1.Which is the difference between the median and the 0.5 quantile?

There is no difference.

2.Why the median and the mean are not the same in Rhine runoff?

The main difference is the variability of precipitation in different seasons throughout the year.

3.Do you notice something strange regarding the location of the stations LOBI and REES? Can you think of a possible explanation?

These stations are located in the mountains but have the altitude according to our data. Perhaps this can be explained by the fact that the height is considered relative to the beginning of the source of runoff.

4.Which were the months, seasons, years with the highest/lowest runoff at each location? Try to present them in comprehensive way. Feel free to improvise!

See R code.