

# Ag

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0016 - 0.0028
- + > 0.0013 - 0.0016
- > 0.0006 - 0.0013
- > 0.0003 - 0.0006
- 0.0000 - 0.0003



0 5 10 km

# Al

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 72.9 - 228
- + > 40.9 - 72.9
- > 11.7 - 40.9
- > 6.04 - 11.7
- 3.00 - 6.04



0 5 10 km

# As

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.252 - 1.34
- + > 0.0932 - 0.252
- > 0.0354 - 0.0932
- > 0.0248 - 0.0354
- 0.0179 - 0.0248



0 5 10 km

# Au

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0054 - 0.0064
- + > 0.0045 - 0.0054
- > 0.0027 - 0.0045
- > 0.0019 - 0.0027
- 0.0000 - 0.0019



0 5 10 km

**B**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 1.90 - 2.88
- + > 1.32 - 1.90
- > 0.789 - 1.32
- > 0.639 - 0.789
- 0.475 - 0.639



0 5 10 km

**Ba**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 12.0 - 19.3
- + > 6.27 - 12.0
- > 2.51 - 6.27
- > 1.53 - 2.51
- 0.730 - 1.53



0 5 10 km

**Be**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0107 - 0.0143
- + > 0.0076 - 0.0107
- > 0.0042 - 0.0076
- > 0.0024 - 0.0042
- 0.0000 - 0.0024



0 5 10 km

**Bi**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0016 - 0.0021
- + > 0.0013 - 0.0016
- > 0.0006 - 0.0013
- > 0.0003 - 0.0006
- 0.0000 - 0.0003



0 5 10 km

**Br**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 19.3 - 31.0
- ✚ > 12.1 - 19.3
- > 6.10 - 12.1
- > 4.94 - 6.10
- 4.00 - 4.94



0 5 10 km

**Ca**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 12387 - 30433
- ✚ > 7854 - 12387
- > 1980 - 7854
- > 554 - 1980
- 255 - 554



0 5 10 km

**Cd**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0047 - 0.0071
- ✚ > 0.0037 - 0.0047
- > 0.0017 - 0.0037
- > 0.0009 - 0.0017
- 0.0001 - 0.0009



0 5 10 km

**Ce**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.435 - 1.50
- ✚ > 0.208 - 0.435
- > 0.0280 - 0.208
- > 0.0140 - 0.0280
- 0.0080 - 0.0140



0 5 10 km

**Cl**

Surface Water

by IC

[ $\mu\text{g/L}$ ]

■ &gt; 2526 - 4880

+ &gt; 1740 - 2526

· &gt; 771 - 1740

○ &gt; 559 - 771

○ 247 - 559



0 5 10 km

**Co**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

■ &gt; 0.0548 - 0.113

+ &gt; 0.0340 - 0.0548

· &gt; 0.0180 - 0.0340

○ &gt; 0.0140 - 0.0180

○ 0.0070 - 0.0140



0 5 10 km

**Cr**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

■ &gt; 0.310 - 0.695

+ &gt; 0.219 - 0.310

· &gt; 0.0848 - 0.219

○ &gt; 0.0624 - 0.0848

○ 0.0130 - 0.0624



0 5 10 km

**Cs**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

■ &gt; 0.0506 - 0.124

+ &gt; 0.0300 - 0.0506

· &gt; 0.0108 - 0.0300

○ &gt; 0.0060 - 0.0108

○ 0.0010 - 0.0060



0 5 10 km

# Cu

Surface Water  
by ICP-MS

	[ $\mu\text{g/L}$ ]
■	> 0.871 - 2.06
+	> 0.626 - 0.871
·	> 0.334 - 0.626
○	> 0.199 - 0.334
○	0.116 - 0.199



0 5 10 km

# Dy

Surface Water  
by ICP-MS

	[ $\mu\text{g/L}$ ]
■	> 0.0412 - 0.107
+	> 0.0242 - 0.0412
·	> 0.0081 - 0.0242
○	> 0.0044 - 0.0081
○	0.0024 - 0.0044



0 5 10 km

# Er

Surface Water  
by ICP-MS

	[ $\mu\text{g/L}$ ]
■	> 0.0240 - 0.0538
+	> 0.0143 - 0.0240
·	> 0.0050 - 0.0143
○	> 0.0031 - 0.0050
○	0.0016 - 0.0031



0 5 10 km

# Eu

Surface Water  
by ICP-MS

	[ $\mu\text{g/L}$ ]
■	> 0.0122 - 0.0382
+	> 0.0071 - 0.0122
·	> 0.0028 - 0.0071
○	> 0.0015 - 0.0028
○	0.0008 - 0.0015



0 5 10 km

**F**

## Surface Water

by IC

[ $\mu\text{g/L}$ ]

- > 90.1 - 436
- + > 35.7 - 90.1
- > 4.55 - 35.7
- > 2.30 - 4.55
- 1.00 - 2.30



0 5 10 km

**Fe**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0085 - 0.0199
- + > 0.0058 - 0.0085
- > 0.0033 - 0.0058
- > 0.0020 - 0.0033
- 0.0004 - 0.0020



0 5 10 km

**Ga**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0516 - 0.159
- + > 0.0320 - 0.0516
- > 0.0114 - 0.0320
- > 0.0066 - 0.0114
- 0.0032 - 0.0066



0 5 10 km

**Gd**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0490 - 0.0783
- + > 0.0363 - 0.0490
- > 0.0200 - 0.0363
- > 0.0127 - 0.0200
- 0.0043 - 0.0127



0 5 10 km

# Ge

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0053 - 0.0099
- + > 0.0035 - 0.0053
- > 0.0017 - 0.0035
- > 0.0011 - 0.0017
- 0.0001 - 0.0011



0 5 10 km

# Hf

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0155 - 0.0334
- + > 0.0119 - 0.0155
- > 0.0074 - 0.0119
- > 0.0045 - 0.0074
- 0.0001 - 0.0045



0 5 10 km

# Hg

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0078 - 0.0181
- + > 0.0046 - 0.0078
- > 0.0016 - 0.0046
- > 0.0010 - 0.0016
- 0.0003 - 0.0010



0 5 10 km

# Ho

Surface Water

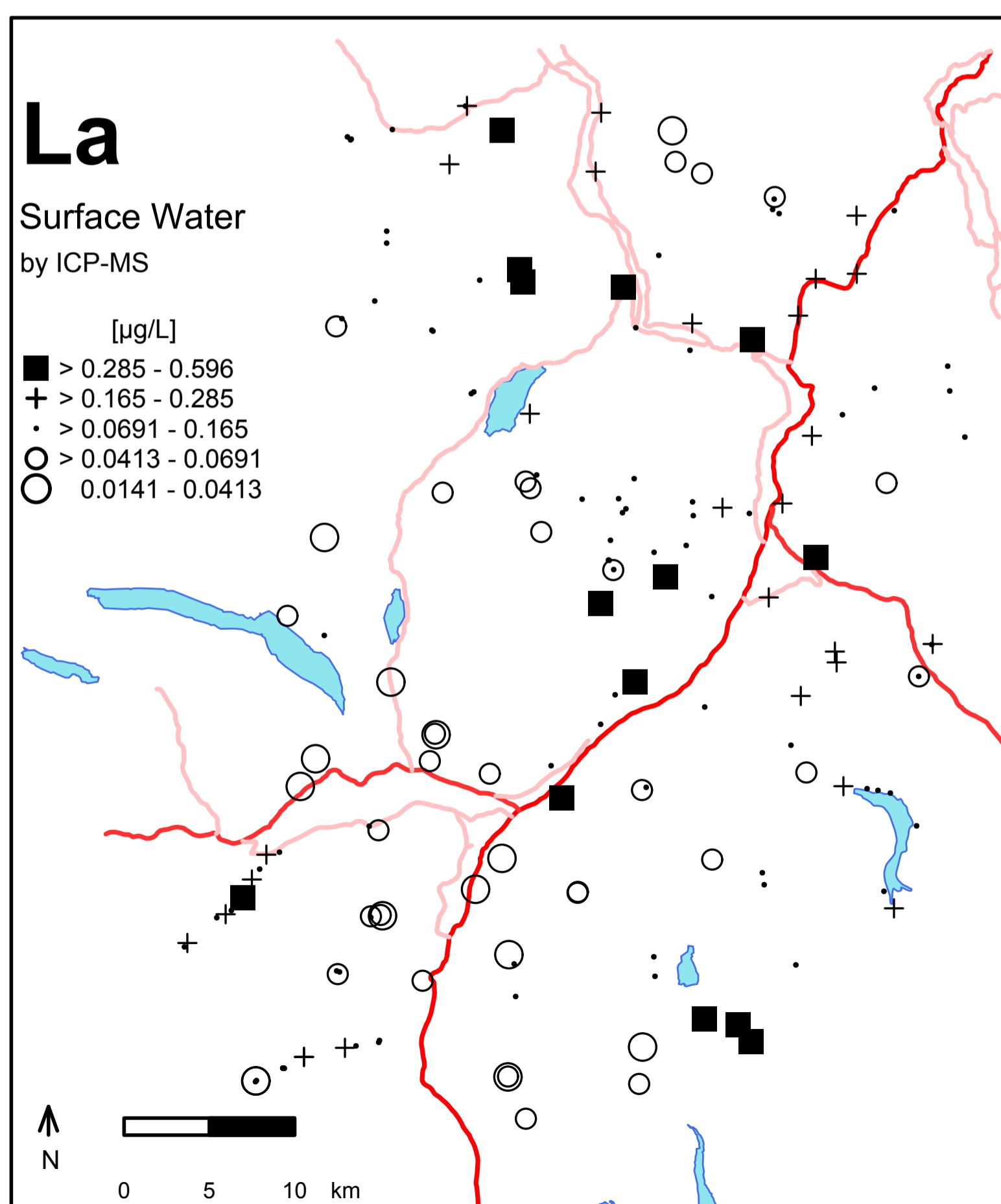
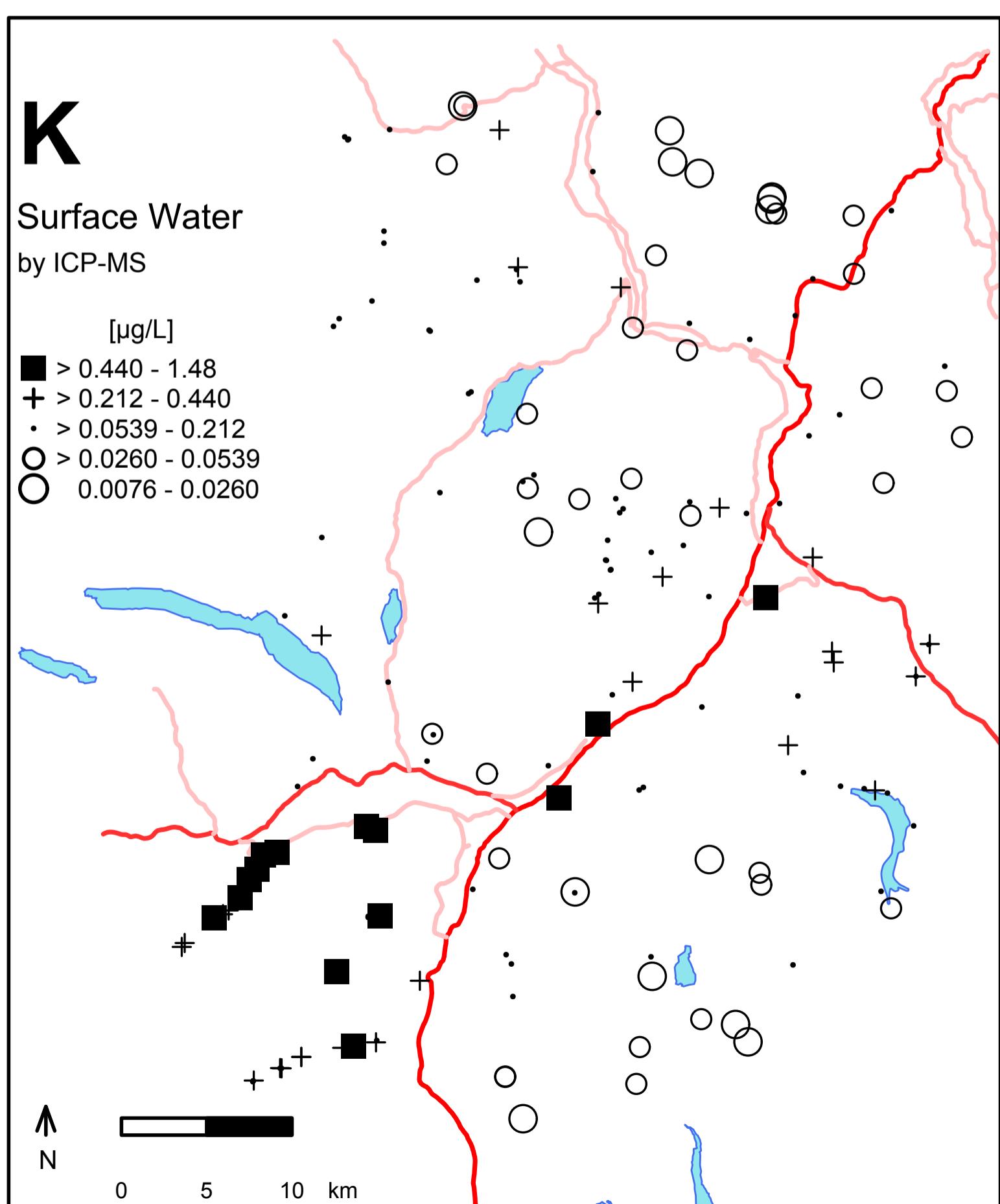
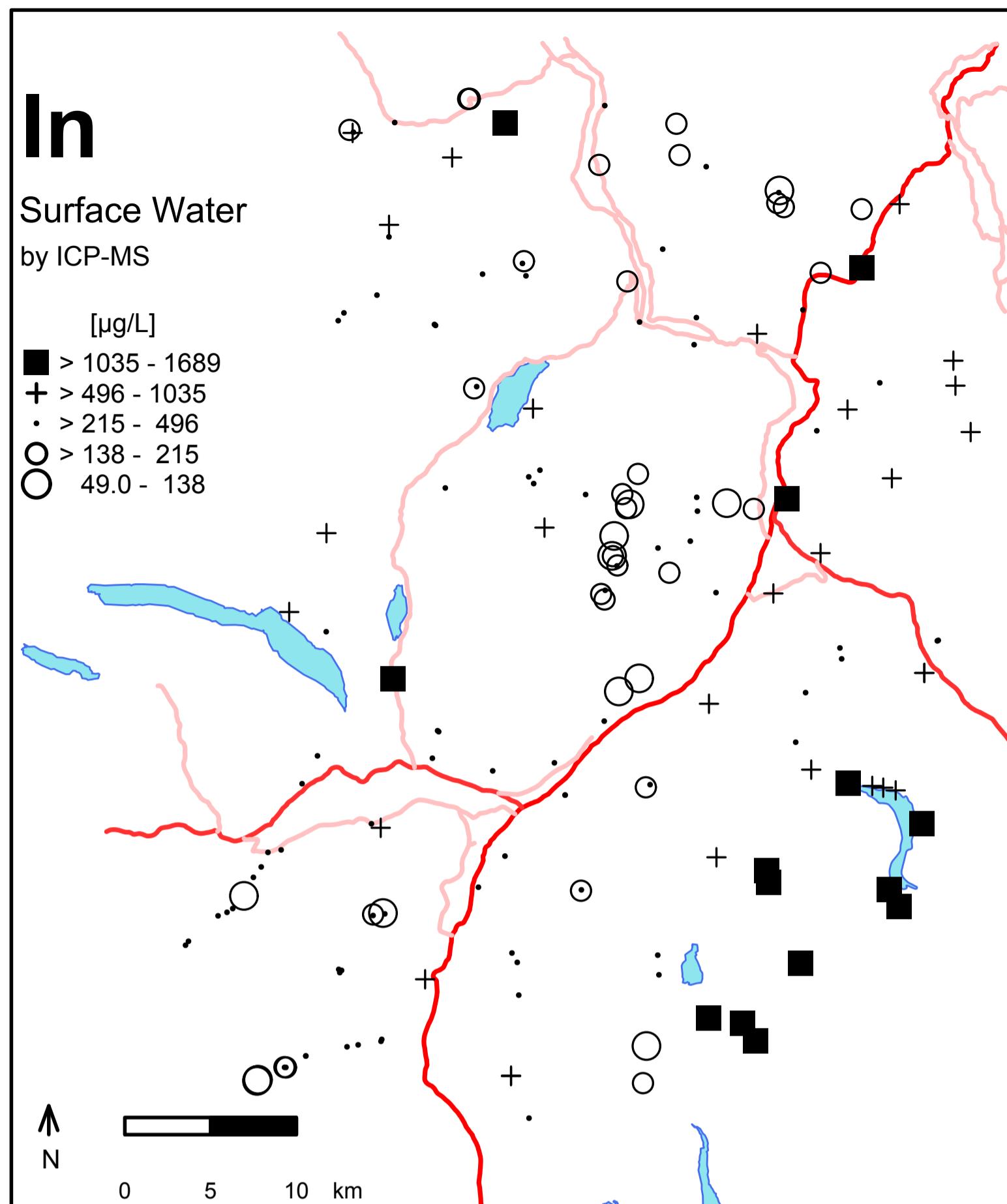
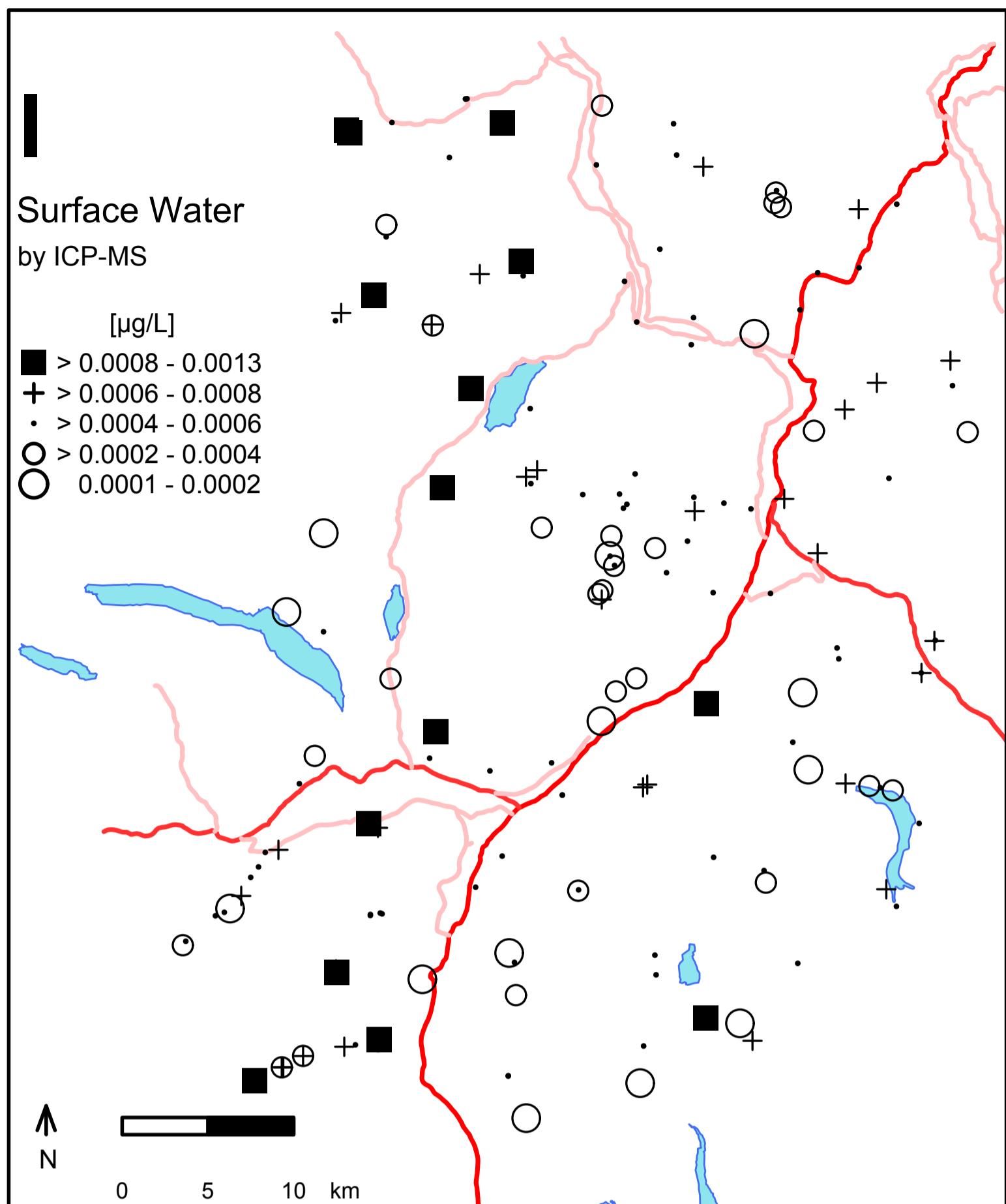
by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.964 - 1.40
- + > 0.700 - 0.964
- > 0.400 - 0.700
- > 0.300 - 0.400
- 0.200 - 0.300



0 5 10 km



**Li**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0038 - 0.0074
- ✚ > 0.0026 - 0.0038
- > 0.0012 - 0.0026
- > 0.0007 - 0.0012
- 0.0004 - 0.0007



0 5 10 km

**Lu**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 938 - 2341
- ✚ > 617 - 938
- > 287 - 617
- > 164 - 287
- 52.0 - 164



0 5 10 km

**Mg**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 4.13 - 8.57
- ✚ > 1.36 - 4.13
- > 0.190 - 1.36
- > 0.0936 - 0.190
- 0.0400 - 0.0936



0 5 10 km

**Mn**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.189 - 0.878
- ✚ > 0.104 - 0.189
- > 0.0270 - 0.104
- > 0.0095 - 0.0270
- 0.0013 - 0.0095



0 5 10 km

# Mo

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 2097 - 2983
- + > 1504 - 2097
- > 900 - 1504
- > 688 - 900
- 327 - 688



0 5 10 km

# Na

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0057 - 0.0100
- + > 0.0037 - 0.0057
- > 0.0014 - 0.0037
- > 0.0006 - 0.0014
- 0.0000 - 0.0006



0 5 10 km

# Nb

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.366 - 1.21
- + > 0.196 - 0.366
- > 0.0562 - 0.196
- > 0.0274 - 0.0562
- 0.0080 - 0.0274



0 5 10 km

# Nd

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.753 - 2.54
- + > 0.498 - 0.753
- > 0.124 - 0.498
- > 0.0667 - 0.124
- 0.0220 - 0.0667



0 5 10 km

# Ni

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0459 - 0.0877
- + > 0.0296 - 0.0459
- > 0.0103 - 0.0296
- > 0.0047 - 0.0103
- 0.0001 - 0.0047



0 5 10 km

# Pb

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.103 - 0.342
- + > 0.0520 - 0.103
- > 0.0140 - 0.0520
- > 0.0070 - 0.0140
- 0.0020 - 0.0070



0 5 10 km

# Pr

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 3.72 - 6.05
- + > 1.63 - 3.72
- > 0.677 - 1.63
- > 0.474 - 0.677
- 0.184 - 0.474



0 5 10 km

# Rb

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0145 - 0.0718
- + > 0.0093 - 0.0145
- > 0.0059 - 0.0093
- > 0.0048 - 0.0059
- 0.0016 - 0.0048



0 5 10 km

**Sb**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0505 - 0.0812
- + > 0.0370 - 0.0505
- > 0.0206 - 0.0370
- > 0.0134 - 0.0206
- 0.0003 - 0.0134



0 5 10 km

**Sc**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0630 - 0.148
- + > 0.0496 - 0.0630
- > 0.0310 - 0.0496
- > 0.0224 - 0.0310
- 0.0102 - 0.0224



0 5 10 km

**Se**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0648 - 0.219
- + > 0.0356 - 0.0648
- > 0.0114 - 0.0356
- > 0.0063 - 0.0114
- 0.0023 - 0.0063



0 5 10 km

**Sm**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0120 - 0.0178
- + > 0.0077 - 0.0120
- > 0.0032 - 0.0077
- > 0.0018 - 0.0032
- 0.0001 - 0.0018



0 5 10 km

# Sn

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 32.1 - 70.6
- ✚ > 21.0 - 32.1
- > 8.05 - 21.0
- > 4.37 - 8.05
- 1.70 - 4.37



0 5 10 km

# Sr

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0027 - 0.0050
- ✚ > 0.0020 - 0.0027
- > 0.0011 - 0.0020
- > 0.0006 - 0.0011
- 0.0001 - 0.0006



0 5 10 km

# Ta

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0075 - 0.0221
- ✚ > 0.0043 - 0.0075
- > 0.0016 - 0.0043
- > 0.0010 - 0.0016
- 0.0006 - 0.0010



0 5 10 km

# Tb

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0237 - 0.0311
- ✚ > 0.0189 - 0.0237
- > 0.0098 - 0.0189
- > 0.0066 - 0.0098
- 0.0001 - 0.0066



0 5 10 km

# Te

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0370 - 0.118
- + > 0.0235 - 0.0370
- > 0.0060 - 0.0235
- > 0.0029 - 0.0060
- 0.0010 - 0.0029



0 5 10 km

# Th

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.555 - 1.52
- + > 0.282 - 0.555
- > 0.0671 - 0.282
- > 0.0001 - 0.0671
- 0.0001 - 0.0001



0 5 10 km

# Ti

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0218 - 0.0292
- + > 0.0160 - 0.0218
- > 0.0083 - 0.0160
- > 0.0060 - 0.0083
- 0.0024 - 0.0060



0 5 10 km

# Tl

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0036 - 0.0065
- + > 0.0023 - 0.0036
- > 0.0010 - 0.0023
- > 0.0006 - 0.0010
- 0.0004 - 0.0006



0 5 10 km

**Tm**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.138 - 0.694
- + > 0.0593 - 0.138
- > 0.0220 - 0.0593
- > 0.0145 - 0.0220
- 0.0066 - 0.0145



0 5 10 km

**U**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.158 - 0.304
- + > 0.117 - 0.158
- > 0.0676 - 0.117
- > 0.0457 - 0.0676
- 0.0331 - 0.0457



0 5 10 km

**V**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0247 - 0.0512
- + > 0.0158 - 0.0247
- > 0.0072 - 0.0158
- > 0.0029 - 0.0072
- 0.0001 - 0.0029



0 5 10 km

**W**

Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.231 - 0.552
- + > 0.138 - 0.231
- > 0.0436 - 0.138
- > 0.0226 - 0.0436
- 0.0124 - 0.0226



0 5 10 km

**Y**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0227 - 0.0466
- + > 0.0146 - 0.0227
- > 0.0056 - 0.0146
- > 0.0028 - 0.0056
- 0.0011 - 0.0028



0 5 10 km

**Yb**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 4.12 - 16.6
- + > 2.80 - 4.12
- > 1.32 - 2.80
- > 0.790 - 1.32
- 0.570 - 0.790



0 5 10 km

**Zn**

## Surface Water

by ICP-MS

[ $\mu\text{g/L}$ ]

- > 0.0723 - 0.147
- + > 0.0432 - 0.0723
- > 0.0122 - 0.0432
- > 0.0061 - 0.0122
- 0.0020 - 0.0061



0 5 10 km

**NO<sub>3</sub>**

## Surface Water

by IC

[ $\mu\text{g/L}$ ]

- > 642 - 3380
- + > 423 - 642
- > 125 - 423
- > 125 - 125
- 125 - 125



0 5 10 km

# **SO<sub>4</sub>**

Surface Water

by IC

[ $\mu\text{g/L}$ ]

■ > 3798 - 23200

+ > 1732 - 3798

· > 717 - 1732

○ > 406 - 717

○ 100 - 406



N

0 5 10 km

