

BIAS-correction meeting 8-04-2025
Kees, Stijn, Philippe, Enrico, Alex
+ Group contributions

CHMI (CZ)	12
CIEMAT (ES)	18
INERIS (FR)	6
ITAWG (IT)	378
IVU (DE)	6
JRC	12
LANUV (DE)	12
NILU (NO)	12
RIVM (NL)	6
UoA (GR)	16

Total 498 results

Folder PICTS C: All 498 numbered Country-averaged graphics

(SharePoint)

Naming: Cx_BIASPICT_GroupID.tiff

PM25

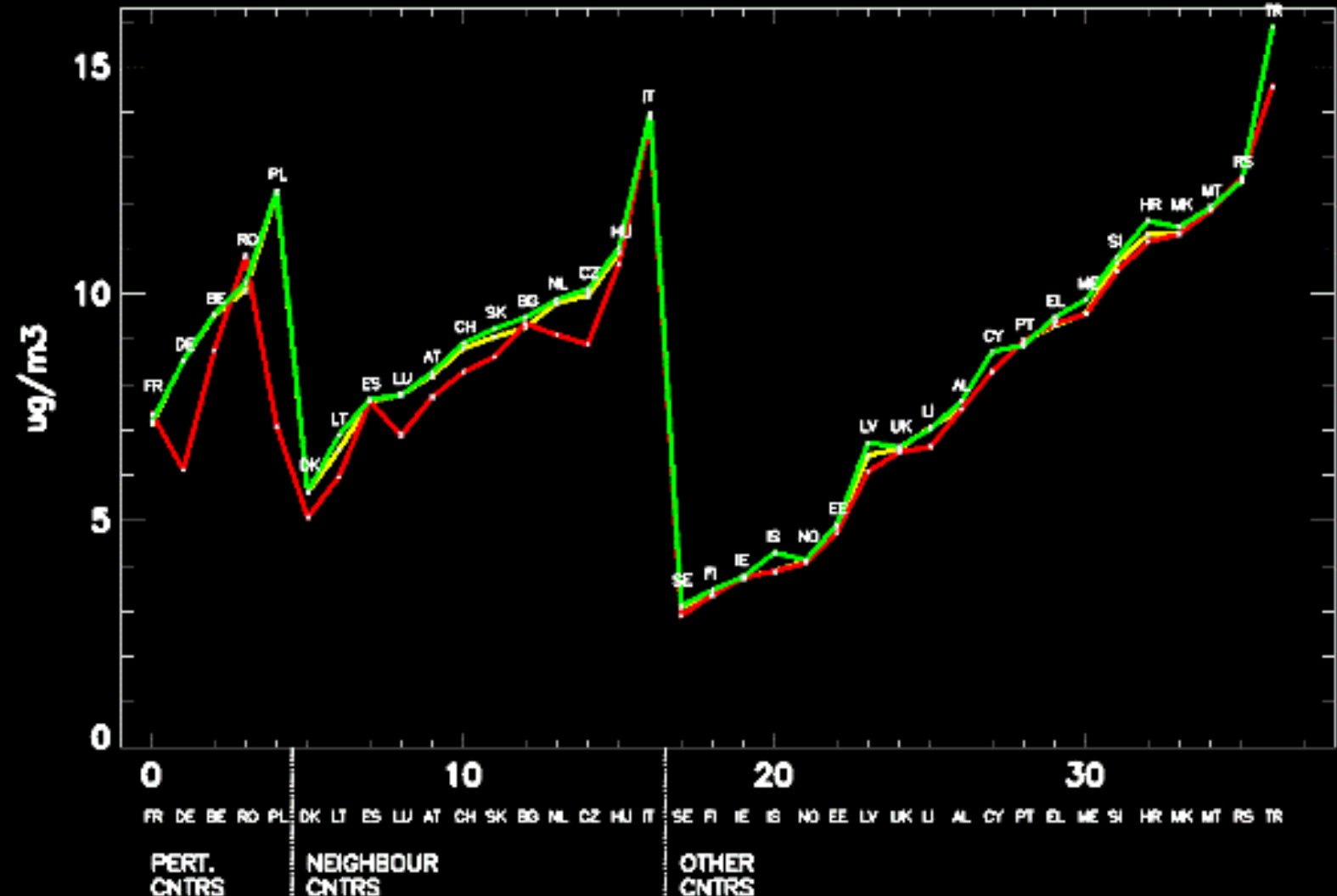
BaseCase JRC (REF)

BaseCase JRC (PERT)

BaseCase GroupID



nStats=3263 (JRC)



PictNr= C.8

Folder PICTS S: All 498 numbered Scatter plots of perturbed countries (SharePoint) (BE,DE,FR,PL,RO)

Naming: Sx_BIASPICT_GroupID.tiff

03

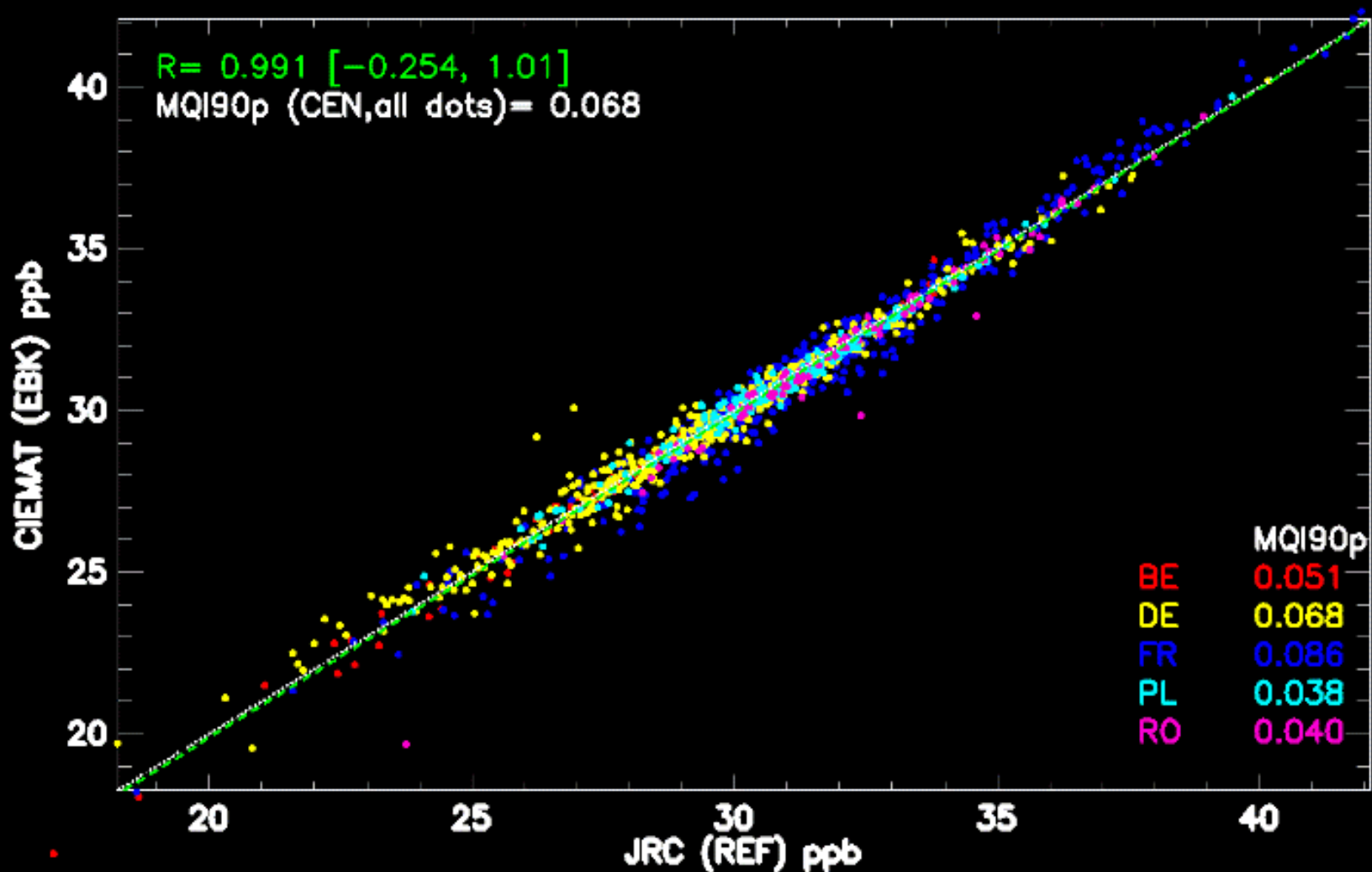
BaseCase JRC (REF)

BaseCase GroupID

MaxXY Value= 50.6



nStats=3263 (JRC)



Analysis_table.xls: First attempt to analyse the results, based on min/max (2D map), and Country-averaged graphics: (CORR-REF)/REF in % (SharePoint)

P= Perturbed
N= Neighbour
O= Others

File Number		Group	Species	Group_Info	Netcdf variable	Min(EUR)	Max(EUR)	Mean(EUR)		
1	BaseCase	CHMI	NO2	SCA.Grid.Lin.mlr	SURF_ug_NO2	Min=0.0003	Max=60.85	Mean=2.684	O	
2	BaseCase	CHMI	O3	SCA.Grid.Lin.mlr	SURF_ppb_O3	Min=10.50	Max=52.65	Mean=37.43	N O	
3	BaseCase	CHMI	PM25	SCA.Grid.Lin.mlr	SURF_ug_PM25_rh50	Min=0.0266	Max=195.40	Mean=5.607	N O	
4	BaseCase	CIEMAT	NO2	EBK	SURF_ug_NO2	Min=0.0000	Max=78.91	Mean=2.293	O	
5	BaseCase	CIEMAT	NO2	Ordkrig	SURF_ug_NO2	Min=0.0000	Max=78.58	Mean=2.274	O	
6	BaseCase	CIEMAT	O3	EBK	SURF_ppb_O3	Min=4.944	Max=53.17	Mean=37.51	OK	
7	BaseCase	CIEMAT	O3	Ordkrig	SURF_ppb_O3	Min=5.215	Max=52.90	Mean=37.52	OK	
8	BaseCase	CIEMAT	PM25	EBK	SURF_ug_PM25_rh50	Min=0.0000	Max=290.21	Mean=5.603	N	!Max
9	BaseCase	CIEMAT	PM25	Ordkrig	SURF_ug_PM25_rh50	Min=0.3934	Max=289.63	Mean=5.733	OK	!Max
10	BaseCase	INERIS	NO2	SCA.Cell.Mult.Ked	SURF_ug_NO2	Min=0.0000	Max=81.61	Mean=2.028	N	
11	BaseCase	INERIS	O3	SCA.Cell.Mult.Ked	SURF_ppb_O3	Min=1.451	Max=53.74	Mean=37.65	OK	
12	BaseCase	INERIS	PM25	SCA.Cell.Mult.Ked	SURF_ug_PM25_rh50	Min=0.0017	Max=442.18	Mean=5.418	OK	!Max
13	BaseCase	ITAWG	NO2	CA.All.Add	SURF_ug_NO2	Min=0.3151	Max=78.57	Mean=2.123	P no corr	
14	BaseCase	ITAWG	NO2	CA.All.Lin	SURF_ug_NO2	Min=0.7837	Max=75.11	Mean=2.500	P no corr	
15	BaseCase	ITAWG	NO2	CA.All.Mult	SURF_ug_NO2	Min=0.0593	Max=80.46	Mean=1.916	P no corr	



Excel file

Analysis: Country-averaged graphics

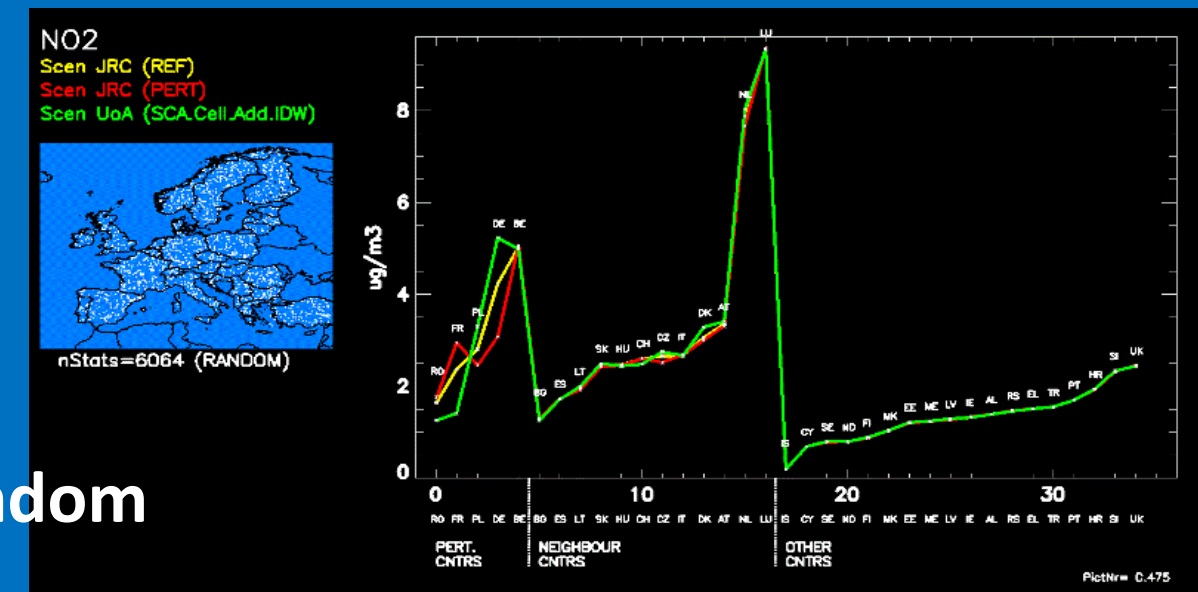
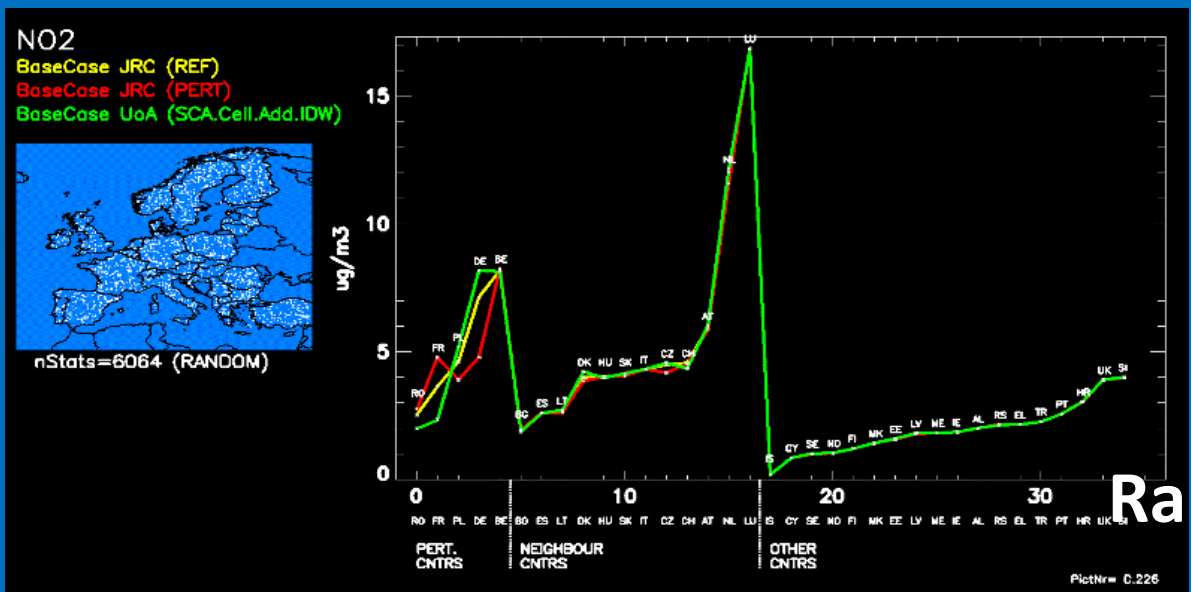
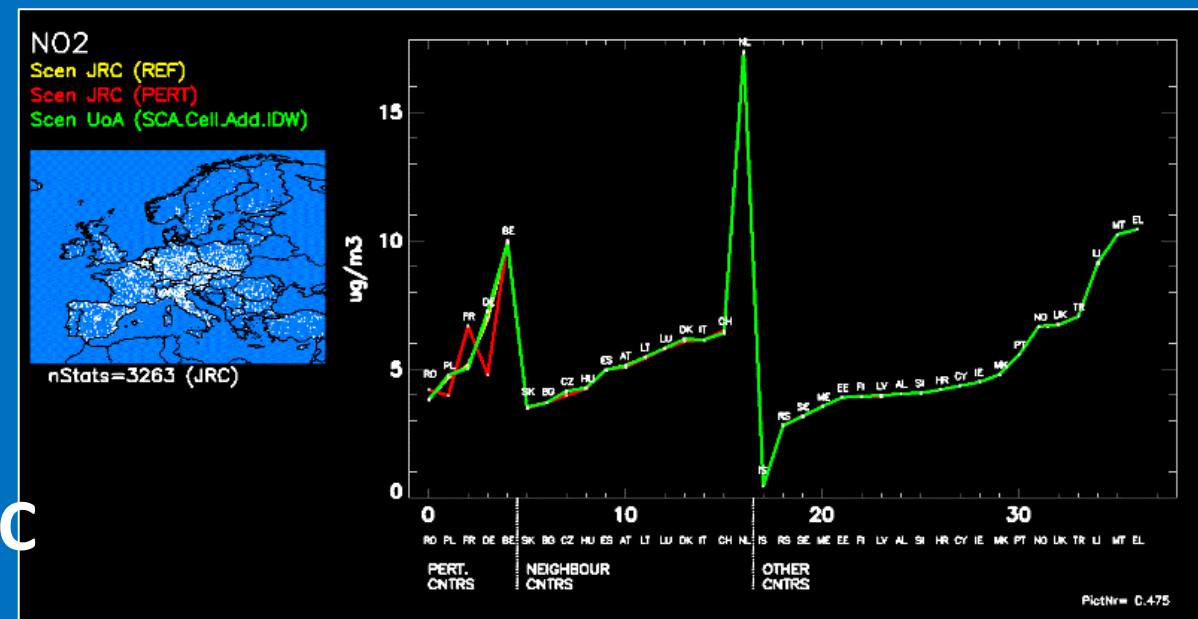
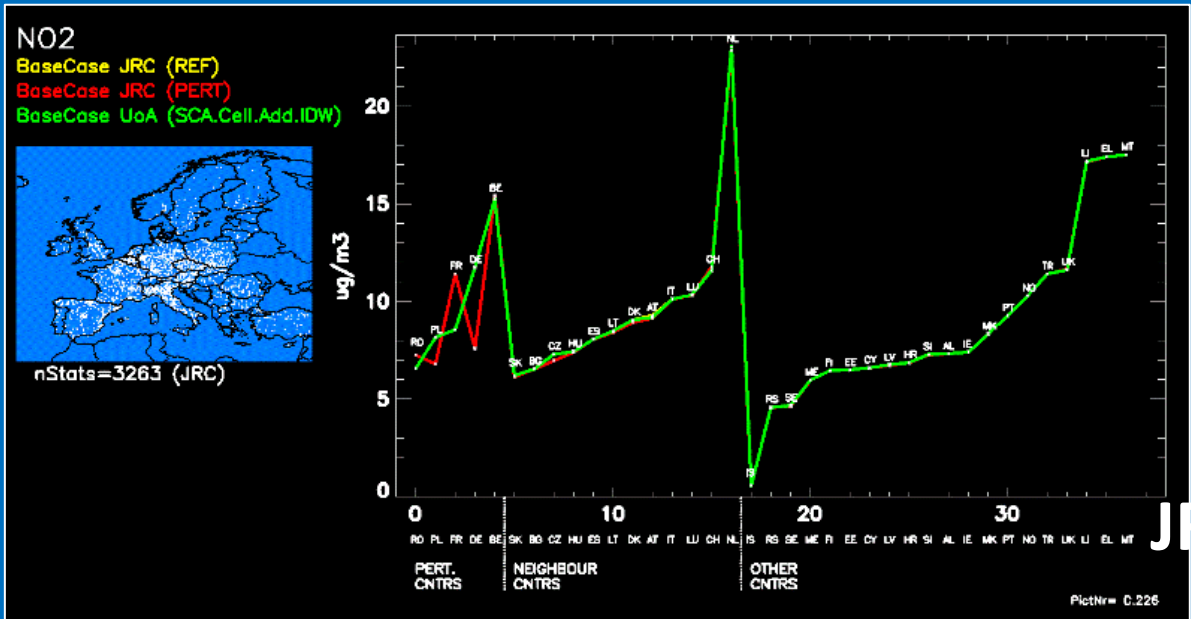
- i) BaseCase – JRC stations
- ii) BaseCase – Random locations
- iii) Scenario – JRC stations
- iv) Scenario – Random locations

Examples: UoA for NO₂, O₃, and PM_{2.5}
ITAWG for NO₂
CIEMAT for O₃, Yearly and Daily

NO2 UoA SCA.Cell.Add.IDW

BC

Scen



Random

O3 UoA SCA.Cell.Add.IDW

BC

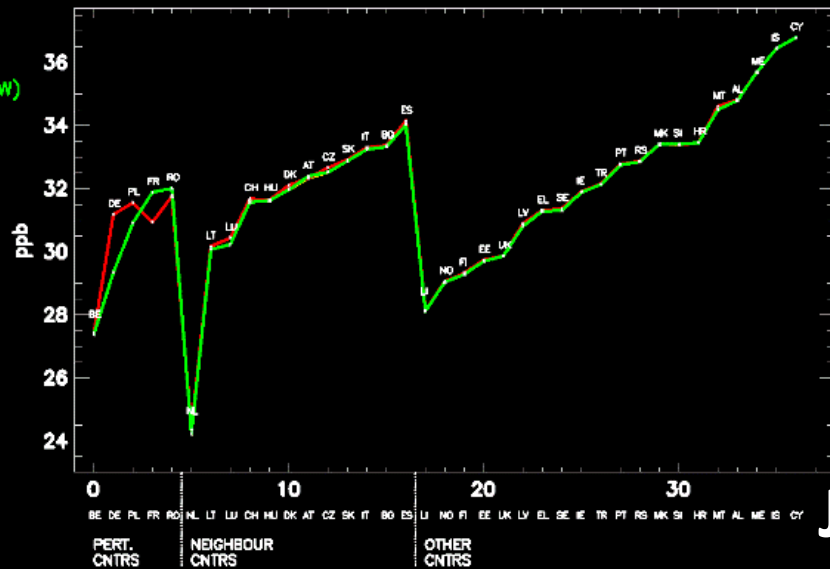
Scen

O3

BaseCase JRC (REF)
BaseCase JRC (PERT)
BaseCase UoA (SCA.Cell.Add.IDW)



nStats=3263 (JRC)



PictNr= C.232

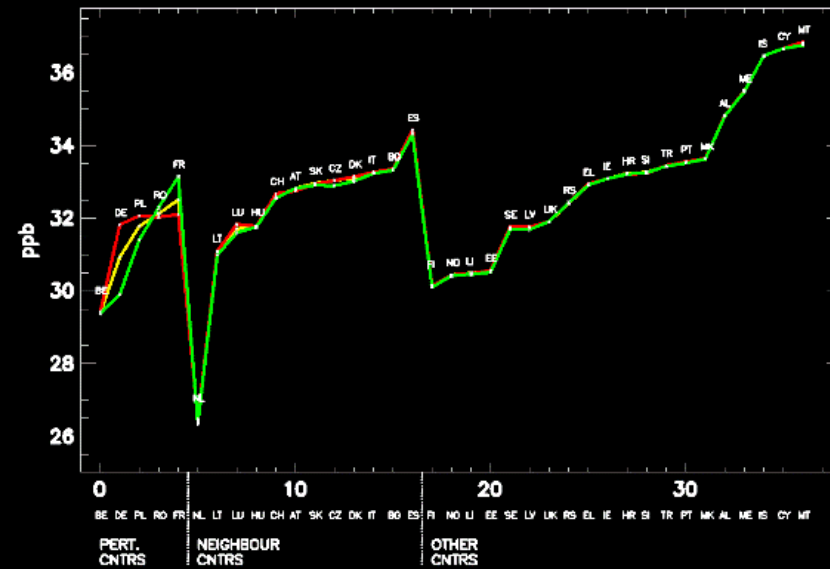
JRC

O3

Scen JRC (REF)
Scen JRC (PERT)
Scen UoA (SCA.Cell.Add.IDW)



nStats=3263 (JRC)



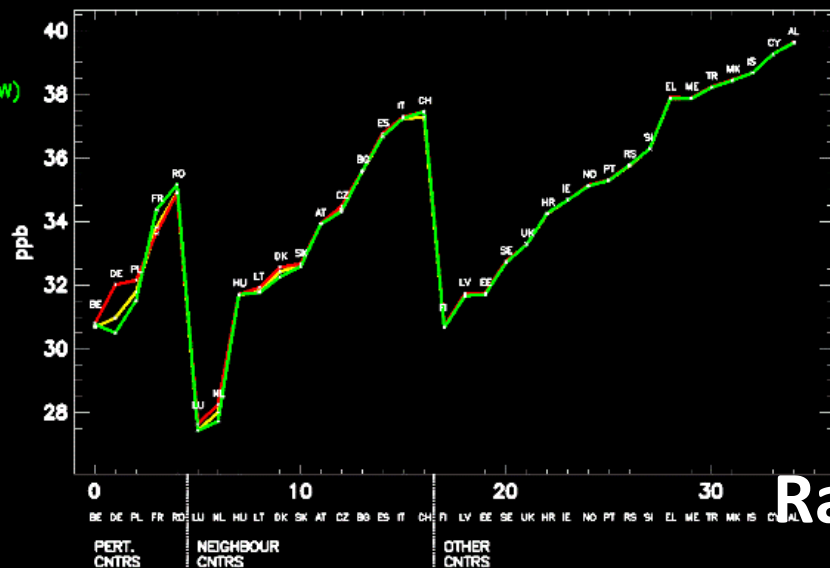
PictNr= C.481

O3

BaseCase JRC (REF)
BaseCase JRC (PERT)
BaseCase UoA (SCA.Cell.Add.IDW)



nStats=6064 (RANDOM)



PictNr= C.232

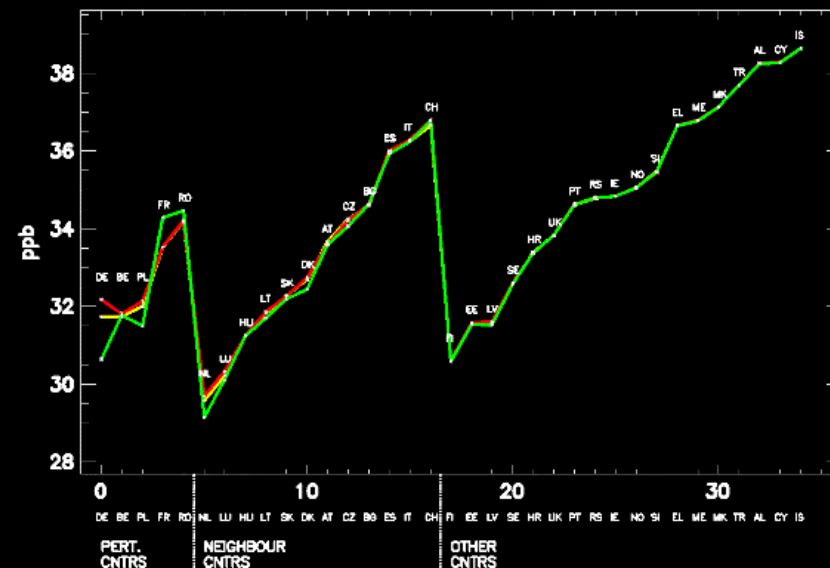
Random

O3

Scen JRC (REF)
Scen JRC (PERT)
Scen UoA (SCA.Cell.Add.IDW)



nStats=6064 (RANDOM)



PictNr= C.481

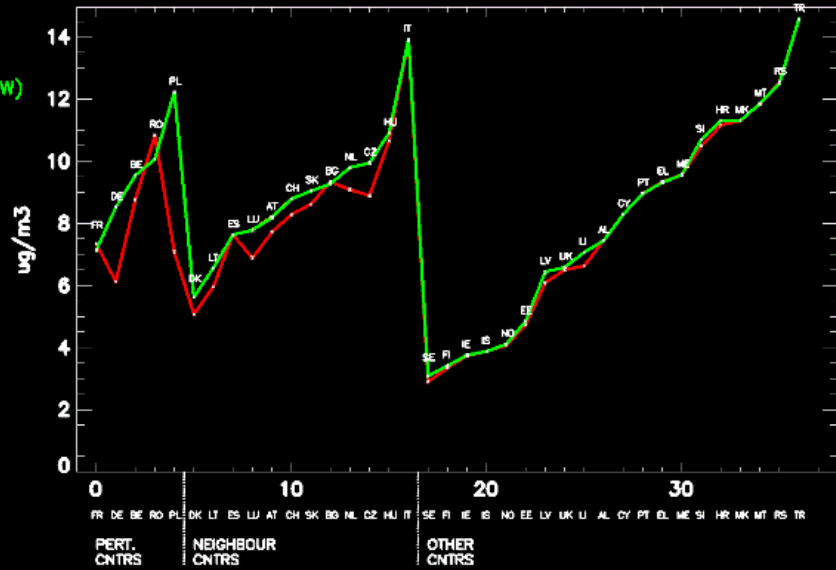
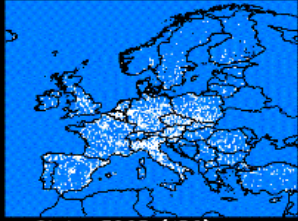
PM25 UoA SCA.Cell.Add.IDW

BC

Scen

PM25

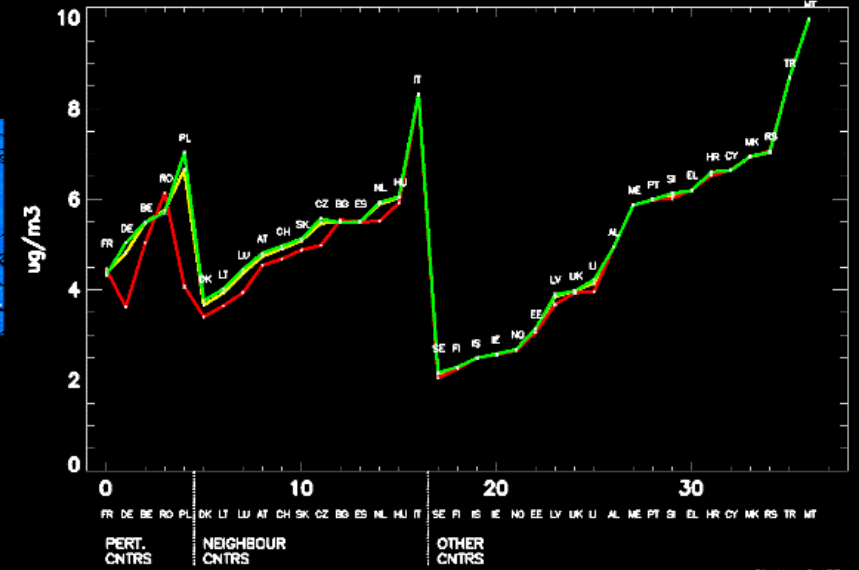
BaseCase JRC (REF)
BaseCase JRC (PERT)
BaseCase UoA (SCA.Cell.Add.IDW)



JRC

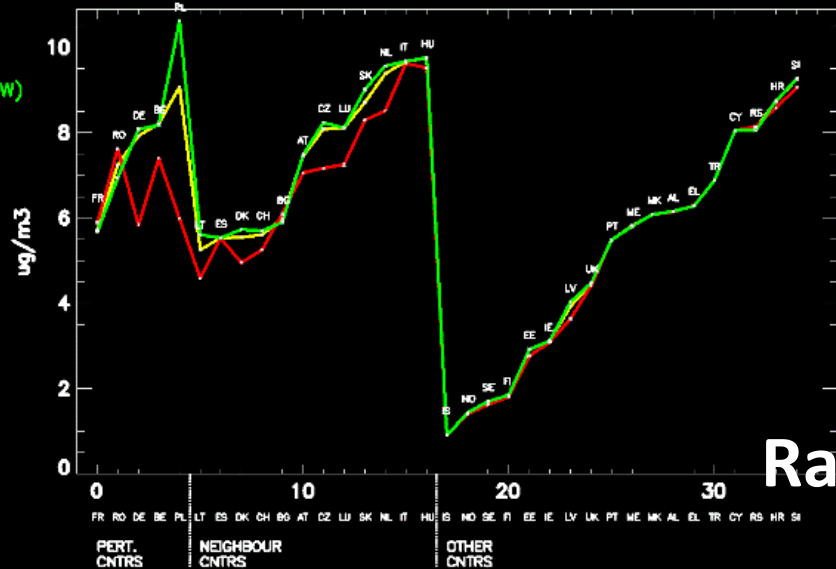
PM25

Scen JRC (REF)
Scen JRC (PERT)
Scen UoA (SCA.Cell.Add.IDW)



PM25

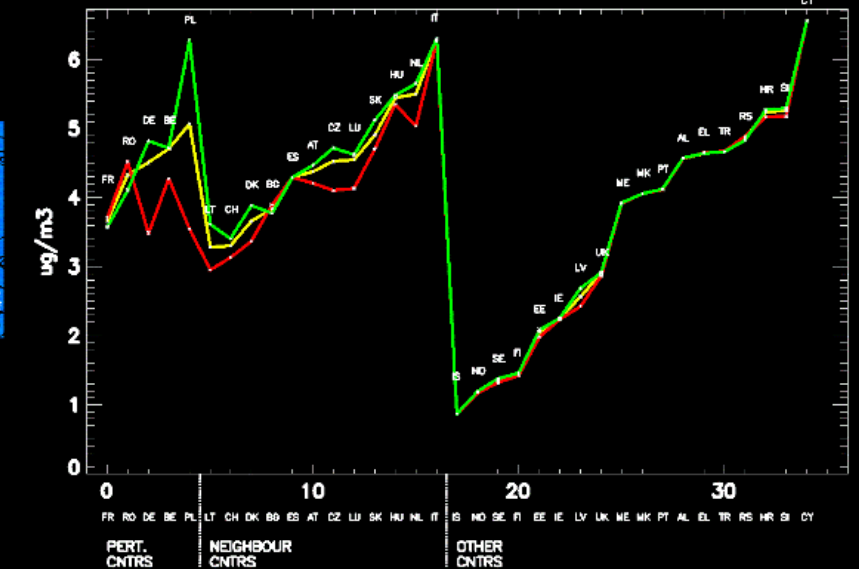
BaseCase JRC (REF)
BaseCase JRC (PERT)
BaseCase UoA (SCA.Cell.Add.IDW)



Random

PM25

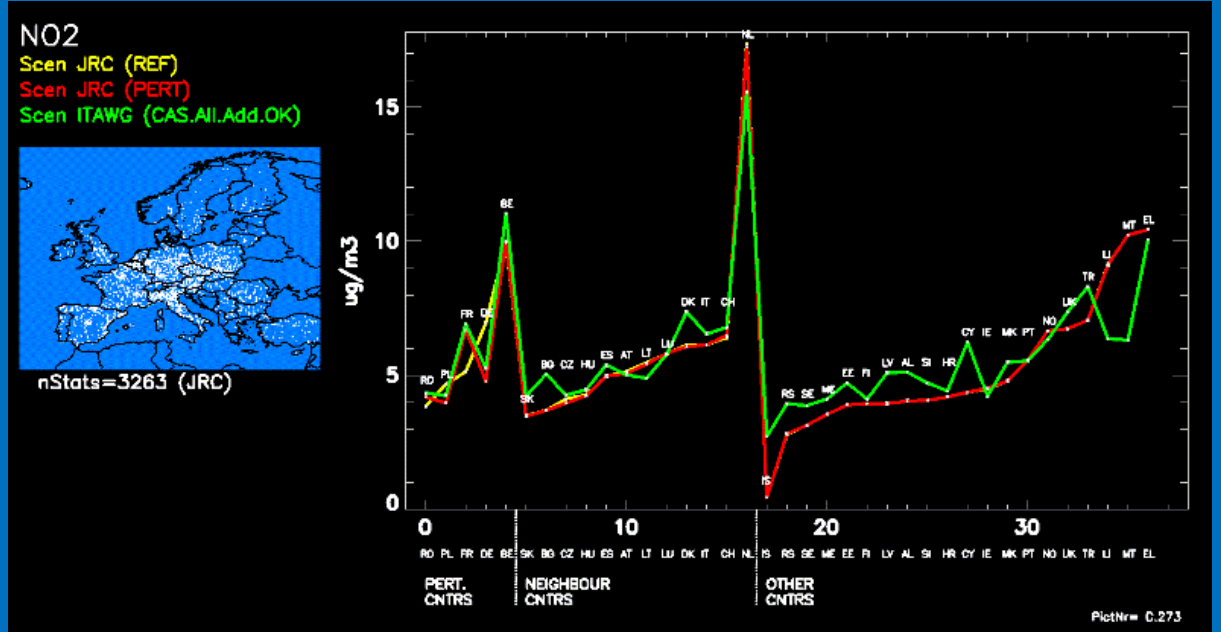
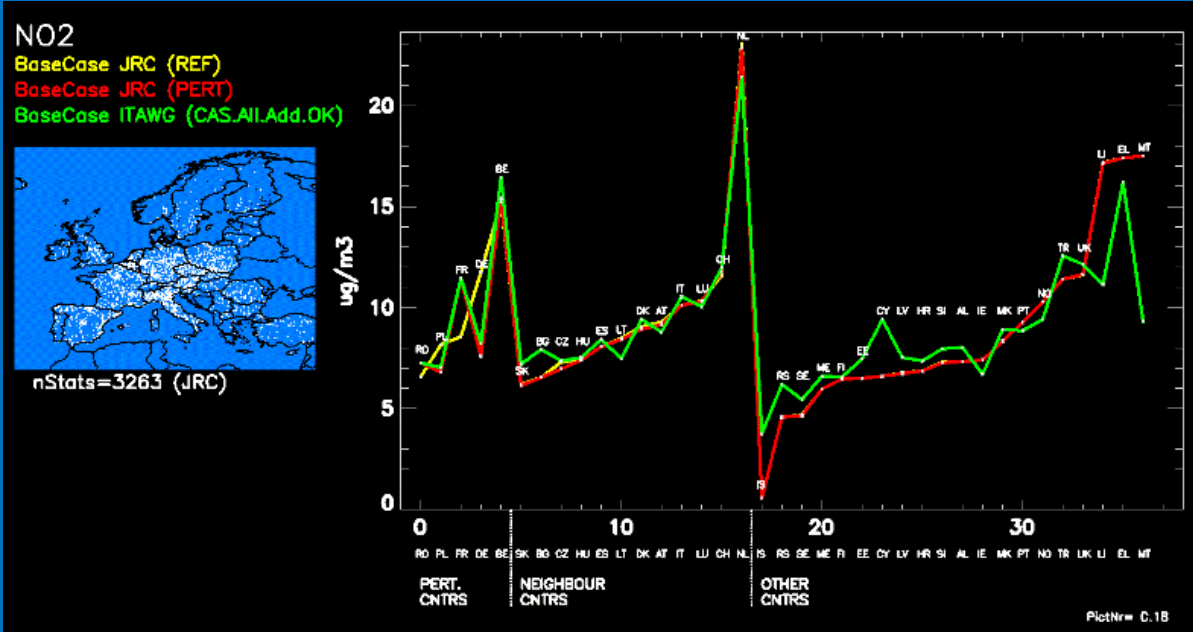
Scen JRC (REF)
Scen JRC (PERT)
Scen UoA (SCA.Cell.Add.IDW)



NO2 ITAWG CAS.All.Add.OK

BC

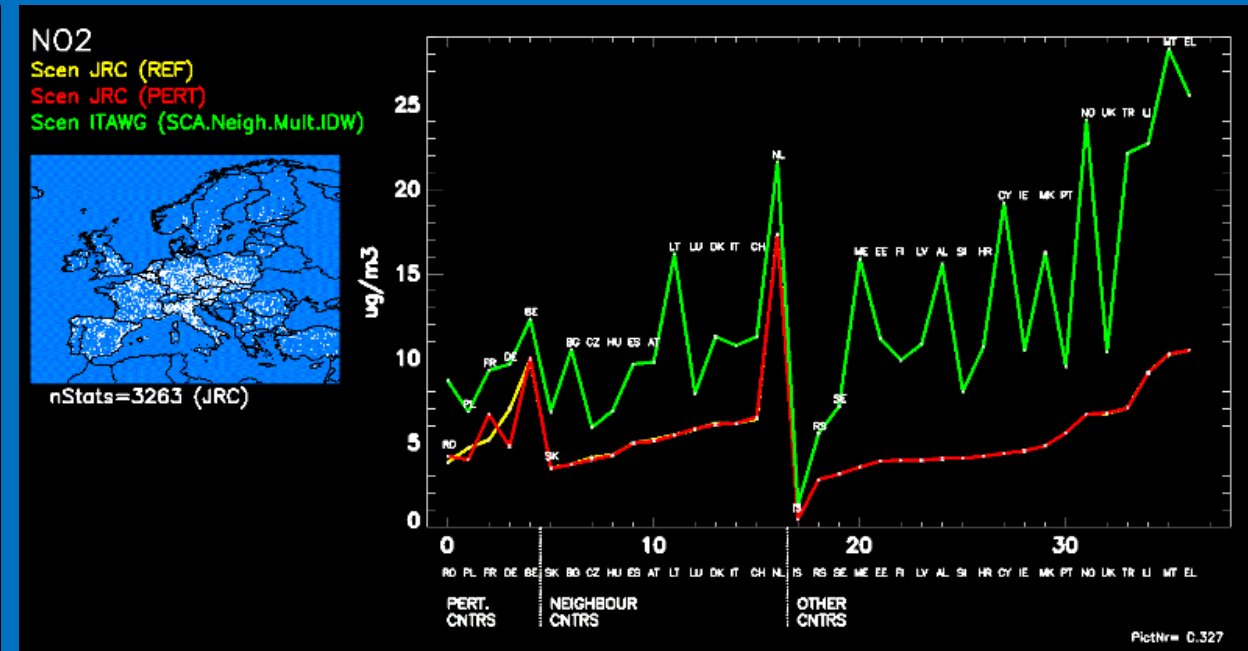
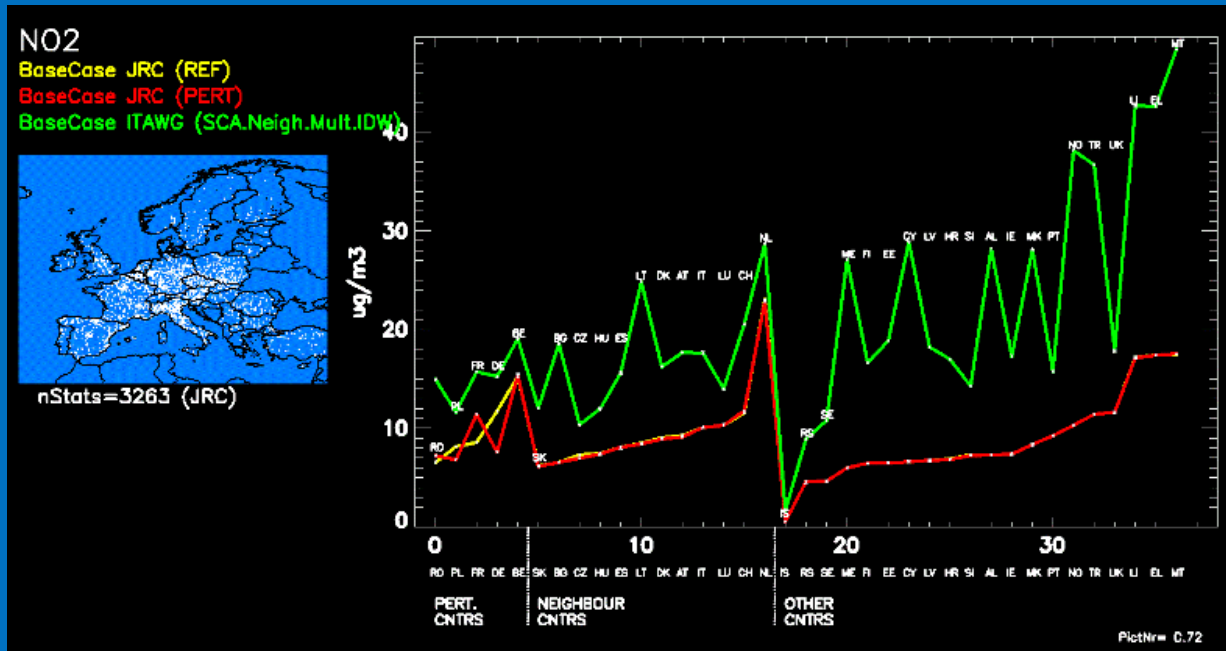
Scen



PM25 ITAWG SCA.Neigh.Mult.IDW

BC

Scen



Note: The two examples here are absolutely not representative of all the good work done by ITAWG. I just wanted to show a few cases for which the method does not do the job.

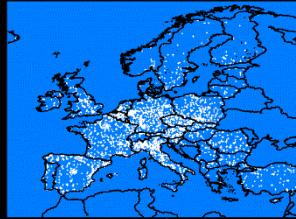
O3 CIEMAT EBK

BC

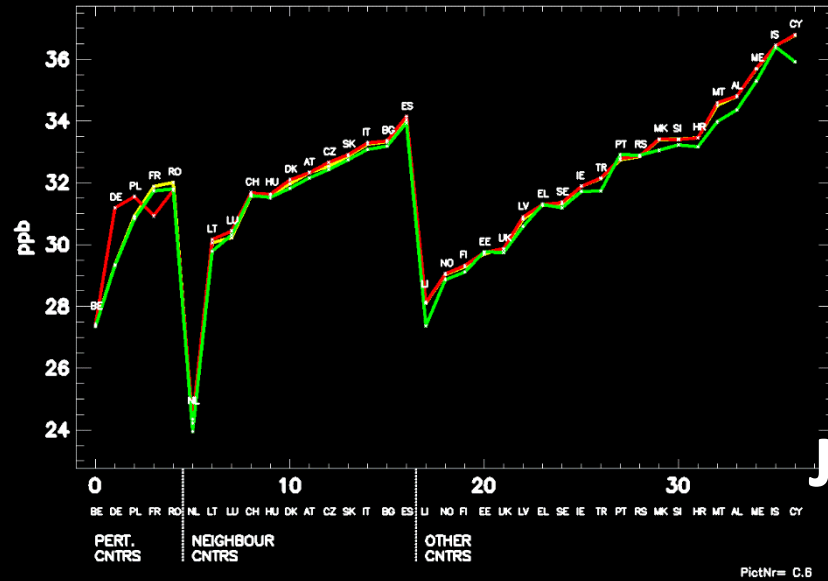
Scen

O3

BaseCase JRC (REF)
BaseCase JRC (PERT)
BaseCase CIEMAT (EBK)



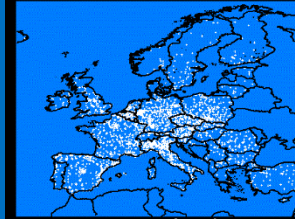
nStats=3263 (JRC)



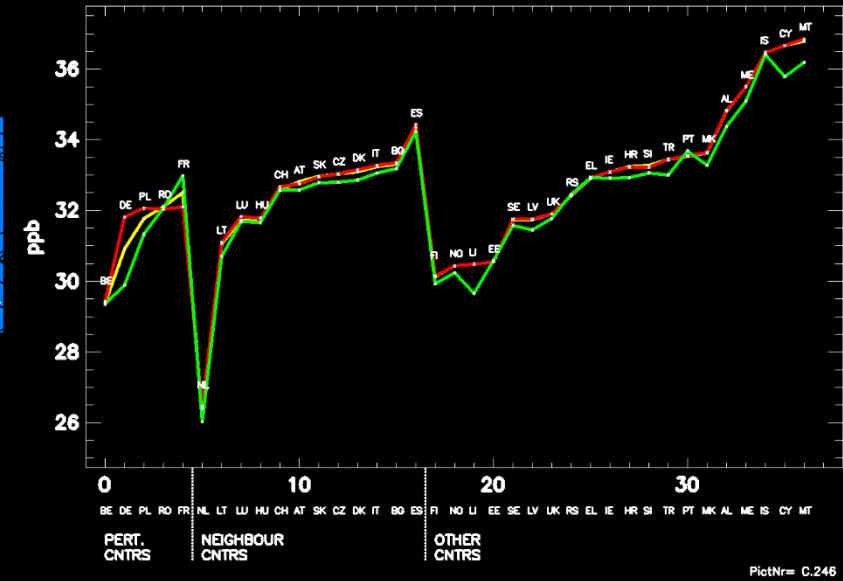
JRC

O3

SCEN JRC (REF)
SCEN JRC (PERT)
SCEN CIEMAT (EBK)



nStats=3263 (JRC)



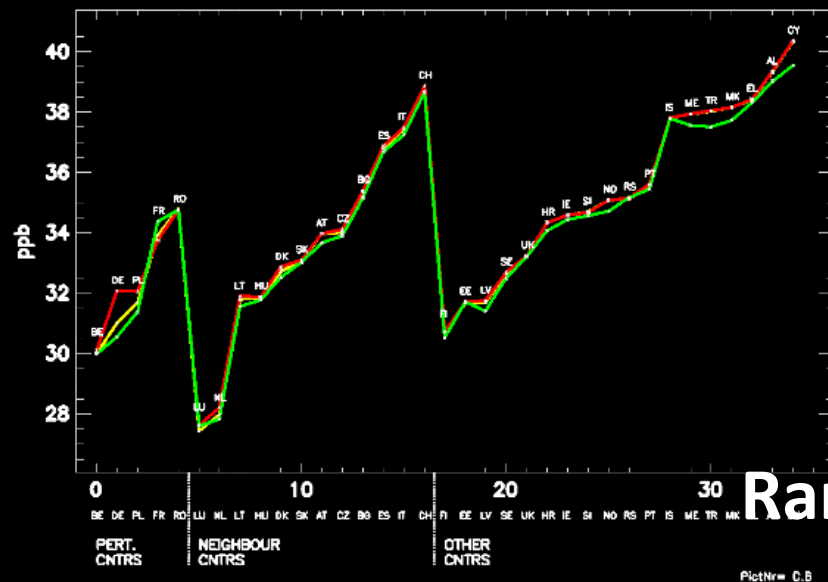
PlotNr= C.246

O3

BaseCase JRC (REF)
BaseCase JRC (PERT)
BaseCase CIEMAT (EBK)



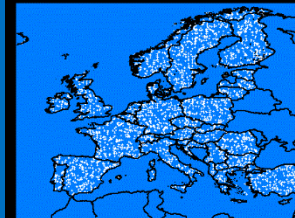
nStats=8033 (RANDOM)



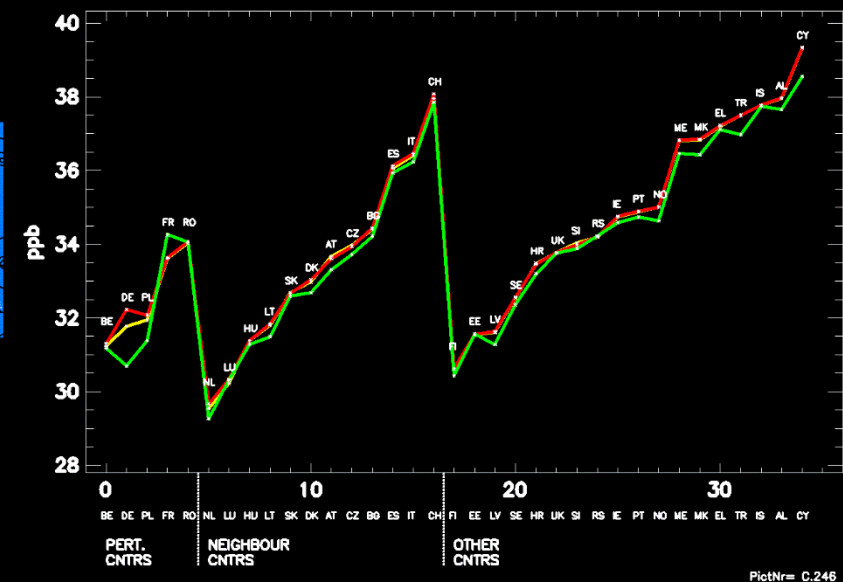
Random

O3

SCEN JRC (REF)
SCEN JRC (PERT)
SCEN CIEMAT (EBK)



nStats=8033 (RANDOM)



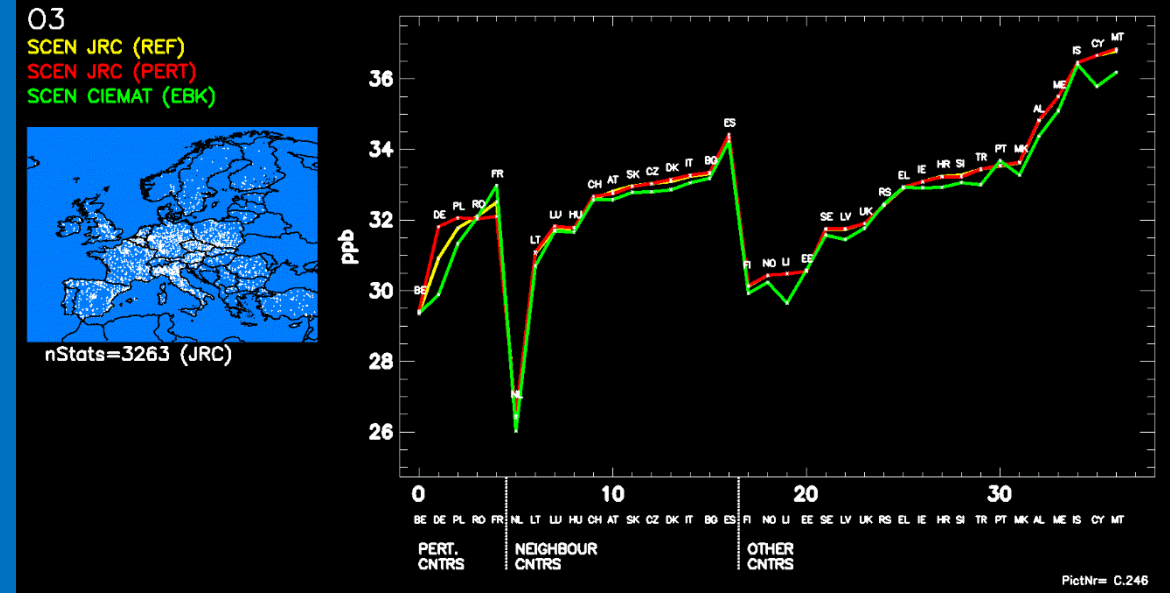
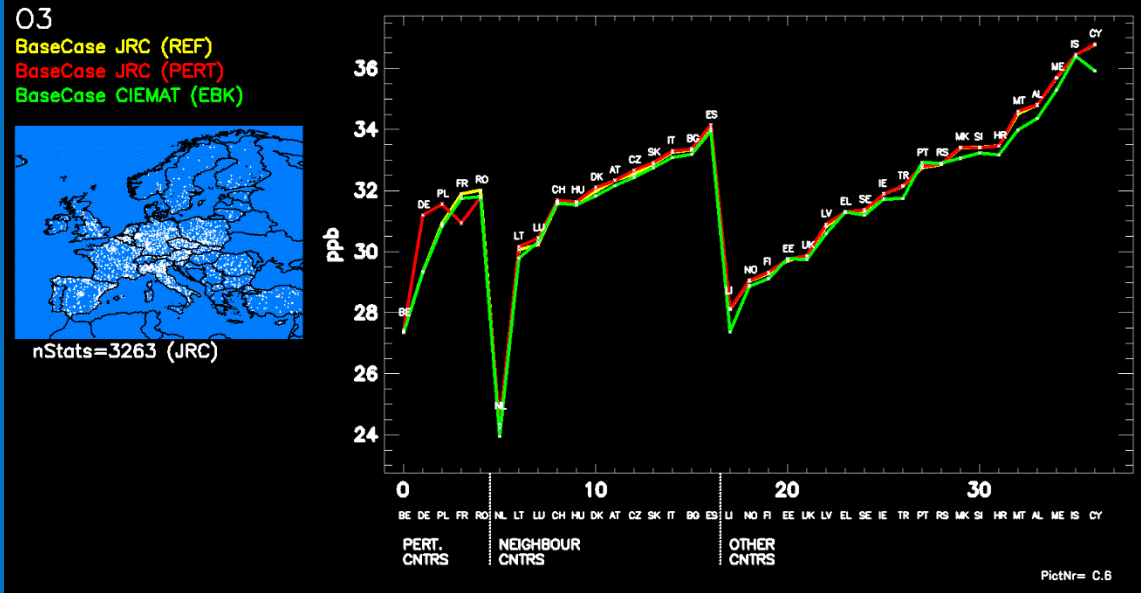
PlotNr= C.246

O3 CIEMAT EBK

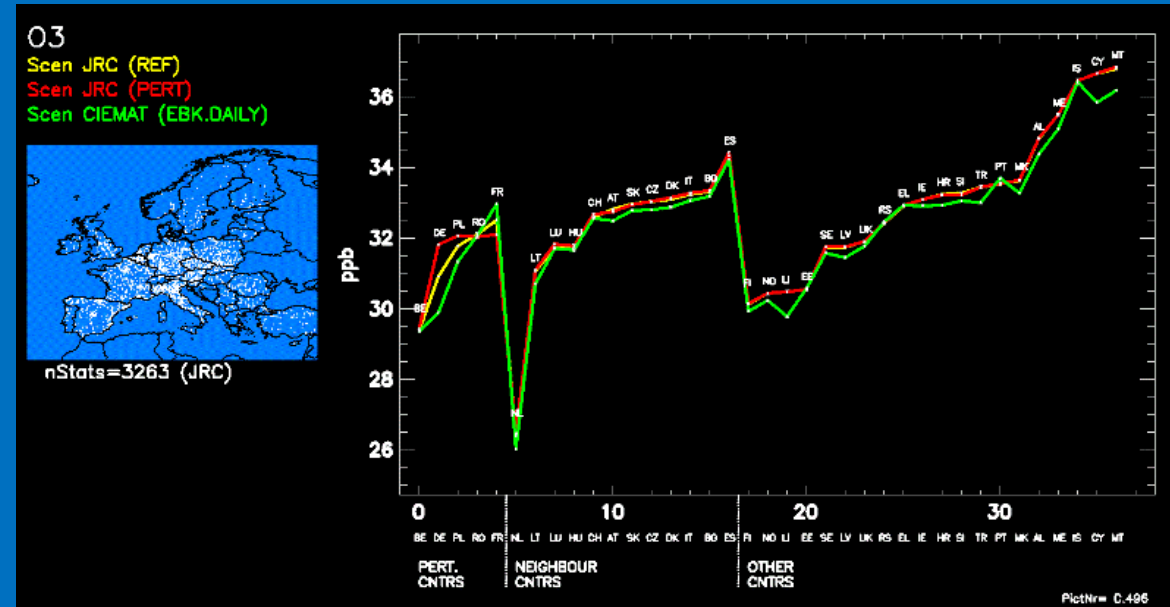
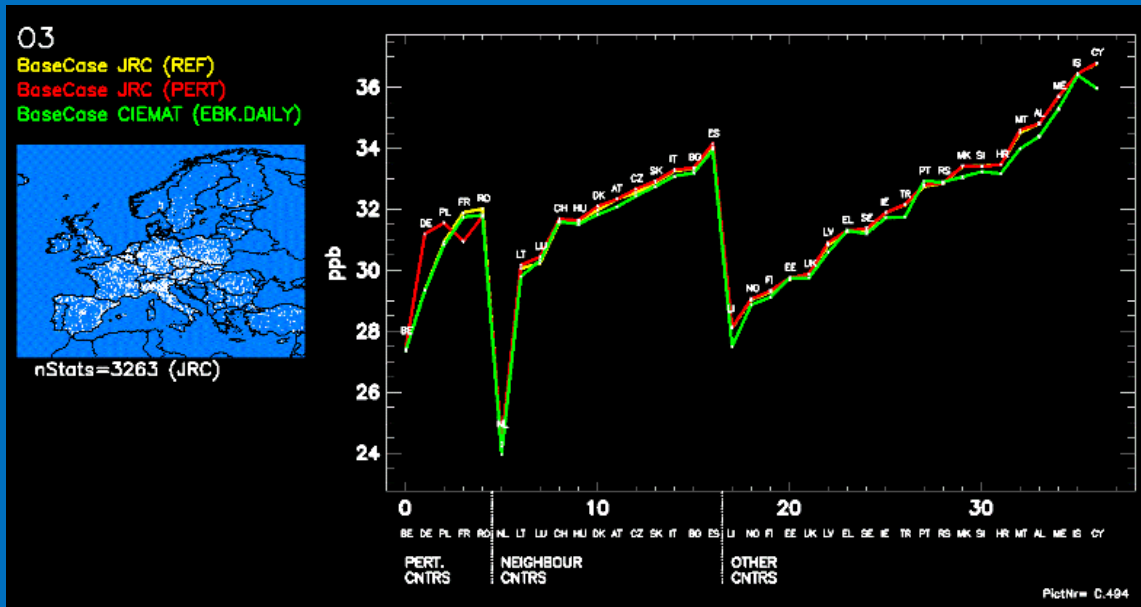
BC

Scen

Yearly



Daily



SharePoint: Data_Public / DataBase_YEARLY

- **./DataBase_ConsolidatesResults (*.nc)**

```
1 BaseCase_CHMI_NO2_SCA.Grid.Lin.mlr_CORR_YEARLY.nc
2 BaseCase_CHMI_O3_SCA.Grid.Lin.mlr_CORR_YEARLY.nc
3 BaseCase_CHMI_PM25_SCA.Grid.Lin.mlr_CORR_YEARLY.nc
4 BaseCase_CIAMAT_NO2_EBK_CORR_YEARLY.nc
5 BaseCase_CIAMAT_NO2_Ordkrig_CORR_YEARLY.nc
6 BaseCase_CIAMAT_O3_EBK_CORR_YEARLY.nc
7 BaseCase_CIAMAT_O3_Ordkrig_CORR_YEARLY.nc
8 BaseCase_CIAMAT_PM25_EBK_CORR_YEARLY.nc
9 BaseCase_CIAMAT_PM25_Ordkrig_CORR_YEARLY.nc
10 BaseCase_INERIS_NO2_SCA.Cell.Mult.Ked_CORR_YEARLY.nc
11 BaseCase_INERIS_O3_SCA.Cell.Mult.Ked_CORR_YEARLY.nc
12 BaseCase_INERIS_PM25_SCA.Cell.Mult.Ked_CORR_YEARLY.nc
...
...
498 Scen_CIAMAT_PM25_EBK.DAILY_CORR_YEARLY.nc
```

DataBase_Files.txt:

- **./Analysis:**
 - ./DOCs**
All methodologies and documentation on applied methods
 - ./PICTS_Country (498)**
 - ./PICTS_Scatter (498)**
 - Overview Table of deliveries**
 - ./Numbered *.nc files (498)**
 - Analysis Table (.xls)**
 - Rel. Diff (CORR - REF)/REF (%) per country**
 - IDL viewer to show C_picts and S_picts (?R version)**