Working Group 1 - Assessment

» Stijn Janssen & Philippe Thunis

FAIRMODE Technical Meeting, 24 & 25 June 2015, Aveiro, Portugal

Agenda

- Session 1 – Guidance on Model Quality Objectives (MQO)
- Session 2 – AQ Composite Mapping
- Session 3 – CCA Forecast
- Session 4 – CCA Modeling & Monitoring
- Session 5 – CCA Spatial Representativeness

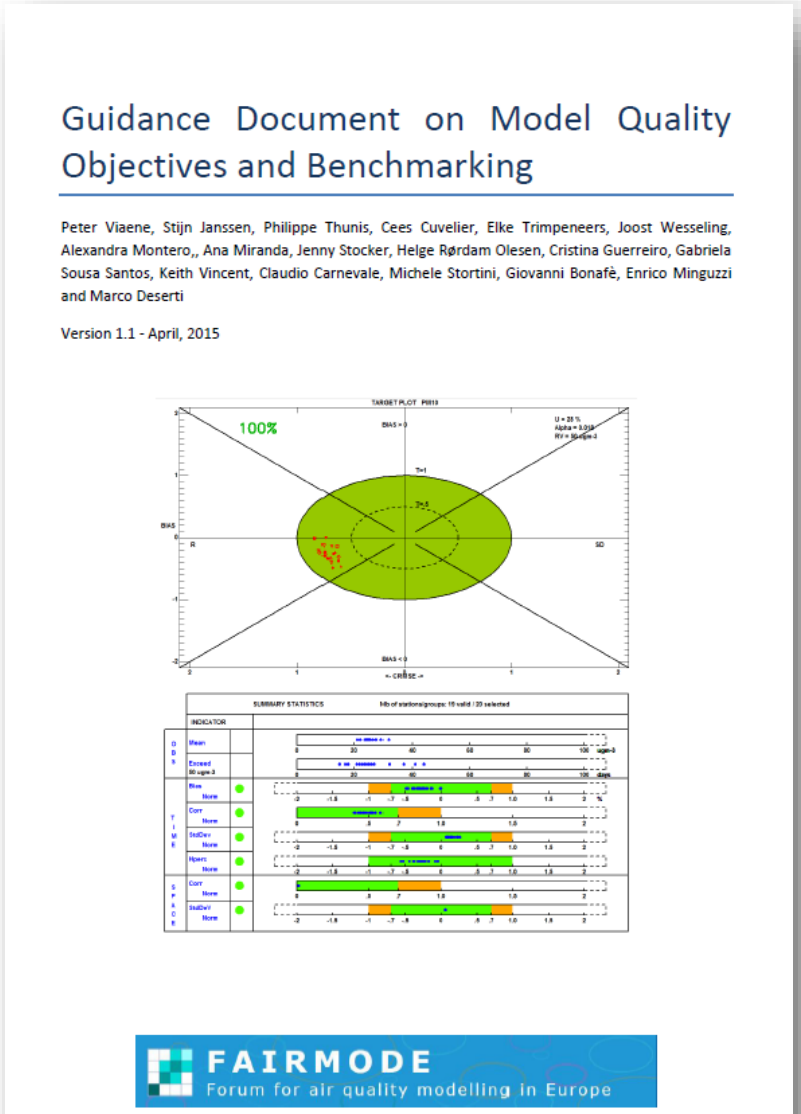
08:30-09:00	Registration			
09:00-09:30	Introduction			
09:30-10:30	Guidance on MQO		Intercomp. Exercise	
10:30-11:00	Coffee break			
11:00-12:30	AQ Mapping		Intercomp. Exercise	
12:30-14:00	Lunch Break			
14:00-16:00	Forecast Mod & Monit	Benchmarking	Intercomp. Exercise Feedback on Protocol	
16:00-16:30	Coffee Break			
16:30-17:30	Mod & Monit	SPECIEU		
17:30-18:30			Perf. Indicators Modelling protocol	Brainstorming on dynamic evaluation
09:00-10:30		Guidance on traffic emissions		Benchmarking
10:30-11:00	Coffee break			
11:00-13:00	Sp. Represent. Future activities	Future activities Mod & Mod Forecasting	Future activities	Future activities
13:00-14:30	Lunch break			
14:30-17:30	WG overviews, future activities & conclusions			

WG1
WG2
WG3
WG4
Common

Guidance Document

Guidance Document

- Edited by VITO (Peter Viaene)
- Cases provided by 7 different modelling teams (CERC, ARPA Emilia Romagna, IRCEL, Univ Aveiro, Univ Brescia, Ricardo AEA, NILU)
- Reviewed by 15 FAIRMODE experts



Guidance Document

- First version (V1.0) released during Plenary Meeting February 2015
- Updated version (V1.1) released in April 2015
  - NILU Case study
  - Minor textual changes
- Available at the FAIRMODE website: http://fairmode.jrc.ec.europa.eu/
  - WG1 → Related Documents

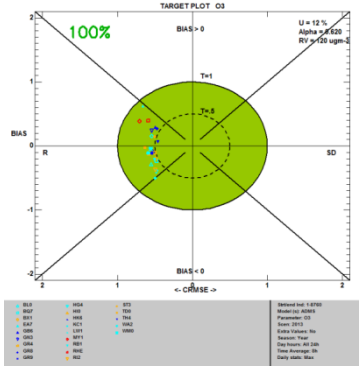
Content of the Guidance Document

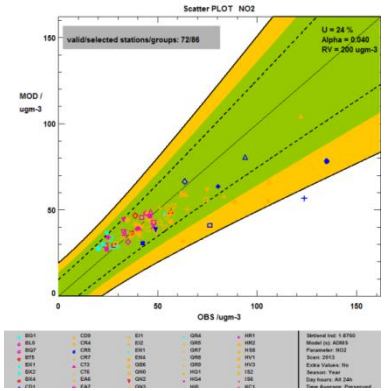
Content of the Guidance Document

Content of the Guidance Document

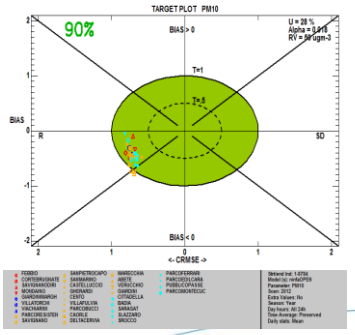
Examples of Good Practice

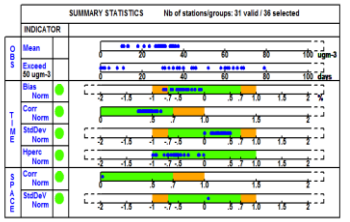
» CERC (Jenny Stocker) → ADMS-Urban application for London





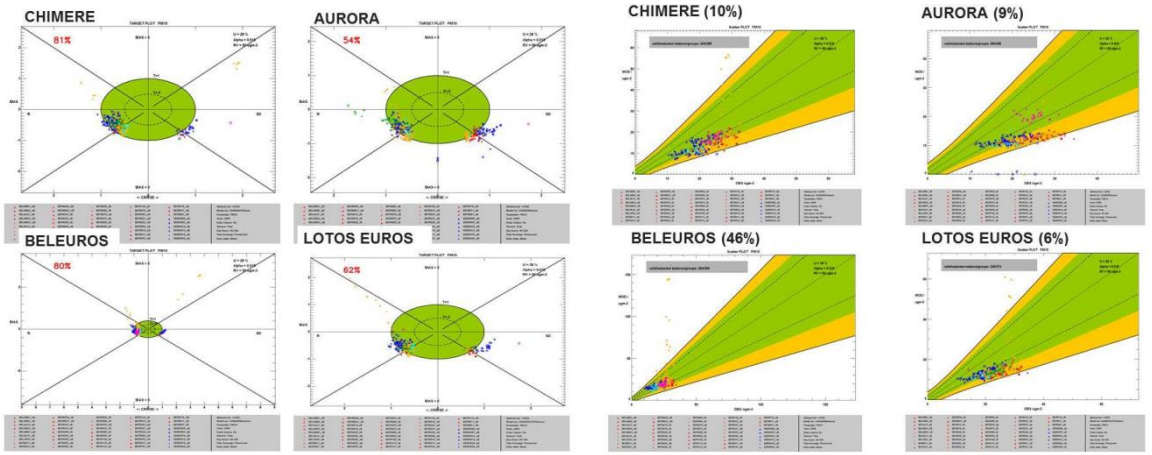
» ARPA Emilia Romagna (Michele Stortini) → NINFA Air Quality System for Northen Italy





Examples of Good Practice

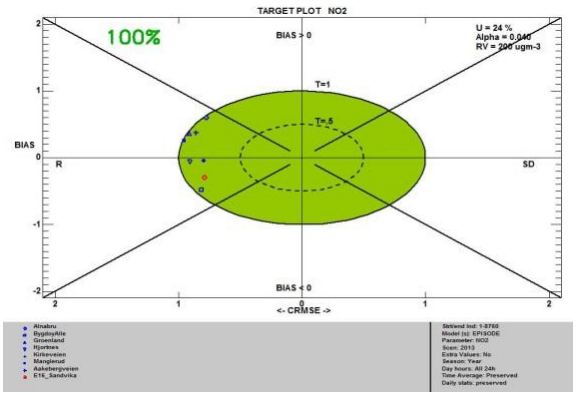
- IRCEL (Elke Trimpeneers) → JOAQUIN Model comparison for NW Europe

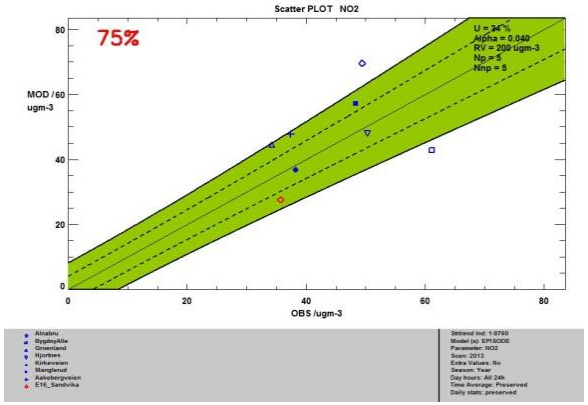


- UAVR (Alexandra Monteiro) → EURAD-IM, CHIMERE, CAMx, TAPM applications over Portugal and Porto and Lisbon urban areas

Examples of Good Practice

- UNIBS (Claudio Carnevale) → TCAM evaluation over Northern Italy
- Ricardo AEA (Keith Vincent) → PCM results as part of the annual AQ compliance for the UK
- NILU (Gabriela Sousa Santos and Cristina Guerreiro) → urban air dispersion model EPISODE for Oslo





Joint publication

- Idea of a joint publication based on the examples of good practice
- Many interested parties so far
- Work for Autumn 2015
- Someone interested to take the lead (and be first author)?

Open Issues

- 6.5.1. Data assimilation → **CCA M&M**
- 6.5.2. Station representativeness → **CCA SR**
- 6.5.3. Handling changes in observation data uncertainty → **Joost Wesseling**
- 6.5.4. Performance criteria for high percentile values → **Elke Trimpeneers**
- 6.5.5. Data availability → **Elke Trimpeneers**
- 6.5.6. MPC fulfilment criteria: improved statistical basis for the MQO → **Joost Wesseling**
- 6.5.7. Application of the procedure to other parameters → any new feedback?