



10 years of ERS-2 GOME

10 Years GOME

on ERS-2

Workshop

ESA/ESTEC, 20 April 2005
Conference room: Einstein



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Agenda

09:15 Welcome
R. Zobl
Head of the Earth Observation Projects Department
(ESA/ESTEC)

Session 1:

Chair: J. Callies

09:30 General Overview of ERS-2 and GOME
A. Lefebvre, M. Canela, J. Callies & A. Hahne
(ESA/ESTEC)

09:50 ESOC: GOME operation
S. Paturaud, F. Bosquillon (ESA/ESOC)

10:10 ESRIN: An Overview of a Decade of GOME
Operations and Performance
A. Dehn, R. Koopman (ESA/ESRIN)

10:30 Long Term Monitoring of GOME Calibration
parameters
S. Slijkhuis, S. Wahl (DLR)

10:50 – 11:20 Coffee



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Session 2:

chair: A. Lefebvre

- 11:20 Achievements of the GOME off-line and near-real-time ground segment
D. Loyola (DLR)
- 11:40 The evolution of the GOME Level 2 Data Processor over 10 years - from first experimental measurements to high quality total ozone measurements useful for trend monitoring
C. Zehner (ESA/ESRIN)
- 12:00 IUP Heidelberg's Contribution to Atmospheric Research using 10 Years of GOME Data
J. Hollwedel (IUP Heidelberg)
- 12:20 GOME: Highlights of the first 10 years
J. Burrows (IFE Bremen)
- 12:50 Group foto
- 13:00 – 14:00 Lunch



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Session 3:

Chair: J. Callies

- 14:00 GOME UV degradation and Ozone profiles
I. Aben, J. Landgraf (SRON)
- 14:20 GOME 10 years of Ozone profile
A. Kaifel, M. Müller, J. Kaptur (Zentrum für Sonnenenergie und Wasserstoff-Forschung)
- 14:40 Assimilation of 10 Year of GOME-NNORSY
Ozone profiles
T. Ebertseder (DLR)
- 15:00 Global height-resolved data on tropospheric &
stratospheric ozone from the first decade of GOME
observations
B. Kerridge, R. Siddans (RAL)
- 15:20 GOME data usage for clouds, aerosols, and surface
albedo research
*P. Stammes, N. Fournier, M. de Graaf (KNMI),
R. Koelemeijer (RIVM)*
- 15:30 – 15:50 Coffee



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Session 4:

Chair: A. Lefebvre

- 15:50 Ten years of validation and algorithmic developments in support of the GOME mission
M. v. Roozendael, J-C. Lambert, P.C. Simon (BIRA-IASB), R. Spurr (RT-Solutions Inc.), D. Loyola (DLR), W. Thomas (DWD)
- 16:10 Contribution from GOME on the linkage between solar activity and climate
M. Weber (IFE Bremen)
- 16:30 Global Trends in Tropospheric Water Vapor from 1995 to 2003: The GOME Water Vapor Climatology Project
R. Lang (MPI Mainz)
- 16:50 Ten years of GOME at KNMI: from GOFAP to PROMOTE. Operational services aiming at users
R. van Oss, A. Peters, R. van der A, H. Eskes (KNMI)
- 17:10 Discussion and Conclusions
- 17:45 Drinks and Posters



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Poster Session:

A database of spectral surface reflectance from 335-772 nm derived from 5.5 years of GOME observations

R. Koelemeijer (RIVM)

N. Fornier, J.F. de Haan, P. Stammes (KNMI)

M. Eisinger (ESTEC)

GOME O₃ profiles and their application in modelling stratospheric transport

A.T.J. de Laat, J. Landgraf, I. Aben and B. Bregman (SRON)

GOME-2 on Metop: An Overview of Data Processing, Commissioning Activities and Long-Term Monitoring

M. Eisinger, J. Callies, A. Lefebvre (ESA/ESTEC)

R. Munro, A. Perez Albinana (EUMETSAT)

T. Riihisaari (FMI Helsinki)

C. Gomez (GMV Madrid)



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Poster Session (cont'd):

GOME-2 Calibration results

G. Otter, L.v. Riel, M. Eschen, S. v. Leeuwen, (TNO)

P. Kenter, J. Smeets (Science and Technology)

R. Veratti, B. Ricciarelli, A. Capanni (Galileo Avionica)

A. Lefebvre, J. Callies, M. Eisinger (ESA/ESTEC)