Cavan IGH sites_Heritage Report version

		Sheet No.	Sheet No	. ітм	птм	Principal characteristics		Ex-ASI		Definite		Definite				
Site Name	County	6 inch	1:50,000	Easting	Northing	Critical feature(s) key words	Townland(s)/district	site?	Summary description This is one of the best examples of a pitted sandur in Ireland. Due to the best examples of a pitted sandur in Ireland.	CGS	NHA?	NHA	Key references	IGH Theme - Primary	IGH Theme - Secondary	IGH Theme- Tertiary
							Lisduff, Stramatt, Carraghkeelty More, Knocknagartan, Corronagh /		Pritted sandur leatures are nummocky outwash plains, formed either because blocks of dead ice melted out from under the meltwater sediments after they were deposited, or because a large-							
Blackwater Valley	Cavan	43, 44	35	663660E	782360N	Pitted sandur	Virginia	No	scale, instantaneous meltwater flood occurred.	CGS			County Meath Ireland, Glacial Landsystems	IGH7 Quaternary		
	0				70,0001		Carrigabruse, Bruse, Carrakeelty, Carrigasimon, Enagh, Fartagh /	#4	This is one of the few discrete examples of a crag and tail ridge throughout the drumlin betwee composite crag-and-tail features are more common. Probably the finest discrete crag-and-tail within	ŝ			Working Group Field Guide, Teagasc, Dublin, 70pp. MEEHAN, R.T., 2000. Evidence for several ice marginal positions in east central literation, and their relationship to the Drumin Readvance Theory. In Ehers. J. (Editor): Yeant and Chronology of Workdwide Glacatiator, 'INOUA Commission on Glacatiano, Web (roop S, Special Publication, p. 6- 12. MEEHAN, R.T. and WARREN, W.P., 1999. The Boyne Valary in the Ice Age. Geological Survey of Iseland, Dubin, Agp.			
Bruse Hill Ouerry	Cavan	44	35	631466	7840201	Coronea Formation, Tract 2 of Londrof - Down inlier	vrginia Bruse / Arvanh	No	The entrie dumin call. These rocks are expensentative of one of two formations comprising Belt of the Longbot – Down inlier (extending and correlating with the Southern Uplands of Sociand). These Tracts are slices of the cosen floor that one separated northwestern Internal from an major element of the geological history of Instead. Sections of nock (now called Tracts) adjacent to the subduction zone that consumed the Ispetial Cosen. The Ispetial Cosen floor nocks are poorly expected the general and so quarties such as this are important reference sections.	CGS				IGH/ Quaternary		
Druse min Quarry	Gavan	24		031400	730470	Longiola - Down miler	Didde / Alvagit	140	Tract of rocks in the Central Belt of the Longford – Down inlier. These Tracts are slices of the ocean floor that once senarated	000				ISTN Cambrian to Sildnan		
Carrickallen Quarry	Cavan	22, 27	3	5 656450	804110	Carrickatee Formation, representative of Moffat Shales in Central Belt of Longford - Down inlier	Carrickallen / Stradone	No	notice the label to be used becaute the three to be a the observed of the called the lapetus Ocean. Sections of ocean floor were squeezed and stacked up as vertical silvers of rock (now called Tracts) adjacent to the subduction zone that consumed the lapetus Ocean In the eastern end of the quarry there are several well displayed faults that show the silve of faulting in these rocks.	CGS			Phillips, W.E.A and Skevington, D. 1968. The Lower Palaeozoic rocks of the Lough Acanon area, Co.Cavan. Scient. Proc. R.Dublin Soc. 3A, 141-148.	IGH4 Cambrian to Silurian		
Compose Durani	Cauao	36	2	5 652000	903744	Representative in Ireland of the 'Moffat Shale' graptitic horizons which are widespread throughout the Longford-Down	Common / Straton	No	Representative in Ireland of the 'Moffat Shale' graptolitic horizons which are widespread throughout the Longford-Down inlier. These horizons are composed of black shales that in places contain deep sea planticonic fossils such as graptolites. The Moffat shales are commonly found at the major bounding faults between large blocks show of former sea floor, which have been stacked almost writcally like can't. The fossils act Commen quarry give an age for the rocks and help explain the regional geological structures.			NHA		IGH2 Precambrian to Devonian Palaeontology		
Crossdoney Granite Quarry	Cavan	25	3	4 637600	800444	The Crossdoney Granite is one of a limited number of small early-Caledonian granitic intrusions across Ireland	Gortnashangan Upper or Hermitage / Crossdoney	No	The Crossdoney Granite is one of a limited number of small early- caledonian granitic intrusions across Ireland. These were emplaced during the early stages of the Caledonian orogeny that occurred as the lapeitus Occean closed near the end of the Silurian period. Larger granitic intrusions, including the Leinster Granite, formed slightly later in the occearry, around 405 million years ago.	CGS		INDA		IGH11 Igneous intrusions		
Cuilcach Meltwater Channels	Cavan	6, 7, 8, 9	2	6 614200	823230	The Cuilcagh Meltwater Channels comprise three deep guilles that were formed by meltwater erosis on on the southeastern flank of Cuilcagh Mountain.	Altateskin, Altnadarragh, Legnaderk, Altachullion Upper, Altachullion Lower, Althoras, Srahlahan, Drumcask, Knockraen, Srahlahan, Gorteennagiogh, Fumaceland, Hawkswood, Aghaboy, Buinkeeragh / Swanlinbar	No	The features are formed in an area of glacial till of varying thickness and bedrock crops out in some parts of the guillies. The till forms a field of fibbed moraines and drumlins in this area flanking Quicaga and was deposited at the maximum of the last te day. The channels themselves date from deglaciation at the end of the last to e Ape.	CGS			CLARK, C. D. AND MEEHAN, R. T. 2001. Subglacial bedfom geomophology of the Irish Ice Sheet reveals major configuration changes during growth and decay. Journal of Quatemany Science, 16 (5), 483-496. KNIGHT J. 2005. Geomorphic evidence for active and inactive phases of late Devension. Ice In north KNIGHT J. 2005. Geomorphically, 75, 419. KNIGHT J. J. AND MICCAEC. AM., 1997. KNIGHT J. J. AND MICCAEC. AM., 1997. KNIGHT J. Journal of Quatemany Science, 12, 219- 224.	IGH7 Quaternary		
Cuilcadh Mountain	Cavan	4. 6. 7	2	6 612600	826700	The mountain comprises a thick succession of Carboniferous Dinantian and Namuiar nocks.	Garvagh, Edenmore, Legnagrow, Legglass, Eshveagh, Ardvagh, Tullycrafton, Dummakeews, Legnadirk, Aphraochia, Albusen, Tullydermot, Binkeenagh, Aghaboy, Monydoo or Tonycrom, Alteen / Swanlinbar, Blacklion	No	The microarean comprises a mice succession of cardometerous Dinantian and Narunian nocks. The sequence as a whole represents an episode di delta formation as falling sea levels saw Narunian sands degni foil fit eshallow imestors esses of the Dinantian. The Meerymoner Formation represents a very shallow saw, which locally dired up enough to represents a very shallow saw, which locally dired up enough to represents a very shallow saw, which locally dired up enough to represents a very shallow saw, the the saw of the saw of the saw of the the adogram saw. Then then other, Sawrang sammers from don into grid the deltas and left coal deposits, but not in Cuitagh. The Lackagh Sandstore Formation on the top of Cuitagh froms a had resistant cap that has prevented the enosion that has reduced adjacent areas to a much lower height. A core has been etchefuint to the	cgs_	NHA?			IGH9 Upper Carboniferous to Permian	IGH8 Lower Carboniferous	
Drumcarban	Cavan	25	3	4 635593	798976	Copper and molybdenite mineralisation associated with Crossdnew Granite	Drumcathan / Cavan	No	And Standard present of Cavan town, this of Interest as the only granic intrusion in the county and all Drumcathan it is host to Cu- Mo-sulphide minarization, a commo metal association in granite intrusions worldwide but relatively rare in Ireland. At Drumcathan, the medium-granite deugiarnular homblende-biotite grandborte contains thin (few mm – 20mm wide) (partz vinis that trend generally northorthwest–outhscubmest. The venis contain scattered grains of chalcopyrite (CuFeS2) and molybdenite (Morich)	CGS				IGH15 Economic Genlaav		

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			7	_				i		-				1	
Drumod Spa Well	Cavan	7	· 26	620025	826607	The Spa Well is a hydrogeological phenomenon, where groundwater, which has been sufficiate with sulphrous minerals, rises naturally from the limestone bedrock	Drumod Glebe / Swanlinbar	No	The Spa Well is a hydrogeological phenomenon, where groundwater, which has been suffused with sulphurous minerals, rises naturally from the limestone bedrock. Water that can flow through enlarged condusts in imlessione is in effect focated to the sufface when it comes into contact with the impermeable rocks. So the sufface of the sufface of the subscription of the density entry of the sufface of the subscription of the density entry of the sufface of the subscription of the density entry of the sufface of the subscription of the density entry of the sufface of the subscription of the density entry of the subscription of the subscription of the density entry of the subscription of the subscription of the density entry of the subscription of the subscription of the entry known location in the country where coal is found in the 19 th centry and small amounts of the coal were readed from 3.4 m to mms (average 0.2m). Several pits were suite in the 19 th centrically incombustible and the workings were abandowed. The sate today is larged worked down and water of the coal were of the subscription of the subscription of the coal were and the abandowed. The sate today is larged worked of any trace of the bandomed. The sate today is larged worked of any trace of the density and the subscription of the coal were and the abandomed. The sate today is larged worked of any trace of the density and the sate today is larged worked down and the sate of the density and the density and the density density of the density and the density of the density of the density and the density of the density and the density of the density of the density and the density and the density of the density and the density of the density and the density of the density of t	CGS				IGH16 Hydrogeology	
Kall	Cauran	27	24	642601	700507	cool in Silurian rocks	Kill / Kiloplock	No	former coal workings	009				IGH15 Economic Coology	
Lough Kinale-Lough Sheelin Deltas	Cavan	41	34	639600	781970	Ice marcinal deplacial deltas	Carrick, Magheraboy Upper, Moat, Bracklash, Kiloolash / Mount Nucent	#3, #20 in part	The delta features are fine examples of the type of ice-marginal, deglacial features that often form at the edge of glacial lakes. The ridges seem to be comprised of severi individual deltas, which coalesced to form one large ice marginal standardli in the locality. The deltas are chiefly made up of Lower Paleacocica ges hale and sandstone clasts that were derived from the bedrock northwest of the site. These were carried by ice, released into a metivater conduit on top of or within the ice, and then deposted subacucudar st the ice marcina such river left the ice.	cgs			MEEHAN, R.T., 2000. Kells and adjacent areas, County Meath Ireland. Glacial Landrsystems Working Group-Field Guide, Teagasc, Dublin, 70pp.	IGH7 Quaternary	
Mid-Cavan Drumlinised Ribbed Moraines	Cavan	15, 16, 20, 21	27a, 28a	654000	811000	Part of a very large field of ribbed moraines	Cavan - Cootehill - Stradone	No	These ribbed moraines each contain many superimposed drumlins on their crests, and the area has traditionally been known as the middle portion of the 'Dumlin Belt'. Owing to their size, the true scale and size of the ribbed moraines can only be seen using digital elevation modelling (DEM) and satellite imagery. This ribbed moraine field in act only unusual in its size and for the size of moraine field in act only unusual in its size and for the size of moraine field in size of the size of the size of the moraine field in size of the size of the size of the moraine field in size of the size of the size of moraine field in size of the size of the size of the moraine field in size of the size of the size of the moraine field in size of the size of the size of the moraine size of the size of the size of the size of the moraine size of the size of the size of the size of the moraine size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the siz	cgs			CLARK, C. D. AND MEETHAN, B. T. 2001. Subginal to lacking genorophysics) of the linith fee Sheet reveals major configuration changes during growth and decay. Journal of Quatementy Science, 16 (5), 433–486. KNGHT, J. AND Quate, Data Science, In 2015. MINIST, J. 2006. Genorophic evidence for active and inactive phases of last Devension Les in north KNGHT, J. AND MCCARE, A.M. 1997. Identification and significance of Les four transverse subglobal riding (Rogen moraines) in north central Instand. Journal of Quatemary Science, 12, 219- 224.	IGH7 Quaternary	
Moneyrass Glebe	Cavan	2	35	654312	804660	Late Ordovician graptolite and trilobite (resile	Mnaurzes Clahe / Strafrne	No	Trefroct supposines atorator me instights for memor many resource very unusual cellociton of fossils. The fossils are monity grapholites but they occur with a triblete species that is only known from this locality. The combination of fossils is an important marity for understanding the geology of the region, and dating the rocks in deep water tribbite, now classified as Songhies cellulara was washed in with a feor dater fossils or nantibidis and caractods. In modern stratignaphical terminology, these are from the late Katian whether with the other fossils of conductions, formed y defined as whether in with a geology of the region and defined as the other termination of the other fossils of the other fossils of the share other termination of the other fossils of the termination of the other whether in the other fossils of the other fossils of the other fossils of the share other termination of the other fossils of the other fossils of the share other termination of the other fossils of the other fossils of the other fossils of the share other termination of the other fossils of the other fossils of the other fossils of the share other termination of the other fossils of the other fossils of the other fossils of the share other termination other termination other terminations of the other share other termination other termination other terminations of the other share other termination other termination other terminations of the other share other termination other termination other terminations other terminations other terminations other share other terminations other terminations other terminations other terminations other terminations other share other terminations other termi	065		NHA	SIVETER, D.J., INGHAM, J.K., RICKARDS, R.B. and ARNOLD, B. 1980. Highest Octom/constitutional graphilase from Sciences Broat Units Social of 199./07	IGH2 Precambrian to	
Polipruohiisk	Cavan	7	26	616483	828830	Pollprughlisk is part of an integrated system of fracture controlled vertical caves connected by bedding controlled horizontal caves	Alteen Greenan / Swanlinbar	No	Poliprughlisk (and Polinatagha – Poliniska) is part of an integrated system of Inscure controlled vertical caves connected by bedding controlled horizontal caves and is one of the best earninghes of this geomorphological feature in Instand. A surface river sinks into entrones summers is runninghild informed in that cave entrones summers is runninghild.	CGS		NHA	Jones, G., Burns, G., Fogg, T. & Kelly, J. 1997. The Caves of Fermanagh & Cavan.	IGH1 Karst	
Redhilis	Cavan	7	27	646877	815675	Red, ferruginous shales of the Ordovician Coronea Formation	Claragh / Redhills	No	The site is one of these in the Keshnis area where the destance of the concelse Termation were minical for iron in the 19th century. The original Fe content of the red shales at Claragh is 5–7% but local enrichment occurred, under conditions of faulting and locking, to produce a low-grade one containing 17–24% soluble iron. The dock is broken up to a done an extern of local parameters and and the produce a low-grade one containing 17–24% soluble iron. The dock is broken up to a done an extern of local paraes and para from the feature of the solution of the solution of the member (FeAO3). The Rednills Mining Company lists worked the dopoint in 872 production had ceased because of the high silica content of the one.	CGS	NHA?			IGH15 Economic Geoloav	
Rockcorry-Cootehill Ribbed						Very large field of ribbed			These ribbed moraines each contain many superimposed drumlins on their crests, and the area has traditionally been known as the imide portion of the Drumlin Beet. Yowing to their size, the ribbed moraines can only be mean using dipital elevation modeling (DEM) in the size of the size of the dividual failet was a not induced and the large size of individual failet was around Rockcorry and Cootehill, but because they are interspersed with thick deposite of pear, the features are quite straingly defined, forming the perfect 'ribbed' topography. The moraines are generally 5–8 min mong and 800 m or so wide, with individual superimposed drumlins being c. 600m long and 100–200m wide. They attain a maximum height of about 50m but are typically 30m or so high. The largest individual feature is 10 km long. 1 km wide and up to 45m high, meaning it comprises approx. 200 million		NELAO		CLARK, C. D. AND MEEHAN, R.T. 2001. Subglacial bedform geromrophology of the triah to Sheet reveals major configuration changes during growth and decay. Journal of Quatemary Science, 16 (5), 438-406. CLARK, C.D., MEEHAN, R.T., HATTESTRAND, C., CARLING, P., EVANS, D. and MITCHELL, W., 2001. Palaeoglaciological investigations exploiting remote sensing, devation models and GIS. Slovid Geological Magazine, r3(3):313.	1917 Qualmente	

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Sociahouas-Rechills Cross- cutting Ribbed Maraines	Cavan	11, 12, 15, 16, 17, 18	284	644600	818000	Very large field of ribbed moraines, with only known cross-outting ribbed moraines	Redhils	No	These ribbed mortaines each contain many superimposed drumlins on their creats, and the area has traditionally been known is the ribbed moralines can only be serve using digital elevation modeling. (DEM) and satellite imagery. Nowhere sels in the work of have ribbed moralines been noted where they record two separate ice southeast, but there are also forms adjoined to these which are oriented northast to southwest. The features agreement southeast, but there are also forms adjoined to these which are oriented northast to southwest. The features agreement 250m or so wide, with individual superimposed drumlins being c- down tog and tofm-200 mids. The ribbed moralines are thorakey 200 high but can reach a maximum height of 30m.	cgs	NHA?		CLARK, C. D. AND MEEHAN, R.T. 2001. Subglacial betform geomorphology of the Irish toe Sheet reveals major configuration changes during growth and docay. Journal of Quatemary Science, 16 (5), 483-496. CLARK, C.D., MEHAN, R.T., LART, C.D., MEHAN, R.T., HATTESTRAND, C. C.RLING, P., EVANS, J. and MITCHELW, 2001. Palaeoglacological investigations exploiting Slovak Geological Magazine, 7(3),313.	IGH7 Quaternary	
Swanlinbar River	Cavan							No		CGS				IGH	
Tulindarea Falla		7	36	614035	824707	Wendel	Tulk dama Akhara (Sumi'ska	No	The waterfail is a small but well developed example of a waterfail courring at a thick sandstone bed. The turbulence caused in the plunge pool where the water passes over the bed, has had the action of exoding out the underlying hald bed, which is much less resistant to erosion. As the shale is arocked out the thick sandstore becomes unsupported and eventually collapse. This causes the					IGH14 Fluvial and Lacustrine	
Western Cuilcagh - Burren	Cavan	4	26	607080	834250	Karst limestone area with erratics on pedestals and dolines	Luinvenihöt, Altörtein / Swahlinbär	No	meanuments and additional part of the process continuities addam- locations of associations from Oxidany Mouran In the transport dumped by ice onto limestone rocks. Because they are insoluble, the sandstone entitics protect the limestone undernearth from solution by rainwater and thereby create a pedestal on which the sandstone boulders its. The height of this pedestal (around 30 cm on average) reflects how much the limestone land surface has been lowered by weathining since the Ca Age ended. In the northesatem part of the Summ Forest is the Load Valley, a large bat to its size and complexity the Load Valley and Jane bat to size and complexity the Load Valley and Jane bat to size and complexity the Load Valley may be considered as an uvale, or a series of coalesced dolines, rather than a single one.	CGS_		NHA	Jones, G., Burns, G., Fogg, T. & Kelly, J. 1997. The Caves of Fernmangh & Cavan. I automating resources of foldor Carseron. A naching resource to the Marbie Arch Caves Global Geopark.	IGH1 Karst	
Western Cuilcagh - Corratirrim	Cavan	2	26	607650	836010	Limestone pavement	Corratirrim, Laniss / Blacklion	#6	This site has an extensive area of limestone pavement which developed where cracks and fissures were enlarged by rainwater solution of the limestone to form grykes. The upstanding areas of limestore between the enlarged briss are called clinics. There are areas of pavement with bate rock, others where grats has begin to complex mossic field solutions are used to the bate or number are covering the limestone in a thin veneer. A few small caves and others are present.	CGS		NHA	Jones, G., Burns, G., Fogg, T. & Kelly, J. 1997. The Claves of Fernmangh & Cavan. Learning, record court of the Martie Arch Caves Global Grepark.	IGH1 Karst	
Western Cuilcagh - Garvagh	Cavan	4	26	607612	833309	Perchet lake on karst limostoon	Tawnamakelly, Garvagh, Mullaghboy, Legeelan / Blacklion Tawnamakelly, Garvagh, Mullaghboy, Legeelan NEARESTTOWN Blacklion	No	Garvager Lodger is unclear winner the western councider street in tea- liakes do not usually form on limestone terrain as drainage is normally subterranean. Garvagh Lough is probably perched on a veneor diglical till which service to seal off the bedrock. Several streams enter the lake and one outlet river sinks at Pollnaowen. This lake was the side of the first encoded water tracing experiment in 1872. Wheat chaft thrown into the lake sank at Pollnaowen and sonceaser at Shanono Por	0.05		NHA	Jones, G., Burns, G., Fogg, T. & Kelly, J. 1997. The Caves of Fermanagh & Cavan. Lemon, K. 2010. Our Outdoor Classroom. A teaching resource guide to the Marble Arch Caves Global Gecpark.	IGH1 Karst	
Western Cuilcagh - Legeelan Quarry	Cavan	4	26	606696	833988	r endred lake un reist intestone	Legeelan / Blacklion	No	The quarty displays the internal structure of a Lower Carboniferous mud mound, typical of the Knockmore Limestone Member of the Darty Limestone Formation. These mudmounds formed contemporaneously with the bedded, cherty limestone of the Darty Limestone Formation so it is common to see beds of limestone fanking the massive mud mounds. A Legeleal Quary a mud mound can be seen as massive limestone, with beds of limestone draped over the mound and dipping down the lianks.	CGS		NHA	Lemon, K. 2010. Our Outdoor Classroom. A teaching resource guide to the Marble Arch Caves Global Geopark.	IGH8 Lower Carboniferous	
Western Cuilcagh - Pollnaowen	Cavan	4	26	606982	833200	Sinks of a surface river in karst limestone	Mullachboy / Blacklion	No	This site is a classic karstic feature of a surface here sinking into limestone and becoming underground drainage. The river draining from Gavagh Lough sinks into the bedrock over several tens of metres. It is reputedly the site of the first water tracing experiment in 1872, when chaff from harvesting where was put in the water and then seen emerging at Shannon Pot. The drainage connection Shannon Pot, traditionally considered to the source of the River Shannon Pot, traditionally considered to be the source of the River Shannon.	CGS		NHA	Jones, G., Burns, G., Fogg, T. & Kelly, J. 1997. The Caves of Fermanagh & Cavan. Lemon, K. 2010. Our Outdoor Classroom. A teaching resource guide to the Marble Arch Caves Global Geopark.	IGH1 Karst	
			26	005320	024750	Vanis dela	Dan Johns / Diseliji u	#0	This spring rising is traditionally regarded as the source of the River Shannon, the longest river in Ireland. It is a large pool, 16 m in diameter, which has been dived to 9 m dept below which it is in the Cuicagh updands to the east, some coming from East Cuicagh, 10 km away at Pigeon Pot in County Fermanagh. Although it largely travels underground in the Darty Umestone Formation, it is capped by signity younger sandstores and exporting (spourhaering). These have been breached the schedule and the standard the standard the standard for the standard standard for the schedule standard for the standard the spourh (spourhaering) models. These have been breached the schedule standard for the schedule schedule standard for the schedule schedule standard for the schedule schedule schedule standard for the schedule schedule schedule standard for the schedule schedule schedule schedule schedule schedule schedule schedule schedule for the schedule sc			NILA	Jones, G., Burns, G., Fogg, T. & Kelly, J. 1997. The Caves of Fernanagh & Cavan Lemon, K. 2010. Our Outdoor Classroom. A traching resource guide to the Marble Arch Caves Global Geopark.		
western Cuilcagh - Shannon Pot Western Cuilcagh - White Father's Cave	Cavan	2	26	605274	831/53	Three short sections of one cave with unroofed sections between them	Loervianan / Blackilon Loughan, Killycarney, Termon / Blackilon	#25	where year larger Social's at Internant PSC.core or one cave win- uncoded sections between them. The herver in the cave cornes from the Barran rising about 2 km away to the southwest. It previously awark at Politagosans. The first cave is a dy bridge, a short natural bridge under the dol road. Beside the new road the river passes into a 60 m long second cave section which passes under the road. The hird cave is longer and runs for about 200 m before docorated with selectmemers. The entire cave is well docorated with selectmemers.	CGS		NHA	Jones, G., Burns, G., Fogg, T. & Kelly, J. 1997. The Caves of Fermanagh & Cavan. Lemon, K. 2010. Our Outdoor Classroom. A teaching resource guide to the Marble Arch Caves Global Geopark.	IGH1 Karst	