

Locations for Girvanella Band

Alum Pot – blocks of GB in stream bed at top entrance to Upper Long Churn. GB concealed by peat and or glacial drift higher up moor (SEW 1-9-12)

Birks Fell Cave entrance NGR 9310 7700 Alt 362 (366)

Black Sheep Sink. SEW and PR 20-11-12 At least 2m and possibly 5 or 6m black GB limestone at entrance rift to BSS. Needs closer look to see how far down base of GB is. Could be as far down as roof of first crawl.

Calf Holes above entrance drop – see photograph 26-3-02

Caseker Gill above Dow Cave

Compass Pot – NGR 901785, several metres of GB in shaft with black and white junction near bottom.

Cow Gill Cote (O'Connor 1964) at NGR 932647 938642

Cumbria – Humphrey Head GB noted by Ken Howarth 2014 – see pics and *Girvanella notes from Ken Howarth* (Ken Howarth (ken.howarth@btinternet.com) Tel 01539 559394 Geo-conservation Cumbria

Cray – black limestone platform where tractor road fords beck behind White Lion pub, photo 2-2-13.

Cray – across beck from pub and a little way upstream, GB seen as a grassy mound along hillside – see pics Cray Walk 1-9-13

Darnbrook Beck 1425' (434m) and Tributary Valley (O'Connor 1964). Visit by SEW and DLM November 5, 2013 located GB at a small step up (0.3m or so) in the stream bed (88460 71434 Alt. 448) about 70m upstream from a small gorge feature. GB appears to be in the stream bed for a vertical extent of some 4-5m, uncertain because of high water levels.

Dow Cave – GB in roof of passage leading to Gloop-de-Loop, and at Black Inlet. GB in roof at entrance to Hobsons seen on 17-4-15.

Dowber Gill Fine grain black limestone seen 32m on 260 degrees from portal to Low Level of the Providence Vein. Low Level NGR 98539 72939 Alt. 364. Black limestone NGR 98507 72935 Alt 356. Needs detailed inspection of underlying and overlying beds for confirmation. This is just 100m above PB in Dowber Gill which fits in with normal criteria. GB location in bed of Dowber Gill Beck at 98507 72935 Alt. 356, near spring under scar, to be confirmed.

Easegill – May 15, 2015, a significant change from grey limestone to black limestone, the girvanella band, is seen in the beck-side scars near Pool Sink at 67718 80714 Alt. 334m. It is noticeable for an underlying and very prominent band of brachiopod-rich lighter coloured sandy limestone. It can be seen also in the usually dry plunge pool of Pool Sink at 67722 80714 Alt. 334 and at many locations downstream as the dip of the strata is at a low angle. Although superficially a little different it does in fact very closely resemble the girvanella limestones of other exposures mentioned in these notes. This altitude accords with the assumption that GB is usually located some 100m above the PB because, at 344m, it is 100m higher than the estimated altitude of 244m for the PB in the Lower Kirk. (see relevant images on the GB pages)

Foss Gill Pot – 29-5-02 zipdisc pics 13, 14, 15 (also valley side fault)

Giants Graves – well exposed inside the first window into the underground stream immediately west of the barn where the road crosses the dry valley NGR 8555 7318.

Almost the whole of the stream bed from the sinks near Blishmire to the rising at the head of Penyghent Gill is within the GB, overlain by the GB, or, underlain by the GB. This may well be an instance of Dick Glover's hypothesis of a shallow cave having been broken down by the weight of ice during the later stages of glaciation.

Greenfield Beck, Prominent exposure of GB at 8575 8016 Alt. 350m, north side of road, in bed of small stream draining off forested moorland of Beckermonds Scar, approximately 1km east of Low Green Field farmstead. Black limestones continue from roadside, stepping up the stream bed for some 50m to forest fence.

Hagg Beck, Head of

Hagg Pot 4m GB or more in entrance to bottom of shakehole

Hesleden Bergh – abandoned dig in GB with much GB debris around.

High Mark NE of Middle House (O'Connor 1964) 1675'

Hull Pot - step up just above lip of open pot (see photo)

Hawkswick Clowder. Some 20m east of wall across Hawkswick Clowder at 94531 68499 Alt 460 (OS map and Google Earth). Visited February 10, 2014 with D L Milner and SEW. Superficially appears to be a fairly thin bed – c <1m thick but needs further inspection around the fell. See photos 10-2-14

Jacks Cave, Langstroth, NGR 89696 78817, formed entirely within GB – needs checking out on a better day. 5-1-13, Could be partly due to iron rich peat bog water (Palmer 2011)

Kneepint Cave, Langstroth, similar to Jacks Cave – to check out.

Jib Tunnel, Floor of, first sighted by SEW c 1980. Positive identification September 27, 2013. See photos. Also GB seen at entrance to Flood Entrance Pot and as a well polished exposure along tractor road c 200m further towards GG on same date.

Langstroth Pot , GB forms entrance pitch c 7m

Ling Gill Bridge, good exposure of GB at side of stream. see photos

Lockey Gill, one of the best exposures in the area, a few metres downstream from road bridge, clear transition from grey limestone to black limestone. see photos NGR 857735

Lost Johns Hole (360m) – great thickness of GB at entrance and down into the cave seen on 22-4-15. Continues down along the cave passage for at least 80m. Full extent yet to be determined.

Out Sleets Beck Some 10m downstream from the entrance too the pot. Not obvious due to presence of lichens and the absence of active surface stream at this point. See photos 13-10-13.

Pasture Gill 5-8-12 GB clearly exposed at c350m Alt. at foot of small gorge feature, followed by much black fossiliferous LSs, appears to be several metres of Dirt Pot Grit higher up.

Park Gill top of cascade – NGR yet to be determined

Pig Pot, (High Swineber Pot NGR 98961 69831 Alt. 414) At gate (NGR 99286 69899 Alt 417) through wall above this location the GB limestone bed is polished by farm traffic. Gate is c330m on 80 degrees from Pig Pot. Hole is covered with manhole lid and pile of rocks.

Trollers Gill. GB typically exposed in Hell Hole (Alt. 925ft, 282m) (Anderson F W, 1928, The Lower Carboniferous of the Skyreholme Anticline, Geological Magazine Vol. 65, Iss 11, Nov 1928, pps 518-527)

The exposure is on ledge at base of first step down, before 2m climb down into entrance proper. Photos SEW June 1, 2013. Also probably seen at cascade immediately below footbridge at head of Trollers Gill, photo (with kiddies) April 15, 2008, to be confirmed.

Turbary Pot, Glover 1973 CPCJ 5.1 Page 9

GB just upstream of where Swinsto stream crosses Turbary track

Scales Moor, GB at ent to dig near Blake Bank Moss Cave, 28-2-07

Scars Hole, Langstrothdale – black and white chamber

Sheepfold Dig, Langstroth. Dig in GB, transition to grey limestone some 5m down reported by PR on 10-4-15

Swan Dyke, Penyghent Gill, excellent exposure with many fragments of GB amongst diggings

Sulber Nick, 8-9-13. NGR 77000 73686 Alt. 400m, some 300m south of the gate below Farrer's Shooting Hut, right on the line of the Three Peaks footpath crossing the wide terrace, along the line of Sulber Nick Fault, the GB is well exposed. This, almost certainly, is the original location of T M Hughes 'almond' bed – "a well marked band full of small yellowish concretions formed around organisms which I will refer to as the 'almond' bed." (Hughes T M 1908 p277). Hughes refers further to these 'almond-like concretions' at Hull Pot "near the mouth of the chasm" (Hughes T M, op. cit. p281)

West Hagg Pot, Langstrothdale, approx 7m of GB exposed in this rocky shakehole

Yockenthwaite, some 3m of GB, corresponding to the GB across the valley, not well seen due to weathering and cover of vegetation, seen as a grassy ridge with grey limestone scars above and below.