NILU Contributions to EUCAARI

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Task 5.2: EUCAARI Platform – Data

- **Task 5.2.2: Atmospheric Transport Modeling**
- **Task 5.2.3: Online Integration of ATM Products**

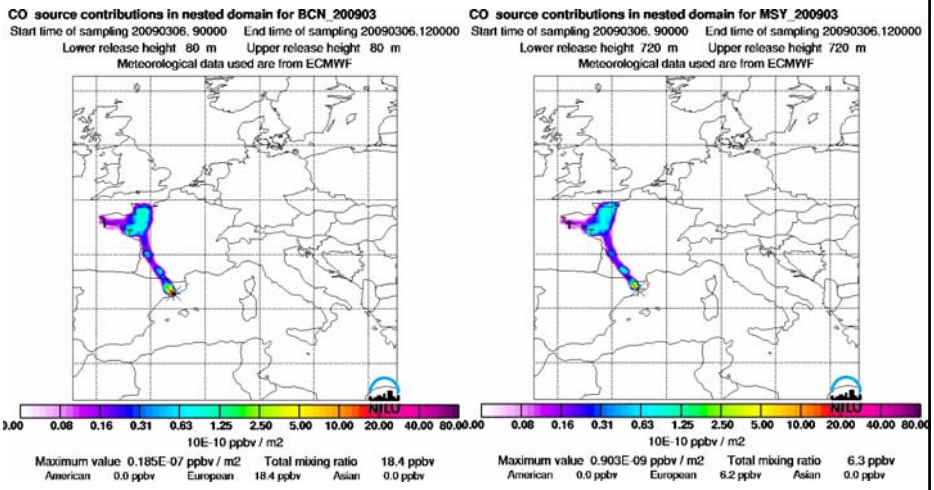
2008 EUCAARI Workshop
Somewhere near the Frankfurt Airport…

EUCAARI-FLEXPART

- Standardized model set up
  - 20 day backward runs, 3-hourly output: 00, 03, 06, 09, 12, 15, 18, 21
  - 1º x 1º spatial resolution, 91 vertical levels, nested domain: 0.25º
  - ECMWF input
  - 40,000 particles
- Customized runs for campaigns
  - Forward & backward runs

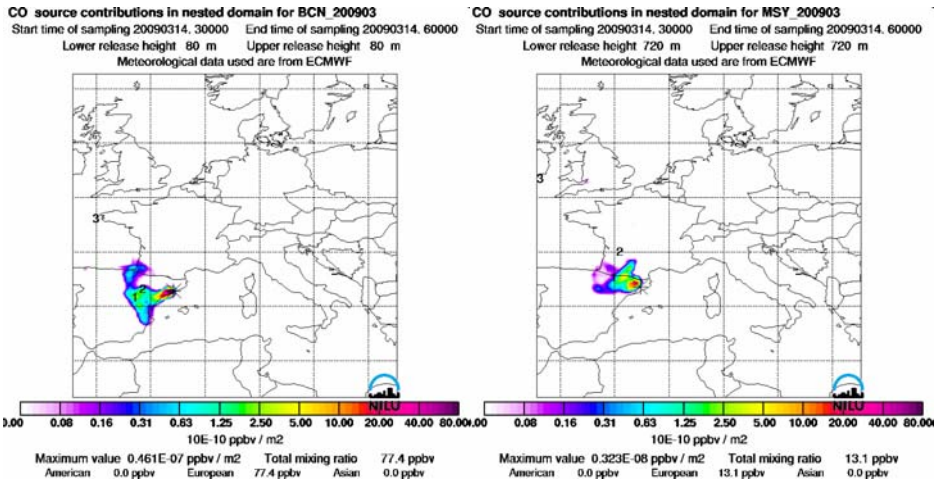
ASP	Aspvreten, Sweden	MPZ	Melpitz, Germany
BEO	BEO Moussala, Bulgaria	MTC	Monte Cimone, Italy
BIR	Birkenes, Norway	MSY	Montseny, Spain
CBW	Cabauw, Netherlands	OBK	Kosetice, Czech Republic
FKL	Finokalia, Greece	PAL	Pallas, Finland
HWL	Harwell, United Kingdom	PDD	Puy de Dôme, France
JFJ	Jungfraujoch, Switzerland	PLA	Preila, Lithuania
JRC	JRC-Ispra, Italy	SMR	Hyytiälä, Finland
KPO	K-Puszta, Hungary	VHL	Vavihill, Sweden
MHD	Mace Head, Ireland	ZEP	Zeppelin, Spitsbergen, Norway

CO Contribution: BCN vs MSY



- Quite similar, but not identical
- Keep in mind limited resolution of met (1 degree)

Same for different episode



FLEXPART Output Use Policy

- John Burkhart has done the runs for us
- Willing to do additional output if useful
- They are interested in collaborating in papers
  - Offer coauthorship if use of FLEXPART is important for conclusions of the paper
  - Otherwise add to acknowledgements