

Pb-isotope microanalysis of fluid inclusions, with applications to the Miocene Au-Cu ore district of the Apuseni Mountains, Romania

Samples and dates

Dataset

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Sample number	Magmatic center	Location	Lithology	Coord. N	Coord. E	Age Ma	1SE on age	Method	Sample dated
ER-362	Baia de Aries	Dealul Poenita, south of hill	andesite	46.3242	23.2867	10.99	0.44	K-Ar ₂	same
ER-46	Baia de Aries	Dealul Poenita, north of hill	andesite	46.3406	23.2869	10.99	0.44	K-Ar ₂	ER-362
ER-55	Baia de Aries	Valea Ambru pipes, right arm	andesite	46.355*	23.2995*				
ER-6908	Baia de Aries	Dealul Bulz, N of Baia de Aries	andesite	46.3898	23.3120	10.1	0.4	K-Ar ₅	same
ER-804	Baia de Aries	Valea Ambru pipes, left arm	dacite						
GM-04-CH-42	Baia de Aries	Geamana west	andesite	46.2861	23.2409	7.8	0.3	K-Ar ₅	ER-785
GM-04-CH-42E	Baia de Aries	Geamana west	basalt enclave	46.2861	23.2409	7.8	0.3	K-Ar ₅	ER-785
GM-04-CH-43	Baia de Aries	Geamana east	andesite	46.2882	23.2446				
SG-04-CH-41	Baia de Aries	Surligata	andesite	46.3154	23.2452	7.6	0.9	K-Ar ₅	ER-799
BZ-04-CH-10	Barza	Ruda-Brad	dacite	46.0927	22.8297				
BZ-04-CH-11	Barza	Ruda-Brad	andesite	46.0953	22.8254				
BZ-04-CH-12	Barza	Ruda-Brad	andesite	46.0863	22.8067				
BZ-04-CH-21	Barza	Gurechiu	andesite	46.1128	22.9534				
VM-03-ER-110	Barza	Ciresata intrusion	andesite			10.95	0.06	U-Pb ₃	same
VM-03-KK-06	Barza	Valea Morii porphyry intrusion I (open pit)	andesite	46.0839*	22.8636*	11.41	0.03	U-Pb ₃	same
VM-03-KK-16	Barza	dike (open pit)	trachyandesite	46.0844*	22.8642*	11.30	0.05	U-Pb ₃	same
VM-03-KK-35	Barza	Arsului intrusion (Crisior quarry)	andesite	46.1142*	22.8678*	11.87	0.12	U-Pb ₃	same
VM-03-KK-47	Barza	Arsului xenolith (Crisior quarry)	andesite	46.1144*	22.8675*				
VM-03-KK-71	Barza	Valea Rea ("Arisitsa intrusion")	dacite	46.0569*	22.9686*				
VM-03-KK-75	Barza	Barza fresh volcanic (Valea Arsului)	dacite	46.1061*	22.8692*	12.44	0.09	U-Pb ₃	same
VM-04-CH-07	Barza	Valea Morii-Crisior open pit	andesite	46.1138	22.8671	11.87	0.12	U-Pb ₃	VM-03-KK-35
VM-04-CH-07B	Barza	Valea Morii-Crisior open pit	andesite	46.1138	22.8671	11.87	0.12	U-Pb ₃	VM-03-KK-35
VM-04-CH-07E1	Barza	Valea Morii-Crisior open pit	basaltic enclave	46.1138	22.8671	11.87	0.12	U-Pb ₃	VM-03-KK-35
VM-04-CH-07E2	Barza	Valea Morii-Crisior open pit	basaltic enclave	46.1138	22.8671	11.87	0.12	U-Pb ₃	VM-03-KK-35
VM-04-CH-08	Barza	Valea Morii open pit	andesite	46.0838	22.8640				
VM-04-CH-09	Barza	Valea Morii open pit above "refrigerator"	dacite clast from volc-clastic sed. andesite clast from	46.1046	22.8689	12.44	0.09	U-Pb ₃	VM-03-KK-75
BC-04-CH-26	Bucium	Bucium-Poieni valley	volc-clastic breccia	46.2453	23.2174				
ER-6913	Bucium	Bucium south	andesite	46.2098	23.1770	14.7	0.8	K-Ar ₆	same
TN-04-CH-27	Bucium	Citera Hill	andesite	46.2340	23.2081	14.6	1.6	K-Ar ₁	ER-2228
TN-04-CH-28	Bucium	Bucium Valley stream bed	dacite (Contu)	46.2593	23.1861	12.7	1.0	K-Ar ₆	ER-4383
TN-04-CH-25	Bucium	Bucium Tarnita mine dump	andesite	46.2323	23.1840				
CT-04-CH-14	Cetras	Cetras Valley type locale	andesite	46.0349	22.9648	11.7	0.5	K-Ar ₅	ER-767
ZM-04-CH-13	Cetras	Zambrita hill	trachyandesite	46.0448	22.9644	10.5	0.4	K-Ar ₁	ER-776
DT-04-CH-36	Detunata	Detunata	basaltic andesite (quartz xenocrysts removed)	46.2785	23.1989	7.4	0.3	K-Ar ₁	ER-788
DT-04-CH-36B	Detunata	Detunata	basaltic andesite	46.2785	23.1989	7.4	0.3	K-Ar ₁	ER-788
DT-04-CH-37	Detunata	Detunata	basaltic andesite	46.2681	23.2039	7.4	0.3	K-Ar ₁	ER-788
DV-03-IP-01	Deva	Nocet spring (Colti Coziei)	andesite	45.8678*	22.8584*	12.60	0.49	K-Ar ₂	ER-400
DV-03-IP-02	Deva	Deva quarry	andesite	45.8600*	22.8885*				
DV-03-IP-02ANC	Deva	Deva quarry	basaltic enclave	45.8600*	22.8885*				
DV-03-IP-04	Deva	Serhediu (La Colt)	andesite	45.8933*	22.8824*				
DV-03-IP-13	Deva	Cetate Hill	andesite	45.8887*	22.8971*				
DV-04-CH-01	Deva	Nocet Hill (Coltii Coziei)	andesite (Nocet type)	45.8669	22.8546	12.60	0.49	K-Ar ₂	ER-400
DV-04-CH-02	Deva	Nocet Hill	andesite (Nocet type)	45.8679	22.8532				
DV-04-CH-03	Deva	Almasu Sec quarry	andesite	45.8570	22.8853				
DV-04-CH-04	Deva	Cemetary quarry	(Cetate type) basaltic andesite	45.8598	22.8881	11.85	0.48	K-Ar ₂	ER-392
DV-04-CH-04E	Deva	Cemetary quarry	enclave andesite	45.8598	22.8881	11.85	0.48	K-Ar ₂	ER-392
DV-04-CH-06	Deva	Cetate Hill	(Cetate type) andesite	45.8894	22.8974	11.85	0.48	K-Ar ₂	ER-392
DVP-03-IP-30	Deva	Bailor intrusion	andesite	mine level-520					
RM-03-SW-29	R. Montana	Corna Valley	dacite clast from volc-clastic breccia	46.2875*	174.8788*	13.13	0.54	U-Pb ₄	same
RM-04-CH-31	R. Montana	Corna Valley	dacite clast from volc-clastic breccia	46.2888	23.1220	13.13	0.54	U-Pb ₄	RM-03-SW-29
RM-04-CH-32	R. Montana	Corna Valley	volc-clastic breccia	46.2879	23.1208				
RM-04-CH-35	R. Montana	Taul din Brazi	dacite	46.3023	23.1361	13.5	1.1	K-Ar ₁	ER-795
RP-02-RR-41	R. Poieni	open pit, level 1	andesite	46.3142*	174.8316*				
RP-03-SW-66	R. Poieni	Rotunda							
RP-04-CH-29	R. Poieni	Ghergheleu hill	andesite	46.3173*	23.1443*	9.3	0.5	K-Ar ₁	ER-84
RP-04-CH-30	R. Poieni	east side of Poieni pit	andesite	46.3197	23.1796				
RP-04-CH-30	R. Poieni	east side of Poieni pit	andesite	46.3162	23.1833	9.42	0.14	U-Pb ₄	same
RP-04-CH-33	R. Poieni	spring quarry just inside pit entrance	andesite (Rotunda)	46.3096	23.1596	9.3	0.5	K-Ar ₁	ER-84
RP-04-CH-34	R. Poieni	Poeni-Montana road, W side Corna Valley	andesite (Rotunda)	46.3021	23.1494	9.3	0.5	K-Ar ₁	ER-84
RP-04-CH-38	R. Poieni	Rosia Poieni	andesite	46.3035	23.1727				
RP-04-CH-38B	R. Poieni	Rosia Poieni	andesite	46.3035	23.1727				
RP-04-CH-39	R. Poieni	Virsii Mari	andesite	46.3163	23.1537				
RP-04-CH-40	R. Poieni	Melciului Hill	andesite	46.3181	23.1605				
RP-04-CH-44	R. Poieni	road to Detunata	andesite clast in volc-clastic sed.	46.2965	23.1854				
RP-04-CH-44B	R. Poieni	road to Detunata	andesite clast in volc-clastic sed.	46.2965	23.1854				
RP-04-CH-46	R. Poieni	open pit - level 2	andesite						
RP-04-CH-47	R. Poieni	open pit - level 3	trachyandesite						
RP-04-CH-48	R. Poieni	drill core	andesite						
RP-04-CH-49	R. Poieni	drill core	andesite						
RP-04-KK-08	R. Poieni	drill core RPSP-002	andesite			9.23	0.15	U-Pb ₄	same
RP-04-KK-08E	R. Poieni	drill core RPSP-002	andesite enclave						
HN-04-CH-20	Sacarimb	Hondol-Macris Valley	trachyandesite	46.0027	23.0092	10.35	0.43	K-Ar ₂	ER-399
ER-565	Cetras	Voia	andesite			11.54	0.50	K-Ar 2	same
ER-781	Cetras	Dealul Bulz, Hartagani	dacite			11.7	0.5	K-Ar ₅	ER-767
SC-04-CH-16	Sacarimb	Paralui Toader	trachyandesite	45.9987	23.0280	10.60	0.48	K-Ar ₂	ER-395
SC-04-CH-17	Sacarimb	Zuckerhut	andesite	45.9730	23.0289	10.89	0.58	K-Ar ₂	ER-390
SC-04-CH-18	Sacarimb	Haitau	andesite	45.9785	23.0318				
SC-04-CH-19	Sacarimb	Goroniste	andesite	45.9756	23.0208	11.17	0.48	K-Ar ₂	ER-394
UR-04-CH-00	Uroi	Uroi	trachyandesite	45.8569	23.0489	1.6	0.1	K-Ar ₁	UR-3
ER-140	Zlatna	Stanija: Dealul Muncel	basaltic andesite						
ER-592	Zlatna	Stanija	andesite			12.28	0.58	K-Ar ₂	same
ZL-04-CH-22	Zlatna	Almasul Mare open pit	andesite	46.1242	23.0901	11.07	0.63	K-Ar ₂	ER-594
ZL-04-CH-23	Zlatna	Breaza mine dump	dacite	46.1042	23.1449				
ZL-04-CH-24	Zlatna	Breaza mine dump	andesite	46.1042	23.1449				

*converted from degrees/minutes/seconds or UTM data

Footnotes:
1 Pecskey et al., 1995
2 Rosu et al., 2004
3 Kouzmanov et al., 2000
4 Kouzmanov et al., 2005
5 Rosu et al., 1997
6 Rosu et al., 2004 (Alba Iulia)