# **UK Biobank**

# Home locations: Census and administrative areas

Version 1.1

http://www.ukbiobank.ac.uk/

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#### 1. Overview

Each participant's home location at the time of each assessment has been mapped to a UK Census "Output Area", a small geographic region defined in the <u>England and Wales Census</u> or the <u>Scotland Census</u>. Output areas were mapped using 1-metre grid coordinates for home locations at assessment (for more information on the derivation of the coordinate data, please see <u>Resource 118122</u>).

The output area boundaries are modified slightly at each census and we therefore publish both the 2001 census output area and the 2011 census output area for each participant, both based on the same address location.

Larger aggregated regions are also defined for both census providers. At each level these are always made up of groups of regions from the next level down – no single output area may be split between two Super Output Areas (England and Wales) or two Data Zones (Scotland).

These fields are published in <u>Category 100024</u> and are subject to access restrictions outlined in the description of <u>Category 703</u>, which contains the less-restricted fields. The output areas themselves are not normally made available to researchers, unless absolutely necessary for their research.

This document provides further information about the census and administrative area data.

## 2. Differences in geographies between countries

The fields have been created for participants across England, Wales and Scotland. However, Scotland defines census and administrative areas differently from England and Wales. As well as differences in nomenclature, the populations used are smaller in Scotland than in the rest of the UK; Scottish output areas for example have a minimum population of 50 persons (20 households) compared to 100 persons (40 households) in England and Wales.

A full field list with the roughly equivalent areas merged together in this dataset is as follows:

Field id	Census	England and Wales	Scotland	
20269	2001, original		Output Area (OA)	
	code format	Output Area (OA)		
20270	2001, recoded			
20273	2011			
20271	2001	Lower layer Super Output Area	Data Zone (DZ)	
20274	2011	(LSOA)	Data Zone (DZ)	
20272	2001	Middle layer Super Output Area	Intermediate Zone (IZ)	
20275	2011	MSOA)		
20276	2011	Local Authority District	Council Area	

More information on the differences between census geographies, including population definitions, is available from the <u>National Records of Scotland</u>.

#### 3. Data sources

Data were gathered from a number of different government sources to create the coded fields. A summary of the sources used is below.

Country	Year	Description	Source
		Output Area shapefile	ONS Open Geography Portal
		Mapping from 2001	ONS Open Geography Portal
	2001	OAs to original coding	
		of OAs, LSOAs and	
England/Malos		MSOAs	
England/Wales		Output Area shapefile	ONS Open Geography Portal
	2011	Mapping from 2011	data.gov.uk
		OAs to LSOAs,	
		MSOAs, and Local	
		Authorities	
		Output Area shapefile;	National Records of Scotland
	2001	lookup for original	(boundaries)
		coding of OAs	
		Mapping from 2001	National Records of Scotland
		OAs to DZs	(indexes)
Scotland		IZ shapefile	SpatialData.gov.scot Metadata
Scotland			<u>Portal</u>
		Output Area shapefile	National Records of Scotland
			(boundaries)
	2011	Mapping from 2011	National Records of Scotland
		OAs to DZs, IZs and	(indexes)
		Council Areas	

### 4. Additional information

Codes for 2001 output areas were remapped to new standardised 9-character codes, consistent with all other census geographies. The older codes are made available in case they are of use with older datasets.