

International Volcano Research Centre

Apache Junction, Arizona USA

The International Volcano Research Centre (INTLVRC) is pleased to announce the global volcano eruption forecast, to date, for the year 2009. Further information and questions may be had by visiting the INTLVRC website at <http://www.intlvr.org> . The forecast is updated from time-to-time on our website as data is received from about the world.

THE YEAR 2009 VOLCANO ERUPTION FORECAST

Forecasting the time, place and character of a volcanic eruption is one of the most difficult goals of volcanology. It is also one of the most difficult goals to achieve. The current goal in forecasting volcanic eruptions and the precept of this analysis, is to provide the best possible accurate eruption forecasts based on the geologic history of the volcanoes under study as well as the day-to-day vital signs of volcanoes in terms of surface deformation, micro-earthquakes, temperature, gas emissions, tilt and other measurements. The software package **"ERUPTION" Pro 10.7** attempts to achieve these goals. **"ERUPTION" Pro 10.7** performs analysis on entered volcano eruption data from both historical and current eruption data. It produces three forecasts; a statistically projected next eruption year, the next forecasted beginning eruption year with an $\geq 50\%$ probability of eruption occurrence, and finally, the next forecasted beginning eruption year with an $\geq 95\%$ probability of eruption occurrence. Since the last output of this forecast, several new and improved algorithms and corrections, etc. have been incorporated into **"ERUPTION" Pro 10.7** resulting in accurate forecasts. They are reflected in the Tables below. Table 1, below, presents the year 2009 forecast. Tables 2 & 3 present the $\geq 50\%$ & $\geq 95\%$ probability forecast profiles respectively. The forecast does not include submarine type volcanoes. This forecast will be updated periodically as additional data is received and confirmed.

TABLE 1

THOSE VOLCANOES STATISTICALLY FORECASTED FOR ERUPTION BEGINNING IN THE YEAR 2009

VOLCANO NAME	ERUPTED	LOCATION	LAT	LONG
ARENAL		COSTA RICA	10.46N	084.70W
BEZYMANNY		KAMCHATKA	55.98N	160.59E
CHAITEN	Continuing	CHILE	42.83S	072.65W
COLIMA	2 January	MEXICO	19.51N	103.62W
DABBAHU		ETHIOPIA	12.60N	040.68E
ERTA ALE		ETHIOPIA	13.60N	040.67E
GARBUNA GROUP		NEW BRITAIN	05.45S	150.03E
HOME REEF		TONGA IS.	18.99S	174.78W
HUILA		COLOMBIA	02.93N	076.03W
IJEN		JAVA	08.06S	114.24E
KARYMSKY	Continuing	KAMCHATKA	54.05N	159.43E
KICK 'EM JENNY		WEST INDIES	12.30N	061.64W
KILAUEA	Continuing	HAWAII	19.43N	155.29W
MT. EREBUS	Continuing	ANTARCTICA	77.53S	167.17E
MT. ETNA		SICILY	37.34N	015.00E
POPOCATEPETL	Continuing	MEXICO	19.02N	098.62W
RABAU		NEW BRITAIN	04.27S	152.20E
SEMERU		JAVA	08.11S	112.92E
SOUFRIERE HILLS	Continuing	WEST INDIES	16.72N	062.18W
STROMBOLI	Continuing	ITALY	38.79N	015.21E
TUNGURAHUA	Continuing	ECUADOR	01.47S	078.44W

TABLE 2

**THOSE VOLCANOES WITH A \geq 50% ERUPTION
FORECAST BEGINING IN THE YEAR 2009**

VOLCANO NAME	ERUPTED	LOCATION	LAT	LONG
ALAID		KURILE IS.	50.86N	155.55E
AMBRYM		S. PACIFIC	16.25S	168.12E
ANATAHAN		MARIANA IS.	16.35N	145.67E
CHIKURACHKI		KURILE IS.	50.33N	155.46E
CLEVELAND		ALEUTIAN IS.	52.83N	169.94W
DUKONO		HALMAHERA	01.68N	127.88E
EAST EPI		S. PACIFIC	16.68N	168.37E
GALUNGGUNG		JAVA	07.25S	108.06E
GUAGUA PICHINCHA		ECUADOR	00.17S	078.60W
KANAGA		ALEUTIAN IS.	51.92N	177.17W
KARANGETANG		SANGIHE IS.	02.78N	125.40E
KERINCI		SUMATRA	01.81S	101.26E
KLIUCHEVSKOI	Continuing	KAMCHATKA	56.06N	160.64E
KORYAKSKY	Continuing	KAMCHATKA	53.32N	158.69E
KRAKATAU		INDONESIA	06.10S	105.42E
LANGILA		NEW BRITAIN	05.53S	148.42E
LASCAR		CHILE	23.37S	067.73W
LONQUIMAY		CHILE	38.38S	071.58W
MANAM		PAPUA NEW GUINEA	04.08S	145.04E
MASAYA		NICARAGUA	11.98N	086.16W
MAYON		PHILIPPINES	13.26N	123.69E
MERAPI		JAVA	07.54S	110.44E
MIYAKE-JIMA		JAPAN	34.08N	139.53E
Mt. BELINDA		SANDWICH IS.	58.42S	026.33W
Mt. ST. HELENS		UNITED STATES	46.20N	122.18W
NYAMURAGIRA		C. AFRICA	01.41S	029.20E
REVENTADOR		ECUADOR	00.08S	077.66W
SANTA MARIA		GUATEMALA	14.72N	091.57W

SOPUTAN		SULAWESI	01.11N	124.73E
SUWANOSE-JIMA		JAPAN	29.64N	129.72E
TIATIA		KURILE IS.	44.35N	146.26E
ULAWUN		NEW BRITAIN	05.06S	151.33E
VILLARRICA		CHILE	39.42S	071.93W
WESTDAHL		ALEUTIAN IS.	54.52N	164.65W
WHITE IS.		NEW ZEALAND	37.52S	177.18E

TABLE 3

**THOSE VOLCANOES WITH A \geq 95% ERUPTION
FORECAST BEGINING IN THE YEAR 2009**

VOLCANO NAME	ERUPTED	LOCATION	LAT	LONG
BAGANA		BOUGAINVILLE	06.14S	155.20E
FUEGO		GUATEMALA	14.47N	090.88W
LOPEVI		S. PACIFIC	16.51S	168.35E
OL DOINYO LENGAI		E. AFRICA	02.76S	035.91E
PACAYA		GUATEMALA	14.38N	090.60W
PITON de la FOURNAISE		INDIAN OCEAN	21.23S	055.71E
SAKURA-JIMA		JAPAN	31.59N	130.66E
SAN CRISTOBAL		NICARAGUA	12.70N	087.00W
SHEVELUCH	Continuing	KAMCHATKA	56.65N	161.36E
YASUR	Continuing	VANUATU	19.55S	169.44E