

METEORITE LANDING

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IST 421 Information Visualization

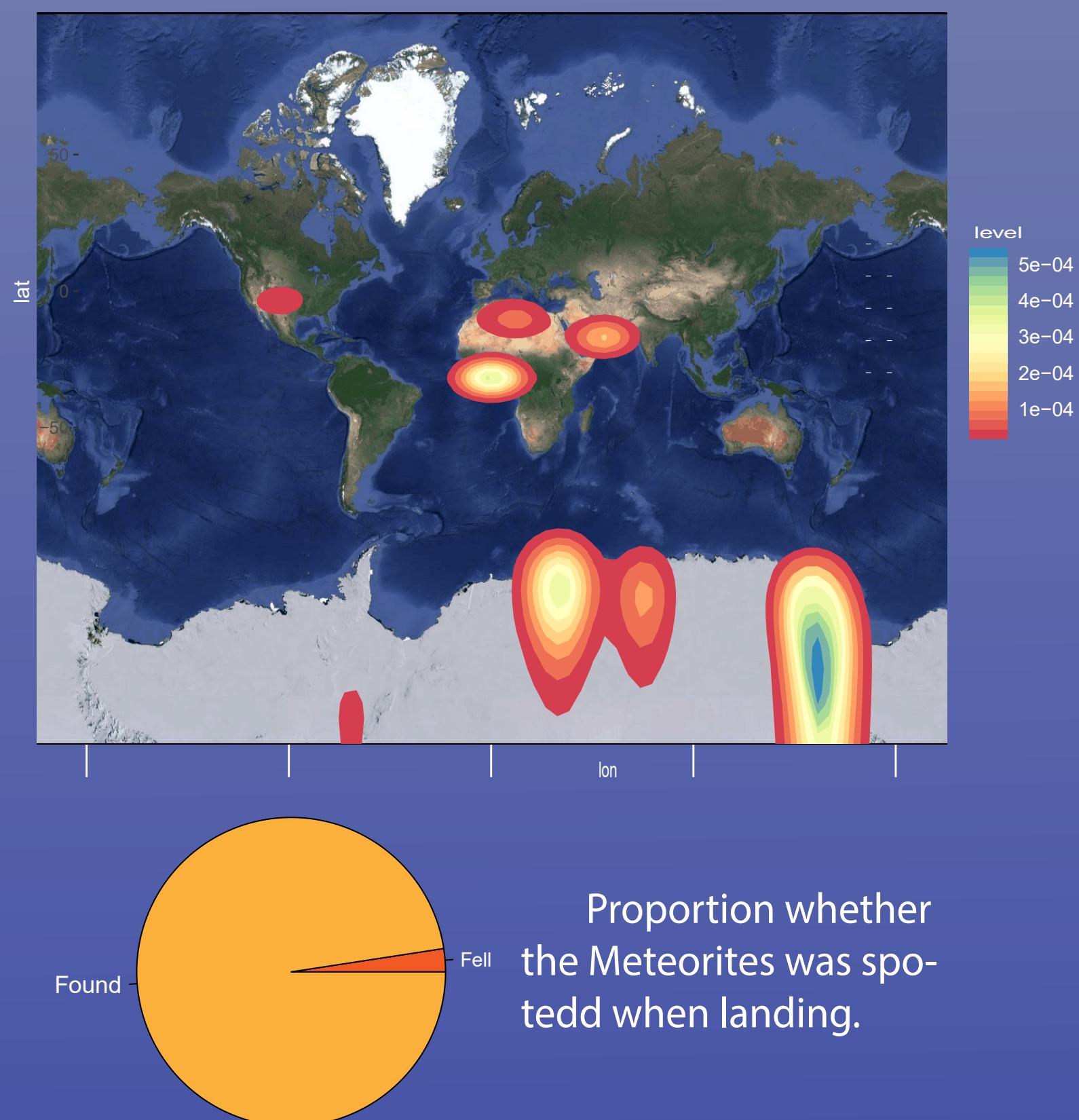
Meteorite - the mysterious stones came from the universe - always shows novel and beautiful outlooks. Many meteorite fans and Scientists collect and do research about them.

This Analysis is to find how does the metorites on earth distribute and is there any temporal law for the landing meteorites. Is there any way to enlarge the possibility for interested people to find a meteorites?

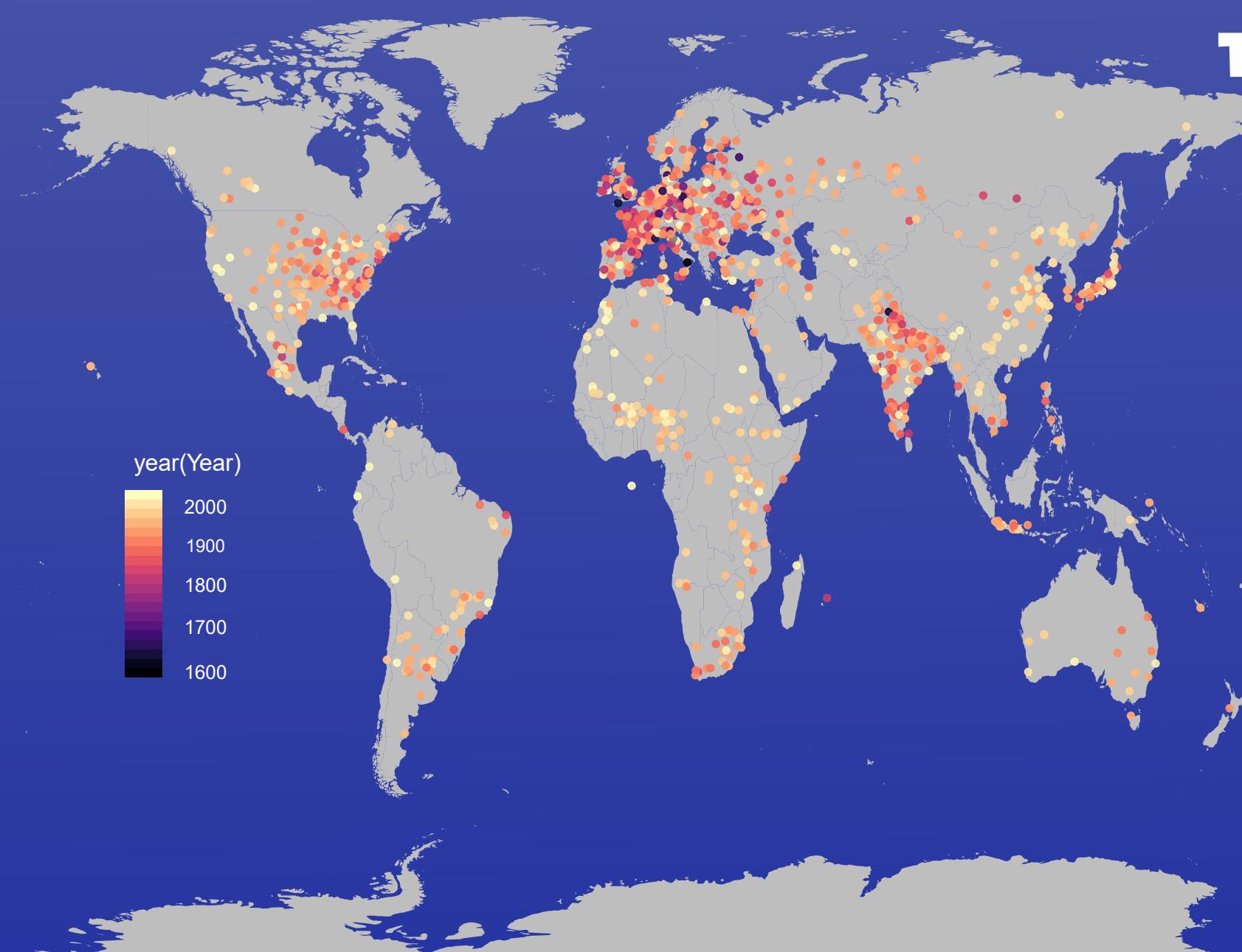
DATA DESCRIPTION

The dataset is from nasa-data. There are 45,716 rows and 10 columns. Columns are name of meteorite, meteorites' id, nametype, class of meteorite, mass, whether the meteorites are spotted when landing, the year be found, meteorites' geolocation.

Meteorite Landing Density Location



Meteorite Landing Location (in American)



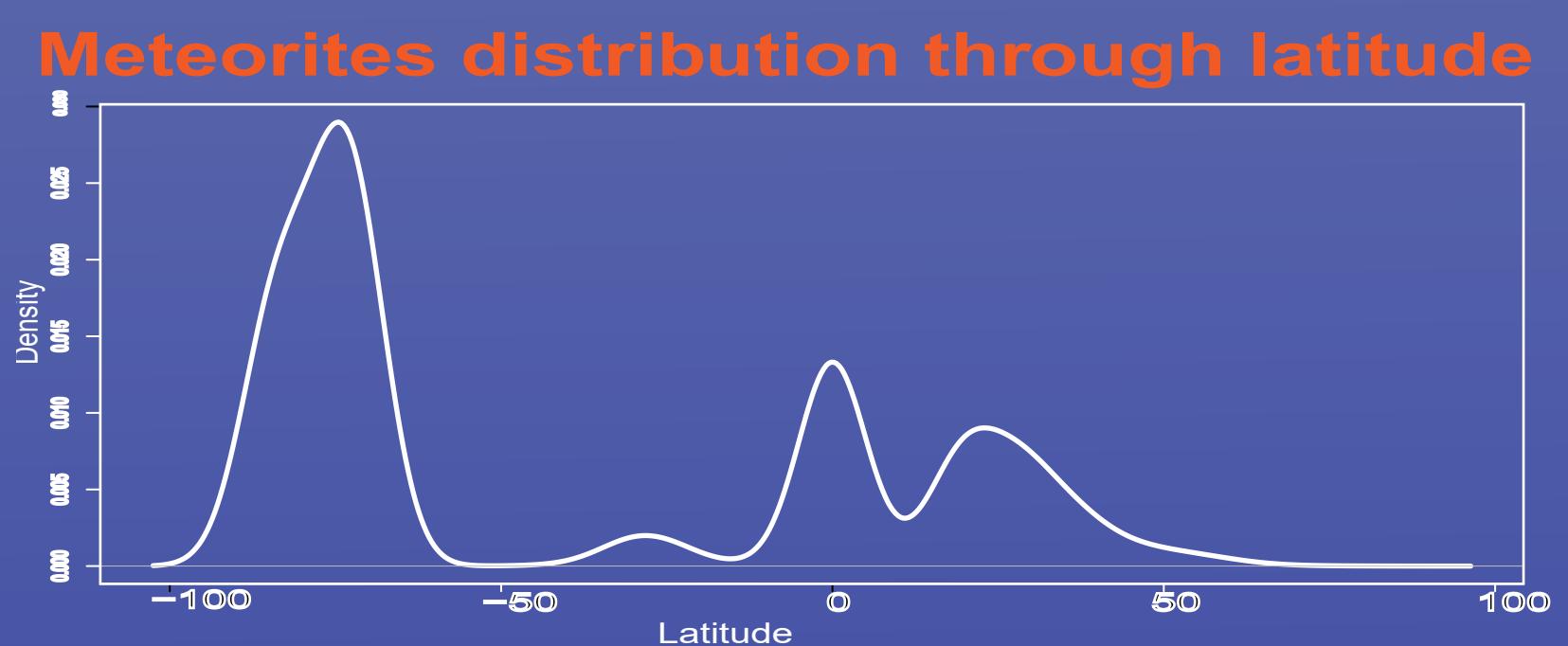
MOTIVATION

People who curious about meteorites landing will be interested in this topic to learn about geolocation distribution and temporal pattern of meterites .

IS THERE ANY PATTERN FOR THE LOCATION THAT METEORITES LAND ON?

On the top-left side, the heatmap highlights the location that meteorites were found most frequently. They are at Antarctica and mid-Africa Area, and then North-Africa, Arabia and south-west America. Combined with the terran map background, most of thoese area are not covered by PLANTS

The following density plot represants the density of the meteorite through the latitude. The density is extremely high in range between 60-90 degree South—which is Antarctica.



DOES METEORITES LANDING RELATE TO TIME?

The left side plot shows the distribution of the meteorites that are witnessed when landing, and is colored base on the year they were found.

Most of early recorded of witnessing meteorite concentrate in Europe, then as time goes, the witness record spread to the world. It may related to the spread of modern ASTRONOMY through modernization process.