

AR10 2022

29 JULY

OXFORD CREW ARRIVE AT THE REFUGIO

30 JULY

CHAS, MARTIN HOLROYD, KEITH CHATTERTON AND MARK BURKEY
DROP OFF FOOD, WATER + EQUIPMENT FOR THE HELL NEAR BENIS DE
ONGIS. MARTIN + KEITH HIKE UP FROM THERE. CHAS + MARK
CONTINUE TO LOS LAGOS TO MEET UP WITH PETIE AND HIKE
UP FROM LAGO ERLINA - PB

31 JULY

WE HIKE OVER TO MUXA EN-MASSÉ, FINDING IT EASILY ENOUGH
MARTIN, MARK AND KEITH STAYED TO BEGIN RIGGING. EVERYONE
ELSE RETURNED TO THE REFUGIO, FINDING AN IMPROVED ROUTE ON
THE WAY. PICKED UP A LOAD OF GEAR, AND FURTHER REFINED
THE ROUTE TO MUXA WITH CAIRNS + REFLECTIVE TAPE. RIGGING
TEAM RETURNED HAVING REACHED THE TOP OF THE GRAN ABSISU,
AT ROUGHLY -200M - PETIE

01 AUGUST

MARK, CHAS, MARTIN + PETIE TO MUXA TO CONTINUE MOVING
IN GEAR AND RIGGING DOWN. EL GRAN ABSISU WAS BOTTOMED
AT -500M THANKS TO SOME VERY EFFICIENT RIGGING BY
MARTIN. ITS A HELL OF A SHAFT! KEITH PACKED CAMPING GEAR
ALL MORNING. OUEL TEAM RETRIEVED MORE GEAR FROM XITU.
KEITH + OUEL THEN BROUGHT SEVERAL BAGS TO MUXA, AND
CARRIED THEM DOWN TO -100M - PETIE

02 AUGUST

CHAS, MARK, MARTIN + KEITH ENTER MUXA FOR A TWO-NIGHT
CAMP. OUEL SETTING UP A TARP AT MUXA ENTRANCE. PETIE

DOING ADMIN AT REFUGIO - PETIE

03 AUGUST

VLAD, VLAD, FIONA AND PETIE HIKE UP TO THE ENTRANCE OF C4 WITH 300m OF ROPE IN 3 BAGS. EACH BAG ALSO HAS 10 STAINLESS BOLT/HANGAR/NAILON SETS. WE PLACED CHAIRS + MARKER TAGS DOWN FROM C4 AND ALONG THE GRASSY RIDGE TO THE BOTTOM OF THE VALLEY BELOW C4. - PETIE

04 AUGUST

Woke to find KEITH BACK AT CAMP HAVING COME OUT THE PREVIOUS NIGHT. THE CAMPING TEAM WERE OUT OF RIGGING AND KEITH HAD VOLUNTEERED TO BOUNCE TO THE SURFACE TO GRAB SOME 200m OF ROPE WAS BAGGIED PLUS 40 BOLT SETS. KEITH + I + OUCI THEN HIKE UP TO MUXA. OUCI LEFT FOR SURFACE PROSPECTING. I WENT AHEAD OF KEITH, MET THE CAMPERS AT THE BOTTOM OF THE PITCHES. CHRIS + MARTIN GRABBED THE BOLTS AND LEFT FOR THE RIGGING FRONT. MARK EXITED AS HE WAS OUT OF CAMERA SUPPLIES. I WAITED 2.5 HOURS FOR KEITH, WHO SHOWED UP WITH AN INSURED THUMB. I TOOK 100m OF ROPE AND LEFT KEITH AT CAMP TO REST. 2.5 HOURS LATER I REACHED CHRIS + MARTIN WHO HAD JUST RUN OUT OF ROPE. THE FINAL PITCH WAS RIGGED AND A SHORT CLIMB BEYOND WAS RESCENDED. A FINAL ~150m OF STREAMLINEY LED TO THE SUMP POOL. SUCCESS! A 3 HOUR JOURNEY BACK UP TO CAMP WHERE KEITH LAYED ON DINNER. ITS A SUPER CAVE AND A DECENT CAMPSITE, DESPITE THE DRAWS. - PETIE

05 AUGUST

ALL CAMPERS EXITED MUXA, A 2-3 HOUR JOURNEY TO THE SURFACE. PETER DENNIS, GRAHAM TAYLOR AND MARTIN HOFF ARRIVED AT CAMP TODAY.

06 AUGUST

OUC TEAM DROPPED MUXA AS FAR AS THE EAGLES NEST, LED BY GRAHAM TAYLOR. MARTIN HOFF LEFT, ACCOMPANIED DOWN THE MOUNTAIN BY CHRIS. PETIE AND KEITH DROPPED DOWN TOWARDS THE CAVES GORGE, TO FIND 53/5. VERY IMPRESSIVE DRAFT! - PETIE

07 AUGUST

MARK + KEITH TO C4, SHOW THE WAY BY MARTIN HOFF. MARK + KEITH THEN RIGGED DOWN AS FAR AS THE TOP OF THE MONITOR. THE OUC STUDENTS FOLLOWED BEHIND AND DROPPED DOWN AS FAR AS THE 3RD/4TH PITCH. PETIE AND PETER DESCENDED TO 53/5 AND ENTERED THE CAVE. HALTED AT THE COFFIN LID, A VERY COMMITTING SQUEEZE. SHORT AND THIN PEOPLE ONLY, OR CAPPING NEEDED FOR PEOPLE OF AN AVERAGE STATURE TO ACCESS THIS VERY PROMISING LEAD - PETIE
(YS) TEAM + TOM CHAPMAN + TOM'S GIRLFRIEND MICHAEL ARRIVED TODAY + RICH HUDSON, SHANE DUFFLEY, AND SAM LEE

08 AUGUST

A BIG MORNING AS 15 PEOPLE MARCHED OFF TO MUXA. PHIL BAKER, KEITH MASON, SHANE DUFFLEY AND SAM LEE WERE TO HEAD TO THE SUMP WITH DIVING GEAR AND RETURN TO CAMP THAT NIGHT. RICH HUDSON AND TOM CHAPMAN WERE TO BOUNCE THE CAVE, DROPPING MORE DIVING KIT AT THE SUMP. GRAHAM TAYLOR DROPPED TO CAMP TO SET UP THE NICOLA PHONE. PETER DENNIS DROPPED TO THE EAGLES NEST. SEVERAL PEOPLE STAYED ON TO TEST SURFACE COMMS, ALL OTHERS HIKED BACK TO THE REFUGIO. - PETIE (STEPH + MIKE ARRIVED THIS EVENING)

MON 3rd JULY 2022

WHO'S IN CAMP

Chris J

Petrie Baby

Steph

Mike

Michaela

Mark B

Vlad

Vlad

Kione

Tue Hegg

Peter Dennis

Stu W

Lisa W.

Phil H

Phil B

Graham Naylor

Mr. Bump

Shane Duffly

Tom C

Sam Lee

Keith C

Keith Mason

Mon 3rd pm @ camp

Phil B

Keith M

Shane D

Sam Lee.

Callout Tues

Dinner time.

1x Emergency bag
@ camp.

POA as of 9.45pm Mon 3rd July 2022

WEATHER from meteoblue.com
for Pico's de Cornier. for Tues

Sun & cloud, chance of thunderstorm 4ish (pm) (4-5pm)
pinch of salt

9am TEAM

CHRIS J - Diving

LISA W

MARK B

~~PETER~~ STU W

} photo team

→ BRING Puri TABS

if well enough ✓
- sore

9 BAGS NEED TAKING OUT
FROM SUMP. WED.

WEDNESDAY TEAM

CAMPING TEAM

Phil H

Stu W

Rich

+ ?

BOUNCING TEAM.

Steph

Twig legs

+ ?

} Bring Caddy
bin liners down
to camp.

WE NEED TO TEST NICOLA PHONE

• 1 x EMERGENCY BAG is 1/2 hr from Sump.

This will get moved to Sump on Tues with
div team. Contents?

Small stove, storm shelter, zigzag bag,
Nano 1st Aid kit, lighters, 2x small gas bottles

STATE OF AFFAIRS AS OF MON 8TH

AT CAMP

Sleeping Mat — 4

1 X Emergency kit

" Bag — 4

Delay Jacket — 4

Normal stove — 1

Small stove — 1

Gas Canister — 2 medium

Dinner — 4 evening meals — ^{for DIVING} TEAM ONLY.

Tea / coffee

toilet paper x 3 rolls

Sugar

Alcohol gel. x 2

milk powder

TOILET FACILITIES.

stock cubes

padding bags

mayo

dig trench

Big first aid kit

} Fill in
@ end of
EXPO

* EVERYONE BRING IN THEIR OWN CANE & CAMP *
* FOOD bag tea, milk powder, mustard *

ALSO THEIR OWN CROCKERY

If you taking in boxed dinner mix, take a sachet
of flavouring i.e. 2x cuppa soups or stock cubes

Maybe take some personal toilet paper.

Pack GAS!

Nicola II set up @ Camp

Nicola testing plan

TEST@ 10am-11am WED.

TUE test 12.30 - 1.30 pm

NB. Peter Dennis will join Graham Naylor to confirm Nicola set is familiar to use. Will camp in Muxa tent to stand in for regular calls Tuesday evening/Weds morning. Do folk know how to use Nicola?

P.D. familiar with Nicola 3 and prototype N4Z. Will shadow Graham to be certain for when Graham departs. P.D. will use time between agreed calls comms windows to collect water from Vega Maar springs. N43.2496°W -4.9246.



CONSIDERATIONS FOR CARRYING BOTTLES.

Don't drop it 20L ☺

Make sure fottle & bag are attached 2 you

Don't bang it about

Try have it clipped on short leash

CHRIS JEWELL'S PLAN, TIME LINE, KIT & CALL OUT PROCEDURES

Depart AR10	9.30	
Enter Cave	10.30	
Camp	12.30	Got to camp @ 13.25 - S.O.
leave camp	13.00	
Sump	15.30	Probably 6 - 8 hours for dive 'call out'
dive start	17.30	
dive end	20.00	- Also there's at least 1hr delay due to kit delays. - S.O.
leave sump	21.00	
camp	23.00	

~~leave camp~~

nicola test 10.00 - 11.00 WED
COMS

leave camp 11.00

surface 15.00

Info for dive emergency

Jason +44 7802 940374

John +44 7710 515859

- 1) contact Jason & John V
- 2) give them a description of the cave and the dive as below including the equipment I have
- 3) consult with JV & Jason + BCRC. Decide if or when to make it official but need to avoid delays due to politics.

100m deep cave. 600m shaft series + 2km streamway
dropping 300m over 26 pitches. Wet and cold. (6c)
Sump expected to connect to Texa. Probably 2-300m away
known to be -33m but expect to reach 45-50m depth.
visibility expected to be excellent and sump large and open.

CS diving in drysuit inc dry gloves. Not expecting to do it
or do much beyond
sump caving.

using sidealnder rebreather

2 ltrs O₂ on board.

1 x 9ltr composite of air @ 200 bar

1 x 9ltr composite of Tm_x @ 200 bar

1 x 7ltr Ali of O₂ @ 200 bar for deco.

Scuba dive + side light + handheld light.

usual search reel, compass, slate, cutters etc...

Chris & Co. left refugio ~ 9:45 AM.

Tues AM - Keith C went off hill.

DAY

JOB'S

&

PEOPLE

WED

9+ tackle sacs

B1

Steph

} bounce

to exit cave

B2

Mike

Camp was made of Chris & Co

@ 13.25 9th Aug 22

B3

Lisa W

hopefully

B4

Stu W

} exiting

B5

Chris J

} camp w/
1 bag each

WED



exit

Thurs

B6

Rich H.

B7

Peter D

B8

Vlad (Sig)

B9

Phil H

THURS

* Chris needs his tent for the 14th Aug SUN
Folk needed SUN for carries off hill or
average donkey.

THURS

C4 Re-rig

Petie

BIG Q IS WITEN TO START DE-RIG!!
Need to ask Mark & Sandy if they want to do. Mava

9/8/22 Cabrera Plaza entrance

12 noon realed Nicola antenna wires back to the tarp shelter and started listening at 12:30. At 13:25 first signal from underground Nicola Z received on Nicola 4Z loud and clear on the bluetooth headset. Reception underground was also clear. We switched to the Nicola 3Z and got equally good reception. The underground party expressed a preference for the ~~N3Z~~ N3Z (more work to be done on the N4Z TX!). Suggest using the N3Z be used for the entrance normally, though it will need to come back to the refugio to charge the internal batteries. Switch to the N4Z when necessary. There are 2 N4Z battery packs on the surface (at the entrance). There should be a third battery box in Chris' car? Also there is another N3Z in Chris' car? There are 2 N4Z sets at the entrance (under the tarp). There is also an unused earth cork screw stake in a tackle bag there as well.

We did hourly checks from 15:00 until 18:00 :- No response

Summary

Entrance (under tarp):
2 x N4Z sets
2 x N4Z battery packs
2 Cork screw dog bet the grounding spike (1 at end of upper antenna)
1 x N3Z (internal batteries)
In plastic bag: Bluetooth speaker, Blue earpieces, Overhead headset

Chris' car?:
1 x N3Z (needs battery pack)
1 x battery pack suitable for N3Z or N4Z
1 x large blue charger for battery packs

Underground camp: 1 x N2 2 x battery pack 1 x pill box

Gear Tent Area: Kistie box with blue charger and euro power supply brick to charge in refugio.

+ various wires electron fence tape. Bring back as much as you can but wind wire back on to the reels. Do not bring wire back as a pile of wire!!
cheers Graham.

WEATHER

Written Wed 10th. The weather going forward is likely to be rather changeable & more difficult to interpret.

Please contact PAUL MACKRILL daily to get him to give you the more complete & accurate picture of the weather & the likelihood of a thunderstorm.

His phone no is 8 → first preference
~~88~~ +33 7 83 99 07 28

UK no: +44 7837 484804

Other: +358 41 318 1669

email: psmackrill@gmail.com

12 / Aug / 2022

Fiona: prospecting towards 22/13, 32/13 direction.
set off 11:00 am.

C4 PEAR AT HEAD OF MONSTER 7/8/22

MARK & Keith checking Riggings to monster. (All Riggings checked, a couple of bolts Replaced, Rope usable but swollen again damaged rope replaced.)
Left 2 monster: 28x bolt, Hanger, million sets
6x Hangers, 5x bolt hanger. 2x 100m Rope, 1x 15m rope
Drum, 2x 6ah battery, 3 drill bits, 3 bags.
* In situ Millions Available on old rope / could do with oiling.

THURS 11th AUG 22

Mike & Steph

WEIGHT IN MUXA

5 x SASH WINDOW LEIGHTS 5x2.5to
9kg lead blocks.

Last caving / active day

Rich - Monday
Sam - Monday
LISA - THURS
PHIL H - THURS
STU - THURS
KEITH - THURS
PHIL B - ~~WED~~
TONY - END
SHANE - TUES
PETIE - SAT. (TODAY)
BARTK - END
PAULINA - END
MARK - END
SANDY - END

Muxa de ng stream plan

Sun 14/8

- Tony / Phil B → sump + de-rig to camp / camp o/n + pull emergency bag
- Paulina / Bartek / Lisa photo trip to camp / Paulina + Bartek
- Peter on course o/n (8pm - 11pm) ✗ o/n

Mon 15/8.

- Tony / Phil B out (start c 8am) with some ✗ kit
- Paulina / Bartek follow with photo kit / some ✗ kit?
- Rich / Sam / Stu? bournes in later to ✗ to clear
- (Stufomeet) all ✗ kit once know departure time of Bartek / Paulina
- Peter on course (Tan →)

Dugging Lower Steamway report (TS/PB) 14/2/22

- in 5 bags, numbered with ① being the lowest (sump end)
- ropes in order in bags, knotted, but no mauls or slings
- left some hangers high up in place - might be worth taking a 50m rope in case not high enough!
- bag ⑤ at camp with first pitch in only (assume this as Stu/Riel/Phil/H/Shane dugged this when taking Nicola wine out of stream)
- bags ④ + ③ at bottom of black rope in first boulder choke - start rigging with bag ④!
- bags ② + ① located in dry fossil passage, below P10 at ~700m on survey. It's the junction where after P10 you go left to continue to steamway (cairns). Instead take R branch (as if to peaked sump) + immediately look R into window upwards (black sling on spike). Pass sling upwards + look R + high on ledge. Bag ② is an old Transporter + ① Petrol 22L. Start with bag ②! Should be flood proof as carbide in passage 4m lower 😊.
- all bolts + hangers left in place (stainless)

15/8/22 Muxaderigging (Rich + Shame)

22m unrolled 9mm

5x hammers

3x stainless through bolts

2m tape

Small amount of food (snacks)

3x carry mats

tent

2 pairs of camp shoes

Yellow bag (1st downstream

↳ No 5 rigging bag

Muxa
left at camp

(full)
2? bags above
Pozu Lveje

↳ NEED TO
CONFIRM

16/08/22

27/9 callout. Location: 43.233083, -4.933694

Mark, Sandy, Paulina, Bantele 8pm

Muxa entrance : 16/08/22 (all camp but removed)

Items left.

3 petzl Bags

Big tarp.

first Aid kit

2x 500ml Water

Bag of Snacks - lots

Sanitizer + Toilet Roll

(Boots & Overcoat - Tonys?)

16/08/22

27/9

Sandy, Mark, Paulina, Bartek

Drill, 2x bits (8mm), hammer left at top of Foot Hang (1 bag).

17 stainless hangers / throughbolts + mailbags + 1 full bag of rope left at bottom of Foot Hang.

Surveyed starting at previous limit and down Foot Hang. Top of FH needed ~~rebolting~~ rebolting, but all good now. Rebolays all good, but was surprised to find the rope ending 10m off the floor! Turns out we had cut the rope off where we had entered the And Reality rift. I got off there and once Sandy reached me we remembered we'd climbed down from that point previously. The climb was OKish, so we surveyed to the bottom after adding a decent anchor to mark the rift entrance. We set off back up and when Sandy was at the 1st rebelay we could start to hear a distant noise. Not exactly a roar or a rumble, but ominous enough. I was wondering whether to stay put or head up as I waited for it to arrive. Just as I'd made up my mind to go for it and head up the water arrived, showering me where I was waiting. Thankfully it was nothing more than a shower - it sounded like it could have been anything. With the excitement over ~~it~~ we continued on out. Enjoyable trip.

To do

- Muxa design to entrance (Tony + 1?)
- Carry from Muxa + shaft bashing (all)
- C4 to ladder pitch? (teams of 3?)
 - ↳ tidy rigging below monster.
 - ↳ remove old rope (~150m near monster)
- 27/9 survey to Sound of Silence + hammer Ario Reality
- 27/9 next pitch?
- 53/5?
- Tidy/storage day → Xitui

	Tony	Paulina	Bantek	Sandy	Mark
Thurs 18 th	Muxa		27/9		

Fri 19 th	Muxa	Muxa	Muxa	Muxa	Muxa
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Sat 20 th			C4 (3)		
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Sun 21 st			C4 (2)		
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Mon 22nd

Tues 23rd

Weds 24 th	↓		Carry down		
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Thurs 25 th	X				
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Fri 26 th	X		Xitu		
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Sat 27 th	X	↓↓	↓↓	↓↓	↓↓
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18/08/22

Tony $\rightarrow$ Mixa desig. Aiming to be back by dark.

Bartek, Sandy, Mark $\rightarrow$ 27/9. Aiming to be back by dinner
 $\rightarrow$ coordinates a few pages back.

- All ropes left in place. 1 ϕ m spare at bottom of "sound of silence".
- 12 stainless hangers, 12 stainless throughbolts, 12 marlons all at "sound of silence".
- approx. 6 ϕ m rope in tackle sac (petzl classic) with no krab at "Hello darkness my old friend".
- Cairn marking last survey station with cross scratched on floor.
- Entrance pitch rope lowered on cord, may benefit from extra hanger with bolt (spit in place).

- Mark, Sandy, Bartek

Surveyed along "Ario Reality" with minor adjustments made by hammer. High level above pitch head "sound of silence" not surveyed. Rope at "sound of silence" found in good condition. Descended pitch and surveyed down, passage at bottom did not match well with memory of either previous explorers! Squeeze before head of "Hello darkness" pitch was a surprise. Mark belted this pitch, found to be 22m deep in single hang and dry. Final survey station is cairn at base of this pitch. Trench in floor of chamber not pushed, climb up slope leads to a Col, on the other side of which was pitch down into steeply hanging rift dipping away at $\sim 90^\circ$ to the way we had come in. Sound of stream evident at limit of exploration.

18/08/22 Catcra Muxa. ADS

Derig from Eagles' Nest - water station - to surface.

NB following heavy rain over previous 36 hours, cave had changed from essentially dry, to significantly damp on the last three hangs above the Eagles' Nest.

Notes on kit:

- 1) Large / v large bag at Eagles' Nest, containing Gran Abish rope. This bag is tied off to a natural in the dry alcove.
- 2) Subsequent ropes derigged in two Petzl Classic bags, tied to hanger at head of first true 'underground' pitch, on right. NB left hand bag, physically lower, and marked 'BAG 2, Lower' contains ropes for pitches down to Eagles' Nest.
Right hand bag, physically higher, and marked 'BAG 1, Upper' contains ropes for pitches immediately above Bag 2.
- 3) All hangers left in place, all rope knots left in place in two Petzl Classic bags. Deviation tape left in place. NO MAILLONS OR KRABS left in place.
- 4) V IMPORTANT - $< 150\text{m}$ of rope derigged from surface, removed and de-knotted. For bagged ropes to match pitches you need to rig from surface with same / same length rope!
- 5) Fifty seven (57) mailons removed from cave, to cover surface to Eagles' Nest. Also one hanger and nut (entrance pitch traverse) and sling for entrance pitch deviation. Two deviation krabs also required, because they were removed.
- 6) Nothing left at entrance.

* Update: 170m

Area E caves were described as ending at snow:

1, 2, 9, 10a, 16, 18, 20, 21, 24, 27, 30, 32, 34, 35,

10: undescended?

14: pitch beyond blockage

22: odd description + strong draught

36: Crowbar needed but promising?

38: undescended?

20/08/22 C4

Tony, Mark, Bartek, Paulina

20x stainless hangers + stainless throughbolts, 19 mailons,
ca. 5m tape and brew kit at top of monster

1st aid kit at bottom of monster

All old rope encountered was removed

Chain of mailons still at entrance

168m, 100m, 20m, 10m, 15m at head of 'Growing Up' with
description + rigging guide.

Xitu drums marked

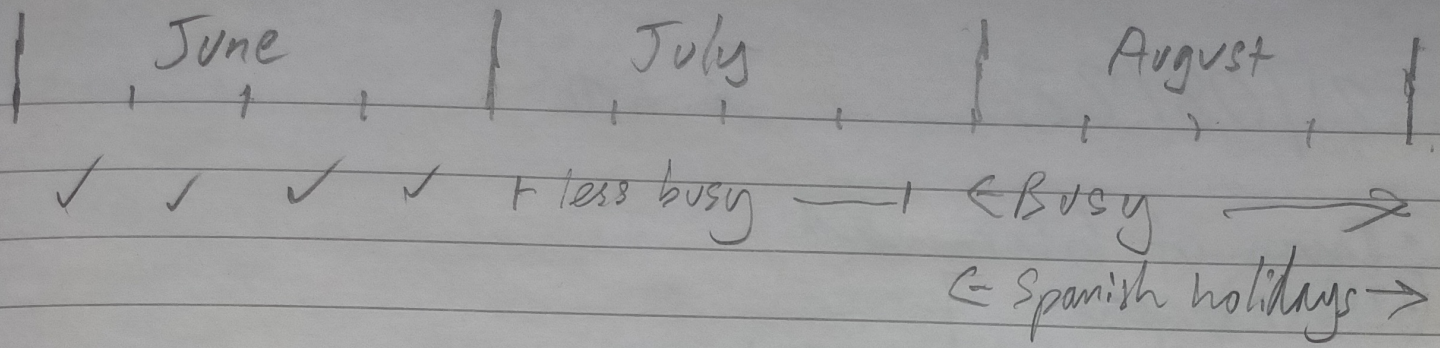
9th Aug 2022

"2022 [contents]"

Karrimat x 15
unknown lengths of rope x 15
5 litre petrol container x 2
20 litre petrol container
MSR bottle x 5
daren drum candles
daren drum string
daren drum carbide
daren drum 700 + caps
daren drum flagging tape + reflectors
blue drum full of plastic enamel crockery
and metal cutlery
blue drum full of MRE in good condition
blue drum rigging tape
blue drum gray shelter x 2 and pan set
plastic crate of various cable ties / WD40 / tools
capping set
thin blue drum of digging hand tools
tackle sack x 6
empty daren drum x 4

to come out

one blue drum of open food
one blue drum of food to check
huge pile of junk on green tarp
at E side facing into cave
- some items to keep - dry bag, digger bucket



Rope.

Reviews.

Camping good for bunk space, but means lots of water use (fill refugio + campers)

Problematic for refugio when bed spaces unused - they don't like changing for them.
 → e.g. underground camp

Being self-sufficient for water is a big help for the refugio.

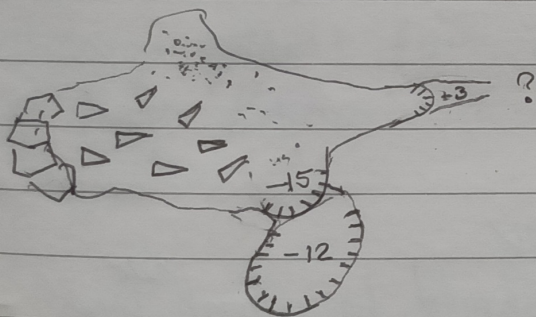
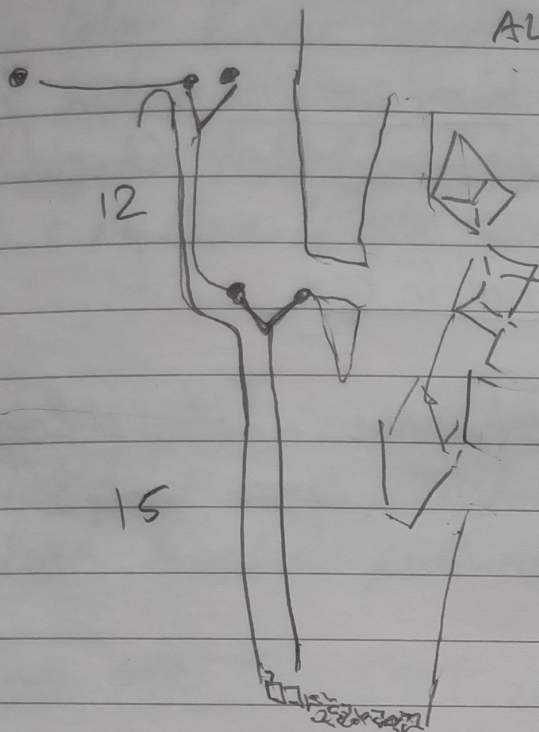
21/08/22

In Xitu:

- Drum of 6mm cord
 - 11 snapgates
 - 8 screwgates
 - 100 + m8 bolts
 - 127 mailons
 - Group shelter (4 person)
 - 18x 8mm drill bits
 - 35 spits
 - 200 + non-stainless through bolts
 - length of thin cord
 - Wire straps
 - 10ish m webbing
 - Drill battery foam cases
 - 2 person decathlon tent (good condition)
 - 2 person cheapo tent
 - 6 full gas canisters (assorted sizes)
 - 4 person (gear) tent in dry bag
 - 70 + caps
 - 2x towels
 - Bolting hammer
 - Reflective tape
 - 25 stainless 8mm through bolts + stainless hangers.
 - 2x tackle sacks (good condition)
 - Green tarp - OK condition
 - 4 x foam mats
 - 2x 25 litre water container
- Daren drum
- Daren drum
- dry bag

21/08/22

BARKER ABSEILED TO 11/5
MEASURED DEPTH 27.6 m TO GRAVEL CHOKE (NO SNOW)
ALL RIGGED ON NATURALS



22/08/22

Mark, Sarah
Tony

Last C4 trip ~~ever~~ of the year.

Gear in cave:

- All ropes (some dedungled) apart from entrance
- approx. 75m new rope in blue bag (no crab) above Cheated Necromancer.
- 168m new rope at Bugger Bognor not in bag
- ca. 15m webbing at Bugger Bognor
- ca. 20 stainless throughbolts, stainless hangers + mailons at Bugger Bognor
- 4 or 5 snapgates needed for deviations between entrance & Monster.

To rig entrance: -m rope + 5 mailons

Ropes re-rigged with new rope:

- Bugger Bognor
- Bottom half of Cat O' Nine Tails

↳ Slightly messy rigging but probably OK.

All other rope in acceptable condition. Should be enough ^{new} rope to replace whatever needs it in 2023.

1st aid daren down below Monster - seemed dry.

Camp stuff at Bugger Bognor

- Tent in good condition
- 9 roll mats (v. gritty - would want more)
- 5 gas canisters (some part used) (no stove)
- Bag of: seeds, cup a soups, tea, coffee etc. (ie. brown stop stuff) - quite a bit, but not enough for overnight.
- 1x 100 roll

- 1 MSR petrol bottle (full) but no stove. Pressurising lid seemed to be working, but would be worth taking a spare

- 1st aid kit.
- Tea lights

1st trip below Bugger Boggor in 2023:

- Add anchor to last rebelay of Free & Easy
- Add anchor to first rebelay of There Be Dragons
- Bolt + rig Marie Celeste for SRT - no ladder please!

Both single-anchor rebelay's v. close to floor.

AWP

Upstream pitch in main stream may want climbing with a belay. Not looked at since 2017. Dave O(?) 2017 report says rope knackered & whole pitch needs re-rigging.

Before 2023: sort Sanctuary survey data !!

Ponder camp options for 2023. TS/MS/AW consensus is camp at Bugger Boggor with similar tent in Sanctuary for brew kit.

23/08/22 More stuff in Xitu

Dry bag containing:

- 4 person (?) group shelter
- Small 1st aid kit
- Blizzard bag
- A load of small waterproof paper pages

All in All
tackle bag

Plus:

- Cord (10m ish)
- 8 x full large gas canisters
- Assorted cutlery (sharp knives, sporks, tin opener...)

23/08/22 Cabeza Muxa ADS

Eighteen marker poles recovered. All reflective markers covered with black tape (bedrock) or cairns tumbled down.

Only cairns on main tracks retained.

58/5

24/08/22

? Rope hanging
YYY

?
(rigged)

Junction

Sandy's lunch box

tape

SQUEEZE

Too Tight

12m?

Too Tight

INLET

~2m

~2m

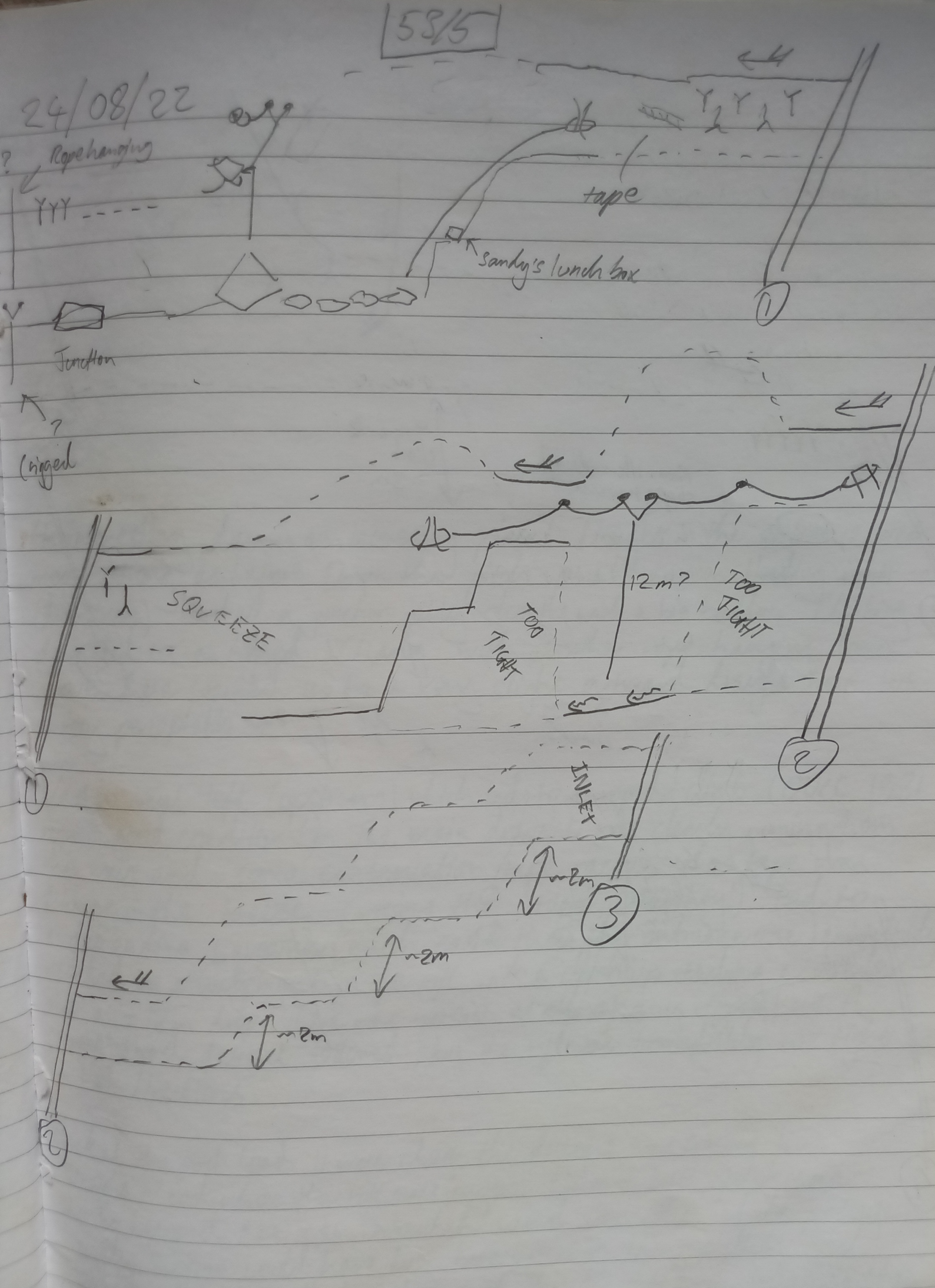
~2m

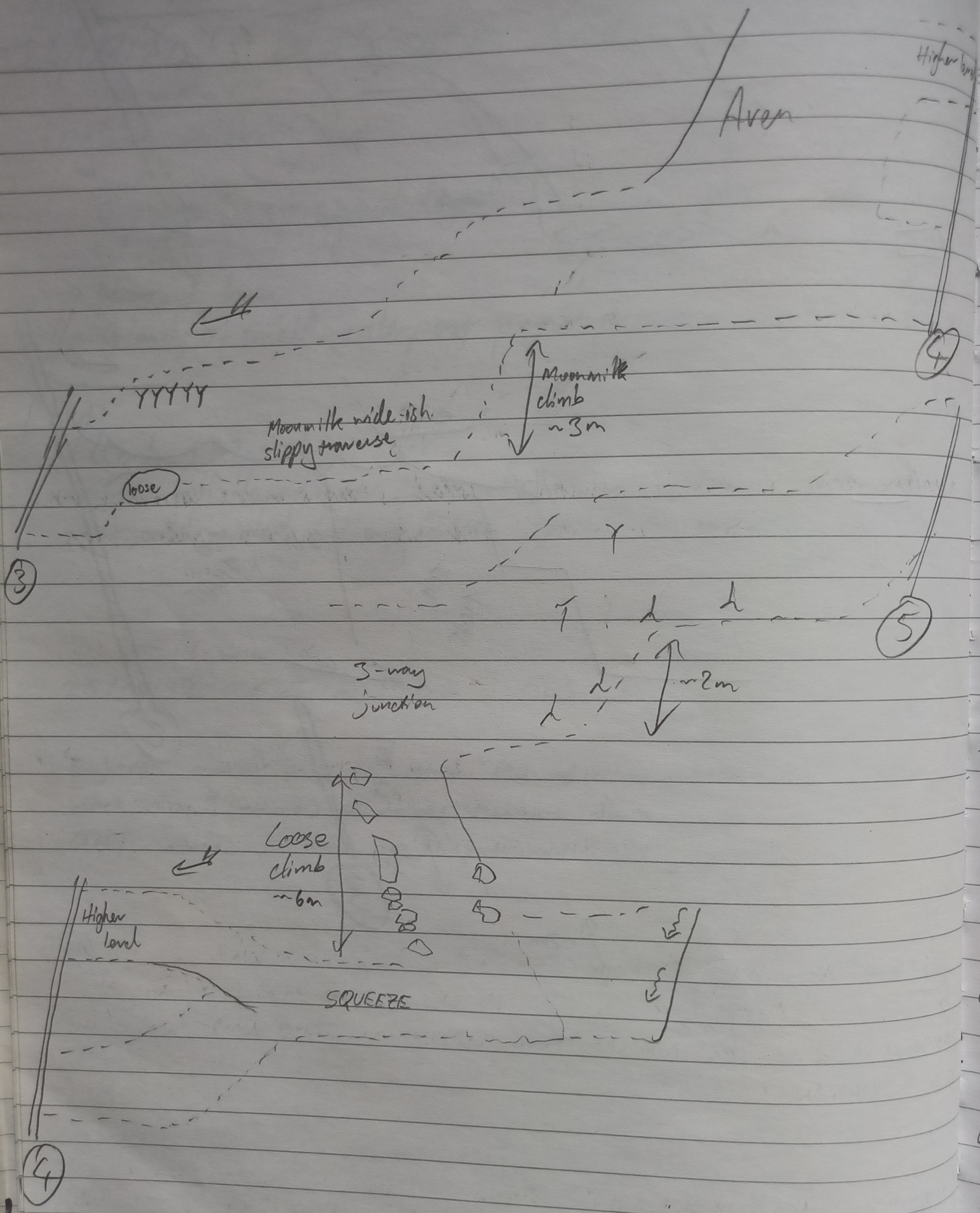
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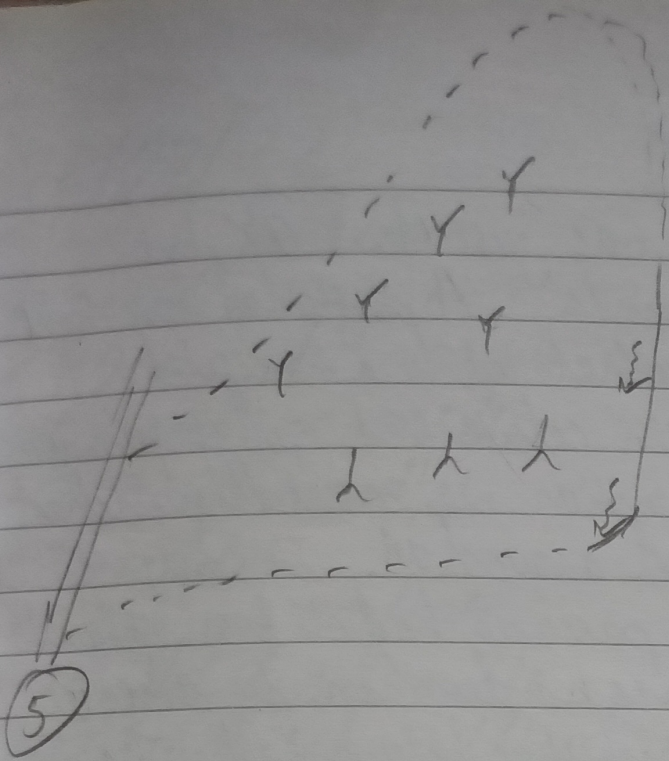
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An interesting day in an interesting place! Draught in the entrance was mega-strong as before. Down the pitch was a bit narrower. Heading right (downstream) reached a junction fairly shortly with a big boulder. Climbing down led to a rigged Xhang with another rope hanging down above. There seemed to be a very slight outward draught here, but barely perceptible.

We then went left (upstream) which led to a roped climb (OUCC 1981 rope - good condition!). The main draught was clearly coming from this way and some conservation tape across the tape was blowing in the breeze. Crossing the tape (naughty!) led to a descending squeeze (much easier than the entrance one) immediately reached an enlargement in the rift with a climb up reaching a window over a ~12m drop. There was no sign at all of any rigging here. A straight forward descent followed, but the rift was immediately too tight in both directions.

Back at the pitch head it was clear the draught was coming from straight ahead where the rift was larger. I move bolt got us there. Shortly beyond there was untouched sand across the whole passage - surely no one could have been here before? Numerous climbs and traverses followed, all the time with the draught and following the

rift upstream. Every obstacle on its own was just about OK, but cumulatively they made for 'foussed minds'. A particular low-light was a ~6m chossy climb, but thankfully that led to a more solid area above. The whole rift was covered in calcite and full of formations at this point. After passing a 3-way junction we eventually reached a high, calcified chamber that we turned around at. It seems inexplicable that the obvious draughting passage hadn't been followed previously, especially when none of it was harder than the entrance rift. But there was no way anyone had been there before, surely. The fact that the cave (and draught) we followed upstream all the way suggests maybe this enormous draught is coming in from a higher entrance ... but there's only 1 way to be sure...

26/08/22

Xitu

- 3x 500g soya mince
- 110 x oats so simple sachets
- 16 x cows cows sachets
- 8x instant noodles
- 33 x soups
- 5x smash sachets
- 4 x dehydrated meals
- 3x dehydrated puddings
- 2x 400g packs of dried onions

All individually sealed & in a dry bag

- 1 bag of herbs/spices/stock (half a large daren drum) ^{or 3/4}
- 2x 200g cashews
- 1x 500g sultanas

daren drum

- 6x semolina sachets
- 2x mustard sachets
- 1 bag jelly sweets
- 1 bag of mints
- 2x boxes of matches
- 15x lighters

clean plastic tub

- 1/2 bag sugar
- honey
- cheese sauce mix
- 2x oats so simple pots
- 1x tub salt

daren drum

- 1x 500g tub instant coffee (unopened)

- 3x part used gas (various sizes)

- lots of sandwich bags (clean tub full)

- 20 x 100 rolls (individually bagged)
 - 2 x 700g peanut butter (unopened)
 - 1 x strawberry jam (unopened)
 - 1 x honey (unopened)
 - 1/2 bag rehydration powder (ca. 500g left)
- Down down
- 3 x 10 or 10.5 mm shaft bushing ropes (ca. 20m each)
 - 9mm sparsat C4 entrance rope
 - Crowbar
 - 6 x OK condition tackle sacks
 - lots of spare tent poles (many with reflective markers)
 - bolting hammer
 - 4 slings
 - 39 x stainless hangers
 - 34 alloy hangers
 - 42 mailbags
 - 40 ish mild steel throughbolts
 - 5 x snapgates
 - Electric fence (some posts damaged but usable)

There are 2x blue barrels + some bags all labelled 'out' (that we left in the alcove at the top of the 1st xitu pitch (below the climb). Presumably this is all to go down to the bin. There is a black dustbin here too, which is NOT rubbish - it contains a communal tent among other things.

At the bottom of the pitch all the stuff on the right is nominally 'good'. The pile on the left has been labelled to go down to the bin.

Next year at least some of the rubbish ought to be taken down...

DATE	PEOPLE	INTENDED TRIP	ETA	CALL OUT	DATE YOU WANT DINNER ATTENDED
9/8/22	Sam Weston Mark Burkley Lisa Woodson Chris Jewell	To sump / camp / photos / exit Mr. Mike B night stay in another night team will update on exit if so.	10th Dinner	11th morning	Dinner for 10th.
10/8/22	Phil Hancock Vlad (Big) Rich Hudson	To the bottom to take kit out, camp, prob do some again on the 11th camp again, take more kit back to camp & exit.	Dinner on the 12th	Breakfast 12th	Dinner for the 12th.
10/8/22	Sam L Shane D Retic	Jal tanga	6pm	Dinner 10th	
11/8/22	MIKE STEPA	BOUNCE TO SUMP - we WILL BE TAKING IT STEADY	EARLY HOURS 12th	BREAKFAST 12th	