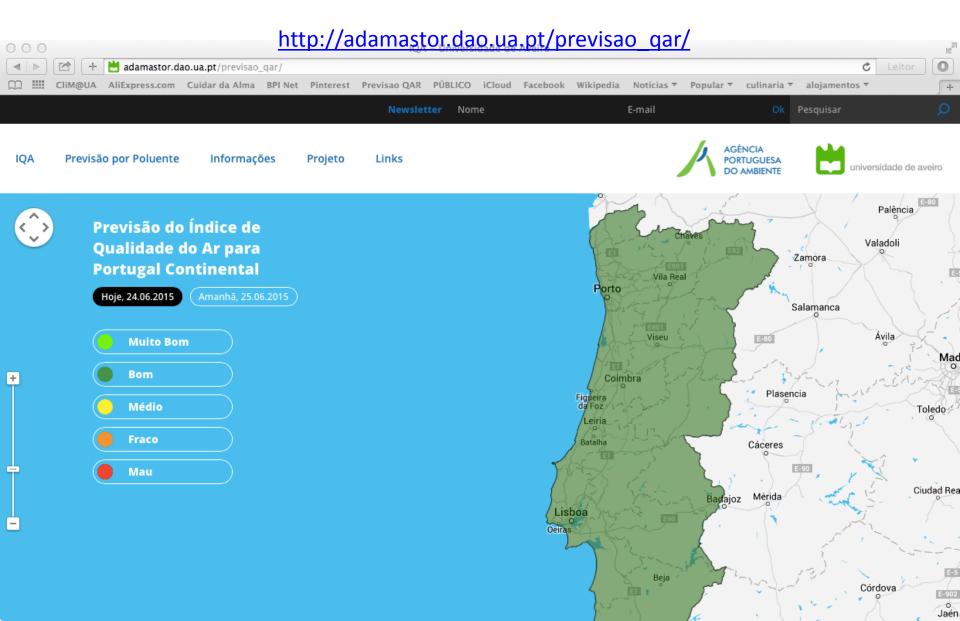
Evaluation of MQO for Portugal WG1 | CCA Forecast

Alexandra Monteiro Ana Patrícia Fernandes Ana Isabel Miranda

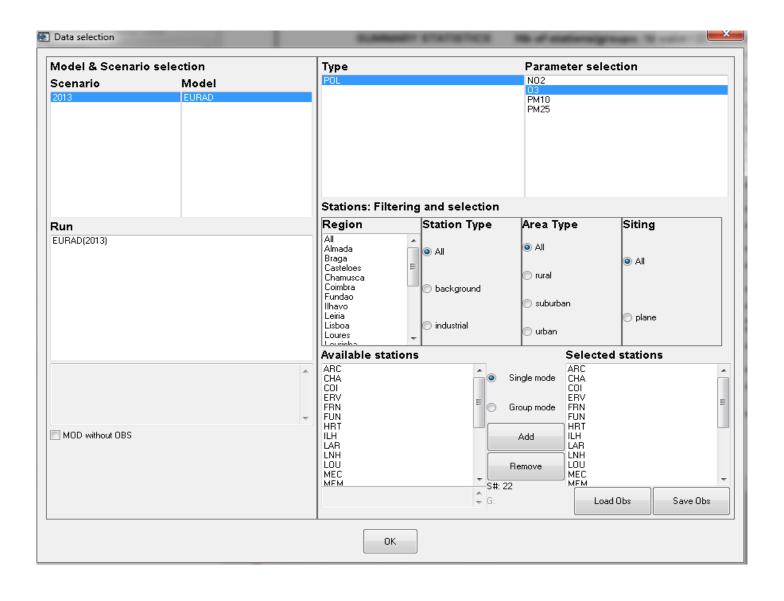




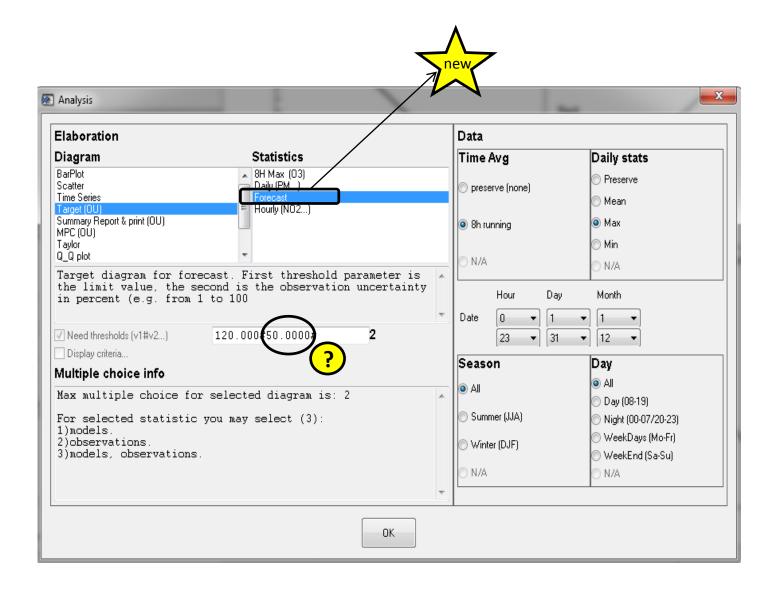
Our air quality forecast web page



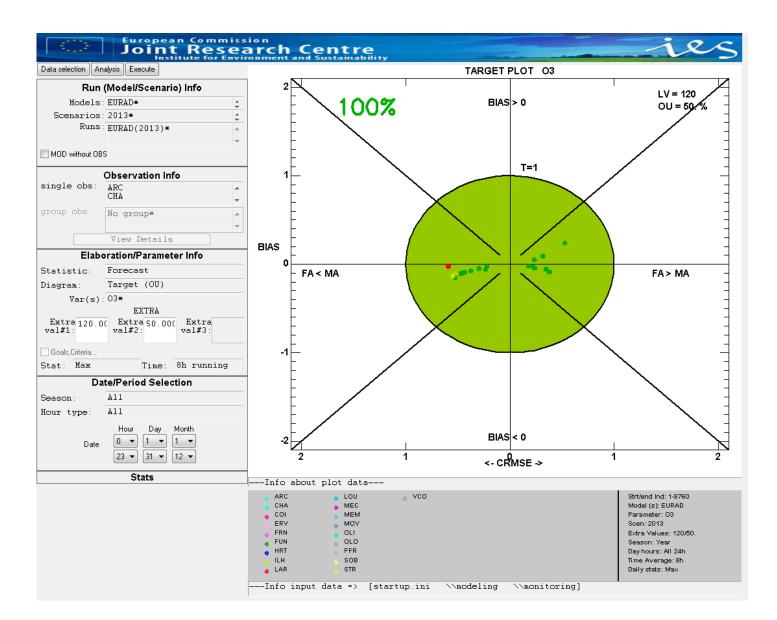
Our application



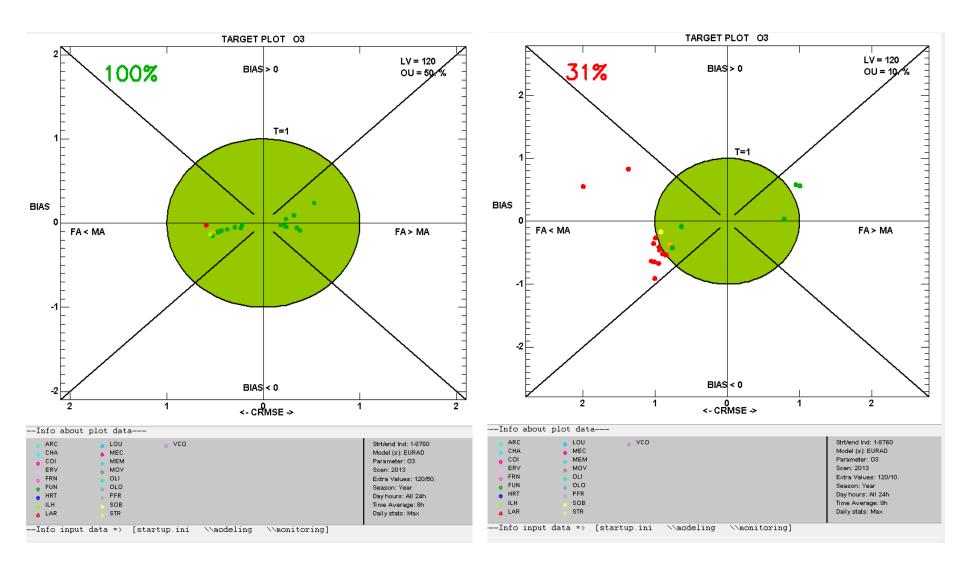
Our application



Our application



The importance of OU



The Indicators

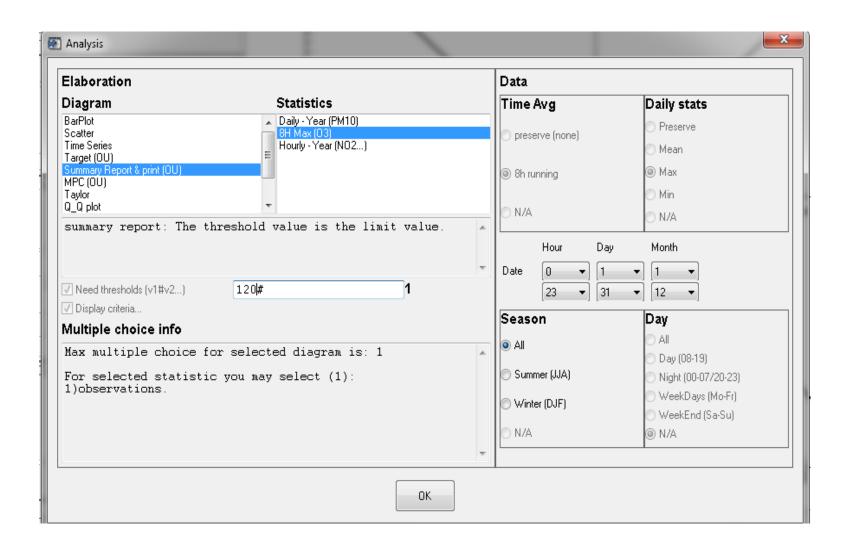
1) Jenny/Amy & Bino suggested to replace the ratio FA/MA along the x-axis by a new indicator combining the probability of good detection of threshold (FCF=GA+/(GA++MA)) and the rate of false alarm (FFA=FA/(GA++FA)).2 formulas are proposed:



- FCF-FFA (if > 0 means FA > MA and if < 0 MA > FA) → Maybe more easy to interpret
- FCF+FFA -1 (if > 0 means FA > MA and if <0 MA > FA)
- 2) For the color of the point, another possibility would be to use the values calculated from GA+/(GA++MA+FA) instead of GA+/(MA+FA) **Yes, we agree!**
- 3) After the preliminary test stage, we notice that the increase of the threshold value leads to better performances due to the fact that higher the threshold is lower is the dataset above the threshold. To address this, the selection of station has been revised to take into account in the evaluation process only the stations with at least one value above the threshold either in the observations or forecast.

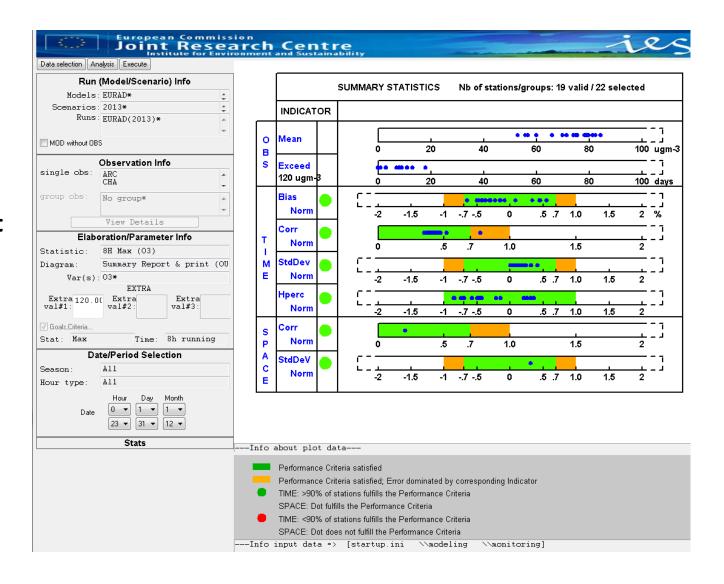
And if there is no values above the threshold? The forecast is still valuable...

The Summary Report



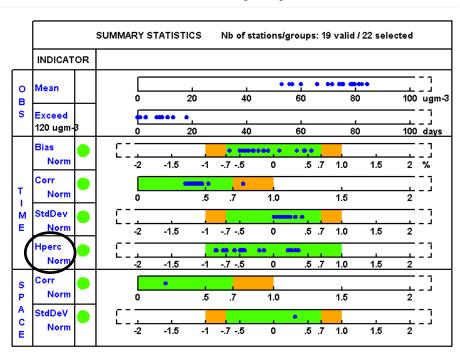
The Summary Report

There is **no forecast indicators** in this summary report

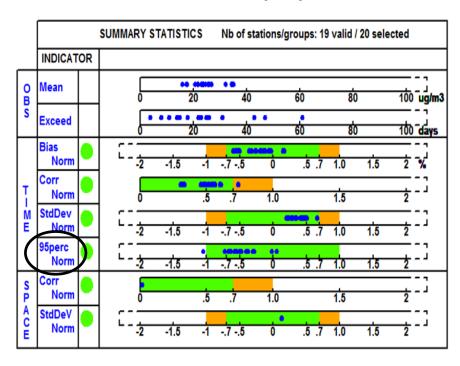


The Summary Report

Our summary report

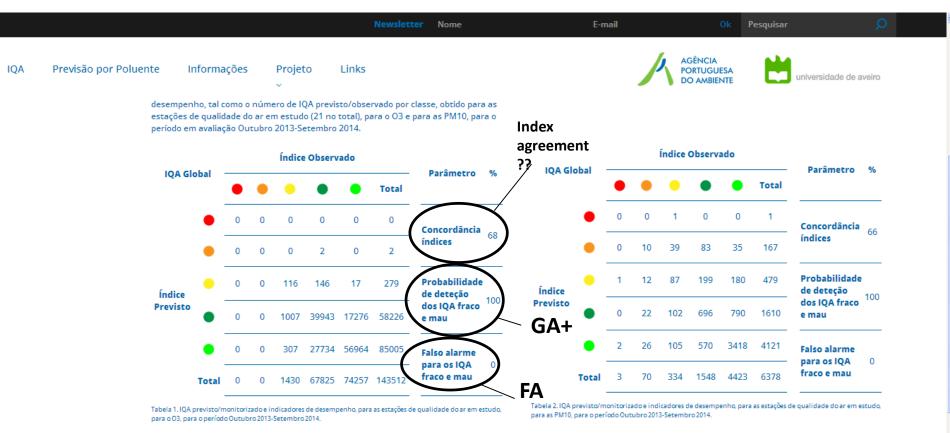


Summary report Guidance 22/01/2015



What kind of statistics would be interesting to implement in the summary report?

http://adamastor.dao.ua.pt/previsao_gar



In the future we plan to replace this information by the DELTA Tool Summary Report!

Next test stage

Evaluation of the MACC forecast



Update of the forecast target diagram document



Some guidance on OU (when there is no information)

- Including forecast indicators on summary report
- Paper preparation!? (for future references)