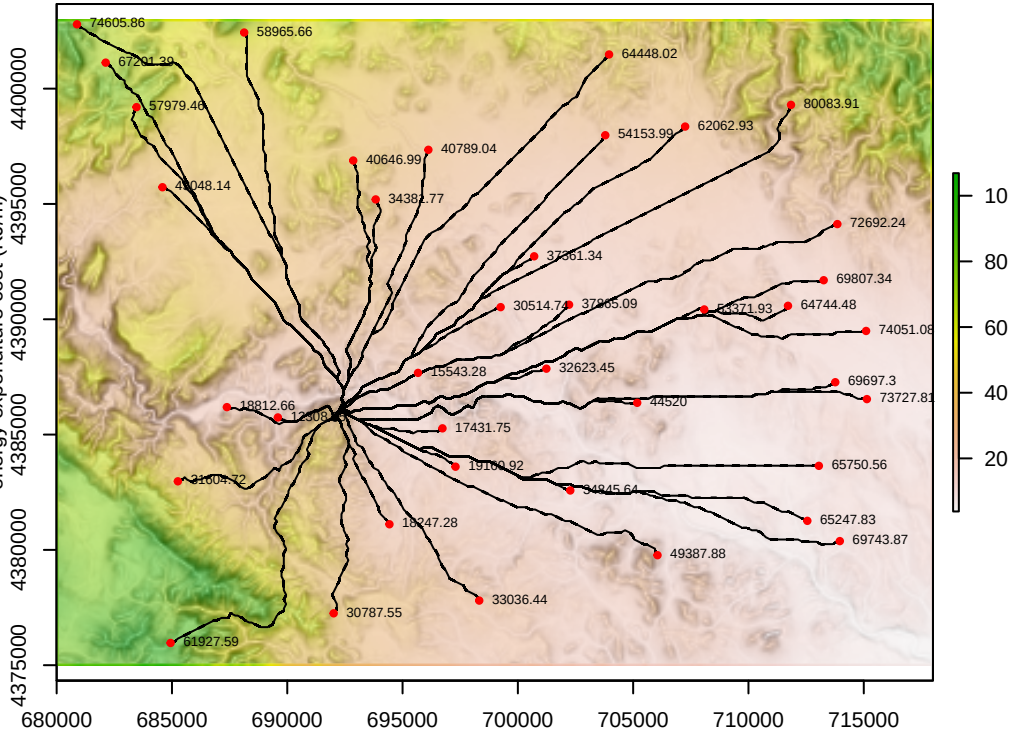

LCP(s) and cost distance(s) based on the Llobera−Sluckin's metabolic energy expenditure cost function
cost in KJ/m; terrain factor N=1
black dot=start location
red dot(s)=destination location(s)

**Accumulated cost isolines around origin**



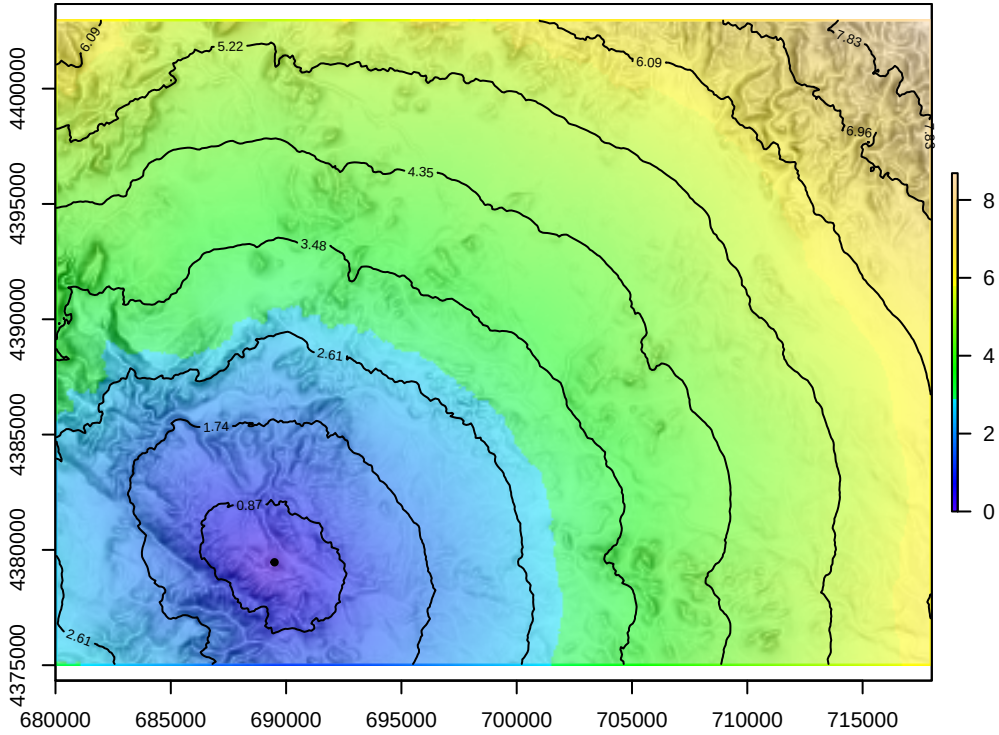

Cost based on the Llobera−Sluckin's metabolic energy expenditure cost function
terrain factor N=1

**Digital Terrain Model with Least−cost Path(s)**



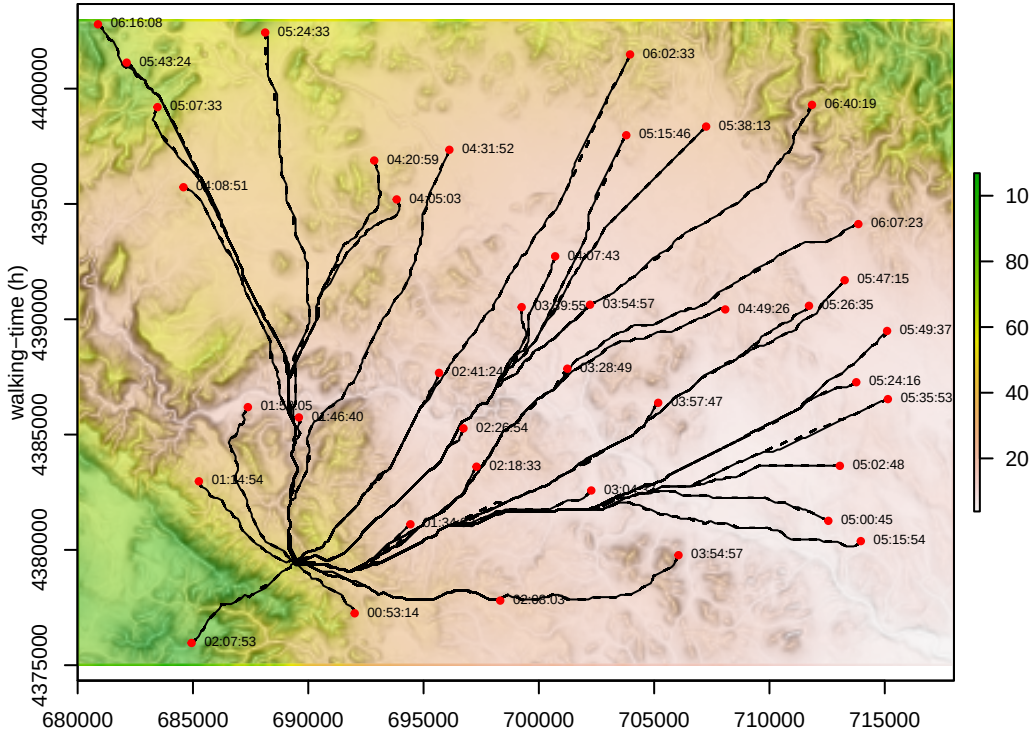

LCP(s) and cost distance(s) based on the Llobera−Sluckin's metabolic energy expenditure cost function
cost in KJ/m; terrain factor N=1
black dot=start location
red dot(s)=destination location(s)

**Walking−time isochrones (in h) around origin**



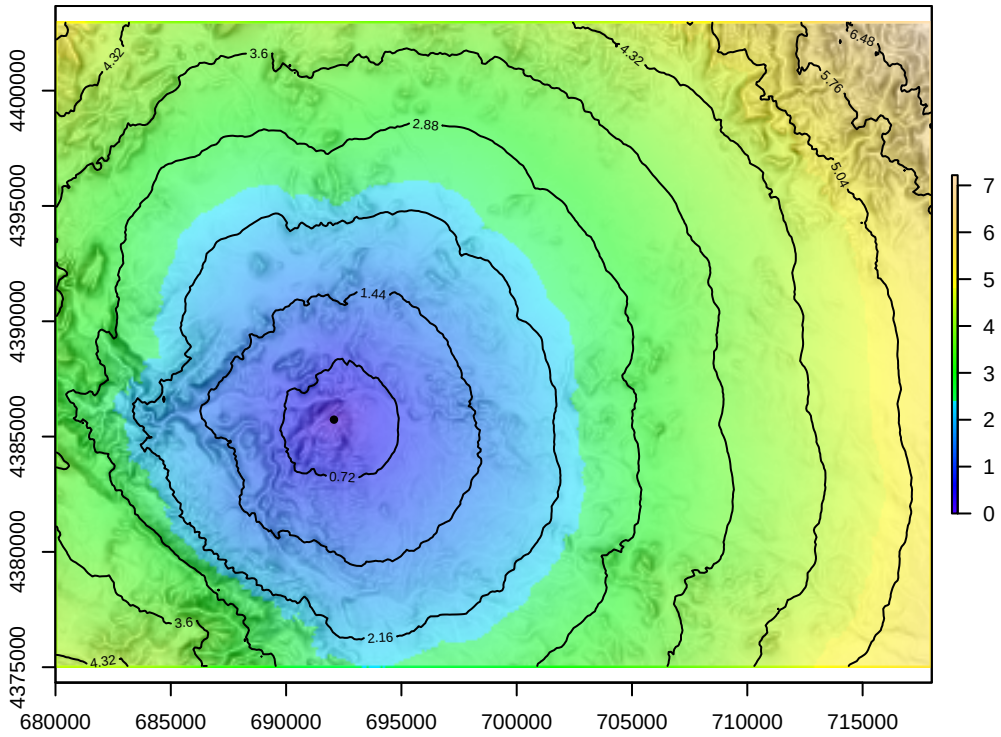

Walking−time based on the Marin Arroyo's hiking function
terrain factor N=1

**Digital Terrain Model with Least−cost Path(s)**



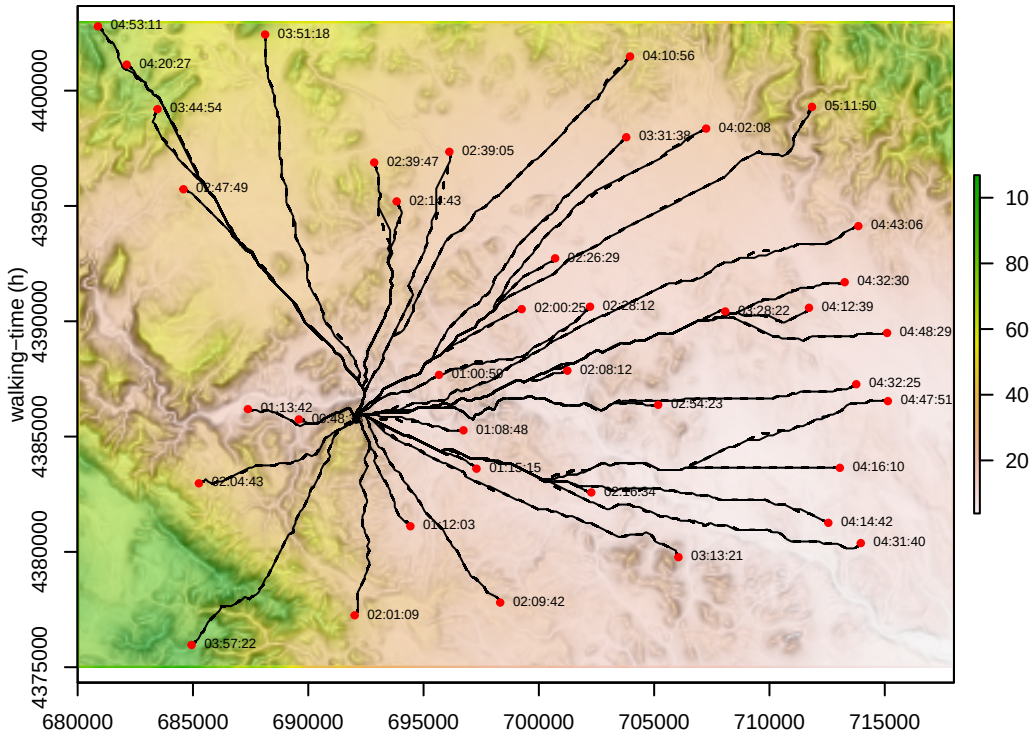

LCP(s) and walking−time distance(s) based on the Marin Arroyo's hiking function
terrain factor N=1
black dot=start location
red dot(s)=destination location(s)

**Walking−time isochrones (in h) around origin**




Walking−time based on the Marin Arroyo's hiking function
terrain factor N=1

**Digital Terrain Model with Least−cost Path(s)**




LCP(s) and walking−time distance(s) based on the Marin Arroyo's hiking function
terrain factor N=1
black dot=start location
red dot(s)=destination location(s)