

UCC EXPO

LOG BOOK

2016.

~~25/6~~ 25/6/16 Becha, Andrew, Sean  
TU Fhrs.

Turnocks - rigging to start of String Theory

I found the end of Nates rigging on the swing  
over above the final snow slope + rigged down  
with 3m less rope than would have been ideal.  
Some Bre ice columns at the bottom of the  
pitch. I then rigged Caravel Lattaris on 7cm  
of the unloved 11mm, using all the way -  
I had to brace to force my way down  
+ the knots were like dinner plates - no  
more 11mm please, ever! We then decided to  
rig the traverse over the top of Usual Suspects  
to avoid the long route round which, oddly,  
everyone has chosen to do in the past few years.  
However, this left only 8 bolts left for String  
Theory so Andrew rigged down to the corner above the  
main pitch with the new 200mm of 10mm + we  
headed out the long way round to slow Sean the  
way. Traverses all left rigged on nasty red 9mm.  
Sean got v.v. overheated coming out of the entrance  
so I think my double runny advice won't be  
taken up. Walked down the hill just missing the  
Stems

23/6/16



Bedra, Andrew, Sven  
T/U 8 hours @ 7 1/2 hrs walking

Walk over ~~Grimm~~ Grimmig from  
Niederstuttern via Grimmigshütte, Multereck +  
Grimmigstoppel + ending at Kulm.

left my bike at Kulm then drove to Niederstuttern  
(this is definitely the better route for the bike -> can  
shuttle as all downhill!). Set off 8:45 but  
already hot + near heat stroke on the initial  
ascent. I had 3l water which wouldn't have been  
enough except there's an excellent spring some way  
above the Grimmigshütte where we refilled. A few  
cories + metal foot poles so like ~~as if~~ an unprotected  
we traversed on ascent + descent + may be problems with  
snow earlier in year or in a high-snow year. Descent  
down steep ridges + narrow stony gullies in a fairly  
improbable manner - impressive there's a route over at  
all. A very fine day out though sadly Zubon didn't  
get to hang-glide over us though we collected him  
from his field in Bad Mitterndorf.

22/06/2016

nat

Nat, Ash & Elliot  
T/U ~ 3? hours

After day of top camp jettling we set off to  
Balcony to rig the entrance shaft, after initially  
intending to do only a carry. We reflected  
en-route, so as to be able to find our way  
back, arriving ~ 8 pm. I rigged the first ~~so far~~  
rebelays, digging ~~deep into my nose~~ not really under-  
standing what the bolts wanted me to do. Elliot  
took over & we eventually got to the bottom  
with some bodge. ~~As we were not far~~ Due to a  
lack of inspiration ~~we~~ we headed back out, & back  
to top camp, getting there ~~at~~ ~ midnight.

~~22/06/2016~~ ~~work~~ ~~collout~~ ~~back~~

Nat & Ash

Thurs

22/06/2016 T/U 4?? hours

Feeling keen we set off to rig Turnocks entrance  
shaft, optimistically we took ropes ~~hanges~~ hanges to  
get to the bottom of ducks on ice. Burdened  
by several bags & equipped with my skyhook  
I set off several exciting swings & ~~the~~ wall dest-  
ruction (by skyhook) complete saw Ash & I  
in sight of the ~~ice~~ plug bottom ice/snow plug;  
after a final ~~skyhook~~ swing & lunge to gain  
a skyhook placement to put a ~~hanger~~ bolt in

& looked up to see the other <sup>hiltij</sup> ~~part~~ for a  
y-hang out of reach. At this point I got fed  
up ~~to be~~ ~~went~~ ~~home~~ of silly acrobatics & we  
went home despite the end <sup>being</sup> in sight.  
of the entrance

24  
~~2016~~/06/2016? T/U <sup>Friday</sup> Nat & Elliot

After a disgustingly warm carry up the  
hill with Anthony, Josh & Elliot, Elliot & I  
decided we still wanted to go caving. We  
headed over to Balcary with 100 m of 11mm  
snake rope, ~~and~~ ~~the~~ ~~bolting~~ & surveying kit.

Derigging the far too thin, previous rope we  
set about swinging into windows on the 34 m  
pitch ~~the~~ my only lead from 2014 that  
hadn't been snapped. <sup>(pos. good position)</sup> After a loose climb &  
another scary climb (that Elliot went up) it  
crapped out, giving ~~the~~ <sup>the</sup> grand total of surveyed  
<sup>(new)</sup> passage of <sup>(Swinger)</sup> ~ 10 m. After re-rigging the entrance  
on speedy 11 mm we went for a little Gimple  
& found ~~the~~ natural high's had been derigged.

See 2 pages later for rigging guide  
6 mailons  
4 hangers  
2 string kits  
1 drill  
hammer/screw  
hiltis + 2 bits

26/06/2016 Nat & Anthony T/U <sup>8th</sup>  
Rigging trip down Turnocks, ~~continue~~ Anthony  
continued rigging down String Theory whilst I  
sat & refrigerated. String Theory rigged we consolidated  
rigging kit & Anthony continued rigging down  
procrastination; I continued to refrigerate. Rigging  
complete we headed out. 9 Krabs, 9 mailons, 9 hangers  
2 of 3 magic glue (dev.)

27/06/2016 T/U <sup>hours</sup> 11.5 Nat & Wookley <sup>11</sup>  
Set off to continue rigging down Turnocks  
(aiming to carry 2 bags ~~to~~ camp). On the way  
the ~~handline~~ one bolt wonder handline <sup>before usual suspects</sup> was  
converted (more or less) into a bonafide  
traverse line. Picked up ~~rig~~ Krabs, hangers & mailons  
from bottom of string theory <sup>2</sup> & carried on  
down procrastination; ~~rig~~ Wookley rigged number  
of the beast & we carried on down to magic  
glue, putting deviations in along the way.  
Once at magic glue jay <sup>with</sup> ~~was~~ <sup>I was</sup> ~~was~~ ~~getting~~ ~~tanked~~. Once <sup>I was</sup> at the  
bottom, wookley installed a deviation; having  
previously dropped Krab/sling down the pitch:  
"it's a good job we're not climbers or we'd  
have to retire that", on a spike, bags were  
left just below magic glue, with a long plod  
out.

Stuff left: 2 cambags of camping stuff  
1 drill, 2 drill bits, 1 battery, blow tube  
hammer/setter & hilt's

No drill tackle sack

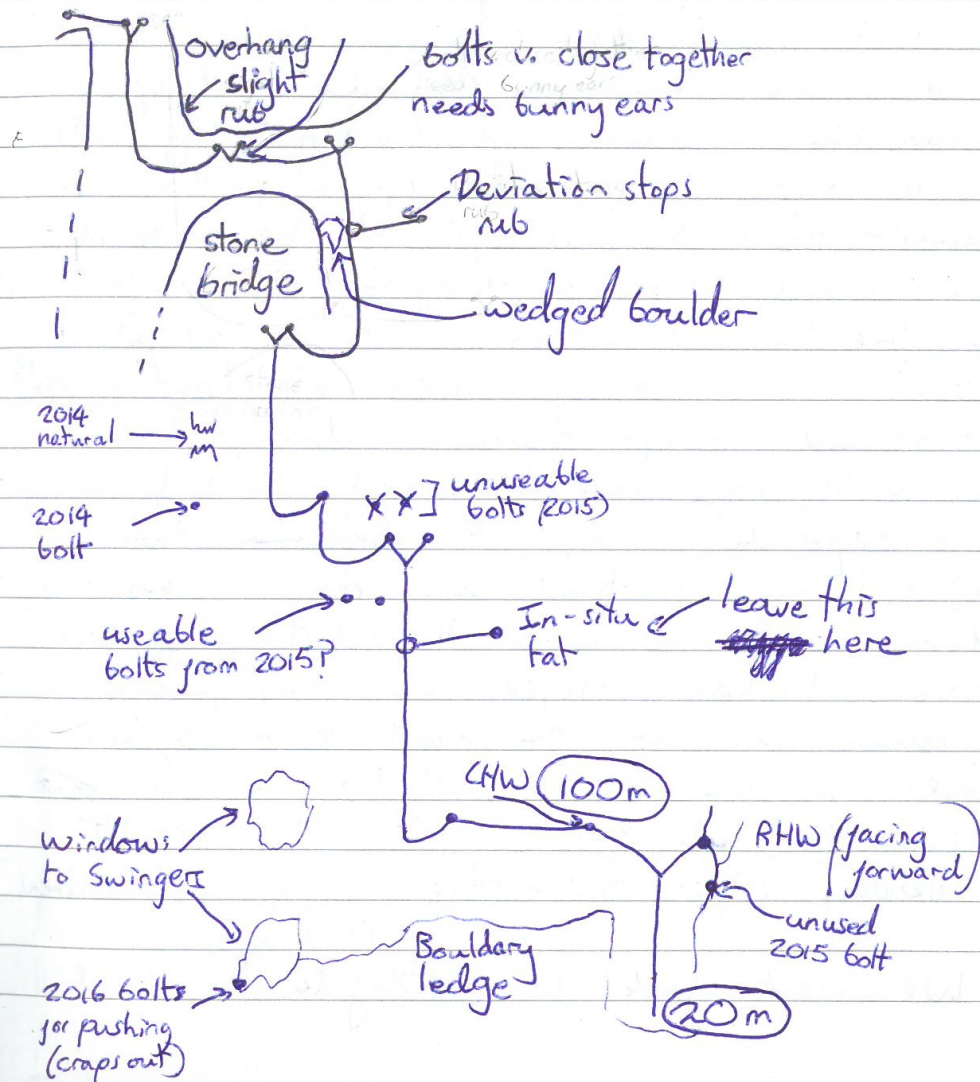
8 mailons  
6 Krabs  
4 hangers  
2 bits of tat

28/06/2016 T/U 4 hours Nat & Luke

Fettled Tunnocks entrance:

- Replaced all slings or deviations with tat
- Fiddled with hang on 2<sup>nd</sup> ~~rebel~~ deviation (down)
- Fiddled with deviation on 2<sup>nd</sup> rebelay (taken out)
- Re-rigged final drop onto ice plug (similar to 2015 now as opposed to 2014 rig)
- Added natural to y-hang at Caramel Catharsis pitch

24/06/2016 Nat & Elliot  
Balcony rigging guide (start of 2016)  
100m + 20m  
~17 hangers required



Monday 27/6 BalconHohle  
~~Sunday 26/6~~ ~~Fornaces~~ Signed, Becka, Andrew  
TJU 6 1/2 hrs

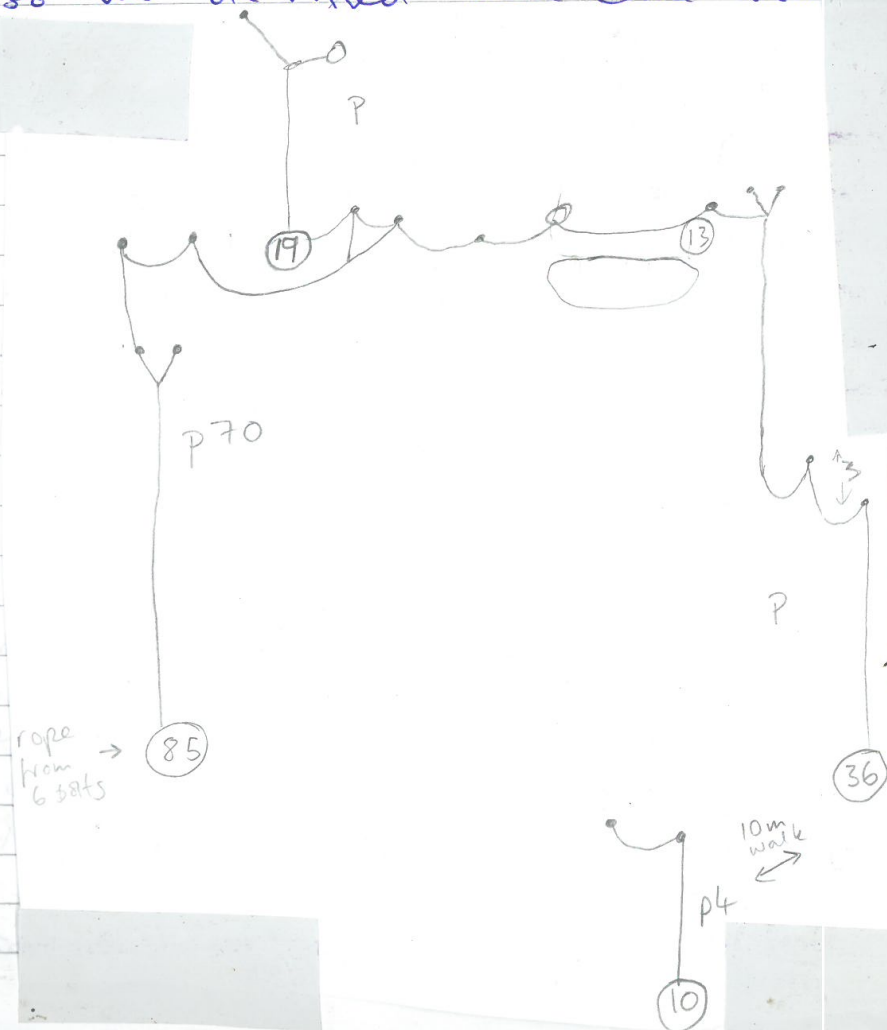
Went for an explore with a few  
30m lengths of rope. Was mine  
& Andrew's first trip down & Becka  
hadn't been down since 2014.

Andrew was initially considering dropping  
down one of pitches at Natural High but  
George suggested a better option further on  
~~down~~ that turned out to be called  
Consolidation Pitch. Rigging of a bolt  
on the traverse across a series of pitches  
down to a ledge with a <sup>cleared</sup> <sup>with bits of</sup> <sup>water</sup> <sup>diff</sup>  
4 second drop straight down. Due to  
lack of rope we traversed over to  
the opposite ledge to descend the  
pitch beyond that was dry. In  
down with a couple of rebelay's ended  
on a boulder slope with <sup>sunbels</sup>  
coming in from the right & a squeeze  
over a 4m drop at the bottom. ~~This~~  
~~led into~~ but we had no rope left.

Tuesday 28/6 BalconHohle Signed, Becka, Andrew  
TJU 6 hours  
We went back to investigate the lead

with some more short pieces of rope &  
100m of 9mm. Having recovered a 15m  
piece of rope from that had been dropped  
at Natural High we reayed the pitch  
initial drop & continued back to the  
bottom of the boulder slope. Squeezing  
round a pillar <sup>we descended</sup> into a wet chamber  
with some pretty <sup>shar</sup> rock formations. The  
passage continued round the corner  
& ended with a hole in the floor  
& <sup>Sloping</sup> <sup>down</sup> <sup>given</sup> <sup>des</sup> <sup>coming</sup> <sup>in</sup> <sup>from</sup> <sup>the</sup>  
right, where we found a survey station.  
This turned out to be <sup>where</sup> <sup>ended</sup>  
up at the end of last year having  
come in through the passage coming  
in from the right at the top of  
the boulder slope. ~~They~~ <sup>and</sup> had free  
climbed the squeeze bit. He had just  
run out of batteries for survey equipment  
& not been able to return (hence the  
name - Batteries). We decided not to  
survey the incoming passage & instead  
Becka went down the main <sup>75m</sup> pitch  
to investigate and survey. There was nobody at

the bottom of surveying turned out to be impossible as the disto we had that day was only up to 50m (the one we used the day before was 100m). So we de-rigged and came out.



Thu 23 June ? Wed 22 June 101 survey practice Jenny +olly  
2007-71 Ngahake

Got sufficient gear up the hill to go caving + sh (failed to remember screen, my safety card and a few other things).

Went to 2007-71 to look at pitch leads. Started with 07-02C, as it looked easier to get into than 07-01B. Pitch drops down on right, passage continues a few meters on ~~left~~ <sup>right</sup> with a couple of other holes to the pitch tunnels as a ~~result~~.

Only rigged down, natural backup in main passage, natural, bolt, bolt, deviation to get to the floor. Pitch got wider on the way down to end in a moderate sized chamber with an icy/rocky floor and a very pretty snow cone. Sadly no oxygen. I poked into a tight passage, but it only went a couple of meters. Exited, confirming that 07-01B connects.

Left night to survey one we've calibrated the disto. Checked 15-01B - it is too small to get in to sadly. It might be possible (but not trivial) to make the rock.

T/D: 3 1/2 hrs

Sun 26 June 101 survey practice Jenny +olly

Got a lift up the hill in the morning and learnt to use the disto and topodroid in the bidicave. Learnt enough to go and do something useful, so headed to 101. ~~It~~ Sounds simple. Sadly we didn't completely remember where 101 was (last visit ~~was~~ in 2012) and we had no data in the GPS to help. Spent over an hour wandering around the plateau in caving gear. Headed back

to camp to outfit the GPS + night prospecting map project. Found the cave easily!

Survived in splays and toppling (in colour!) as we used to get past the skylight entrance and down the climb before it got too tight for Oily, and we were cold. Headed out surviving out the skylight entrance as we used.

Tu 2hs

Mon 27 June 2007-71 Ngarahoe survey Jenny + Oily

Down to the Ngarahoe snowcave and survived out. On the way we lost the nail pitch back down the pit (I looked for a while, but gave up in the end). I swung across inside parallel shaft from 07-01B and confirmed there were no further leads.

~~Then~~ Deinged and planned to make onto 15-02B, but had failed to bring a drill battery. Had a wander on the surface inside looking for new entrances.

Later on used for an unsuccessful walk looking for 2007-off, ~~and~~ thought it did at least warm us up.

Tue 28 June 2007-71 15-02B Jenny + Oily

Oily rigged down 15-02B. Sadly dangled about where the final drift leg of 2015 landed. Deinged out and removed all of our gear from the cave. I was very sad it had ended. Went to look at 97 (the day before I had climbed down the unknown chimney to see if the vertical connection to 2007-71c was

worth rigging - it bit as it will just be to heat air in the day. The chimney is a fairly easy climb but tricky in current ice levels (to exit at the top - it is tight and you are wedged in at the top) a 10m climb!). Anyway today we survived from the top the dolhead the climb.

Had a look at the surface near 2007-71c, there is a strong linear feature with a small chert off it, but not really an actual cave.

Tu 2 1/2 hrs

Tue 28 June (later) 76 rigging Jenny

Took the first rope in to 76 to make a start on the rigging. I've barely rigged in years, and not been to 76 since 2007, and was using the stop that Julian kindly lent me, having only used a rack for years. Any of all used fine, and 76 was comfortably familiar, the hiltis had serviced the last decade fine (though the one at the top of Draft Bitch had a bit of rusty grease in it). Got to the rock bridge today and decided a drill would be useful to add a higher duration so I came out, ready to walk down the hilt and experience going to the den in Gen the next day!

Tu 1.5 hrs



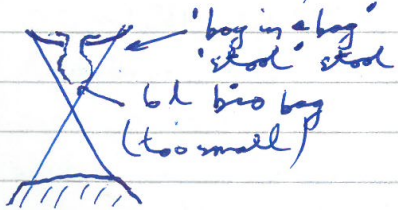
29<sup>th</sup> - 30<sup>th</sup> June  
Wed 29<sup>th</sup> - Thurs 30<sup>th</sup> July Chris, Anthony, Nathan  
Turnrocks - 'Living the Dream'

Wed 29<sup>th</sup>  
Wed 30<sup>th</sup>

I had spent a year dreaming of where the 5m diameter pneumatic tunnel 'Octopusy' led from the bottom of Kraken chamber. Sitting on the knot at the end of a long length of 6mm cord, the tunnel ramped down at 30° but we really had run out of gear and time on 2015 expo.

So it was wonderful for Anthony & me to return together with Nathan, laden with a fat kacklesack each and picking up 2 more drill left by woks & Nat on the way down.

Kraken was roughly as we remembered it and Anthony & Nathan set about leveling the dry mud floor in the large alcove we had identified as our bivouac location. I collected water, installed the antennae for the OVC System Nisoda (the original) that I had borrowed, and installed the lavatory:



WARNING: Approach the crapper in a way that a male porcupine may approach a female, i.e. VERY CAREFULLY.

Andrew's specially made bivouac tent was eventually suspended from the roof, with one corner requiring a large boulder to be rolled uphill by the 3 of us to act as a footstool to place a bolt in the roof. At 9 pm we plugged in our radio for our pre-arranged call to Steinbricks, only 650m distant according to the survey. We heard the same noise as we had heard on the surface when testing it but no voice. Nothing. We enjoyed bal-in-the-bag curries with couscous and slept soundly.

Thurs 1<sup>st</sup> July 30<sup>th</sup> June

We rose to make our 9 am <sup>call</sup> and this time couldn't even hear any noise - total silence. We had produced too much humidity for the bivouac tent fabric to breath, so we had an enforced 3hr faster to dry out the sleeping bags and set off for the bottom at 12:30 pm.

Anthony placed a second bolt at the top of Octopusy, and replaced the short length of SRT and long length of 6mm cord left in situ from 2015 with a 100m length of new 9mm. He descended the ramp and a while later called up to say if we wanted to reach the bottom we

should bring more rope. Nathan took what we had, and soon all 3 of us were looking around at a 10m diameter phreatic tunnel that we had dropped into. It was a beautiful passage in pale limestone with many ~~delicate~~ delicately fluted formations in the floor.

"Octopusy is a 5m diameter 100m long phreatic tunnel that ramps down dip to the West at an angle of around 30 degrees. It drops into Living the Dream, a series of phreatic tunnels. To the North is unexplored, with a ~~phreatic~~ phreatic ramp heading up East parallel to Octopusy, and a possible choke to the NW (QMC) - the South, Living the Dream ~~head~~ is initially 10m diameter and reaches a crossroad after c. 30m. The main passage heads East up a ramp to a ~~dry~~ horizontal dry cracked mud floored passage. This ends with a <sup>junction with a</sup> climb down a ramp East to the head of a 20-30m pitch (QMA) ~~and~~ or a climb up a steep gully to the West ~~with~~ which leads to a potential 25m traverse over a pitch / rift (QMB) and a hole down (QMC)

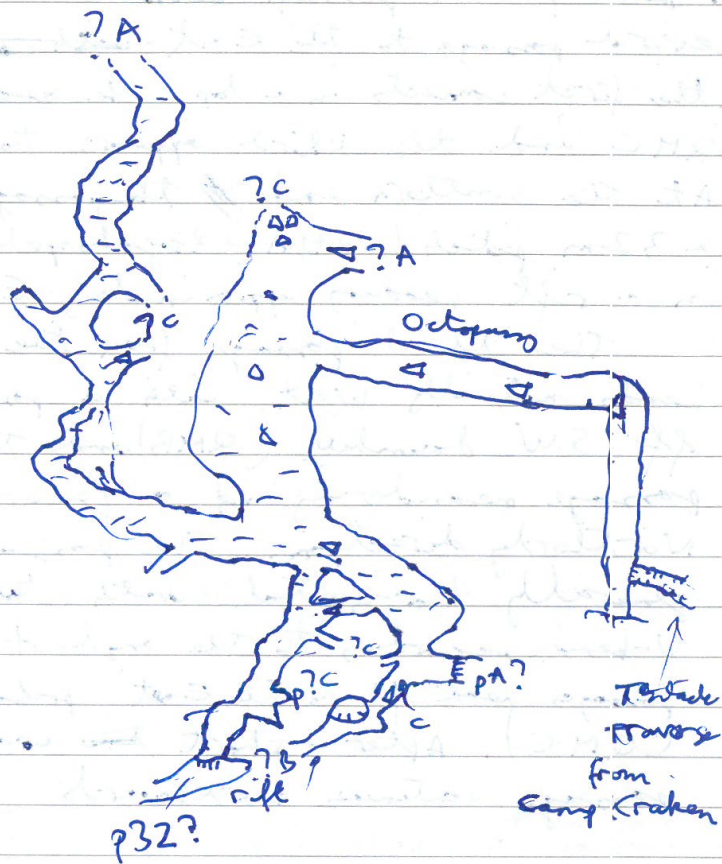
Back at the cross roads 30m S of the junction between Octopusy and Living the Dream, a dry ~~and~~ mud floored passage meanders South <sup>for 50m</sup>, past several passages to the East ~~with~~ (the first connects in a loop, the second is a QMC and the third appears too tight). At the Southern end ~~the~~ the passage ends in a 32m pitch (QMA), Psychopelogenesis (?) in a rift heading approximately East-West.

The third passage from the cross-roads heads initially West, with a passage leading off SW downhill (QMB) and the main passage meandering in a generally Northerly direction. The passage is generally horizontal with two dry U-bends according to the angle of dip. Two passages head off to the East, probably connecting (QMC). After a short ~~the~~ crawl the passage continues Northwards (QMA)"

with c. 300m in the book we headed at <sup>we</sup> adding 2 bolts to Tentacle Traverse and all stopping for soup at Kamp Kraken. We left camp over 7pm-8pm, staggered for safety, exiting over 12am - 2am not necessarily in the same order.

T/U 36 hours

'Living the Dream'



30 June 2016 - Bedia, Nataniel, Simon, Andrew  
 258 - Rigging Clamagne on ice. T/U @ 9 1/2 hrs  
 (Tunnodes)

Nat + I had good memories of the leads down Clamagne on ice so we packed 4 backboards + ~ 260m rope + started rigging. Missed the 1st two pitches by starting by the Tom Clayton sneaky route through boulders below the start climb on the main route. Took turns rigging + cursing the rigging guide which gave no indication of scale + insufficient detail (Nat got particularly grumpy) but after a couple of false drops + q. some hunting for spits (not helped by thorough greasing of the spits making them near-invisible) we rigged to the bottom + the short traverse beyond.

@ 1st July 2016 - Bedia, Julian, Andrew  
 264 - Balkonhoehle - Frozen Narts  
 T/U 8 hrs?

Had a good orientation session trying to spot good QMs in 264. Went up Turtlehead + looked for QM92A + concluded it probably didn't exist (it was just the pb). Then looked gut to N, looked at S side of QM p60 but v. wet this side so we picked our way around to passage on its S side.

+ Andrew rigged down to a large ledge + ten floor, no way on - a fine 40m pitch but a disappointing end. Then checked the snow slope on far NW of frozen North. Andrew kicked steps up snow bar ~ 15m then I came up + he put in a bolt + I belayed him up another ~ 20m. Good knot + lots of moss, leaves etc but no sign of light so our hopes of escaping out of a new entrance were dashed so we headed back via the Crack Area.

2nd/3rd July 2016 - Rohan, David, Mark (Rescue)

Z64 Bultenöhle - Cathedral Chasm

TU: 18 hours

First 7 hours of the trip went relatively smoothly, despite David forgetting to bring a pencil for surveying. We made our way to Cathedral Chasm which included getting past a particularly awkward climb, requiring removal of SRT gear and much swearing on my part. Traversed around a rather large pitch, and put in an extra ~~p~~ bolt at the end of the traverse before continuing onwards to the possible lead. David ~~ripped the bar~~ put in some bolts to rig the traverse, but was unfortunately cut short after he dropped the setter down the ~~pitch~~ pitch. I did some exploring and found an alternate route to the chasm, ~~about 3 metres~~ into which opened around 3 metres into the traverse David was

rigging. Since the loss of the setter essentially dented the trip, we decided to head back, although David remains optimistic that the lead will be fruitful. We made it to the series of entrance pitches, and then it all went wrong. The pitches were wet, but we foolishly decided to attempt ~~the~~ going up regardless. I went first, got up to the first rebelay point, started up the second but only got a couple of metres up before deciding that continuing upwards would be a terrible idea - the pitch was around 30m and at this point the water was falling hard, heavy and cold. Oh, so very very cold. Down proceeded til I hit the ground, but then managed to get my hand jammer stuck, essentially tethering myself to the rope, under a waterfall of freezing doom. Alternated between trying to free myself, which required going ~~straight~~ directly under the water, and standing to the side to avoid the water. Seemed hopeless, ~~but the water cooled~~. After about 10 minutes David came up, and whisked me. We went back down the pitch and back into the cave. At this point I was fairly slow to rejoin and lost some motor friction. I recall having some very weird thoughts. At this point it was about 8pm, and the start of a very long, cold night. Tried to warm up as much as possible without much success, while waiting for cave rescue. Mostly, it was boring - but seems to drag so 10 minutes feels like an hour. Conversation between David and I was forced - included ~~some~~ precept trivia. The survival bag did work though; we were alive when Mark arrived at 11pm.

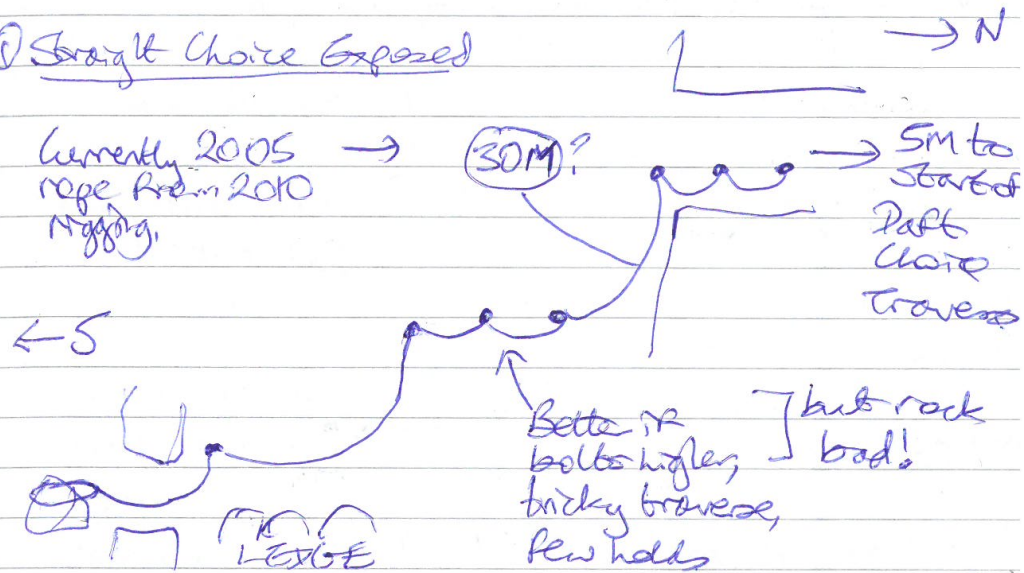
~~I don't feel any better, but apparently I was misheard.~~ There was some miscommunication between David and Mark which delayed rescue by 15 minutes or so; neither could hear the other over the water, which was incredibly painful at this point. After that point, Mark finally got down and from that point things moved pretty efficiently. Got into a bivouac, consumed some soup and then we waited for about 5/6 hours. It wasn't the most comfortable night. That said, going from incoherent to somewhat functional was a definite improvement in condition, so I wasn't complain too much. Misery levels were high, but ~~not~~ not as high as they would have been had we died of hypothermia. I suppose dead people can't feel miserable but it would have been a ~~horrible~~ <sup>horrible</sup> for everyone else. Around 5pm, the condition of the pitch had dramatically improved, and ~~we decided to~~ Mark made the executive decision to get out then. Again, it was a very efficient operation. Mark and I tandem prosocled out, and David followed behind. By 6am, we were officially out of Balkonkichele.

There are several lessons to be learned here. The first is to avoid wet pitches - don't be swayed by hubris. Secondly, appreciate cushions. ~~After~~ <sup>After</sup> sitting still ~~is~~ <sup>is</sup> on unyielding limestone for several straight hours if you don't. Thirdly, you don't need to take drugs to experience altered states of consciousness. Just get really cold. But at the end of the day, it was an experience, albeit not a fun one. We live to come again.

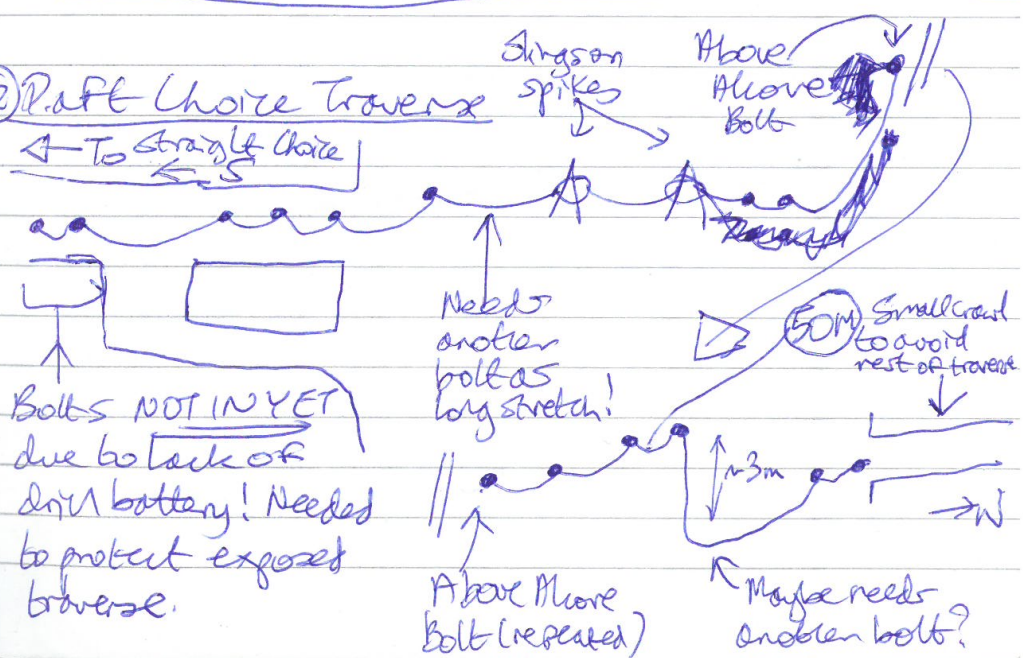
Tunnocks Rigging Guide. (2/7/16 - Andrew, Becky, Luke)

② Part Choice ~~at~~ <sup>at</sup> Straight Choice Exposed

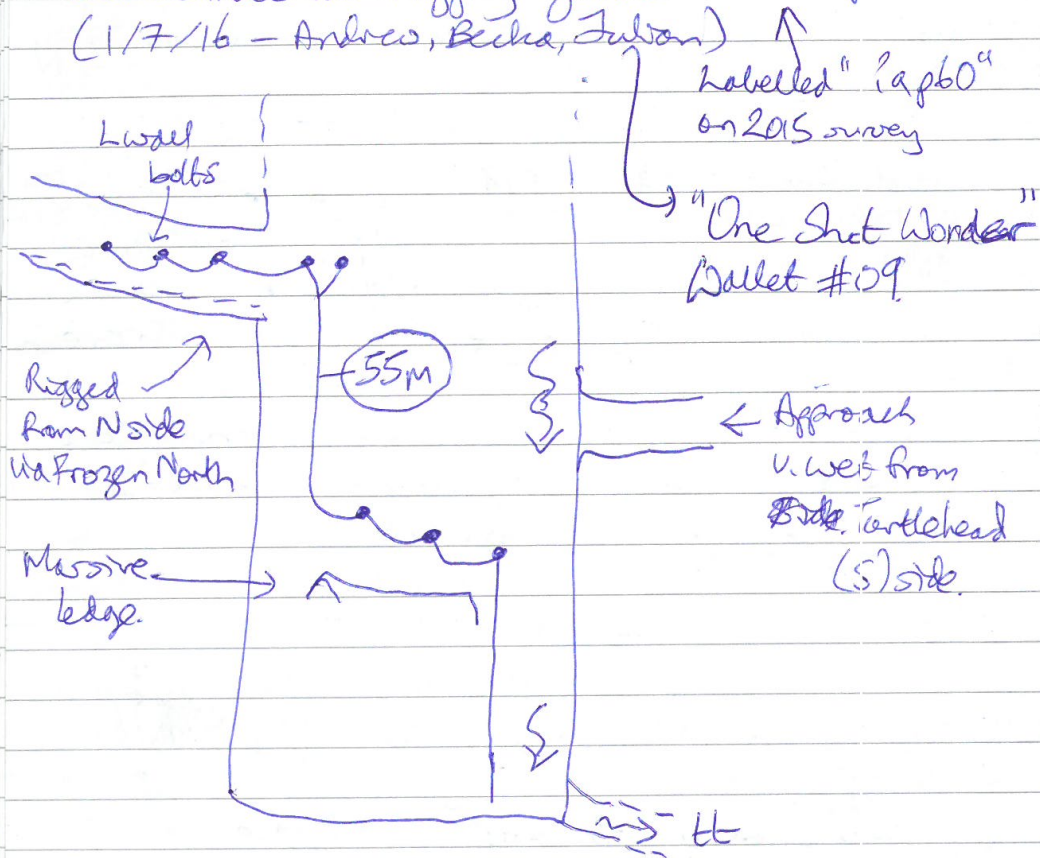
① Straight Choice Exposed



② Part Choice Traverse



Balkonhoehle rigging guide - 936 pitch  
 (1/7/16 - Andrew, Becha, Julian)



Looking for 2nd entrance Balkonhoehle  
 3/7/16 Andrew, George, Luke, Becha, Sian

Dropped 2010-04 using natural to get to snow slope. Andrew + I used the shovel to dig at the base + the side in 3 spots. Soft snow initially + some gaps but no draft. Gave up after less than an hour. Survey in folder #08  
 2016-08 →

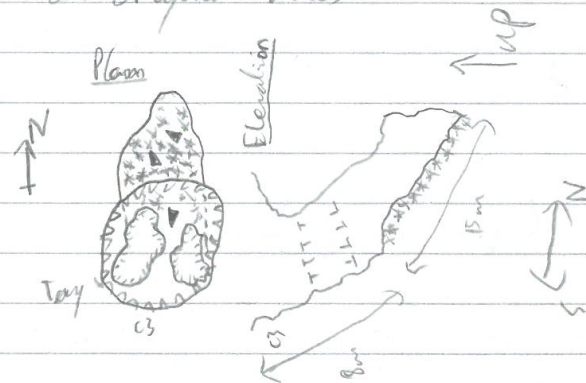
Dropped 2010-03 using natural. Becha down - no way on. Turned out Noel had also deduced this in 2012 + surveyed it.

Scoured area but nothing new found.

TKA Becha + Andrew ~1 hour, Okes, 2 hours

2010 #03 - on original notes

2010 #04



2<sup>nd</sup> July Balconhöhle Rescue  
Mark, George, Nat.

At 22:00 David & Roshni's callout went live. We scanned the hill for lights but saw nothing. So we prepared for a rescue and departed for the entrance. We had the response bag and Mark had some extra emergency equipment in his own kit. Nat stayed on the surface prepared to run for more help if needed. Mark & George descended the cave and established contact halfway down the entrance pitch. Mark went down through the water (it was very wet) and arrived at the bottom to see a rather cold and worried David and a very cold Roshni. Because of the risks of descending the pitch Mark signalled to George that he should go back out. First action was to put extra clothes (duvet vest) on Roshni. We then set up camp. Tackle bags etc on the floor to sit on and then

the botchy to get into. Hot soup and plenty of flapjack. Candles for extra warmth.

At 05:00 we judged it sufficiently improved that we could try to get out. That went very smoothly. Mark gave Roshni an assisted prussik and she put in as much effort as she could. We met Becha at the col whilst slowly making our way back to camp.

Some thoughts:

- a) The botchy shelter was great.
- b) The extra clothes I had were very useful. On a call out, pack a few fleeces, gaiters, whatever in a dry bag and take down.
- c) The short length of SRT rope I took was very useful, not only for prussik assist but also for litching up the balcony climb.

d) Communication with David up the pitch was impossible. Use a whistle! If you are in trouble and need the rescuers to come down give the standard emergency signal (six blasts).

T/u	Mark	7 hours
	George	3 hours
	Nat	2 hours

Haydon 2 hours



extra reinforcement at the surface

1<sup>st</sup> July

Tunnocks - Champagne on ice  
George & Nat

Nat promised me an "adventure" and so led me down Tunnocks after excessive effort to push a load he'd last visited in 2014. He descended relatively efficiently and route finding was not much of an issue. The following changes were made to the 'champagne on ice' pitch series:

- Replaced sling at 1<sup>st</sup> pitch head with additional bolt to form proper Y-hang.

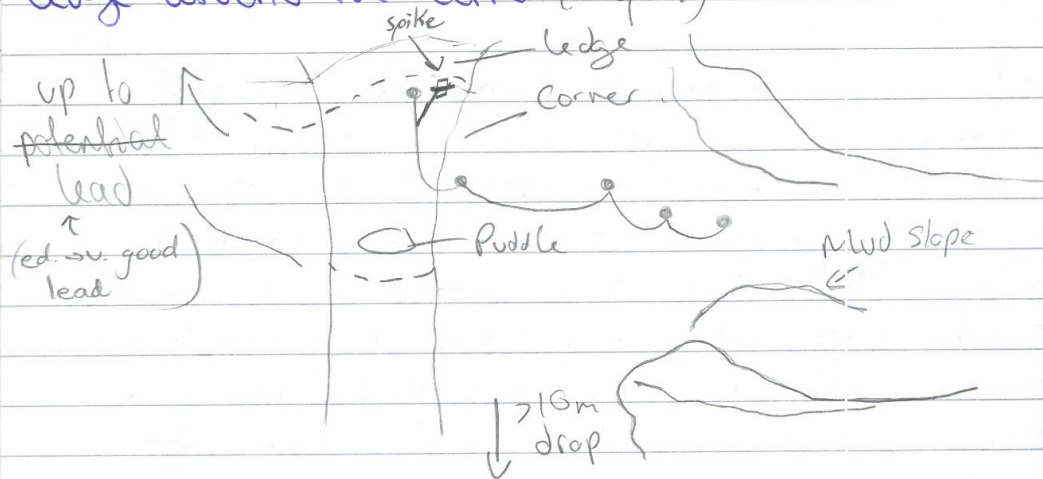
- Improved the traverse at the very end with the addition of a single bolt in the ceiling of the passage at the very bottom of the series.

Beyond this I rigged a P5, although it should be noted that this pitch is probably longer than 5m as an 11m rope was insufficient to reach the bottom. After rigging a pre-bolled traverse we soon arrived at the lead, a drafting hole atop a seemingly easy climb just beyond a >10m hole. The traverse required to get round the hole was somewhat more sketchy than Nat remembered. For a fully comprehensive recreation of the sound Nat made during the sky-hook-facilitated bolting of the traverse please consult either Nat or myself. 'What would your Mother think?' traverse was



rigged around the corner has a floor at the base of the climb up to the lead. At this point we turned back due to tiredness, cold and Nat being a big baby.

Thus far the traverse consists of 4 bolts ascending to a further 5th bolt up to a ledge around the corner. (+ spike)



Fri 1 July 76 - rigging plugged shaft Ollie + Jenny  
 Back into 76 to continue rigging. Ollie continued where I left off, starting the 65m rope at the ledge. This year we rigged along the ledge side, with a deviation on the Tot-Tubes side. This was a good success - it uses fewer hangers, is easier + quicker to pass and hangs better. Ollie rigged tightly - Re X-hang at the ledge below.

Ledge was temporarily a single hang with deviation - I was about to complain about the tightness of the rig when Ollie shouts up from Yesterday's Terminus that he has got to the end of the rope and could I feed Zen of slack through! I wasn't convinced there was Zen of slack rope in the whole cave let alone at this path. Anyway I converted the comfortable X-hang to a light single hang with deviation, then the rope just reached. We realised this wasn't very workable, but also a knot pass isn't good in a trade route rig. So we headed out to re-think.

Tu 3.5 hrs

Sat 2<sup>nd</sup> July 76 - Plugged shaft rope work Ollie + Jenny  
 We came up with a plan of staying with our one remaining 70m rope (29m) and shaft everything else down accordingly. Ollie needed a day to rest his knees, so I spent the day unknagging + re-tightening knots in Plugged shaft. On the second go I got the 29m to reach the second of the twin rebays (31m would be better). Then, the 65m reached Yesterday's Terminus (again a few m more would have been better). Then the 48m comfortably reached the bottom of Sailed shaft. I tweaked some of the lengths on my way out. Today the weather gods smiled on me, and I got my gear dry before the heavy rain started.

Tu 4.5 hrs

Sun 3<sup>rd</sup> July 76 - keg series Ollie + Jenny  
 Much better in Plugged shaft today, but totally passable. Got the Boulder Chouer + Ollie started through to dig Keg Series.

We were last here in 2009, despite me resurveying which appears  
rigged it on then I had no idea on the actual riggy details. Oly  
started from the Follow thru shaft - I had a go and  
concluded that was wrong. I also concluded that the  
original rig needed to its addy, was loose, and looked  
pretty dippy. So we decided to dig plan and rig down  
Follow through shaft, then to go down the adventures in  
Time + space route to the bottom of Keg Series (last ditch  
by us and Dave Goffin in 2005). Again we were keen on  
the rig.

I was happy that the frame had been left fixed at the top,  
and was only a bit dippy. Oly rigged down bracket for a  
over, eventually Andy a suitable device for the Aid lid. Last  
10m or so was dippy (but less bad with the device). I had  
a quick look in Razor ~~Adance~~ <sup>Adance</sup> while Oly came down. Keg Series was  
very wet + dippy, but Razor Adance was dry, so left the lid +  
string bit for and looked out. When I went to take it back just our  
Chris out.

4<sup>th</sup> - 6<sup>th</sup> July Turnocks, camp <sup>TJA ~~8 1/2 hrs~~</sup> Nat, Wookey &  
TW days 60 Chris

After a fairly restful previous trip with  
Haydon down Balcony (dropping honey drop) I  
came back to camp to find Chris attempting  
to recruit keen people to go to camp.

\*A\*

As he'd only managed to recruit a partially  
recovered Wookey I <sup>reluctantly</sup> volunteered to go down to camp.  
After ~3 1/2 hours I reached camp & set up  
the washing line (major task #1), Wookey & Chris  
set off to jette Tentacle Traverse whilst I caused  
havoc by spilling mushroom soup everywhere. After a brief  
scolding from Chris we ate dinner & went to sleep (i.e.  
creamy pasta with herbs & risotto travel lunches are very  
salty).

The following day we got up at 6.30am (!!!)  
& were caving by ~~10.30~~ <sup>10.30</sup> in massive phreas. Surveying  
continued until ~12.09 (an ~11 hour surveying day  
without significant breaks). We managed to generate  
more leads than we killed, bypassing a pitch Chris  
rigged, surveying tunnel sized passage & finding a stream  
(!!!); a greasy traverse above the stream was deemed  
to need a rope & we went back to the draughty  
draughty railway tunnels. After a scary <sup>(working time directive)</sup> slope (made  
harder by technical caving boots), Wookey & I started  
to grumble about dinner, after several more hours.  
we were finally allowed back for dinner. The following  
day we went & surveyed ~250? m of passage that  
it was unkillable (Hydra). After a few hours we  
headed back to camp to be met by Becka,  
David & a haggard looking Julian. 4 1/2 hours later saw me  
catch up with Luke & George who'd been down Chumpage on Ice.

Stm 55ly Balconhöhle - Hozer North.  
Signed, Andrew

After finding a promising-looking snow slope on a previous trip with Becker & Julian, and following an unsuccessful ~~surface~~ prospecting trip to identify ~~the secret entrance~~ the entrance from the surface Andrew convinced me to accompany ~~me~~ him on a trip to dig our way out from inside.

It was very cold & unsuccessful. Andrew finished off the 55m rope that had been left from the previous trip getting to the top of the slope where a further few metres of digging in the snow didn't get anywhere. Another 17m rope was used to traverse from a rock ledge into a passage in the ceiling but that closed down and the rope was left in situ.

6<sup>th</sup> to 7<sup>th</sup> July Tannocks Camp: David, Becka, Julian  
~34hrs <sup>TL</sup> TL 36 hours 152

We got to the entrance at 10:40 am and started the long descent leaving behind a plateau ~~to~~ asleep ~~in~~ under a blanket of clay. Down we went, accompanied by a backing track of grumbling from Julian. He was clearly enjoying himself.

Krachen was as big as promised and we made it to the camp at about 4:30 pm just as the previous team were coming up octopusy. Nat bubbled with excitement as he described what lay below. Wokey sketched out a plan of the leads they had found - our survey being ~~as~~ missing some 800m of passages. The only bad news was a shortage of bag roll having been promised there was plenty! Fortunately we were able to separate Nat from his emergency supply.

After some soup ~~it~~ as we descended ~~octopusy~~ a fantastic 5m wide steeply sloping tube. We then headed to our first A lead - a large kabe phreatic tube heading up a muddy slope. We followed this for at least 100m before it ended at the bottom of a downward slope where the mud filled the passage. This passage had some pristine white formations and excellent mud floors. A fine

start to our surveying.

We proceeded to explore the remaining known passages. Discover the upstream sump from which a small stream emerged. Julian spotted a large collection of dead 'cave lobsters' in the passage leading to the sump (washed into a muddy crawl during a flood).

This ended our first day of exploration and we made the tough ascent of octopusy. The mud makes the climb slippery and impeded jammer operation. On return to camp we set about making dinner and getting ready for bed.

After a relatively comfortable (compared with the night I spent underground a few days prior) and very warm night we arose. Julian & I were moaned at for our lack of enthusiasm for leaving our nice warm pits until after breakfast. However we were soon once again doing battle with octopusy.

We set off down our next A lead - relatively horizontal 5m diameter tube heading north. This passage had 2 smaller passages off the left which we connected back into known passage. The large passage ended in a reach a fault in the rock where a short pitch of a 20m would no doubt result in more cave. Having made

good progress (survey legs typically exceeding 20m) we started on another nearby A lead to where Chris's team had turned around. We followed more massive passage before reaching a chamber around a stone pillar some 10m across. Five ways lead off from here. One passage sloped down to the sound of water requiring a rope another 2 tubes (only 2m in diameter) lead off upwards while the 6m passage took a downward direction after meeting another large passage from above.

First we set off down, the passage meandered before reaching a pitch on the order of roughly 30m deep, it couldn't be approached safely without a rope. However the real highlight of this passage was a living cave lobster! Whilst sat at a survey station I noticed it climbing up the wall, no idea where it thought it was going, or what it could be eating, but it could certainly move. My comrades took photos & video. The finish our survey by ascending the aforementioned slope leading to a large rift. The two up sloping tubes connected and lead to a 4m free climb which we left for the next party. We met the team in question at the camp whilst eating our pre exit dinner ~~at~~ (~4pm). A long prussick followed.

Rigging Daft Choice beyond  
Straight Choice ~~Exposed~~

2 July - Turnnodes - Champagne on lee

~~Becha, Frank, Peasley, Kately~~ ~~Frank~~

Becha, Andrew, Luke

T/U 12 hrs

A side trip with the drill back to the Straight Choice. Exposed <sup>bold</sup> climb that Andrew had climbed whilst I belayed back in 2010. The arête-high traverse wasn't too bad once you realised ~~the~~ where the holds were but definitely non-standard SRT. Luke + I then settled down to flagback whilst Andrew belayed a traverse across the continuation - the left wall of a p15 or so. This, again, was a fairly strenuous number to cross but he eventually gained a small tube on the left which bypassed the last few metres of the traverse. This was sufficiently tight that we dumped SRT kit + squirmed through to find a OMC and a OMB - hum, rather a let-down after all that effort. However, the B-lead on the left came up trumps + after some initial low crawling gradually widened to 2-3m & easy crawling with various minor side passages until we came to a wet oven. Climbing to the side of this, the passage improved to walking but sadly soon closed down. However,

climbing c3 up out of the passage on the left led to passages both sides. We surveyed left (passage on R, N side, was done by Frank + me on 5/7/16 - it soon closed down to a drafting dog). This led to a fairly complex breakdown rite. We finished after ~40 survey legs looking onto a fairly promising continuation. When we plotted the data the bottom of Champagne on lee p15 was only ~18m from the far end of the Daft Choice traverse which would obviously make it much faster + easier to gain the Daft Choice leads but on 5/7/16 Frank + I didn't spot a continuation from in Daft Choice & on 6/7/16 Andrew, George + Luke didn't connect when they rigged a parallel shaft in Champagne on lee.

5 July - Turnnodes - Champagne on lee

Becha, Frank, Peasley, Kately

T/U ~10 hrs?

Daft Choice 2

Only I had been to Champagne on lee before + Peasley hadn't been to Turnnodes so we toured to the head of Snow Theory on the way in + <sup>Peasley</sup> took a few photos on the way down. We all went ~~across~~ up the Straight Choice Exposed climb but decided to split up at the Daft Choice Traverse. Kately +

Leadley continued taking photos whilst Frank + I surveyed the ~~climb~~ passage on the right after the C3 described in my 2 July logbook entry + then the QM on the R near the end of the 2 July survey which we got a visual connection back to the end of the 2 July survey but ~~the~~ this needs tying in. Still some leads in there, particularly the one right at the end of the 2 July survey, + some draft. All met up on the pitches on the way out + I turned one of the muscovee pitches on Changoze on ice into a traverse to simplify the route (which needs a rigging guide, Nat! :))

Thu 7<sup>th</sup> July

76-Keg Sires

Ollg + Jenny

Headed into Razor Advance with drill, rope ~~climbs~~ + survey kit to see what happened next. On the way in we had switched the rope in Adventures in Time + space for the 72m - a few metres longer would be better. We also added a bolt to protect the traverse across to the rope up to Razor Advance (but there was insufficient rope to add a bolt up).

Followed the rift on, and it quickly became apparent that the rope was needed. Ollg put in a few bolts and we got further along the rift to a nice spot to descend, a Y-hang gave a lovely hang - this is an inlet into a much larger cross rift. Water comes out on the right part way down - it seems

likely that this is the Keg Sires water from the size + position. Pitch is slightly dips but not too bad in dry weather - who knows in wet weather. At the bottom is a huge block that has fallen from the roof. Way on is down stream in a canyon. We followed a stem level round some corners, got a narrower bit and a couple of climbs to a short drop that didn't look climbable. Went back to a higher level that had a piceallic wall and was ~~something~~ a separate passage. ~~Went~~ <sup>not</sup> ~~climbed~~ further, but agreed to a <sup>not</sup> climbable drop. Attempted to survey out, but after a couple of legs realised the diox2 wasn't properly calibrated (we discovered this quickly thanks to Andrew's advice to take the three readings of a leg in different positions every 20m). Gave up and exited.

T/U 10 1/2 hrs

Fri 8<sup>th</sup> July

171 survey

Ollg + Jenny

I'd noticed that 171 was a moderately sized cave on the floor that was unsurveyed, so decided it was a nice job for a rest day. To make life easier just to helmets, clothing + survey kit. We'd spent the morning successfully recalibrating the diox2 in the blue cave. Started at 171a and surveyed to 171b - a nice piceallic passage with multiple flights. A low bit in the middle. Continued a bit beyond the 'b' entrance, but decided to return to finish with our suits.

T/U 2 1/2 hrs

7-10<sup>th</sup> July Tunnocks Camp  
Mark, Anthony, Luke

Day 1

Descended lunch time and went down at a steady pace. Met up with David, Julian and Becha at the camp. After a quick brew we went off exploring. We headed to the 4m climb mentioned by the previous party's write-up. Mark climbed it and beyond the passage soon arrived at another pitch down where we could hear water. After that it was time to get back to camp for dinner. The night was pretty comfortable.

Day 2

Big day of exploration. First lead was the "short" pitch of 20m. A quick rig from Mark and it was Rm. Below a fine piece of passage led to a blind alcove. A smaller side passage led directly to a mud sump, the consistency of a blancmange. We christened this "The Wrong Custard".

Next up was a ramp just after the northern branch splits off. Luke took the lead and up we went! Some superb cracked mud floor at the top.

Then we finished off with a crawl at the deep pitch in Lobster passage. Mark put the first few traverse bolts in, then Luke took over and rigged the actual descent. A superb 45m freehand into a chamber. At the bottom was some very glutinous mud and a sump. An inlet passage led to an aren at least 20m high.

Day 3

We had breakfast and then Mark went up the boulder slope to get onto the rope... but couldn't find it. Anthony (our illustrious trip leader with a pocket full of surveys and notes) came up the slope prepared to point "the old duffer" in the right direction. But, he soon

realised that the rope really was missing. With our lights on full power we managed to locate it about 20m off the floor. Bugger.

To avoid wasting ~~a~~ a day, we decided to go pushing anyway. A rescue seemed inevitable but we couldn't do anything about it.

First up was a B-lead not far from the bottom of Octopusy. This went for  $\approx 140m$ , sloping down all the way to a very muddy conclusion. After this, Mark went back to camp (in case another party came down. Meanwhile Anthony & Luke took a look at the two pitches nearby. One (to the left) proved awkward due to a big loose boulder. The other (to the right) is in a rift and was easier to rig. Anthony took up the cruxes and descended down to a chamber/passage with two ways on. Either another pitch or an ascending ramp.

Those were left for another day. Dinner was calm and we spent some time inventing ridiculous games to pass the time in case of a protracted wait for rescue. "Soup snap" was one idea.

### Day 4

At about 11:45 we heard the first sounds of rescuers approaching. Soon after the welcome sight of Nat abseiling down meant that we were at last able to get out. An efficient prussik out, and everybody was back on the surface by 17:00.

Many thanks to all the EXPO members who organised a very efficient rescue!

T/u 77 hours.



2nd July.

2 hrs.

Balcon Hole

TWAT.

Mark, Ashly, Sioned, Hayden

Went down solitary drop after Hayden  
desire to do some fucking surveying  
after cool.

First tried to approach pitch from wrong  
direction after Mark's misguided directions  
from last year and Hayden being very old  
questionable naturalist. (Hammer and setter  
may have been left here!).

After continuing to the correct pitch Hayden continued  
to rig the pitch only to find that  
the hammer and setter was left at the last  
pitch. Ashly and Sioned retrieved this from  
the previous pitch while Hayden gathered  
some sizeable boulders from a ledge 10m  
down. That Ashly + could hear from the  
other end of Balcon Hole.

After rope and setter had returned Hayden  
dropped the pitch to approx 50m and the

first main ledge to continue the next day  
having heard cold grumblyings from the top  
of the pitch. (Who knows why?).

Ashly's Perspective continued below...

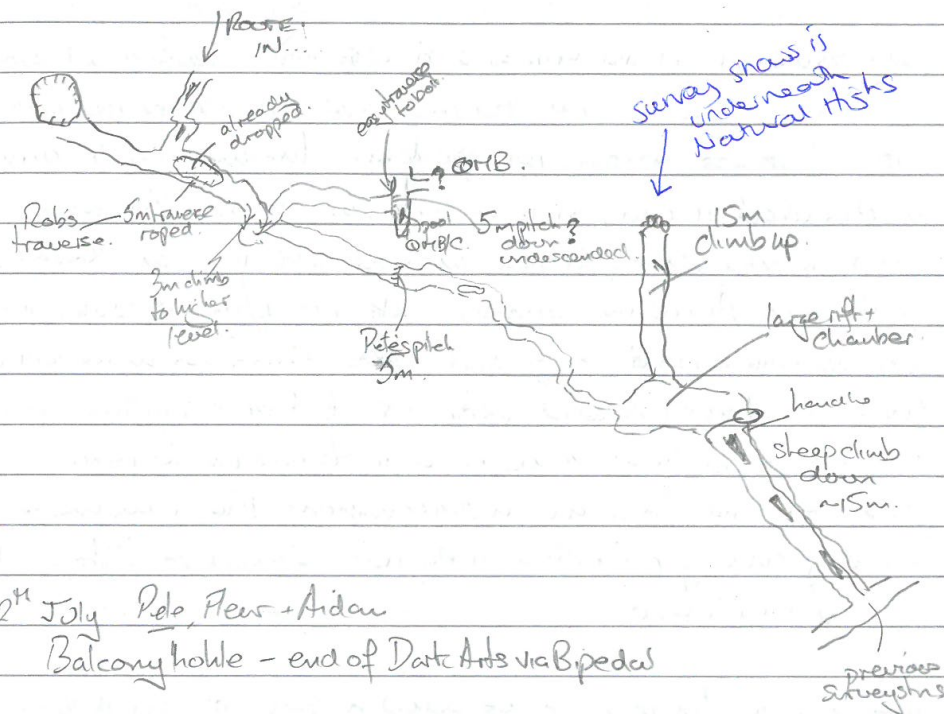
Ashly saw and Ashly retrieved the hammer  
and setter that some nupts had left at  
the previous traverse (aka Hayden) Hayden began  
his dodgy bolting down the pitch. In  
between, Mark saw and Ashly froze at  
the top of the pitch and quickly got back.  
So we decided to do some surveying practice  
down a side passage of loose rock.  
After going up or using a PIA in  
a right hand in the arse we continued to  
freeze our tits off at the top of the  
pitch. Eventually the cunt (Hayden) returns  
from bolting down we use all 6  
heave this stupid pitch that will be the  
end of me.

11<sup>th</sup> July Pete, Fleur + Nathan (+ Andy A)  
 Balconyhöhle - Hiti-apti "ROUNDABOUT SVX"

Pete + Fleur's first caving trip of 2016 exp - to a lead in Hiti-apti following a tip from Rob Watson et al. We rather enjoyed the Hiti pitches, where we met Andy Atkinson. Nicely scripted phreatic shaft action, top north. Then we went to Boulder chamber down some sandy tubes, and arrived at a pitch that Rob had free climbed across. We put a rope across, and found two possible ways on. Pete bolted the more obvious way on down a 5m pitch, whilst Fleur + Nathan survey up a 3m climb to a higher level that also stopped at a pitch - which was left un-descended. It is a reasonable lead, probably only 5-7m pitch, with a traverse (3 bolts - easy) to a continuing small phreatic passage.

Meanwhile, the team assembled at base of Pete's pitch, which carried on as a small rift that descended + carried on for ~50m to a larger rift-chamber. Then a very nice 3m wide descending phreatic tube was sped + looked very exciting. Nathan just free climbed down it, whilst the others put in a handline. Unfortunately, Nathan found a survey station - so this must connect back. Back in the chamber above, another clean washed phreatic tube headed upwards. Nathan climbed that to the base of a choke,

with the others following to survey. Then back to the ranch for tea + medals, or at least a curry.



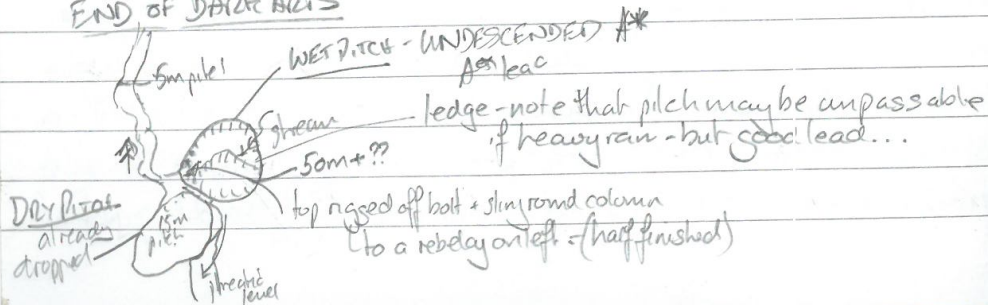
12<sup>th</sup> July Pete, Fleur + Aidan  
 Balconyhöhle - end of Dark Arts via Bipedal

The first aim was to do Bipedal traverse, which was soon despatched by Fleur. The 40m rope was then taken to the end of Dark Arts. There was some climbs and traverses along Dark Arts, including final climb that stopped Fleur + Pete two years ago. The new end was down a short 5m pitch and looked rather good - with a strong + exciting draft. ~~The pitch~~ The dry pitch on the right had been dropped, so Fleur started bolting the drippy shaft

on the left. At 2pm the drips sudden became a waterfall onto a ledge - so the team headed out rather nervously wondering about the entrance pitch. Sure enough there was <sup>Tob</sup> of water and rumbling at the entrance pitch. To hom. The forecast was for the amount of rain to increase - so that made just sitting it out tricky. After watching the water for 5-10 mins they decided it was not getting worse, and Pete loaded up. The pitch was very drippy but fine, and the team were soon at the top. Aidan had some excitement with his central mallet and did rather well. Indeed, it was sunny when they got out & walked back to camp. Very nice. But at 7pm there was a large storm that blew rain into the upper regions of the bivvy. The other team in Balconhöhle that day were not so lucky and got flooded in by this second rainstorm for a couple of hours.

Note that the flood pulse we saw at end of Dark Arts was <sup>almost immediately</sup> at least 2 hours after a short period of rain <sup>(+ storm)</sup>. ~~Either~~ may be a delay. It is an A<sup>10</sup> lead with draft but needs dry & settled weather!

### END OF DARK ARTS



6<sup>th</sup> July Balconhöhle - Alice, George, Rob

→ Hilliapfenby, surveying Northern Straight

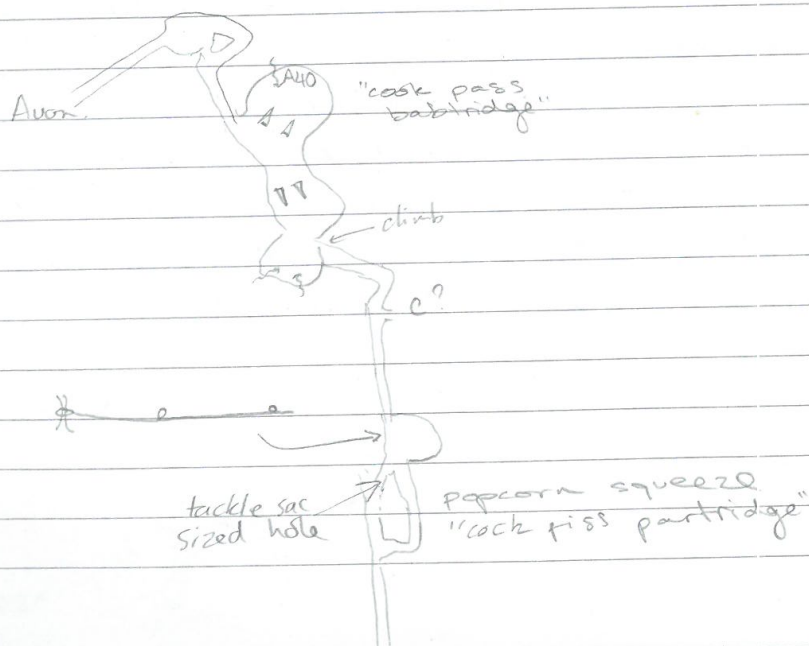
My (Alice) first surveying trip. We started at where myself, Katey and Rob had had a nose around the day before. George and I started surveying while Rob went ahead to rig a traverse further ahead across a pitch ~ 6m. The larger passage continues to the right into a tight ~~porosity~~ squeeze which brings you out onto a wedged boulder which prevents you from falling down the pitch.

After a lot of contorting, Alan Partridge references started blossoming from Rob and George, which ended up becoming some of the names for bits of passage.

The passage is continued to the north, with a c lead looking fairly small, muddy and miserable to the east, and the main passage continuing to the west before reaching a massive pillar and a short climb down into an avor, which eventually becomes enormous (40m up on a disto shot onto a ledge - actual roof probably higher) with a cobbly floor which climbs up to a small passage which leads up to a small chamber with a choked floor. When surveying this section, a leg

was shot straight across, followed by one which came through another entrance to the chamber. An extra survey station had to be added in between the two (2m apart) to connect them - which made boots nice and confusing. From there, a leading rift went up to the right, and a passage continued up a 45° slope to the right, finishing in an avon (Rob said this has now crapped out).

All in all a good trip ~200m surveyed.



Sat 9<sup>th</sup> July 16-JB-01 Höhle der Guten Hoffnung Oly + Janis  
 Intended to go back and finish surveying (71), so took overalls, knee pads as well as helmets + survey kit. Oly wanted to try a different route to walk there, so headed past 2006-70 and up from there. I saw a few shafts and had to have a peer down each one. The local high point was an especially interesting hole. I climbed down the 3m climb into the snow filled stake hole, at the S end a key hole passage led off. I followed the top side, in lovely solid clean white rock, down a couple of climbs + with a draft. Very exciting!

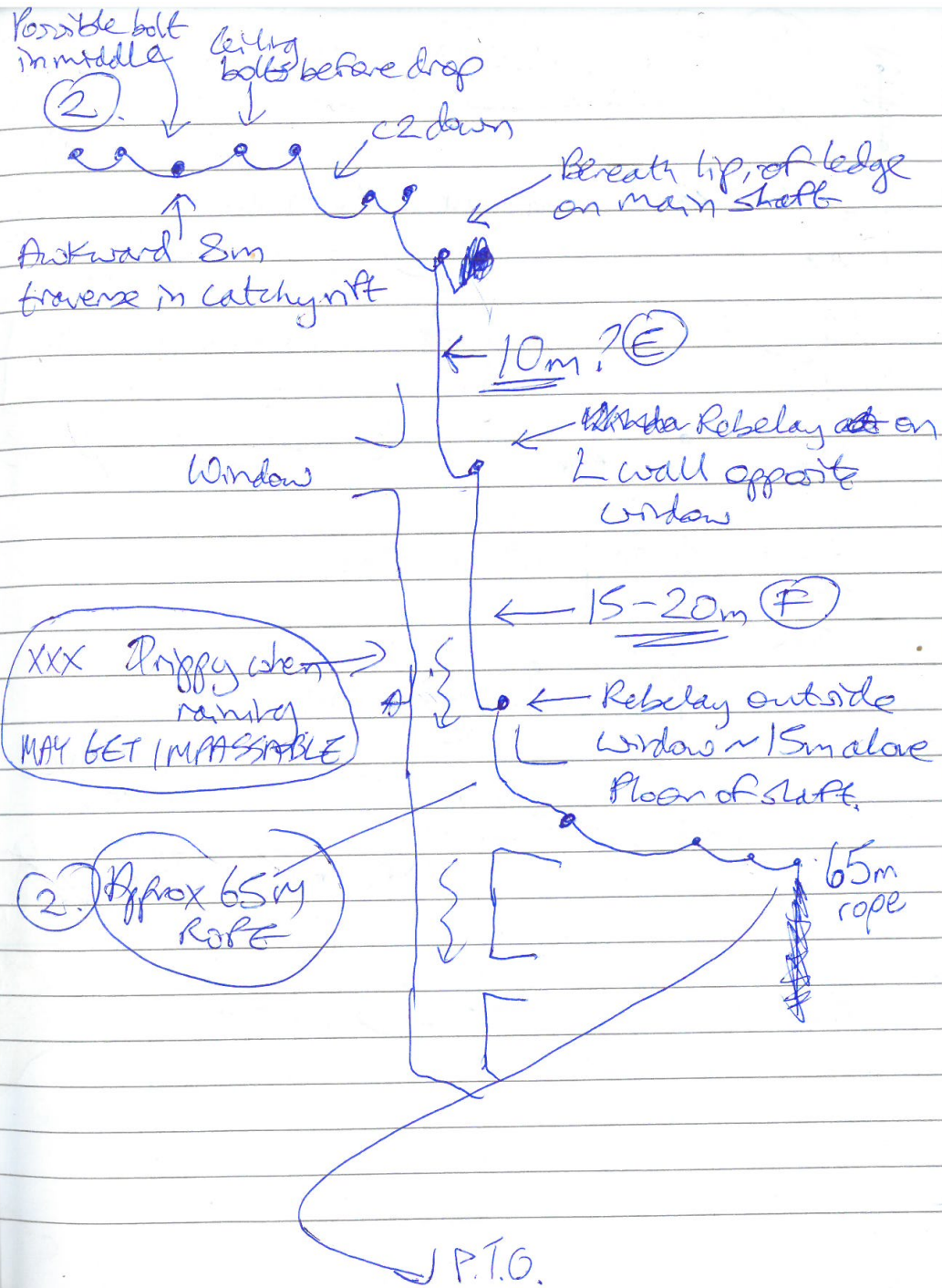
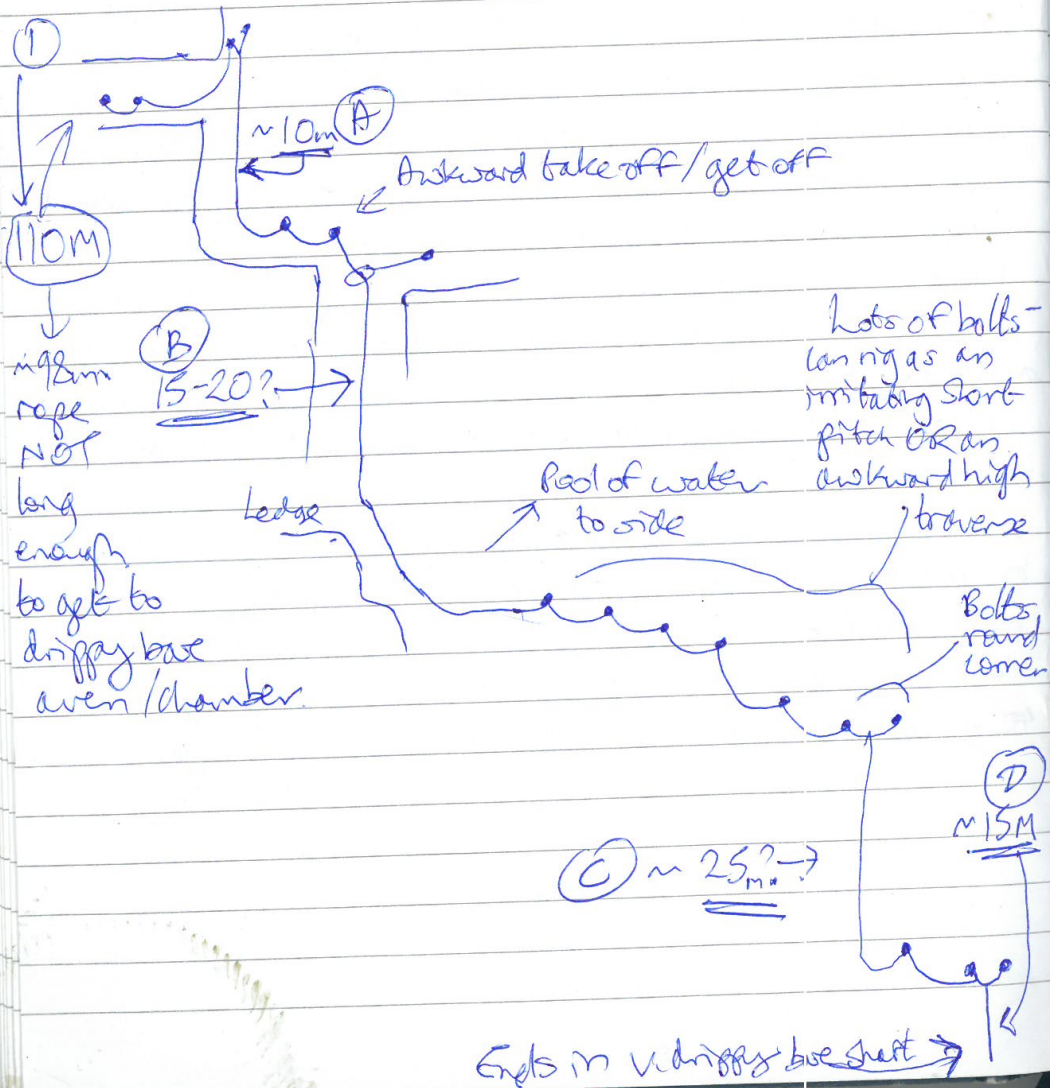
I went out to get my overalls, knee pads, survey kit + Oly. We returned and descended a couple more climbs. This reached a harder climb down to a ledge overlooking a large chassy chamber. Oly traversed round to get a better look and realised this was also free climbable.

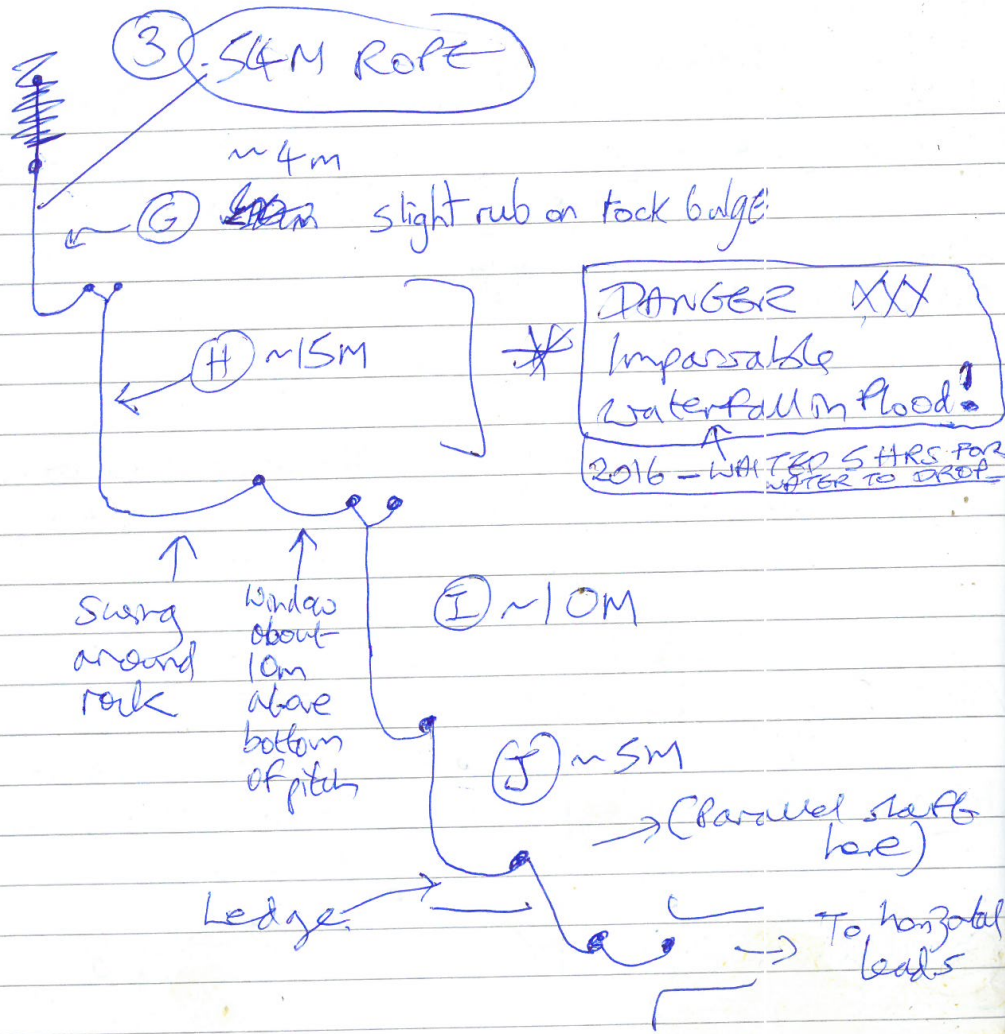
The chamber was drippy and full of loose rocks. Down a climb to the bottom and led to a squeeze overlooking a dirty snow plug. Brief at the climb a pitch goes back and forth - this is undescended. Surveyed out. Cave drops a surprising 40m (over 80m of survey) all with descended without gear.

T/U: 3hrs

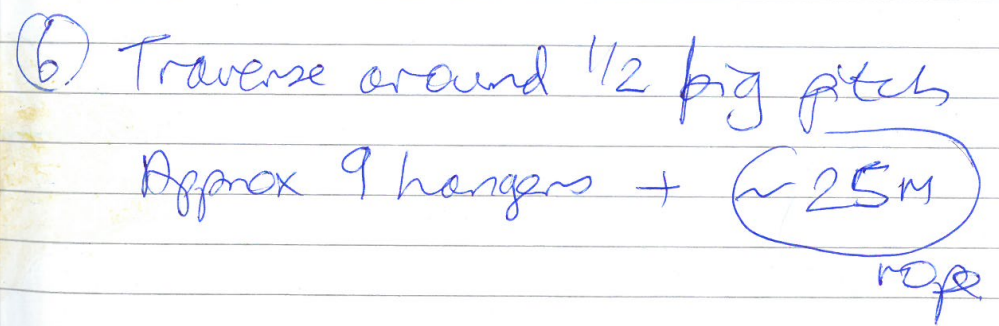
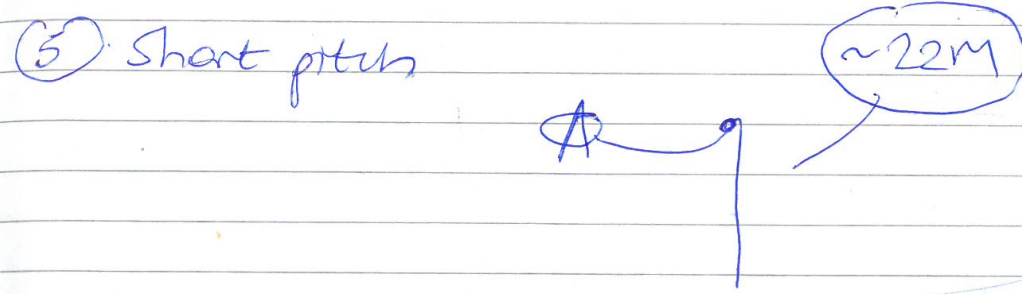
See (XXX) Flood Warning Becka + Nabhanwal  
 CHAMPAGNE ON ICE - RIGGING GUIDE 2016

(1) Starting from climb down at Petzvat junction  
 (to avoid Knot 2 pitches from Hedonism Highway road)





END OF MAIN PITCH SERIES



Tourist trip in Balcony and American Independence Day Celebrations 4/7/16

Rob, Katey, Peachey, Ellist, Nathan, Alice, Frank.

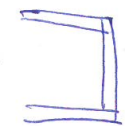
There was no colt to crow for the momentous day of independence for the country served by K. Bender, but fortunately Denham did wise at dawn to fall impressively before camping. We waited for Elliot to get back from retrieving his thermal from the car before going underground, I delivered plenty of fall ourselves underground by 3pm. Went to Haydon big pitch whilst looking at leads still to be pushed en route. We have: Natural Higher Pitcher & P.7 Pot mainly, along with possibly something at the end of Bipedal Traverse. We arrived at Haydon big pitch & were impressed. Then a fast team of Rob, Nathan, Ellist & Katey went out while Alice, Frank & Peachey took photos. TM: 5 hours.

Katey did him the Star Spangled Banner on loop all day in some kind of patriotic trance.

I also dropped my tackle bag down a pit so was duty bound to retrieve it the following day.

# 2016 TOLL-ROAD ASCENT

Start-



Arch by boots just past ski lift station

< 25% Seelake 1000m, 40% Kelp to 6, 60% ~~down~~ double  
hump sign + vito lose track, < 80% "Sisi" Kellen sign sign

RunA - "Lattegnd" thing at start of upper car park

- |   | Time   | State | Weather |
|---|--|-------|---------|
| ① | Wed 22 June - Belva - 52m 05 - 2pm - HOT"                                |       | 100%    |
| ② | Thurs 23 June - Belva - 50m 525 - 7pm - 0ht =                            |       |         |
| ③ | Fri 24 June - Belva - 49m 555 - 8pm - Good Temp                          |       |         |
| ④ | Wed 28 June - Belva - 48min - 8pm - Good Temp (Stopwatch failed, no SAS) |       |         |

Balcony - Batteries! finishing off & bag retrieval.  
5/7/16 Rob, Elliott, Nathan.

A day of tying up loose ends and transporting equipment. Went & rigged Batteries! & surveyed it to a conclusion. About 50m in the back ended in a too tight slube heading down. In common with other passages taking water in Balcony there was very little development. We then went & retrieved my tackle bag which required a 15m pitch to be rigged. Y long off 2 natural (thread & big column) with spike deviation. Another immature clean washed over. Drippy. Then left the rigged Batteries! rope at Hilda's Plenty for rigging that. Bipedal traverse still rigged. Out quickly with drill & bolting Mt. T/U: 6 hours.

Sun 10 July 171 survey trip Ollie + Jenny

Headed to 121 with assistants + kneepads to finish the survey. On planning basecamp, discovered that the camping team were overdue, but that things were in hand, and there was nothing we could do in the short term. Took the phone with us to get updates.

Started at 171a and surveyed down to the final daylight entrance. Heard the rescue helicopter, which worried us, but no message from basecamp, so we continued. Went down the wide but low + break-downy side passage. This continued to pop out 2/3 of the way down a daylight shaft.

Headed out after surveying, and failed to identify the daylight entrance from the surface - it must be a narrow gully by the surface.

Headed to 171b and surveyed with along a slightly drafty passage - this is a side tube, small and ends at yet another daylight area. This passage is a parallel rift on the left with a snow patch and another daylight area. There is a small passage doubling back here that we didn't thoroughly explore, because we assumed it would be widely covered. The passage finally ends at a low drafty (and) ditch. Looking at the survey shows this is very close to the end!

Got a text message reporting the camping team ~~was~~ were safe which was a relief. Ollie cancelled our callout (by phone) which unfortunately didn't make the call out back. So team rescue was effectively cancelled. Came down to our camp to check we were safe - Thank you!

T/U:

Mon 11th July

76-Atomic

Ollie + Jenny

Ollie's knees were recovered enough to cope with prussicking, so we returned to bag series with the new happily calibrated distance. Started surveying in to get the pitch done, in case it rained later, or it took a while. Happily got it first time and in 1 bag.

From the bottom followed the stream to the drop, and Ollie rigged down. IMPORTANT: this hilti is not properly set & it'll've marked a nail patch slash across it. If anyone goes there again, please set it first, or else in firm light (probably better).

The rift continues beyond this, ~~then~~ at stream level it is high, but high is much colder - shortly the roof drops down to the wide level, and it becomes



The phreatic roof was of a very tall keystone passage. Blogged following the when it reached some loose looking patches rocks above a dike. I retreated, and worked along at stream level, upon a drop + through some bits narrower than my helmet. Reached the base of the climb I'd looked down on, and ascertained that it was climbable and the rocks were well wedged. Climbed up to get the survey kit + Oly. Again followed ledge above the stream until the roof dropped down, and we reached another drop. This was wider but not freeclimbable.

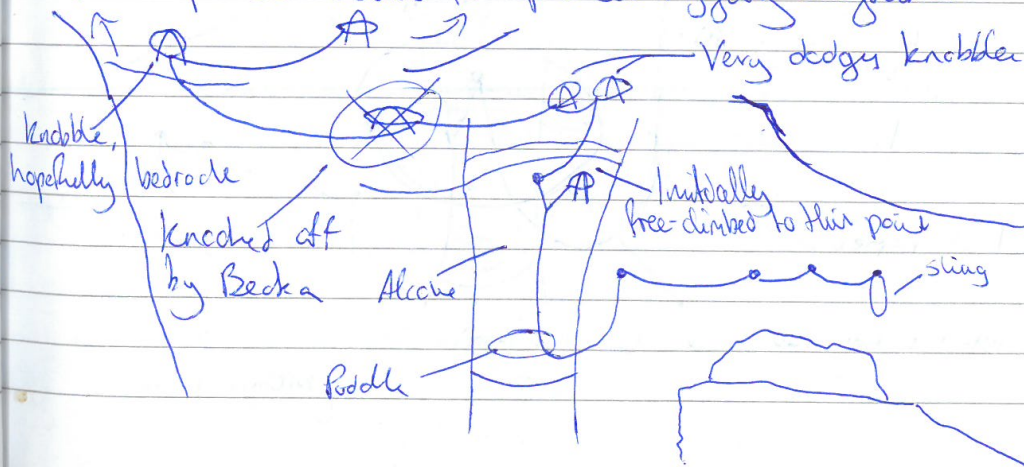
Surveyed out. I decided to keep Series and left that roping at the Tap Room. Took the dirt bag all the way home.

As we were ascending below Through Shaft, we heard a low rumbly noise. It sounded like people coming - I wondered if we had a rained mix up, and people were coming to rescue us. Then the rumbly got louder, and louder and it became apparent it was raining. Fortunately we were past the Tap Room + Keg Series, so had a unassisted

12<sup>th</sup> July 2016 Derigging and pushing Champagne on ice - Tannochs / George, Nat + Becka 7/11/2016

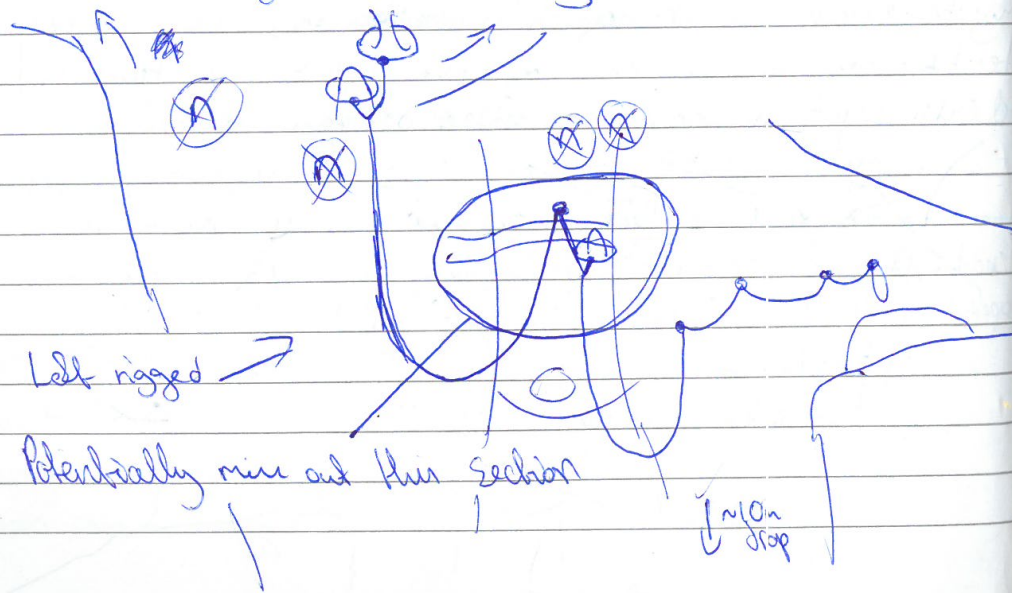
Set off with the intention of de-rigging traverse beyond Archic Angle and pushing Nat's lead (what would 'our Mother boy?'), before finally de-rigging the champagne on ice pitch Series + de-rig traverse between Archic Angle and WW4MS. Off to a flying start I forgot both drill batteries, only realising at the bottom of Champagne on ice. Subsequently, myself and Becka went to replace slings on Andrew's traverse past Archic Angle with rope cut from excess length of the existing rope + salvaged a

couple of hangers from the traverse. At ~14:30 we went to meet Nat to see if progress had been made on his bolt-less bolt climb. WW4MS is easily found by bearing left at the 1<sup>st</sup> junction after the PS (Probably longer than 5m). ~~Followed~~ The way after this is carried at Maser Junction and involves a traverse around a large ~30m hole. We discovered that Nat had bravely / foolishly already reached the top of the climb some 6/7m above the traverse previously rigged on another trip. The new rigging differed in that it comprised completely of extremely sketchy natural with not a bolt or reliable belay in sight by virtue of my forgetting to bring drill batteries. We tentatively followed Nat to the top of the traverse / deathtrap - see below for updated rigging diagram:



From the top of the climb, following the draft <sup>(drought?)</sup> back to a 2/3m climb down, continuing evergreen into large hanging rill and good 'a' lead requiring rope to carbine further. The only other alternative passage atop the climb back to a large over (very drippy at far end) with stream descending 10-15m through hole in the floor (?c)

On the descent, after having surveyed as far as possible, Becha knocked a fairly integral natural belay off the wall with surprisingly little effort. As a result the rigging was modified to allow me and Nat to get down 'safely', see below:



To avoid monumental clusterfuck this was left rigged but using the rope to ascend beyond the bolted traverse should be done so with EXTREME CAUTION or not at all due to the nature of the natural it is backed up to. Rather cold and glad to be alive we began the return journey, derigging the traverse and PS on the way. Upon arriving at the bottom of champagne on ice pitch (~19:00) Nat reported hearing a flood pulse. At the bottom of the 15m hang we encountered a waterfall not previously reported that rendered the pitch impassable without getting soaked. We waited ~5 hours in bobby at a ledge below for water to ease. Eventually prossicked out when flow was weaker but still involved briefly swinging under very drippy section. Higher up was still a bit drippy but not too unpleasant. Everyone out of the cave by 03:30. Several empty buckle sacks were left below the wet section + one full sack. Drill was brought out with some hangers.

Nathanael should not be allowed to rig unsupervised in the future.

## Tunnocks carrying gear to get to Oxford/Chris

1. System Nicola: Black pelle case at Steinbrucken  
Yellow pelle case at Base  
Blue box with spare wires at Base
2. Camp gear: 3 gas stoves at camp  
~~2 pans~~  
7 Alpinex style undersuits  
(3 at underground camp, 4 at Steinbrucken)  
2 Daron drums at camp

Gear suggest to leave in Krakas:

- 4 koozies
- 2 pans
- 4 cups + spoons
- radio antenna wires

Disto X in Grey pelicans - callout box.

Martin Green to bring KIT back.

## Hiltia Plenty Exploration (several trips). <sup>all</sup> Rob

1. Rigging Trip - Rob, Alice, ~~Rob~~ <sup>Lately</sup> 6/7/16

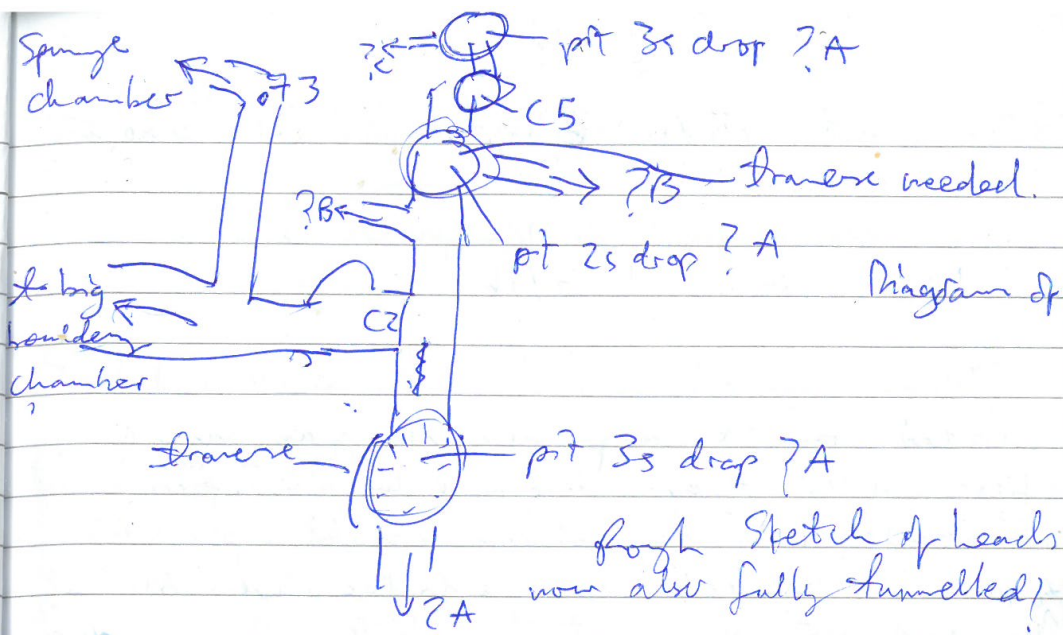
Underground by 11am. It being Alice's first expo, we wanted to give her some experience of rigging in Austria & this seemed a good choice being close to the entrance, quite deep but not too deep and promising quite a few leads to push later. Alice rigged very well - safe, tight, high & functional rigging all round & efficient too. Once at the bottom, we decided to have a look around at the leads & what had already been surveyed. First we went left from the bottom of the pitch series to a small bouldery chamber, from there we went left & along a slightish passage to a draughty area. Quite a promising lead via a traverse over the area & into a small phreatic sandy crawl was left. Then we went back to the small bouldery chamber and went up a vadose ramp to sponge chamber (4 pots in a row), then back to find some excellent mud formations. Then back to the bottom of the Hiltia Plenty pitch & turning right to the large bouldery chamber with many leads. Having pushed for another day, we then headed out.

T/U: 6 hours

2. Surveying Cock Piss Partridge. Already written up by Alice Smith 7/7/16.

3. Dropping pitches & finding more. 8/7/16  
Rob, George & Frank for a bit.

Frank brought his spade/shovel along in case of digging potential, but unfortunately his then prevented him from achieving this. Then me & George went to the pitch down the sandy ramp & climb. I batted the pitch & put George on back. It turned out this was a bad idea. 14 legs of slit later we derigged & left for Spongy Chamber. We tried to find survey stations but they were not especially well marked. We found station 7B & got started. Turning left at the T junction we passed an aren on the left & down a 2m climb to 5x5m boulder passage. Excite! First we went right down. Will do a dipping pitch, which could also be traversed to a continuation beyond. Then we went uphill of a pit which could be dropped (pretty draughty) or traversed over to the right for another horizontal continuation. We did a bit of an exposed traverse to a straight on head, & heading up a 5m climb to an on uphill ramp to a big draughty pit. Around 150-200m in the hole then out. TH: 9hrs



4. Annoying Recovery & no Cashback. 8/7/16  
George, Rob. (Pitch is now called Young Love)

After discovering lots of easy horizontal passage the day before, we returned to get that sorted. After a long leg, we popped out in the big bouldery chamber. We later found out that Nathan had surveyed this ~~passage~~ passage - quite annoying. Then we went to bat the pitch at the end of cock piss partridge - pe - emptively named cashback. Cashback appeared to be a premature prediction as the aren crapped out into an imathreander immediately after we got to the bottom. George then batted the pitch below the Cock Piss Partridge, which also crapped out immediately.

Then out. T/W: 6 hours. Still lots to go it!

The Non Rescue - 1st Response Team.  
Nat, Rob. 10/7/16

Team were overdue in Tunnocks so we and Nat headed down to Camp with the grab bag & first aid kit ~~to~~ underground by 8:45. Arrived at Kraker for 11:45 to find rope caught up beneath the overhanging overhang on a ledge. Then started ~~heads~~ out. Rope at the bottom if magic glue got wrapped around a large boulder - be aware of the rope catching on the boulder when you ascend the pitch. Out reasonably efficiently after waiting to see that Mike D could untangle the rope from Magic Glue. T/W: 7 hrs.

Camp - Tunnocks Hunter Cave & Unprecedented depth potential! 11-13/7/16

Chris D, Rob, Peachey, Katay.

A most amazing trip, which despite being shortened by the rescue of the previous day managed to provide much new cave and

Dark Leder von der Erde

a slot up new prospects. We arrived at camp for 11:15 and ate some woodies and soup. Off down octagon for 2pm. Headed to the bottom of the 30m pitch below my Antony et al on the last campy trip. After a quick recon of the area we split into 2 surveying teams. 06/07/16

The Pitch Formally Known as 'Hayden's Pitch'  
→ 'Long Drop'

Elliott, Peachey, Nathan

Sorry for the write-up delay!

After Hayden had headed down the N.H, Nathan, Peachey and I took over the 'project'. Hayden had said he had dropped ~60m to a large ledge, before getting a 6 second drop off it! Of course, we didn't believe him.

We bid up the initial traverse, before Peachey went off to get holbrog. As Hayden's team (R. Wzy, good-poor-nothing \*!?!#\*!?'s) hadn't surveyed Squat, Nathan and I got on with it. ~50m to the 500m ledge, which then forms the take off to a >120m pitch! Balcony has some surprises yet...

From the LHW, a short traverse takes you to a pitch head paper. ~25m down, walking towards the right, a good sized window

gains entry to 'ICU with a View'. Chock Stone provides a chossy floor on which to stretch up a belly.

I found Peachey in the ICU, leaving a good quarter and looking slightly taken aback by the scale of things! After re-supplying him with KTB, he set off down a rift that leads the ICU from the North. Mysterious hollow from Peachey saw us ~60m further down a lively series of subclays. The pitch follows the RNV (looking from the ICU) pulling you away from the inlet, pretty loose rift. The passage is ~4-6m wide, but runs N-S from the main shaft, towards the North for ~80m?

Peachey had got cracking on the next drop, but we ran out of lungs & rope.

N.B. MS actually occurred over two days!

T10 - 17  $\frac{1}{2}$  hrs  
(total)

Tunnocks Master Cave Camping Trip contd.

myself & Chris initially headed in a Northward direction into a rather nice & very pretty chamber with a number of very nice stalactites & a wonderful poached egg on the floor. On the far side of the chamber was a 7-10m climb which Chris started but then encountered too many delicate calcareous crusts/flaky formations to continue. Predicting that we might well drop into the passage from somewhere else anyway, we left it behind for another drop (which there hopefully will be, a lead ramping up heading North & strongly draughting in Tunnocks is not to be sniffed at!) Then we headed on toward where the others were moving in the other direction. Chris soon decided that if we came ahead we could easily back away to them and thus avoid the browned upon sloop - little did we know of the wonders that lay ahead. After a bit of sprinting along a muddy boulder floor (with an additional handline ~~on~~ a particularly treacherous <sup>inward</sup> slope that Peachey & Katey descended with nothing - waghly!) we arrived at a point where we were prevented with 2 routes - a narrow slot up & a way down among boulders. I took the slot, but before that we noticed that both routes had

one thing in common - we could both hear a massive amount of water up ahead, of a magnitude very rarely found in this cave system. After coming out through the slot, what I saw was just incredible - the absolute essence of why caving is such an amazing exploratory sport. An absolutely huge passage, at least 150m wide for height, and ramping steeply down at around 45°. For those who have been to Otago, think slightly less aesthetically pleasing in terms of the boulder shape but overall far more impressive. The roar of the water was by this time truly immense - similar in size to Pungwa's streamway. Caught up with exploration fever, Chris & myself climbed a long way down the boulder ramp until Chris got a hold of himself & decided we were being unnecessarily silly and, the grip of exploration fever having ebbed away we surveyed back to the junction where we met Peachey & Katey. Almost unable to contain our excitement, we told them of our findings. They then headed off up a ramp in the opposite direction to see what could be found (apparently a lot of passage) while Chris went to fetch the 100m of Antony's then so we could say this thing properly & safely - we were conceivably 300m deep & it was 1.5m change with nothing to, & soon we were down, albeit with a few annoying rub points en route!

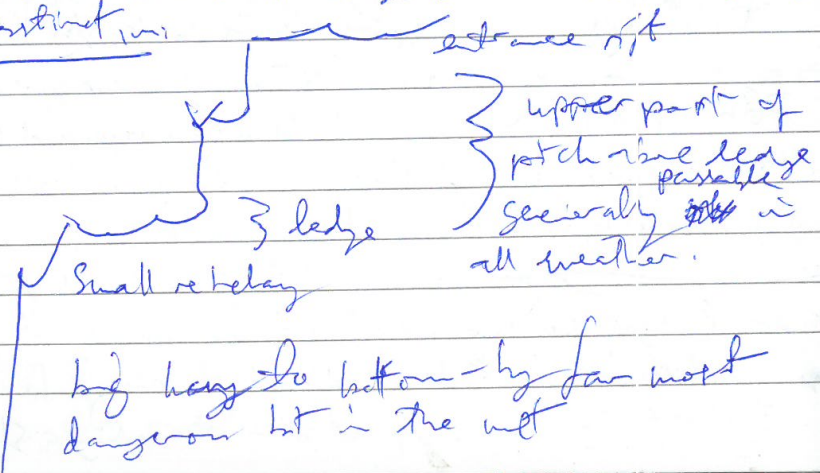
Riggery Top - int  
to scale.

rock very chert

After dropping this range we headed down through the slippery boulder slope below the water cave only to find the most amazing development at the bottom: an upward caving practice boulder 4x4 m and certainly getting bigger! by now it was long after 10pm & only getting later so we resolved to survive the scooped passage tomorrow & headed back to camp for a welcome tea. In bed by lam. Up at 8am & needing a shut - the

facilities are excellent! The camp overall is excellently thought out & organized. Many needles & oars along with a great water supply make for a wonderful stay. After breakfast, we headed back to the lead for a survey, accompanied by some excellent photographers octopusy & at camp. 2 hours of survey, later, myself & de-stumbled arrived at a steep boulder slope (Hippens) with no easy way down) which at this depth really needs bolting. Leaving for the next trip, we headed back to camp before attempting to head out & the cone. I unfortunately got to Procrastination at 7 pm just as a flood pulse hit the pitch I was at at the first belay when the pulse hit & luckily was prepared to change over quickly & descend back to being on The Clowns to wait it out for ~~12~~ 12 hours until we made a break for it at 8 am the next day after a rather restful night.

Rowan's sketch:



After making a break for it after a big 12 hour wait, I was finally out for 10 am to meet with Luke & on the last once series. Overall a truly memorable & excellent trip, one of my best ever & one to remember my whole life! T/U: 48 hours.

Hilti a Plenty - Pushing & Evening Breakthrough

Robs, Luke 17/7/16

After a morning of grain rain delayed the campers from campfire, myself & Luke became bored & shut talking & card games & headed off to Balcony in the mist to see what could be found. In quickly & soon I was bolting one of the 3 pits that me & George found in 'lets be Appally' last time in. After a wee while & 2 rogue bolts which decided to fall out along with some of the wall while I was setting it, we were done. It was pretty drafty & seemed quite promising. We could see a shut looking crevice above rift in the floor below where we had hopped off the rope with some water in it. Not so promising. An upper continuation of the rift with a big draught in it was left - I believe it links in with the most northerly pitch of the 3 we found in 'lets



be Appalling'. To the south of the pitch was a significant warren of nice sandy floored passage ramping down - great leads! After a quick scarp, we got on with surveying as much as we could. We pushed some large passage to a pitch lead which we left for another team to push. We then headed south to find the drippy west southerly pitch in 'Let's be Appalling' - traverse across still to be done but not as promising as the pitch from earlier. At the bottom a small streamway flowed out culminating in a too tight passage with what appeared to be a mud bumpy at the end. We then went uphill on the camp rather than downhill & found a promising horizontal B lead - continuation of the camp - & a climb up a pneumatic tube in which the sound of water could be heard. Exciting stuff, & judging by the survey heading off in an as yet unexplored direction - an excellent prospect for next year! T/U: 6 hours

Long Drop - final <sup>push,</sup> survey & Dery 18/7/16

Bob, Anthony, Ash

After a rather late start to say the least (~~Anthony~~ <sup>Anthony</sup> ~~seen~~ <sup>seen</sup> to have a way of starting far too late when we came with me another), I arrived at Balcony gear dump (having shown the Hilti a Plenty leads found the other day to Pete, Elliott, Aiden & Martin beforehand) at about 3pm. We then headed to the bottom of Long Drop, where kit was sorted & we all got to business - Anthony getting what was to be the final push along a traverse in a drippy aft, with Ash & I catching up on the survey back log behind. The pitch is very impressive, and the ending to its story is something of an anticlimax - Anthony bolted around the corner & could see around 20m to the floor where the dicky closed down into an immature meander with water in it - seen that before! with it all looking rather shit, we decided to turn around. I sprinted up the pitch, having absolutely frozen my tits off despite wearing all my clothes (beez jacket!) while surveying. I sat in the group's shelter about waiting for the others, then we got the dery under way - a warm up paella for the big dery on wednesday in Tunnocks

Everything went pretty well, with only 1 intermediate pile before the top (at ICU with a view) and despite an extremely antisocial double fisherman right below a rebelay we got all the knots out & it ran pretty smoothly. At the top it was 10:15 & we were pushing callout, so I headed out (having) for while the others sorted things out. Back at top camp for 11:25, our midnight callout was easily made. Great success! T/A: 11.5 hrs (R&P); 12.5 hrs (A&T).

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16/7/16

Kaken camp - pushing song of the earth (258)

Michael, Elliott, Nathan, George

Down to camp

Being the 6<sup>th</sup>? Camping trip to Kaken, we supposedly had a lot of leads to choose from. Getting to camp was easy enough, there being almost twice as much rope as passage length along the way. Elliott, Nathan and George descending using Stairs were faster than me with my Rack, and we went underground at 10:30 am and arrived all at Kaken camp by 2:45. A brief rest and some noodles and we were set to go pushing.

Pushing

We went down Octopussy to the gear dump, Elliott bringing up the rear and replacing the 100m line on octopussy with a 50m one as the lower section was nicer by comparison. At the gear dump we ~~set~~ put together a pushing rig with drill, battery, hangers and such, with the now liberated 100m pushing rope. This was taken down as yet unnamed "Lute's Pick"

"Indian Rope Trick"

Coming to the start of Song of the Earth, we left the drill for whichever team needed it, and split up. Nathan and George took a pneumatic tube going upward, and Elliott and I went to find the deep end of Song of the Earth, hoping to push the cave even deeper.

Song of the Earth continued as a large pneumatic tube angled downward at  $\sim 30^\circ$ , heading almost exactly west. The floor was treacherous boulder chafe, covered in a layer of slippery black mud. After about 100m of similar passage, with the occasional rock arch or muddy helictite, it came to a large chamber  $\sim 20m$  high. The climb down into the chamber was tricky, but when there the black mud disappeared from the boulders. A depression in the floor looked to be the filled in way on. Striking round the depression and a large boulder pile showed two passages on the far side. The first was a short way to a solid mud sump that currently marks the lowest point of Tunnel at  $-903m$ , obviously impassable.

The second lead went to a small squeeze with a gravel floor with a howling gale coming through. Not wanting to stop there, we dug the squeeze until it was large enough to pass through (Don't Stop Me Now). This entered another vedose passage now heading upward and north east, obviously a different passage feeding the large chamber. We only followed this a short way because we ran out of time, and headed back to camp.

On the way back, we found another 20m had been tied to the end of the staked octopus rope. Apparently Nathan and George had found the rope a bit too short, and had spent 40 minutes digging footholds to get up to the rope. We were all back in Kaban camp by 10:30 pm.

### Falting

Intending to get up and do some pushing before heading out, we agreed to get up at 8am. However, it turns out we were all very good at falling about, so no caving got done in the end. It didn't help that Nathan and George capped out all their leads except ones that

needed bolt climbing, so the only viable lead (don't stop  
we now) was a 4 hour round trip from camp.  
Instead, we opted to wait around a bit to see if  
the next camping group arrived before we would leave.  
By 1pm no one had arrived (they had intended  
to have a 6am start) so we opted to go out.

Nathan went first, and just went hell for leather  
passing out, leaving George behind to also exit  
the cave alone. Not a clever move since  
Nathan was supposedly leading the trip. I came  
third with Elliott close behind, he being faster  
than me. In the end, we were all up on  
the surface by 7:30 pm, where we found the  
weather a bit grim and claggy. That was the reason  
the second camping group hadn't come underground,  
and indeed lower Procastination had been a bit  
drippier than usual.

Time Underground 33 hours.

## Some Thoughts on Sponsorship Application

- Apply early - preferably before November  
as this is the start of the financial year &  
companies such as Makita only have a limited  
number of ~~FOC~~ free of charge (FOC) products to  
give out as sponsorship.

- Expensive things (such as drills, stoves, camping  
gear etc) which last a while are a better sponsorship  
option than small perishables that need to be bought  
every year such as food (not to say that these  
things aren't worth applying for, but they will have  
money spent on them anyway).

- Make certain to mention that we have spent money  
on their products before, & provide specifics where  
appropriate - ~~see~~ Makita mentioned in their rejection  
email to me that 'the distribution of FOC products  
does not seem to have lead to an increase in sales  
in the past among cavers' which is clearly bollocks  
as we have bought 5 drills & 12 batteries from them.

- attach a PDF to emails to sponsors which is an  
expo report - this should be no longer than 1000

wards & include lots of pretty photos beneath (preferably photos with clear product placement).  
My suggested structure for this report would be:

- brief intro: who we are, where we go, quick history of exploration prior to this year, cave stats (length, depth etc).

- what we found this year: big camp, big <sup>passage</sup> ~~excite~~, big excite, long trips underground (mention that the camp was set up for 3 weeks with a team always there on rotation), extended Balkorhülle, 76 @ 1kg & 1cm

- what we plan to do next year: look for more of the marker cave (does it head toward Stellerweg?)  
So more campsite ergo more camping kit, more Balkor, possibly a prospecting (surface) mission for a few days looking for new cave toward Oganhülle (needing a new surface camp ergo surface camping kit).

- looks through the server for photos - they don't need to be from this year! People drilling, eating etc. Also some cool ones of camp, Octopusweg etc. Include a good variety of passage.

- Include a before & after survey to show progress.

- Include a link to the expo website at the bottom.

• The expo website ~~for~~ homepage should be amended to include a big list of sponsors with a 'Thank you' note that can be seen immediately.

• When writing to sponsors in another country (no UK office eg Travel Lunch) it is a great idea to do it in their own language - The Elaine Translate Tool is useful here.

• Alistair Humphreys (professional adventurer) has written a great guide to sponsorship application which is probably worth a read.

• Some companies eg Alpkert have written quite comprehensive guidelines on how they want people to present themselves on applications - this is definitely worth reading & considering.

• Present yourself well - keen, polite, friendly.

• be persistent (if they don't ~~reply~~ reply for a month then send a follow up) but don't be annoying.

• emphasize this is a student expedition training the careers of the future - quite a rare thing these days.

Please add to!

People to consider applying to for Sponsorship:

- Makita (bought 5 drills 12 batteries)
- Alpkit (underground camp, gear, stove, bivvy bags, warm jackets - David & Elaine own them: warm jackets, pretty much all of UKSA use their bivvy bags). Alpkit also lend out kit - talk to Peachey.
- Group shelter companies - doing a bulk buy, cave susceptible to weather etc. Lifesystems, outdoor designs & alpkit possibilities. Chris Jones (Peachey's car hire mate, former darkstein caver) has contacts at the parent company of Rab which might be worth asking him about - he has also been sponsored by Alpkit.
- Sella - pestos are awesome, they gave us a jacket in the past & probably will again.
- Tunnocks - really reliable, good shirt.
- Travel Lunch - bit salty but overall good & have a contact there now. Worth seeing if a full sponsorship instead of a discount can be had as there were pretty expensive.   
→ other brands exist

- Soup companies - Ainsley Harriott, Mung Bean etc.
- cereal/oats - Jordans, Dorset Quakers.   
Mamflake (have been sponsored several times in more distant past)   
→ Elaine asked in 2015 if it was a "no"
- Shower - caring gloves. Designed for use on or right & dead good! Not tried before.
- Kraken Rum - camping essential.
- "Lock What We Found" - ready food like The Currier, but lots of different types of meals.
- Stoves - for brew kits, camp. Pocket rockets, jetboils, pans, etc.?
- Group shelters - have a good story to tell after this year!
- Camp pots - Smuggpak - can we have another?
- Undersuits - camp furry suits?
- GPS units?

18-19<sup>th</sup> July 2016

Camp Krater - Song of The Earth + Camp  
Derig

Team: Katy, Elaine, Fleur, Ian

It was supposed to be a 2 night camp starting on Sunday. But on Sunday we woke up and it had been raining in the night and continued to rain. So we determined to avoid starting off cold + wet. Instead an 'alpine start' was called for and I got everyone up at 6am on Monday. We were underground by 8am and down at camp for a late lunch.

The idea was to try and make some good going leads in Song of The Earth. Elaine + Katy went to the downstream limit, supposedly drafting + blowing sediment in your face.

Meanwhile I agreed to belay Ian up the upstream lead.

As we left camp I was impressed with Chris + Anthony finding the way on via tentacle traverse - now a very slippery beast indeed!

Lucie's pitch down into Song of The Earth was much bigger than I expected, and perhaps a tad underbolted.

As we entered the master cave, Ian + I went "upstream" via the bouldery overhills eventually arriving at the limit of exploration. Ian was certainly correct that it was a promising location - having gale going uphill, and the boulder appearing to continue in a ramp translated higher up. However, it was a long way up!

Ian was efficient though, climbing up around 10-15 metres until the rope drag was too much, while I went through my song repertoire.

He then rigged a pitch for the first section while I took some photos. Then, after chocolate, we both went up the belay so Ian could climb the next section. This was mostly a ramp as opposed to a true pitch. Although Ian was efficient again (another 15+ m ascended)

I got very cold tied off to the belay. Unfortunately at the top of the pitch the passage got smaller, causing an an upstream canyon with trickle of water, belze finishing at an oven. Time to go home to krater.

By this time Elaine + Katy had appeared so

It was a quick survey before departure.  
The others had not had much luck "downstream"  
so it was ~~also~~ decided to dig the  
Master cave. I was very tired (+ Slave cord)  
so Ian + Katy did this while Blair and I  
looked the drill etc back to camp. We arrived  
back about 11pm after 15 hours carrying. The  
other two were about an hour to 90 min  
behind us.

The campsite was great and we passed a  
comfy night, are sleeping and not getting up  
until almost 10am.

It took around 3 hours to get reestablished  
+ pack up camp. We sent slave out first.  
Then me + Katy. Ian derigged kraken and  
we three packed up the Master cave + kraken  
reper in the base of Inferno.

[Note - Octopussy, Tectaco, Lute's pitch etc  
all left in situ]

I left the base of the Inferno pitches around  
5pm. Half an hour later Ian was shouting  
up about something ~~is~~ catching. He +  
Katy ended up derigging a little more.  
Meanwhile I prospected on, catching Slave

up ~~at~~ at the top of Shus Meery. We  
did the last section together and exited  
around 11pm.

Ian + Katy returned to Steinbucker about  
one hour after us. TU: 39 hours

### CAMP KRACKEN FINAL INVENTORY

18/07/2016

- spit driver, spits, cones
- Hilli setter
- hammer
- Full pot of Hillis
- blow tube x2
- 2 lanyards
- 4 carry mats
- 2 pens
- washing line (in situ)
- nail varnish x3
- Theron protractors, 2x small scale  
3x large scale
- 2 pencils
- UG camp first aid kit
- 4 Travellunch
- 9 noodles
- 1 package peanuts
- hand sanitizer
- 2 inches rum
- tent (in situ)
- scourer
- 2 survival bags (porch)
- drill padding
- metal knife (rope sealing)

- Octopussy + pitch to Song of the  
Earth left rigged

Stuff left at under ground  
camp →



## UNDERGROUND CAMP FIRST AID KIT INVENTORY

19/07/2016

- lighter x1
- headlamps x3
- Sharpie w/ duct tape
- pencil w/ duct tape
- waterproof paper x3
- Tuff kuts
- scissors
- nitrile gloves x8
- extra freezer bags x3
- eye wash tubes x2
- safety pins
- plasters x ~30, assorted sizes
- SAM splint (standard size)
- sterile wipes x8
- micropore tape, 1 roll
- steri strips x6
- 5x5cm swabs x5
- eye bandage x1
- tampons x4
- large dressing x1
- medium dressing x1
- ambulance dressings x2 (2+3?)
- trauma bandage x1
- drugs:
  - § - Voltarol 50mg x4, exp 11/17
  - ⊗ - Diclofenac 50mg x10, exp 02/12
  - same drug
  - Paracetamol 500mg x15, exp 03/19
  - 02/21
  - Domperidone 10mg x4, exp 10/13
  - Loperamide 2mg x4, exp 12/15
  - Aspirin 500mg x4, exp 03/18
  - Ibuprofen 200mg x16, exp 10/18
  - Cocodamol 8mg codeine x8, 02/20
  - Dextrose x1 package

- rehydration tablets x10

Sat 10<sup>th</sup> July 16-JB-01 Hopeless

Oly + Jenny

Walked up in the morning, having had a bath extracted the previous day - I promised the dentist that I would avoid strenuous activities for a few days, and also not cause of it was relaxing (he was very concerned that we might underestimate the flooding risk underground!).

Went to locate the remaining lead in 16-JB-01. This time ~~at~~ we had a rope so started it on the ledge overlooking the chassy chamber, avoiding the dodgy climb, ~~we~~ I put a bolt in and Oly went through the slot while I fetched the survey kit. Oly got down with a natural rebelay to a small over/chanter. This led to a ~~second chamber~~ similar over/chanter, but no train tunnel passage sadly. We read climbed up in different places, my climb from the 2<sup>nd</sup> chamber looked to connect with the second slot near the pitch bed. Oly's from where the chambers join became an island.

Surveyed + de-rigged out. I carried gear up the climb, while Oly had a final look in the chassy chamber, and found us another lead for the next trip.

T/U: 4hrs

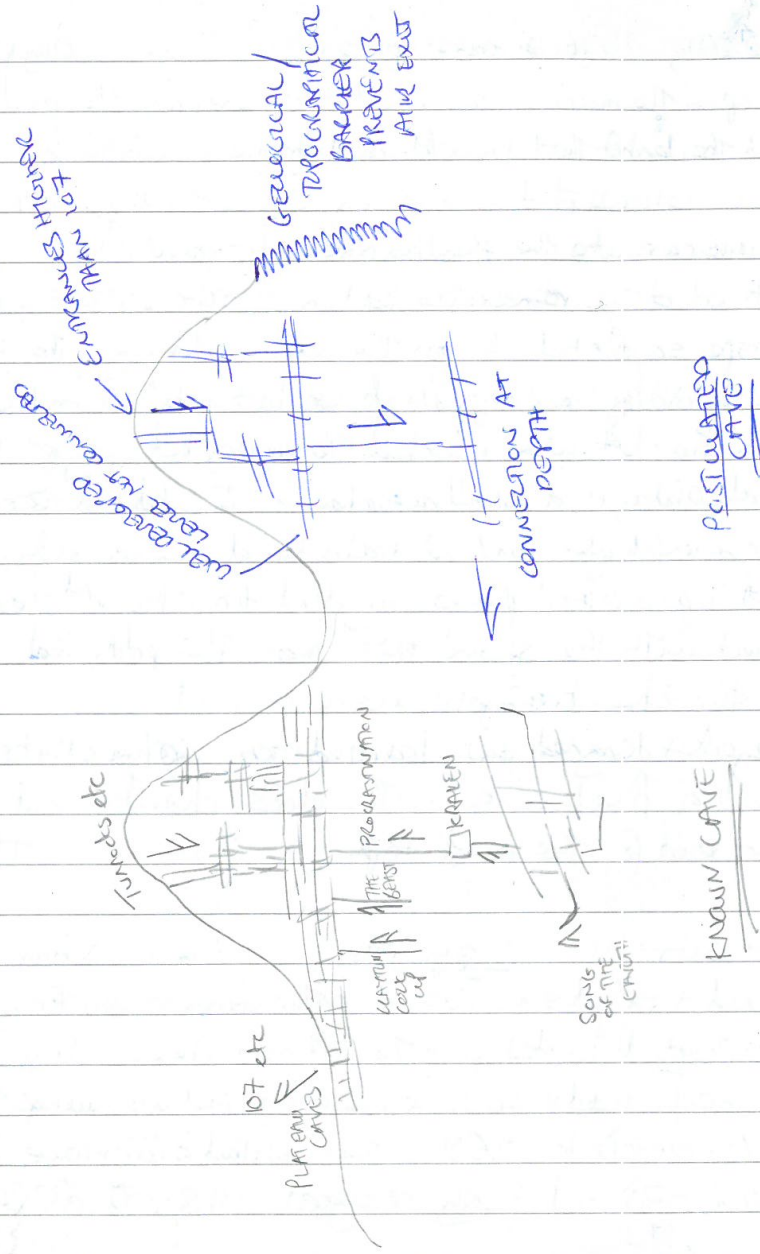
Sun 17 July

Tagging jobs.

Jenny

It rained + rained some more, so enthusiasm was low for going underground and getting wet. It brightened up in the afternoon (he was daisy not actually raining) so Oly made up some cave tags and we changed the Blue Cave (2004-01) to 269, then I walked to Cairn Cave and tagged it (2006-70) and finally re-tagged 1987-02 as 267.

CONCEPTUAL BULLSHIT MODEL:



U. ~~...~~

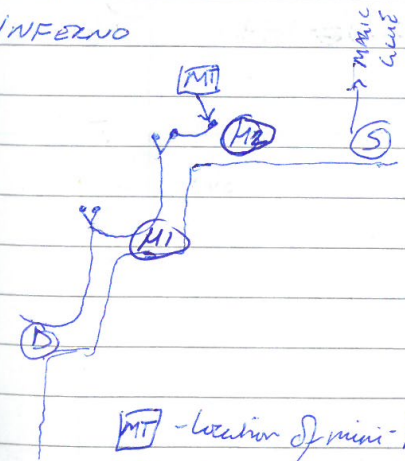
20/7/16 Turnocks derig, Upper-Kaken → String Theory

Elliott, David, Mark, Rob & Anthony

The objective of this trip was to derig at least as far as the top of the flood-prone Procrustian pitch. The intention was to use the PAELLA (Put An Extremely Long Length Atogether) technique which, a practice run in Long Drop apart, none of us had really done before. A planning session the day meant we had a good idea of what we wanted to do on each pitch, which made for a pretty slick operation. The previous camping team had also done ~~us~~ us a massive favour by detackling the Kraken pitch and the bottom half of Inferno so we only had to go 2/3 of the way down Inferno

The Paella proceeded as follows:

INFERNO



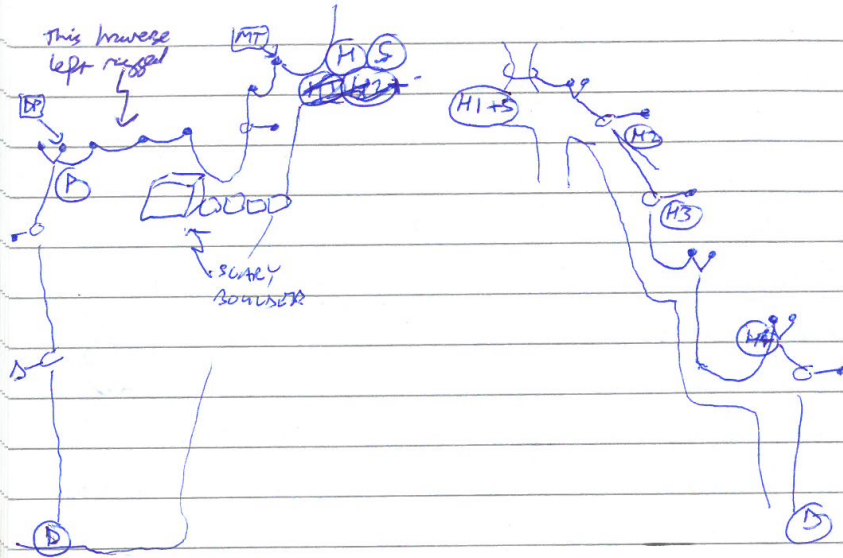
5 str

- (D) - Derigger
- (H) - Hooker - musclebound hands to yank on the end of the rope
- (S) - Striker - makes a nice neat pile of rope
- (P) - Pulley minder - mans a deviation pulley when required (to move past the knots)

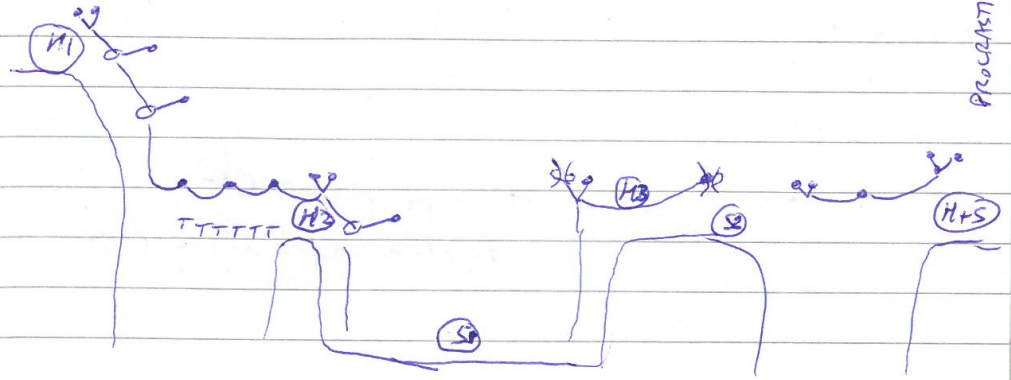
MT - location of mini-traxion  
 DP - location of deviation pulley

MAGIC GLUE

WIDOW TWANKEE'S KNUCKER ELASTIC

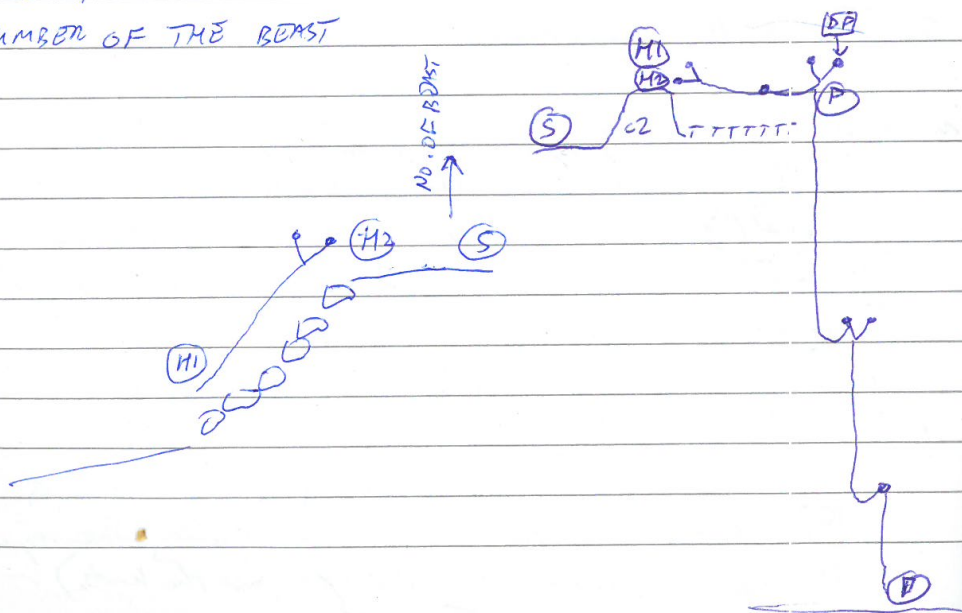


BRING ON THE CLOWNS → BOTTOM OF PROCRASTINATION  
(Done in two stages)

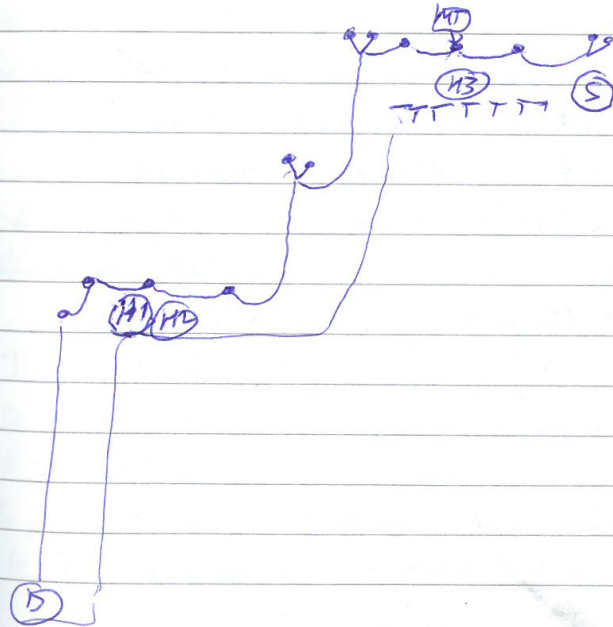


WIDOW TWANKEE'S → BOTTOM OF  
NUMBER OF THE BEAST

NUMBER OF THE BEAST

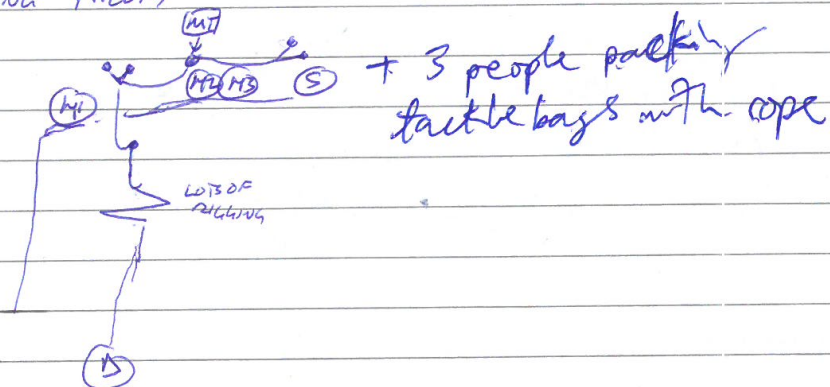


P. PROCRASTINATION



At the top of Proambulation, the timely arrival of reinforcements in the shape of Pete, Ash and Alan allowed us to pull and dig up String Theory by means of brute force.

### STRING THEORY



At the top 9 tuckers were waiting, so all the rope (2/200m of it) was bagged and ferried out of the cave. A most satisfying and effective debudding trip and a good, solid effort from all concerned.

#### Other events of note:

- When pushing up the bottom part of Widow Twankies, Rob managed to pull a TV sized boulder off that caught him a glancing blow on his helmet and shoulder, smashing the glass in his Dio. He walked away shaken but substantially unharmed. It could have been a lot worse - cave required!

- When clearing String Theory, Elliott left his personal bag at the bottom so had to put a couple of bolts back in to go down and retrieve it. This news was greeted by sympathetic laughter at the top.

Tu 14-15 hrs.

Mon 18 July 16-JB-01 Dirty Snow Oily + Janny  
 Weather wasn't great, so we had quite a slow start. Headed back to 16-JB-01 to look at Oily's new lead. Again we started the rope at the ledge but went down a little along, then oily went to the northern end of the chassy chamber and over a rock bridge to a rift. The end of this dropped down to a very dirty snow cone, with deep drip holes. First of all looked south, and saw two rifts dropping in (as the ones we were the top side) on the 9th. To the east was a short passage badly off which quiddy ended. Traversed round the left of the snow, under which is a layered snow plug, so presumably it has been here for many years. Passage continued to the north through a squeeze, through some rocks and a gap. Although there were a lot of cracks and collapse it felt fairly solid. Decided that we couldn't go further without gear. Surveyed out.

Tu: 4 hrs

Tue 19 July 76 Dering Oily + Janny  
 Decided to derig 76 while it wasn't raining, and to free up rope for 16-JB-01. Last gear I masterminded a very efficient derig of 107 with 3 people + 6 bags of gear. This gear we had 2 people for 76, 4 bags, and 6 bags worth of gear. I went down to keep Sries to

doing that. I met Oly at the Tap Room, from there I skittled  
bags out the cave while Oly drilled.

I was attracted to the cave, after much miscommunication,  
showing and inefficiency we had 3'k bags out, and Oly  
drilled to the left Below the ledge.

Went back in for another 2 hours of drilling (Oly) and bag  
skittling (me). Now we never need to return!

Thu. This

(Below MULTI A PLENTY)

19<sup>th</sup> July 2016 - "JUST KEEPS GOING + WATER TIGHT!"

Pete, Aidan, Elliott, Martin. + Rob (Guide)

↳ went off to long drop  
after guiding us.

The team kept pushing the  
lead below Multi-a-plenty rigged by Rob + Luke on  
17/7/2016 (Evening Breakthrough). Rob kindly showed the  
rest of the team to the right place. Aidan + Pete surveys  
upwards from T-junction up a steeping phreatic tube  
that was muddy but relatively easy to climb.  
The passage had the sound of water (murmur) and  
a draft (murmur) but the muddy phreatic tubes  
choke. The noise came from a squeeze as  
right into a tight meandering rift. Pete squirmed  
down rift for 5m to small stream. It was too tight  
upstream and would need a long hammer to  
make progress downstream - although it seems to

widen a bit after ~5m. I wonder if this is the same  
stream heard at bottom of pitch rigged by Rob + Luke  
the day before.

Meanwhile, Elliot had rigged + dropped a nice 15-20m  
pitch from the end of Rob + Luke's Jer point. This is  
very promising and goes into a bigish chamber  
with two ways on. But the two ways on may  
be going to same place. They both have a good  
cold draft. The first way involves scrambling  
easily round a big jammed boulder to the low  
point in the chamber. Elliott climbed down  
sketchily for ~7m to see two possible pitches  
that are probable 10-15m deep (?).

The second way on from main chamber is a  
15m traverse from the jammed block into a large  
descending phreatic tube. Nicely rigged by Martin  
from a bolt + various naturals / slings. It then goes  
to a blind away, but there is also a 10-15m  
pitch down with good draft.

Overall, these are A leads with a draft.

18-19 July 2016

Camp Kraken - Song of the Earth + Deryg → Downstream  
Katey, Elaine, Fleur, Peachey

To be read in conjunction with Fleur's report...

While Fleur + Peachey headed to the uphill lead, Elaine and I went down to the lead advertised as being a 2m wide rift with a howling draft, reached by a massive chamber with a mountain in it! Wow! As it turns out the chamber was similar dimensions to the rest of the preceding passage... okay. The sandy crawl was rather less drafty than advertised, but drafts are fickle, right? Three survey legs later we reached the end for that day. A 6m climb up lead to an upward sloping phreatic passage with a mud/water channel on the floor. The climb was a bit neekey for -900m and Elaine didn't fancy it so I marked the final station and climbed down. The ~~the~~ continuing passage we called a QMB and it will likely need some bolting to progress - steep incline + slippery mud = sadness. The climb up will also need bolting for any handline/rope. That done and slightly disappointed, we headed out to meet Fleur + Peachey.

20<sup>th</sup> July 2016 Höhle der Guten Hoffnung (2016-JB-01) Jenny, Olly

Continuing to push the same route as 18<sup>th</sup>, we (re)rigged on the way in, then dropped the down-climb we'd called it a day at, then down a short pitch with a rebelay to reach some large boulders with a view out into a void beyond. A thrown rock suggested an 20m drop but we only had a couple of metres of rope left so surveyed back to the end of the previous survey, briefly hampered by Jenny taking out a survey station which turned out to be less well connected to the boulder it was on than it appeared to be.

T/U: 6h05

21<sup>st</sup> July 2016 16-JB-01: Verovus Breakdown Olly + Jenny

This had to be our final trip, so we could carry gear down the next day. Managed to get underground at 9:05am to maximise our chances. Whizzed down to the pushing front and Olly started off with the rigging, from the final bolt of gable, a couple of naturals then a bolt got us down to a big boulder slope - a scary boulder slope at about the critical angle of slope failure, with boulders a range of sizes. Olly crossed the slope to the other side and put another bolt in before I crossed. After I crossed and Olly was placing the next bolt, some of the slope started moving towards me. We survived. Another few bolts got us down a short pitch (formed by some very big boulders) to get more boulder slope. This was

# Base Camp First Aid Spares Inventory

First Aid at Base Camp 24/07/16

- BOX #1**
- gloves
    - 1 box M, 1 box L
    - 2 bags assorted sizes
  - 2 pairs Tuffkuts
  - 2 pairs scissors
  - 2 plastic + 1 metal tweezers
  - 33 eyewash tubes (+ 2 small sachets saline)
  - 1 eye cup
  - 14 eye pads (No 16)
  - 1 blanket
  - 2 disposable hand warmer packs
  - burn dressings
    - 1x 10cmx10cm, 1x 5cmx5cm, 1x 10cmx4cm
  - 1 ice pack
  - conforming bandages
    - 1x 5cmx2m
    - 1x 15cmx1.5m
    - 3x 5cmx4m
    - 4x 7.5cmx4m (+ 1 7.5cmx?)
    - 1x 7.5cmx1.5m
  - crepe bandages
    - 6x 7.5cmx4.5m
    - 1x 10cmx1.5m
  - 3 pencils
  - 19 tampons
  - 24 safety pins (assorted sizes)
  - blister plasters
    - 2 small, 9 large
  - 2 finger splints + gauze
  - 3 finger dressings
  - 2 rescue plan sheets (laminated)

marginally less steep and there are considerably more stable. This was fortunate because we had run out of rope.

Continued down the slope - passage got narrower, and was noticeably draughty (out). Finally the roof came down, and the passage appeared to end. The draught came out of some gaps between big boulders. This looked stable, and plenty big enough, and appeared to drop about 10m. It did not look freefallable. We contemplated going back up, cutting the end off the rope and going down, but there really wasn't going to be enough time. So we looked down one last time, imagined the cautious measureless to man that lay beyond and survived out.

BOTH  
SIDES  
OF PAGE

Looked at a few inlets/alcoves at floor level on the way up, but nothing went. Higher up there are many inlets 1/2+ way up the walls. Designed as we survived and scavenged survived the boulders again.

Scavenging finished, I shuffled bags as they designed. Placed a multi at the entrance, to which we added a tag two days later while packing the bin.

Noticed that the entrance is incredibly close to the old path to Z04/Topcamp (i.e. the one in all with stairs).

TU: 10 hrs

# Base Camp First Aid Spares Inventory

- BOX #2**
- dressings
    - 28x sterile HSE Med (12cmx12cm)
    - 13x sterile HSE Large (18cmx18cm)
    - 1x sterile first aid large (10cmx12cm)
    - 1x sterile first aid medium
  - 25 wound cleansing wipes
  - ambulance dressings
    - 2x no 1
    - 2x no 2
    - 2x no 3
    - 6x no 4
    - 1x TB trauma dressing (15cmx18cm)
  - 20 triangular bandages
  - medical tape
    - 7x Leukofix 1.25cmx9.2m
    - 1x 5mx1.25cm
    - 2x 2x5cm? } shit
    - 1x 1cmx? } shit
- WATERPROOF BAG** + Ollie + Jenny's drugs list
- dressing pads
    - 14x 10cmx10cm w adhesive border
    - 8x 15cmx15cm no adhesive
    - 3x 5cmx5cm " (Melolin)
    - 3x 7cmx6cm " (Steripore)
    - 4x 8.3cmx6cm " (Pinnapore)
    - 2x 10cmx8cm " "
    - 7x 10cmx10cm " (assorted)
  - swabs
    - 3x 5cmx5cm pack of 5
    - 1x 7.5cmx7.5cm pack of 5
  - ~110 plasters, assorted
  - steri-strips
    - 1x package of 3
    - 2x package of 5
  - 1 Tegaderm pad 5cmx7cm
  - 72m fabric dressing strips (total)
  - Star gel handwarmer
  - 12 hour lightstick
  - tealights + matches + 1 lighter

BOTH  
SIDES  
OF PAGE

marginally less &  
This was fortunate  
continued down the  
naturally draughty  
the passage appeared  
some gaps betw.  
plenty big enough,  
did not look forward  
cutting the end of  
wasn't going to be a  
bone, imagined the  
beyond and survived  
looked at a few in  
nothing went. High  
up the walls. De  
survived the boulder  
Surviving finished  
a little at the end  
later white patches  
noticed that the  
path to 204/20



19/07/2016 Balcony Cathedral Chasm.

Mark David Ashley

Went down to limit of exploration.

David rigged a couple of 10m pitches, but both were choked. Walls covered in some nice "flapjack" crystalline calcite.

Meanwhile Mark and Ashley explored a B/C lead. A couple of dead bats. After about 50m it began to get lower, but a flat-out crawl popped out into a big, obviously well used passage! It turned out to be right next to Trident Junction.

We finished off by detaching the upper way into Cathedral Chasm. Any further pushing can be more conveniently done via the crawl, rather than going all the way round which includes a slightly dodgy pitch and a couple of traverses.

T/U 8 hours.

GEAR LEFT AT TOP CAMP, END 2016

METALWARE:	Metalware & hangers drum	Large Pee Pot	Small Pee Pot	TOTAL
AS + DYNEMA		3	3	6
CLOWNS	11		2	13
BOLLARD	3			3
TWIST	20	71	35	126
BEND	30	23	34	87
MR	<del>100</del> 50	47	88	185
RING	46		19	65

• All metalware washed, dried and lubricated with WD40

BIG DAREN DRUM # 1 (HEAVY!)

119 curries

24 novellas

BIG DAREN DRUM # 2

4kg cous cous

1kg raisins

5kg macchi

500g sunflower seeds

7 bags Ready Brek

500g sugar

5 bag rolls

1kg Flapjacks

7 soups

500g sultanas

~4 freezer bag rolls

food clips

2 rolls bin bags

8 jars pesto

1 bag mints

1 1/2 bottles mild chili sauce

1 1/2 bottles relish

4 spice paste

black pepper

## BIG DAREN DRUM #3

8 kg Playgäcke  
500g smør  
1 tin Mornplate  
61 soups

4 Trwellinches  
43 curries  
22 røddes

## OTHER STUFF

Stretcher  
First response bag (complete)  
Big Daren Drum of electrical stuff  
8 x tape measure  
3 x big tackle sack  
- one of these contains  
90m 5/11mm (renew rope)  
1 x small tackle sack  
2 x drill bag  
~12 camp beds  
~200 Hilti anchors  
7 short 10mm drill bits  
6 blowing tubes  
1/3 drum ~~smør~~ chocolate drink  
empty couscous  
nearly empty custard  
bag making kit  
5 kg Outso

7 notebooks  
7 pencils  
lots of punctured air mattresses  
2 gas cylinders (5 kg)  
- 1 full, 1 part-used  
6 pans  
empty gas cylinder  
1 roll gutter tape  
1 roll LX tape  
CACC expo brew kit  
1/10 drum sugar  
15 instant soups  
1/10 drum milk powder  
1/10 drum smør  
1/10 drum museli  
2 x car battery (in boxes)  
4 x big camping mats with lid  
2 x spoons

Full 400g gas canister

2 x part used 100g gas canister  
1 x club hammer  
6 x bolting hammer  
1 x spit driver  
6 x Hilti setters  
2 x crow bar

1 x spade [IN ANIMAL HOLE]

WD40

6 x spits

2 x 13mm spanner

~30 reflective canions

Bio tub

2 x bathing bag (2mm, woven)

Tub of reflective batts (wid)

1<sup>st</sup> response first aid kit

- in Peli case

Top Camp first aid Peli case

Top Camp callout Peli case

- contains assorted surveys

& laminated bivi rigging guide

2 x dry bag

- one contains 3 x big orange

survival bags

3 x deviation hat (2 with ring hangers)

6mm cord

Assorted bivi rigging hat

Big seat + mounting bits

3 x rope protector

Water collection system

(batts, taps, pipes, funnel)

Shagged duff bag

1 x box emergency rationis

# ROPE LEFT AT BASECAMP END 2016

Year	diameter	Length	Year	diameter	Length
2015	9	15	2014	9	58
2013	10	48	2014	10	99
2014	11	65	2015	10	24
2012	9	45	2011	11	61
2012	10	15	2010	10	80 ULSA
2014	11	50	2010	10	80 ULSA
2016	9	90	2011	10	22
2015	10	43	2011	10	31
2013	9	60	2009	11	13 ULSA
2016	11	86	2009	9	14
2012	10	29	2010	9	29 ULSA
2012	9	28	2009	9	10 ULSA
2012	9	25	2009	10	25 ULSA
2015	10	30	2009	10	35 ULSA
2012	9	25	2009	10	30 ULSA
2014	11	12	2009	10	14
2012	9	13	2008	10	27
2012	9	55	2010	10	34
2014	11	8			
2012	10	13			
2012	9	12			
2014	11	9			

# GEAR LEFT AT BASECAMP END 2016

Pullmat x2  
 Wetsuit (M)  
 20' & 30' ladders + spreader.  
 Fibre pile pit (busted zip)  
 Basecamp quality pit.  
 Thermarest  
 Expo campsite labelled  
 "Matt Watson, not Expi's"  
 Kammat x2  
 Wax Temp x2  
 Smuggled up camping pit x3  
 Basecamp first aid kit  
 (in 2 boxes)  
 5x6m tarp (new)  
 Log tarp  
 30m mains extension  
 Lead, European plug  
 Dangle bag with enough  
 reflective cairns for  
 HC path (~50).  
 Box of hardware - gears, screws, wire, gels, tape etc.  
 3x bags / boxes of extra med. supplies  
 Box of liquids - paraffin, mints, Suncream, Sealant  
 Peli case v. Petzl permanent lamps, n 7

Pocket of pegs & hammers  
 Ratchet Sit horn  
 Makita horn v. tools & bolts  
 Makita 12V Drill x 4  
 1 Set of compasses  
 Assorted pins, pens, pencils, mugs, cables  
 2x drill positions  
 2x stove; "DANGER OF DEATH" sign  
 2x Disto  
 ~25 survey reflectors  
 ~8 large waterproof reflectors  
 Bear tent poles, lugs, bolts, slats  
 Fluorescent light for bear tent.  
 Box w. 57 MRS & 72 hoppers  
 63 karabiners (mix of - screws, nuts  
 & snaplinks)  
 5 chairs  
 29 slings  
 3x AS hangers  
 Bread machine

Lin big down drum

24/07/16 Galcony - Galactica  
Hills - a party

Ashley Martin

Went to explore Hills-a-party and push a  
pitch discarded previously by Rob and Co. Eventually  
named the pitch Deep Space 9 - suggested by Rob  
on a late hop, Mark bolted our rig, before we  
descended to a loose rocky passage. At the  
end of this was another promising pitch which Mark  
began to rig, meanwhile I shored survey a scotty  
side passage. The side passage was shale for  
50m but began evening into a sandy chalk  
from here an ordinary led to a massive  
chamber - Galactica. Petzl Duo could not  
make out opposite wall, left wall, right wall,  
ceiling or floor. Recalling Martin with spot  
light could detect only how 90m from  
side to side and 50m to rear  
floor - could not actually make it out will  
need to go back next year. Concluded by  
surveying a smaller bit of the first chamber  
to conclusion. Good 150m of loose survey  
not really massive Galactica. Of course it was  
the last day of pushing...

25/07/16 Galcony Derrygry - Hills-a-party

Ashley Martin Rob

Went to show Rob Galactica before then  
the big derrygry began. Derrigry Deep Space 9  
the the base of Dm? the Court stop now  
this is bad country. Also found an odd bit  
of survey left behind by Rob just before on  
the pitch. Then I derrygry Hills-a-party with a  
tackle bag a tad too small. One re-belay near  
the top proved particularly difficult to derrygry, resulting  
in a slip and swing and crash, too  
my discomfort. We met Elliott and Michael  
near the entrance pitch and left them to derrygry this  
as we headed out. Rob left before Martin and  
I, disappearing down the hill rather quietly. We  
were a bit slower, weighed down with bits  
of gear. And for today all of Galcony was  
finally derrygry and the day was completed  
for this year.

# Food left at base camp

33

## Sesh 16 - Notes

8/25/2016

Please use this page to record details of the sesh. who ordered what, how much  
individual items cost, to avoid clutter on the opposite table.

red cabbage	3 kilos + half etc
2 jars chutney	big jar of THE WRONG CUSTARD
olive oil	
balsamic vinegar	Instant noodles = one
ketchup	large clam FULL
hot sauce	3.5 kilos the night custard!
pickled items x 6	1.2 kilos instant hot chow.
tomato puree	11 small jars pesto
oil	10 small jars other sauce.
instant soup mix	16 packets instant soup.
pickled things	2 bags flapjacks.
rice (1 kilo)	
2 hrs sweet corn	
bagiattelli	
stock cubes	
2 fins leah's	
1 tin beans	
pesto	

6 x drybag

2016

scale  
etc

bags  
& decompos.

in play

(knife)

(sack)

MORE GEAR LEFT AT BASECAMP END 2016

Monitor

5 x largeish backpacks

2 x spreads

1 x ~~small~~ small backpack

Another med. kit (in Peli case)

3 x duff bags

Keyboard

250 x ~~DE comp. bags~~ DE comp. bags

network cable

(if they don't decompose)

USB cable

2 x <sup>Battery</sup> 4 way with European plug; 2 x 4 way with British plug

stereo

Scanner

Colour laser printer

Spare black/toner cartridge

Laminator + ~ 50 laminating pouches

Base camp mains Matsita charger.

Food making stuff (scales, some flour, ~~measuring spoons~~ <sup>cutting mtk. bread knife</sup>)

Kettle

Assorted leads & chargers (N.B. EXPO mouse DOES NOT WORK)

1 empty 5 kg gas cylinder

1 mostly empty 5 kg gas cylinder

1 empty 11 kg gas cylinder

1 part-used 11 kg gas cylinder

1 bag of survival bags

1 bag assorted carp.

1 HTC phone (donated by Sam?)

6 x duff bags