Climate Change Bulletin

September 2026

New evidence relating to the impact on health equity of climate change in Scotland and beyond

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Recent peer-reviewed journal articles

A selection of publications from the last month relating to climate change and health. Search criteria are available upon request from Knowledge Services and will be reviewed regularly to consider appropriateness and/or new areas of interest.

The searches are undertaken by PHS Knowledge Services. If you need any help with obtaining the full text of any of the articles, please contact **phs.knowledge@phs.scot**

Climate policy, health systems, justice and adaptation

- Abbott J, Tabakov P, Vernon S, Pascale F, Bhutta MF. **How can UK hospitals transform to net zero carbon emissions?** British Journal of Hospital Medicine. 2026;87(9)53431.

- Adamopoulos I, Eslahi AV, Syrou N, Frantzana A, Tsirkas P, Mpourazanis G, et al. **Climate change impacts on one health systems: A narrative review of empirical evidence and policy responses**. Public health challenges. 2026;5(3)e70351.

- Adamopoulos I, Eslahi AV, Syrou N, Diamanti K, Katsogiannou M, Tsirkas P, et al. **Climate justice and one health adaptation policies in public health and disaster medicine**. Public health challenges. 2026;5(3)e70370.

- Albin M, Turner MC, Svensson S, Njoroge M, Viegas S, Mathieu C, et al. **Work as the missing link in Europe's Climate and Health Strategic Research Agenda**. Scandinavian Journal of Work, Environment & Health. 2026;

- Beyer R, Dorner TE, Fastl C, Wochele-Thoma T. **Climate Protection and Climate Change Adaptation in Residential and Nursing Homes: Perspectives and Fields of Action from Expert Interviews**. Gesundheitswesen (Bundesverband der Arzte des Offentlichen Gesundheitsdienstes (Germany)). 2026;

- Gordon-Strachan GM, Parker SY, Harewood HC, Parchment KF, Smith DC, Mendez-Lazaro P, et al. **The 2025 small island developing states report of the**

Lancet Countdown on health and climate change: building resilience in the face of rising heat. The Lancet Global health. 2026;14(9)103961.

- Jones AT, Josewski V, Dewell S, Astle B. **Environmental justice and equity in Canadian nursing for planetary health: an integrative review**. The Canadian Journal of Nursing Research = Revue Canadienne de Recherche En Sciences Infirmieres. 2026;58(3)286–314.
- Kumar M. **Losing your way of life to climate change matters — and we need a way to measure it**. Nature. 2026;657(8133)857–857.
- Limaheluw J, Niese R, Bijkerk-Schram D, Hall LF, De Kraker J, Oostdijk SCJ, et al. **Impacts of long-term climate change on human health: a global scoping review of quantitative research**. BMJ Open. 2026;16(9)e108532.
- Metzendorf M-I, Monsef I, Jones K, Wieland LS, Janka H, Liquitay CE, et al. **Development and validation of pubmed and ovid MEDLINE search filters for exposure pathways linking climate change with public health**. Cochrane Evidence Synthesis and Methods. 2026;4(5)e70105.
- Ojembe BU, Oyinlola O, Udoh F, Wilson NJ, Okoh A, Trinh T, et al. **Climate change-related weather emergencies, aging and inequalities among racialized older adults: An intersectional climate justice framework informed scoping review. Journal of aging studies**. 2026;78101439.
- Parker J. **The agents of climate justice in healthcare**. Bioethics. 2026;40(7)697–706.
- Sodano B, Destefanis C, Vecchi S, De Sario M, Di Girolamo C, Ricceri F. **Climate Change-Related extreme events and inequities in health outcomes: An umbrella review**. Environmental Research. 2026;305(Pt 2)125008.

Sustainable healthcare practice, workforce and education

- Abdelhafez AI, Mohamed MWM, Alrajeh AM, Rosita A, Al Hmaimat N. **Critical care nurses' attitudes, engagement, challenges and other factors influencing**

healthcare sustainability and climate change. Nursing in critical care. 2026;31(5)e70627.

- Alhazmi Y, Kwok PCL, Tu HA, Haider KH, Saini B. **Healthcare professionals' awareness and practice regarding the environmental impact of inhalers: A scoping review**. Respiratory Medicine. 2026;261109069.

- Farina S, Sabatelli A, Di Pumpo M, Ricciardi W, Gualano MR. **Climate change in the workforce: A systematic review of knowledge, attitudes and practices among vulnerable workers categories**. Public Health. 2026;259106494.

- Kyriakoudi SA, Kritsanou E, Anestis A, Makris KC, Tsimtsiou Z. **Climate change and health impacts "through undergraduate medical students'' eyes": a cross-sectional study in Greece."** International journal of environmental health research. 2026;36(9)2487–98.

- Oomkens D, Hazeleger L, Van der Horst D, Duijvestein M. **Patient Perspectives on Climate Change and Sustainable Healthcare Practices: A Cross-Sectional Survey Study in Patients with Inflammatory Bowel Disease**. Journal of gastrointestinal and liver diseases : JGLD. 2026;35(3)363–9.

- Pascual P, Caudwell A, De Man S, Lally M, Desrumaux E, Rigoine de Fougerolles T, et al. **Exploring the Impact of Delivering Allergy Medication as Self-Care on Healthcare Greenhouse Gas Emissions in the United Kingdom**. Advances in therapy. 2026;43(9)4314–24.

- Sayar SE. **Association between midwifery students' awareness of global climate change and their attitudes and behaviours toward medical waste**. Nursing open. 2026;13(9)e70746.

- Schmidt AE, Paulinger G, Dohr S, Kellerberger S, Ernst M, Goldgruber J, et al. **Leaving no one behind in the era of climate change and digitalisation? Barriers to healthy and climate-friendly living among informal caregivers**. Gesundheitswesen (Bundesverband der Arzte des Offentlichen Gesundheitsdienstes (Germany)). 2026;

- Yolcu S. **Climate change and nursing care in major chronic diseases: A scoping review of nursing perspectives and roles**. Healthcare (Basel). 2026;14(18)

Maternal, newborn, child and adolescent health

- Ali SI, Shaban M. **Midwives' Climate Change Awareness, Planetary Health Literacy, and Psychological Preparedness for Climate-Related Maternal and Newborn Risks: A Systematic Review**. International nursing review. 2026;73(3)e70229.

- Álvarez-García C, Aviles-Gonzalez CI, Sanz-Martos S, Álvarez-Nieto C, López-Medina IM, Martínez-Vázquez S, et al. **The impact of climate change on pregnant women's health: A scoping review of reviews**. Nursing reports. 2026;16(9)

- Annan H, King N, Baran I, Bechard M, Pediatric Emergency Research Canada (PERC). **Climate change and the Canadian pediatric emergency medicine experience: an integrated mixed-methods study**. Canadian Journal of Emergency Medical Care. 2026;28(9)845–55.

- Çiçek S, Karakoç H. **The effect of "Green Future with Midwife's Hand" climate change animation on mothers' climate change awareness and behaviors: A randomized controlled study**. Midwifery. 2026;160104856.

- Helldén D, Sjonnesen K, Virla LD, Harper SL, Bernier F, Bryant S, et al. **Climate change health impacts on children in Canada: a systematic review**. BMJ Paediatrics Open. 2026;10(1)

- Liu J, Kypridemos C, Collins B, Matthaios VN. **Impacts of extreme air pollution events on pregnancy outcomes: A systematic review**. Environmental Research. 2026;306(Pt 2)125242.

- Premji SS, Obilor HN, Rae GM, Forcheh N. **Climate-driven perinatal mental health impacts: A pilot study**. Journal of Health Psychology. 2026;13591053261479994.

Infectious diseases, antimicrobial resistance and One Health

- Ahmad A, Waghmare U, Walambe R, Rao P, Munje A, Yeravdekar R, et al. **Climate change impact on disease emergence and antimicrobial resistance: A perspective on transmission and detection**. iScience. 2026;29(9)116694.
- Ali MW, Hosen ME, Rahaman MM, Kinobe R, Jelocnik M, Sarker S. **The Role of Wildlife and Climate Change in the Emergence of One Health-Related Viral Diseases in Australia**. Viruses. 2026;18(9)
- Coulon F, Chen H, Cheng H, Choi K, Juhasz A, Liu X, et al. **From environmental toxicology to integrated environmental health: understanding environmental change, chemical complexity and health in a changing world**. Environment International. 2026;215110454.
- Faverio P, Capuano V, Franco G, Morgante A, Panetta E, Zanini U, et al. **Impact of climate, air pollution, and urbanization on chronic respiratory infections**. Expert review of respiratory medicine. 2026;20(9)1083–95.
- Kalanxhi E, Laxminarayan R. **Climate change and antimicrobial resistance**. Nature Reviews Microbiology. 2026;24(9)610–21.
- Levy K, Kann RS, Carlton EJ. **Waterborne diseases and climate change**. Nature Reviews Microbiology. 2026;24(9)622–36.

Heat, extreme weather, air pollution and environmental exposure

- Chen J, Zhu Q, Guo C, Wu S, Requia WJ, Chen K, et al. **Global, regional and national projections of heatwave-related death burdens under climate change, urbanisation, adaptation and population growth scenarios**. EBioMedicine. 2026;131106419.
- Dinehart C, Delaney SW, Mock L, Racette BA, Miller GW, Kioumourtzoglou M-A, et al. **Extreme heat and hospitalization with Parkinson's disease among older**

adults. Journal of Exposure Science & Environmental Epidemiology. 2026;36(5)974–82.

- Fitton J, Lovato N, Reynolds AC, Pinilla L, Ferguson T, Toson B, et al. **Thermosomnia: Consequences of rising temperatures and climate change for clinical sleep disorders**. Sleep Medicine Reviews. 2026;90102382.
- Gaillard EA. **The effect of flooding on respiratory health in children and adults**. Expert review of respiratory medicine. 2026;1–13.
- Iungman T, Zapata-Diomedi B, Khomenko S, Cirach M, Coloma F, Tonne C, et al. **Projecting long-term population health benefits of urban greening in Barcelona: a life-table modelling approach**. Environment International. 2026;215110436.
- Li S, Tian W, Zheng Y, Li Y, Ogulur I, Zeyneloglu C, et al. **Climate Change-Mediated Temperature Extremes: Effects on the Immune System and Associations with Immune-Related Diseases**. Clinical Reviews in Allergy & Immunology. 2026;69(1)
- Tirico M, Le Bescond V, Sengelin D, Gastineau P, Charvolin-Volta P, Soulhac L, et al. **Characterizing human exposure to traffic-related air pollution through daily activities using an agent-based framework**. Environment International. 2026;215110435.
- Yuan L, Tobias A, Honda Y, Sheng Ng CF, Nishikawa H, Madaniyazi L, et al. **Assessing intergenerational health equity in the mortality impacts of acute and chronic air pollution exposure**. Environment International. 2026;215110515.

Mental health, wellbeing and psychosocial impacts

- Aggarwal NK. **Natural environment interventions decrease tension, fatigue, confusion and negative affect related to climate change**. Evidence-based nursing. 2026;29(4)207.
- Angelier F, Costantini D, Houdelier C, Marasco V. **When does stress build strength? linking stress physiology to resilience in the age of rapid**

environmental change. Bioessays: News and Reviews in Molecular, Cellular and Developmental Biology. 2026;48(9)e70184.

- Maral S, Bilmez H, Satıcı SA. **Understanding the Link between Environmental Identity, Eco-anxiety, Intolerance of Uncertainty and Mental Well-being**. The Psychiatric Quarterly. 2026;97(3)843–64.

Food, allergy, chronic disease, digestive health and ageing

- Kesse-Guyot E, Berlivet J, Meyer E, Julia C, Fezeu LK, Touvier M, et al. **The relationship between food intake and outdoor temperature in a longitudinal study: a public health perspective in the context of global warming**. The American Journal of Clinical Nutrition. 2026;124(3)101430.

- Li H, Wang Y, Zhu R, Sheng H, Zhang S, Chen H, et al. **Climate change and food allergy: adaptations and risks at the intersection of environment and health**. Comprehensive Reviews in Food Science and Food Safety. 2026;25(5)e70628.

- Nava Suarez C, Prasad H, Demidowich AP, Stanback CF, Hussain Q, Zilbermint M. **Climate change and cardiovascular complications of diabetes**. Current Diabetes Reports. 2026;26(1)

- Sadeghi A, Boustani P, Morais R, Leddin D. **Global action in addressing the challenge of environmental change and digestive health: A report card on progress**. Journal of Clinical Gastroenterology. 2026;

- Sharma Poudel R, Shrestha S, Thapa S, Baral A, Chhetri JK, Dhimal M. **Climate change and medication safety in older adults: an overlooked priority for healthy ageing**. The Lancet Healthy longevity. 2026;100911.

Recent grey literature - reports and publications from key organisations

Publications and reports from key organisations within the last month.

- European Climate and Health Observatory. **Training course: Ethics, Law and Governance for Climate and Environmental Action in Public Health** [Internet]. Copenhagen: European Environment Agency; 2026 Sep 23 [cited 2026 Oct 7].

- European Climate and Health Observatory. **JRC: Worsening drought and record heat fuels extraordinary wildfires and extremely low river flows** [Internet]. Copenhagen: European Environment Agency; modified 2026 Sep 15 [cited 2026 Oct 7].

- Government Office for Science. **Impacts of El Niño on the UK** [Internet]. London: GOV.UK; updated 2026 Sep 17 [cited 2026 Oct 7]. The publication considers the potential effects of the developing El Niño on extreme weather, food supply chains and energy markets.

- Mann N. **World Heart Day 2026** [Internet]. London: UK Health Alliance on Climate Change; 2026 Sep 29 [cited 2026 Oct 7]. The article discusses how plant-based food, walking and cycling can support cardiovascular health while helping tackle climate change.

- UK Health Alliance on Climate Change. **UKHACC Newsletter September 2026** [Internet]. London: UK Health Alliance on Climate Change; 2026 Sep 18 [cited 2026 Oct 7]. The newsletter addresses record heat, pressure on ambulance and emergency services, and the need to mitigate climate change.

- UKHSA. **UK invests £331 million to tackle climate-driven instability and protect vulnerable communities**. UKHSA; 2026 Sep 24 [cited 2026 Oct 7].

- Scottish Government. **Giving communities a bigger say in climate action**. [Internet]. Edinburgh: Scottish Government; 2026 Sep 30 [cited 2026 Oct 7].

- Scottish Government. **Our Scotland, Our Future: Public Engagement Strategy for Climate and Nature**. [Internet]. Edinburgh: Scottish Government; 2026 Sep 30 [cited 2026 Oct 7].

- Scottish Government. **National Flood Resilience Strategy: implementation plan**. [Internet]. Edinburgh: Scottish Government; 2026 Sep 23 [cited 2026 Oct 7].

- World Health Organization Regional Office for Europe. **As the climate warms, the threat of wildfires is spreading: how can historically cooler and wetter countries prepare?** [Internet]. Copenhagen: WHO Regional Office for Europe; 2026 Sep 2 [cited 2026 Oct 7]. The release discusses climate change, wildfire risks and preparedness, including the July 2026 Cairngorms wildfire in Scotland.

- World Meteorological Organization. **Global Seasonal Climate Update for September–October–November 2026** [Internet]. Geneva: World Meteorological Organization; 2026 Sep 3 [updated 2026 Sep 10; cited 2026 Oct 7].

- World Meteorological Organization. **WMO Air Quality and Climate Bulletin: No. 6, September 2026** [Internet]. Geneva: World Meteorological Organization; 2026 Sep [cited 2026 Oct 7].

- World Meteorological Organization. **WCM global seasonal climate outlook** [Internet]. Geneva: World Meteorological Organization; updated 2026 Sep 30 [cited 2026 Oct 7].

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