

# The new worldwide collapse caldera database (CCDB): A tool for studying and understanding caldera processes

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## CCDB objectives

Collapse calderas are one of the most important volcanic structures not only because of their hazard implications, but also because of their high geothermal energy potential and their association with mineral deposits of economic interest.

The worldwide Collapse Caldera Database (CCDB) was designed to become a comprehensive catalogue including all known or identified collapse calderas.

The CCDB should be an accessible and useful tool for studying and understanding caldera collapse processes.

## The CCDB evolution & structure

In 2008, the first CCDB version included over 280 documented calderas around the world and was left open for the incorporation of new data from future studies.

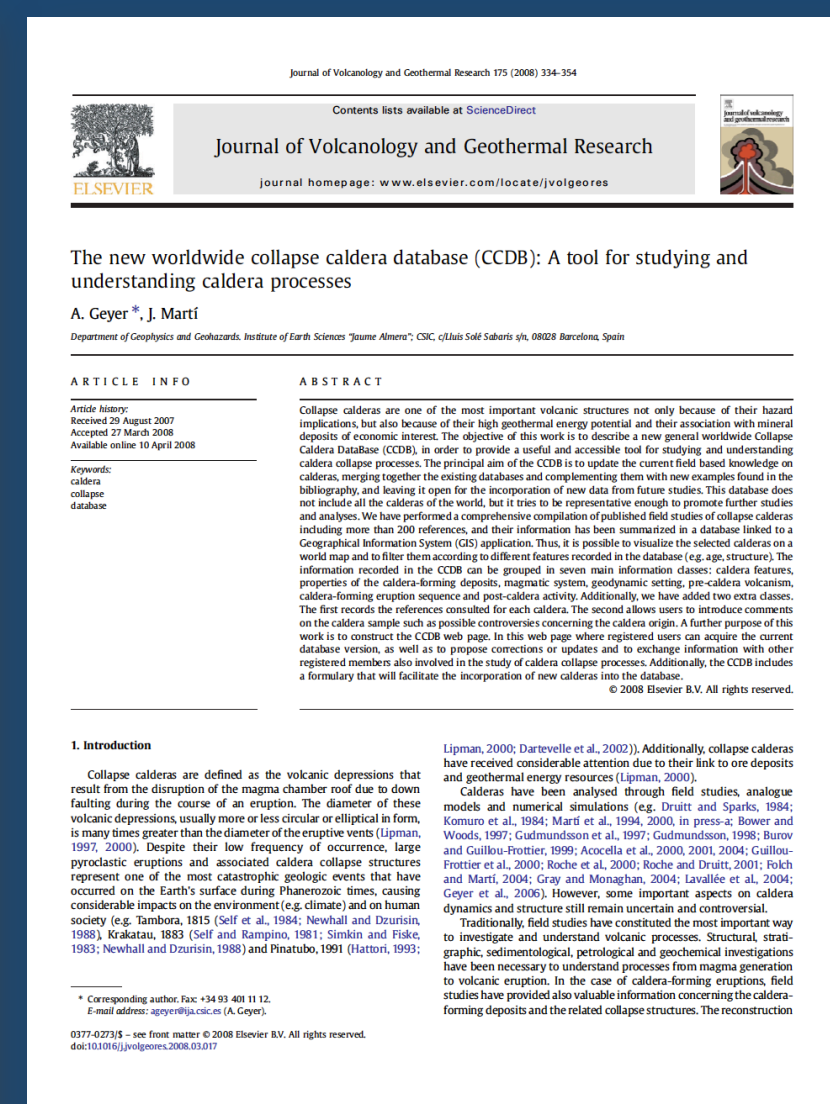
Currently, the database includes over 450 calderas, trying to be representative enough to promote further studies and analyses.

The performed compilation of published field studies of collapse calderas includes more than 500 references, and the information has been summarized in a database linked to a Geographical Information System (GIS) application.

During the last seven years, the database has been available on-line at <http://www.gvb-csic.es/CCDB.htm> previous registration.

This year, the CCDB webpage will be updated and improved so the database content can be queried on-line.

## 2008 CCDB Version & Paper



Download the CCDB paper here!



## On-line query options!

## Visualize the results on-line or...

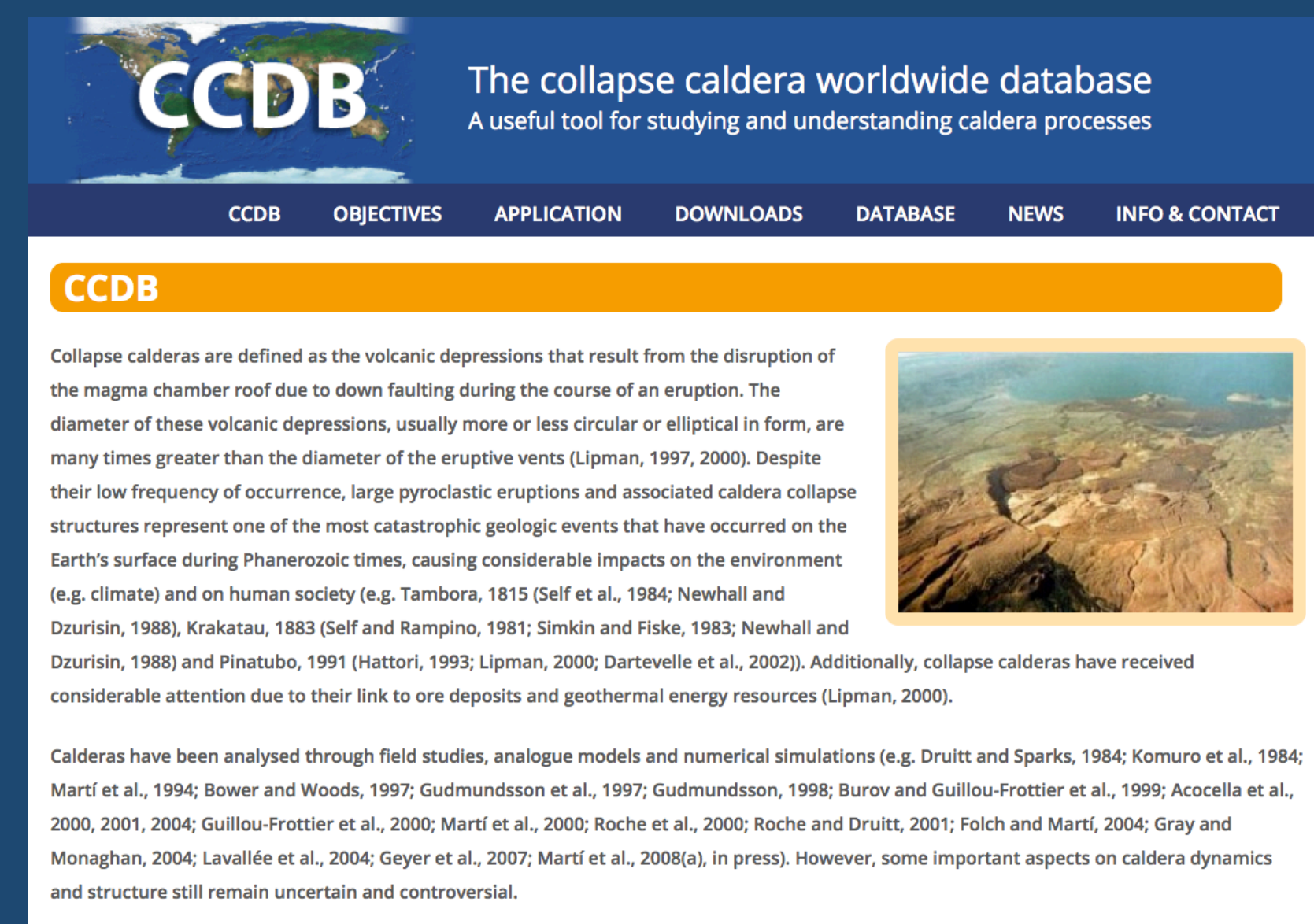
Search results

Download in a CSV file (right click and Save as...)

Name	Subregion	Age	Diameter (km)	Rock suite	Plate tectonic setting
Alidem	Red Sea & Ethiopia	0.00-0.00	0.00-0.00	Alkaline felsic	Continental rift
Aluco	Red Sea & Ethiopia	8.00-8.00	8.00-8.00	Alkaline felsic	Continental rift
Alayro	Red Sea & Ethiopia	8.00-8.00	8.00-8.00	Alkaline felsic	Continental rift
Awasa	Red Sea & Ethiopia	< 1 Ma?	40.00-30.00	Unknown	Continental rift
Birianti	Red Sea & Ethiopia	11.00-11.00	11.00-11.00	Alkaline felsic	Continental rift
Bora-Bericio (Bericha)	Red Sea & Ethiopia	0.00-0.00	0.00-0.00	Alkaline felsic	Continental rift
Chara (Arusa)	Red Sea & Ethiopia	0.00-0.00	0.00-0.00	Alkaline felsic	Continental rift
Corbetti	Red Sea & Ethiopia	0.44-0.56 Ma	15.00-12.00	Peralkaline, alkaline	Continental rift
Dabbahu (Moima)	Red Sea & Ethiopia	0.00-0.00	0.00-0.00	Alkaline mafic	Continental rift
Darba	Africa-N	4 ka	5.00-5.00	Alkaline intermediate	Hotspot
Duguna	Red Sea & Ethiopia	10.00-10.00	10.00-10.00	Alkaline felsic	Continental rift
Embajaj	Africa-E	0.00-0.00	0.00-0.00	Alkaline mafic-felsic	Continental rift
Emi Kousi	Africa-N	1.3-1.34 Ma	14.00-14.00	Peralkaline, alkaline	Hotspot
Emuraungotak	Africa-E	Late Quaternary	9.00-7.00	Peralkaline, alkaline	Continental rift
Erta Ale	Red Sea & Ethiopia	1.60-0.70	1.60-0.70	Alkaline mafic-felsic	Continental rift
Fantale	Red Sea & Ethiopia	4.00-3.00	4.00-3.00	Peralkaline, alkaline	Continental rift
Gadama	Red Sea & Ethiopia	176-224 ka	19.00-10.00	Alkaline felsic	Continental rift
Gademota	Red Sea & Ethiopia	0.2-0.3 Ma	20.00-20.00	Alkaline felsic	Continental rift
Gropo	Red Sea & Ethiopia	0.00-0.00	0.00-0.00	Alkaline felsic	Continental rift
Harthala	Africa-E	4.00-3.00	4.00-3.00	Unknown	Unknown

... download them as .csv file

## NEW 2015 on-line version!



## GIS application available!

## Individual record card for each caldera!

## On-line Info & contact form

Take a copy!!



on-line query

volcanic structures caldera-forming deposits  
Geographical Information System

collapse caldera  
magmatic system on-line access  
caldera features

field studies database  
post-caldera activity geodynamic setting  
References

**CCDB**

Visit the new CCDB web!



## News section