

Sample	SiO2	Na2O	K2O	Age	Tectonic setting
16360T762518A	54.93	3.33	3.03	Quaternary	Subduction zone
16360T762519B	54.74	3.34	3.4	Quaternary	Subduction zone
16360T762519B2	55.75	3.12	3.18	Quaternary	Subduction zone
16361T762520A	56.44	3.51	3.4	Quaternary	Subduction zone
16365T75419B	57.8	3.36	4.33	Quaternary	Subduction zone
16365T75419F	58.01	3.36	3.94	Quaternary	Subduction zone
125300	49.91	2.51	2.07	Quaternary	Subduction zone
125302	49.77	2.53	1.96	Quaternary	Subduction zone
125303	50.04	2.64	2.22	Quaternary	Subduction zone
125304	49.9	2.52	2.14	Quaternary	Subduction zone
125305	50.01	2.59	2.11	Quaternary	Subduction zone
75080	47.52	2.26	2.22	Recent	Subduction zone
75081	50.75	3.79	3.81	Recent	Subduction zone
75082	51.17	2.9	2.91	Recent	Subduction zone
75083	51.82	3.28	3.4	Recent	Subduction zone
75084	52.45	2.83	5.97	Recent	Subduction zone
75085	52.83	5.43	5.63	Recent	Subduction zone
75086	53.84	3.18	6.69	Recent	Subduction zone
75087	54.56	3.34	5.15	Recent	Subduction zone
75088	54.6	2.91	5.43	Recent	Subduction zone
M30	51.74	3.21	4.32	Quaternary	Extension above subduction-m
M52	49.73	2.95	2.75	Quaternary	Extension above subduction-m
M534	48.11	2.38	1.9	Quaternary	Extension above subduction-m
R7843	52.5	3.48	2.39	Permian	Subduction-related
R8595	50.83	3.51	2.31	Permian	Subduction-related
R8068	54.22	3.08	2.57	Permian	Subduction-related
R8600	54.8	3.31	3.97	Permian	Subduction-related
R8606	54.4	3.73	5.14	Permian	Subduction-related
R8607	60.64	4.29	5.22	Permian	Subduction-related
R8071	50.63	4.05	2.8	Permian	Subduction-related
R8073	52.01	2.85	4.35	Permian	Subduction-related
SB131	50.6	2.63	2.18	Permian	Subduction-related
SB174	53.46	2.98	3.55	Permian	Subduction-related
SB201	51.61	3.46	2.31	Permian	Subduction-related
SB264	51.83	4.03	2.99	Permian	Subduction-related
SB280	53.43	4.19	3.48	Permian	Subduction-related
SB281	54.58	4.56	4.38	Permian	Subduction-related
94472	50.35	3.46	4.4	Early Jurassic (190 Ma)	Within plate

77792	54.62	2.84	3.39	Quaternary	Subduction zone
77797	57.06	4.01	5.61	Quaternary	Subduction zone
91256	55.38	3.48	3.65	Quaternary	Subduction zone
23144GS7	52.32	3.08	2.81	Quaternary	Subduction zone
17577GS9357	53.12	3.04	4.86	Quaternary	Subduction zone
FIJVITL17S178E	48.81	2.66	4.69	Oligocene	Subduction zone
FIJVITL17S178E	50.53	2.4	2.85	Oligocene	Subduction zone
FIJVITL17S178E	50.06	2.24	3.9	Oligocene	Subduction zone
85592	57.94	3.45	2.94	Quaternary	Subduction zone
85593	51.89	2.73	2.65	Quaternary	Subduction zone
85598	57.38	3.43	3.01	Quaternary	Subduction zone
85599	50.24	2.31	3.54	Quaternary	Subduction zone
KAM	51.08	1.8	3.75	Quaternary	Subduction zone
KAM	49.82	0.48	6.05	Quaternary	Subduction zone
KAM	58.3	2.17	3.77	Quaternary	Subduction zone
KAM	48.64	2.55	3.98	Quaternary	Subduction zone
KAM	55.44	2.91	4.63	Quaternary	Subduction zone
121985	54.3	3.71	3.62	Quaternary	Subduction zone
121986	55.2	4.82	4.47	Quaternary	Subduction zone
121987	52.1	2.97	2.76	Quaternary	Subduction zone
121988	54.4	3.61	3.31	Quaternary	Subduction zone
121989	61.6	2.82	5.03	Quaternary	Subduction zone
SV9903	55.94	5.27	4.62	Eocene	Within plate
SV9804	49.9	2.66	2.32	Eocene	Within plate
SV9807	53.81	3.62	3.12	Eocene	Within plate
SV9820	52.66	3.71	4.69	Eocene	Within plate
SV9916	62.94	5.91	5.63	Eocene	Within plate
SV9909	57.97	5.71	4.83	Eocene	Within plate
SV9937	60.98	5.95	4.47	Eocene	Within plate
106685	49.09	2.02	1.79	Quaternary	Subduction zone
106686	51.29	2.44	2.54	Quaternary	Subduction zone
106689	50.3	2.5	2.03	Quaternary	Subduction zone
106690	50.68	2.43	2	Quaternary	Subduction zone
106691	50.84	2.31	1.99	Quaternary	Subduction zone
106692	50.9	2.5	2.42	Quaternary	Subduction zone
106693	51.55	2.21	2.09	Quaternary	Subduction zone
106694	51.55	3.02	2.83	Quaternary	Subduction zone
106695	51.71	2.47	2.18	Quaternary	Subduction zone
106696	51.9	2.81	2.53	Quaternary	Subduction zone

106698	52.54	2.85	2.52	Quaternary	Subduction zone
106699	52.54	3.15	3.02	Quaternary	Subduction zone
106700	52.89	3.22	2.59	Quaternary	Subduction zone
106701	52.9	3.17	2.92	Quaternary	Subduction zone
106702	52.94	2.89	2.61	Quaternary	Subduction zone
106704	53.11	2.89	2.65	Quaternary	Subduction zone
106705	53.24	2.9	2.52	Quaternary	Subduction zone
106706	53.29	2.88	2.46	Quaternary	Subduction zone
106707	53.41	3.15	3.04	Quaternary	Subduction zone
106708	53.59	3.06	2.69	Quaternary	Subduction zone
106709	53.62	2.98	2.69	Quaternary	Subduction zone
106710	53.91	3	3.07	Quaternary	Subduction zone
106712	54.01	3.14	2.92	Quaternary	Subduction zone
106713	54.03	2.98	2.78	Quaternary	Subduction zone
106716	54.13	3.09	2.81	Quaternary	Subduction zone
106717	54.24	3.18	2.93	Quaternary	Subduction zone
106718	54.3	3.22	2.78	Quaternary	Subduction zone
106719	54.92	3.68	3.15	Quaternary	Subduction zone
106720	55.41	3.18	3.07	Quaternary	Subduction zone
106721	56.2	3.26	3.69	Quaternary	Subduction zone
106722	57.07	3.56	3.6	Quaternary	Subduction zone
106723	57.98	3.59	3.64	Quaternary	Subduction zone
106724	58.08	3.35	3.66	Quaternary	Subduction zone
106726	58.68	3.68	3.78	Quaternary	Subduction zone
106727	58.73	3.6	3.93	Quaternary	Subduction zone
106728	58.77	3.76	3.93	Quaternary	Subduction zone
106731	59.77	3.64	3.7	Quaternary	Subduction zone
106732	60.37	3.65	3.65	Quaternary	Subduction zone
106733	60.82	3.77	3.62	Quaternary	Subduction zone
106734	60.86	3.75	3.68	Quaternary	Subduction zone
106736	61.85	3.92	3.98	Quaternary	Subduction zone
106737	62.82	3.98	4.09	Quaternary	Subduction zone
12640STR 27	53.05	2.89	2.68	Quaternary	Subduction zone
12640STR90	51.08	2.31	2.34	Quaternary	Subduction zone
12640STR109	55.38	3.28	3.28	Quaternary	Subduction zone
12640STR153	50.84	2.64	2.43	Quaternary	Subduction zone
12640STR202	49.62	2.42	1.98	Quaternary	Subduction zone
132509	52.28	2.85	2.58	Quaternary	Subduction zone
132511	53.47	3.15	3.07	Quaternary	Subduction zone

132515	58.3	3.59	3.73	Quaternary	Subduction zone
12640STR 96	54.05	2.98	2.73	Quaternary	Subduction zone
61864	50.11	3.23	2.08	Miocene (23-25 Ma)	Within plate
61867	50.86	3.47	2.14	Miocene (23-25 Ma)	Within plate
61869	47.66	2.26	1.7	Miocene (23-25 Ma)	Within plate
61876	48.64	2.8	2.19	Miocene (23-25 Ma)	Within plate
120805LT360	51.95	3.32	3.12	Miocene (23-25 Ma)	Within plate
UTDHON40114	57.4	2.68	3.89	Miocene	Within plate
UTDHON40114	58.83	2.42	3.39	Miocene	Within plate
UTDHON40114	57.9	2.69	3.13	Miocene	Within plate
UTDHON40114	57.17	2.77	3.92	Miocene	Within plate
UTDHON40114	55.57	2.72	3.41	Miocene	Within plate
UTDHON40114	57.52	2.55	3.23	Miocene	Within plate
UTDHON40114	56.73	2.97	3.56	Miocene	Within plate
UTDHON40114	58.27	2.55	3.34	Miocene	Within plate
UTDHON40114	57.28	2.45	3.43	Miocene	Within plate
UTDHON40 114	56.47	2.52	3.46	Miocene	Within plate
UTDHON40 114	58.04	2.92	3.6	Miocene	Within plate
98386	50.21	2.55	2.54	Quaternary	Subduction zone
98388	50.73	2.8	2.01	Quaternary	Subduction zone
98394	49.34	2.25	2.3	Quaternary	Subduction zone
98395	49.53	2.24	2.39	Quaternary	Subduction zone
98634	52.64	2.97	3.4	Quaternary	Subduction zone
98635	51.94	2.86	2.8	Quaternary	Subduction zone
98636	51.94	3	2.9	Quaternary	Subduction zone
98637	51.85	2.91	2.91	Quaternary	Subduction zone
98638	51.95	2.88	2.91	Quaternary	Subduction zone
98639	51.86	2.92	2.91	Quaternary	Subduction zone
98771	51.84	2.26	4.02	Quaternary	Subduction zone
98773	51.65	2.35	3.92	Quaternary	Subduction zone
98774	51.17	2.41	4.29	Quaternary	Subduction zone
98776	51.09	2.62	3.54	Quaternary	Subduction zone
98777	51.34	2.58	3.73	Quaternary	Subduction zone
98778	51.08	2.51	3.69	Quaternary	Subduction zone
98779	51.35	2.46	3.64	Quaternary	Subduction zone
98780	51.34	2.56	3.81	Quaternary	Subduction zone
98781	51.53	2.37	3.94	Quaternary	Subduction zone
98782	51.36	2.57	3.79	Quaternary	Subduction zone
98783	51.45	2.62	3.48	Quaternary	Subduction zone

98784	51.41	2.68	3.75	Quaternary	Subduction zone
98785	51.47	2.61	3.59	Quaternary	Subduction zone
98786	52.69	2.72	3.76	Quaternary	Subduction zone
98787	52.69	2.67	3.85	Quaternary	Subduction zone
98788	53.42	2.64	4.56	Quaternary	Subduction zone
98789	52.29	2.69	3.82	Quaternary	Subduction zone
98790	53.08	2.94	4.67	Quaternary	Subduction zone
98791	52.69	2.91	4.6	Quaternary	Subduction zone
98792	53.49	2.88	4.66	Quaternary	Subduction zone
98793	53.77	2.78	4.77	Quaternary	Subduction zone
98794	53.67	2.79	4.8	Quaternary	Subduction zone
98795	51.55	2.19	4.04	Quaternary	Subduction zone
98796	51.61	2.66	3.57	Quaternary	Subduction zone
98798	51.81	2.35	3.87	Quaternary	Subduction zone
98799	51.57	2.7	3.52	Quaternary	Subduction zone
98800	51.7	2.56	3.61	Quaternary	Subduction zone
98801	51.38	2.37	3.98	Quaternary	Subduction zone
98802	53.77	3	4.38	Quaternary	Subduction zone
98803	53.64	3.01	4.36	Quaternary	Subduction zone
98804	53.66	3.02	4.41	Quaternary	Subduction zone
NGAHAG06S144 E	54.81	2.26	2.71	Tertiary	Subduction zone
NGA05S146E-A	50.99	2.95	3.16	Tertiary	Subduction zone
NGA05S146E-A	53.55	3.65	2.86	Tertiary	Subduction zone
NGA06S146E-B	51.48	3.57	2.37	Tertiary	Subduction zone
NGA05S146E-B	51.17	2.9	2.32	Tertiary	Subduction zone
NGA05S146E-C	52.99	3.57	3.21	Tertiary	Subduction zone
NGA06S146E-C	48.34	3.55	2.51	Tertiary	Subduction zone
NGA06S146E-D	51.1	2.99	2.3	Tertiary	Subduction zone
NGAHAG06S144 E	51.74	2.46	2.32	Tertiary	Subduction zone
NGA06S147E	55.43	2.9	4.94	Tertiary	Subduction zone
20286V 62	53	3.6	3.6	Quaternary	Subduction zone
39034	59.1	3.5	4.4	Miocene (15-5 Ma)	Subduction zone
39035	59.9	3.52	4.62	Miocene (15-5 Ma)	Subduction zone
NGA-A	48.6	3.05	2.55	Tertiary	Subduction zone
NGA-B	51.5	4.05	2.15	Tertiary	Subduction zone
NGA-C	47.3	1.5	4.05	Tertiary	Subduction zone
NGA-D	47.9	2.05	3.15	Tertiary	Subduction zone

NGA-E	49	3.05	3.05	Tertiary	Subduction zone
NGA-F	50.3	3.65	2.7	Tertiary	Subduction zone
NGA-G	47.2	2.1	3.85	Tertiary	Subduction zone
SOCMOOR17S1	56.42	4.58	4.81	Pleistocene	Subduction zone
122345	50.5	2.65	2.35	Tertiary	Subduction zone
122346	52.2	2.85	2.35	Tertiary	Subduction zone
122351	51.2	3.15	2.35	Tertiary	Subduction zone
115475	51.09	3.06	2.85	Quaternary	Subduction zone
115476	51.94	2.95	2.38	Quaternary	Subduction zone
115477	52.41	3.13	2.21	Quaternary	Subduction zone
115478	52.74	3.05	2.7	Quaternary	Subduction zone
NGAGIL06S144E	51.94	2.95	2.38	Tertiary	Subduction zone
NGAHAG06S144 E	53.74	2.38	2.57	Tertiary	Subduction zone
NGAHAG06S144 E	52.41	3.13	2.21	Tertiary	Subduction zone
NGAIAL06S144E	52.74	3.05	2.7	Tertiary	Subduction zone
NGAKAR07S145 E	51.09	3.06	2.85	Tertiary	Subduction zone
76082	50.56	2.74	4.7	Recent	Subduction zone
76084	51.56	3.08	4.17	Recent	Subduction zone
76085	51.77	3.41	5.06	Recent	Subduction zone
76087	52.73	3	6.13	Recent	Subduction zone
76088	52.99	3.31	4.19	Recent	Subduction zone
76089	53.04	3.45	3.44	Recent	Subduction zone
76090	53.56	3.83	3.83	Recent	Subduction zone
TSI	54.98	3.89	4.54	Oligocene	Subduction zone
TS4	54.33	4.3	4.9	Oligocene	Subduction zone
TS5	56.44	4.23	4.78	Oligocene	Subduction zone
TS14	51.29	3.69	4.7	Oligocene	Subduction zone
TS20	52.35	2.81	3.15	Oligocene	Subduction zone
TS22	55.12	4.18	4.63	Oligocene	Subduction zone
TS26	52.99	3.31	4.19	Oligocene	Subduction zone
TS28	53.56	3.83	3.83	Oligocene	Subduction zone
TS32	50.56	2.74	4.7	Oligocene	Subduction zone
TS37	52.73	3	6.13	Oligocene	Subduction zone
TS44	53.04	3.45	3.44	Oligocene	Subduction zone
TS46	51.56	3.08	4.17	Oligocene	Subduction zone
TS54	51.77	3.41	5.06	Oligocene	Subduction zone

TS55	48.44	1.45	2.18	Oligocene	Subduction zone
TS61	48.71	1.38	2.22	Oligocene	Subduction zone
TS66	48.2	1.5	2.61	Oligocene	Subduction zone
TS67	49.55	2.17	3.18	Oligocene	Subduction zone
TS68	47.99	1.33	2.74	Oligocene	Subduction zone
TS70	49.5	2.29	2.42	Oligocene	Subduction zone
TS78	48.89	1.81	2.08	Oligocene	Subduction zone
TS82	48.08	2	1.8	Oligocene	Subduction zone
87441	51.4	2.95	5.05	Recent	Subduction zone
87444	53.73	3.21	4.23	Recent	Subduction zone
87450	57.05	4.35	4.52	Recent	Subduction zone
87456	54.54	3.08	5.18	Recent	Subduction zone
BLBELK46 111	53.9	2.4	3.1	Upper Cretaceous	Within plate
D53E	56.27	3.75	4.15	Miocene-Recent	Subduction zone
D4851	53.51	3.38	2.59	Miocene-Recent	Subduction zone
D4852	52.92	3.18	1.94	Miocene-Recent	Subduction zone
D4853	55.36	4.2	2.98	Miocene-Recent	Subduction zone
D4854	51.83	3.45	2.1	Miocene-Recent	Subduction zone
D4861	55.12	4.06	2.87	Miocene-Recent	Subduction zone
D4932	52.8	3.56	2.13	Miocene-Recent	Subduction zone
D4962	56.61	4.24	3.55	Miocene-Recent	Subduction zone
D5216A	50.76	3.11	2.57	Miocene-Recent	Subduction zone
D4855A	52.25	3.57	2.22	Miocene-Recent	Subduction zone
IJ2C	59.83	5.91	4.09	Miocene-Recent	Subduction zone
IJ6B	59.84	6.08	4.18	Miocene-Recent	Subduction zone
IJ11	59.79	5.82	4.04	Miocene-Recent	Subduction zone
IJ12	59.21	5.97	3.86	Miocene-Recent	Subduction zone
61702	51.61	3.58	3.52	Tertiary	Subduction zone
61707	53.76	3.91	3.78	Tertiary	Subduction zone
88347	50.49	2.82	2.24	Recent	Subduction zone
88349	51.87	3.1	2.64	Recent	Subduction zone
88350	51.92	3.04	2.47	Recent	Subduction zone

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Nagaoda, Oki Islands, Dogo Island, Southwestern Honshu Arc	Xu (1988)