

DOI: 10.1590/2317-4889201820170092

NEPHELINE SYENITES TO SYENITES AND GRANITIC ROCKS OF THE ITATIAIA ALKALINE MASSIF,
SOUTHEASTERN BRAZIL: NEW GEOLOGICAL INSIGHTS INTO A MIGRATORY RING COMPLEX
Pedro Augusto da Silva Rosa, Excelso Ruberti

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Outcrops	Longitude	Latitude	Altitude (m)
MAI001	545925	7521568	734
MAI002	547628	7520540	519
MAI003	550979	7521617	501
MAI004	550870	7522084	529
MAI005	550097	7522472	552
MAI006	549093	7522589	600
MAI007	544491	7523095	1056
MAI008	544341	7522947	1091
MAI009	544042	7522990	1140
MAI010	543175	7522810	1247
MAI011	543026	7522880	1301
MAI012	542870	7522879	1363
MAI013	517490	7532277	1057
MAI014	518710	7532217	1035
MAI015	518752	7531823	1015
MAI016	516876	7530887	989
MAI017	539114	7519736	1098
MAI018	539264	7519887	1152
MAI019	539105	7519617	1125
MAI020	538484	7518863	1227
MAI021	538333	7519132	1325
MAI022	538316	7519525	1378
MAI023	534977	7513904	500
MAI024	534582	7515272	559
MAI025	534844	7515575	628
MAI026	534991	7516187	655
MAI027	535513	7517677	965
MAI028	535286	7517164	743
MAI029	535024	7517099	822
MAI030	542911	7519981	1725
MAI031	542899	7520044	1684
MAI032	542769	7520124	1641
MAI033	542377	7520267	1620
MAI034	542048	7520286	1574
MAI035	541869	7519837	1453
MAI036	541568	7519568	1334
MAI037	541375	7519435	1289
MAI038	541131	7519318	1266
MAI039	540903	7519329	1241

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Outcrops	Longitude	Latitude	Altitude (m)
MAI040	540422	7519364	1210
MAI041	543232	7514339	543
MAI042	542631	7517634	902
MAI043	542941	7517814	883
MAI044	543641	7517573	874
MAI045	543111	7517516	890
MAI046E	542766	7517376	851
MAI046F	542733	7517355	850
MAI047	542613	7517034	805
MAI048	542548	7516996	816
MAI049	542307	7516726	730
MAI050	542220	7516469	660
MAI051	542020	7516252	636
MAI052	540372	7516027	682
MAI053	540357	7516116	710
MAI054	540494	7515689	695
MAI055	540113	7515192	648
MAI056	539831	7515258	717
MAI057	539872	7514811	609
MAI058	542896	7516446	601
MAI058B	542894	7516535	633
MAI059	542793	7516061	608
MAI060	539357	7514647	749
MAI061	540065	7517733	929
MAI062	539727	7518825	1040
MAI063	538021	7519773	1501
MAI064	537807	7519974	1525
MAI065	537636	7520350	1618
MAI066	537171	7520525	1789
MAI067	539828	7519475	1228
MAI068	541449	7516115	693
MAI069	541144	7516160	708
MAI070	533820	7523864	2337
MAI071	534267	7523613	2307
MAI072	535098	7523548	2315
MAI073	535641	7523307	2376
MAI074	534147	7523479	2335
MAI075	535568	7522855	2315
MAI076	535303	7522938	2434

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Outcrops	Longitude	Latitude	Altitude (m)
MAI077	533927	7523449	2406
MAI078	533955	7522960	2491
MAI079	534400	7522993	2435
MAI080	534740	7522955	2404
MAI081	533342	7524230	2372
MAI082	532764	7524335	2520
MAI083	530382	7525685	2466
MAI084	531423	7524467	2646
MAI085	530920	7524770	2581
MAI086	530637	7524998	2570
MAI087	530571	7525412	2578
MAI088	536781	7521026	1945
MAI089	537333	7521707	2013
MAI089B	537091	7521833	2035
MAI090	536941	7522500	2107
MAI091	536157	7522001	2189
MAI092	535522	7522062	2207
MAI093	533612	7525740	2630
MAI094	534059	7525808	2551
MAI095	534415	7525814	2659
MAI096	534687	7526891	2396
MAI096B	534842	7527101	2398
MAI097	536030	7527018	2412
MAI097C	535859	7526923	2430
MAI098	535615	7526653	2513
MAI099	534794	7526027	2679
MAI100	535061	7526809	2449
MAI101	535018	7527561	2411
MAI102	534128	7527221	2377
MAI103	534541	7527778	2273
MAI104	527139	7529620	1961
MAI105	527252	7528987	2086
MAI106	527207	7527818	2159
MAI107	527643	7526948	2227
MAI108	528197	7526700	2268
MAI109	534649	7525011	2642
MAI110	534453	7525193	2569
MAI111	534182	7525553	2533
MAI112	529939	7526336	2354

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Outcrops	Longitude	Latitude	Altitude (m)
MAI112B	530028	7526274	2400
MAI113	530344	7526477	2498
MAI113B	530543	7526476	2572
MAI114	534122	7526442	2447
MAI115	534015	7526170	2461
MAI115B	533970	7526021	2494
MAI116	529526	7526693	2367
MAI117	529335	7526867	2426
MAI117C	529102	7526886	2402
MAI118	528711	7527057	2422
MAI119	528766	7527626	2451
MAI120	528366	7527407	2586
MAI121	528441	7527777	2540
MAI122	529128	7527524	2510
MAI122B	529142	7527693	2492
MAI123	525690	7525789	1835
MAI123B	525597	7525929	1780
MAI124	524087	7526301	1630
MAI124B	523978	7526549	1620
MAI125	522740	7527189	1567
MAI126	521822	7527729	1490
MAI127	521609	7528388	1374
MAI127B	521913	7528240	1364
MAI128	534405	7523218	2481
MAI129	534218	7522902	2429
MAI130	533594	7523218	2463
MAI131	534033	7524544	2422
MAI132	533145	7525758	2541
MAI132C	532998	7525806	2543
MAI133	533826	7525241	2601
MAI134	533486	7523701	2546
MAI135	532943	7524231	2475
MAI136	532358	7524820	2418
MAI137	532003	7525081	2421
MAI138	531974	7526030	2531
MAI139	532436	7526051	2513
MAI140	532625	7525837	2598
MAI140B	532729	7525801	2590
MAI141	533838	7526836	2434

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Outcrops	Longitude	Latitude	Altitude (m)
MAI142	533641	7527213	2425
MAI143	533328	7526870	2509
MAI143B	533271	7526626	2546
MAI144	532917	7526818	2496
MAI144B	532953	7526883	2466
MAI145	533066	7526280	2475
MAI146	531090	7526658	2515
MAI146C	531240	7526768	2518
MAI146D	530940	7526610	2536
MAI147	531633	7526678	2468
MAI147B	531503	7526743	2470
MAI148	531259	7526021	2595
MAI149	530745	7526032	2562
MAI150	529550	7525200	2413
MAI150B	529821	7525301	2388
MAI151	530106	7525431	2475
MAI152	531497	7525361	2426
MAI153	528954	7526733	2333
MAI154	528283	7528436	2412
MAI155	528500	7529619	2190
MAI156	530616	7527650	2208
MAI156B	530679	7527436	2229
MAI157	530474	7527259	2256
MAI158	529937	7527077	2274
MAI159	527425	7530881	1815
MAI160	526868	7531390	1897
MAI161	526134	7532389	1883
MAI162	525653	7532685	1843
MAI163	524937	7532582	1738
MAI164	527091	7527334	2149
MAI165	523109	7529867	1955
MAI166	521965	7528801	1437
MAI167	517858	7529885	1157
MAI168	517203	7530729	969
MAI169	517827	7531005	1001
MAI170	519529	7530689	1111
MAI171	520087	7530727	1190
MAI172	520450	7530670	1257
MAI173	521586	7530739	1459

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Outcrops	Longitude	Latitude	Altitude (m)
MAI174	521032	7531004	1345
MAI174B	520754	7530854	1313
MAI175	520731	7528111	1401
MAI176	522851	7534275	1429
MAI177	522854	7531837	1510
MAI178	523029	7532258	1534
MAI178B	522866	7532237	1545
MAI178C	523006	7532408	1546
MAI179	522705	7532643	1577
MAI180	520599	7533361	1207
MAI181	519543	7532866	1135
MAI182	526084	7526628	1935
MAI182C	526016	7526458	1932
MAI183	528052	7524095	1619
MAI184	527750	7523698	1597
MAI185	527688	7524275	1524
MAI186	526923	7524298	1561
MAI187	526335	7524173	1562
MAI188	526820	7525951	2170
MAI189	526821	7525611	2135
MAI190	526882	7526564	2067
MAI191	533167	7517526	865
MAI192	533140	7517086	810
MAI193	528432	7520976	1090
MAI194	531558	7528338	1864
MAI195	533081	7528187	2009
MAI196	532268	7528064	1979
MAI197	531859	7528115	1928
MAI198	534251	7530569	2336
MAI199	534428	7530111	2485
MAI200	533225	7531065	1894
MAI201	536619	7526735	2339
MAI202	536682	7525628	2404
MAI203	537315	7525976	2302
MAI204	537628	7525482	2352
MAI205	537676	7526358	2356
MAI206	537800	7526962	2430
MAI207	538388	7525826	2572
MAI207B	538550	7525862	2614

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Outcrops	Longitude	Latitude	Altitude (m)
MAI208	538794	7525914	2582
MAI209	538402	7527615	1953
MAI210	539349	7524827	2361
MAI211	539793	7524997	2252
MAI212	540121	7524994	2221
MAI213	539097	7525452	2415
MAI214	535475	7527087	2527
MAI215	537270	7519161	1733
MAI215B	537048	7519412	1760
MAI216	536702	7519453	1773
MAI217	536857	7519975	1812
MAI218	539978	7516906	795
MAI219	524640	7527355	1675
MAI220	525282	7527525	1749
MAI221	529560	7529058	2289
MAI222	529276	7528733	2287
MAI222B	529361	7528787	2266
MAI222C	529133	7528687	2305
MAI223	528935	7528266	2340
MAI224	528638	7528157	2410
MAI225	519025	7529790	1352
MAI226	522922	7530354	1763
MAI227	522580	7530892	1526
MAI228	522372	7531398	1408
MAI229	523898	7532352	1595
MAI230	530632	7526863	2488
MAI231	532052	7526717	2455
MAI232	524195	7530998	1830
MAI233	523221	7530811	1570
Landmarks	Longitude	Latitude	Altitude
Agulhas Negras Peak	534842	7525036	2792 ¹
Aiuruoca River Bog	534261	7526938	2367
Aiuruoca Waterfall	534124	7527228	2355
Asa de Hermes Hill	534581	7525596	2600
Camelo's Rock	529784	7526183	2318
Colina Ridge	522146	7532348	1731
Maromba's Hill	538475	7525870	2619 ¹
Massena's Hill	530897	7526187	2609 ¹
Morro da Antena Hill	530621	7525401	2584

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Landmarks	Longitude	Latitude	Altitude
Morro do Couto Hill	531601	7524484	2680 ¹
Morro do Urubu Hill	534413	7521625	2270 ¹
Ovos da Galinha Boulders	534883	7526830	2466
Pedra Assentada Hill	534766	7522921	2453 ¹
Pedra do Altar Hill	533552	7525703	2665 ¹
Pedra do Picú Hill	523087	7529872	1970
Pedra do Sino Hill	534791	7526030	2670 ¹
Pedra Furada Hill	528370	7527406	2589 ¹
Prateleiras Hill	533955	7522898	2458
Preto River Bog	536495	7526660	2320
Serra Negra Hill	534462	7529964	2572 ¹
Três Picos Hill	542916	7519993	1675
Véu da Noiva Waterfall	539309	7519902	1194
Buildings and Sites	Longitude	Latitude	Altitude
5 Lagos Trail	531734	7526360	2447
Agua Branca Shelter	533069	7524470	2392
Carvoeiro Road ²	531603	7528123	1889
Colina Town	521844	7533772	1276
Engenho da Serra Town	521852	7528362	1333
Fazeda Velha Town	523112	7532137	1493
Flores' Highway ²	526547	7526978	1948
Garganta do Registro Pass	524605	7525480	1669 ¹
Hotel Vista Linda	542733	7517470	861
Marcão Station	530500	7525869	2436
Maromba's Station	539111	7519636	1102
Massena Shelter	535907	7521950	2190
Museum	540115	7517269	856
Park entrance	541936	7515888	614
Rancho Caído Camp	537597	7526148	2299
Rancho Caído Trail ²	537893	7527588	2073
Rebouças Shelter	533069	7524470	2392
Rui Braga Trail ²	536299	7520981	1946
Vargem Grande Town	528495	7531708	1748