

*Limb Trajectory Retrieval and
Component Investigations of
Southern Polar Stratosphere based on
High Resolution Spectroscopy
of the Moon during the Total Eclipse*

O.S. Ugolnikov

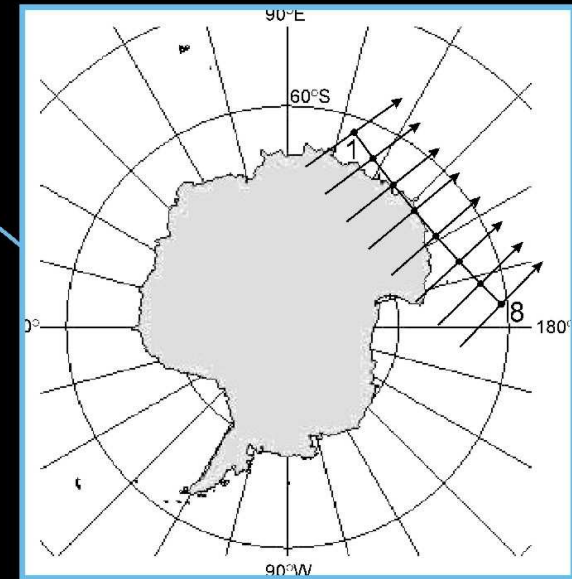
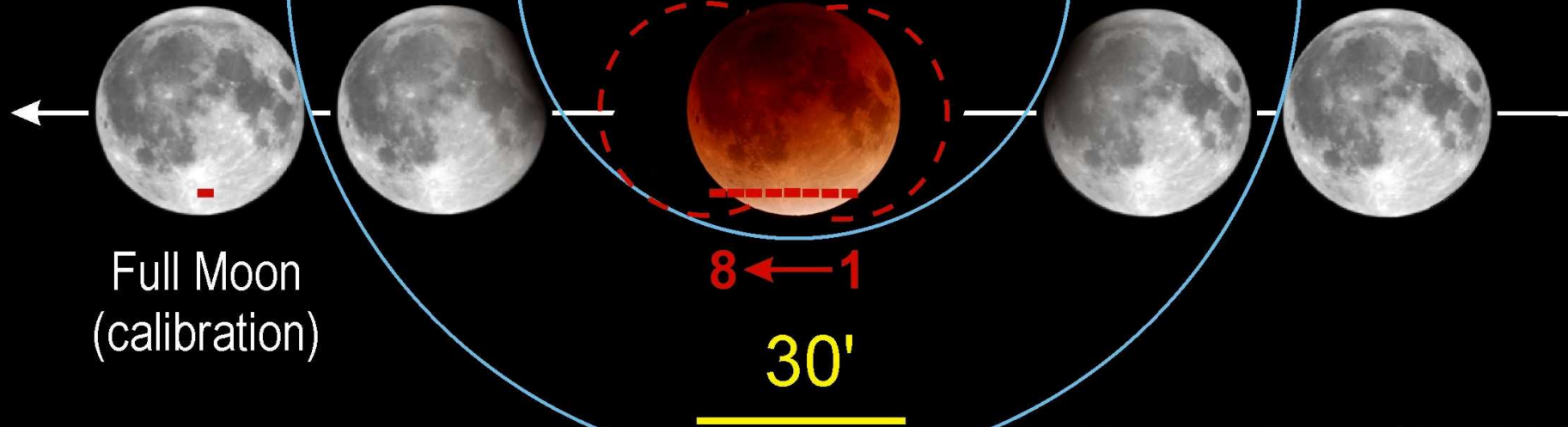
Space Research Institute, Russian Academy of Sciences, Russia

A.F. Punanova, V.V. Krushinsky

Kourovka Astronomical Observatory, Ural Federal University, Russia

Moon surface spectroscopy:
410-780 nm,
Resolution ~30000

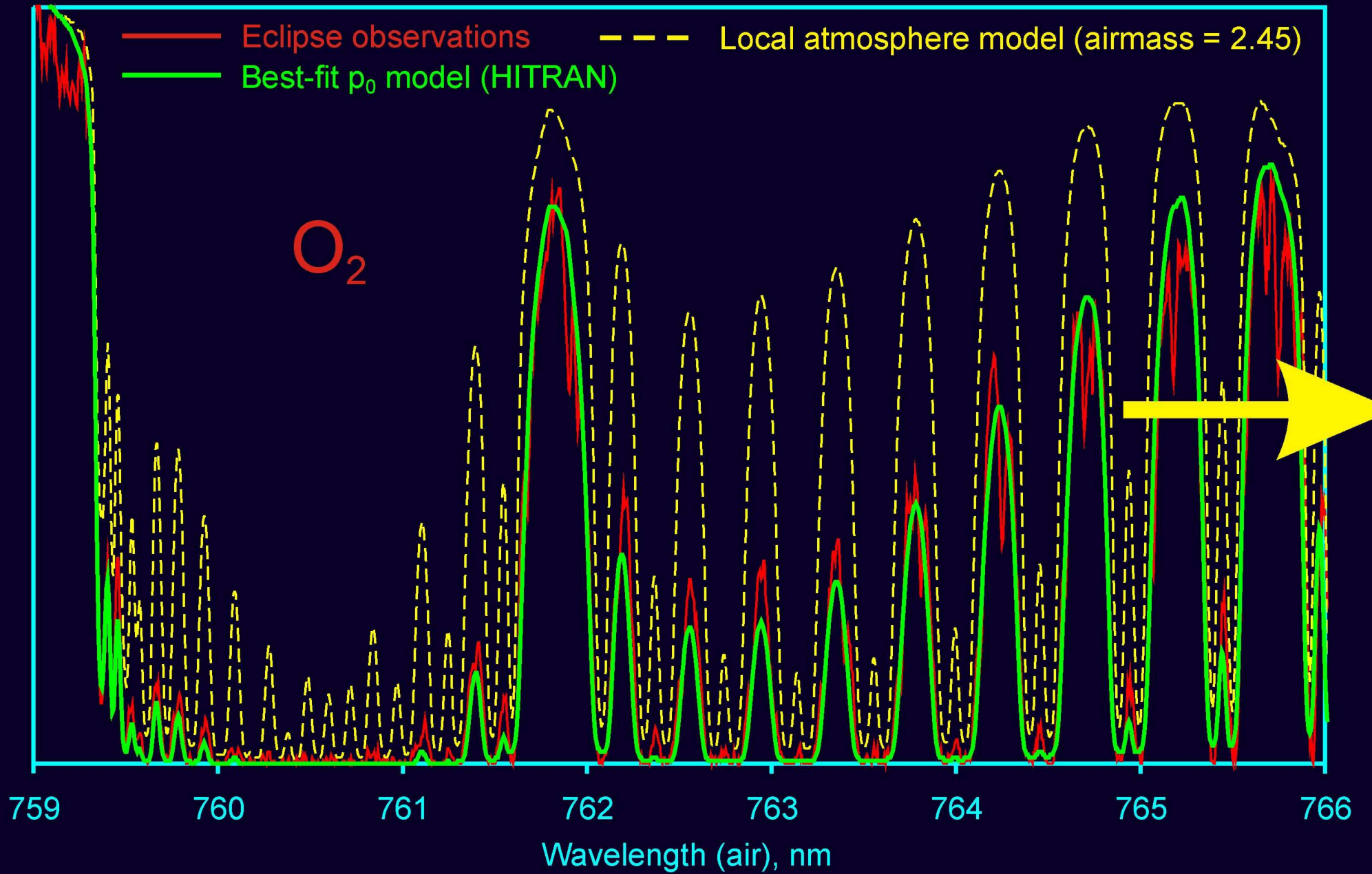
North
↑

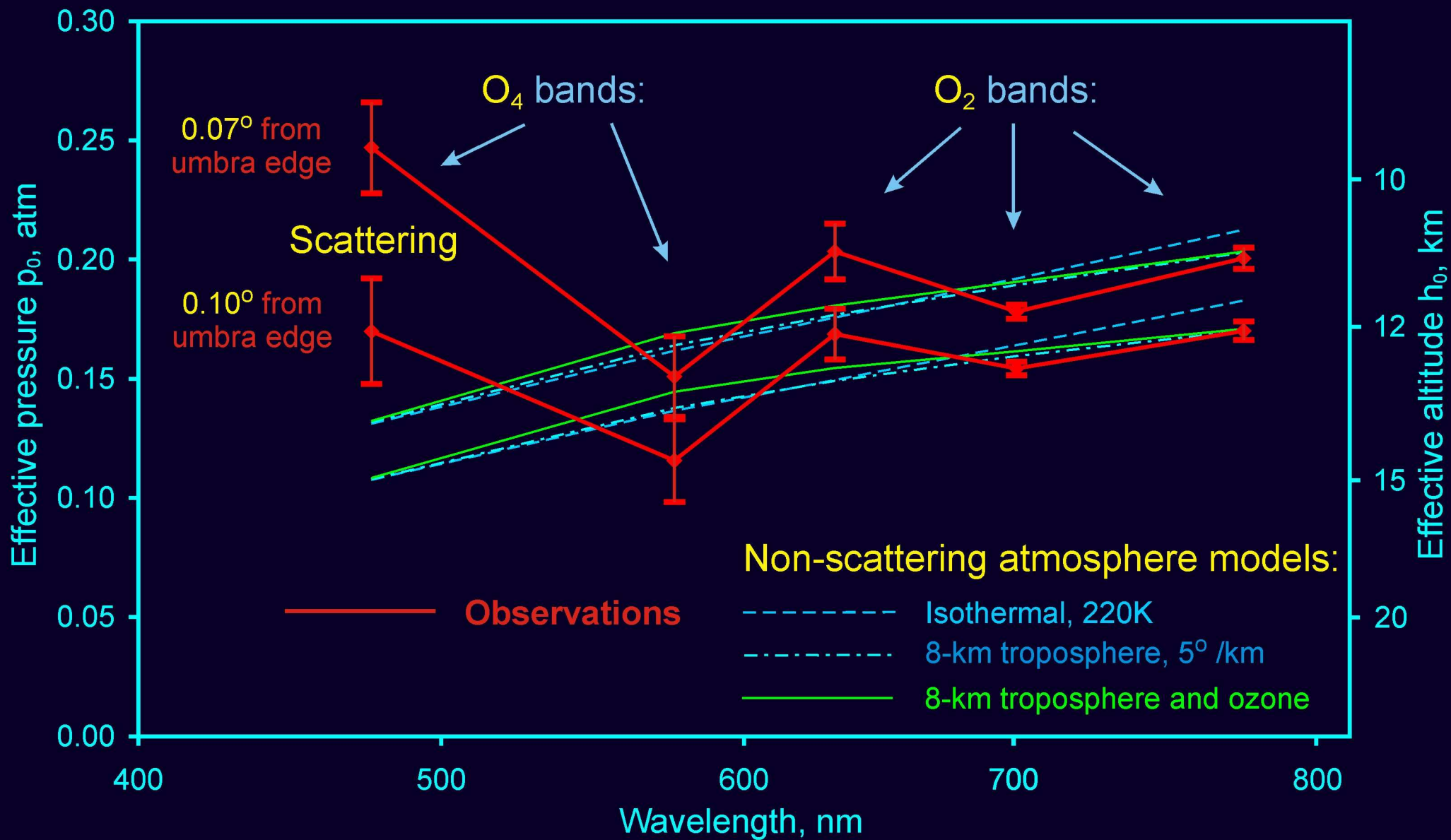


Radiation transfer

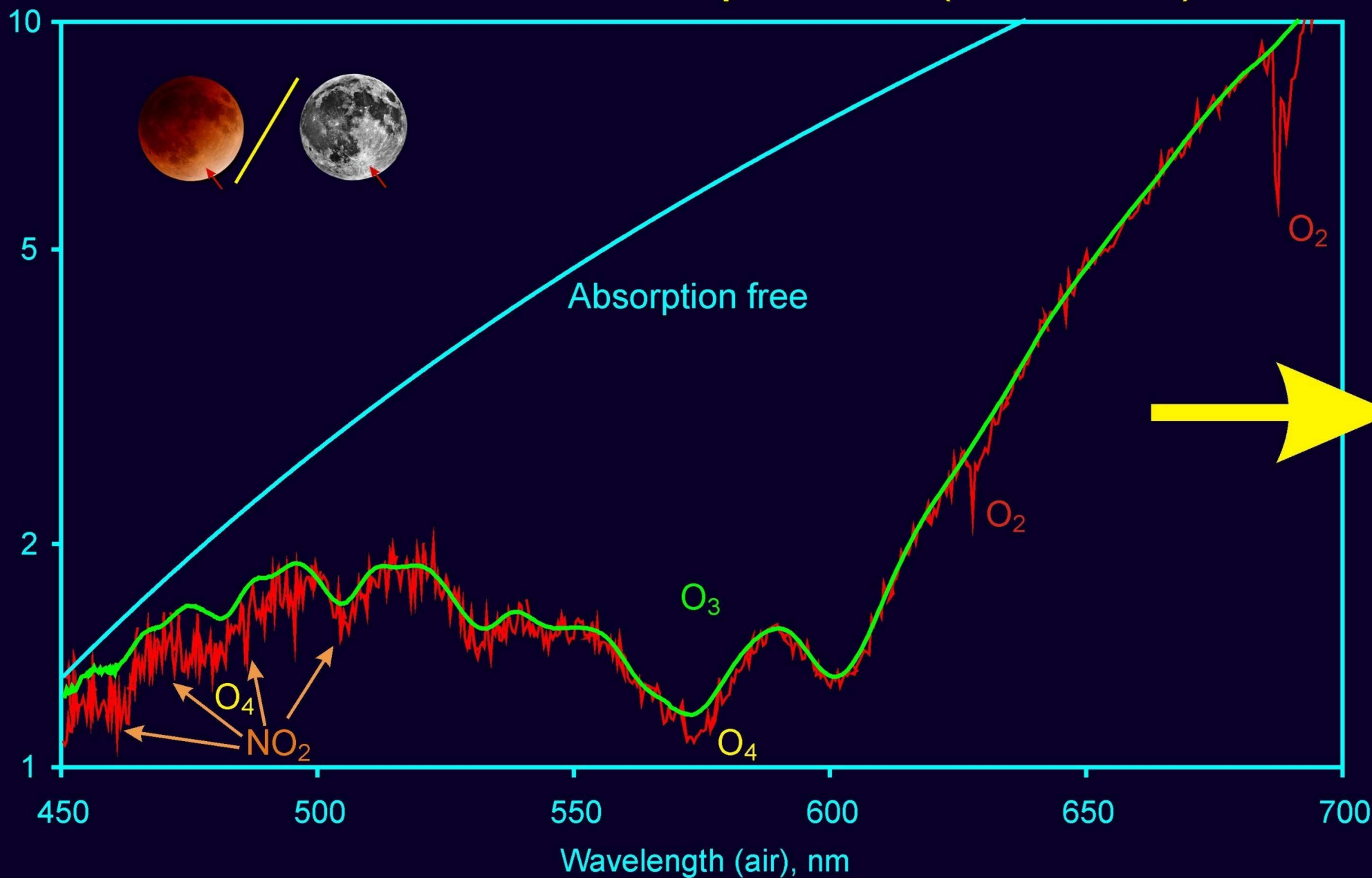
Full Moon
(calibration)

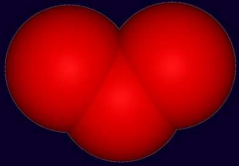
December, 10, 2011





Limb Transmission Spectrum (arb. units)





O₃, NO₂

