

This file contains tropospheric NO<sub>2</sub> vertical columns retrieved from GOME for July 1996. For a brief overview and a GIF image, see <http://www-as.harvard.edu/chemistry/trop/satellite/no2.html>  
The retrieval is described in

Martin, R.V., K. Chance, D.J. Jacob, T.P. Kurosu, R.J.D. Spurr, E. Bucsela, J.F. Gleason, P.I. Palmer, I. Bey, A.M. Fiore, Q. Li, R.M. Yantosca, and Robert B. A. Koelemeijer  
An improved retrieval of tropospheric nitrogen dioxide from GOME, *J. Geophys. Res.*, 107(D20), 4437, doi:10.1029/2001JD001027, 2002.  
<http://www-as.harvard.edu/chemistry/trop/publications/martin2001a.pdf>

The 51 lines below correspond to the latitude centers: -40,-38,...,60  
The 144 values on a line correspond to the longitude centers:  
-180 -177.5 ... 177.5

Missing data are flagged with -999. The units are molecules/cm<sup>2</sup>.  
Please contact [rvmartin@fas.harvard.edu](mailto:rvmartin@fas.harvard.edu) with any questions.

2.5245253e+13	2.4615511e+14	3.1897988e+14	1.5448054e+14	1.7301428e+14
1.4875296e+14	6.7186030e+13	1.4917377e+14	1.6986498e+14	1.1129236e+14
2.0950554e+14	3.6490472e+14	2.2740243e+14	7.1224357e+13	1.7819354e+14
1.7355694e+14	3.4934981e+14	1.9125963e+14	1.4192921e+14	2.0356946e+14
3.0784474e+14	7.4337467e+13	9.6950709e+13	3.1824128e+14	1.5956235e+14
1.4865222e+14	8.5813302e+13	2.4691222e+14	1.6819753e+14	1.2529262e+14
1.5582216e+14	1.9880689e+14	2.3830331e+14	1.4729364e+14	2.0736357e+14
3.5304921e+14	2.8952428e+14	8.4032394e+13	4.2298513e+14	4.4212329e+14
3.0401647e+14	6.3726957e+14	2.1435740e+14	5.6109516e+14	2.9369586e+14
1.3746001e+14	1.0898455e+14	-1.0455527e+14	3.0847567e+14	1.3212447e+14
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1.7443708e+14	1.6048348e+14	4.1789836e+14	1.5826798e+14	2.9203140e+14
4.9983115e+14	-5.1629366e+13	2.4562333e+14	2.4414866e+14	3.0449461e+14
9.1343339e+13	1.5812093e+14	1.9780288e+14	-1.7262147e+14	2.6042769e+14
2.2387185e+14	2.7582523e+14	2.3220897e+14	5.8601359e+14	3.7213014e+14
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2.5984471e+14	3.2589683e+14	3.0260068e+14	5.1708288e+12	1.9600843e+14
2.5868148e+14	1.8226186e+14	7.4364704e+12	2.6347116e+14	1.4245733e+14
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3.6845512e+14	2.7002918e+14	1.2571732e+14	8.3542807e+13	5.8547866e+13
8.0427091e+13	-7.9763005e+13	4.0946716e+14	1.9585787e+14	2.5113094e+14

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6.6853486e+14	1.0749665e+15	7.5607249e+14	7.1095247e+14	5.3408379e+14
6.2313949e+14	8.5278506e+14	1.2323635e+15	5.1303269e+14	-4.8849725e+13
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3.8224756e+14	7.3099037e+14	7.1754172e+14	2.8024454e+14	4.3845175e+14
3.4312338e+14	6.8654513e+13	4.3249416e+14	1.6330689e+14	