DOI: 10.1590/2317-4889201920180136

PSEUDOSECTION MODELING AND U-Pb GEOCHRONOLOGY ON PIRANGA SCHISTS: ROLE OF BRASILIANO OROGENY IN THE SOUTHEASTERN QUADRILÁTERO FERRÍFERO, MINAS GERAIS, BRAZIL

Yanne da Silva Queiroz; Gláucia Queiroga; Renato de Moraes; Victor Matheus Tavares Fernandes; Edgar Medeiros-Júnior; Hanna Jordt-Evangelista; Bernhard Schulz; Julia Schmiedel; Maximiliano Martins; Marco Paulo de Castro; Cristiano Lana

Mineral chemistry data for the main minerals (staurolite, garnet, white mica, biotite, plagioclase) of ME04, ME07 and ME08 samples.

Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME04	Micashist	110	Staurolite	27,603	0,645	51,764	13,848	0,116	1,757	0,012	0,005	0,000		95,750
ME04	Micashist	112	Staurolite	28,043	0,664	51,395	13,720	0,110	1,924	0,009	0,003	0,000		95,868
ME04	Micashist	113	Staurolite	27,900	0,673	51,717	13,584	0,062	2,002	0,002	0,018	0,000		95,958
ME04	Micashist	114	Staurolite	27,694	0,558	51,559	13,658	0,123	1,993	0,012	0,002	0,011		95,611
ME04	Micashist	115	Staurolite	28,166	0,648	51,773	13,648	0,106	1,906	0,007	0,018	0,000		96,273
ME04	Micashist	116	Staurolite	28,043	0,738	52,138	13,719	0,088	1,861	0,002	0,017	0,001		96,607
ME07	Micashist	13	Staurolite	28,023	0,604	54,664	12,050	0,039	1,935	0,000	0,100	0,004		97,419
ME07	Micashist	14	Staurolite	27,851	0,538	54,780	12,170	0,035	2,088	0,010	0,106	0,001		97,579
ME07	Micashist	15	Staurolite	28,549	0,562	54,132	12,090	0,046	2,042	0,026	0,096	0,001		97,544
ME07	Micashist	16	Staurolite	27,539	0,557	54,714	12,437	0,000	2,085	0,006	0,078	0,000		97,416
ME07	Micashist	17	Staurolite	27,568	0,537	55,166	12,276	0,021	2,049	0,000	0,074	0,004		97,695
ME07	Micashist	19	Staurolite	27,978	0,591	54,467	12,201	0,055	2,114	0,000	0,124	0,006		97,536
ME07	Micashist	68	Staurolite	27,987	0,605	54,858	12,311	0,000	2,028	0,050	0,110	0,015		97,964
ME07	Micashist	69	Staurolite	28,103	0,562	53,984	12,283	0,012	2,089	0,006	0,117	0,018		97,174
ME07	Micashist	70	Staurolite	27,792	0,542	53,870	12,203	0,026	2,173	0,013	0,143	0,003		96,765
ME07	Micashist	71	Staurolite	28,003	0,649	55,188	12,292	0,047	2,172	0,005	0,073	0,008		98,437
ME07	Micashist	72	Staurolite	27,942	0,583	54,940	12,338	0,000	2,072	0,000	0,107	0,009		97,991
ME07	Micashist	73	Staurolite	27,691	0,555	54,050	12,487	0,032	2,105	0,020	0,106	0,010		97,056
ME07	Micashist	74	Staurolite	28,038	0,550	54,304	12,220	0,036	1,974	0,008	0,106	0,002		97,238
ME07	Micashist	76	Staurolite	27,585	0,473	53,712	12,028	0,026	2,077	0,012	0,100	0,012		96,025
ME07	Micashist	77	Staurolite	27,772	0,535	54,444	12,057	0,000	2,012	0,011	0,078	0,013		96,922
ME07	Micashist	78	Staurolite	28,035	0,518	54,722	12,097	0,051	2,029	0,000	0,090	0,000		97,542
ME07	Micashist	79	Staurolite	28,293	0,547	54,841	11,823	0,000	2,039	0,008	0,072	0,001		97,624
ME07	Micashist	80	Staurolite	28,048	0,632	54,349	12,152	0,018	1,922	0,009	0,056	0,000		97,186
ME07	Micashist	81	Staurolite	28,111	0,542	54,971	12,197	0,049	2,064	0,000	0,091	0,000		98,025

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Mineral chemistry data for the main minerals (staurolite, garnet, white mica, biotite, plagioclase) of ME04, ME07 and ME08 samples.

Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME07	Micashist	82	Staurolite	27,644	0,529	54,420	12,281	0,020	2,064	0,002	0,119	0,006		97,085
ME07	Micashist	83	Staurolite	27,663	0,513	54,495	12,181	0,002	2,062	0,018	0,076	0,002		97,012
ME07	Micashist	85	Staurolite	27,845	0,603	54,165	12,060	0,010	1,858	0,000	0,098	0,001		96,640
ME07	Micashist	103	Staurolite	28,090	0,600	54,896	12,182	0,000	2,110	0,002	0,095	0,002		97,977
ME07	Micashist	104	Staurolite	28,449	0,561	55,705	12,166	0,019	2,268	0,000	0,129	0,018		99,315
ME07	Micashist	105	Staurolite	27,851	0,586	55,052	12,115	0,011	2,129	0,005	0,097	0,008		97,854
ME07	Micashist	106	Staurolite	27,812	0,630	54,663	12,468	0,042	1,958	0,025	0,088	0,002		97,688
ME07	Micashist	107	Staurolite	28,119	0,526	54,535	12,061	0,000	2,000	0,019	0,095	0,003		97,358
ME07	Micashist	108	Staurolite	28,074	0,616	54,988	11,995	0,000	1,911	0,000	0,135	0,015		97,734
ME07	Micashist	109	Staurolite	27,741	0,571	54,595	12,044	0,022	1,884	0,016	0,116	0,018		97,007
ME07	Micashist	110	Staurolite	28,082	0,560	54,699	12,059	0,023	2,030	0,005	0,125	0,013		97,596
ME07	Micashist	120	Staurolite	28,113	0,613	54,986	12,395	0,000	2,025	0,009	0,112	0,000		98,253
ME04	Micashist	67	Garnet	38,171	0,028	20,953	34,921	0,597	3,635	2,273	0,007	0,013		100,551
ME04	Micashist	68	Garnet	37,933	0,009	20,743	34,829	0,662	3,456	2,485	0,012	0,000		100,108
ME04	Micashist	69	Garnet	37,590	0,021	20,719	34,439	0,889	3,042	2,792	0,034	0,000		99,471
ME04	Micashist	70	Garnet	37,487	0,012	20,804	34,287	1,624	2,811	2,839	0,010	0,002		99,852
ME04	Micashist	71	Garnet	37,421	0,009	20,455	32,860	2,749	2,464	3,046	0,001	0,003		98,995
ME04	Micashist	72	Garnet	37,233	0,023	20,437	31,270	4,868	2,121	3,461	0,036	0,000		99,390
ME04	Micashist	73	Garnet	37,363	0,059	20,382	29,798	6,557	1,891	3,653	0,000	0,000		99,645
ME04	Micashist	74	Garnet	36,925	0,104	20,519	29,106	7,467	1,794	3,490	0,038	0,013		99,300
ME04	Micashist	75	Garnet	36,935	0,126	20,238	28,223	8,321	1,694	3,632	0,049	0,000		99,043
ME04	Micashist	76	Garnet	37,382	0,169	20,568	28,105	8,947	1,617	3,595	0,025	0,005		100,213
ME04	Micashist	77	Garnet	37,101	0,120	20,540	28,166	9,220	1,587	3,658	0,021	0,006		100,272
ME04	Micashist	78	Garnet	37,236	0,074	20,565	27,663	9,167	1,633	3,334	0,058	0,002		99,597
ME04	Micashist	79	Garnet	37,010	0,118	20,416	27,990	8,980	1,636	3,453	0,053	0,000		99,485

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Mineral chemistry data for the main minerals (staurolite, garnet, white mica, biotite, plagioclase) of ME04, ME07 and ME08 samples.

Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME04	Micashist	84	Garnet	36,706	0,035	20,426	31,702	4,770	2,190	3,332	0,043	0,011		99,215
ME04	Micashist	85	Garnet	36,956	0,076	20,561	33,109	2,881	2,431	3,278	0,032	0,007		99,329
ME04	Micashist	86	Garnet	36,967	0,034	20,499	33,977	1,691	2,692	3,003	0,026	0,000		98,889
ME04	Micashist	87	Garnet	37,178	0,049	20,610	34,687	1,208	2,977	2,806	0,022	0,001		99,537
ME04	Micashist	88	Garnet	37,947	0,045		34,818	0,843	3,100	2,757	0,024	0,000		100,577
ME04	Micashist	89	Garnet	37,995	0,045	20,862	34,792	0,643	3,298	2,604	0,034	0,011		100,283
ME04	Micashist	90	Garnet	38,246	0,050	20,917	34,700	0,559	3,602	2,547	0,037	0,006		100,663
ME04	Micashist	91	Garnet	37,690	0,008	21,025	34,524	0,840	3,595	2,633	0,026	0,006		100,347
ME04	Micashist	92	Garnet	37,859	0,460	20,993	34,388	1,199	3,653	2,374	0,002	0,000		100,927
ME04	Micashist	93	Garnet	37,877	0,103	20,960	34,019	1,544	3,366	2,567	0,030	0,009		100,473
ME04	Micashist	117	Garnet	38,119	0,000	21,123	33,810	1,384	3,574	2,413	0,014	0,005		100,442
ME04	Micashist	118	Garnet	38,365	0,035	21,172	34,324	0,756	3,868	2,326	0,025	0,000		100,869
ME04	Micashist	119	Garnet	38,151	0,011	21,125	34,821	0,499	3,739	2,469	0,012	0,001		100,827
ME04	Micashist	120	Garnet	38,115	0,060	21,007	35,162	0,595	3,292	2,779	0,026	0,000		101,036
ME04	Micashist	121	Garnet	37,651	0,072	20,831	35,076	1,008	3,003	2,826	0,020	0,002		100,487
ME04	Micashist	122	Garnet	37,633	0,089	20,958	33,853	2,180	2,581	3,070	0,054	0,006		100,424
ME04	Micashist	123	Garnet	37,319	0,056	20,956	32,309	4,343	2,240	3,219	0,025	0,000		100,467
ME04	Micashist	124	Garnet	37,388	0,085	20,460	31,136	5,598	2,108	3,497	0,051	0,000		100,323
ME04	Micashist	125	Garnet	37,053	0,097	20,399	30,099	6,764	1,865	3,546	0,032	0,000		99,854
ME04	Micashist	127	Garnet	38,207	0,033	20,795	29,874	7,195	1,885	3,508	0,029	0,000		101,525
ME04	Micashist	128	Garnet	37,844	0,083	20,834	29,493	7,311	1,874	3,420	0,071	0,000		100,928
ME04	Micashist	129	Garnet	37,496	0,026	20,882	29,971	7,153	1,861	3,271	0,045	0,005		100,711
ME04	Micashist	130	Garnet	37,299	0,000	20,720	30,166	7,048	1,978	3,124	0,063	0,000		100,397
ME04	Micashist	131	Garnet	37,320	0,013	20,779	29,431	7,081	1,913	3,138	0,048	0,000		99,723
ME04	Micashist	132	Garnet	37,684	0,094	20,763	30,216	6,839	1,890	3,557	0,057	0,011		101,111

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Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME04	Micashist	133	Garnet	37,396	0,070	20,755	30,209	6,864	1,972	3,527	0,045	0,000		100,837
ME04	Micashist	134	Garnet	37,194	0,111	20,812	30,215	6,562	1,950	3,663	0,049	0,008		100,563
ME04	Micashist	135	Garnet	37,406	0,040	20,776	30,804	5,652	2,028	3,457	0,036	0,000		100,198
ME04	Micashist	136	Garnet	37,681	0,012	20,656	32,816	4,150	2,255	3,185	0,019	0,008		100,781
ME04	Micashist	137	Garnet	37,112	0,054	20,550	33,614	2,308	2,593	3,064	0,026	0,000		99,320
ME04	Micashist	138	Garnet	37,516	0,022	20,585	34,748	1,357	2,878	2,850	0,003	0,014		99,973
ME04	Micashist	139	Garnet	37,467	0,033	20,777	35,380	0,806	3,126	2,716	0,009	0,005		100,319
ME04	Micashist	140	Garnet	37,917	0,017	21,166	35,270	0,567	3,230	2,904	0,011	0,000		101,082
ME04	Micashist	141	Garnet	37,957	0,064	21,045	35,214	0,379	3,608	2,608	0,010	0,000		100,885
ME04	Micashist	142	Garnet	37,662	0,068	20,880	34,877	0,458	3,874	2,569	0,010	0,002		100,400
ME04	Micashist	143	Garnet	37,686	0,000	20,924	34,509	0,937	3,733	2,604	0,031	0,008		100,431
ME04	Micashist	144	Garnet	37,690	0,009	20,911	34,287	1,559	3,318	2,347	0,009	0,015		100,144
ME08	Micashist	1	Garnet	37,487	0,036	20,812	34,236	1,784	3,355	2,116	0,008	0,011		99,844
ME08	Micashist	2	Garnet	37,421	0,000	20,850	33,964	1,671	3,377	2,397	0,038	0,000		99,718
ME08	Micashist	3	Garnet	37,406	0,015	20,836	31,523	2,586	2,771	4,537	0,001	0,000		99,676
ME08	Micashist	4	Garnet	37,383	0,044	20,650	29,724	4,274	2,178	4,961	0,010	0,000		99,224
ME08	Micashist	5	Garnet	37,448	0,093	20,653	29,522	5,848	1,867	4,888	0,027	0,000		100,345
ME08	Micashist	6	Garnet	37,461	0,087	20,680	28,251	6,679	1,635	5,232	0,034	0,000		100,059
ME08	Micashist	7	Garnet	37,473	0,082	20,656	27,626	7,164	1,531	5,566	0,015	0,001		100,114
ME08	Micashist	8	Garnet	37,305	0,136	20,331	27,790	7,427	1,513	5,423	0,062	0,011		99,998
ME08	Micashist	9	Garnet	37,617	0,027	20,708	28,028	6,648	1,644	5,694	0,042	0,000		100,409
ME08	Micashist	10	Garnet	37,443	0,096	20,552	27,926	6,458	1,685	5,384	0,095	0,018		99,657
ME08	Micashist	11	Garnet	37,655	0,095	20,302	28,376	5,962	1,780	5,383	0,056	0,014		99,622
ME08	Micashist	12	Garnet	37,619	0,027	20,678	29,358	5,661	1,938	4,425	0,015	0,002		99,724
ME08	Micashist	13	Garnet	37,780	0,124	20,545	29,762	5,157	1,982	4,908	0,024	0,000		100,283

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ME08	Micashist	14	Garnet	37,900	0,000	20,906	30,999	4,512	2,244	4,249	0,000	0,000		100,810
ME08	Micashist	15	Garnet	38,146	0,027	20,894	32,429	2,467	2,994	3,373	0,065	0,012		100,407
ME08	Micashist	16	Garnet	38,062	0,000	20,942	33,346	1,822	3,338	2,918	0,013	0,000		100,439
ME08	Micashist	17	Garnet	37,894	0,000	21,028	34,014	1,683	3,608	2,204	0,036	0,006		100,473
ME08	Micashist	18	Garnet	38,247	0,013	20,894	34,605	1,895	3,310	2,033	0,028	0,008		101,032
ME08	Micashist	43	Garnet	38,100	0,000	21,055	33,813	2,153	3,383	2,292	0,013	0,000		100,810
ME08	Micashist	44	Garnet	38,418	0,000	21,036	33,194	2,638	3,479	2,620	0,029	0,005		101,418
ME08	Micashist	45	Garnet	38,239	0,012	21,120	31,353	4,737	2,837	3,201	0,048	0,030		101,576
ME08	Micashist	46	Garnet	38,091	0,028	20,953	28,793	4,819	2,169	6,020	0,001	0,017		100,891
ME08	Micashist	47	Garnet	38,148	0,072	20,850	28,843	5,132	2,116	5,760	0,024	0,000		100,945
ME08	Micashist	48	Garnet	38,420	0,149	20,445	28,216	5,807	2,109	6,082	0,033	0,001		101,263
ME08	Micashist	49	Garnet	37,968	0,159	20,368	28,432	6,529	2,014	5,200	0,026	0,000		100,696
ME08	Micashist	50	Garnet	38,083	0,006	20,841	29,670	5,533	2,485	3,953	0,020	0,001		100,593
ME08	Micashist	51	Garnet	37,892	0,006	20,844	28,639	6,197	2,164	4,923	0,036	0,012		100,712
ME08	Micashist	52	Garnet	37,972	0,058	20,562	28,706	6,730	2,116	4,645	0,021	0,000		100,810
ME08	Micashist	53	Garnet	37,733	0,104	20,554	28,315	6,886	1,915	5,094	0,035	0,001		100,636
ME08	Micashist	54	Garnet	37,561	0,084	20,393	28,435	5,587	2,039	5,747	0,020	0,000		99,868
ME08	Micashist	55	Garnet	37,630	0,116	20,304	29,797	4,937	2,402	4,656	0,006	0,013		99,860
ME08	Micashist	56	Garnet	37,797	0,091	20,378	29,746	5,317	2,287	4,857	0,000	0,000		100,473
ME08	Micashist	57	Garnet	38,007	0,111	20,580	28,835	4,588	2,300	5,970	0,014	0,006		100,410
ME08	Micashist	58	Garnet	37,872	0,026	20,768	29,102	3,970	2,411	6,002	0,014	0,005		100,169
ME08	Micashist	59	Garnet	37,494	0,019	20,850	30,906	2,697	2,981	4,436	0,025	0,000		99,408
ME08	Micashist	60	Garnet	37,617	0,000	20,626	32,301	2,146	3,381	3,442	0,045	0,003		99,560
ME08	Micashist	61	Garnet	37,591	0,013	21,120	33,360	2,033	3,473	2,360	0,034	0,000		99,984
ME08	Micashist	62	Garnet	37,625	0,030	20,802	33,957	1,918	3,531	2,040	0,049	0,000		99,952

DOI: 10.1590/2317-4889201920180136

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Mineral chemistry data for the main minerals (staurolite, garnet, white mica, biotite, plagioclase) of ME04, ME07 and ME08 samples.

Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME08	Micashist	83	Garnet	37,936	0,010	20,692	34,441	1,555	3,499	2,054	0,021	0,000		100,207
ME08	Micashist	84	Garnet	37,577	0,024	20,883	34,319	1,599	3,391	2,369	0,052	0,004		100,218
ME08	Micashist	85	Garnet	37,707	0,000	20,933	33,418	2,983	2,855	3,172	0,011	0,000		101,078
ME08	Micashist	86	Garnet	37,639	0,017	20,852	31,672	3,161	2,485	4,380	0,021	0,003		100,231
ME08	Micashist	87	Garnet	37,567	0,071	20,523	31,766	3,943	2,646	3,535	0,044	0,000		100,095
ME08	Micashist	88	Garnet	37,897	0,074	20,773	30,908	4,434	2,336	4,418	0,013	0,002		100,856
ME08	Micashist	89	Garnet	37,767	0,032	20,599	30,197	4,428	2,290	4,549	0,021	0,000		99,883
ME08	Micashist	90	Garnet	37,385	0,040	20,744	31,452	4,492	2,320	3,922	0,000	0,012		100,366
ME08	Micashist	91	Garnet	37,690	0,026	20,653	32,042	3,875	2,483	3,789	0,018	0,000		100,575
ME08	Micashist	92	Garnet	37,707	0,031	20,855	31,637	3,441	2,364	4,354	0,021	0,001		100,410
ME08	Micashist	93	Garnet	36,905	0,022	20,235	32,329	3,451	2,469	3,185	0,028	0,000		98,622
ME08	Micashist	94	Garnet	37,649	0,001	20,849	33,511	2,182	2,786	3,588	0,027	0,003		100,594
ME08	Micashist	95	Garnet	37,634	0,014	20,909	34,142	1,539	3,060	3,138	0,021	0,009		100,465
ME08	Micashist	96	Garnet	38,050	0,022	21,017	34,163	1,361	3,223	2,790	0,033	0,000		100,658
ME08	Micashist	97	Garnet	38,244	0,024	21,106	34,938	1,176	3,509	2,147	0,000	0,000		101,144
ME08	Micashist	98	Garnet	38,079	0,000	21,197	34,777	1,429	3,386	2,350	0,031	0,001		101,252
ME08	Micashist	99	Garnet	37,964	0,022	20,550	34,141	1,743	3,370	2,080	0,023	0,016		99,908
ME07	Micashist	1	Garnet	38,064	0,008	21,983	33,321	0,348	4,831	2,112	0,000	0,010	0,043	100,760
ME07	Micashist	2	Garnet	37,758	0,002	21,694	33,079	0,627	4,434	2,522	0,021	0,017	0,035	100,261
ME07	Micashist	3	Garnet	37,281	0,162	22,114	33,211	0,698	4,320	2,294	0,023	0,004	0,067	100,250
ME07	Micashist	4	Garnet	37,980	0,048	21,979	33,631	0,780	4,482	2,418	0,000	0,008	0,000	101,363
ME07	Micashist	5	Garnet	37,684	0,034	21,981	33,204	0,798	4,425	2,484	0,021	0,005	0,028	100,852
ME07	Micashist	6	Garnet	37,678	0,030	21,941	33,657	0,906	4,472	2,116	0,004	0,007	0,000	100,863
ME07	Micashist	7	Garnet	37,705	0,061	21,873	32,946	0,764	4,336	2,833	0,011	0,000	0,011	100,551
ME07	Micashist	8	Garnet	37,967	0,044	22,253	33,737	0,367	4,438	2,252	0,020	0,009	0,090	101,273

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Mineral chemistry data for the main minerals (staurolite, garnet, white mica, biotite, plagioclase) of ME04, ME07 and ME08 samples.

Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME07	Micashist	9	Garnet	38,004	0,063	22,044	33,869	0,250	4,374	2,707	0,008	0,007	0,026	101,394
ME07	Micashist	10	Garnet	38,103	0,035	21,785	33,386	0,134	4,608	2,741	0,003	0,012	0,017	100,824
ME07	Micashist	11	Garnet	38,029	0,032	21,898	33,707	0,174	5,213	1,860	0,053	0,000	0,000	100,986
ME07	Micashist	12	Garnet	37,987	0,006	21,831	33,549	0,207	5,172	1,749	0,017	0,018	0,000	100,580
ME07	Micashist	47	Garnet	37,928	0,000	22,231	33,824	0,293	4,787	2,367	0,018	0,002	0,000	101,633
ME07	Micashist	48	Garnet	37,627	0,038	21,613	33,505	1,714	3,230	3,387	0,036	0,012	0,047	101,214
ME07	Micashist	49	Garnet	37,402	0,017	21,669	33,218	2,743	2,419	3,446	0,009	0,000	0,021	100,955
ME07	Micashist	50	Garnet	37,222	0,017	21,770	32,638	3,123	2,195	3,846	0,005	0,002	0,002	100,835
ME07	Micashist	51	Garnet	37,176	0,030	21,705	32,794	3,017	2,202	3,597	0,001	0,000	0,011	100,563
ME07	Micashist	52	Garnet	37,268	0,061	21,549	33,682	2,571	2,436	3,347	0,010	0,015	0,044	101,026
ME07	Micashist	53	Garnet	37,386	0,040	21,824	34,093	1,988	2,704	3,083	0,000	0,004	0,000	101,177
ME07	Micashist	54	Garnet	37,354	0,035	21,919	33,920	1,965	2,690	3,067	0,037	0,000	0,088	101,174
ME07	Micashist	55	Garnet	37,488	0,028	21,723	34,119	2,011	2,363	3,220	0,046	0,000	0,074	101,120
ME07	Micashist	56	Garnet	37,601	0,040	21,718	34,247	2,041	2,549	3,098	0,021	0,006	0,048	101,557
ME07	Micashist	57	Garnet	37,883	0,070	21,901	34,373	0,739	3,460	3,189	0,029	0,013	0,072	101,812
ME07	Micashist	58	Garnet	38,244	0,008	22,117	32,887	0,381	4,532	3,201	0,025	0,003	0,043	101,444
ME07	Micashist	59	Garnet	37,948	0,017	22,137	33,976	0,243	5,078	1,846	0,020	0,004	0,020	101,290
ME07	Micashist	60	Garnet	38,234	0,017	22,233	33,763	0,190	5,190	1,734	0,016	0,009	0,019	101,458
ME07	Micashist	94	Garnet	38,339	0,004	22,255	33,921	0,212	5,235	1,886	0,059	0,000	0,008	101,987
ME07	Micashist	95	Garnet	37,489	0,000	21,817	33,944	0,169	4,518	2,210	0,017	0,031	0,030	100,234
ME07	Micashist	96	Garnet	37,836	0,000	21,938	34,006	0,172	4,534	2,277	0,019	0,000	0,000	100,783
ME07	Micashist	97	Garnet	37,881	0,037	21,986	33,911	0,158	4,860	2,164	0,015	0,003	0,074	101,108
ME07	Micashist	98	Garnet	37,743	0,040	22,014	34,495	0,130	4,256	2,443	0,033	0,015	0,091	101,404
ME07	Micashist	99	Garnet	37,570	0,034	21,908	34,060	0,140	4,179	2,496	0,041	0,010	0,089	100,553
ME07	Micashist	100	Garnet	37,517	0,000	21,812	33,922	0,202	4,154	2,768	0,064	0,027	0,069	100,601

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Mineral chemistry data for the main minerals (staurolite, garnet, white mica, biotite, plagioclase) of ME04, ME07 and ME08 samples.

Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME07	Micashist	101	Garnet	37,445	0,024	21,758	33,702	0,138	4,560	2,403	0,049	0,014	0,007	100,101
ME07	Micashist	102	Garnet	37,602	0,000	21,925	33,838	0,257	4,782	1,834	0,001	0,015	0,063	100,317
ME07	Micashist	114	Garnet	38,315	0,000	22,316	33,927	0,217	5,076	1,952	0,048	0,005	0,000	101,892
ME07	Micashist	115	Garnet	38,041	0,027	22,359	33,647	0,170	5,113	2,192	0,032	0,011	0,106	101,777
ME07	Micashist	116	Garnet	38,177	0,017	22,170	33,367	0,214	5,069	2,455	0,047	0,022	0,016	101,653
ME07	Micashist	117	Garnet	38,170	0,059	22,209	33,469	0,230	5,035	2,291	0,074	0,001	0,034	101,702
ME07	Micashist	118	Garnet	38,067	0,095	22,213	33,469	0,141	5,123	2,231	0,025	0,017	0,004	101,484
ME07	Micashist	119	Garnet	38,205	0,000	22,197	33,792	0,233	5,073	1,792	0,043	0,006	0,057	101,398
ME08	Micashist	26	Plagioclase	63,304	0,000	22,975	0,042	0,022	0,000	4,763	9,119	0,069		100,294
ME08	Micashist	27	Plagioclase	63,728	0,000	22,821	0,021	0,000	0,000	4,419	9,212	0,052		100,253
ME08	Micashist	29	Plagioclase	63,882	0,023	22,608	0,080	0,000	0,000	4,224	9,366	0,102		100,284
ME08	Micashist	30	Plagioclase	63,519	0,038	23,320	0,026	0,000	0,000	4,853	9,136	0,066		100,958
ME08	Micashist	31	Plagioclase	62,542	0,039	23,006	0,029	0,000	0,000	4,881	9,022	0,123		99,642
ME08	Micashist	32	Plagioclase	62,545	0,000	22,503	0,024	0,000	0,000	4,393	9,355	0,069		98,890
ME08	Micashist	33	Plagioclase	62,716	0,059	22,641	0,031	0,008	0,000	4,505	9,242	0,058		99,259
ME08	Micashist	34	Plagioclase	62,826	0,008	22,471	0,031	0,005	0,000	4,392	9,254	0,071		99,057
ME08	Micashist	35	Plagioclase	63,222	0,000	22,578	0,197	0,026	0,000	4,501	9,264	0,054		99,841
ME08	Micashist	36	Plagioclase	62,952	0,041	22,463	0,056	0,000	0,006	4,455	9,273	0,064		99,309
ME08	Micashist	37	Plagioclase	62,705	0,000	22,498	0,038	0,015	0,000	4,384	9,468	0,072		99,180
ME08	Micashist	38	Plagioclase	62,446	0,020	22,378	0,081	0,000	0,000	4,363	9,317	0,067		98,671
ME08	Micashist	39	Plagioclase	63,200	0,017	22,588	0,050	0,013	0,000	4,454	9,328	0,049		99,698
ME08	Micashist	40	Plagioclase	62,817	0,030	22,515	0,056	0,008	0,005	4,464	9,393	0,071		99,359
ME08	Micashist	41	Plagioclase	62,469	0,002	22,316	0,079	0,041	0,000	4,475	9,350	0,065		98,796
ME08	Micashist	42	Plagioclase	63,197	0,018	22,756	0,174	0,010	0,000	4,419	9,296	0,073		99,943
ME08	Micashist	70	Plagioclase	62,443	0,023	22,502	0,020	0,000	0,000	4,468	9,277	0,055		98,787

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Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME08	Micashist	71	Plagioclase	61,671	0,029	22,052	0,019	0,012	0,000	4,440	9,211	0,070		97,503
ME08	Micashist	72	Plagioclase	60,696	0,036	23,055	0,038	0,003	0,000	5,307	8,775	0,055		97,965
ME08	Micashist	73	Plagioclase	61,192	0,039	23,185	0,007	0,000	0,000	5,397	8,586	0,070		98,475
ME08	Micashist	74	Plagioclase	60,487	0,000	23,150	0,002	0,020	0,000	5,380	8,634	0,066		97,738
ME08	Micashist	75	Plagioclase	60,454	0,000	23,063	0,000	0,000	0,004	5,437	8,535	0,038		97,531
ME08	Micashist	76	Plagioclase	60,699	0,009	23,375	0,006	0,000	0,000	5,484	8,467	0,073		98,112
ME08	Micashist	77	Plagioclase	62,092	0,004	22,397	0,020	0,000	0,000	4,397	9,282	0,050		98,242
ME08	Micashist	78	Plagioclase	62,003	0,018	22,408	0,000	0,000	0,000	4,493	9,079	0,047		98,047
ME08	Micashist	79	Plagioclase	62,180	0,037	22,772	0,025	0,000	0,000	4,519	9,139	0,073		98,745
ME08	Micashist	80	Plagioclase	61,856	0,002	22,284	0,033	0,000	0,005	4,423	9,197	0,046		97,845
ME08	Micashist	81	Plagioclase	62,044	0,000	22,452	0,018	0,009	0,000	4,509	9,016	0,080		98,130
ME08	Micashist	82	Plagioclase	62,371	0,000	22,567	0,046	0,012	0,000	4,467	9,289	0,054		98,807
ME08	Micashist	109	Plagioclase	62,727	0,072	22,574	0,119	0,000	0,004	4,479	9,395	0,065		99,436
ME08	Micashist	110	Plagioclase	62,835	0,014	22,452	0,018	0,000	0,000	4,407	9,250	0,059		99,035
ME08	Micashist	111	Plagioclase	62,892	0,020	22,542	0,008	0,000	0,000	4,238	9,412	0,056		99,167
ME08	Micashist	112	Plagioclase	63,285	0,057	22,260	0,043	0,000	0,000	4,097	9,577	0,082		99,401
ME08	Micashist	113	Plagioclase	63,625	0,000	22,121	0,045	0,003	0,002	4,009	9,558	0,057		99,420
ME08	Micashist	114	Plagioclase	62,485	0,039	22,551	0,076	0,015	0,000	4,409	9,138	0,065		98,777
ME08	Micashist	115	Plagioclase	62,291	0,047	23,606	0,333	0,027	0,019	2,463	8,626	1,398		98,810
ME04	Micashist	98	Plagioclase	64,550	0,000	22,122	0,014	0,012	0,000	3,711	9,796	0,078		100,283
ME04	Micashist	99	Plagioclase	63,741	0,011	22,455	0,032	0,000	0,000	4,258	9,342	0,096		99,934
ME04	Micashist	100	Plagioclase	62,777	0,019	22,142	0,005	0,000	0,004	3,956	9,605	0,074		98,581
ME04	Micashist	101	Plagioclase	64,094	0,000	21,705	0,049	0,000	0,000	3,486	9,798	0,064		99,195
ME04	Micashist	102	Plagioclase	63,760	0,003	22,068	0,025	0,020	0,004	3,695	9,736	0,051		99,363
ME04	Micashist	103	Plagioclase	61,842	0,000	22,141	0,115	0,020	0,000	4,436	9,151	0,063		97,768

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ME04	Micashist	104	Plagioclase	61,568	0,018	22,325	0,033	0,017	0,000	4,494	9,171	0,059		97,684
ME04	Micashist	105	Plagioclase	61,327	0,026	22,533	0,029	0,000	0,000	4,724	9,079	0,043		97,762
ME04	Micashist	106	Plagioclase	62,822	0,012	22,131	0,032	0,001	0,000	3,970	9,518	0,067		98,553
ME04	Micashist	107	Plagioclase	63,264	0,027	21,772	0,063	0,002	0,000	3,958	9,563	0,049		98,698
ME04	Micashist	159	Plagioclase	62,443	0,032	22,716	0,192	0,000	0,000	4,668	9,313	0,040		99,403
ME04	Micashist	160	Plagioclase	62,468	0,029	22,300	0,395	0,000	0,058	3,788	9,385	0,308		98,729
ME04	Micashist	161	Plagioclase	60,270	0,006	22,253	0,819	0,000	0,171	3,683	8,431	1,794		97,429
ME04	Micashist	168	Plagioclase	62,481	0,000	22,588	0,071	0,000	0,000	4,587	9,186	0,075		98,987
ME04	Micashist	169	Plagioclase	62,560	0,003	22,906	0,072	0,000	0,000	4,748	9,095	0,074		99,458
ME04	Micashist	170	Plagioclase	62,774	0,000	22,715	0,080	0,013	0,000	4,557	9,313	0,063		99,514
ME04	Micashist	171	Plagioclase	62,881	0,022	22,565	0,054	0,018	0,000	4,279	9,348	0,073		99,240
ME04	Micashist	172	Plagioclase	63,469	0,021	22,738	0,080	0,000	0,000	4,572	9,202	0,068		100,150
ME04	Micashist	173	Plagioclase	62,378	0,001	22,970	0,053	0,000	0,007	4,867	9,071	0,055		99,403
ME04	Micashist	174	Plagioclase	62,140	0,000	22,732	0,017	0,000	0,000	4,770	8,923	0,064		98,645
ME04	Micashist	175	Plagioclase	62,505	0,000	22,607	0,072	0,014	0,000	4,702	9,181	0,045		99,126
ME04	Micashist	176	Plagioclase	61,931	0,063	22,832	0,156	0,000	0,000	4,833	8,986	0,057		98,857
ME04	Micashist	177	Plagioclase	61,664	0,000	23,009	0,066	0,007	0,000	4,938	9,026	0,064		98,774
ME04	Micashist	178	Plagioclase	61,833	0,000	22,776	0,056	0,004	0,000	4,786	9,093	0,059		98,607
ME07	Micashist	26	Plagioclase	63,089	0,033	23,926	0,035	0,057	0,005	4,825	8,956	0,062	0,000	101,004
ME07	Micashist	27	Plagioclase	62,024	0,016	23,847	0,014	0,018	0,010	4,769	8,562	0,060	0,044	99,367
ME07	Micashist	28	Plagioclase	62,786	0,030	24,013	0,023	0,038	0,000	4,696	9,148	0,059	0,000	100,794
ME07	Micashist	29	Plagioclase	62,768	0,000	23,922	0,031	0,029	0,000	4,757	8,998	0,041	0,000	100,618
ME07	Micashist	30	Plagioclase	62,951	0,006	23,991	0,072	0,000	0,001	4,741	9,098	0,031	0,000	100,988
ME07	Micashist	32	Plagioclase	63,183	0,018	24,473	0,059	0,013	0,000	4,852	9,169	0,040	0,000	101,894
ME07	Micashist	33	Plagioclase	62,858	0,000	24,073	0,068	0,009	0,000	4,689	9,008	0,033	0,008	100,795

DOI: 10.1590/2317-4889201920180136

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Mineral chemistry data for the main minerals (staurolite, garnet, white mica, biotite, plagioclase) of ME04, ME07 and ME08 samples.

Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME07	Micashist	34	Plagioclase	63,498	0,000	24,188	0,047	0,000	0,000	4,646	9,217	0,043	0,000	101,721
ME07	Micashist	35	Plagioclase	62,846	0,000	24,125	0,050	0,009	0,000	4,841	8,984	0,056	0,000	100,916
ME07	Micashist	36	Plagioclase	62,312	0,005	23,945	0,035	0,000	0,008	4,745	8,929	0,049	0,000	100,137
ME07	Micashist	37	Plagioclase	62,443	0,008	24,044	0,053	0,022	0,000	4,780	8,920	0,053	0,000	100,387
ME07	Micashist	38	Plagioclase	62,395	0,000	24,021	0,056	0,000	0,000	4,857	8,980	0,059	0,008	100,439
ME07	Micashist	39	Plagioclase	62,522	0,039	24,120	0,117	0,001	0,000	4,770	9,116	0,055	0,000	100,893
ME07	Micashist	40	Plagioclase	62,698	0,028	24,290	0,080	0,027	0,018	4,751	9,080	0,047	0,000	101,112
ME07	Micashist	41	Plagioclase	60,713	0,000	24,714	0,072	0,000	0,001	5,962	8,297	0,052	0,000	99,889
ME07	Micashist	42	Plagioclase	61,657	0,000	24,492	0,083	0,011	0,000	5,422	8,635	0,067	0,000	100,444
ME07	Micashist	43	Plagioclase	62,363	0,000	23,984	0,188	0,000	0,015	4,866	8,991	0,029	0,059	100,502
ME07	Micashist	44	Plagioclase	62,869	0,000	23,932	0,164	0,009	0,000	4,693	9,124	0,039	0,009	100,953
ME07	Micashist	45	Plagioclase	62,373	0,000	24,009	0,118	0,000	0,000	4,785	8,844	0,037	0,017	100,204
ME07	Micashist	46	Plagioclase	61,946	0,000	23,821	0,152	0,006	0,020	4,910	8,996	0,052	0,017	100,008
ME08	Micashist	19	Biotite	36,004	1,491	18,297	17,623	0,024	11,197	0,023	0,340	8,934		93,934
ME08	Micashist	20	Biotite	35,955	1,566	18,231	17,467	0,066	11,167	0,016	0,326	9,008		93,801
ME08	Micashist	22	Biotite	36,794	1,634	18,470	17,660	0,071	11,178	0,000	0,334	9,017		95,158
ME08	Micashist	23	Biotite	35,784	1,562	17,775	17,321	0,050	10,975	0,069	0,451	8,733		92,720
ME08	Micashist	24	Biotite	37,124	1,609	18,554	17,668	0,015	10,891	0,039	0,372	8,800		95,071
ME08	Micashist	25	Biotite	36,271	1,546	18,342	16,980	0,043	11,093	0,022	0,427	8,828		93,551
ME08	Micashist	63	Biotite	36,464	1,555	18,443	17,340	0,062	11,391	0,015	0,303	8,967		94,541
ME08	Micashist	64	Biotite	36,639	1,534	18,672	18,181	0,052	11,468	0,025	0,288	8,666		95,525
ME08	Micashist	65	Biotite	36,082	1,516	18,471	17,573	0,049	11,416	0,026	0,333	9,056		94,521
ME08	Micashist	66	Biotite	36,177	1,508	18,368	17,217	0,040	11,390	0,020	0,296	9,012		94,028
ME08	Micashist	67	Biotite	35,398	1,526	18,092	17,235	0,056	11,475	0,019	0,287	8,888		92,976
ME08	Micashist	68	Biotite	35,279	1,543	17,940	17,510	0,034	11,505	0,031	0,303	8,924		93,071

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Mineral chemistry data for the main minerals (staurolite, garnet, white mica, biotite, plagioclase) of ME04, ME07 and ME08 samples.

Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME08	Micashist	69	Biotite	35,357	1,529	18,141	17,727	0,052	11,361	0,016	0,306	9,111		93,601
ME08	Micashist	106	Biotite	36,175	1,508	18,371	17,825	0,040	11,173	0,000	0,356	8,799		94,246
ME08	Micashist	107	Biotite	36,594	1,559	18,434	17,682	0,009	11,260	0,016	0,331	8,862		94,746
ME08	Micashist	108	Biotite	36,448	1,614	18,442	18,014	0,008	11,233	0,000	0,336	8,933		95,028
ME04	Micashist	94	Biotite	36,434	1,776	18,924	17,109	0,018	11,107	0,002	0,319	9,066		94,755
ME04	Micashist	95	Biotite	36,325	1,682	18,727	16,947	0,011	11,269	0,013	0,325	9,121		94,417
ME04	Micashist	96	Biotite	36,774	1,749	18,721	17,200	0,025	11,257	0,000	0,373	9,118		95,216
ME04	Micashist	97	Biotite	36,541	1,735	18,894	17,601	0,043	11,311	0,000	0,361	9,087		95,574
ME04	Micashist	109	Biotite	36,115	1,684	18,538	17,878	0,002	11,364	0,014	0,326	9,140		95,061
ME04	Micashist	145	Biotite	35,795	1,512	18,907	17,239	0,015	11,437	0,009	0,308	9,271		94,492
ME04	Micashist	146	Biotite	35,595	1,428	18,839	17,513	0,000	11,467	0,012	0,313	9,333		94,498
ME04	Micashist	147	Biotite	36,117	1,722	18,762	17,496	0,027	11,018	0,020	0,353	9,071		94,585
ME04	Micashist	148	Biotite	36,079	1,535	18,549	17,069	0,034	11,214	0,000	0,317	9,252		94,049
ME04	Micashist	157	Biotite	35,889	1,883	18,643	18,345	0,025	10,623	0,017	0,226	9,378		95,028
ME04	Micashist	158	Biotite	35,741	1,573	18,740	18,320	0,077	10,536	0,014	0,242	9,486		94,729
ME04	Micashist	166	Biotite	36,530	1,640	18,880	17,200	0,040	11,280	0,020	0,410	9,100		95,100
ME04	Micashist	167	Biotite	36,350	1,680	18,750	16,870	0,000	11,170	0,000	0,400	9,120		94,340
ME07	Micashist	20	Biotite	35,949	1,299	18,440	14,768	0,016	13,286	0,040	0,440	8,339	0,106	92,870
ME07	Micashist	21	Biotite	36,739	1,351	18,639	14,964	0,000	13,442	0,038	0,431	8,572	0,038	94,499
ME07	Micashist	22	Biotite	33,770	1,400	18,118	16,139	0,023	12,645	0,054	0,392	7,804	0,088	90,585
ME07	Micashist	23	Biotite	36,846	1,475	18,846	14,630	0,002	13,340	0,036	0,385	8,735	0,010	94,488
ME07	Micashist	24	Biotite	36,605	1,292	18,757	14,680	0,023	13,296	0,023	0,386	8,649	0,002	93,877
ME07	Micashist	25	Biotite	37,195	1,378	18,826	14,665	0,000	13,490	0,048	0,432	8,838	0,125	95,064
ME07	Micashist	86	Biotite	37,396	1,467	18,604	14,712	0,009	13,520	0,053	0,353	8,500	0,139	94,920
ME07	Micashist	87	Biotite	37,657	1,444	18,839	14,334	0,000	13,767	0,094	0,380	8,347	0,121	95,097

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Sample	Rock	Spot Number	Mineral	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Cr_2O_3	TOTAL
ME07	Micashist	88	Biotite	37,159	1,464	18,521	14,773	0,025	13,263	0,098	0,306	8,376	0,230	94,350
ME07	Micashist	89	Biotite	35,987	1,391	18,379	14,182	0,029	12,918	0,178	0,531	7,649	0,106	91,573
ME07	Micashist	90	Biotite	36,465	1,443	18,779	14,784	0,020	13,285	0,047	0,332	8,292	0,172	93,770
ME07	Micashist	124	Biotite	36,862	1,401	18,635	14,979	0,000	13,347	0,085	0,390	8,446	0,175	94,569
ME07	Micashist	125	Biotite	36,619	1,360	18,778	15,117	0,000	13,305	0,077	0,405	8,368	0,137	94,315
ME07	Micashist	126	Biotite	36,737	1,359	18,791	15,001	0,000	13,388	0,104	0,383	7,910	0,097	93,851
ME07	Micashist	127	Biotite	36,650	1,432	18,430	15,083	0,000	13,285	0,073	0,411	8,616	0,169	94,286
ME07	Micashist	128	Biotite	37,313	1,378	18,946	15,028	0,002	13,544	0,084	0,325	8,393	0,146	95,306
ME07	Micashist	129	Biotite	36,670	1,420	18,828	15,283	0,019	13,166	0,076	0,359	8,221	0,202	94,440
ME08	Micashist	100	Muscovite	44,652	0,310	35,020	1,970	0,024	0,822	0,034	2,147	7,835		92,814
ME08	Micashist	101	Muscovite	45,344	0,334	34,237	1,485	0,012	0,572	0,019	1,772	8,573		92,348
ME08	Micashist	102	Muscovite	45,452	0,343	35,197	1,561	0,000	0,424	0,031	1,738	8,752		93,498
ME08	Micashist	103	Muscovite	46,184	0,283	34,662	1,577	0,000	0,697	0,014	1,705	8,796		93,918
ME08	Micashist	104	Muscovite	44,860	0,258	34,811	1,902	0,022	0,825	0,018	1,693	8,465		92,854
ME04	Micashist	154	Muscovite	45,170	0,390	35,710	1,050	0,030	0,460	0,000	1,690	8,690		93,180
ME04	Micashist	155	Muscovite	45,460	0,480	35,350	1,070	0,000	0,550	0,010	1,550	8,920		93,400
ME04	Micashist	156	Muscovite	45,890	0,430	35,300	1,030	0,020	0,550	0,020	1,520	8,930		93,690