

British Geological Survey

Gateway to the Earth

Barcodes, conveyor belts and laser scanners: putting the contents of the Geological Museum (South Kensington, 1935 - 1985) on the web

Mike Howe¹, Bob McIntosh, Simon Harris & Graham Tulloch British Geological Survey, ¹Head, National Geological Repository, BGS



Geological Museum (IGS) Computing Department, 1970s

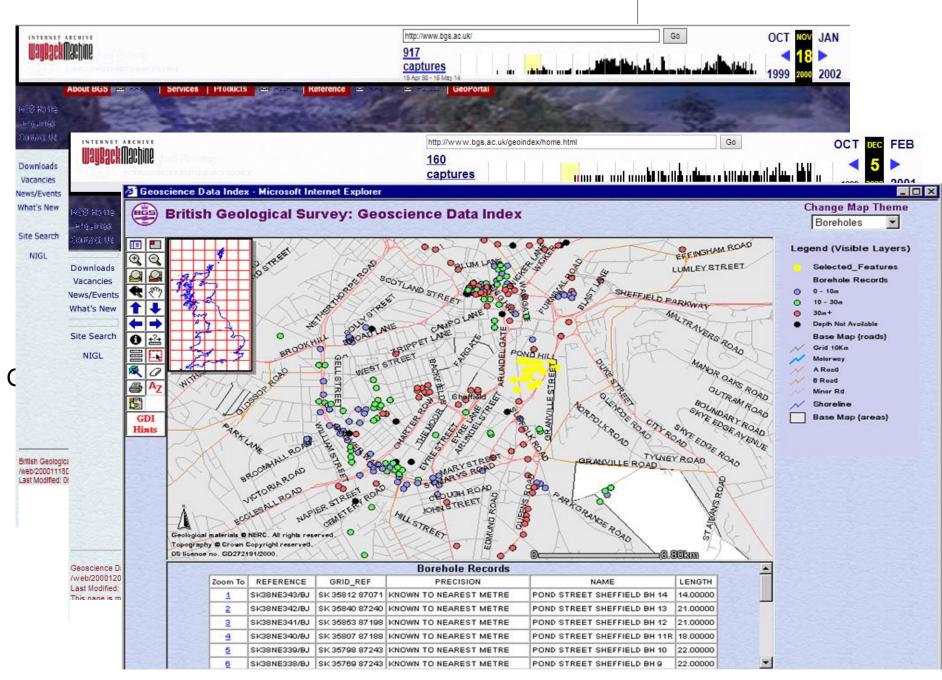




BGS website Nov 2000



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BGS web-based GIS "Geoscience Data Index" Boreholes 2000

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National Archive of Geological Photographs

The British Geological Survey houses the National Archive of Geological Photographs (NAGP), comprising in excess of 100,000 fully-described images dedicated to the theme of earth sciences. This image database contains c. 6,400 images digitized almost entirely with grant-in-aid from two sources:

<u>SCRAN</u> - The Scottish Cultural Access Network, responsible for the funding for two projects: Quarrying, mining and other extractive industries of Scotland, and The Landscapes of Scotland.

JIDI - The JISC Image Digitization Initiative, responsible for funding the image capture of 3,000 images under the theme: Classic areas of British geology. The project titles indicate the scope of the selection in this image database.

The low resolution thumbnail images accompanying each record are derived from very high resolution images, in turn derived from high quality, large format and 35 mm. negatives and transparencies. A wide range of photographic and digital products is available for purchase from BGS. Contact the <u>Photographic Unit for details</u>.

Read an illustrated history of the collection.

Search the Photographic Archive





National Archive of Geological Photographs - Home /web/20010221102731/http://www.bgs.ac.uk/photoarchive/home.html Last Modified: 05/23/2014 08:28:17 This page is maintained by the BGS Webmaster (www-bgs@ua.nkw.ac.uk)

BGS online photograph database – developed entirely within BGS –





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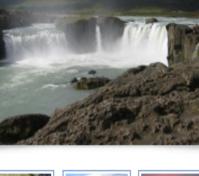
Expand view

National Archive of Geological Photographs

Welcome to GeoScenic, where you can view and download images from the vast collections of geological photographs in BGS.

Download of 1000 x 1000 pixel images is free for all non-commercial use - all we ask in return is for you to acknowledge BGS when using our images. Click our Terms and Conditions link below for information on acknowledgement text, and to find out about using our images commercially.

All images in this site can be viewed without registering. However, by registering, you can save images to your lightbox for future sessions and download images at your leisure.



You are not currently logged in. Login or register here.

		Search	Advanced search
Browse Categories: • Best of BGS Images (2126)	Special collections (21762)	Geoscience	e subjects (32017)

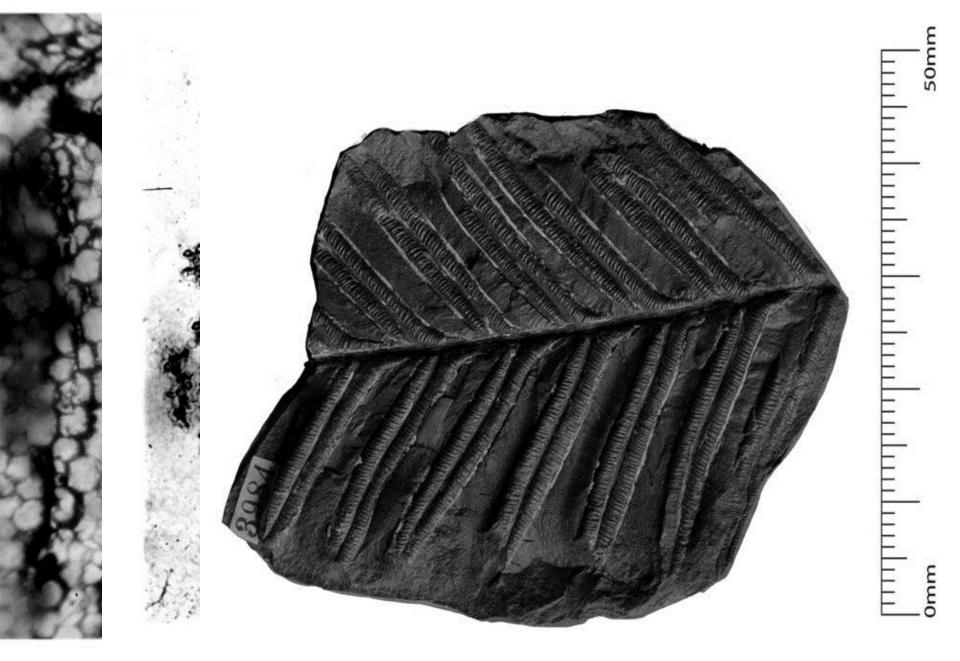


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Authors in all Elsevier journals can now include GeoScenic image identifiers from BGS (<u>www.bgs.ac.uk</u>) into their article on ScienceDirect.

For more information on BGS GeoScenic identifiers and database linking with Elsevier please see <u>http://www.elsevier.com/databaselinking</u>

BGS now uses AssetBank[™] to manage images inside and outside the organisation as "GeoScenic". Currently ca. 80,000 images available externally



Scans of original glass plate negatives of the Kidston palaeobotanical collection (3618 images)



Images of the National Building Stone Collection (4301 images)

By 2006, all the main geoscience collections databases were available for online text searching.....





Our data

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OpenGeoscience

Data collections

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BGS rock collections - Search form

To search the database, please enter a search term, in one or more fields and press 'Search'. If you enter 'S12%', the search will return anything that starts 'S12', while 'S1234' will only return that record.

Search spatially

Use GeoIndex on the Collections theme to view the collection.

Text searches

Registration number	e.g. E1234 ar MR1245
Rock or mineral name	
Locality	
Collector / donor	e.g. Darwin

Location searches

	Search around a UK 50k map ref				
		map ref	SJ2345	e.g. SJ2345	
		distance	10	km (1 to 99)	1
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	Country	Acension Island [143	3 samples]	×	/
Clear			Search		
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See also

- Country List
- Map Sheet List
- Search
- Research





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Our data	PalaeoSaurus online collections database			
0101816	To search the PalaeoSaurus database, please enter a sea	arch term in one or more fields and click on "Submit". You may use % as a wildcard symbol.		
OpenGeoscience	Genus or subgenus:	Genus or subgenus:		
Map viewers	Species :			
Apps 🕨	Chronostratigraphy :	V		
Data collections 🔹 🔻	Locality :			
Index	Collector / donor :			
Borehole materials	Publication (author) :			
Geomagnetic data GeoIndex	Type of specimen :			
Geomex Groundwater level information	Specimen registration No :			
Lexicon of rock units		Reset Defaults Submit Query		
Linked data	Reset Delauits Submit Query			
PalaeoSaurus	Notes about BGS palaeontological registration numbers			
Rock classification scheme	The palaeontological collections of the BGS are being entered onto the PalaeoSaurus database, which currently totals over 50 000 samples. Most of the Cambrian – Lower Carboniferous reference specimens (which include type, figured and cited material) have been entered.			
Rock collections	The information has been accumulated over more than a century and from many sources, and it contains inconsistencies and imperfections. Many of the identifications were made several decades ago and are in need of updating. Feedback on these is welcomed and should be directed to Mike			
Taxonomy Online	the identifications were made several decades ago and are in need of updating. Feedback on these is welcomed and should be directed to Mike Howe.			
Vocabularies				
Data downloads	Enquiries about the fossil collections Mr Paul Shepherd			

Telephone: 0115 936 3102 Fax: 0115 936 3437

"PalaeoSaurus" – online palaeontological database

See also

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<u>.</u>

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Collections home

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GeoScenic photo archive

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Materials collections

OpenGeoscience

Research

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Rock classification scheme

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Onshore borehole material database

The BGS British onshore borehole collections contain approximately 15 000 boreholes, most of which are stored at Keyworth. Borehole material is held in a number of different forms, please see the borehole material type key for further details.

Search the database of borehole materials

Bore name		all or first part	
50k map sheet	(any) Aberaeron (177) Aberdeen (77) Aberdeen (Sup) (77) Abergavenny (232) Aberystwyth (163) Abingdon (253) Achentoul (109) Airdrie (31)	sort list by sheet number sort list by sheet name	Share this page Tweet f Share News and apps
10k map sheet		enter all e.g. TQ23SE or first part	
Depth	● Greater than ○ Smaller than	metres	😲 Tell us what you thin
	search clear	Help using the search	
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Database status

The database is complete, except for very recent receipts.

The information has been accumulated over many years and contains some inconsistencies and imperfections. Feedback on these is welcomed and should be directed to Dr M P A Howe.

Confidential boreholes

Some boreholes, especially recent hydrocarbon wells, are confidential and depths and sample details may not be given. If you require further information about these boreholes, contact kwcorestore@bgs.ac.uk for details of the owner. In a few cases, the precise map references are also confidential.

Online "Onshore borehole material database"

Hosted sites

Comment on the data

Search

Three major recent high resolution digitistion projects.....

1. 125,000 boxes of UKCS hydrocarbon well core

2. 215,000 petrological thin sections images (including plane & cross polars)

3. 17,500 type UK macro fossils, including stereo-anaglyphs and 2,000 3d digital models (>100,000 images in total)



BGS UKCS (Offshore) Hydrocarbon Cores 125,000 images - e.g. North Sea Oil Wells

Phase One P45+ camera: an ultra high resolution camera (7216 x 5412 pixels)

Archived RAW and TIFF. Generated JPEG2000 and JPG thumbnails

Box identified by barcode. Metadata written to screen

Image files automatically renumbered with box number

Average 1.25 minutes per box, including 100% audit/condition survey

Financed from sale of core store

















BGS Thin Section Macrophotography

100,000 Scottish & 7,500 English & Welsh Thin Sections (Plane and Cross Polars) now online as part of Britrocks.

Served as JPEG2000s

Photography and some data entry by volunteers



🥘 GeoIndex | British Geological Survey (BGS) - Internet Explorer

http://mapapps2.bgs.ac.uk/geoindex/home.html



BGS online GIS "GeoIndex". Black triangles mark petrological thin sections with triangles have no images yet.







Jisc funded GB3D Fossil Types Online

17,500 types, each with HR images, anaglyphs & labels + 2000 3d digital models

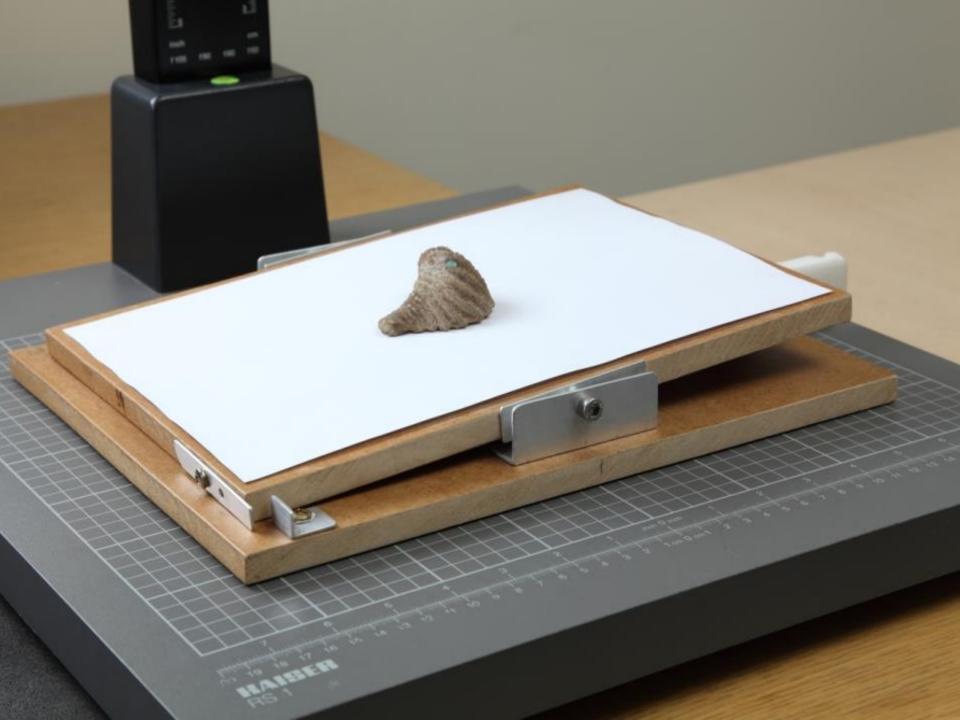
Images served as JPEG2000. Models available as .PLY and .OBJ

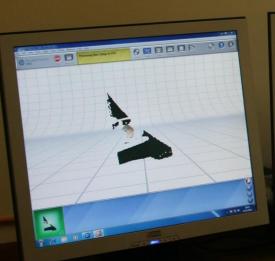
Partners: British Geological Survey; National Museum Wales; The Sedgwick Museum, Cambridge; The University Museum of Natural History, Oxford; and the Geological Curators' Group, representing a number of national, regional and university museums.

www.3d-fossils.ac.uk





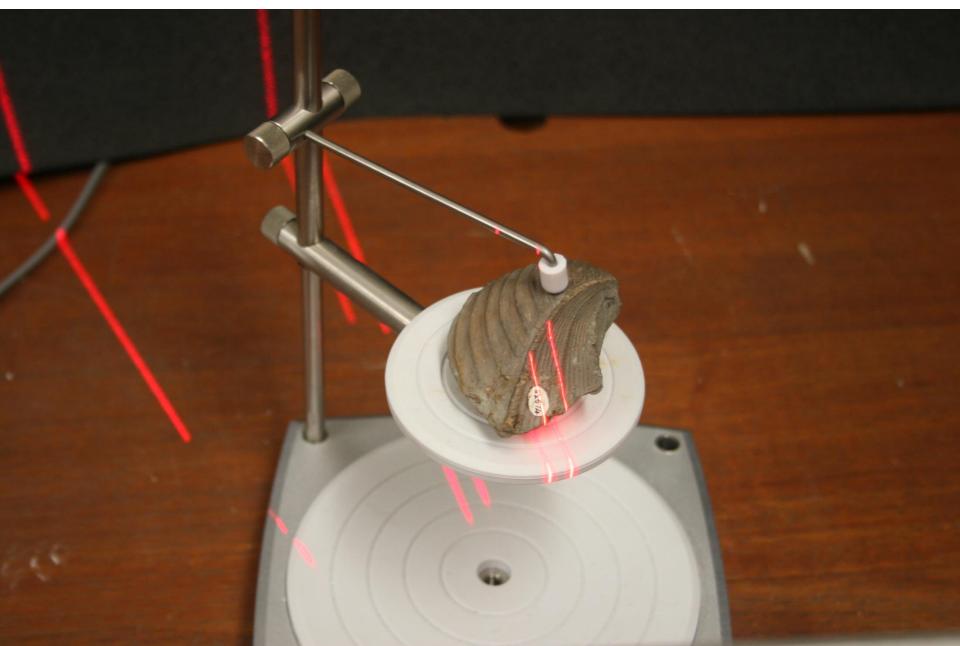




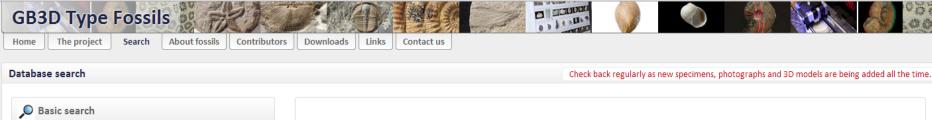












Free text	
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	Search
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Taxonomic Group	Not all groups are represented in the database
Genus	
Species	
	Include old identifications in search
Type Status	{any} •
Geological Age	{any} •
Rock Unit	
Locality	
Country	{any} •
Institution	Amgueddfa Cymru - National Muser 🔻
Registration No.	{any} Amgueddfa Cymru - National Museum of Wales
2D Photos	Bath Royal Literary and Scientific Institution Booth Museum of Natural History
Stereo Photos	British Geological Survey Buxton Museum and Art Gallery
3D Scans	Dinosaur Isle Dorset County Museum
	Great North Museum: Hancock
	Grosvenor Museum, Chester Lyme Regis Museum
	Museums Sheffield
	National Museums of Scotland
	Nottingham Natural History Museum Oxford University Museum of Natural History
	Royal Albert Memorial Museum, Exeter
	Sedgwick Museum of Earth Sciences, University of Cambridge
	The Manchester Museum The Warwickshire Museum
	University Museum of Zoology, Cambridge

Enter search criteria using the Basic or Advanced search at left



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GB3D Type Fossils

Search

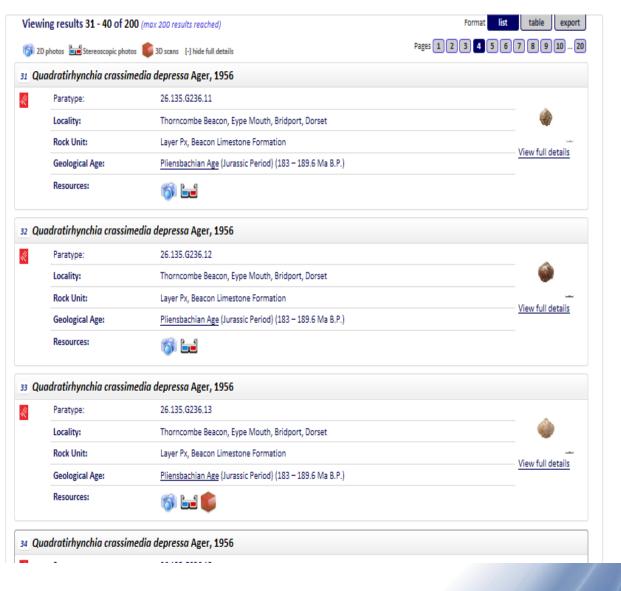
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Database search

Check back regularly as new specimens, photographs and 3D models are being added all the time.

Basic search		
Free text		
	Free text	
		Search
🐄 Advanced sea	irch	
Taxonomic Group	Not all groups are represented in the database	
Genus		
Species		
	Include old identifications in search 🗌	
Type Status	{any}	~
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Rock Unit		
Locality		
Country	{any}	~
Institution	Amgueddfa Cymru - National Mu	seum of 🔽
Registration No.		
2D Photos	High definition 2D photos available?	
Stereo Photos	Stereo photos available?	
3D Scans	□ 3D scans available?	
		Search



211000



GB3D Type Fossils

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Fossil specimen : NMW 26.135.G236.13 - Paratype

Taxonomy			
Taxonomic Group	Kingdom Animalia		
	Phylum Brachiopoda		
	Class Rhynchonellata		
	Order Rhynchonellida		
Fossil Name	Quadratirhynchia crassimedia depressa Ager, 1956		
Type Status	Paratype		
Name History	Quadratirhynchia crassimedia depressa Ager, 1956 – See Ager (1956): Paratype		
	Quadratirhynchia sp. – See Jackson (1926)		
Provenance			
Registration No.	26.135.G236.13		
Collector	Name not available		
Donor or Associated Person	Jackson, J.F.		
Held By	K Amgueddfa Cymru - National Museum of Wales		
Comments			
Location			
Country	England		
Locality	Thorncombe Beacon, Eype Mouth, Bridport, Dorset		
Grid Reference	Available from host institution		
Stratigraphy	Stratigraphy		
Rock Unit	Layer Px, Beacon Limestone Formation		
Biozone	spinatum		
Geological Age	Pliensbachian Age (Jurassic Period) (183 – 189.6 Ma B.P.)		
References			

High resolution	n photograph	15			
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	<u> </u>	1-18-1			
Steroscopic ph	otographs				
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3D scan					
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- Chrome, and Safari support this. Note that Internet Explorer 8 and earlier versions do not support this functionalit
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Download zipped .obj file [1397 Kb]

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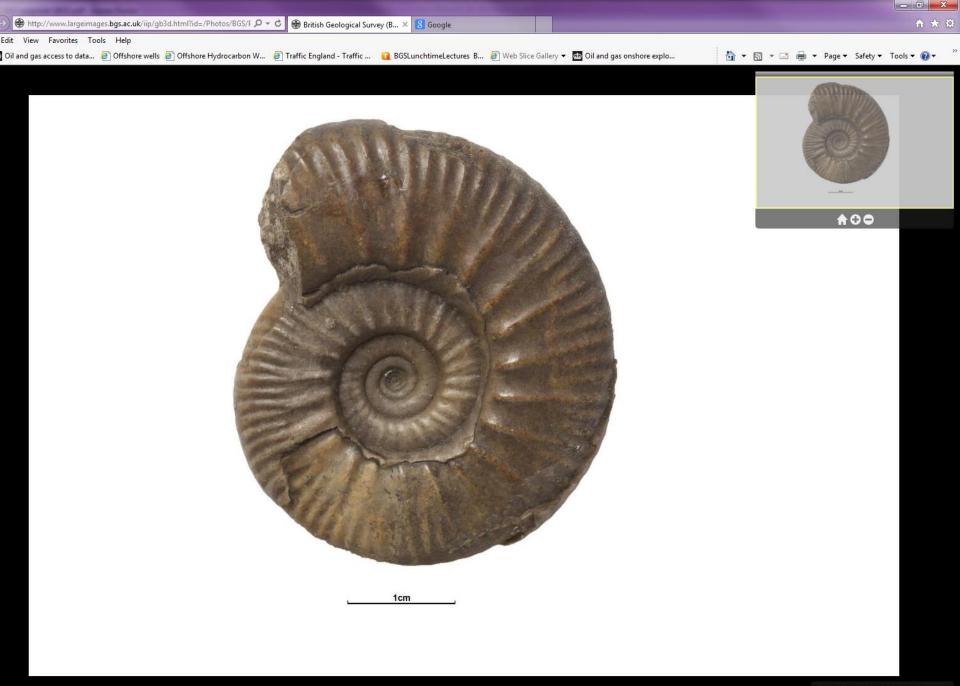


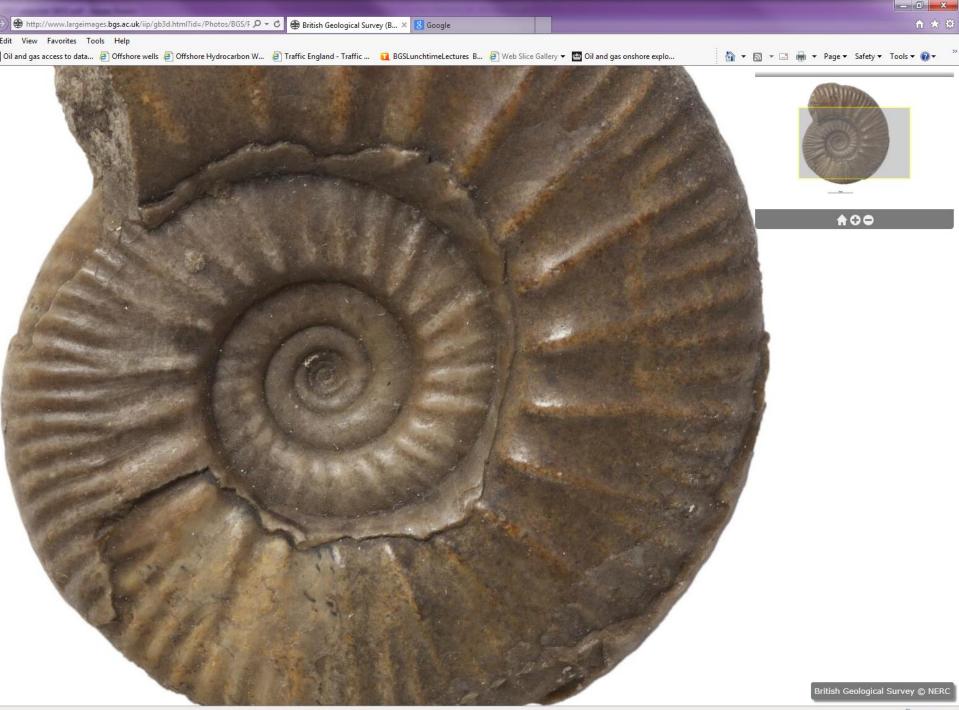
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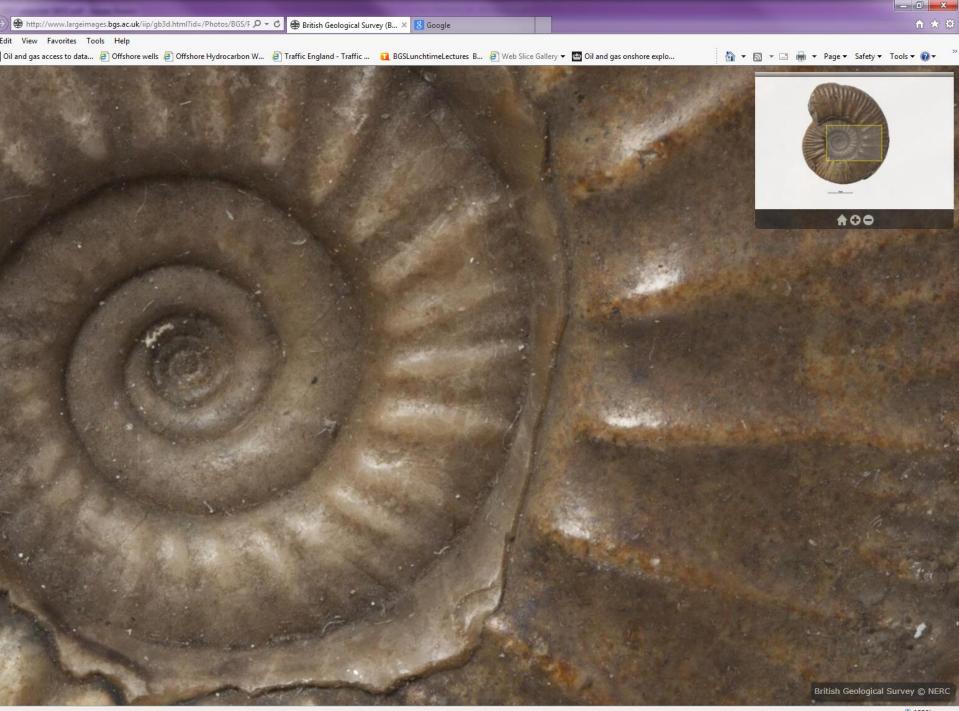
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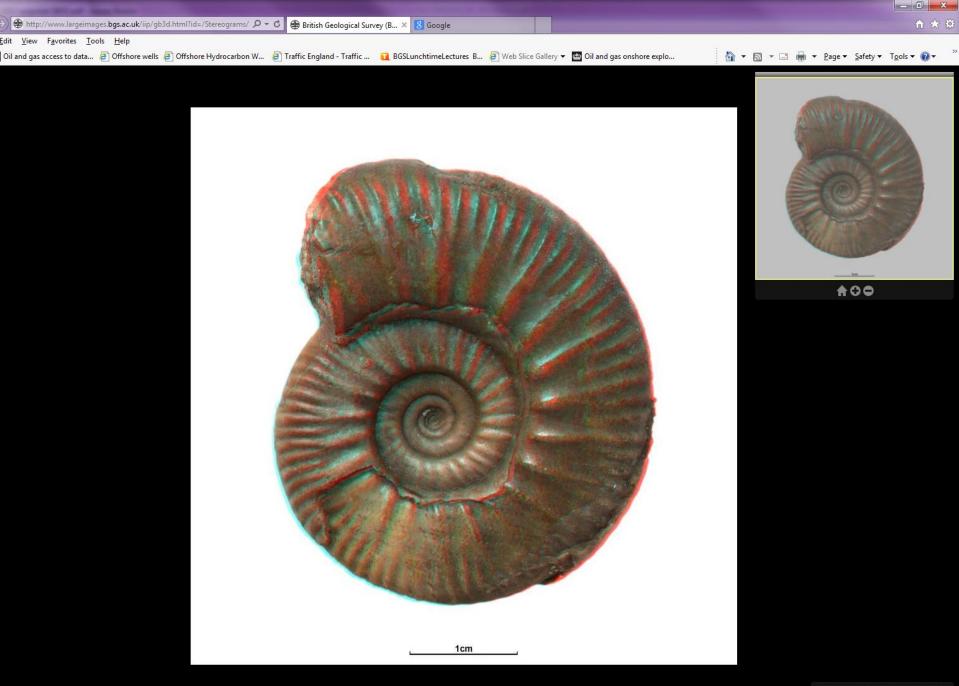


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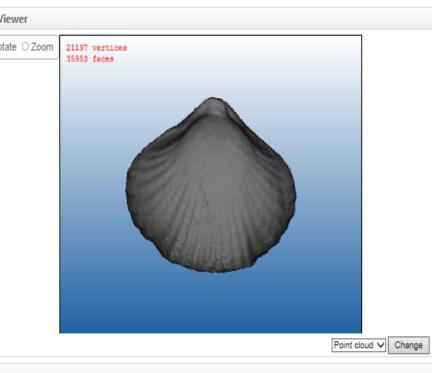


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GB3D Type Fossils

Fossil specimen : NMW 26.135.G236.13 – Paratype

Taxonomy		Scan Vie			
Taxonomic Group	Kingdom Animalia Phylum Brachiopoda Class Rhynchonellata Order Rhynchonellida	Rota			
Fossil Name	Quadratirhynchia crassimedia depressa Ager, 1956				
Type Status	Paratype				
Name History	Quadratirhynchia crassimedia depressa Ager, 1956 – See Ager (1956): Paratype Quadratirhynchia sp. – See Jackson (1926)				
Provenance					
Registration No.	26.135.G236.13				
Collector	Name not available				
Donor or Associated Person	Jackson L F				
Held By	K Amgueddfa Cymru - National Museum of Wales				
Comments					
Location					
Country	England				
Locality	Thorncombe Beacon, Eype Mouth, Bridport, Dorset	• <u>Do</u>			
Grid Reference	Available from host institution	• <u>Do</u>			
Stratigraphy					
Rock Unit	Layer Px, Beacon Limestone Formation	Licence			
Biozone	spinatum	@06			
Geological Age	Pliensbachian Age (Jurassic Period) (183 – 189.6 Ma B.P.)	This work			
References					
References	Ager, D V. 1956. A monograph of the British Liassic Rhynchonellidae, Part 1. Monograph of the				
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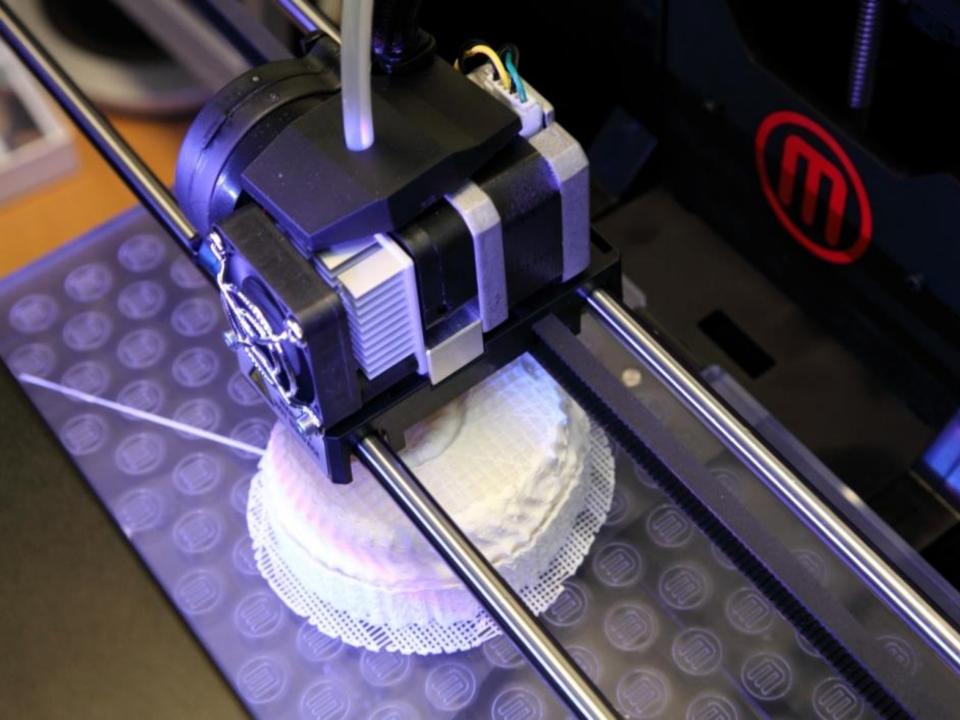
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Imminent and Future Plans

API (requests for beta version now being accepted), **web upload** of new specimens & corrections (manual procedure available now) – contact <u>GB3D-Fossils@bgs.ac.uk</u>

HR imaging of 1 million+ onshore borehole specimens

HR imaging of collection of 225,000 British reference macrofossils

Extensions to GB3D fossil types online for **microfossil types** and **European fossil types**



GB3D Fossil Types Online – Live Demonstration – including 3d glasses

16:00 at Democamp

<u>www.3d-fossils.ac.uk</u> email: <u>GB3D-Fossils@bgs.ac.uk</u>

