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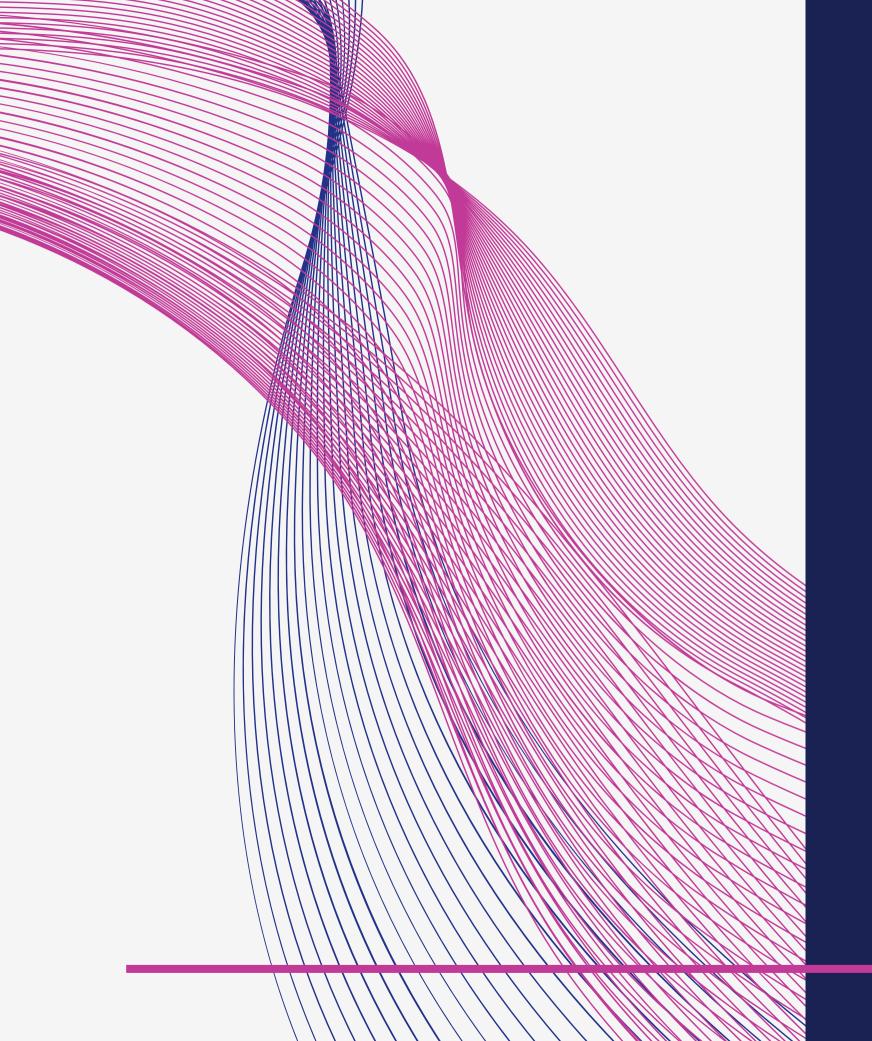
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INTRODUCTION

The purpose of today's analysis is to learn how to use the data from the MONITOR (CERN-01, PARM-01, FERM-01) page to:

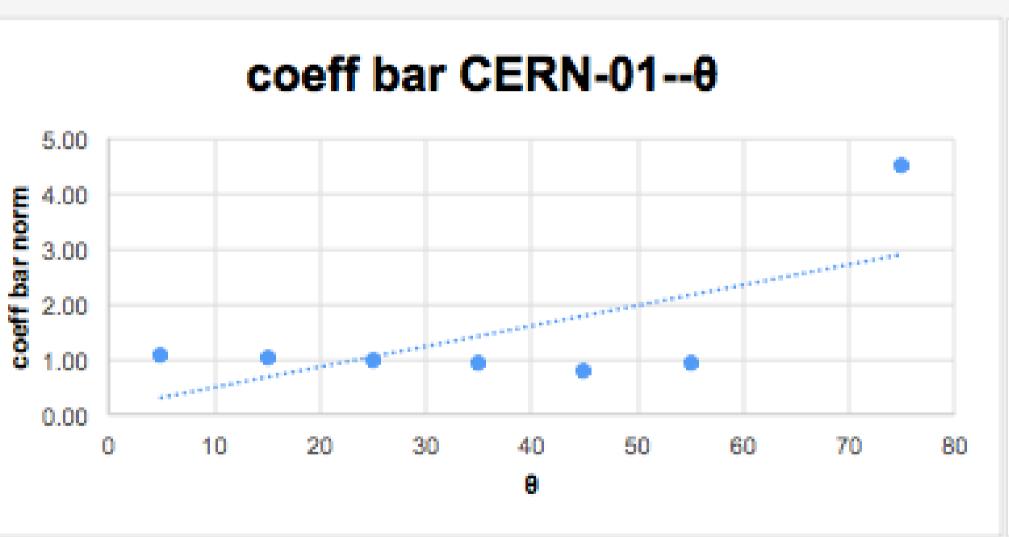
- understand the behaviour of the telescopes
- identify any issuses or anomalies in their operational parametres

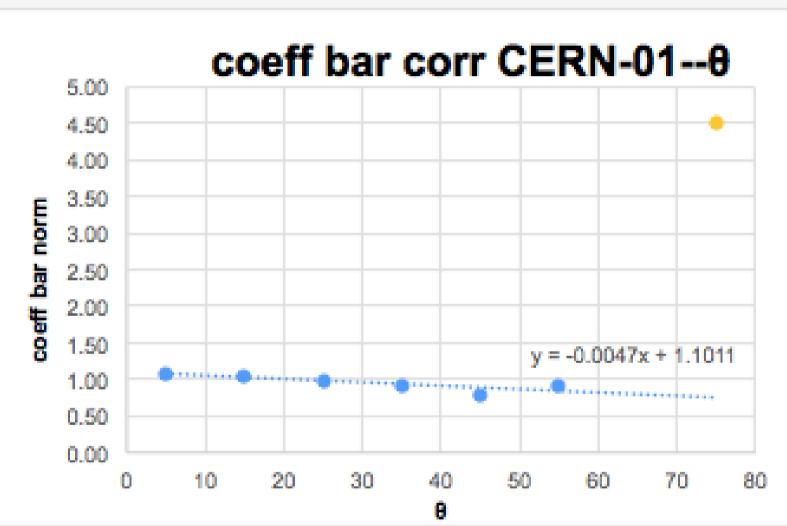
The ultimate goal is to enhance telescope monitoring and maintenance, ensuring optional performance and preventing potential faliures.

Analysis steps

- We studied how different angles of incidence affect the barometric coefficient for CERN-01, PARM-01, FERM-01
- We also analysed how this coefficient changes over a period of time
- In conclusion, we showed the barometric coefficients for different detectors: CERN-01, PARM-01, FERM-01

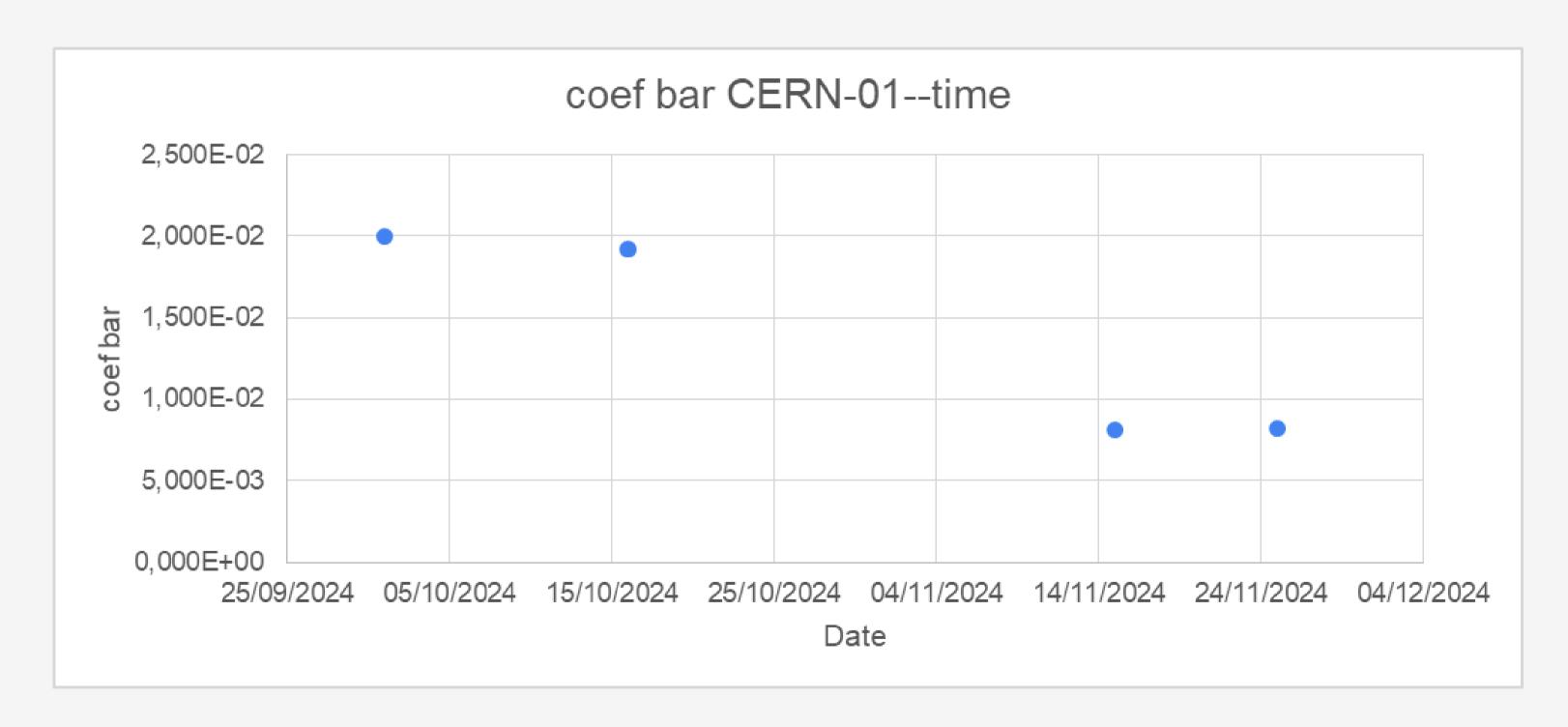
CERN-01





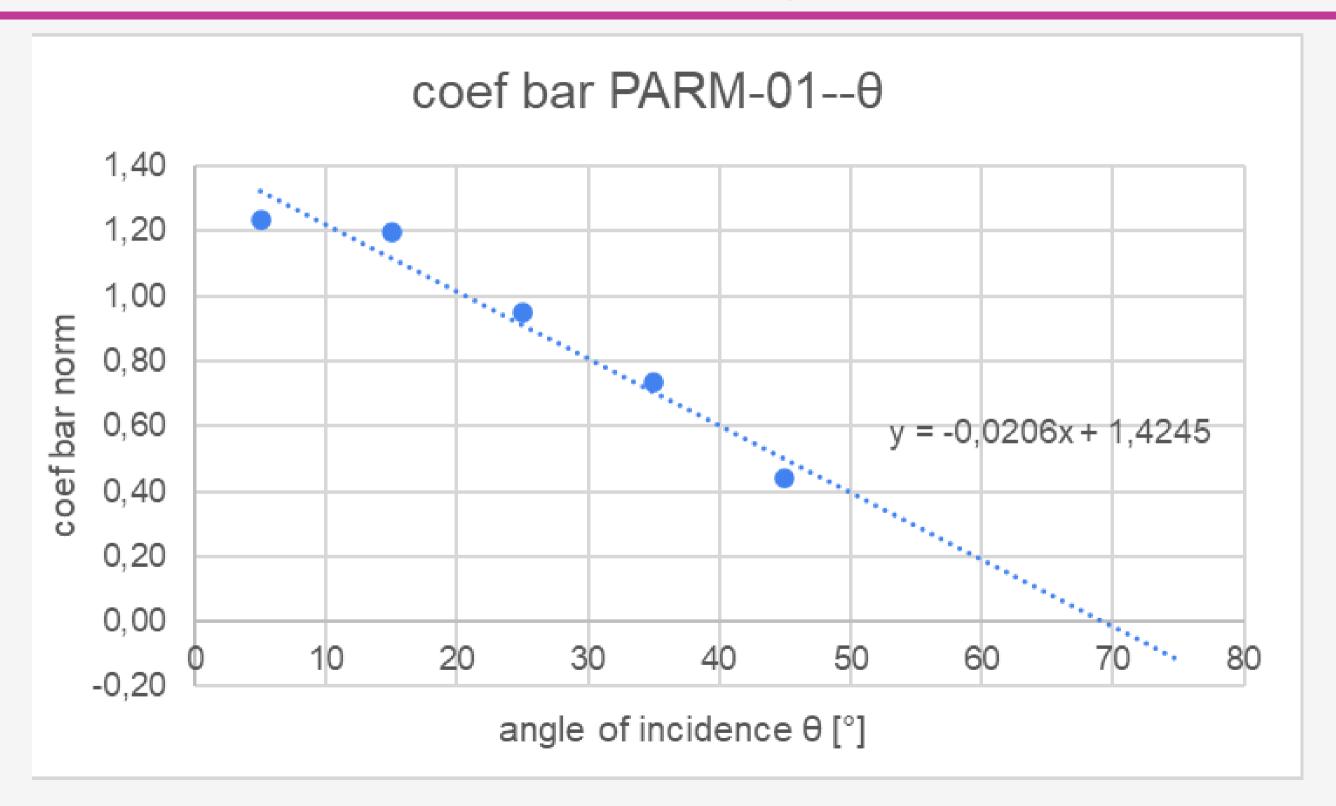
We normalized the barometric coefficients whit respect to the general coefficient, which is We found a rather peculiar value for the barometric coefficient for theta between 60° and 90°. We believe this is caused by backround noise.

CERN-01



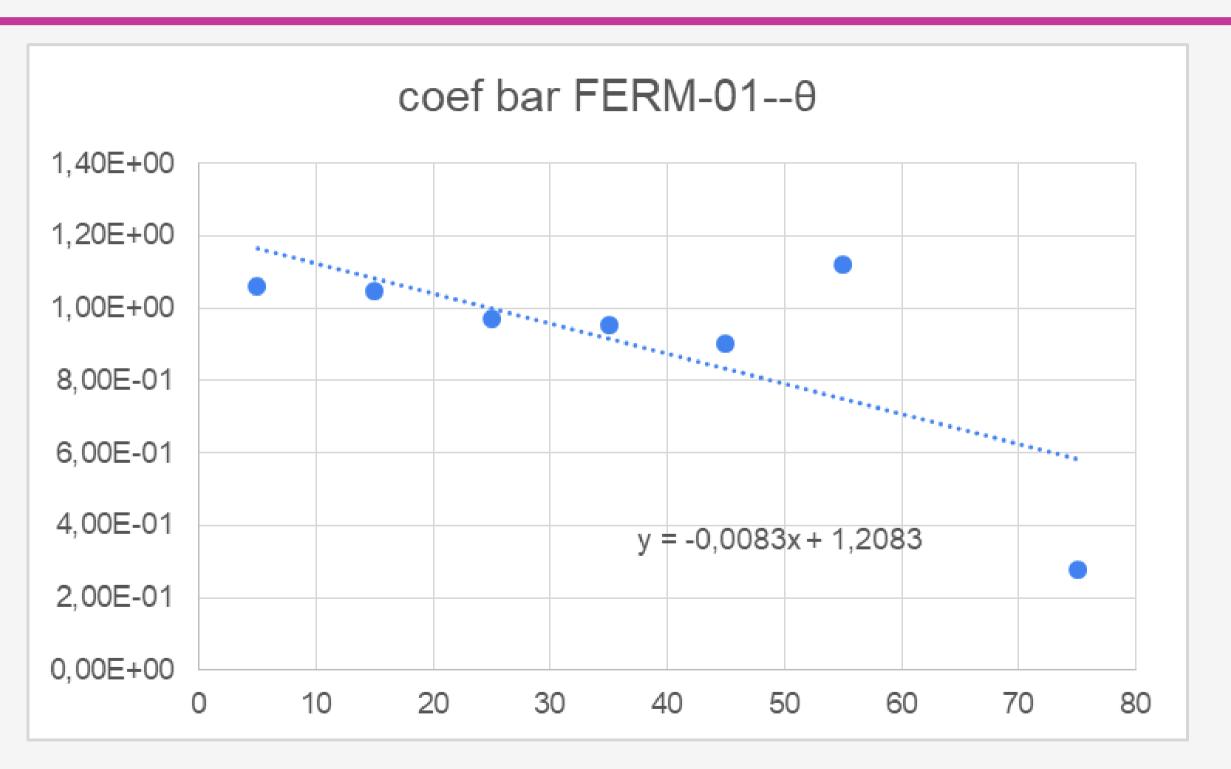
We analyzed how the barometric coefficient changes in function of time: so we considerate date from different time periods.

PARM-01



We have normalized the rates with respect to the general barometric coefficient, which is 0.006.

FERM-01

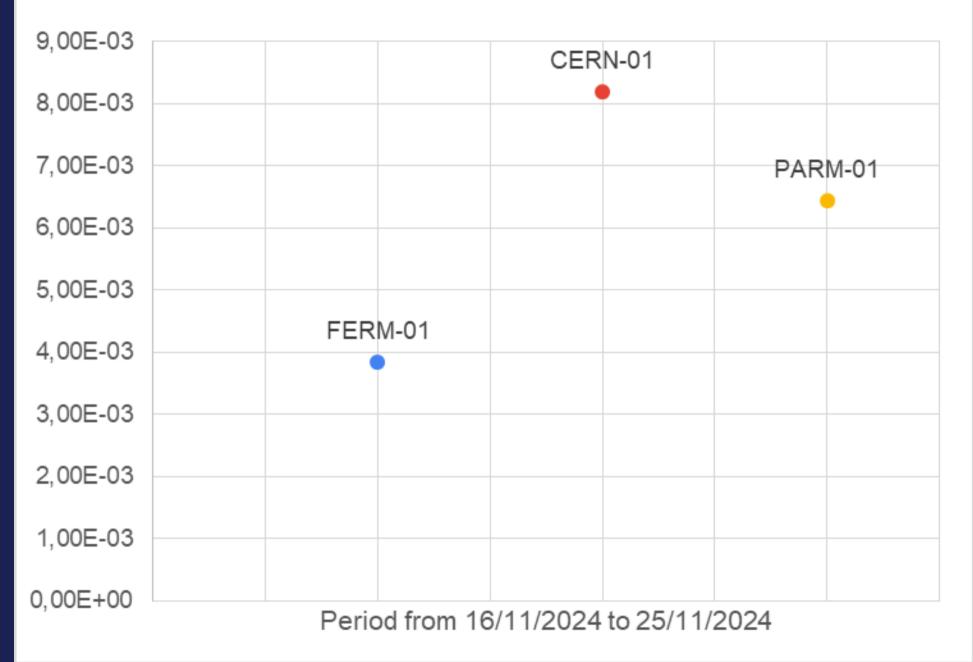


We have normalized the rates with respect to the general barometric coefficient, which is 0,00383.

GENERAL COMPARISON

 We compared the barometric coefficient of different detectors to analyze how much each telescope is affected by pressure.

coef bar across different detectors



07

CONCLUSIONS

- Across different detectors, as theta increases, the barometric coefficient decreases
- For the same detector, the barometric coefficient can vary through time
- In the same period of time, different detectors generally have different barometric coefficients

Group team I THANKS FOR THE ATTENTION



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