

List of Publications by Professor Dr. A.A.M. (Bert) Holtslag until the year 1999 produced during the affiliations with KNMI, Utrecht University and NCAR.

See <http://www.met.wau.nl> for the list of publications produced during my affiliation (since May 1999) with the Meteorology and Air Quality Section at Wageningen University, NL

### **Refereed papers**

Cats, G.J., and A.A.M. Holtslag, 1980: Prediction of air pollution frequency distribution, Part I: The Lognormal model. *Atmos. Environ.*, 14, 255-258.

Bruin, H.A.R. de, and A.A.M. Holtslag, 1982: A simple parameterization of the surface fluxes of sensible and latent heat during daytime compared with the Penman-Monteith concept. *J. Appl. Meteorol.*, 21, 1610-1621.

Holtslag, A.A.M., and A.P. van Ulden, 1983: A simple scheme for daytime estimates of the surface fluxes from routine weather data. *J. Clim. Appl. Meteorol.*, 22, 517-529.

Holtslag, A.A.M., 1984: Estimates of diabatic wind speed profiles from near surface weather observations. *Boundary-Layer Meteorol.*, 29, 225-250.

Ulden, A.P. van, and A.A.M. Holtslag, 1985: Estimation of atmospheric boundary layer parameters for diffusion applications. *J. Clim. Appl. Meteorol.*, 24, 1196-1207.

Driedonks, A.G.M., J. Reiff, and A.A.M. Holtslag, 1985: Mesoscale results of an air mass transformation model in a coastal area. *Contributions to Atm. Physics*, 58, 361- 379.

Holtslag, A.A.M., and F.T.M. Nieuwstadt, 1986: Scaling the atmospheric boundary layer. *Boundary-Layer Meteorol.*, 36, 201-209.

Gryning, S.E., A.A.M. Holtslag, J.S. Irwin, and B. Sivertsen, 1987: Applied dispersion modelling based on meteorological scaling parameters. *Atmos. Environ.*, 21, 79-89.

Holtslag, A.A.M., and F.T.M. Nieuwstadt, 1987: Reply to comments on 'Scaling the Atmospheric Boundary Layer'. *Boundary-Layer Meteorol.*, 38, 415-416.

Holtslag, A.A.M., and H.A.R. de Bruin, 1988: Applied modeling of the nighttime surface energy balance over land. *J. Appl. Meteorol.*, 27, 689-704.

Wijk, A.J.M. van, A.C.M. Beljaars, A.A.M. Holtslag, and W.C. Turkenburg, 1990: Diabatic wind speed profiles in coastal regions; Comparison of an internal boundary layer model with observations. *Boundary-Layer Meteorol.*, 51, 49-75.

Beljaars, A.C.M., and A.A.M. Holtslag, 1990: A software library for the calculation of surface fluxes over land and sea. *Environ. Software*, 5, 60-68.

Wijk, A.J.M. van, A.C.M. Beljaars, A.A.M. Holtslag, and W.C. Turkenburg, 1990: Evaluation of stability corrections in wind speed profiles over the North Sea. *J. Wind Eng. Ind. Aerodyn.*, 33, 551-566.

Holtslag, A.A.M., E.I.F. de Bruijn, and H.L. Pan, 1990: A high-resolution air mass transformation model for short range weather forecasting. *Mon. Wea. Rev.*, 118, 1561-1575.

Holtslag, A.A.M., E.I.F. de Bruijn, and H.L. Pan, 1991: Translation of previous paper into

Chinese. Qixiang Keji, 28-37.

Beljaars, A.C.M., and A.A.M. Holtslag, 1991: Flux parameterization over land surfaces for atmospheric models. *J. Appl. Meteor.*, 30, 327-341.

Holtslag, A.A.M., and C.-H. Moeng, 1991: Eddy diffusivity and counter-gradient transport in the convective atmospheric boundary layer. *J. Atm. Sci.*, 48, 1690-1698.

Holtslag, A.A.M., and B.A. Boville, 1993: Local versus nonlocal boundary-layer diffusion in a global climate model. *J. Climate*, 6, 1825-1842.

Pul, W.A.J. van, A.A.M. Holtslag, and D.P.J. Swart, 1994: A comparison of atmospheric boundary layer heights inferred routinely from lidar and radiosondes at noon. *Boundary-Layer Meteorol.*, 68, 173-191.

Holtslag, A.A.M., E. van Meijgaard, and W.C. de Rooy, 1995: A comparison of boundary-layer diffusion schemes in unstable conditions over land. *Boundary-Layer Meteorol.*, 76, 69-95.

Ayotte, K.W., P.P. Sullivan, A. Andren, S.C. Doney, A.A.M. Holtslag, W.G. Large, J.C. McWilliams, C.-H. Moeng, M. Otte, J.J. Tribbia, and J.C. Wyngaard, 1996: An evaluation of neutral and convective planetary boundary-layer parameterizations relative to large eddy simulations. *Boundary-Layer Meteorol.*, 79, 131 -175.

Coelingh, J.P., A.J.M. van Wijk, and A.A.M. Holtslag, 1996: Analysis of wind speed observations over the North Sea. *J. Wind Energy and Industrial Dynamics*, 61, 51-69.

Holtslag, A. A. M., and M. Ek, 1996: Simulation of surface fluxes and boundary layer development over the pine forest in HAPEX-MOBILHY. *J. Applied Meteorol.*, 35, 202 -213.

Siebesma, A.P, and A.A.M. Holtslag, 1996: Model impacts of entrainment and detrainment rates in shallow cumulus convection. *J. Atmos. Sci.*, 53, 2354-2364.

Vogelezang, D.H.P., and A.A.M. Holtslag, 1996: Evaluation and model impacts of alternative boundary-layer height formulations. *Boundary-Layer Meteorol.*, 81, 245-269.

Hurk, B.J.J.M. van den, and A.A.M. Holtslag, 1997: On the bulk parameterization of surface fluxes for various conditions and parameter ranges. *Boundary-Layer Meteorol.*, 82, 119-134.

Verver, G.H.L., H. van Dop, and A.A.M. Holtslag, 1997: Turbulent mixing of reactive gases in the convective boundary layer. *Boundary-Layer Meteorol.*, 85, 197-222.

Cuijpers, J.W.M., and A.A.M. Holtslag, 1998: Impact of skewness and nonlocal effects on scalar and buoyancy fluxes in convective boundary layers. *J. Atmos. Sci.*, 55, 151-162.

Bastiaansen, W.G.M., M. Menenti, R.A. Feddes, and A.A.M. Holtslag, 1998: A remote sensing surface energy balance algorithm for Land (SEBAL). Part 1: Formulation. *J. Hydrology*, 212-213, p. 198-212.

Coelingh, J.P., A.J.M. van Wijk, and A.A.M. Holtslag, 1998: Analysis of wind speed observations on the North Sea Coast. *J. Wind Energy and Industrial Dynamics*, 73, 125-144.

Tijm, A.B.C., A.A.M. Holtslag, and A.J. van Delden, 1999: Observations and modelling of the sea breeze with the return current. *Mon. Wea. Rev.*, 127, 625-640.

Tijm, A.B.C., A.J. van Delden, and A.A.M. Holtslag, 1999: The inland penetration of the sea breeze. *Contrib. At. Physics*, 72, 317-328.

Rooy, W.C. de, and A.A.M. Holtslag, 1999: Estimation of surface radiation and energy fluxes from routine weather data. *J. Applied Meteorology*, 38, 526-540.

Bosveld, F.C., A.A.M. Holtslag, and B.J.J.M. van den Hurk, 1999: Interpretation of crown radiation temperatures of a dense Douglas fir forest with similarity theory. *Boundary-Layer Meteorol.*, 92, 429-451.

Bosveld, F.C., A.A.M. Holtslag, and B.J.J.M. van den Hurk, 1999: Nighttime convection in the interior of a dense Douglas fir forest. *Boundary-Layer Meteorol.*, 93, 171-195.

Petersen, A.C. and A.A.M. Holtslag, 1999: A first order closure for covariances and fluxes of reactive species in the convective boundary layer. *J. Applied Meteorol.*, 38, 1758-1776.

### **Books and invited papers and review reports**

Holtslag, A.A.M., S.E. Gryning, J.S. Irwin, and B. Sivertsen, 1986: Parameterization of the atmospheric boundary layer for air pollution dispersion models. In: *Air Pollution Modeling and Its Application V*, C. de Wispelaere, (Ed.), Plenum Press, 147-175.

Bruin, H.A.R. de, and A.A.M. Holtslag, 1987: Evaporation and weather; Interactions with the planetary boundary layer. *Proceedings and Information*, 39, TNO Committee on Hydrological Research, The Hague.

Holtslag, A.A.M., 1987: Surface fluxes and boundary layer scaling; models and applications. Doctor's thesis at the Agricultural University, Wageningen (Also as KNMI Sci. Rep. 87-2).

Holtslag, A.A.M., and A.C.M. Beljaars, 1989: Surface flux parameterization schemes; developments and experiences at KNMI. *Proceed. Workshop on Parameterization of Fluxes and Land Surfaces*, 24-26 Oct. 1988, 121-147. Published by ECMWF, Reading, 1989 (Also as KNMI Sci. Rep. 88-06, 1988.)

Holtslag, A.A.M., B.A. Boville, and C.-H. Moeng, 1992: A parametrization of the convective boundary layer and its application into a global climate model. *Proceed. Workshop on Finescale modelling and the development of parametrization schemes*, 16-18 Sept, 1991. Published by ECMWF, Reading, 1992 (Also as KNMI Sci. Rep. 91-01, De Bilt, NL).

Spiegel, E. van, L. Bengtsson, M. Ghil, J.B. Opschoor, L. van Wijngaarden, and A.A.M. Holtslag, 1995: *Climate Research at the Royal Netherlands Meteorological Institute (KNMI); Report and Recommendations of the 1994 Review Committee*. Published by KNMI, De Bilt.

Holtslag, A.A.M., 1998: Modelling atmospheric boundary layers. Chapter 4 in: *Holtslag and Duynkerke (1998)*, p. 85-110.

Holtslag, A.A.M., and P.G. Duynkerke, 1998 (editors): *Clear and Cloudy Boundary Layers*. *Proceedings of the colloquium held in Amsterdam, August 1997*. Published by Royal Netherlands Academy of Arts and Sciences (KNAW), Amsterdam, 372 p.

### **Popular publications (in Dutch)**

Wijk, A.J.M. van, and A.A.M. Holtslag, 1984: Opbrengst grote molens onderschat. *Duurzame Energie*, 84/4, 15-17.

Duijm, N.J., R. Steenkist, A.A.M. Holtslag, and J. Burgers, 1986: Nieuwe aanbevelingen voor het 'Nationaal Model' voor de berekening van de verspreiding van luchtverontreiniging. *Lucht en Omgeving*, 3, 10-14.

Bruijn, E.I.F. de, and A.A.M. Holtslag, 1994: Het luchtmassatransformatie model: Een hulpmiddel voor de weersverwachting. *Meteorologica*, 3, 21-24.

Holtslag, A.A.M., 1996: Altijd Weer! Atmosferische processen, modellen en verwachtingen. Verslag oratie aan Universiteit Utrecht (ook verschenen in *Meteorologica*, dec. 1996).

Holtslag, A.A.M., 1997: Over grenslagen gesproken! *Meteorologica*, september 1997.

### **Scientific and technical reports**

Holtslag, A.A.M., and F.T.M. Nieuwstadt, 1978: De verspreiding van enkele luchtverontreinigende stoffen, vanaf een eiland in de Noordzee. Onderzoek op verzoek van de stuurgroep studie Noordzee-eiland en terminal. KNMI, De Bilt, NL, Sci. Rep. 78-13.

Holtslag, A.A.M., and A.P. van Ulden, 1980: Estimates of incoming shortwave radiation and net radiation from standard meteorological data. KNMI, De Bilt, NL, Sci. Rep. 80-6.

Dop, H. van, A.A.M. Holtslag, and J.F. den Tonkelaar, 1981: Een waarschuwingsverwachting ten behoeve van een vergunningsverleningsprocedure met methylbromide. KNMI, De Bilt, NL, Techn. Rep. 6.

Holtslag, A.A.M., and A.P. van Ulden, 1982: Simple estimates of nighttime surface fluxes from routine weather data. KNMI, De Bilt, NL, Sci. Rep. 82-4.

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Holtslag, A.A.M., F.T.M. Nieuwstadt, and M.P. Scheele, 1984: Over de aanpassing van het nationale verspreidingsmodel van luchtverontreiniging voor hoge bronnen. KNMI, De Bilt, NL, Techn. Rep. 57.

Holtslag, A.A.M., and members working group on dispersion of air pollution, 1984: Parameters in the long-term model of air pollution dispersion; New recommendations. Report Netherlands Organization of Applied Research (TNO), Delft, NL.

Scheele, M.P., and A.A.M. Holtslag, 1985: Handleiding voor het computerprogramma van het Gaussisch pluimmodel met percentielberekeningen. KNMI, De Bilt, NL, Techn. Rep. 60.

Irwin, J.S., S.E. Gryning, A.A.M. Holtslag, and B. Sivertsen, 1985: Atmospheric diffusion modeling based upon boundary layer parameterization. Report Environmental Protection Agency, Atm. Sci. Res. Lab., Research Triangle Park, NC, USA.

Reiff, J., A.G.M. Driedonks, and A.A.M. Holtslag, 1986: Report of the workshop on boundary layer models in short range weather forecasting. KNMI, De Bilt, NL, Sci. Rep. 86-4.

Wijk, A.J.M. van, W.C. Turkenburg, A.C.M. Beljaars, and A.A.M. Holtslag, 1987: Een model voor het opschalen en transformeren van de windsnelheid in kustgebieden. Rijksuniversiteit Utrecht, NL, Rapport NSS-87-10.

Beljaars, A.C.M., A.A.M. Holtslag, and R.M. van Westrhenen, 1989: Description of a software library for the calculation of surface fluxes. KNMI, De Bilt, NL, Techn. Rep. 112, 32p.

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Bruijn, E.I.F. de, and A.A.M. Holtslag, 1990: Technical description of the high-resolution air mass transformation model at KNMI. KNMI, De Bilt, NL, Techn. Rep. 125.

Mahrt, L., M. Ek, J. Kim, A.A.M. Holtslag, 1991: Boundary layer parameterization for a global spectral model. Phillips laboratory, Hanscom USA, report PL-TR-91-2031.

Gollvik, S., B. Bringfelt, V. Perov, and A.A.M. Holtslag, 1995: Experiments with nonlocal vertical diffusion in HIRLAM. HIRLAM Technical Report 18. Published by SMHI, Sweden.

Moene, A.F., H.A.R. de Bruin, and A.A.M. Holtslag, 1995: Validation of the surface parameterization of HIRLAM using surface-based measurements and remote sensing data. Combined report of KNMI, De Bilt and Agricultural University Wageningen, NL, Sci. Rep. 95-7, 51p.

Eijk, M. van, G. Burgers and A.A.M. Holtslag, 1997: An evaluation of two ocean mixed-layer models. KNMI Preprints 97-01, 40 p.

### **Conference contributions**

Holtslag, A.A.M., A.P. van Ulden, and H.A.R. de Bruin, 1980: Estimation of the sensible heat flux from standard meteorological data for stability calculations during daytime. Intern. Tech. Meeting on Air Pollution Modeling and Its Application, 24-27 Nov., Amsterdam, part I, 260-265.

Ulden, A.P. van, and A.A.M. Holtslag, 1980: The wind at heights between 10m and 200m in comparison with the geostrophic wind. Seminar on radioactive releases and their dispersion in the atmosphere following a hypothetical reactor accident, Vol 1, E.C. commission, Luxemburg.

Holtslag, A.A.M., 1982: Estimates of vertical diffusion from sources near the ground in strongly unstable conditions. Preprints 13th Intern. Techn. Meeting on Air Pollution Modeling and Its Application, Toulon, 14-17 Sept.

Ulden, A.P. van, and A.A.M. Holtslag, 1983: The stability of the atmospheric surface layer during nighttime. Preprints 6th Symp. on Turbulence and Diffusion, AMS, Boston, March.

Wijk, A.J.M. van, A.A.M. Holtslag, and W.C. Turkenburg, 1984: Wind profile stability corrections; their influence on wind energy assessment studies. European Wind Energy Conf. and Exhibition, Hamburg, 22-26 Oct.

Holtslag, A.A.M., and A.J.M. van Wijk, 1985: Transformatie van de wind naar hoogten boven 30 m voor opbrengstberekningen van windmolens. Nationale Windenergie Conferentie, Noordwijkerhout, 17-19 Dec.

Wijk, A.J.M. van, F.D.J. Nieuwenhout, W.C. Turkenburg, A.G.M. Driedonks, A.A.M. Holtslag, and A.C.M. Beljaars, 1986: Development of a diabatic procedure for wind speed extrapolation in a coastal region. European Wind Energy Conf. and Exhibition, Rome, October 7-9.

Sivertsen, B., S.E. Gryning, A.A.M. Holtslag, and J.S. Irwin, 1986: Atmospheric dispersion modelling based upon boundary layer parameterization. In Air Pollution Modeling and Its Application. (Ed.) V, C. de Wispelaere, Plenum Press, 177-194.

Wijk, A.J.M. van, A.C.M. Beljaars, A.A.M. Holtslag, and W.C. Turkenburg, 1988: Een model voor de opschaling en transformatie van de windsnelheid in kustgebieden. Nationale Windenergie Conferentie, Noordwijkerhout, 22-24 Feb.

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Wijk, A.J.M. van, A.C.M. Beljaars, A.A.M. Holtslag, W.C. Turkenburg, 1989: Diabatic wind speed profiles in topographical flat coastal regions. Windpower '89 Conf. and Exhibition, San Francisco, USA, Sept.

Holtslag, A.A.M., and M. Ek, 1990: Simulation of surface fluxes and skin temperature; Preliminary results for the pine forest in HAPEX-MOBILHY. Proceed. 9th Symp. on Turbulence and Diffusion, Roskilde, Denmark, April 30-May 3, 188-191. Published by AMS, Boston, USA.

Holtslag, A.A.M., and M. Ek, 1990: Simulation of surface fluxes and skin temperature over the pine forest in 'HAPEX-MOBILHY'. European Geophysical Society, XV General Assembly, Copenhagen, April 23-27. Annales Geophysicae, special issue, 149.

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Holtslag, A.A.M., and C.-H. Moeng, 1991: On vertical exchange of heat and scalars in the convective atmospheric boundary layer. European Geophysical Society, XVI General Assembly, Wiesbaden, April 22-26. Annales Geophysicae, 9 suppl., C217.

Verver, G.H.L., and A.A.M. Holtslag, 1991: Sensitivity of an operational puff dispersion model to alternative estimates of mixed-layer depth. International Technical Meeting on air pollution modelling and its application, Ierapetra (Greece), 29 Sept.-4 Oct.

Holtslag, A.A.M., and B.A. Boville, 1992: Local versus nonlocal boundary-layer diffusion in a global climate model. European Geophysical Society, XVI General Assembly, Edinburgh, April 6-10. Annales Geophysicae, Suppl. II, Vol. 10, p. C274.

Siebesma, A.P., and A.A.M. Holtslag, 1994: Evaluation of a shallow convection parametrization scheme with large-eddy-model results. European Conference on the Global Energy and Water Cycle, London, July (Abstract 1.46).

- Cuijpers, J.W.M. A.A.M. Holtslag, P.G. Duynkerke, 1996: Towards a parameterization of cloudy convective boundary layers, Third Netherlands Geosciences Conference (NAC), Veldhoven, 2 and 3 May 1996 (Proceedings, presentation 56).
- Vogelezang, D.H.P., and A.A.M. Holtslag, 1996: Evaluation and model impacts of alternative boundary-layer height formulations. Third Netherlands Geosciences Conference (NAC), Veldhoven, 2 and 3 May 1996 (Proceedings, presentation 58).
- Cuijpers, J.W.M. A.A.M. Holtslag, P.G. Duynkerke, 1996: Transport asymmetry in cloudy convective boundary layers. European Geophysical Society Conference, The Hague, 6-10 May 1996. *Annales Geophysicae*, Suppl. II, Vol. 14, C 473.
- Eijk, M. van, G. Burgers, A.A.M. Holtslag, 1996: A comparison of ocean mixed-layer models for BOMEX. European Geophysical Society Conference, The Hague, 6-10 May 1996. *Annales Geophysicae*, Suppl. II, Vol. 14, C 436.
- Ek, M. and A.A.M. Holtslag, 1996: Interactions of the atmospheric boundary layer with the land surface at Cabauw'. European Geophysical Society Conference, The Hague, 6-10 May 1996. *Annales Geophysicae*, Suppl. II, Vol. 14, C 516.
- Holtslag, A.A.M., M. Ek, 1996: Simulation of surface fluxes and boundary layer development over the pine forest in Hapex-Mobilhy'. European Geophysical Society Conference, The Hague, 6-10 May 1996. *Annales Geophysicae*, Suppl. II, Vol. 14, C 517.
- Holtslag, A.A.M., E. van Meijgaard, 1996: 'Comparison of boundary layer diffusion schemes in unstable conditions over land'. European Geophysical Society Conference, The Hague, 6-10 May 1996. *Annales Geophysicae*, Suppl. II, Vol. 14, C 474.
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- Zanten, M. van, E. van Meijgaard, A.A.M. Holtslag, 1996: Model evaluation of cloud cover and shallow convection over land: A case study. European Geophysical Society Conference, The Hague, 6-10 May 1996. *Annales Geophysicae*, Suppl. II, Vol. 14, C 477.
- Meijgaard, E. van, M. van Zanten, A.A.M. Holtslag, 1996: Model evaluation of cloud cover and shallow convection over land: A case study. 2nd International Scientific Conference on the Global Energy and Water Cycle, Washington, 17 -21 June 1996. Proceedings, p 303-304.
- Tijm, A.B.C., A.A.M. Holtslag, and A.J. van Delden, 1996: Description and validation of a simple dynamic model for sea breeze studies. 7th Conference on Mesoscale Processes, Reading UK, 9-13 sept, p.567-578.
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Processes, Reading UK, 9-13 sept, p. 597-598.

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Cuijpers, H., P.G. Duynkerke, and A.A.M. Holtslag, 1997: Modelling and evaluation of scalar fluxes in convective boundary layers. Proceedings 12th Symposium on Boundary Layers and Turbulence, Vancouver, 28 July-1 August, p. 180-181.

Verver, G.H.L., H. van Dop, and A.A.M. Holtslag, 1997: A model for turbulent mixing of reactive gases in the convective boundary layer. Proceedings 12th Symposium on Boundary Layers and Turbulence, Vancouver, 28 July-1 August, p. 110-111.

Vogelezang, D.H.P., and A.A.M. Holtslag, 1997: Entrainment and nonlocal mixing in atmospheric boundary layers. Proceedings 12th Symposium on Boundary Layers and Turbulence, Vancouver, 28 July-1 August, p. 54-55.

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