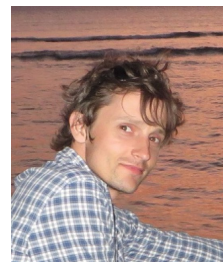


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Short presentation

My research focus is the interrelations between **soil hydrology**, **biogeochemistry** and **microbial communities** and how environmental changes affect soils ability to produce clean water and store greenhouse gases. My research focuses on fundamental understanding of greenhouse gas cycling in soils, developing new methods for greenhouse gas detection and applied aspects in relation to management practices and climate mitigation tools. Besides doing research, I am teaching in bachelor and master courses in the subjects of field methods, ecosystem hydrology and soil biogeochemistry. I am also supervising bachelor and master students projects within hydrology and biogeochemistry.

Publications

Temporal dynamics of subglacial methane emissions revealed through continuous measurements at the margin of the Greenland Ice Sheet

Sapper, Sarah Elise, Jørgensen, C. J., Adnew, G. A., Blunier, Thomas & Christiansen, Jesper Riis, 11 Mar 2024.

Clumped isotopes as a tool to discern the sources and sinks of methane in a subglacial environment

Adnew, G. A., Röckmann, T., Blunier, Thomas, Jørgensen, C. J., Sivan, M., Sapper, Sarah Elise, Popa, M. E., Veen, C. V. D. & Christiansen, Jesper Riis, 8 Mar 2024.

Mikro-organismer i jorden vender op og ned på metanregnskabet

Eiberling, Bo, D'Imperio, Ludovica & Christiansen, Jesper Riis, 2024, In: *Aktuel Naturvidenskab*. 2024, 1, p. 36-40

Spatial variation of net methane uptake in Arctic and subarctic drylands of Canada and Greenland

Jørgensen, C. J., Mariager, T. S. & Christiansen, Jesper Riis, 2024, In: *Geoderma*. 443, 12 p., 116815.

Constraining sources and sinks of subglacial methane from the Greenland ice sheet using clumped isotopes

Adnew, G. A., Schroll, M., Sapper, Sarah Elise, Röckmann, T., Popa, M. E., Jørgensen, C. J., Keppler, F., van der Veen, C., Sivan, M., Blunier, Thomas & Christiansen, Jesper Riis, 2023. 2 p.

First measurement of methane emissions from Canadian glaciers in the Yukon

Sapper, Sarah Elise, Jørgensen, C. J., Schroll, M., Keppler, F. & Christiansen, Jesper Riis, 2023.

Klimaeffekter ved genopretning af hydrologi i skove

Christiansen, Jesper Riis & Burns, Rachel Eleanor, 2023, Frederiksberg: Institut for Geovidenskab og Naturforvaltning, Københavns Universitet. 49 p. (IGN Rapport; No. juni 2023).

Methane emissions from subglacial meltwater of three alpine glaciers in Yukon, Canada

Sapper, Sarah Elise, Jørgensen, C. J., Schroll, M., Keppler, F. & Christiansen, Jesper Riis, 2023, In: *Arctic, Antarctic, and Alpine Research*. 55, 1, 13 p., 2284456.

Methylophilic Communities Associated with a Greenland Ice Sheet Methane Release Hotspot

Znamínko, M., Falteisek, L., Vrbická, K., Klímová, P., Christiansen, Jesper Riis, Jørgensen, C. J. & Stibal, M., 2023, In: *Microbial Ecology*. 86, 4, p. 3057-3067

Seasonal dynamics of canopy interception loss within a deciduous and a coniferous forest

Andreasen, Mie, Christiansen, Jesper Riis, Sonnenborg, Torben Obel, Stisen, S. & Zibar, Majken Caroline Looms, 2023, In: Hydrological Processes. 37, 4, 16 p., 14828.

Spatial controls of methane uptake in upland soils across climatic and geological regions in Greenland

D'Imperio, Ludovica, Li, B., Tiedje, J. M., Oh, Y., Christiansen, Jesper Riis, Kepfer Rojas, Sebastian, Westergaard-Nielsen, Andreas, Brandt, Kristian Koefoed, Holm, Peter Engelund, Wang, P., Ambus, Per Lennart & Elberling, Bo, 2023, In: Communications Earth & Environment. 4, 1, 10 p., 461.

The IceWorm: an improved low-cost, low-power sensor for measuring dissolved CH₄ in water bodies

Christiansen, Jesper Riis, Sapper, Sarah Elise & Jørgensen, C. J., 2023. 2 p.

Våd natur kan give væsentlig klimaeffekt – men på lang sigt

Christiansen, Jesper Riis, Jepsen, Martin Rudbeck, Ambus, Per Lennart, Elberling, Bo, Mueller, Carsten W., Bruun, Sander, Busck, Anne Gravsholt, Jensen, Lars Stoumann, Bruun, Hans Henrik, Krøijer, Stine, Jessen, Nina Toudal, Jessen, Søren & Stisen, S., 25 May 2022, BIO (DM).

A strong temperature dependence of soil nitric oxide emission from a temperate forest in Northeast China

Huang, K., Su, C., Liu, D., Duan, Y., Kang, R., Yu, H., Liu, Y., Li, X., Gurmessa, G. A., Quan, Z., Christiansen, Jesper Riis, Zhu, W. & Fang, Y., 2022, In: Agricultural and Forest Meteorology. 323, 11 p., 109035.

Assessing modelled hydrological responses to afforestation using hectometre-scale cosmic-ray neutron soil moisture

Andreasen, Mie, Christiansen, Jesper Riis, Sonnenborg, Torben Obel, Stisen, S. & Zibar, Majken Caroline Looms, 2022. 1 p.

Climate mitigation potential and soil microbial response of cyanobacteria-fertilized bioenergy crops in a cool semi-arid cropland

Gay, J. D., Goemann, H. M., Currey, B., Stoy, P. C., Christiansen, Jesper Riis, Miller, P. R., Poulter, B., Peyton, B. M. & Brookshire, E. N. J., 2022, In: GCB Bioenergy. 14, 12, p. 1303–1320 18 p.

Disentangling long-term and short-term temperature response of carbon fluxes in a subarctic grassland ecosystem exposed to long-term, geothermal warming

Avila, Linsey Marie, Sigurdsson, B. D., Christiansen, Jesper Riis & Larsen, Klaus Steenberg, 2022. 2 p.

Spatiotemporal variability of CO₂, CH₄ and N₂O fluxes over a soil hydrological gradient reveal soil water-temperature interactions on biogeochemical pathways

Christiansen, Jesper Riis & Larsen, Klaus Steenberg, 2022. 1 p.

Subglacial methane cycling under the Greenland Ice Sheet

Hatton, J., Polášková, A., Garnett, M., Trubac, J., Christiansen, Jesper Riis, Jørgensen, C., Sapper, Sarah Elise, Vinšová, P., Blunier, Thomas, Zarsky, J., Dyonisius, M., Znamínko, M. & Stibal, M., 2022. 2 p.

Temporal relationship between meltwater discharge and CH₄ and CO₂ emissions from the Greenland Ice Sheet

Jørgensen, C. J., Sapper, Sarah Elise, Blunier, Thomas, Gkiñis, Vasilēios & Christiansen, Jesper Riis, 2022. 1 p.

The WaterWorm: a low-cost, low power sensor for the detection of dissolved CH₄ in glacial meltwater

Sapper, Sarah Elise, Christiansen, Jesper Riis & Jørgensen, C. J., 2022. 1 p.

Carbon Emissions From the Edge of the Greenland Ice Sheet Reveal Subglacial Processes of Methane and Carbon Dioxide Turnover

Christiansen, Jesper Riis, Röckmann, T., Popa, M. E., Sapart, C. J. & Jørgensen, C. J., Nov 2021, In: Journal of Geophysical Research: Biogeosciences. 126, 11, 13 p., e2021JG006308.

Abandoned Peatland Ecosystem Response to Secondary Succession

Nielsen, Annelie Skov, Larsen, Klaus Steenberg, Vesterdal, Lars, Gundersen, Per & Christiansen, Jesper Riis, 2021. 2 p.

Inferring ecosystem-level rates of gross primary productivity, respiration, and evapotranspiration with automatic light-dark measurement chambers

Larsen, Klaus Steenberg, Pullens, J. W. M., Avila, Linsey Marie, Bruun, Sander, Chen, J., Christiansen, Jesper Riis, Ibrom, A., Larsen, P., Lærke, P. E., Jørgensen, P. & Tariq, Azeem, 2021.

No evidence for large subglacial source of mercury from the southwestern margin of the Greenland Ice Sheet

Jørgensen, C. J., Søndergaard, J., Larsen, M. M., Kjeldsen, K. K., Rosa, D., Sapper, Sarah Elise, Christiansen, Jesper Riis & Albers, C. N., 2021, EarthArXiv, 9 p.

Global Research Alliance N₂O chamber methodology guidelines: Design considerations

Clough, T. J., Rochette, P., Thomas, S. M., Pihlatie, M., Christiansen, Jesper Riis & Thorman, R. E., 1 Sep 2020, In: Journal of Environmental Quality. 49, 5, p. 1081-1091 12 p.

Continuous methane concentration measurements at the Greenland ice sheet-atmosphere interface using a low-cost, low-power metal oxide sensor system

Jørgensen, C. J., Mønster, J., Fuglsang, K. & Christiansen, Jesper Riis, 2020, In: Atmospheric Measurement Techniques. 13, 6, p. 3319-3328 10 p.

N-udvaskning efter skovrejsning på to lokaliteter på Sjælland

Gundersen, Per, de la Riva Valdes, P. J. & Christiansen, Jesper Riis, 2020, 1 ed. København. 46 p.

Response of heterotrophic respiration and oxidation of atmospheric CH₄ to changes in soil moisture and temperature in drylands across a global climate and ecosystem gradient

Hessilt, T., Hauptmann, D. L. & Christiansen, Jesper Riis, 2020. 1 p.

Revealing unknown subglacial carbon processes using high frequency gas measurements and stable isotopes

Christiansen, Jesper Riis, Röckmann, T., Popa, E., Sapart, C. J. & Jørgensen, C. J., 2020. 1 p.

Rewet or not – insights on spatiotemporal patterns of greenhouse gas fluxes from soils in a rewetted Danish forested wetland

Larsen, Klaus Steenberg & Christiansen, Jesper Riis, 2020. 1 p.

High-resolution, ecosystem-level CO₂, H₂O and CH₄ fluxes with novel automatic light/dark chamber

Larsen, Klaus Steenberg, Jørgensen, P. & Christiansen, Jesper Riis, 2019, In: Geophysical Research Abstracts. 21, 1 p., EGU2019-5594.

Reviews and syntheses: Greenhouse gas exchange data from drained organic forest soils - a review of current approaches and recommendations for future research

Jauhainen, J., Alm, J., Bjarnadottir, B., Callesen, I., Christiansen, J. R., Clarke, N., Dalsgaard, L., He, H., Jordan, S., Kazanaviciūtė, V., Klemedtsson, L., Lauren, A., Lazdins, A., Lehtonen, A., Lohila, A., Lupikis, A., Mander, Ü., Minkkinen, K., Kasimir, Å., Olsson, M. & 7 others, Ojanen, P., Óskarsson, H., Sigurdsson, B. D., Søgaard, G., Soosaar, K., Vesterdal, Lars & Laiho, R., 2019, In: Biogeosciences. 16, 23, p. 4687-4703 17 p.

First observation of direct methane emission to the atmosphere from the subglacial domain of the Greenland Ice Sheet

Christiansen, Jesper Riis & Jørgensen, C. J., 2018, In: Scientific Reports. 8, 6 p., 16623.

High-resolution ecosystem-level CO₂ and CH₄ fluxes with novel automatic chamber techniques

Larsen, Klaus Steenberg, Christiansen, Jesper Riis & Jørgensen, P., 2018, In: Geophysical Research Abstracts. 20, 1 p., EGU2018-10252.

Metan fra skovene - mere mellem himmel og jord

Felby, C., Christiansen, Jesper Riis, Bentsen, Niclas Scott & Skov, Simon, 2018, In: Forskning i Bioenergi, Brint & Brændselsceller. 15, 63, p. 3-6 4 p.

To replicate, or not to replicate: Should we shift to unreplicated multi-level designs in ecological experimentation?

Schweiger, Andreas, Kreyling, J., Bahn, M., Ineson, P., Migliavacca, M., Christiansen, Jesper Riis & Larsen, Klaus Steenberg, 2018, In: Geophysical Research Abstracts. 20, 1 p., EGU2018-11902.

To replicate, or not to replicate - that is the question: how to tackle nonlinear responses in ecological experiments

Kreyling, J., Schweiger, A. H., Bahn, M., Ineson, P., Migliavacca, M., Morel-Journel, T., Christiansen, Jesper Riis, Schtickzelle, N. & Larsen, Klaus Steenberg, 2018, In: Ecology Letters. 21, 11, p. 1629-1638 10 p.

Analyzing the hydrological impact of afforestation and tree species in two catchments with contrasting soil properties using the spatially distributed model MIKE SHE SWET

Sonnenborg, Torben Obel, Christiansen, Jesper Riis, Pang, B., Bruge, A., Stisen, S. & Gundersen, Per, 2017, In: Agricultural and Forest Meteorology. 239, p. 118-133 16 p.

Different soil moisture control of net methane oxidation and production in organic upland and wet forest soils of the Pacific coastal rainforest in Canada

Christiansen, Jesper Riis, Levy-Booth, D. J., Prescott, C. E. & Grayston, S. J., 2017, In: Canadian Journal of Forest Research. 47, 5, p. 628-635 8 p.

Indirect microbial effects on methane flux are stronger when the environmental influence is weaker in a temperate forest ecosystem

Barker, J. S., Christiansen, Jesper Riis & Grayston, S., 2017, In: Soil Biology & Biochemistry. 105, p. 92-95 4 p.

Site preparation and fertilization of wet forests alter soil bacterial and fungal abundance, community profiles and CO₂ fluxes

Levy-Booth, D. J., Prescott, C. E., Christiansen, Jesper Riis & Grayston, S. J., 1 Sep 2016, In: Forest Ecology and Management. 375, p. 159-171

Microbial and environmental controls of methane fluxes along a soil moisture gradient in a Pacific coastal temperate rainforest

Christiansen, Jesper Riis, Levy-Booth, D., Prescott, C. E. & Grayston, S. J., 2016, In: Ecosystems. 19, 7, p. 1255-1270 16 p.

Forest canopy water fluxes can be estimated using canopy structure metrics derived from airborne light detection and ranging (LiDAR)

Schumacher, J. & Christiansen, Jesper Riis, 5 Apr 2015, In: Agricultural and Forest Meteorology. 203, p. 131-141 11 p.

Comparison of CO₂, CH₄ and N₂O soil-atmosphere exchange measured in static chambers with cavity ring-down spectroscopy and gas chromatography

Christiansen, Jesper Riis, Outhwaite, J. & Smukler, S. M., 2015, In: Agricultural and Forest Meteorology. 211-212, p. 48-57 10 p.

Methane fluxes and the functional groups of methanotrophs and methanogens in a young Arctic landscape on Disko Island, West Greenland

Christiansen, Jesper Riis, Barrera Romero, A. J., Jørgensen, Niels O. G., Glaring, M. A., Jørgensen, C. J., Berg, L. K. & Elberling, Bo, 2015, In: Biogeochemistry. 122, 1, p. 15-33 19 p.

Conversion of cropland to forest increases soil CH₄ oxidation and abundance of CH₄ oxidizing bacteria with stand age

Bárcena, T. G., D'Imperio, Ludovica, Gundersen, Per, Vesterdal, Lars, Priemé, Anders & Christiansen, Jesper Riis, 2014, In: Applied Soil Ecology. 79, p. 49-58 10 p.

Comparison of static chambers to measure CH₄ emissions from soils

Pihlatie, M. K., Christiansen, Jesper Riis, Aaltonen, H., Korhonen, J. F. J., Nordbo, A., Rasilo, T., Benanti, G., Giebels, M., Helmy, M., Sheehy, J., Jones, S., Juszczak, R., Klefoth, R., Lobo-do-Vale, R., Rosa, A. P., Schreiber, P., Serca, D., Vicca, S., Wolf, B. & Pumpanen, J., 2013, In: Agricultural and Forest Meteorology. 171-172, p. 124-136 13 p.

The natural abundance of ^{15}N in litter and soil profiles under six temperate tree species: N cycling depends on tree species traits and site fertility

Callesen, Ingeborg, Nilsson, L. O., Schmidt, Inger Kappel, Vesterdal, Lars, Ambus, Per Lennart, Christiansen, Jesper Riis, Högberg, P. & Gundersen, Per, 2013, In: *Plant and Soil*. 368, 1-2, p. 375–392 18 p.

Influence of hydromorphic soil conditions on greenhouse gas emissions and soil carbon stocks in a Danish temperate forest

Christiansen, Jesper Riis, Gundersen, Per, Frederiksen, P. & Vesterdal, Lars, 2012, In: *Forest Ecology and Management*. 284, p. 185-195 11 p.

Mere vand i skoven: giver mere gas i atmosfæren

Christiansen, Jesper Riis, Vesterdal, Lars, Gundersen, Per & Frederiksen, P., 2012, In: *Aktuel Naturvidenskab*. 1, p. 34-37 4 p.

Nitrous oxide and methane exchange in two small temperate forest catchments - effects of hydrological gradients and implications for global warming potentials of forest soils

Christiansen, Jesper Riis, Vesterdal, Lars & Gundersen, Per, 2012, In: *Biogeochemistry*. 107, 1-3, p. 437-454 18 p.

Soil respiration and rates of soil carbon turnover differ among six common European tree species

Vesterdal, Lars, Elberling, Bo, Christiansen, Jesper Riis, Callesen, Ingeborg & Schmidt, Inger Kappel, 2012, In: *Forest Ecology and Management*. 264, p. 185-196 12 p.

The response of methane and nitrous oxide fluxes to forest change in Europe

Gundersen, Per, Christiansen, Jesper Riis, Alberti, G., Brüggemann, N., Castaldi, S., Gasche, R., Kitzler, B., Klemetsson, L., Lobo-do-Vale, R., Moldan, F., Rütting, T., Schleppi, P., Weslien, P. & Zechmeister-Boltenstern, S., 2012, In: *Biogeosciences*. 9, 10, p. 3999-4012 14 p.

Assessing the effects of chamber placement, manual sampling and headspace mixing on CH_4 fluxes in a laboratory experiment

Christiansen, Jesper Riis, Korhonen, J. F. J., Juszczak, R., Giebels, M. & Pihlatie, M., 2011, In: *Plant and Soil*. 343, 1-2, p. 171-185 15 p.

Stand age and tree species affect N_2O and CH_4 fluxes from afforested soils: [Corrigendum]

Christiansen, Jesper Riis & Gundersen, Per, 2011, In: *Biogeosciences*. 8, p. 2535-2546 12 p.

Stand age and tree species affect N_2O and CH_4 fluxes from afforested soils

Christiansen, Jesper Riis & Gundersen, Per, 2011, *Nitrogen & global change: key findings - future challenges. Conference proceedings, 2011*. 2 p.

The greenhouse gas exchange responses to forest change in Europe

Gundersen, Per, Alberti, G., Brüggeman, N., Christiansen, Jesper Riis, Gasche, R., Kitzler, B., Klemetsson, L., Lobo do Vale, R., Moldan, F., Rütting, T., Weslien, P. & Schleppi, P., 2011, *Nitrogen & global change: key findings - future challenges*. 2 p.

Development N_2O and CH_4 fluxes in Danish oak and Norway spruce forests - using chronosequence to study long-term trends

Christiansen, Jesper Riis & Gundersen, Per, 2010, In: *Open Science Conferene. Reactive Nirtrogen and the European Greenhouse Gas Balance. February, 3rd and 4th, 2010. Landhaus, Solothurn..* p. 55-56 2 p.

Greenhouse gas exchange and nitrogen loss under forest change: the role of tree species, land use history and wet forest soils

Christiansen, Jesper Riis, 2010, *Forest & Landscape, University of Copenhagen*. 217 p.

Role of six European tree species and land-use legacy for nitrogen and water budgets in forests

Christiansen, Jesper Riis, Vesterdal, Lars, Callesen, I., Elberling, Bo, Schmidt, Inger Kappel & Gundersen, Per, 2010, In: *Global Change Biology*. 16, 8, p. 2224-2240 17 p.

Role of six European tree species and land-use legacy for nitrogen and water budgets in forests

Christiansen, Jesper Riis, Vesterdal, Lars, Callesen, Ingeborg, Elberling, Bo, Schmidt, Inger Kappel & Gundersen, Per, 2010, In: *Global Change Biology*. 16, 8, p. 2224-2240

Do indicators of nitrogen retention and leaching differ between coniferous and broadleaved forests in Denmark?

Gundersen, Per, Sevel, L., Christiansen, Jesper Riis, Vesterdal, Lars, Hansen, K. I. & Bastrup-Birk, Annemarie, 2009, In: *Forest Ecology and Management*. 258, 7, p. 1137-1146 10 p.

Soil-atmosphere exchange of N₂O, CO₂ and CH₄ along a slope of an evergreen broad-leaved forest in southern China

Fang, Y., Gundersen, Per, Zhang, W., Zhou, G., Christiansen, Jesper Riis, Mo, J., Dong, S. & Zhang, T., 2009, In: *Plant and Soil*. 319, 1-2, p. 37-48 12 p.

Nedsivning af vand under otte danske skove

Christiansen, Jesper Riis, Vesterdal, Lars, Hansen, K. I., Sevel, L., Gundersen, Per & Bastrup-Birk, Annemarie, 2008, In: *Videnblade Skov og Natur*. 8.5-20, 2 p.

Nitratudvaskning fra otte danske skove

Sevel, L., Hansen, K. I., Vesterdal, Lars, Christiansen, Jesper Riis & Bastrup-Birk, Annemarie, 2008, In: *Videnblade Skov og Natur*. 8.5-21, 2 p.

Water seepage and nitrogen input-output budgets for 8 Danish level II plots

Sevel, L., Vesterdal, Lars, Hansen, K. I., Bastrup-Birk, Annemarie & Christiansen, Jesper Riis, 2008, *Scientific Seminar on Forest Condition Monitoring and Ecosystem Functioning in Northern Europe under the Forest Focus and ICP Forests Programmes: proceedings*. Derome, J., Lindroos, A-J. & Kilponen, T. (eds.). Finnish Forest Research Institute, p. 35-38 4 p. (Working Paper of the Finnish Forest Research Institute; No. 74).

Ex-post evaluation of extensive and intensive forest condition monitoring in Denmark under Forest Focus 2003-2006

Vesterdal, Lars, Hansen, K., Thomsen, Iben Margrete, Sevel, L. & Christiansen, Jesper Riis, 2007, Frederiksberg: Center for Skov, Landskab og Planlægning/Københavns Universitet. 23 p.

Hvor stor er nedsivningen til grundvandet under skove?

Christiansen, Jesper Riis, Vesterdal, Lars, Sevel, L., Hansen, K. & Bastrup-Birk, A., 2006, In: *Skoven*. 38, 12, p. 562-565 4 p.

Modelling water balance and nitrate leaching in Danish temperate Norway spruce and beech forests

Christiansen, Jesper Riis, Elberling, B., Jansson, P., Callesen, Ingeborg & Vesterdal, Lars, 2006. 1 p.

Modelling water balance and nitrate leaching in temperate Norway spruce and beech forests located on similar soil type.

Christiansen, Jesper Riis, Elberling, B., Jansson, P., Callesen, Ingeborg & Vesterdal, Lars, 2006. 1 p.

Modelling water balance and nitrate leaching in temperate Norway spruce and beech forests located on the same soil type

Christiansen, Jesper Riis, Elberling, B., Jansson, P., Callesen, Ingeborg & Vesterdal, Lars, 2006, *Ikke angivet*. Kovar, K., Hrkal, Z. & Bruthans, J. (eds.). Unesco, 4 p.

Modelling water balance and nitrate leaching in temperate Norway spruce and beech forests located on the same soil type with the CoupModel

Christiansen, Jesper Riis, Elberling, Bo & Jansson, P., 2006, In: *Forest Ecology and Management*. 237, 1-3, p. 545-556 12 p.

Nitratudvaskning fra skove: hvad betyder kvælstoftilførsel og skovtype?

Sevel, L., Vesterdal, Lars, Hansen, K., Christiansen, Jesper Riis & Bastrup-Birk, A., 2006, In: *Skoven*. 38, 12, p. 566-569 4 p.

Rapport for projektet "Udledning af drivhusgasserne metan og lattergas fra våde skovjorde"

Vesterdal, Lars, Schmidt, Inger Kappel, Gundersen, Per, Christiansen, Jesper Riis & Frederiksen, P., 2006, Center for Skov, Landskab og Planlægning/Københavns Universitet. 11 p.