

VOLCANOES_2

Read the following text and use the word given in bold at the end of each line to form a word that fits in the space on the same line:

Software System to Predict the Evolution of the Ash Cloud from the Icelandic Volcano

00	Researchers at the Universidad Politécnica de Madrid's Facultad de Informática have developed a <u>system</u> to forecast	systematic
01	the evolution of the ash cloud from Iceland's Eyjafjallajökull volcano. The system is based on anof the volcano's	estimative
02	daily emissions gathered using satellite, and is available for consultation over the Internet. These emissions vary on	observe
03	a daily basis, although, for forecasting purposes, the emissions observed on the satellites are to be constant	assumption
04	during the forecasting or model simulation period. This is the biggest of uncertainty, as it is not known exactly how	resourceful
05	the volcano's emissions will in the future. The system	evolution
06	combines information on the volcano's behavior, gathered twice a day from the satellites, with environmental information, like wind speed and direction, air, etc.,	humid
07	that influences the evolution of the volcanic ash	cloudy
08is based on the assumption that the emitted volcanic ash cloud rises from 4.5 to 8 kilometres into the air. The system	predictive
09	analyses the information as sulphuremissions (SO ₂).	oxide

10	Thecalculations are made from the above satellite observations, and the results are visualized at three levels using	day
11	Dobson units. The Dobson unit (DU) is a way of expressing the quantity of ozone present in the Earth's, specifically	spheric
12	the stratosphere. In fact, it is a measure of the thickness	actually
13	of the ozone layer. In the case of the volcano, this measure is used to determine theof the ash cloud. The forecast is	densely
14	subject to some because there is no way of ascertaining how the volcano will behave from one day to the next.	certain
15	However, the high-quality software model used has been providing forecasts of ozone and othersince the year 2000.	pollution