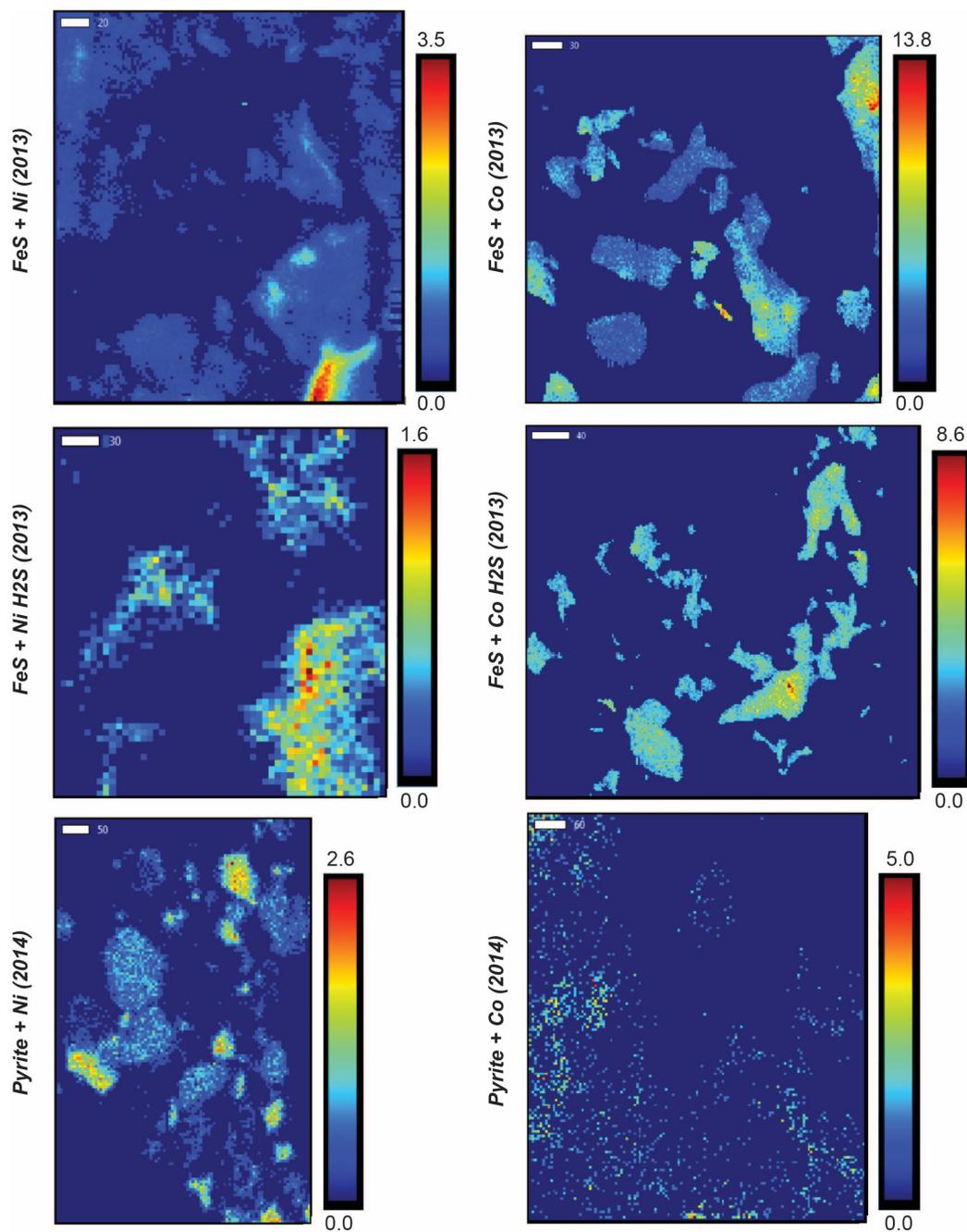


**Supplementary Figure 1.** Semi-quantitative XRF maps of Ni and Co in FeS<sub>m</sub> or pyrite. Statistics are presented in Table 3. All units are in mg element per g mineral, assumed to be FeS or FeS<sub>2</sub> for absorption length calculations.



**Supplementary Figure 2.** Distribution of trace elements in  $\text{FeS}_m$  and pyrite determined from XRF mapping at 8 keV. In all maps, the trace element (Co or Ni) appears blue, while the iron-rich regions are green, and sulfur-rich regions are red. A.  $\text{FeS}_m$  + Co, B. Pyrite + Co, C.  $\text{FeS}_m$  + Ni, D. Pyrite + Ni.

