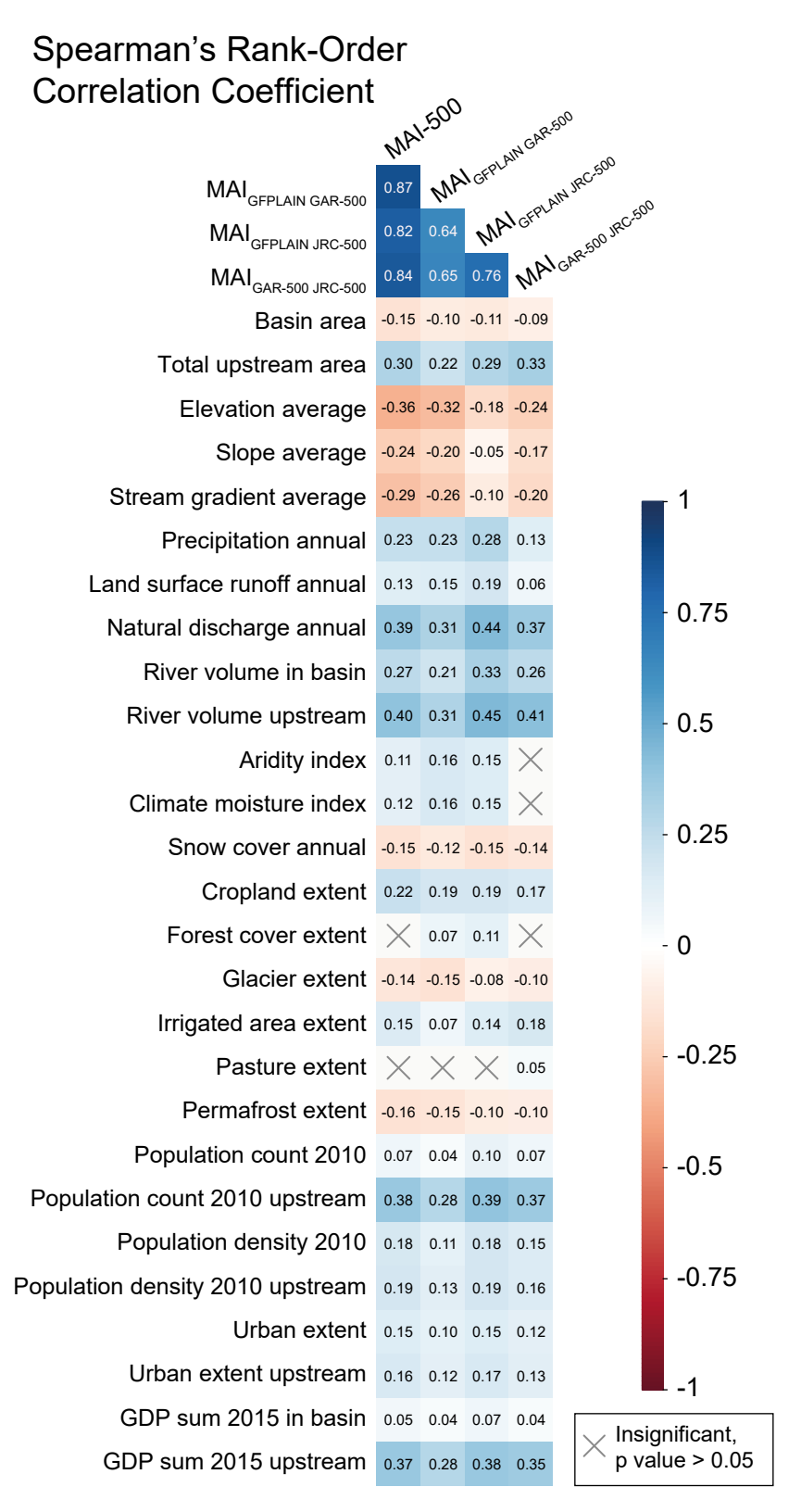
Spearman's Rank-Order Correlation Coefficient
MAI-500
MAI GFPLAIN GAR-500
MAI GFPLAIN JRC-500
MAI GAR-500 JRC-500
MAI GFPLAIN GAR-500 0.87
MAI GFPLAIN JRC-500 0.82 0.64
MAI GAR-500 JRC-500 0.84 0.65 0.76
Basin area -0.15 -0.10 -0.11 -0.09
Total upstream area 0.30 0.22 0.29 0.33
Elevation average -0.36 -0.32 -0.18 -0.24
Slope average -0.24 -0.20 -0.05 -0.17
Stream gradient average -0.29 -0.26 -0.10 -0.20
Precipitation annual 0.23 0.23 0.28 0.13
Land surface runoff annual 0.13 0.15 0.19 0.06
Natural discharge annual 0.39 0.31 0.44 0.37
River volume in basin 0.27 0.21 0.33 0.26
River volume upstream 0.40 0.31 0.45 0.41
Aridity index 0.11 0.16 0.15
Climate moisture index 0.12 0.16 0.15
Snow cover annual -0.15 -0.12 -0.15 -0.14
Cropland extent 0.22 0.19 0.19 0.17
Forest cover extent 0.07 0.11
Glacier extent -0.14 -0.15 -0.08 -0.10
Irrigated area extent 0.15 0.07 0.14 0.18
Pasture extent 0.05
Permafrost extent -0.16 -0.15 -0.10 -0.10
Population count 2010 0.07 0.04 0.10 0.07
Population count 2010 upstream 0.38 0.28 0.39 0.37
Population density 2010 0.18 0.11 0.18 0.15
Population density 2010 upstream 0.19 0.13 0.19 0.16
Urban extent 0.15 0.10 0.15 0.12
Urban extent upstream 0.16 0.12 0.17 0.13
GDP sum 2015 in basin 0.05 0.04 0.07 0.04
GDP sum 2015 upstream 0.37 0.28 0.38 0.35
1
0.75
0.5
0.25
0
-0.25
-0.5
-0.75
-1
Insignificant, p value > 0.05