

Table B1: Isotopic compositions of basaltic lava samples from Krafla and Theistareykir

Sample Name	Location	Eruption	Longitude (°W)	Latitude (°N)	¹⁴³ Nd/ ¹⁴⁴ Nd	ε _{Nd}	⁸⁷ Sr/ ⁸⁶ Sr	¹⁷⁶ Hf/ ¹⁷⁷ Hf	ε _{Hf}	²⁰⁶ Pb/ ²⁰⁴ Pb	²⁰⁷ Pb/ ²⁰⁴ Pb	²⁰⁸ Pb/ ²⁰⁴ Pb
RECENT LAVAS												
Krafla 1	Krafla	1984	16° 47.123'	65° 43.378'	0.513037	7.79	0.7032340	0.283199	15.10	18.302	15.465	38.027
Krafla 2	Krafla	1984	16° 47.149'	65° 43.375'	0.513028	7.61	0.7032390	0.283200	15.14	18.297	15.457	38.010
Krafla 3	Krafla	1724	16° 56.219'	65° 39.229'	0.513025	7.54	0.7033180	0.283199	15.10	18.292	15.458	38.007
Krafla 4	Krafla	1724	16° 56.275'	65° 39.219'	0.513035	7.75	0.7032300	0.283195	14.96	18.290	15.456	38.002
EARLY POSTGLACIAL LAVAS												
LTLV-09E	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513030	7.64	0.7031228	0.283221	15.88	18.096	15.434	37.796
LTLV-09D	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513041	7.86	0.7031102	0.283217	15.74	18.112	15.447	37.823
LTLV-09C	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513036	7.76	0.7031156	0.283218	15.77	18.091	15.437	37.802
LTLV-09B	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513015	7.35	0.7031231	0.283221	15.88	18.093	15.432	37.790
LTLV-09A	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513038	7.80	0.7031157	0.283213	15.60	18.096	15.433	37.791
LTLV-04	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513040	7.84	0.7031258	0.283214	15.63	18.102	15.442	37.813
LTLV-06	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513041	7.86	0.7031051	0.283219	15.81	18.092	15.432	37.791
LTLV-05	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513036	7.76	0.7031188	0.283220	15.84	18.093	15.435	37.797
LTLV-10	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513027	7.60	0.7031364	0.283220	15.84	18.083	15.433	37.784
LTLV-13	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513035	7.74	0.7031610	0.283218	15.77	18.072	15.435	37.799
LTLV-11	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513035	7.74	0.7031180	0.283225	16.02	18.102	15.445	37.813
LTLV-12	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513047	7.98	0.7031294	0.283216	15.70	18.072	15.437	37.786
LTLV-03	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513050	8.04	0.7031396	0.283219	15.81	18.082	15.448	37.813
LTLV-02	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513013	7.31	0.7031031	0.283213	15.60	18.083	15.440	37.804
LTLV-01	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513043	7.90	0.7031099	0.283218	15.77	18.065	15.438	37.781
LTLV-01B	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513024	7.53	0.7031100	0.283216	15.70	18.077	15.437	37.789
LTLV-07	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513030	7.65	0.7031317	0.283216	15.70	18.082	15.446	37.807
LTLV-08	Theistareykir	Storavitihraun	16° 50.497'	65° 52.505'	0.513023	7.51	0.7031267	0.283220	15.84	18.080	15.436	37.787
GLACIAL LAVAS												
KRMT KK22	Krafla	Krafla Mountain	16° 44' 00"	65° 42' 30"	0.513006	7.18	0.7032241	0.283187	14.69	18.316	15.497	38.052
KRMT KK21	Krafla	Krafla Mountain	16° 44' 00"	65° 42' 30"	0.512990	6.87	0.7032241	0.283184	14.56			
SAND KK19	Krafla	Sandabotnafjal	16° 44' 54"	65° 41' 30"	0.513064	8.31	0.7031268	0.283207	15.38			
SAND KK20	Krafla	Sandabotnafjal	16° 45' 00"	65° 41' 30"	0.513046	7.96	0.7031574	0.283205	15.31	18.393	15.521	38.173
NAMA KK142	Krafla	Namafjall	16° 48' 00"	65° 40' 00"	0.513036	7.76	0.7031807	0.283196	15.01	18.448	15.539	38.255
NAMA KK143	Krafla	Namafjall	16° 48' 49"	65° 40' 04"	0.513062	8.27	0.7031607	0.283217	15.73			
GAES 9463	Theistareykir	Gaesafjoll	16° 55' 59"	65° 45' 42"	0.513024	7.54	0.7032456	0.283170	14.07	18.382	15.480	38.136
GAES KK30	Theistareykir	Gaesafjoll	16° 54' 18"	65° 46' 16"	0.512982	6.71	0.7032917	0.283174	14.20	18.474	15.499	38.268
GAES 9363	Theistareykir	Gaesafjoll	16° 55' 00"	65° 46' 24"	0.513015	7.35	0.7032878	0.283168	13.99	18.378	15.484	38.160
GAES 9362	Theistareykir	Gaesafjoll	16° 55' 00"	65° 47' 30"	0.513058	8.19	0.7032957	0.283171	14.09	18.464	15.491	38.225
GAES KK151	Theistareykir	Gaesafjoll	16° 53' 53"	65° 46' 08"	0.513006	7.18	0.7032473	0.283171	14.11	18.510	15.500	38.289
GAES 9491	Theistareykir	Gaesafjoll	16° 56' 00"	65° 45' 42"	0.513041	7.86	0.7033232	0.283175	14.25	18.406	15.479	38.155
GAES 9364	Theistareykir	Gaesafjoll	16° 51' 00"	65° 46' 24"	0.513032	7.69	0.7032342	0.283168	14.01	18.430	15.473	38.160
THRI 9421	Theistareykir	Thrihyrningur	16° 50' 00"	65° 50' 18"	0.513019	7.43	0.7032558	0.283160	13.71	18.340	15.475	38.061
THRI 9420A	Theistareykir	Thrihyrningur	16° 50' 00"	65° 50' 18"	0.513019	7.43	0.7032573	0.283169	14.03	18.371	15.464	38.078
THRI 94100	Theistareykir	Thrihyrningur	16° 50' 00"	65° 50' 18"	0.513016	7.37	0.7032875	0.283163	13.81	18.348	15.467	38.060
THOR 9424A	Theistareykir	Thorunnarfjoll	16° 55' 00"	65° 52' 42"	0.513024	7.52	0.7032434	0.283177	14.33	18.424	15.474	38.156
THOR 9454	Theistareykir	Thorunnarfjoll	16° 51' 23"	65° 50' 31"	0.513028	7.61	0.7032599	0.283173	14.18	18.434	15.475	38.165
THOR 9455	Theistareykir	Thorunnarfjoll	16° 51' 23"	65° 50' 31"	0.513019	7.43	0.7032733	0.283176	14.28	18.433	15.482	38.176
BAEJ 9320	Theistareykir	Baejarfjall	16° 56' 00"	65° 51' 18"	0.513014	7.33	0.7032773	0.283187	14.68	18.363	15.475	38.095
BAEJ 9319	Theistareykir	Baejarfjall	16° 55' 00"	65° 51' 30"	0.513020	7.44	0.7033165	0.283187	14.68	18.378	15.475	38.109
EINB 9303	Theistareykir	Einbui	16° 52' 00"	65° 49' 30"	0.512999	7.04	0.7031438	0.283186	14.63	18.121	15.442	37.836
EINB 9302	Theistareykir	Einbui	16° 52' 00"	65° 49' 30"	0.512990	6.87	0.7031547	0.283182	14.51	18.130	15.451	37.866
EINB 9301	Theistareykir	Einbui	16° 52' 00"	65° 49' 30"	0.513040	7.84	0.7031769	0.283189	14.74	18.105	15.447	37.829
EILI 9343	Theistareykir	Eilifur	16° 37' 19"	65° 48' 08"	0.513041	7.86	0.7032570	0.283166	13.94	18.317	15.461	38.036
KETI 9350	Theistareykir	Ketilfjall/shali	16° 55' 34"	65° 52' 44"	0.513036	7.76	0.7031311	0.283190	14.77	18.148	15.436	37.838
KETI 94110	Theistareykir	Ketilfjall/shali	16° 54' 23"	65° 54' 14"	0.513016	7.37	0.7031299	0.283193	14.90	18.160	15.441	37.860