

Table 1. Composition of precipitation at Bondville (July 1994 - Oct 1995) grouped by cluster

Cluster	SW	W	NE	SE	SE - R	SW - R
Volume Weighted Concentration ($\mu\text{g liter}^{-1}$)						
Arsenic	0.153	0.100	0.207	0.137	0.144	0.164
Cadmium	0.082	0.043	0.057	0.044	0.047	0.041
Chromium	0.120	0.057	0.144	0.024	0.090	0.091
Copper	0.679	0.519	0.838	0.347	0.509	0.565
Molybdenum	0.019	0.014	0.053	0.020	0.020	0.022
Nickel	0.206	0.114	0.252	0.108	0.188	0.192
Lead	1.718	0.635	1.060	0.445	0.690	0.636
Sulfur	1225	603	977	837	1012	735
Antimony	0.063	0.078	0.101	0.058	0.060	0.049
Selenium	0.271	0.188	0.285	0.193	0.240	0.149
Vanadium	0.337	0.172	0.353	0.240	0.361	0.457
Zinc	3.57	1.95	3.72	1.79	1.95	1.47
Volume Weighted Pb Isotope Ratios						
$^{207}\text{Pb}/^{206}\text{Pb}$	0.7921	0.8189	0.8209	0.8253	0.8273	0.8253
$^{208}\text{Pb}/^{206}\text{Pb}$	1.973	2.019	2.020	2.034	2.037	2.036
$^{208}\text{Pb}/^{207}\text{Pb}$	2.490	2.466	2.462	2.465	2.462	2.466
Precipitation(ml per event)	192	196	205	309	307	220
# of events	15	9	14	9	9	8

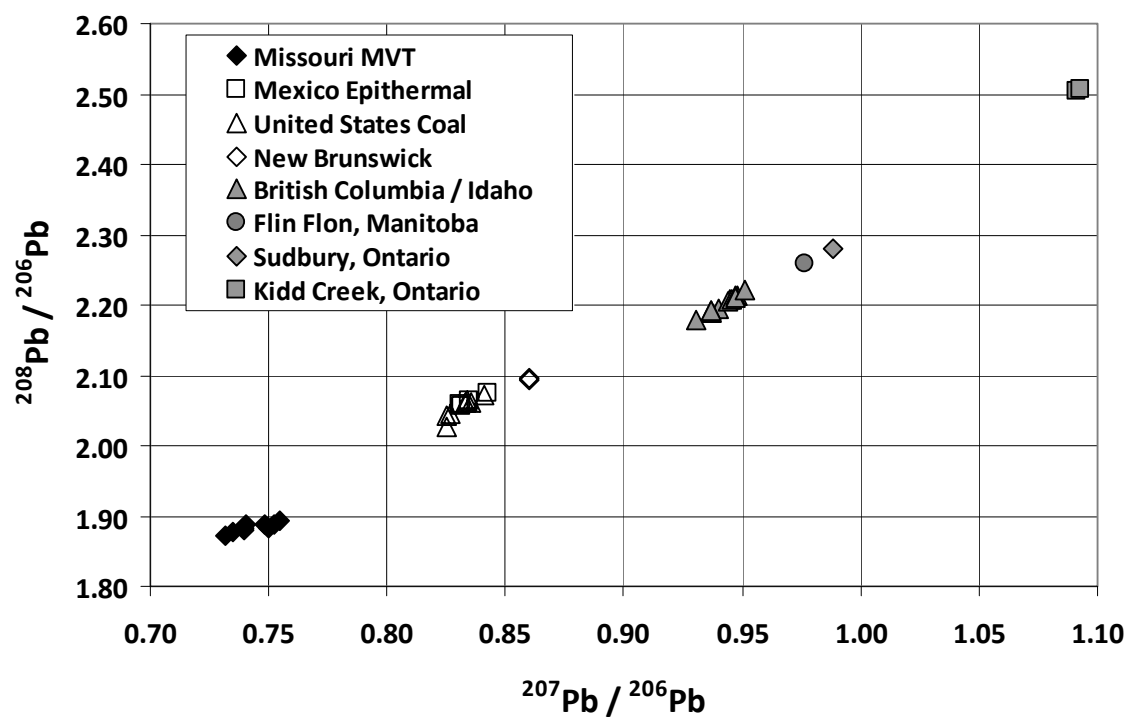
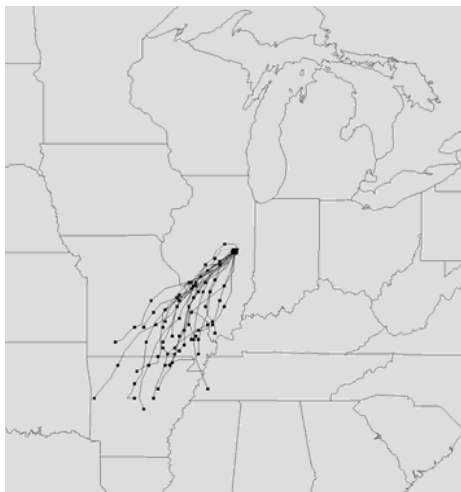
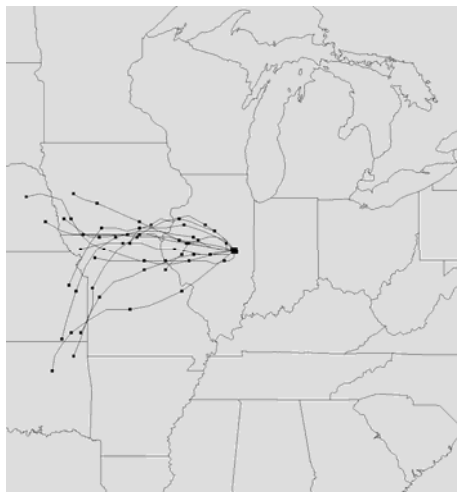


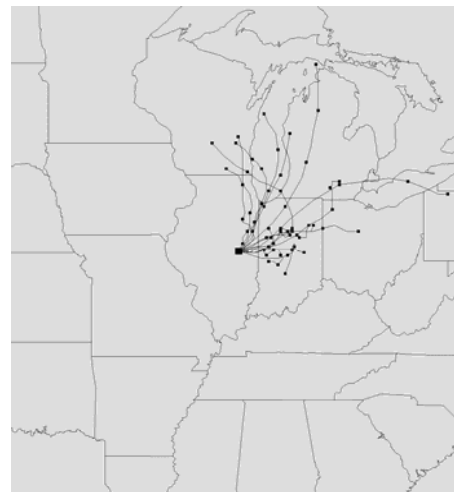
Fig. 1.



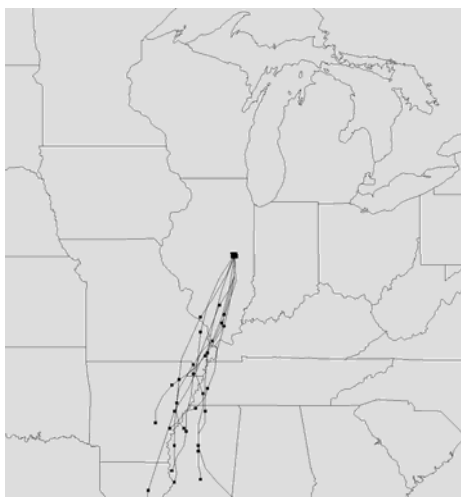
(a) Southwest flow cluster (SW)



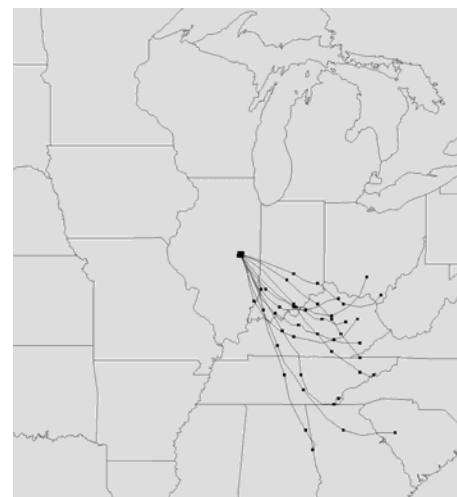
(b) West flow cluster (W)



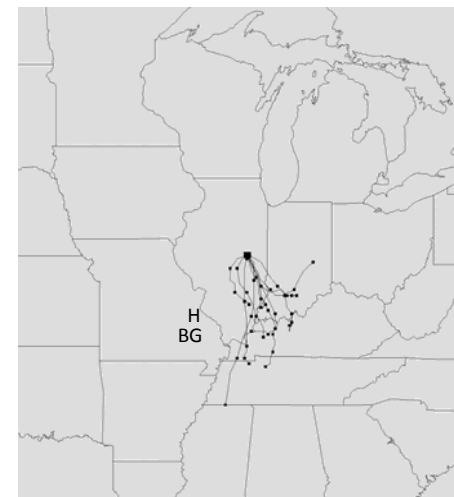
(c) Northeast flow cluster (NE)



(d) Southwest rapid flow cluster (SW-R)



(e) Southeast rapid flow cluster (SE-R)



(f) Southeast flow cluster (SE)

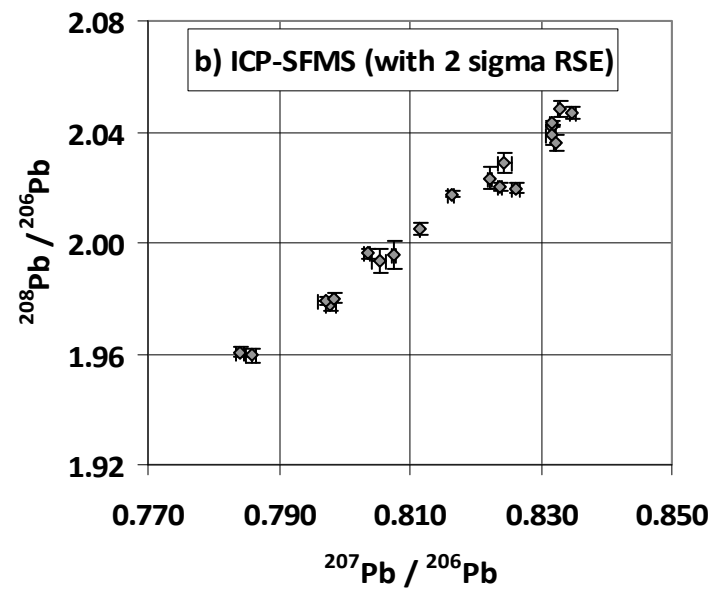
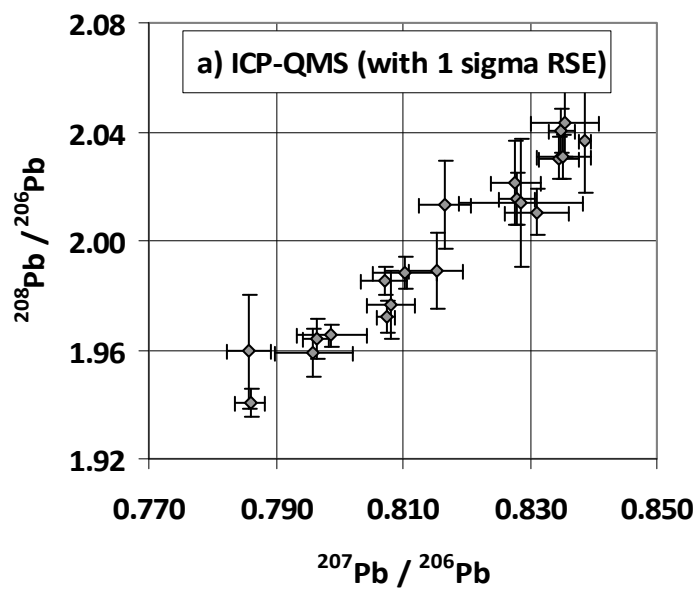
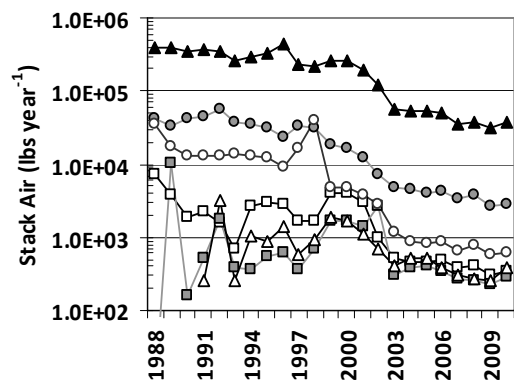
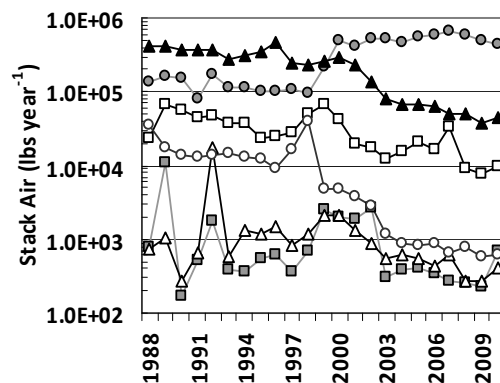


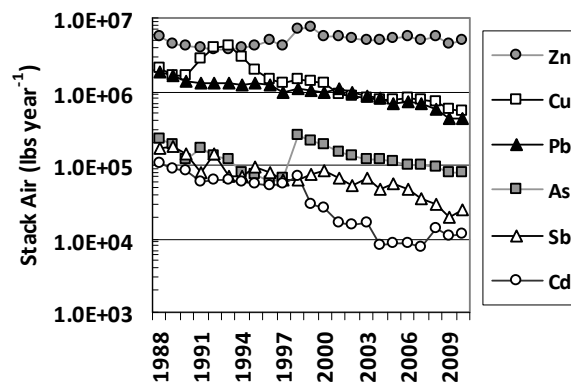
Fig. 3.



a) southeast Missouri smelters



b) all Missouri TRI sources



c) all United States TRI sources

Fig. 4.

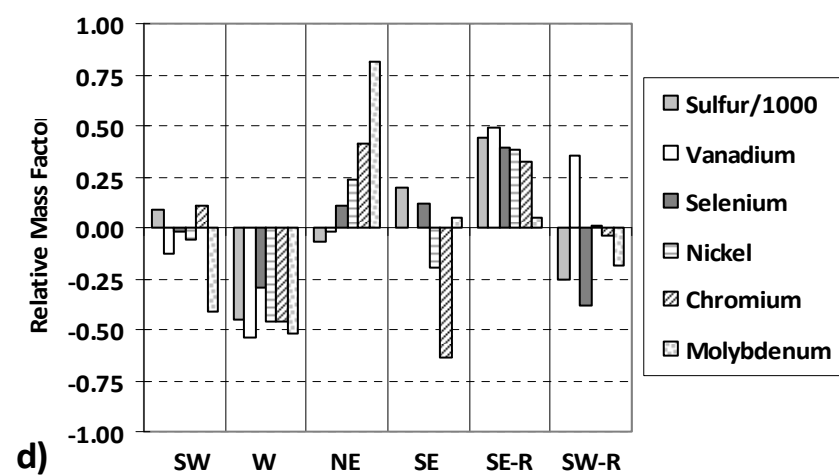
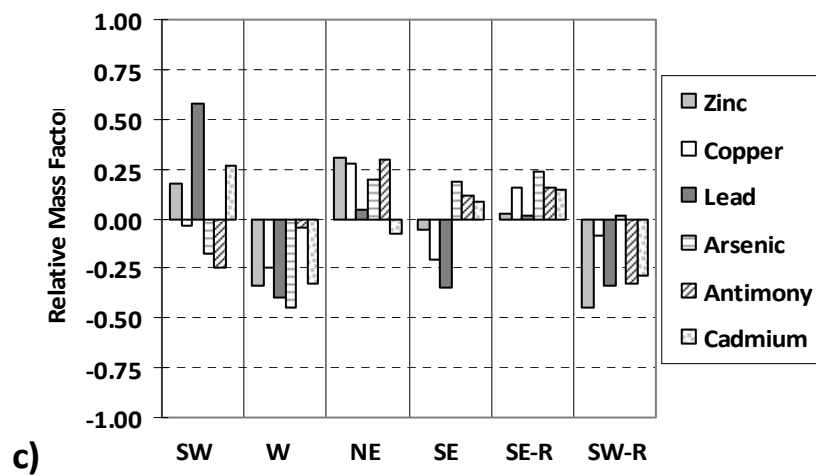
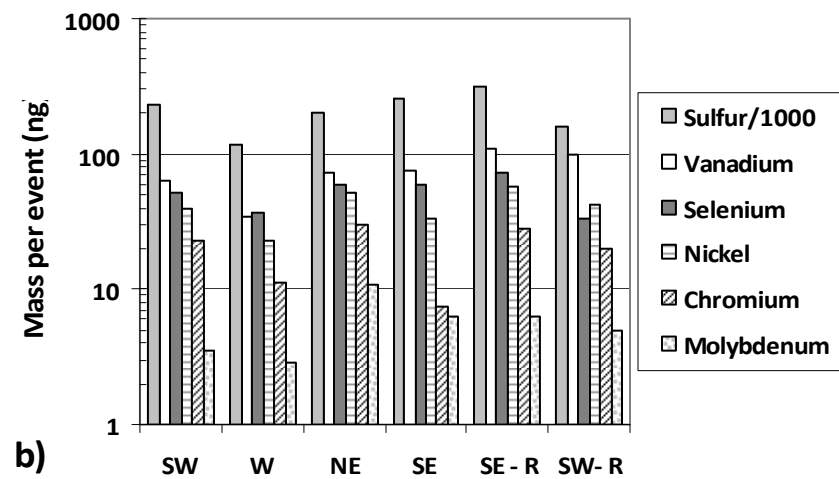
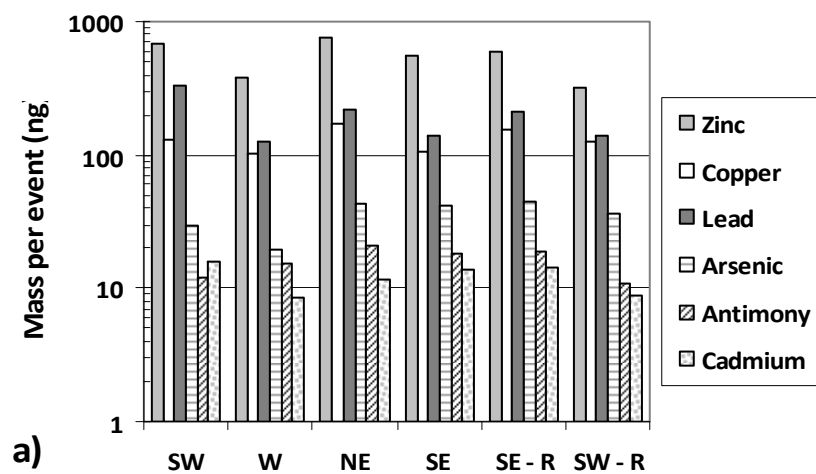


Fig. 5.

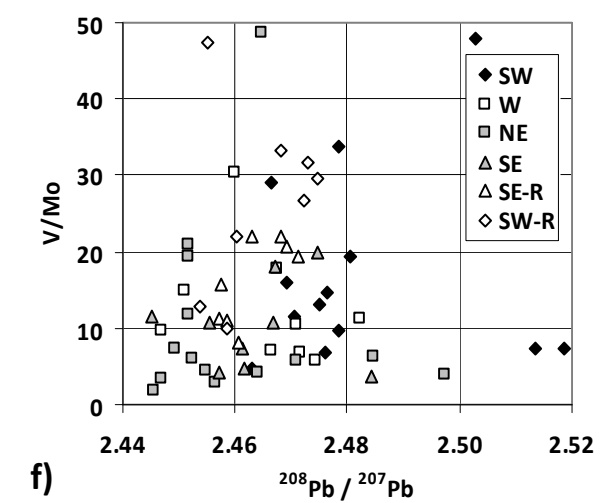
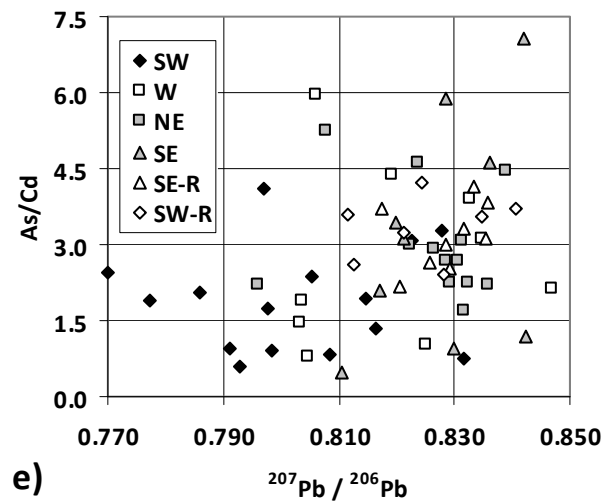
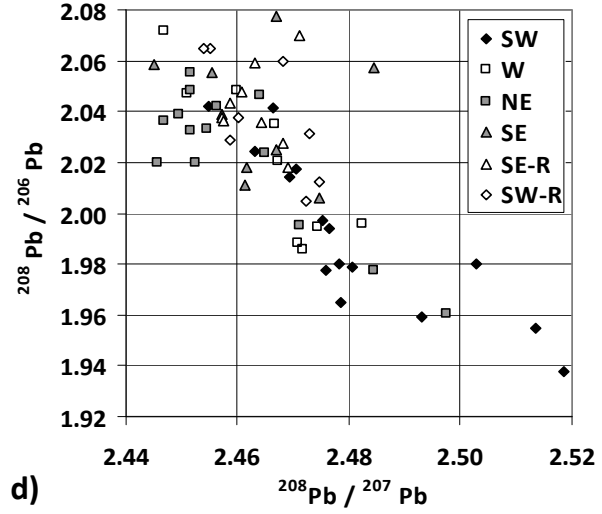
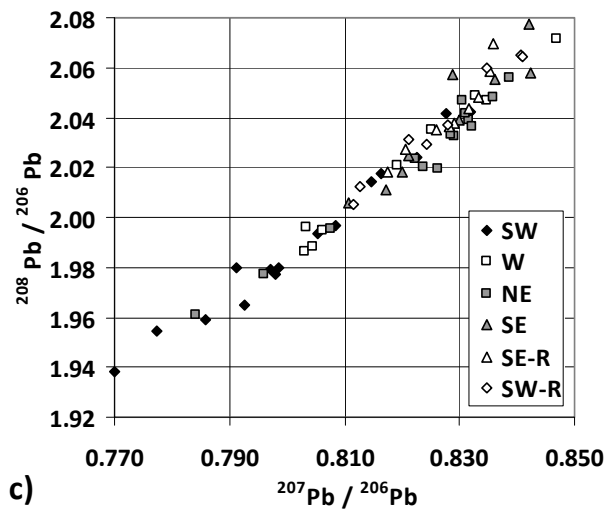
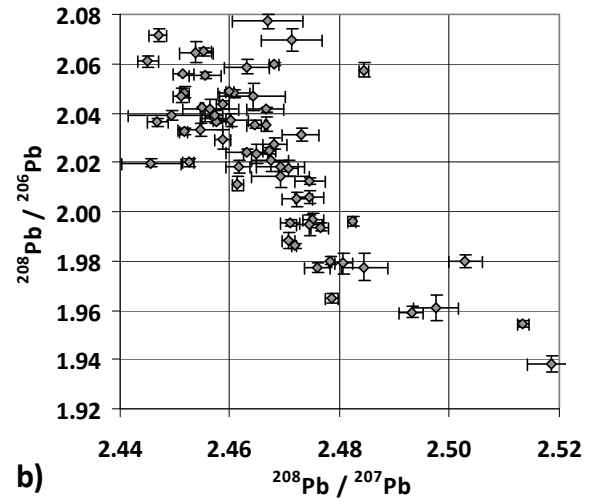
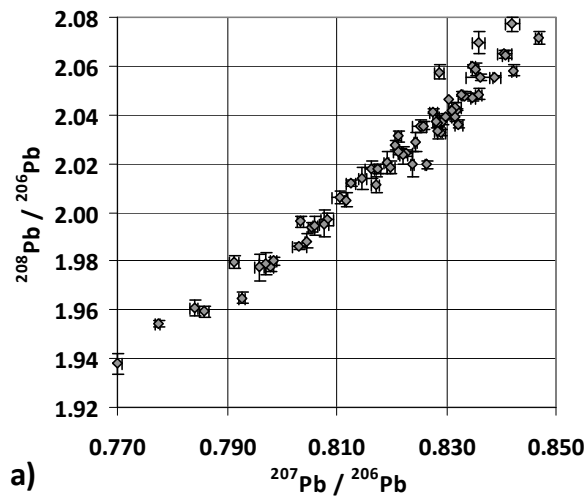


Fig. 6.

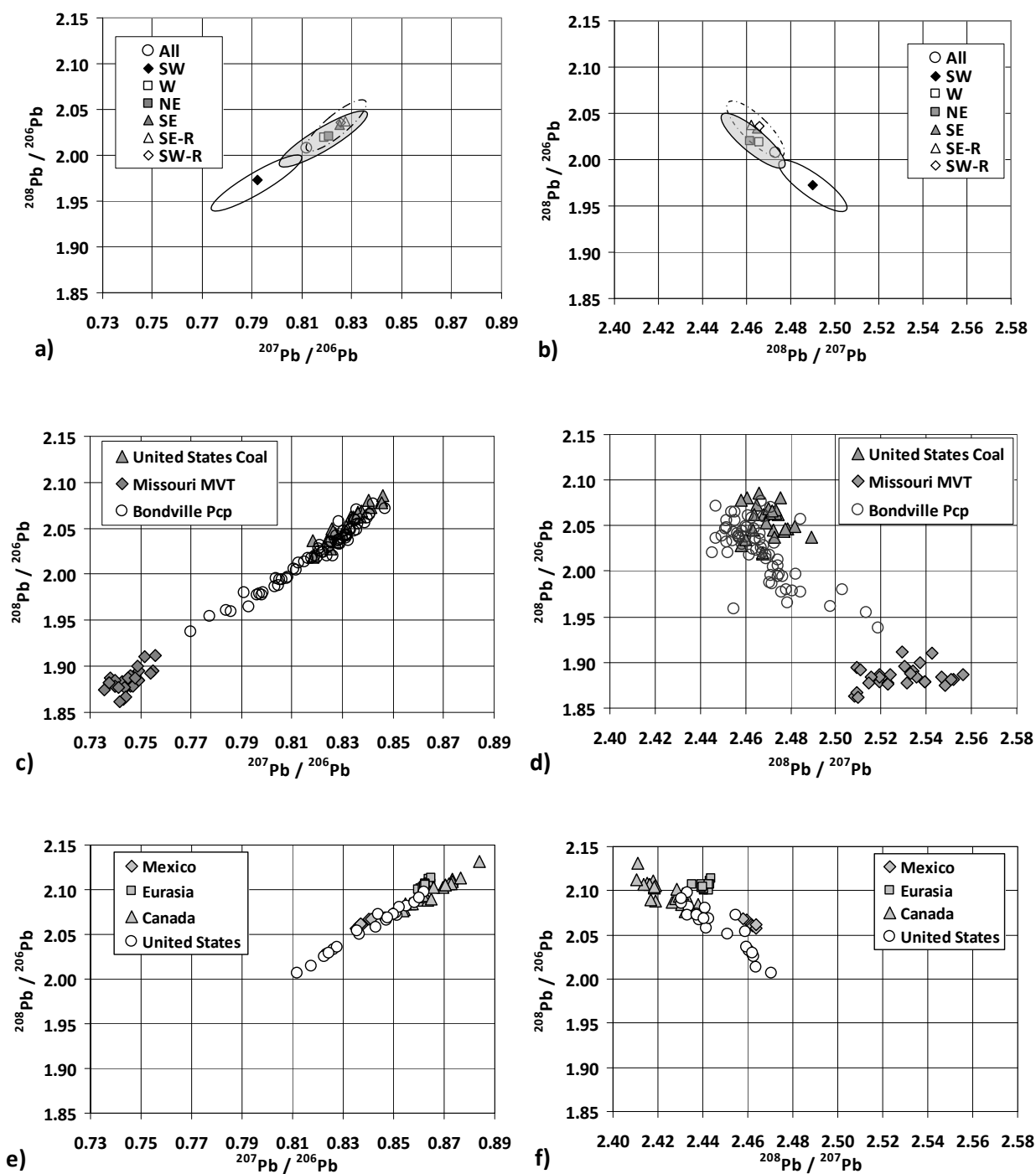


Fig. 7.