

Bibliografía

- Beatty T.J., Hostetler C.A. y Gardner C.S (1992)
 "Lidar observations of gravity waves and their spectra near the mesopause and stratopause at Arecibo"
 J. atmos. Sci., **49**, 477
- Bernard R. (1981)
 "Seasonal variation in mesospheric semidiurnal tides. Comparison of meteor-radar observations and results from an excitation source model"
 J. atmos. terr. Phys., **56**, 1049
- Chapman S. y Lindzen R. S. (1970)
 "Atmospheric tides"
 Editorial Dordrecht, Holland.
- CIRA (1990)
 "COSPAR International Reference Atmosphere"
 Adv. Space Res., **10**, 430
- Cogger L.L., Elphinstone R.D. y Giers D.H. (1988)
 "Wave characteristics obtained from OH rotational temperatures and 557.7nm airglow intensities"
 J. atmos. terr. Phys., **50**, 943
- Collins R.L., Nomura A. y Gardner C.S. (1994)
 "Gravity waves in the upper mesosphere over Antarctica: Lidar observations at the South Pole and Syowa"
 J.geophys.Res., **99**, 5475
- Coxon J. A. y Foster S.C. (1982)
 "Rotational analysis of hydroxyl vibration-rotation emission bands. Molecular constants for $\text{OH } X^2, v = 6 \text{ to } 10$ "
 Can. J. Phys., **60**, 41
- Dewan (1979)
 "Stratospheric wave spectra resembling turbulence"
 Science, **204**, 832
- Dewan E.M, (1990)
 "Power spectra of internal gravity waves"
 GL-TR-90-0233, Special Reports, 265, NTIS:AD-A231-596

Dewan E.M, (1991)

"Similitude modeling of internal gravity wave spectra"
Geophys.Res.Lett., **18**, 1473

Dewan E.M, (1994)

"The saturated-cascade model for atmospheric gravity wave spectra, and the wavelength-period (W-P) relations"
Geophys.Res.Lett., **21**, 817

Dewan E.M, y Good R.E. (1984)

"Universal gravity wave spectra in the atmosphere and turbulent saturation"
EOS, **65**, 1030

Dewan E.M, y Good R.E. (1986)

"Saturation and the "universal" spectrum for vertical profiles of horizontal scalar winds in the atmosphere"
J.geophys.Res., **91**, 2742

Dewan E.M., Pendleton W., Grossbard N., y Espy P. (1992)

"Mesospheric OH airglow temperature fluctuations: A spectral analysis"
Geophys. Res. Lett., **19**, 597.

Fritts D.C. (1984)

"Gravity wave saturation in the middle atmosphere. A review of theory and observations"
Rev.geophys.Space Phys., **22**, 275

Forbes J.M. (1987)

"Modelling the propagation of atmospheric tides from the lower to the middle and upper atmosphere"
Physica Scripta, **T18**, 240

Forbes J.M. y Gillette D.F. (1982)

"A compendium of theoretical atmospheric tidal structures. Part I. Model description and explicit structures due to realistic thermal and gravitational excitation"
AFGL Report TR-82-0173 (I), Air Force Geophysics Laboratory, Hanscom AFB, MA 01731, U.S.A.

Forbes J.M., Gu J. y Miyahara S. (1991)

"On the interactions between gravity waves and the diurnal propagating tide"
Planet. Space Sci., **39**, 1249

Fougere, P.F. (1985)

"On the accuracy of spectrum analysis of red noise processes using Maximum Entropy and Periodogram methods - Studies and application to geophysical data"

J.geophys.Res. 90, 4355

Gabor D. (1946)

"Theory of communication"

J.IEE, 93, 492

Garcia R.R y Solomon S [1985]

"The effects of breaking gravity waves on the dynamics and chemical composition of the mesosphere and lower thermosphere"

J.geophys.Res, 90, 3850

Gardner C.S. y Voelz D.G. (1987)

"Lidar studies of the nighttime sodium layer over Urbana, Illinois, 2: Gravity waves"

J.geophys.Res. 92, 4673

Gobbi D. (1993)

"Estudo de ondas de gravidade na alta atmosfera através de observações de luminescência atmosférica da hidroxila OH(9-4) e oxigênio O₂(0-1)"

Tesis doctoral

INPE-5539-TDI/527, San José dos Campos

Greer R.G, Llewellyn E.J., Solheim B.H., y Witt G. (1981)

"The excitation of O₂(b¹Σ_g⁺) in the nightglow"

Planet. Space Sci, 29, 383

Harrison A.W. y Kendall D.J.W. (1973)

"Airglow hydroxyl intensity measurements 0.6 - 2.3μ"

Planet Space. Sci., 21, 1731

Hecht J.H., Walterscheid R.L., Sivjee G.G., Christensen A.B. y Pranke J.B. (1987)

"Observations of wave-driven fluctuations of OH nightglow emission from Søndre Strømfjord, Greenland"

J.geophys.Res, 92, 6091

- Hecht J.H. y Walterscheid R.L. (1991)
"Observations of the OH Meinel (6-2) and O₂ Atmospheric (0-1) nightglow emissions from Maui during the ALOHA-90 campaign"
Geophys. Res. Lett., **18**, 1341
- Hedin A.E. (1987)
"MSIS-86 Thermospheric Model"
J.geophys.Res, **92**, 4649
- Herzberg G. (1950)
"Spectra of diatomic molecules"
Van Nostrand, New York
- Hickey M. P. (1988a)
"Effects of eddy viscosity and thermal conduction and Coriolis force in the dynamics of gravity wave driven fluctuations in the OH nightglow"
J. Geophys. Res., **93**, 4077
- Hickey M. P. (1988b)
"Wavelength dependence of eddy dissipation and Coriolis force in the dynamics of gravity wave driven fluctuations in the OH nightglow"
J. Geophys. Res., **93**, 4089
- Hickey M. P., Schubert G. y Walterscheid R. L. (1993)
"Gravity wave-driven fluctuations in the O₂ atmospheric (0-1) nightglow from an extended, dissipative emission region"
J. Geophys. Res., **98**, 13717
- Hines C.O. (1960)
"Internal atmospheric gravity waves at ionospheric heights"
Can. J. Phys., **38**, 1441
- Hines C.O. (1991)
"The saturation of gravity waves in the middle atmosphere. Part 1: Critique of linear-instability theory"
J. Atmos. Sci., **48**, 1348
"...Part 2: Development of Doppler-spread theory"
J. Atmos. Sci., **48**, 1360
"...Part 3: Formation of the turbopause and of turbulent layers beneath it"
J. Atmos. Sci., **48**, 1380
- Hines C.O. y Tarasick D. W. (1987)
"On the detection and utilization of gravity waves in airglow studies"
Planet. Space Sci., **35**, 851

- Horne J. H., y Baliunas S. L. (1986)
"A prescription for period analysis of unevenly sampled time series"
Astrophys. J., 302, 757
- Kovacs, G. (1981)
"Frequency shift in Fourier analysis"
Astrophys. Space Sci. 78, 175
- Krassovsky V.I. (1972)
"Infrasonic variation of OH emission in the upper atmosphere"
Ann. Geophys. 28, 739
- Kwon K.H., Senft D.C. y Gardner (1990)
"Airborne sodium lidar observations of horizontal and vertical wave number spectra of mesopause density and wind perturbations"
J.geophys.Res., 95, 13723
- Lindzen R.S. (1981)
"Turbulence and stress owing to gravity wave and tidal breakdown"
J.geophys.Res., 86, 9707
- Lindzen, R.S. (1985)
"Multiple gravity-wave breaking levels"
J.atmos.Sci., 42, 301
- Llewellyn E. J., Long B. H., y Solheim B.H. (1978)
"The quenching of OH* in the atmosphere"
Planet. Space Sci., 26, 525
- Lomb N. R. (1976)
"Least-squares frequency analysis of unequally spaced data"
Astrophys. Space. Sci., 39, 447
- Manson A.H., Meek C.E., Fellous J.L. y Massebeuf M. (1987)
"Winds oscillations (~6h-6 days) in the upper middle atmosphere at Monpazier (France, 45°N, 1°E) and Saskatoon (Canada, 52°N, 107°W) in 1979-1980"
J. atmos. terr. Phys., 49, 1059
- Manson A.H. y Meek C.E. (1988)
"Gravity wave propagation characteristics (60-120 km) as determined by the Saskatoon MF radar (Gravnet) system: 1983-85 at 52°N, 107°W"
J.atmos.Sci., 45, 932

- Marple, S.L. (1987)
"Digital spectral analysis signal processing"
Prentice-Hall, Inc., New Jersey
- Meinel A.B. (1950)
"OH emission bands in the spectrum of the night sky. I."
Astrophys.J. 111, 555
"OH emission bands in the spectrum of the night sky. II."
Astrophys.J. 112, 120
- Mies F. H. (1974)
"Calculated vibrational transition probabilities of OH (X_{π}^2)"
J. Mol. Spectrosc., 53, 150
- Morlet J., Arens G., Fourgeau, E., y Glard D. (1982)
"Wave propagation and sampling theory - Part I: Complex signal
and scattering in multilayered media".
Geophys., 47, 203
"... Part II: Sampling theory and complex waves".
Geophys., 47, 222
- Murayama Y., Tsuda T., Yamamoto M., Nakamura T., Sato T., Kato S., y Fukao S. (1992)
"Dominant vertical scale of gravity waves in the middle
atmosphere observed with the MU radar and rocketsondes"
J. atmos. terr. Phys., 54, 339
- Myrabø H. K. (1984a)
"Temperature variation at mesopause levels during winter
solstice at 78°N".
Planet. Space Sci., 32, 249
- Myrabø H. K. y Deehr C.S. (1984b)
"Mid-winter hydroxyl night airglow emission intensities in the
northern polar region".
Planet. Space Sci., 32, 263
- Myrabø H. K., Deehr C.S., Romick G.J. y Henriksen K. (1986)
"Mid winter intensities of the night airglow $O_2(0-1)$
atmospheric band emission at high latitudes".
J. Geophys. Res., 91, 1684
- Myrabø, H.K., Deehr, C.S, y Viereck R. (1987)
"Polar mesopause gravity wave activity in the sodium and
hydroxyl night airglow"
J.geophys.Res, 92, 2527
- Neckel H. y Labs D. (1984)
"The solar radiation between 3300 and 12500Å"
Solar Phys., 90, 205

- Noxon, J.P. (1978)
"Effects of internal gravity waves upon night airglow temperatures"
Geophys. Res. Lett., 5, 25
- Offermann D. (1991)
"DYANA project survey"
Proc. 10th ESA Symposium on European Rocket and Balloon Programmes and Related Research,
ESA SP-37, 369
- Press W. H., y Rybicky S. A. (1989)
"Fast algorithm for spectral analysis of unevenly sampled data"
Astrophys. J., 33, 277.
- Press W. H., y Teukolsky S. A. (1988)
"Search algorithm for weak periodic signals in unevenly spaced data"
Computers in Physics, Nov/Dec 1988, 77
- Reid I.M. y Vincent R.A. (1987)
"Measurements of the horizontal scales and phase velocities of short period mesospheric gravity waves at Adelaide, Australia"
J. atmos. terr. Phys., 49, 1033
- Reisin, E.R. (1987)
"Medición espectroscópica de temperaturas atmosféricas en la zona de la mesopausa"
Trabajo de Seminario para la Licenciatura en Física,
Facultad de Ciencias Exactas y Naturales de la
Universidad de Buenos Aires, Nov. 1987.
- Ritter K.J. y Wilkerson T.D. (1987)
"High-resolution spectroscopy of the oxygen A Band"
J. Mol. Spectroscopy, 121, 1
- Scargle J. D. (1982)
"Studies in astronomical time series analysis. II. Statistical aspects of spectral analysis of unevenly spaced data"
Astrophys. J., 263, 835
- Scheer, J. (1987)
"Programmable Tilting Filter Spectrometer for Studying Gravity Waves in the Upper Atmosphere"
Appl. Opt., 26/15, 3077
- Scheer, J. y Reisin, E.R. (1990)
"Rotational temperatures for OH and O₂ airglow bands measured simultaneously from El Leoncito (31° 48' S)"
J. atmos. terr. Phys., 52, 47

- Scheer J., Reisin E.R., Espy J.P., Bittner M., Graef H.H., Offermann D., Ammosov P.P. e Ignatyev V.M. (1994)
"Large-scale structures in hydroxyl rotational temperatures during DYANA"
J. atmos. terr. Phys, en prensa.
- Schubert G. y Walterscheid R.L. (1988)
"Wave-driven fluctuations in OH nightglow from an extended source region".
J. Geophys. Res., **93**, 9903
- Schubert G., Walterscheid R.L. y Hickey M. P. (1991)
"Gravity wave-driven fluctuations in OH nightglow from an extended, dissipative emission region".
J. Geophys. Res., **96**, 13869
- Shagaev, M.V. (1974)
"Fast variations of hydroxyl night airglow emission"
J. atmos. terr. Phys., **36**, 367
- Sivjee G.G., Walterscheid R.L., Hecht J.H., Hamwey R.M., Schubert G. y Christensen A.B. (1987)
"Effects of atmospheric disturbances on polar mesopause airglow OH emissions".
J. Geophys. Res., **92**, 7651
- Smith S.A., Fritts D.C. y Van Zandt T.E. (1987)
"Evidence for a saturated spectrum of atmospheric gravity waves"
J.atmos.Sci., **44**, 1404
- Stegman J. (1991)
"Spectroscopic and kinetic studies of atmospheric oxygen emissions"
(Tesis de Doctorado, Univ. de Estocolmo)
ISBN 91-7146-871-4. Akademitryck AB. Edsbruk
- Swenson G.R., Mende S.B. y Geller S.P. (1990)
"Fabry-Perot imaging observations of OH(8-3): rotational temperatures and gravity waves"
J. Geophys. Res., **95**, 12251
- Takahashi H., Sahai Y. y Teixeira N.R. (1990)
"Airglow intensity and temperature response to atmospheric wave propagation in the mesopause region"
Adv. Space Res, **10**, (10)77

- Takahashi H., Sahai Y., Batista P.P. y Clemesha B. R. (1992)
"Atmospheric gravity wave effect on the airglow $O_2(0-1)$ and OH (9-4) band intensity and temperature variations observed from low latitude station"
Adv. Space Res, **12**, (10)134
- Takeuchi, I. y Misawa K. (1981)
"Short period oscillations of intensity and rotational temperature of the OH(6-2) band"
Ann. Geophys., **37**, 315
- Tarasick D.W., y Hines C.O. (1990)
"The observable effects of gravity waves in airglow emissions"
Planet. Space Sci., **38**, 1105
- Tarasick D.W., y Shepherd G.G. (1992a)
"Effects of gravity waves on complex airglow chemistries.
1. $O_2(b^1\Sigma^+g)$ emission"
J. Geophys. Res., **97**, 3185
- Tarasick D.W. y Shepherd G.G. (1992b)
"Effects of gravity waves on complex airglow chemistries.
2. OH emission"
J. Geophys. Res., **97**, 3195
- Taylor M.J., Espy P.J., Baker D.J., Sica R.J., Neal, P.C. y Pendleton W.R. Jr. (1991)
"Simultaneous intensity, temperature and imaging measurements of short period wave structure in the OH nightglow emission"
Planet. Space Sci., **39**, 1171
- Ulrych T.J. y Bishop T.N. (1975)
"Maximum entropy spectral analysis and autoregressive decomposition"
Rev. Geophys. Space Phys., **13**, 183
- Vautard R. y Ghil M. (1989)
"Singular spectrum analysis in nonlinear dynamics, with applications to paleoclimatic time series"
Physica D., **35**, 395
- Viereck R.A. y Deehr C.S. (1989)
"On the interaction between gravity waves and the OH Meinel (6-2) and the O_2 Atmospheric (0-1) bands in the polar night airglow"
J. Geophys. Res., **94**, 5397

- Walterscheid R.L. y Schubert G. (1987)
"A dynamical-chemical model of tidally driven fluctuations in the OH nightglow"
J. Geophys. Res., **92**, 8775
- Walterscheid R.L., Schubert G. y Strauss J.M. (1987)
"A dynamical-chemical model of wave-driven fluctuations in the OH nightglow"
J. Geophys. Res., **92**, 1241
- Walterscheid R.L., Schubert G. y Hickey M. P. (1994)
"Comparison of theories for gravity wave fluctuations in airglow emissions".
J. Geophys. Res., **99**, 3935
- Watson J. K. G. (1968)
Can. J. Phys., **46**, 1637
- Weinstock, J., (1978)
"Theory of the interaction of gravity waves with $O_2(^1\Sigma)$ airglow"
J.geophys.Res. **83**, 5175
- Weinstock J. (1985)
"Theoretical gravity wave spectrum in the atmosphere: strong and weak wave interactions"
Radio Sci., **20**, 1295
- Witt G., Stegman J., Solheim B. H. y Llewellyn E. J. (1979)
"A measurement of the $O_2(b^1\Sigma_g^+ - X^3\Sigma_g^-)$ atmospheric band and the $OI(^1S)$ green line in the nightglow"
- Zhang S.P., Peterson R.N., Wiens R.H. y Shepherd G.G. (1993)
"Gravity waves from O_2 nightglow during the AIDA '89 campaign. I: Emission rate/temperature observations"
J. atmos. terr. Phys., **55**, 355
"...II: Emission rate/temperature ratio η "
J. atmos. terr. Phys., **55**, 377