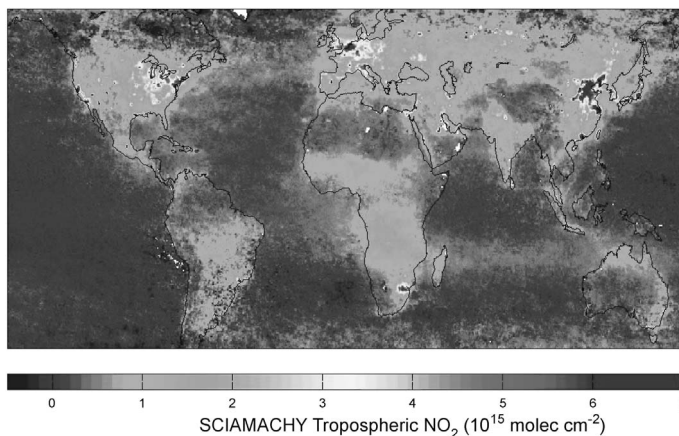


COMPTES RENDUS PHYSIQUE

Tome 6 (2005) – N° 8



Global tropospheric NO₂ derived from SCIAMACHY measurements for May–October 2004. The image is from K. Chance, this issue, pages 836–847, by courtesy of R.V. Martin and C.E. Sioris.

NO₂ troposphérique global déduit des mesures SCIAMACHY pour la période mai–octobre 2004. L'image est extraite de l'article de K. Chance, ce numéro, pages 836–847, avec l'aimable autorisation de R.V. Martin and C.E. Sioris.

DOSSIER

Molecular spectroscopy and planetary atmospheres / *Spectroscopie moléculaire et atmosphères planétaires*

Guest editors / *Rédacteurs en chef invités* : Jean-Marie Flaud, Jean-Michel Hartmann

- Foreword
Jean-Marie Flaud, Jean-Michel Hartmann 815
- Infrared spectroscopy of planetary atmospheres
Pierre Drossart 817
- A review of remote sensing techniques and related spectroscopy problems
Sébastien Payan, Jérôme de La Noë, Alain Hauchecorne, Claude Camy-Peyret 825
- Ultraviolet and visible spectroscopy and spaceborne remote sensing of the Earth's atmosphere
Kelly Chance 836
- Atmospheric non-local thermodynamic equilibrium emissions as observed by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS)
Manuel López-Puertas, Bernd Funke, Sergio Gil-López, Miguel Á. López-Valverde, Thomas von Clarmann, Herbert Fischer, Hermann Oelhaf, Gabriele Stiller, Martin Kaufmann, M.E. Koukouli, Jean-Marie Flaud .. 848
- Atmospheric and meteorological Lidar: from pioneers to space applications
Pierre H. Flamant 864
- Spectroscopic challenges for high accuracy retrievals of atmospheric CO₂ and the Orbiting Carbon Observatory (OCO) experiment
Charles E. Miller, Linda R. Brown, Robert A. Toth, D. Chris Benner, V. Malathy Devi 876

Suite du sommaire page suivante

Sommaire (suite)

- Monitoring tropospheric pollution using infrared spectroscopy from geostationary orbit
Johannes Orphal, Gilles Bergametti, Benoît Beghin, Philippe-Jean Hébert, Tilman Steck, Jean-Marie Flaud 888
- History and future of the molecular spectroscopic databases
Laurence S. Rothman, Nicole Jacquinet-Husson, Christian Boulet, Agnès M. Perrin 897
- LIF spectroscopy applied to the study of non-thermal plasmas for atmospheric pollutant abatement
Lionel Magne, Stéphane Pasquiers 908