GEOSPATIAL DATA SCIENCE IN MAPPING METEORITE IMPACTS ON EARTH

2,0 M +σ 180.758 x̄.26.035 0,50

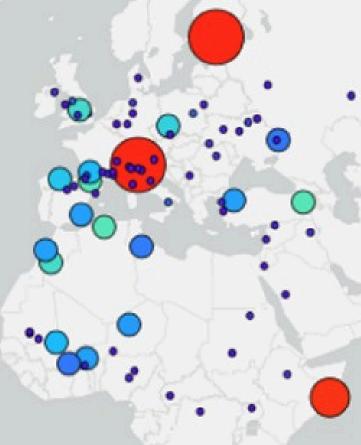
Study that investigates the phenomenon of meteorite fall through a detailed analysis of the data. The geological and topographical characteristics of the impact zones as well as the classifications and compositions of these celestial bodies are examined

We classify data by color and size of meteorites impacted on the earth by their diameter and mass



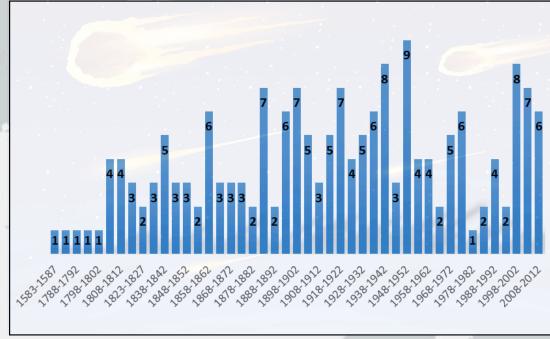


The Allende meteorite, the largest carbonaceous chondrite ever found on Earth, found near the town of Pueblito de Allende, in the state of Chihuahua, Mexico



11,7%	29,6%	25,7%	31,8%	1,1%
AFRICA	AMERICA	ASIA	EUROPA	OCEANIA
	11,000			

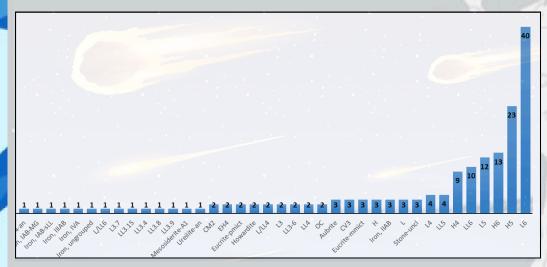
Number of reported incidents classified by continent



Grouping the data we showed that in the years 1948-1952 is the group with more incidents reported, with 1949 that has 5 recorded incidents

CONCLUSIONS

- 31.8% of the recorded impacts were in the European continent
- Gravitational forces influence the impact zones, due to their variation on the earth. in the polar regions present a force of 9.8 m/s² unlike the equatorial zones which is 9.7 m/s²
- Areas with mineral-rich soils can be considered as a possible impact zone



Chondrite meteorites are classified into three main groups: H (high iron content), L (low iron content) and LL (very low iron content). Within these groups, the number (in this case, 6) indicates the degree of thermal metamorphism on a scale of 3 to 7