Cartographic standard geological symbol index

This represents the latest version (version 3) of the official BGS cartographic symbols, ornaments and line styles. Version 1.0 was produced in April 1997, following a development project to unify 1:10 000 scale and 1:50 000 scale map symbols (CS/R&D/7). Version 2.0 was produced in February 1999, following geological updates, and inclusion of line styles and area ornaments (RR–99–05). Version 3.0 was produced in September 2002, following geological updates. This version replaces all previous versions.

The British Geological Survey carries out the geological survey of Great Britain and Northern Ireland (the latter as an agency service for the government of Northern Ireland), and of the surrounding continental shelf, as well as its basic research projects. It also undertakes programmes of British technical aid in geology in developing countries as arranged by the Department for International Development and other agencies. The British Geological Survey is a component body of the Natural Environment Research Council.



Description	Symbo	ol .			Area Ornaments		Line Styles	
	nall area of made ground, backfilled pit \sim all area of made ground, above surface \sim	Sherborne Member, 2 nd terrace ≥S _T Silchester Gravel ≤SL _T		Dunsmore Gravel -⊗- Erratic ⊗		Limestone	The offing field, Bougast anomaly	
	Small area of worked ground Small area of landslip ○	Summertown Radley Member, 2 nd terrace Surrey Hill Gravel		Hathern Gravel - Sand and gravel, age uncertain - Sand Sand Sand Sand Sand Sand Sand Sand	Agglomerate	thin bed partings	Axial plane trace of major anticline Axial plane traces of closely spaced anticline/syncline pair	
Mass-movement	Blockfield — Coombe deposits © Clay-with-flints	Syston Sand and Gravel Taplow Gravel Thatcham Gravel		Stanmore Gravel -Š- Upton Sand and Gravel -Ğ- Well Hill Gravel -Ğ-			Axial plane trace of major antiform	
	Sand in clay—with—flints *F Debris cone	Wanlip Sand and Gravel Warp War	Landform	Fall of glacial drainage channel Glacial drainage channel, front	Anhydrite	Made ground	Axial plane traces of closely spaced major antiform/synform pair Axial plane trace of major reclined or vertical fold	
	Head or hillwash & thead 1 & thead 1	Westland Green Gravel ₩₫¹᠐⊤ Westmill Lower Gravel ₩₺⊤		Glacial striae → Glacial striae ← Glacial striae direction of ice flow			Axial plane trace of major recumbant fold	
	Head 2 $^{\circ}$ 2 Blanket head/regolith $^{\circ}$ 6	Whatton Sand and Gravel Winter Hill Gravel WH WH WH WH WH WH WH WH WH W		Kettle hollow Roche moutonnée	Arenaceous seatearth	Marble	Axial plane trace of major syncline	
	Head, Burton Lazars 🔭 Head, Colluvium 🔥	Wolvercote Member [™] Woodford Gravel [™] ™		Roche moutonnée with striae ← D− Rockhead or bedrock ⊖			Axial plane trace of major synform Axis of large–scale glacial flute	
	Gravelly head Gravelly head Head, Little Dalby	Lacustrine deposits Lacustrine deposits 1	Rock symbols	Single sided glacial drainage channel Acid tuff Z ^R	Blown sand	Marine	Axis of large–scale glacial gouge	-0000-
	Head, Pen Hill the Sandy head states the San	Lacustrine deposits 2 & Lacustrine deposits 3 & Lacustrine deposits 4 & Lacustrine deposits 5 & Lacustrine deposits 6 & Lacustrine deposits 6 & Lacustrine deposits 6 & Lacustrine deposits 6 & Lacustrine deposits 7 & Lacustrine deposits 7 & Lacustrine deposits 8 & Lacustrine deposits 9 & Lacust		Acid tuffite V^R Aplite \propto			Backfeature marking former coastline, arrowheads denote uphill side	c
	Valley bottom head © VB Pebbly clay and sand © Scree/talus ©	Lacustrine delta deposits \sim Lacustrine shoreface and beach deposits \sim Lacustrine shoreface and beach deposits \sim S		Basic tuff Z^{B} Basic tuffite V^{B} Cataclastic (Metamorphic) β	Boulder clay	Massive	Backfeature marking former lake margin, arrowheads denote uphill side Backfeature of terrace margin, arrowheads denote uphill side	
Aeolian deposits	Inactive scree/talus © Blown sand △	Marine deposits Bank deposits Bank deposits, sand See B	_	Cataclastic (Metamorphic) β Cataclastic rocks β Foliated Ø		limestone	Base of lava flow	
Aconan deposits	Blown sand, 1	Barroway Drove Beds Chenier deposits Sund Chenier deposits		Grandiorite X \propto Microdiorite P^{D}			Buried channel or valley margin	
	Brickearth, Dartford Silt Brickearth, Enfield Silt	Netley Heath Deposits N Coastal barrier deposits •••••		$Microgranite$ F^G $Mylonitic (metamorphic) \mu$	Breccia D.	Metasediment	Buried cliffline, crossmarks on beach side Cliffline, crossmarks on beach side	
	Brickearth, Ilford Silt 🖧 Brickearth, Langley Silt	Coastal barrier, sand and gravel Coastal zone deposits, undifferentiated		Mylonitic rocks μ Pegmatite π	• • • • • • •		Cementstone	——cm——cm——cm——
	Brickearth, Wolston Clay — Loess Ф	Intertidal deposits, undifferentiated		Pseudotachylitic K Rhyolite R ^R	Calcareous tufa	Migmatisation	Coal, inferred Coal, observed	
Organic deposits	Peat	Marine beach deposits Marine deposits, undifferentiated ✓M	·		-	$\begin{array}{c} \sim \sim \sim \sim \sim \\ \\ \sim \sim \sim \sim \sim \\ \\ \sim \sim \sim \sim \sim $		
	Blanket peat Fen peat F	Mud deposits Made	Bedding	Cross-bedding of foresets ← Cross-bedding of foresets ← Cross-bedding of foresets ← Cross-bedding of foresets	Cataclasticrock	group with calc–schist	Coal seam contour	
	Hill peat Nordelph peat Peat flow Pear flow Nordelph pear Pear flow Nordelph pear Nordelph pear	Saltmarsh deposits Sand and silt deposits Sand deposits Sand deposits		Direction of younging Dune−bedding General dip	- <u></u>	limestone	Coal seam, washout Crestline of elongate mound	
	Submerged forest Submite			General dip, underground Gently inclined strata	Chalk —	Mudstone	Crestline of esker (blue, orange or magenta)	+++++++++++++++++++++++++++++++++++++++
	Diatomite, fluvial Shell marl	Shoreface deposits Shoreface deposits, sand		Gently undulating strata Highly inclined strata			Crestline of linear feature	
Chemical/organic deposits	Bog iron ore Calcareous tufa	Shoreface deposits, sand and gravel Silt deposits		Horizontal overturned strata +	Claystone = = = = = = = = = = = = = = = = = = =	Ooidal	Drumlin or dune line at base of mound Fault brecciation zone, inferred	
Fluvial deposits	Tufa → Alluvial fan deposits → △	Storm beach deposits Storm beach deposits, 1		Inclined strata 1 ☐ Inclined strata 2 ←	Claystone = = = = = = = = = = = = = = = = = = =	limestone	Fault brecciation zone, observed	
	Alluvial fan deposits, gravel	Storm beach deposits, gravel Supratidal deposits undifferentiated Supratidal deposits undifferentiated		Inclined strata, overturned —— Inclined strata, uncertain ——			Fault, thrust conjectural	
	Alluvium, 1 Alluvium, clay			Inclined strata, underground ← Strike of strata ←	Conglomerate	Pebbles	Fault, thrust observed Incrop of fault at unconformity (sub–Triassic)	
River terrace	Alluvium, sand and gravel	Tidal, river or creek deposits		Undulating bed, inclined Undulating vertical strata		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Fault, normal inferred	
	Arun Terrace Deposits, 2 nd Arun Terrace Deposits, 3 rd Arun Terrace Deposits, 4th	Tidal, river or creek deposits, mud MOSTR Tidal, river or creek deposits, mud and gravel Washover deposits	Foliation or layerin	Vertical strata — g Horizontal foliation # Inclined foliation —	Coursed rubble	Pegmatite $\begin{array}{cccccccccccccccccccccccccccccccccccc$	Fault, normal observed	
	Arun Terrace Deposits, 4 th Arun Terrace Deposits, 5 th Arun Terrace Deposits, 6 th Arun Terrace Deposits, 6 th		-	Strike of foliation —— Undulating foliation		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Fault, reverse Fault shearing zone, inferred	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	Arun Terrace Deposits, 7 th AZT Balderton Sand and Gravel		 	Vertical foliation	Crushed rock	Pelite	Fault shearing zone, observed	~ ~ ~ ~ ~ ~
	Bank Farm Terrace Bassingfield Sand and Gravel			Direction of cleavage Horizontal cleavage				
	Beaconsfield Gravel ≅ _₹	Post glacial → FG Raised marine delta deposits → △		Inclined cleavage -	Disturbed ground	Pisoidal limestone	Fault, thrust or slide, inferred Fossil horizon, algal band	
	Beenham Stocks Gravel Beeston Sand and Gravel BS	Raised marine deposits \sim Raised marine deposits, clay $\circ \sim$		Sheared rock ~ Strike of cleavage ~			Fossil horizon, brachiopod band	— в —— в —— в ——
	Belton Sand and Gravel Birstall Sand and Gravel	Raised marine deposits, high & Raised marine deposits, highest &		Undulating cleavage, inclined ✓ Vertical cleavage ◆			Fossil horizon, coral band Fossil horizon, eustheria band	
	Black Park Gravel Blackwater Terrace Deposits, 3 rd	Raised marine deposits, low $\stackrel{\smile}{\sim}$ Raised marine deposits, March Gravels $\stackrel{\bowtie}{\sim}$		Vertical cleavage in sandstone → Horizontal joint +	Dolomite	Psammite	Fossil horizon, lingula band	
	Blackwater Terrace Deposits, 4 th ♣ T Boyn Hill Gravel ♣ T		T:	Inclined joint □ Vertical joint □			Fossil horizon, planolites band	— p — p — p —
	Bramley Wey Terrace Deposits, 2 nd Bucklebury Gravel Brooksby Sand and Gravel Brooksby Sand and Gravel	Raised marine deposits, sand and gravel $^{\text{SG}}\sim$ Raised marine deposits, silt and clay $^{\text{C}}$ Raised marine deposits, Terrington Beds $^{\text{TB}}$	Linear structures	Horizontal lineation ←→ Plunging lineation ← Vertical lineation ◆	Foundered strata	Quartzite	Geological boundary, artificial Geological boundary, drift	
	Bunny Sand and Gravel Bytham Sand and Gravel Bytham Sand and Gravel	Raised marine deposits, Tottenhill Gravels Raised marine, tidal, river or creek deposits	Igneous rocks	Horizontal flow jointing Horizontal primary crystal alignment	- v v v v v v v v v v v v v v v v v v v		Geological boundary, mass movement	
	Caesar's Camp Gravel [©] Cheltenham Sand and Gravel [©] Let Cheltenham Sand and Gravel [©]	Raised tidal flat deposits of Flandrian age FTR Shore beach deposits of Flandrian age FS		Horizontal primary planar fabric in igneous rocks Horizontal relict, planar fabric in plutonic rocks	Gneiss NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	Random rubble	Geological boundary, solid inferred	
	Combe Member ♣⊤ Corbets Tey Gravel ✍⊤	Subtidal ∽su Interglacial lacustrine deposits 尽	_	Horizontal welding foliation % Inclined flow jointing •••	υ ν ν ν ν ν - + + + + + + + +		Geological boundary, solid intrusive Geological boundary, solid intrusive observed	
	Daylesford Member, 1 st ♣ Dollis Hill Gravel ♣ Dollis Hill Gravel	Interglacial deposits, undifferentiated ☐ Interglacial fluvial deposits ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		Inclined primary crystal alignment Inclined primary planar fabric •••	Granite + + + + + + + + + + + + + + + + + + +	Reclaimed ground	Geological boundary, solid observed	
	Dry valley deposits ~ □v Eagle Moor Sand and Gravel . □□ The interior of the local section is a section of the local section.	Interglacial marine shore beach deposits 😅s	<u> </u>	Inclined primary planar fabric, overturned Inclined relict, planar fabric in plutonic rocks Inclined primary planar fabric, overturned Inclined relict, planar fabric in plutonic rocks	+ + + + + + + + + + + + + + + + + + +		Glacial meltwater or overflow channel, centre line Glacial meltwater channel margins	
	Eggington Common Sand and Gravel Etwall Sand and Gravel Fen Sand and Gravel Fen Sand and Gravel	Glacial deposits Diamicton Glacial deposits Crag with tail ✓		Inclined welding foliation Strike of primary planar fabric Strike of welding foliation	Granite / S / S / S / S / S / S / S / S / S /	Reworked gneisses		.н н н
	Finsbury Gravel Fluvial Sand and Gravel	Hummocky glacial and morainic deposits 92		Vertical flow jointing ◆□◆ Vertical primary crystal alignment △			Igneous cutting margin, crossmarks on side of younger rock, inferred	
	Freeland Member			Vertical primary planar fabric Vertical relict, planar fabric in plutonic rocks •++•	Graphitic	Rubbly Imestone;	Igneous cutting margin, observed Igneous plutons	
	Gerrards Cross Gravel ﷺ Godalming Wey Deposits, 1 st ∰ _T	Burtle Beds ⇔ Corton Formation ⇔ Co	Major folds	Vertical welding foliation ↔ Anticline axial plane ◊	schist	poorly bedded	Incrop of coal	
	Godalming Wey Deposits, 1a Godalming Wey Deposits, 1b Godalming Wey Deposits, 1b	Lochton Sand and Gravel Formation (East Grampian Drift Group)		Synclinal axial plane X Synform axial plane X			Incrop of marine band	—м—•—м—•
	Godalming Wey Deposits, 2 nd [™] Godalming Wey Deposits, 3 rd [™] Gwa _T	Eagle Moor Sand and Gravel Holderness Formation Holderness Form	Minor folds	Axis of minor anticline ← Axis of minor fold ←	Gravel \$256 \$256 \$256 \$256 \$256 \$256 \$256 \$256	Sand	Ironstone, inferred Ironstone, observed	
	Hackney Gravel ♣ Hanborough Member ♣ Hanborough Member	Ice−contact ⇔ □ Irish Sea Ice Sheet (sheet deposits) ⇔ sτ		Axis of minor syncline Horizontal axial plane of minor fold **-			Kettle hole	
	Holme Pierrepont Sand and Gravel Kempton Park Gravel Knighton Sand and Gravel κητ	Irish Sea Ice Sheet, undifferentiated Lowestoft Formation Drumlithie Sand and Gravel (Mearns Drift Group) □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□		Horizontal axis of minor anticline → Horizontal axis of minor fold ←→ Horizontal axis of minor fold, phase 1 ←→	Greywacke	Sandstone	Limit of diorite/grandiorite	
	Leaves Green Gravel Lean Sand and Gravel Lean Sand and Gravel	Moreton Member ♦ Overstrand Formation ♦		Horizontal axis of minor monocline Horizontal axis of minor monocline	· · · · · · · · · · · · · · · · · · ·		Limit of glacial advance, Gosforth oscillation limit Limit of glacial advance, Scottish readvance limit	S S S S S
	Little Hereford River Terrace #\tau	Oadby Member $\stackrel{\text{Od}}{\Leftrightarrow}$ Pre–Devensian $\stackrel{\text{P}}{\Leftrightarrow}$		Inclined axial plane of minor fold Locality with refolded minor folds	Gypsum ************************************	Sandy I I I I I I I I I I I I I I I I I I I	Limit of granite/pegmatite vein complex, \times π within area of veining	.xπxπ.
	Northmoor Member ♣ Northmoor Member Ockbrook Sand and Gravel	Sheet deposits, 1 st $\overset{1}{\bigodot}$ st		Minor fold, low angle of plunge ← Overturned anticline ♥				xx
		Sheet deposits, 2^{nd} $\overset{?}{\bigotimes}$ st					Limit of migmatisation, ^ towards migmatites	$\Lambda_{i}\Lambda_{i}\Lambda_{i}\Lambda_{i}\Lambda_{i}\Lambda_{i}\Lambda_{i}\Lambda_{i}$
	Rissington Member #5_T River Avon Deposits, 1st #1_T	Sheet deposits, 3^{rd} $\stackrel{3}{\bigodot}$ st Sand and gravel sg \bigcirc		Overturned syncline Plunge axis of minor fold ←	Igneous	Shale	Limit of transgressive pegmatite veins, π within areas of veins	
	River Avon Deposits, 1 st River Avon Deposits, 2 nd River Severn Deposits, 1 st	Sheet deposits, 3^{rd} $\stackrel{3}{\diamondsuit}$ st Sand and gravel Sheet deposits $\stackrel{SG}{\diamondsuit}$ Wigston Sand and Gravel $\stackrel{W}{\diamondsuit}$		Plunge axis of minor fold ← Strike axial plane minor fold ← Vertical axial plane of minor fold ⊢			Limit of transgressive pegmatite veins, π within areas of veins	π. π. π. π. π. π.
	River Avon Deposits, 1st Alta River Avon Deposits, 2nd Alba River Severn Deposits, 1st Alta River Severn Deposits, 2nd Alta River Severn Deposits, 2nd Alta River Severn Deposits, 3rd Alta Ri	Sheet deposits, 3^{rd} $\stackrel{3}{\diamondsuit}$ st Sand and gravel Sand and gravel Sheet deposits \diamondsuit st Wigston Sand and Gravel $\stackrel{\mathbb{W}}{\diamondsuit}$ Woolford Heath Member $\stackrel{\mathbb{W}}{\diamondsuit}$ Wolston Sand and Gravel $\stackrel{\mathbb{W}}{\diamondsuit}$	Vergence	Plunge axis of minor fold ← Strike axial plane minor fold ← Vertical axial plane of minor fold ← Vertical axis of minor fold ♦ Axis of minor fold showing direction of vergence ←	Igneous	Ciletton	Limit of transgressive pegmatite veins, π within areas of veins	
	River Avon Deposits, 1st Alt River Avon Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 3rd River Severn Deposits, 3rd River terrace deposits, 1st Alt River terrace deposits, 1a River terrace deposits, 1a	Sheet deposits, 3^{rd} $\stackrel{3}{\odot}$ sr Sand and gravel SG \hookrightarrow SG Sheet deposits SG \hookrightarrow SG Wigston Sand and Gravel $\stackrel{W}{\odot}$ Woolford Heath Member $\stackrel{W}{\odot}$ Wolston Sand and Gravel $\stackrel{W}{\odot}$ Glaciolacustrine G Glaciolacustrine deposits G	Vergence	Plunge axis of minor fold ← Strike axial plane minor fold ← Vertical axial plane of minor fold ← Vertical axis of minor fold ♦ Axis of minor fold showing direction of vergence ← Dextral vergence of minor fold ↑ Direction of vergence of minor fold ↑	Igneous		Limit of transgressive pegmatite veins, π within areas of veins Lineament, probably fracture related Line of split coal seam, ornament on split side	π.π.π.π.π.π.π.π.
	River Avon Deposits, 1st Alt River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 3nd River Severn Deposits, 3nd River terrace deposits, 1st Later River terrace deposits, 1a River terrace deposits, 1a River terrace deposits, 1b Later River terrace deposits, 1c Later River	Sheet deposits, 3^{rd} $\stackrel{3}{\odot}$ sīSand and gravelSG \hookrightarrow Sheet deposits \circlearrowleft sīWigston Sand and Gravel $\stackrel{\mathbb{W}}{\odot}$ Woolford Heath Member $\stackrel{\mathbb{W}}{\odot}$ Wolston Sand and Gravel $\stackrel{\mathbb{W}}{\odot}$ GlaciolacustrineGlaciolacustrine deposits $- \stackrel{\mathbb{W}}{\odot}$ Glaciolacustrine deposits 2 $- \stackrel{\mathbb{W}}{\odot}$ Clay $- \stackrel{\mathbb{W}}{\odot}$		Plunge axis of minor fold ← Strike axial plane minor fold ← Vertical axial plane of minor fold ← Vertical axis of minor fold ◇ Axis of minor fold showing direction of vergence ← Dextral vergence of minor fold ↑ Direction of vergence of minor fold ↑ Neutral vergence of minor fold 3 Sinistral vergence of minor fold ⋄	Igneous Third ground	Siltstone	Limit of transgressive pegmatite veins, π within areas of veins Lineament, probably fracture related Line of split coal seam, ornament on split side Magnetic layer or boundary Man made deposit boundary	mtmt
	River Avon Deposits, 1st Alt River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 3rd River Severn Deposits, 3rd River terrace deposits, 1st Alt River terrace deposits, 1a River terrace deposits, 1a River terrace deposits, 1b	Sheet deposits, 3^{rd} $\stackrel{3}{\odot}$ srSand and gravel SG Sheet deposits OS srWigston Sand and Gravel $\stackrel{W}{\odot}$ Woolford Heath Member $\stackrel{W}{\odot}$ Wolston Sand and Gravel $\stackrel{W}{\odot}$ GlaciolacustrineGlaciolacustrine deposits G Glaciolacustrine deposits 1 G Glaciolacustrine deposits 2 G		Plunge axis of minor fold ← Strike axial plane minor fold ← Vertical axial plane of minor fold ← Vertical axis of minor fold ♦ Axis of minor fold showing direction of vergence ← Dextral vergence of minor fold ↑ Direction of vergence of minor fold ↑ Neutral vergence of minor fold 3 Sinistral vergence of minor fold ⋄	Igneous	Siltstone	Limit of transgressive pegmatite veins, π within areas of veins Lineament, probably fracture related Line of split coal seam, ornament on split side Magnetic layer or boundary Man made deposit boundary Marine band Marked break in slope, arrowheads denote uphill side	π.π.π.π.π.π.π.π.π. • • • • • • • • • • • • • • • • • •
	River Avon Deposits, 1st Alta River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 2nd River Severn Deposits, 3rd River Severn Deposits, 3rd River terrace deposits, 1st Alta River terrace deposits, 1a River terrace deposits, 1a River terrace deposits, 1b River terrace deposits, 1c River terrace deposits, 1c River terrace deposits, 1st - 2nd River terrace deposits, 2nd	Sheet deposits, 3rd ⇒ sr Sand and gravel sse ↔ Sheet deposits ⇔ sr Wigston Sand and Gravel ⇔ ↔ Woolford Heath Member ⇔ ↔ Wolston Sand and Gravel ⇔ ↔ Glaciolacustrine deposits ts t		Plunge axis of minor fold Strike axial plane minor fold Vertical axial plane of minor fold Vertical axis of minor fold Axis of minor fold showing direction of vergence Dextral vergence of minor fold Direction of vergence of minor fold Neutral vergence of minor fold Sinistral vergence of minor fold Fault movement Fault terminator	Igneous Third Infilled ground Landscaped	Siltstone ————————————————————————————————————	Limit of transgressive pegmatite veins, π within areas of veins Lineament, probably fracture related Line of split coal seam, ornament on split side Magnetic layer or boundary Man made deposit boundary Marine band Marked break in slope, arrowheads denote uphill side	mtmtmt
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