

Global Volcanism Program

Volcanoes of the World » Large Holocene Eruptions



Large Holocene Eruptions

The following list includes known large-volume Holocene explosive eruptions with a [Volcanic Explosivity Index \(VEI\)](#) of 4 or larger. Note the dating method codes before the dates (explained using a cursor rollover), and pay particular attention to the distinction between corrected (G) and uncorrected (C) radiocarbon dates. Also be aware of the uncertainties of the dates themselves (including those with a "?" indicating an unknown, but potentially large date uncertainty). "P" and "C" VEI codes refer to plinian or caldera-forming eruptions, respectively, of large, but unknown magnitudes. See "[Eruption Data Criteria](#)" for further explanation of the VEI and other codes and [About "Volcanoes of the World"](#) for acknowledgments and citation guidelines.

Volcano Name	Volcanic Subregion	Date (Reverse Order)	VEI
TAUPO	New Zealand	G 9850 BC (?)	5
TONGARIRO	New Zealand	G 9650 BC (?)	5
KHANGAR	Kamchatka Peninsula (Russia)	G 9500 BC ± 300 years	P
TONGARIRO	New Zealand	G 9450 BC (?)	5
TAUPO	New Zealand	G 9450 BC (?)	4+
TAUPO	New Zealand	G 9430 BC (?)	4
TONGARIRO	New Zealand	T 9350 BC (?)	5
KUJU	Kyushu (Japan)	G 9160 BC ± 1000 years	4
ASKJA	Northeastern Iceland	G 9130 BC ± 1000 years	5
PELÉE	West Indies	G 8210 BC ± 200 years	4?
KIZIMEN	Kamchatka Peninsula (Russia)	T 8050 BC (?)	5
VESTMANNAEYJAR	Southern Iceland	T 8050 BC (?)	4
TAUPO	New Zealand	G 8000 BC (?)	5
KSUDACH	Kamchatka Peninsula (Russia)	G 7900 BC (?)	5
RUAPEHU	New Zealand	C 7840 BC (in or before)	4
TOLIMA, NEVADO DEL	Colombia	C 7800 BC ± 300 years	P
TUNGURAHUA	Ecuador	C 7750 BC (?)	4
SOCHE	Ecuador	C 7720 BC ± 30 years	5?
SHASTA	California (USA)	C 7650 BC ± 100 years	4
ELOVSKY	Kamchatka Peninsula (Russia)	T 7550 BC ± 500 years	4
TOWADA	Honshu (Japan)	T 7550 BC (?)	5

<u>PAKA</u>	Eastern Africa	R 7550 BC ± 1000 years	C
<u>OKATAINA</u>	New Zealand	G 7550 BC (?)	5
<u>LVINAYA PAST</u>	Kuril Islands	C 7480 BC ± 50 years	6+
<u>PINATUBO</u>	Luzon (Philippines)	G 7460 BC ± 150 years	6?
<u>USHISHUR</u>	Kuril Islands	C 7450 BC ± 50 years	C
<u>CHAITEN</u>	Southern Chile	C 7420 BC ± 75 years	C
<u>FISHER</u>	Aleutian Islands	C 7420 BC ± 200 years	6?
<u>CHICHINAUTZIN</u>	México	G 7370 BC ± 300 years	4
<u>ULREUNG</u>	Korea	C 7350 BC (?)	6
<u>AKITA-KOMAGA-TAKE</u>	Honshu (Japan)	T 7300 BC ± 300 years	4
<u>SEGUAM</u>	Aleutian Islands	R 7300 BC ± 1000 years	5?
<u>POPOCATEPETL</u>	México	C 7150 BC (?)	P
<u>SAKURA-JIMA</u>	Kyushu (Japan)	C 7150 BC (?)	4
<u>BURNEY, MONTE</u>	Southern Chile	G 7140 BC ± 200 years	P
<u>KARKAR</u>	Northeast of New Guinea	C 7140 BC ± 150 years	C
<u>ZHELTOVSKY</u>	Kamchatka Peninsula (Russia)	T 7050 BC ± 1000 years	5
<u>ORIZABA, PICO DE</u>	México	C 7030 BC ± 50 years	4
<u>SHIKOTSU</u>	Hokkaido (Japan)	C 6950 BC (?)	5
<u>LLAIMA</u>	Central Chile	C 6880 BC ± 75 years	5
<u>ORIZABA, PICO DE</u>	México	C 6710 BC ± 150 years	5?
<u>VILLARRICA</u>	Central Chile	C 6690 BC (?)	P
<u>CAMPI FLEGREI</u>	Italy	C 6650 BC ± 100 years	4
<u>TOWADA</u>	Honshu (Japan)	C 6650 BC ± 300 years	5?
<u>PELÉE</u>	West Indies	G 6610 BC ± 150 years	4?
<u>KARYMSKY</u>	Kamchatka Peninsula (Russia)	G 6600 BC (?)	6
<u>KURILE LAKE</u>	Kamchatka Peninsula (Russia)	G 6440 BC ± 25 years	7
<u>KIZIMEN</u>	Kamchatka Peninsula (Russia)	C 6400 BC ± 50 years	5
<u>AKITA-KOMAGA-TAKE</u>	Honshu (Japan)	T 6400 BC ± 500 years	4
<u>OKMOK</u>	Aleutian Islands	C 6310 BC ± 500 years	P
<u>PELÉE</u>	West Indies	G 6220 BC ± 200 years	P
<u>SAKURA-JIMA</u>	Kyushu (Japan)	C 6200 BC ± 1000 years	6
<u>OKATAINA</u>	New Zealand	G 6150 BC (?)	5
<u>MAKUSHIN</u>	Aleutian Islands	C 6100 BC ± 50 years	5
<u>MEIDOB VOLC FIELD</u>	Northern Africa	N 6050 BC ± 1000 years	P
<u>MENENGAI</u>	Eastern Africa	C 6050 BC (?)	6

<u>BARVA</u>	Costa Rica	T 6050 BC ± 1000 years	P
<u>KRASHENINNIKOV</u>	Kamchatka Peninsula (Russia)	C 6000 BC ± 50 years	4
<u>QUILL, THE</u>	West Indies	C 5990 BC (?)	P
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	G 5980 BC ± 100 years	5+
<u>VESUVIUS</u>	Italy	C 5960 BC ± 100 years	5
<u>ROMERAL</u>	Colombia	C 5950 BC ± 500 years	P
<u>MERU</u>	Eastern Africa	C 5850 BC (?)	C
<u>KRASHENINNIKOV</u>	Kamchatka Peninsula (Russia)	C 5800 BC ± 50 years	4
<u>KHANGAR</u>	Kamchatka Peninsula (Russia)	G 5700 BC ± 16 years	6
<u>ILYINSKY</u>	Kamchatka Peninsula (Russia)	T 5700 BC ± 50 years	C
<u>CRATER LAKE</u>	Oregon (USA)	I 5677 BC ± 150 years Oct 15 ± 45 days	7
<u>MIYAKE-JIMA</u>	Izu Islands (Japan)	T 5550 BC ± 500 years	4
<u>TAO-RUSYR CALDERA</u>	Kuril Islands	C 5550 BC ± 75 years	6
<u>PELÉE</u>	West Indies	G 5500 BC ± 200 years	P
<u>ICHINSKY</u>	Kamchatka Peninsula (Russia)	T 5400 BC (?)	5
<u>ANIACHAK</u>	Alaska Peninsula	T 5250 BC ± 1000 years	6?
<u>KSUDACH</u>	Kamchatka Peninsula (Russia)	G 5200 BC (?)	5
<u>TAVUI</u>	New Britain	N 5150 BC ± 1000 years	5
<u>POPOCATEPETL</u>	México	C 5150 BC (?)	P
<u>CRATER LAKE</u>	Oregon (USA)	C 5070 BC ± 50 years	6
<u>ARENAL</u>	Costa Rica	G 5060 BC ± 150 years	4?
<u>HEKLA</u>	Southern Iceland	G 5050 BC (?)	5
<u>ILIAMNA</u>	Southwestern Alaska	C 5050 BC (?)	P
<u>TOWADA</u>	Honshu (Japan)	T 5050 BC (?)	4
<u>KSUDACH</u>	Kamchatka Peninsula (Russia)	G 4900 BC (?)	5+
<u>MASHU</u>	Hokkaido (Japan)	C 4880 BC ± 200 years	6
<u>HUDSON, CERRO</u>	Southern Chile	C 4750 BC (?)	6
<u>TAUPO</u>	New Zealand	G 4700 BC (?)	4
<u>MASAYA</u>	Nicaragua	T 4550 BC (?)	5
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	G 4550 BC ± 200 years	4
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	G 4460 BC ± 100 years	4
<u>KIZIMEN</u>	Kamchatka Peninsula (Russia)	T 4450 BC (?)	4
<u>MAYOR ISLAND</u>	New Zealand	C 4390 BC ± 200 years	5
<u>MACAULEY ISLAND</u>	Kermadec Islands	C 4360 BC ± 200 years	6?
<u>KIKAI</u>	Ryukyu Islands (Japan)	C 4350 BC (?)	7

<u>KIRISHIMA</u>	Kyushu (Japan)	C 4350 BC (?)	4
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	G 4340 BC ± 75 years	5
<u>BRAVO, CERRO</u>	Colombia	C 4280 BC ± 150 years	4
<u>APOYEQUE</u>	Nicaragua	C 4160 BC ± 30 years	5
<u>MEIDOB VOLC FIELD</u>	Northern Africa	T 4150 BC ± 1000 years	P
<u>TAUPO</u>	New Zealand	G 4100 BC (?)	4
<u>KANAGA</u>	Aleutian Islands	C 4050 BC (?)	C
<u>ARENAL</u>	Costa Rica	T 3900 BC (?)	4
<u>KAGUYAK</u>	Alaska Peninsula	C 3850 BC (?)	5?
<u>PELÉE</u>	West Indies	C 3820 BC (?)	P
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	G 3790 BC ± 100 years	4
<u>KUJU</u>	Kyushu (Japan)	G 3780 BC ± 500 years	4
<u>PAGO</u>	New Britain	C 3680 BC ± 100 years	6?
<u>OKATAINA</u>	New Zealand	G 3650 BC (?)	5
<u>MAKUSHIN</u>	Aleutian Islands	T 3650 BC ± 1000 years	P
<u>TAAL</u>	Luzon (Philippines)	C 3580 BC ± 200 years	6
<u>SAKURA-JIMA</u>	Kyushu (Japan)	C 3550 BC ± 500 years	4
<u>PINATUBO</u>	Luzon (Philippines)	G 3550 BC (?)	6
<u>PELÉE</u>	West Indies	T 3500 BC ± 200 years	P
<u>TOWADA</u>	Honshu (Japan)	C 3440 BC ± 150 years	5+
<u>PELÉE</u>	West Indies	G 3430 BC ± 75 years	4?
<u>TAUPO</u>	New Zealand	G 3400 BC (?)	4
<u>ARENAL</u>	Costa Rica	T 3350 BC (?)	4
<u>TAUPO</u>	New Zealand	G 3300 BC (?)	4
<u>KARYMSKY</u>	Kamchatka Peninsula (Russia)	G 3200 BC (?)	4
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	G 3200 BC ± 150 years	5
<u>FISHER</u>	Aleutian Islands	C 3170 BC ± 75 years	5
<u>SETE CIDADES</u>	Azores and Madeira	T 3050 BC (?)	4
<u>ZHELTOVSKY</u>	Kamchatka Peninsula (Russia)	C 3050 BC (?)	5
<u>MEIDOB VOLC FIELD</u>	Northern Africa	T 3050 BC (?)	P
<u>POPOCATEPETL</u>	México	C 3010 BC ± 200 years	P
<u>MEIDOB VOLC FIELD</u>	Northern Africa	T 3000 BC (?)	P
<u>KSUDACH</u>	Kamchatka Peninsula (Russia)	T 3000 BC (?)	4
<u>AGUA DE PAU</u>	Azores and Madeira	C 2990 BC (?)	5
<u>NUMAZAWA</u>	Honshu (Japan)	C 2980 BC ± 150 years	5

<u>SAKURA-JIMA</u>	Kyushu (Japan)	C 2900 BC (?)	4
<u>TAUPO</u>	New Zealand	G 2900 BC (?)	4
<u>ARENAL</u>	Costa Rica	T 2800 BC (?)	4
<u>KIKHPINYCH</u>	Kamchatka Peninsula (Russia)	G 2780 BC ± 25 years	4
<u>FOURNAISE, PITON DE LA</u>	Western Indian Ocean	G 2700 BC (?)	5?
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	C 2690 BC ± 75 years	5
<u>PELÉE</u>	West Indies	G 2660 BC ± 200 years	4?
<u>TOLMACHEV DOL</u>	Kamchatka Peninsula (Russia)	C 2650 BC (?)	5
<u>TAUPO</u>	New Zealand	G 2600 BC (?)	4
<u>APOYEQUE</u>	Nicaragua	T 2550 BC ± 1000 years	5
<u>DONA JUANA</u>	Colombia	C 2550 BC ± 150 years	C
<u>KANAGA</u>	Aleutian Islands	C 2550 BC (?)	C
<u>ASAMA</u>	Honshu (Japan)	A 2550 BC ± 500 years	4
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	G 2530 BC ± 300 years	4
<u>CAMPI FLEGREI</u>	Italy	T 2500 BC (?)	4
<u>ATACAZO</u>	Ecuador	C 2490 BC ± 40 years	P
<u>KUJU</u>	Kyushu (Japan)	G 2440 BC	4
<u>PELÉE</u>	West Indies	C 2430 BC (?)	P
<u>COLIMA</u>	México	C 2370 BC ± 150 years	4?
<u>ST. HELENS</u>	Washington (USA)	G 2340 BC (?)	5
<u>LIAMUIGA</u>	West Indies	C 2320 BC ± 150 years	P
<u>HEKLA</u>	Southern Iceland	G 2310 BC ± 20 years	5
<u>ORIZABA, PICO DE</u>	México	C 2300 BC ± 75 years	4
<u>BURNEY, MONTE</u>	Southern Chile	G 2290 BC ± 100 years	5
<u>KARYMSKY</u>	Kamchatka Peninsula (Russia)	G 2250 BC (?)	4
<u>ARENAL</u>	Costa Rica	T 2250 BC (?)	4
<u>GALUNGGUNG</u>	Java (Indonesia)	C 2250 BC ± 150 years	5?
<u>BAITOUZHAN</u>	Eastern China	C 2160 BC ± 100 years	P
<u>CAMPI FLEGREI</u>	Italy	C 2150 BC ± 500 years	5
<u>MIYAKE-JIMA</u>	Izu Islands (Japan)	T 2050 BC (?)	4
<u>ILYINSKY</u>	Kamchatka Peninsula (Russia)	C 2050 BC (?)	5?
<u>ILIAMNA</u>	Southwestern Alaska	C 2050 BC (?)	P
<u>LONG ISLAND</u>	Northeast of New Guinea	C 2040 BC ± 100 years	6
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 2010 BC (?)	4
<u>MARRA, JEBEL</u>	Northern Africa	G 2000 BC (?)	C

<u>RAOUL ISLAND</u>	Kermadec Islands	C 2000 BC ± 100 years	4
<u>CAMPI FLEGREI</u>	Italy	T 2000 BC ± 150 years	4
<u>TOLIMA, NEVADO DEL PARKER</u>	Colombia	G 1990 BC ± 200 years	5?
	Philippines - Mindanao	C 1920 BC ± 40 years	P
<u>VESUVIUS</u>	Italy	G 1900 BC ± 150 years	5
<u>BLACK PEAK</u>	Alaska Peninsula	T 1900 BC ± 150 years	6
<u>DANA</u>	Alaska Peninsula	C 1890 BC (?)	5
<u>HUDSON, CERRO</u>	Southern Chile	G 1890 BC (?)	6
<u>CAMPI FLEGREI</u>	Italy	C 1870 BC ± 50 years	4
<u>ST. HELENS</u>	Washington (USA)	G 1860 BC (?)	6
<u>RINCON DE LA VIEJA</u>	Costa Rica	G 1820 BC ± 150 years	4
<u>VILLARRICA</u>	Central Chile	C 1810 BC ± 200 years	5
<u>VESUVIUS</u>	Italy	G 1800 BC ± 200 years	4
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 1780 BC (?)	4
<u>ST. HELENS</u>	Washington (USA)	T 1770 BC ± 100 years	5
<u>SANBE</u>	Honshu (Japan)	C 1760 BC ± 150 years	4?
<u>IZU-TOBU</u>	Honshu (Japan)	C 1750 BC ± 100 years	4+
<u>VENIAMINOF</u>	Alaska Peninsula	C 1750 BC (?)	6
<u>EGMONT [TARANAKI]</u>	New Zealand	C 1700 BC ± 100 years	5
<u>ASO</u>	Kyushu (Japan)	G 1700 BC ± 50 years	P
<u>ARENAL</u>	Costa Rica	T 1650 BC (?)	4
<u>KATLA</u>	Southern Iceland	T 1650 BC (?)	4
<u>CAMPI FLEGREI</u>	Italy	T 1650 BC (?)	4
<u>ANIACHAK</u>	Alaska Peninsula	I 1645 BC ± 10 years	6?
<u>SANTORINI</u>	Greece	I 1640 BC ± 12 years	7?
<u>TAUPO</u>	New Zealand	G 1600 BC (?)	6
<u>HEKLA</u>	Southern Iceland	T 1550 BC (?)	4
<u>HAYES</u>	Southwestern Alaska	T 1550 BC (?)	5
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	G 1500 BC (?)	5
<u>ETNA</u>	Italy	1500 BC ± 50 years	5?
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 1500 BC (?)	4
<u>OKATAINA</u>	New Zealand	C 1490 BC ± 75 years	4+
<u>ARENAL</u>	Costa Rica	T 1450 BC (?)	4
<u>VESUVIUS</u>	Italy	G 1430 BC ± 300 years	4
<u>PAGO</u>	New Britain	C 1420 BC ± 100 years	6

<u>FUJI</u>	Honshu (Japan)	T 1350 BC (?)	5
<u>YUCAMANE</u>	Perú	C 1320 BC (?)	5
<u>BRAVO, CERRO</u>	Colombia	C 1310 BC ± 150 years	4
<u>AGUA DE PAU</u>	Azores and Madeira	C 1290 BC (?)	4
<u>ARENAL</u>	Costa Rica	G 1250 BC ± 200 years	4
<u>RAOUL ISLAND</u>	Kermadec Islands	C 1200 BC ± 150 years	4
<u>KATLA</u>	Southern Iceland	C 1190 BC ± 40 years	4
<u>MERAPI</u>	Java (Indonesia)	C 1180 BC ± 75 years	P
<u>CUICOCHA</u>	Ecuador	C 1150 BC ± 150 years	5
<u>IZU-TOBU</u>	Honshu (Japan)	C 1090 BC ± 200 years	4+
<u>TOWADA</u>	Honshu (Japan)	T 1050 BC (?)	4+
<u>KHODUTKA</u>	Kamchatka Peninsula (Russia)	T 1050 BC (in or before)	4+
<u>KANAGA</u>	Aleutian Islands	C 1050 BC (?)	C
<u>BRAVO, CERRO</u>	Colombia	T 1050 BC ± 200 years	4
<u>PINATUBO</u>	Luzon (Philippines)	G 1050 BC ± 500 years	6
<u>APOYEQUE</u>	Nicaragua	T 1050 BC ± 1000 years	4
<u>KIRISHIMA</u>	Kyushu (Japan)	T 1050 BC (?)	4
<u>FUJI</u>	Honshu (Japan)	T 1030 BC (?)	4+
<u>TUNGURAHUA</u>	Ecuador	C 1010 BC ± 100 years	5
<u>KUJU</u>	Kyushu (Japan)	G 990 BC ± 1000 years	4
<u>HEKLA</u>	Southern Iceland	G 950 BC (?)	5+
<u>ASO</u>	Kyushu (Japan)	G 950 BC (?)	P
<u>KHODUTKA</u>	Kamchatka Peninsula (Russia)	G 930 BC ± 100 years	5
<u>FUJI</u>	Honshu (Japan)	C 930 BC (in or after)	5
<u>AZUFRAL</u>	Colombia	C 930 BC (?)	P
<u>SOLLIPULLI</u>	Central Chile	C 920 BC ± 75 years	5+
<u>TAUPO</u>	New Zealand	G 900 BC (?)	4
<u>VESUVIUS</u>	Italy	G 890 BC ± 100 years	4
<u>RUIZ, NEVADO DEL</u>	Colombia	T 850 BC (?)	4
<u>TAUPO</u>	New Zealand	G 850 BC (?)	4+
<u>ZAVARITSKY</u>	Kamchatka Peninsula (Russia)	C 850 BC (?)	4+
<u>TENGER CALDERA</u>	Java (Indonesia)	C 830 BC ± 50 years	P
<u>YANTARNI</u>	Alaska Peninsula	T 800 BC ± 500 years	5
<u>MIYAKE-JIMA</u>	Izu Islands (Japan)	T 800 BC ± 300 years	4+
<u>SHIKOTSU</u>	Hokkaido (Japan)	C 800 BC ± 300 years	5

<u>MOMOTOMBO</u>	Nicaragua	C 800 BC ± 50 years	4+
<u>SHIVELUCH</u>	Kamchatka Peninsula (Russia)	G 780 BC ± 300 years	5
<u>CONCEPCION</u>	Nicaragua	C 770 BC ± 50 years	P
<u>BRAVO, CERRO</u>	Colombia	C 730 BC ± 75 years	4+
<u>KATLA</u>	Southern Iceland	C 710 BC ± 50 years	4
<u>PULULAGUA</u>	Ecuador	C 690 BC ± 150 years	5
<u>KRAFLA</u>	Northeastern Iceland	T 650 BC (?)	4
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 650 BC (?)	4
<u>PELÉE</u>	West Indies	G 590 BC ± 200 years	4?
<u>KILAUEA</u>	Hawaiian Islands	T 570 BC ± 300 years	4?
<u>TONGARIRO</u>	New Zealand	C 550 BC ± 200 years	5
<u>ST. HELENS</u>	Washington (USA)	G 530 BC (?)	5
<u>PULULAGUA</u>	Ecuador	C 450 BC ± 150 years	C
<u>BEZYMIANNY</u>	Kamchatka Peninsula (Russia)	G 450 BC (?)	4
<u>PELÉE</u>	West Indies	C 440 BC (?)	P
<u>AOGA-SHIMA</u>	Izu Islands (Japan)	C 430 BC ± 200 years	4
<u>MEAGER</u>	Canada	C 400 BC ± 50 years	5?
<u>ARENAL</u>	Costa Rica	G 380 BC ± 200 years	4
<u>SOUTH SISTER</u>	Oregon (USA)	C 350 BC (?)	4
<u>ATACAZO</u>	Ecuador	C 320 BC ± 16 years	P
<u>RAINIER</u>	Washington (USA)	G 300 BC (?)	4
<u>ARENAL</u>	Costa Rica	T 270 BC (?)	4
<u>TUNGURAHUA</u>	Ecuador	C 270 BC	4?
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 270 BC (?)	4
<u>RAOUL ISLAND</u>	Kermadec Islands	C 250 BC ± 75 years	6
<u>ANTILLANCA GROUP</u>	Central Chile	G 230 BC ± 200 years	5?
<u>TAUPO</u>	New Zealand	G 200 BC (?)	4+
<u>PELÉE</u>	West Indies	C 200 BC (?)	P
<u>TSURUMI</u>	Kyushu (Japan)	C 200 BC ± 50 years	4
<u>POPOCATEPETL</u>	México	C 200 BC ± 300 years	P
<u>RUIZ, NEVADO DEL</u>	Colombia	C 200 BC ± 100 years	4
<u>VULCANO</u>	Italy	183 BC	4
<u>BAITOUZHAN</u>	Eastern China	C 180 BC ± 75 years	P
<u>ARENAL</u>	Costa Rica	G 170 BC ± 200 years	4
<u>MASAYA</u>	Nicaragua	C 170 BC ± 100 years	4+

<u>KRASHENINNIKOV</u>	Kamchatka Peninsula (Russia)	G 150 BC (?)	C
<u>KILAUEA</u>	Hawaiian Islands	C 150 BC (?)	4
<u>ETNA</u>	Italy	122 BC	5
<u>KUJU</u>	Kyushu (Japan)	G 100 BC ± 300 years	4
<u>OKMOK</u>	Aleutian Islands	C 100 BC ± 50 years	6
<u>TENERIFE</u>	Canary Islands	G 80 BC ± 40 years	4+
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 80 BC (?)	4
<u>MISTI, EL</u>	Perú	G 80 BC ± 75 years	4
<u>APOYEQUE</u>	Nicaragua	T 50 BC ± 100 years	5
<u>YAKE-DAKE</u>	Honshu (Japan)	T 50 BC (?)	4
<u>PELÉE</u>	West Indies	G 10 AD ± 50 years	4
<u>MERAPI</u>	Java (Indonesia)	G 20 AD ± 300 years	P
<u>TURRIALBA</u>	Costa Rica	G 40 AD ± 50 years	4
<u>AKAN</u>	Hokkaido (Japan)	T 50 AD (?)	P
<u>PELÉE</u>	West Indies	C 50 AD (?)	P
<u>AMBRYM</u>	Vanuatu	C 50 AD ± 100 years	6+
<u>TOLBACHIK</u>	Kamchatka Peninsula (Russia)	T 50 AD (?)	4+
<u>CHURCHILL</u>	Eastern Alaska	C 60 AD ± 200 years	6
<u>TACANA</u>	México	G 70 AD ± 100 years	4
<u>COTOPAXI</u>	Ecuador	C 70 AD ± 150 years	P
<u>VESUVIUS</u>	Italy	79 AD Aug 24	5?
<u>GUAGUA PICHINCHA</u>	Ecuador	G 80 AD ± 50 years	P
<u>FURNAS</u>	Azores and Madeira	C 80 AD ± 100 years	5
<u>SETE CIDADES</u>	Azores and Madeira	C 90 AD ± 100 years	4
<u>RAOUL ISLAND</u>	Kermadec Islands	T 100 AD (?)	4
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 130 AD (?)	4
<u>PELÉE</u>	West Indies	C 130 AD (?)	P
<u>COTOPAXI</u>	Ecuador	T 140 AD ± 40 years	P
<u>PAGO</u>	New Britain	C 140 AD ± 75 years	5
<u>LIAMUIGA</u>	West Indies	C 150 AD ± 200 years	P
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 150 AD (?)	4
<u>COTOPAXI</u>	Ecuador	C 180 AD ± 100 years	P
<u>TAUPO</u>	New Zealand	G 180 AD (?) Jan 15 ± 45 days	7
<u>WRANGELL</u>	Eastern Alaska	C 190 AD ± 200 years	C?
<u>TUNGURAHUA</u>	Ecuador	C 200 AD (?)	4?

<u>GLACIER PEAK</u>	Washington (USA)	C 200 AD ± 50 years	4+
<u>VESUVIUS</u>	Italy	203 AD	P
<u>KSUDACH</u>	Kamchatka Peninsula (Russia)	G 240 AD ± 100 years	6
<u>PELÉE</u>	West Indies	C 300 AD (?)	P
<u>AKUTAN</u>	Aleutian Islands	C 340 AD (?)	5
<u>PELÉE</u>	West Indies	G 350 AD ± 75 years	4
<u>ASAMA</u>	Honshu (Japan)	A 350 AD ± 10 years Nov 15 ± 15 days	4
<u>SETE CIDADES</u>	Azores and Madeira	T 380 AD ± 300 years	4
<u>RAOUL ISLAND</u>	Kermadec Islands	T 400 AD (?)	4
<u>TOLBACHIK</u>	Kamchatka Peninsula (Russia)	T 400 AD (?)	4+
<u>KRAKATAU</u>	Indonesia	416 AD	C
<u>OSORNO</u>	Southern Chile	C 420 AD ± 100 years	4?
<u>ARENAL</u>	Costa Rica	C 430 AD ± 100 years	4
<u>PELÉE</u>	West Indies	C 450 AD (?)	P
<u>ILOPANGO</u>	El Salvador	G 450 AD ± 30 years	6
<u>VESUVIUS</u>	Italy	472 AD Nov 5	5
<u>NEWBERRY</u>	Oregon (USA)	G 490 AD ± 100 years	4
<u>KARKAR</u>	Northeast of New Guinea	C 520 AD ± 100 years	C
<u>HARUNA</u>	Honshu (Japan)	A 520 AD ± 10 years Jun 1 ± 30 days	4+
<u>PAGO</u>	New Britain	C 530 AD ± 150 years	5
<u>VESUVIUS</u>	Italy	536 AD	4?
<u>RABAUL</u>	New Britain	C 540 AD ± 100 years	6
<u>RAUSU</u>	Hokkaido (Japan)	G 550 AD	4
<u>ARENAL</u>	Costa Rica	T 550 AD (?)	4
<u>RAOUL ISLAND</u>	Kermadec Islands	C 550 AD (?)	4
<u>HARUNA</u>	Honshu (Japan)	A 550 AD ± 10 years Jun 1 ± 30 days	5
<u>INYO CRATERS</u>	California (USA)	C 600 AD ± 75 years	4?
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 600 AD (?)	4
<u>OSHIMA</u>	Izu Islands (Japan)	605 AD	4
<u>OPALA</u>	Kamchatka Peninsula (Russia)	G 610 AD ± 50 years	5+
<u>ARENAL</u>	Costa Rica	G 650 AD ± 100 years	4
<u>SHIVELUCH</u>	Kamchatka Peninsula (Russia)	G 650 AD ± 40 years	5
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 660 AD (?)	4+
<u>VESUVIUS</u>	Italy	685 AD Feb	4
<u>NEWBERRY</u>	Oregon (USA)	G 690 AD ± 100 years	4

<u>CHURCHILL</u>	Eastern Alaska	C 700 AD \pm 200 years	6
<u>BEZYMIANNY</u>	Kamchatka Peninsula (Russia)	T 700 AD \pm 50 years	4?
<u>ARENAL</u>	Costa Rica	T 700 AD (?)	4
<u>PAGO</u>	New Britain	C 710 AD \pm 75 years	6
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 720 AD (?)	4
<u>SANTORINI</u>	Greece	726 AD Jul 15 \pm 45 days	4?
<u>TUNGURAHUA</u>	Ecuador	C 730 AD \pm 200 years	4?
<u>KARKAR</u>	Northeast of New Guinea	C 730 AD (?)	P
<u>COTOPAXI</u>	Ecuador	C 740 AD \pm 75 years	P
<u>BRAVO, CERRO</u>	Colombia	C 750 AD \pm 150 years	4
<u>ARENAL</u>	Costa Rica	A 750 AD \pm 50 years	4
<u>OSHIMA</u>	Izu Islands (Japan)	751 AD	4
<u>SAKURA-JIMA</u>	Kyushu (Japan)	764 AD Jan	4
<u>COTOPAXI</u>	Ecuador	C 770 AD \pm 75 years	P
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	T 770 AD (?)	4
<u>CHICHON, EL</u>	México	G 780 AD \pm 100 years	P
<u>KIRISHIMA</u>	Kyushu (Japan)	788 AD Apr 18	4
<u>TUNGURAHUA</u>	Ecuador	C 800 AD (?)	4?
<u>DAKATAUA</u>	New Britain	C 800 AD \pm 50 years	6?
<u>FUJI</u>	Honshu (Japan)	800 AD Apr 11	4
<u>MONO CRATERS</u>	California (USA)	G 810 AD \pm 300 years	4
<u>POPOCATEPETL</u>	México	I 823 AD Mar 1 \pm 90 days	P
<u>KOZU-SHIMA</u>	Izu Islands (Japan)	838 AD Aug 2	4
<u>FURNAS</u>	Azores and Madeira	C 840 AD \pm 100 years	4
<u>KINENIN</u>	Kamchatka Peninsula (Russia)	C 850 AD \pm 50 years	4
<u>RAOUL ISLAND</u>	Kermadec Islands	T 850 AD (?)	4
<u>MIYAKE-JIMA</u>	Izu Islands (Japan)	850 AD (?)	4
<u>ALAMAGAN</u>	Mariana Islands	C 870 AD \pm 100 years	4
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	874 AD Mar 29	4
<u>IBUSUKI VOLC FIELD</u>	Kyushu (Japan)	885 AD Aug 29	4
<u>NII-JIMA</u>	Izu Islands (Japan)	886 AD Jul 3	4
<u>NIIGATA-YAKE-YAMA</u>	Honshu (Japan)	887 AD	4
<u>PELÉE</u>	West Indies	G 890 AD \pm 100 years	P
<u>BARDARBUNGA</u>	Northeastern Iceland	T 900 AD (?)	4
<u>TOLBACHIK</u>	Kamchatka Peninsula (Russia)	T 900 AD (?)	4

<u>GUAGUA PICHINCHA</u>	Ecuador	C 900 AD \pm 100 years	P
<u>TOWADA</u>	Honshu (Japan)	915 AD Aug 17	5
<u>CEBORUCO</u>	México	C 930 AD \pm 200 years	6
<u>KATLA</u>	Southern Iceland	I 934 AD \pm 2 years	5
<u>OSHIMA</u>	Izu Islands (Japan)	936 AD	4
<u>BEZYMIANNY</u>	Kamchatka Peninsula (Russia)	T 950 AD (?)	4?
<u>TOLBACHIK</u>	Kamchatka Peninsula (Russia)	T 950 AD (?)	4+
<u>VESUVIUS</u>	Italy	968 AD Dec 1 \pm 30 days	4
<u>MASHU</u>	Hokkaido (Japan)	C 970 AD \pm 100 years	5
<u>TOLBACHIK</u>	Kamchatka Peninsula (Russia)	T 1000 (?)	4+
<u>BAITOUZHAN</u>	Eastern China	G 1000 \pm 40 years	7?
<u>KSUDACH</u>	Kamchatka Peninsula (Russia)	G 1000 \pm 50 years	4+
<u>ARENAL</u>	Costa Rica	T 1020 (?)	4
<u>SHIVELUCH</u>	Kamchatka Peninsula (Russia)	G 1030 \pm 100 years	5
<u>BILLY MITCHELL</u>	Bougainville Island	C 1030 \pm 25 years	5+
<u>ARENAL</u>	Costa Rica	T 1030 (?)	4
<u>CAYAMBE</u>	Ecuador	T 1040 (?)	4
<u>BRAVO, CERRO</u>	Colombia	C 1050 \pm 75 years	4
<u>UBINAS</u>	Perú	G 1080 \pm 75 years	5
<u>LOLOBAU</u>	New Britain	C 1100 \pm 30 years	4
<u>HEKLA</u>	Southern Iceland	1104 Oct 15 \pm 45 days	5
<u>ASAMA</u>	Honshu (Japan)	1108 Aug 29	5
<u>OSHIMA</u>	Izu Islands (Japan)	1112 Nov 18	4
<u>SUNSET CRATER</u>	Arizona (USA)	M 1120 \pm 40 years	4?
<u>COTOPAXI</u>	Ecuador	C 1130 \pm 75 years	P
<u>HEKLA</u>	Southern Iceland	1158 Jan 19	4
<u>FURNAS</u>	Azores and Madeira	C 1170 \pm 100 years	4
<u>SAN SALVADOR</u>	El Salvador	A 1200 (?)	4
<u>AKAN</u>	Hokkaido (Japan)	T 1200 \pm 300 years	P
<u>KIRISHIMA</u>	Kyushu (Japan)	1235 Jan 25	P
<u>OSHIMA</u>	Izu Islands (Japan)	1267	4
<u>QUILOTOA</u>	Ecuador	G 1280 (?)	6
<u>CAYAMBE</u>	Ecuador	T 1290 (?)	4
<u>HEKLA</u>	Southern Iceland	1300 Jul 11	4
<u>OKATAINA</u>	New Zealand	G 1310 (?)	5

<u>BRAVO, CERRO</u>	Colombia	C 1330 ± 75 years	4
<u>PELÉE</u>	West Indies	G 1340 ± 50 years	4
<u>KIKHPINYCH</u>	Kamchatka Peninsula (Russia)	C 1350 (?)	4
<u>RUIZ, NEVADO DEL</u>	Colombia	C 1350 (?)	4
<u>MONO CRATERS</u>	California (USA)	D 1350 ± 20 years	4
<u>KATLA</u>	Southern Iceland	1357 ± 3 years	4
<u>CHICHON, EL</u>	México	G 1360 ± 75 years	4?
<u>ORAEFAJOKULL</u>	Southeastern Iceland	1362 Jun 5 ± 4 days	5
<u>SOUFRIERE GUADELOUPE</u>	West Indies	G 1370 ± 150 years	P
<u>INYO CRATERS</u>	California (USA)	G 1380 ± 50 years	4
<u>PARKER</u>	Philippines - Mindanao	G 1380 ± 75 years	P
<u>ARENAL</u>	Costa Rica	C 1400 (?)	4
<u>KATLA</u>	Southern Iceland	1416	4?
<u>SOUFRIERE GUADELOUPE</u>	West Indies	G 1440 ± 100 years	P
<u>FURNAS</u>	Azores and Madeira	1441 ± 2 years	4
<u>OSHIMA</u>	Izu Islands (Japan)	1442 Aug	4
<u>SETE CIDADES</u>	Azores and Madeira	1444 (?)	4
<u>PINATUBO</u>	Luzon (Philippines)	G 1450 ± 50 years	5?
<u>KUWAE</u>	Vanuatu	I 1452 ± 10 years	6
<u>SAKURA-JIMA</u>	Kyushu (Japan)	1471 Nov 3	5?
<u>BARDARBUNGA</u>	Northeastern Iceland	1477 Mar (?)	5?
<u>ST. HELENS</u>	Washington (USA)	D 1480 Jan 15 ± 120 days	5+
<u>ST. HELENS</u>	Washington (USA)	D 1482 Jan 15 ± 120 days	5
<u>KATLA</u>	Southern Iceland	T 1500 (?)	4+
<u>HEKLA</u>	Southern Iceland	1510 Jul 25	4
<u>TELICA</u>	Nicaragua	1529	4
<u>COTOPAXI</u>	Ecuador	1534 Jun	4
<u>AUGUSTINE</u>	Southwestern Alaska	G 1540 ± 100 years	4?
<u>MALY SEMIACHIK</u>	Kamchatka Peninsula (Russia)	G 1550 (?)	4
<u>PAGO</u>	New Britain	C 1550 (?)	P
<u>OSHIMA</u>	Izu Islands (Japan)	1552 Oct 7	4
<u>ANIACHAK</u>	Alaska Peninsula	C 1560 (?)	4+
<u>AGUA DE PAU</u>	Azores and Madeira	1563 Jun 28	5?
<u>CAYAMBE</u>	Ecuador	T 1570 (?)	4
<u>BILLY MITCHELL</u>	Bougainville Island	C 1580 ± 20 years	6

<u>FUEGO</u>	Guatemala	1581 Dec 26	4?
<u>FUEGO</u>	Guatemala	1582 Jan 14	4?
<u>COLIMA</u>	México	1585 Jan 10	4
<u>KELUT</u>	Java (Indonesia)	1586	5?
<u>RAUNG</u>	Java (Indonesia)	1593	5?
<u>RUIZ, NEVADO DEL</u>	Colombia	1595 Mar 12	4
<u>HEKLA</u>	Southern Iceland	1597 Jan 3	4
<u>SUWANOSE-JIMA</u>	Ryukyu Islands (Japan)	T 1600 (?)	4+
<u>HUAYNAPUTINA</u>	Perú	1600 Feb 19	6
<u>MOMOTOMBO</u>	Nicaragua	1605	4
<u>COLIMA</u>	México	1606 Nov 25	4
<u>COLIMA</u>	México	1606 Dec 13	4
<u>COLIMA</u>	México	1622 Jun 8	4
<u>KATLA</u>	Southern Iceland	1625 Sep 2	4
<u>RAOUL ISLAND</u>	Kermadec Islands	C 1630 ± 50 years	4
<u>FURNAS</u>	Azores and Madeira	1630 Sep 3	5
<u>VESUVIUS</u>	Italy	1631 Dec 15	5?
<u>RAUNG</u>	Java (Indonesia)	1638	4?
<u>TUNGURAHUA</u>	Ecuador	1640	4?
<u>LLAIMA</u>	Central Chile	1640 Feb	4
<u>KOMAGA-TAKE</u>	Hokkaido (Japan)	1640 Jul 31	5
<u>KELUT</u>	Java (Indonesia)	1641	4?
<u>PARKER</u>	Philippines - Mindanao	1641 Jan 4	5?
<u>MAKIAN</u>	Halmahera (Indonesia)	1646 Jul 19	4?
<u>SANTORINI</u>	Greece	1650 Sep 27	4?
<u>EGMONT [TARANAKI]</u>	New Zealand	D 1655 (?)	4
<u>LONG ISLAND</u>	Northeast of New Guinea	C 1660 ± 20 years	6
<u>TEON</u>	Banda Sea	1660 Feb	4?
<u>GUAGUA PICHINCHA</u>	Ecuador	1660 Oct 27	4
<u>KATLA</u>	Southern Iceland	1660 Nov 3	4
<u>USU</u>	Hokkaido (Japan)	1663 Aug 16	5
<u>SHIKOTSU</u>	Hokkaido (Japan)	1667 Sep 23	5
<u>GAMKONORA</u>	Halmahera (Indonesia)	1673 May 20	5?
<u>TONGKOKO</u>	Sulawesi (Indonesia)	1680	5?
<u>CHIKURACHKI</u>	Kuril Islands	T 1690 ± 10 years	4

<u>HEKLA</u>	Southern Iceland	1693 Feb 13	4
<u>SERUA</u>	Banda Sea	1693 Jun 4	4?
<u>KOMAGA-TAKE</u>	Hokkaido (Japan)	1694 Jul 4	4?
<u>FUJI</u>	Honshu (Japan)	1707 Dec 16	5
<u>CHIRPOI</u>	Kuril Islands	1712 Dec 31 ± 365 days	4?
<u>TAAL</u>	Luzon (Philippines)	1716 Sep 24	4?
<u>FUEGO</u>	Guatemala	1717 Aug 27	4?
<u>RAOUL ISLAND</u>	Kermadec Islands	C 1720 ± 50 years	4
<u>BRAVO, CERRO</u>	Colombia	T 1720 ± 150 years	4
<u>KATLA</u>	Southern Iceland	1721 May 11	4+
<u>ORAEFAJOKULL</u>	Southeastern Iceland	1727 Aug 3	4
<u>FUEGO</u>	Guatemala	1737 Aug 27	4?
<u>SHIKOTSU</u>	Hokkaido (Japan)	1739 Aug 19	5
<u>OSHIMA-OSHIMA</u>	Hokkaido (Japan)	1741 Aug 29	4
<u>COTOPAXI</u>	Ecuador	1744 Nov 30	4
<u>TAAL</u>	Luzon (Philippines)	1749 Aug 11 (?)	4
<u>KSUDACH</u>	Kamchatka Peninsula (Russia)	G 1750 (?)	4
<u>TAAL</u>	Luzon (Philippines)	1754 Nov 28	4
<u>KATLA</u>	Southern Iceland	1755 Oct 17	4+
<u>MICHOACAN-GUANAJUATO</u>	México	1759 Sep 29	4
<u>MAKIAN</u>	Halmahera (Indonesia)	1760 Sep 22	4?
<u>PLANCHON-PETEROA</u>	Central Chile	1762 Dec 3	4
<u>MIYAKE-JIMA</u>	Izu Islands (Japan)	1763 Aug 17	4
<u>MICHOACAN-GUANAJUATO</u>	México	1764	4
<u>HEKLA</u>	Southern Iceland	1766 Apr 5	4
<u>COTOPAXI</u>	Ecuador	1768 Apr 4	4
<u>USU</u>	Hokkaido (Japan)	1769 Jan 23	4
<u>RAIKOKE</u>	Kuril Islands	1778	4^
<u>SAKURA-JIMA</u>	Kyushu (Japan)	1779 Nov 8	4
<u>GRIMSVOTN</u>	Northeastern Iceland	1783 Jun 8	4+
<u>ASAMA</u>	Honshu (Japan)	1783 Aug 3	4
<u>PAVLOF SISTER</u>	Alaska Peninsula	1786	4?
<u>ETNA</u>	Italy	1787 Jul 18	4
<u>KILAUEA</u>	Hawaiian Islands	1790 Nov (?)	4
<u>AL Aid</u>	Kuril Islands	1793 Feb	4^

<u>SAN MARTIN</u>	México	1793 Mar 2	4
<u>WESTDAHL</u>	Aleutian Islands	1795	4
<u>PAGO</u>	New Britain	T 1800 (?)	P
<u>ST. HELENS</u>	Washington (USA)	D 1800 Jan 15 ± 120 days	5
<u>SOUFRIERE ST. VINCENT</u>	West Indies	1812 Apr 27	4
<u>AWU</u>	Sangihe Islands (Indonesia)	1812 Aug 6	4?
<u>SUWANOSE-JIMA</u>	Ryukyu Islands (Japan)	1813	4
<u>MAYON</u>	Luzon (Philippines)	1814 Feb 1	4
<u>TAMBORA</u>	Lesser Sunda Islands (Indonesia)	1815 Apr 10	7
<u>RAUNG</u>	Java (Indonesia)	1817 Jan 16	4?
<u>COLIMA</u>	México	1818 Feb 15	4
<u>USU</u>	Hokkaido (Japan)	1822 Mar 12	4
<u>GALUNGGUNG</u>	Java (Indonesia)	1822 Oct 8	5
<u>ISANOTSKI</u>	Aleutian Islands	? 1825 Mar 10	4
<u>KELUT</u>	Java (Indonesia)	1826 Oct 11	4?
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	1827 Jun 27	4
<u>KLIUCHEVSKOI</u>	Kamchatka Peninsula (Russia)	1829 Sep 9	4?
<u>BABUYAN CLARO</u>	North of Luzon (Philippines)	1831	4?
<u>COSIGUINA</u>	Nicaragua	1835 Jan 20	5
<u>HEKLA</u>	Southern Iceland	1845 Sep 2	4
<u>FONUALEI</u>	Tonga Islands	1846 Jun 11 (?)	4?
<u>USU</u>	Hokkaido (Japan)	1853 Apr 22	4
<u>SHIVELUCH</u>	Kamchatka Peninsula (Russia)	1854 Feb 18	5
<u>KOMAGA-TAKE</u>	Hokkaido (Japan)	1856 Sep 25	4
<u>FUEGO</u>	Guatemala	1857 Jan 15	4?
<u>MAKIAN</u>	Halmahera (Indonesia)	1861 Dec 28	4?
<u>SINARKA</u>	Kuril Islands	1872	4
<u>MERAPI</u>	Java (Indonesia)	1872 Apr 15	4
<u>GRIMSVOTN</u>	Northeastern Iceland	1873 Jan 8	4
<u>ASKJA</u>	Northeastern Iceland	1875 Mar 29	5
<u>SUWANOSE-JIMA</u>	Ryukyu Islands (Japan)	1877	4?
<u>COTOPAXI</u>	Ecuador	1877 Jun 26	4
<u>FUEGO</u>	Guatemala	1880 Jun 28	4?
<u>KRAKATAU</u>	Indonesia	1883 Aug 27	6
<u>AUGUSTINE</u>	Southwestern Alaska	1883 Oct 6	4

<u>TUNGURAHUA</u>	Ecuador	1886 Jan 11	4
<u>OKATAINA</u>	New Zealand	1886 Jun 10	5
<u>NIUAFO'OU</u>	Tonga Islands	1886 Aug 31	4?
<u>BANDAI</u>	Honshu (Japan)	1888 Jul 15	4
<u>SUWANOSE-JIMA</u>	Ryukyu Islands (Japan)	1889 Oct 2	4
<u>COLIMA</u>	México	1890 Feb 16	4
<u>CALBUCO</u>	Southern Chile	1893 Jan 10	4
<u>MAYON</u>	Luzon (Philippines)	1897 Jun 25	4?
<u>DONA JUANA</u>	Colombia	1899 Nov 13	4
<u>PELÉE</u>	West Indies	1902 May 2	4
<u>SOUFRIERE ST. VINCENT</u>	West Indies	1902 May 6	4?
<u>PELÉE</u>	West Indies	1902 May 8	4
<u>SANTA MARIA</u>	Guatemala	1902 Oct 24	6?
<u>GRIMSVOTN</u>	Northeastern Iceland	1903 May 28	4
<u>LOLOBAU</u>	New Britain	1905	P
<u>VESUVIUS</u>	Italy	1906 Apr 8	4?
<u>KSUDACH</u>	Kamchatka Peninsula (Russia)	1907 Mar 28 (?)	5
<u>LOLOBAU</u>	New Britain	1911	4
<u>NOVARUPTA</u>	Alaska Peninsula	1912 Jun 6	6
<u>COLIMA</u>	México	1913 Jan 20	4?
<u>SAKURA-JIMA</u>	Kyushu (Japan)	1914 Jan 12	4
<u>AGRIGAN</u>	Mariana Islands	1917 Apr 9	4
<u>TUNGURAHUA</u>	Ecuador	1918 Apr 5	4
<u>KATLA</u>	Southern Iceland	1918 Oct 12	4
<u>KELUT</u>	Java (Indonesia)	1919 May 19	4
<u>MANAM</u>	Northeast of New Guinea	1919 Aug 11	4
<u>RAIKOKE</u>	Kuril Islands	1924 Feb 15	4
<u>IRIOMOTE-JIMA</u>	Ryukyu Islands (Japan)	1924 Oct 31	4?
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	1926 Apr 5	4
<u>KOMAGA-TAKE</u>	Hokkaido (Japan)	1929 Jun 17	4
<u>KLIUCHEVSKOI</u>	Kamchatka Peninsula (Russia)	1931 Mar 25	4
<u>ANIAKCHAK</u>	Alaska Peninsula	1931 May 1	4
<u>ANIAKCHAK</u>	Alaska Peninsula	1931 May 11	4?
<u>FUEGO</u>	Guatemala	1932 Jan 21	4
<u>AZUL, CERRO</u>	Central Chile	1932 Apr 10	5+

<u>KHARIMKOTAN</u>	Kuril Islands	1933 Jan 8	5
<u>SUOH</u>	Sumatra (Indonesia)	1933 Jul 10	4
<u>KUCHINOERABU-JIMA</u>	Ryukyu Islands (Japan)	1933 Dec 24	4?
<u>RABAU</u>	New Britain	1937 May 29	4?
<u>MICHOACAN-GUANAJUATO</u>	México	1943 Feb 20	4
<u>AVACHINSKY</u>	Kamchatka Peninsula (Russia)	1945 Feb 25	4
<u>SARYCHEV PEAK</u>	Kuril Islands	1946 Nov 9	4
<u>HEKLA</u>	Southern Iceland	1947 Mar 29	4
<u>AMBRYM</u>	Vanuatu	1951	4+
<u>LAMINGTON</u>	New Guinea	1951 Jan 21	4
<u>KELUT</u>	Java (Indonesia)	1951 Aug 31	4
<u>BAGANA</u>	Bougainville Island	1952 Feb 29	4
<u>SPURR</u>	Southwestern Alaska	1953 Jul 9	4
<u>CARRAN-LOS VENADOS</u>	Central Chile	1955 Jul 27	4
<u>BEZYMIANNY</u>	Kamchatka Peninsula (Russia)	1956 Mar 30	5
<u>AGUNG</u>	Lesser Sunda Islands (Indonesia)	1963 Mar 17	5
<u>AGUNG</u>	Lesser Sunda Islands (Indonesia)	1963 May 16	4
<u>SHIVELUCH</u>	Kamchatka Peninsula (Russia)	1964 Nov 12	4+
<u>TAAL</u>	Luzon (Philippines)	1965 Sep 28	4
<u>KELUT</u>	Java (Indonesia)	1966 Apr 26	4
<u>AWU</u>	Sangihe Islands (Indonesia)	1966 Aug 12	4
<u>FERNANDINA</u>	Galápagos Islands	1968 Jun 11	4
<u>TIATIA</u>	Kuril Islands	1973 Jul 14	4
<u>FUEGO</u>	Guatemala	1974 Oct 17	4
<u>TOLBACHIK</u>	Kamchatka Peninsula (Russia)	1975 Jul 6	4+
<u>AUGUSTINE</u>	Southwestern Alaska	1976 Jan 22 (?)	4
<u>ST. HELENS</u>	Washington (USA)	1980 May 18	5
<u>ALAI</u>	Kuril Islands	1981 Apr 30	4
<u>PAGAN</u>	Mariana Islands	1981 May 15	4
<u>CHICHON, EL</u>	México	1982 Mar 28	4+
<u>CHICHON, EL</u>	México	1982 Apr 3	5
<u>GALUNGGUNG</u>	Java (Indonesia)	1982 May 17	4
<u>COLO [UNA UNA]</u>	Sulawesi (Indonesia)	1983 Jul 23	4
<u>AUGUSTINE</u>	Southwestern Alaska	1986 Mar 27	4?
<u>CHIKURACHKI</u>	Kuril Islands	1986 Nov 20	4

<u>KLIUCHEVSKOI</u>	Kamchatka Peninsula (Russia)	1990 Jan 30	4
<u>KELUT</u>	Java (Indonesia)	1990 Feb 10	4
<u>PINATUBO</u>	Luzon (Philippines)	1991 Jun 15	6
<u>HUDSON, CERRO</u>	Southern Chile	1991 Aug 12	5+
<u>SPURR</u>	Southwestern Alaska	1992 Jun 27	4
<u>LASCAR</u>	Northern Chile	1993 Apr 19	4
<u>RABAUL</u>	New Britain	1994 Sep 19	4?
<u>ULAWUN</u>	New Britain	2000 Sep 29	4
<u>SHIVELUCH</u>	Kamchatka Peninsula (Russia)	2001 May 22	4?
<u>RUANG</u>	Sangihe Islands (Indonesia)	2002 Sep 25	4?
<u>REVENTADOR</u>	Ecuador	2002 Nov 3	4
<u>MANAM</u>	Northeast of New Guinea	2005 Jan 27	4?
<u>RABAUL</u>	New Britain	2006 Oct 7	4?

Global Volcanism Program — Department of Mineral Sciences — National Museum of Natural History — Smithsonian Institution