

ESTUDIO MINERALÓGICO DEL CABEZO RAJAO (SE DE ESPAÑA) Y SUS IMPLICACIONES EN LA ORDENACIÓN AMBIENTAL.

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ABSTRACT

The mineralogical study of *Cabezo Rajao* is of great interest because of the variety of mineralogical species to be found there, for the mineralogenetic processes which produced them and for the past and present alteration processes which have affected these minerals. The strong hydrothermal alteration observed in the rocks making up *Cabezo Rajao* is responsible for the mineral-forming processes present. It is a good example of a PSG (pyrite, sphalerite, galena) mineral-metallic outcrop associated with an intrusion of volcanic rock of intermediate basicity and hydrothermal alteration which deposited metallic ores (sulfides), thus transforming the original rock mineralogy and producing a complex paragenesis, which is representative of these processes.

The application of geographical information systems to the results obtained by physical, chemical and mineralogical determination has made it possible to draw graphical representations of the spatial variability.

By jointly examining the geological and mineralogical characteristics and bearing in mind topographical studies concerning the slope, etc., of the physical medium, it is possible to identify points or areas of mineralogical and geological interest.

It is therefore possible to identify areas to which specific action programmes may be applied with optimal chances of success.