

OR/19/064 Introduction

From Earthwise

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Harrison, A, White, J, Jones, L, Entwisle, D, Hulbert, A, Lee, K, Mansour, M, and Wang, L. 2019. User Guide for the British Geological Survey GeoClimateUKCP09: Clay shrink - swell dataset. *British Geological Survey Internal Report*, OR/19/064.

The British Geological Survey (BGS) is a world-leading geological survey, focusing on public-good science for government, and research to understand earth and environmental processes. BGS are the UK's premier provider of objective and authoritative geoscientific data, information and knowledge to help society to:

- use its natural resources responsibly
- manage environmental change
- be resilient to environmental hazards

BGS provide expert services and impartial advice in all areas of geoscience. As a public sector organisation, BGS are responsible for advising the UK Government on all aspects of geoscience as well as providing impartial geological advice to industry, academia and the public. Our client base is drawn from the public and private sectors both in the UK and internationally.

The BGS is a component body of the Natural Environment Research Council (NERC), part of UK Research and Innovation (UKRI).

BGS data products

Our innovative digital data products aim to help describe the ground surface and sub-surface for the whole of Great Britain. These digital products are based on the outputs of the BGS survey and research programmes and our substantial national data holdings. This data coupled with our in-house geoscientific knowledge are combined to provide products relevant to a wide range of users in central and local government, insurance and housing industry, engineering and environmental business, and the British public.

The BGS geoclimate data product

The purpose of GeoClimateUKCP09 clay shrink-swell is to provide information on the projected future change in susceptibility of clay shrink-swell hazard across Great Britain due to climate change. It considers the changing climate and the associated changes in near-surface ground water content, as well as the static variables of geology and geotechnical properties. Within this user guide, GeoClimateUKCP09 clay shrink-swell is hereafter referred to as GeoClimate.

Two versions of the GeoClimate are available: GeoClimate Open, which is a freely available overview dataset; and GeoClimate Premium, which is a licenced higher resolution and more detailed dataset. GeoClimate Open is designed as an overview for national use, whereas GeoClimate Premium data is designed to provide input data into regional - local risk and mitigation assessments.

The GeoClimate datasets, and accompanying documentation, provide information for users on the **natural** characteristics and properties of shrink-swell prone geological deposits for the assessment of climate change impacts in Great Britain. GeoClimate looks specifically at the geological factors

that influence shrink-swell subsidence and the climatic effects/interactions. It does not consider any human or artificial factors.

Further information on all the digital data provided by the BGS can be found on our website at Data Products or by contacting:

BGS Data Services

British Geological Survey
Environmental Science Centre
Keyworth, Nottingham
NG12 5GG
Direct tel. +44(0)115 936 3143
email digitaldata@bgs.ac.uk

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