BGS Land Gravity Data README

Standard BGS Land Gravity data delivery format

SURVEY_AREA Survey Area
STATION_ID Station Identifier
STATION_CODE Station code
LATITUDE Latitide, OSGB36

Latitide, OSGB36 degrees, positive north Longitude, OSGB36 degrees, positive east

British National Grid, metres British National Grid, metres

Station elevation relative to Ordnance Datum, metres

Elevation unit *

Bouguer Reduction density Mg m⁻³

Base Station Code -980000, mGal

Free Air Anomaly mGal

Inner zone terrain correction mGal Total terrain correction mGal

Total terrain correction Hammer zone Bouguer anomaly value mGal

Data Source *
Reading date
Gravity Reference

*

BOUGUER_DENS
BASE_CODE
OBSERVED_GRAV
FREE AIR AN
ITOT_TC
TOT_TC
TOT_TCZ
BOUGUER ANOMALY
SOURCE

LONGITUDE

GRID_EAST

GRID NORTH

STATION ELEV

ELEVATION UNIT

READING_DATE GRS

TERRAIN CORRECTION NUMBER

*Denotes field unused or frequently unpopulated

UK NATIONAL GRID SER NN_40D82 0	56.185329 -4.454	30 247690.0	701890.0	32.000	2.700	-6	1598.8000	1.9400	0.0000	Q	3.4500	X	1.7700	-79	0	0
UK NATIONAL GRID SER NN_00D91 0	56.171829 -5.116	70 206540.0	702050.0	2.100	2.700	-6	1612.6300	7.6700	0.0000	Q	1.4800	X	8.9100	-79	0	0
UK NATIONAL GRID SER NN_40D83 0	56.186668 -4.467	70 246870.0	702070.0	32.000	2.700	-6	1597.7100	0.7400	0.0000	Q	3.7800	X	0.9000	-79	0	0
UK NATIONAL GRID SER NN_20D90 0	56.181000 -4.754	00 229050.0	702120.0	446.500	2.700	-6	1507.5300	38.9400	0.0000	Q	8.8000	X	-2.8100	-79	0	0
UK NATIONAL GRID SER NN_30D83 0	56.184170 -4.645	70 235820.0	702200.0	731.000	2.700	-6	1442.9301	61.8800	0.0000	Q	19.1400	X	-1.7400	-79	0	0
UK NATIONAL GRID SER NN_40D84 0	56.188332 -4.490	00 245490.0	702310.0	34.000	2.700	-6	1597.2700	0.7700	0.0000	Q	2.7100	X	-0.3700	-79	0	0
UK NATIONAL GRID SER NN_20C84 0	56.181499 -4.843	00 223570.0	702400.0	577.000	2.700	-23	1485.5800	57.2200	0.0000	Q	7.5800	X	-0.5200	-79	0	0
UK NATIONAL GRID SER NN_10C87 0	56.177502 -5.012	70 213050.0	702390.0	110.000	2.700	-6	1585.7500	13.6200	0.0000	Q	5.4700	X	6.6400	-79	0	0
UK NATIONAL GRID SER NN_00C66 0	56.173500 -5.182	30 202440.0	702430.0	53.200	2.700	-27	1601.5601	12.2300	0.0000	Q	1.9300	X	8.1400	-79	0	0
UK NATIONAL GRID SER NN_00D83 0	56.176670 -5.081	30 208760.0	702500.0	6.000	2.700	-6	1610.5601	6.3900	0.0000	Q	2.1200	X	7.8300	-79	0	0
UK NATIONAL GRID SER NN_40C81 0	56.190830 -4.502	00 244760.0	702610.0	62.700	2.700	-6	1591.5400	3.6900	0.0000	Q	2.4100	X	-1.0000	-79	0	0

Note

Anomalies have been calculated with reference to the Geodetic Reference System 1967 (GRS67), the International Gravity Standardisation Net 1971 (IGSN71) and the National Gravity Reference Net 1973 (NGRN73)

Much of the BGS Land gravity data was formatted into 80 columns at time of collection (to fit punch-cards). The format was subsequently expanded to allow conventional units and additional information fields. In many cases the information for the additional fields is unavailable so the fields remain empty.

Some Observed Gravity values were corrupted at some point after processing and have been replaced with a null (999999.0) value