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Belgian Interregional Environment Agency



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CT: QAQC -protocol

In the introduction:

Existing MQO :

- performance of model results (not models)
- reason: numerous models are authorized for use in the EU
- CENTC264WG42 work +/- finished
(started six years ago)
- conclusion of introduction : 'MQO is not sufficient to guarantee high quality modelling results' in contradiction with CEN work

Missing in the text : QAQC –protocole complementary and not mandatory

CT: QAQC -protocol

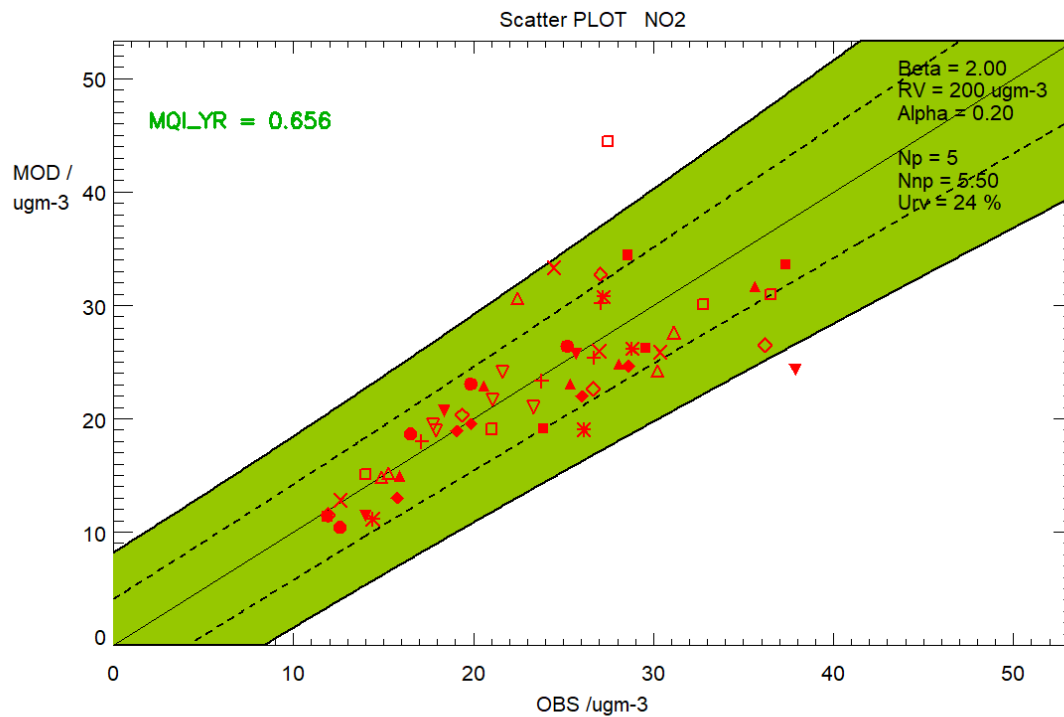
Step 1: current MQO

- in BE we have PS- measurements in hot spots that provide information on spatial variability (and thus on the performance of the spatial variability of our model)
- timing of the pollution peaks (CT 3?)
- suggestion to add NO₂-daily values tot the MQO (WHO-standards)

Step 2 and 3: additional MQO

- tests still have to be done to check indicators
- drawbacks:
 - not all models generate temporal output
 - the number of independant measurement stations are not the same for every type of air quality model and often not that extensive: discussions in the cen workgroup showed that
 - the independent measurement stations should have UB, UT, RB, UB stations, problem of defining a coherent spatial representativeness for EU-measurement stations

CT2: QAQC -protocol



---DeltaTool version 6.0---Info about plot data---

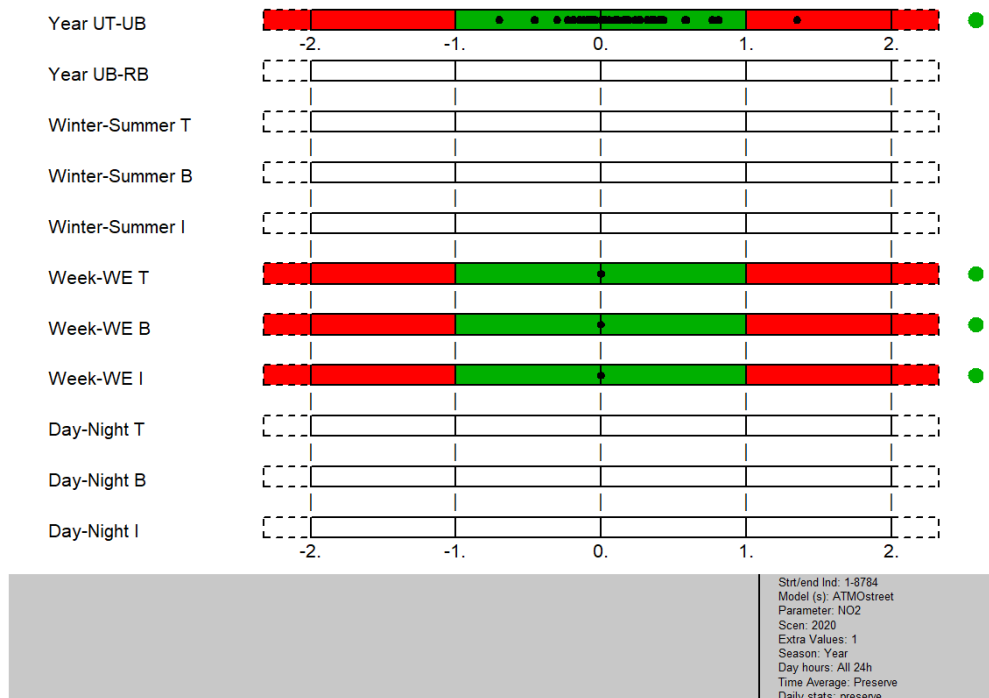
◇ 40AL01	▲ 47E703	▲ 99AT37	▽ 99AT48	◇ 99GN39
◇ 40AT44	■ 47E704	▼ 99AT39	● 99AT49	◇ 99GN40
▲ 42N047	× 47E714	+ 99AT40	● 99BT03	▲ 99GN41
▽ 42R818	◇ 47E715	● 99AT41	▲ 99BT04	▽ 99GN42
● 42R823	◇ 47E716	■ 99AT42	▼ 99DU05	● 99GN43
■ 47E007	▲ 47E814	× 99AT43	+ 99DU06	▲ 99GN44
▲ 47E008	▽ 99AL08	◇ 99AT45	▼ 99GN36	▲ 99GN45
▽ 47E009	● 99AT20	◇ 99AT46	■ 99GN37	▽ 99GN46
+ 47E013	■ 99AT29	▲ 99AT47	× 99GN38	+ 99GN47

Strt/end Ind: 1-8784
Model (s): ATMOSTreet
Parameter: NO2
Scen: 2020
Extra Values: No
Season: Year
Day hours: All 24h
Time Average: Preserve
Daily stats: preserve

---Info input data => [startup.ini \modeling\ \monitoring\]

CT: QAQC -protocol

- ATMOSStreet model seems to perform well for 2020
- no hourly data yet available
- the comparison UT-UB is limited: there is only one! UB independant station available



CT: QAQC -protocol

Conclusion

- QAQC – protocole : not mandatory
- Step 2 and 3 drawback: is the data for this analysis for all models available (number of stations, station types coherent in EU)
- Further steps for the protocol mentioned: link with other fairmode groups ? Not mandatory excercises which possibly can be done at irregular intervals