

# Study on automatic classification algorithm of plasma wave data

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The VLF instruments onboard the Akebono satellite has successfully operated for more than 15 years.

The total amount of the datasets is so large, and it is quite difficult for researchers to find special events which they are interested in.

In order to help the reseachers, we developed a program which automatically classify plasma wave phenomena observed by scientific satellites.

However, it was found that the proposed method does not properly work in some cases.

In the present study, we introduce the K-NN method and evaluate our conventional method.