### Izgubljeni Raj - Migovec 2011



# MIGOVEC CAVERS



SEKCIJA P.D. TOLMIN





### (2 broken heels)

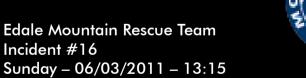


### Jun 24 Fri 12.07 Quaking Pot, North Yorkshire - Cave Rescue

40

A caver (m, 22) fell about 10m when he lost control abseiling down the third pitch, sustaining fractures to both heel bones. Following treatment by CRO he was hauled up the pitches and assisted along the crawls to the surface. A team doctor provided further treatment before the casualty was transferred by stretcher to an air ambulance for evacuation off the hill.

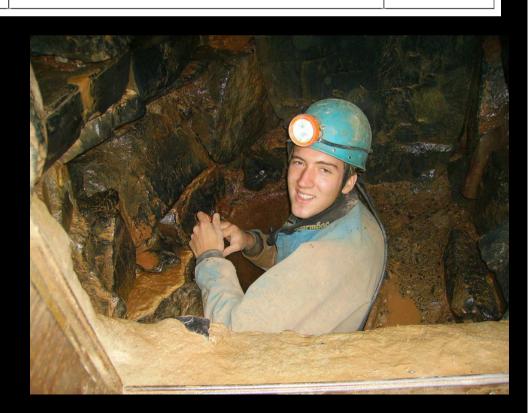
150



### **Fallen Climber**

The team were called to a fallen climber at Froggatt Edge. Whilst soloing at the Downhill Racer area of the crag he fell off and suffered a head injury which induced a short seizure. He was given medical attention by one of our paramedics in conjunction with an EMAS paramedic. After which he was evacuated to the top of the crag and flown to the NGH in Sheffield by Helimed 72.

(10 broken bones)



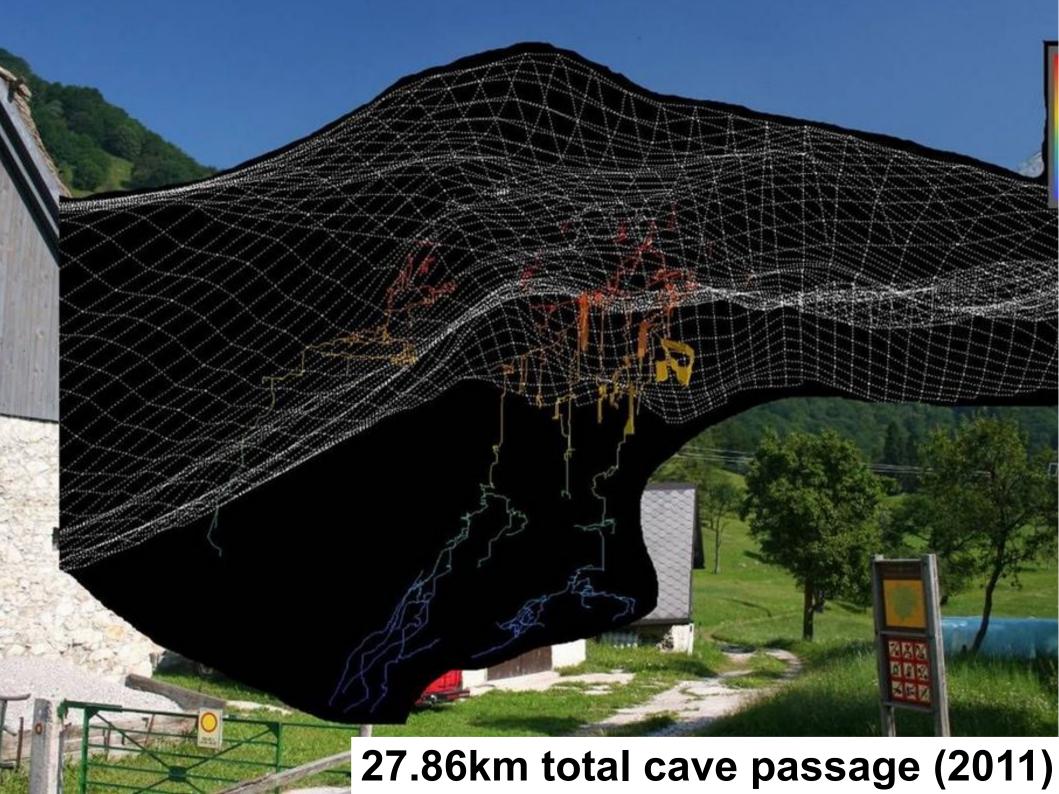
### Talk Structure

- Tolminski Migovec
  - Where? Why? Exploration history
  - Living on the Mountain; Living in the Caves
- Exploration Findings (Vrtnarija)
  - Insomnia: The Deep Wet Lead
  - The Serpentine, Let na Drugi Svet & Lower Pleasures
  - Kamikaze: To the East
- Conclusion & The Future
  - Did Someone Mention the Connection?

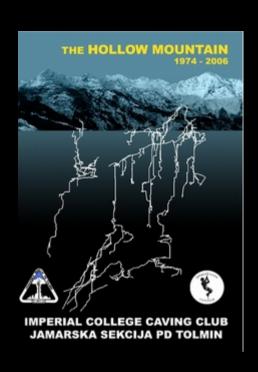




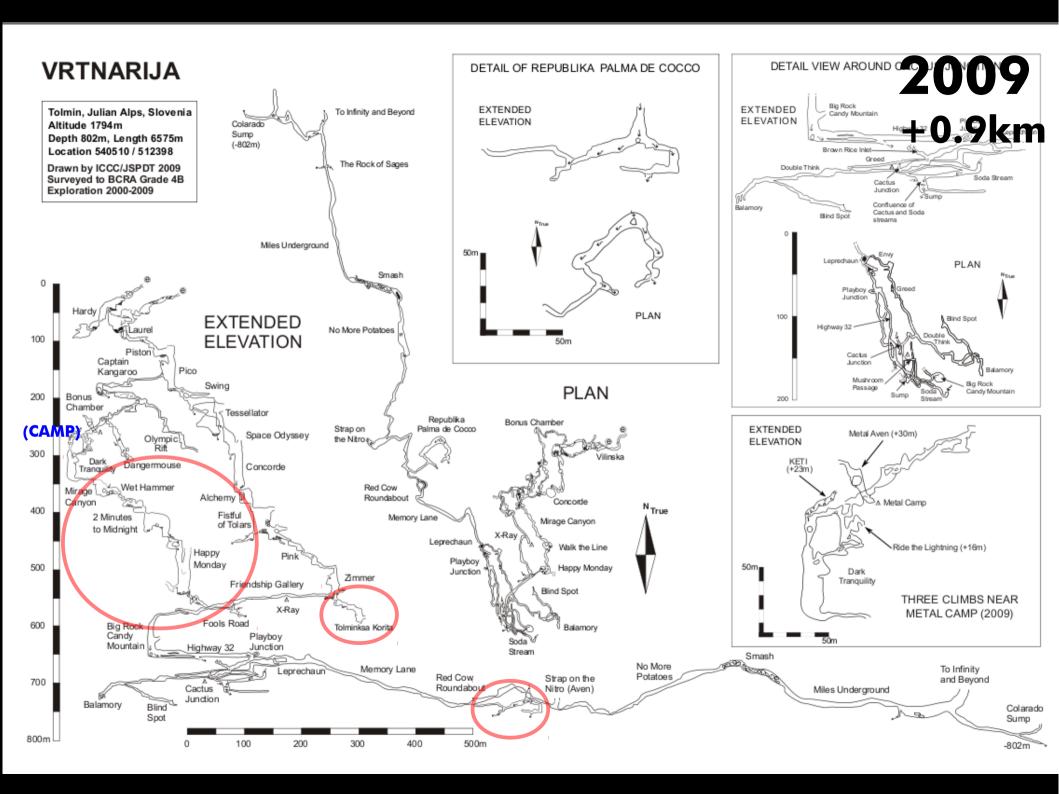




### History of Migovec



- Exploration 1974–2006 covered in 'The Hollow Mountain'
  - PDFs Free & online, printed copies at cost (£6.31+P&P) from Lulu.com
- 2007: New caves on Western Edge of plateau, "Kill 'em All"
- 2008: Rerig. M2 (-350m), concerted efforts pushing Captain Kangaroo



### **VRTNARIJA**

Tolmin, Julian Alps, Slovenia Altitude 1794m Depth 807m, Length 8776m Location 540510 / 512398 Drawn by ICCC/JSPDT 2010 Surveyed to BCRA Grade 4B Exploration 2000-2010

100

200

300

400

500

600

700

800m L

Mirage

Canyon

to Midnight

Big Rock

Candy

### **Guide to the Leads**

**Lead Requires Enlargment** 

**EXTENDED** 

**ELEVATION** 

The Palace

of King Minos

Povodni

- **Open Lead**
- Sump

Space Odyssey

Concorde

Friendship Gallery

100

Falls Road (CAMP) prita

200

300

Alchemy

Happy Monday

Cactus

Blind

Junction

Fistful of Tolars

- **Climbing Lead**
- **Unsure of Situation**



## Living on the Mountain





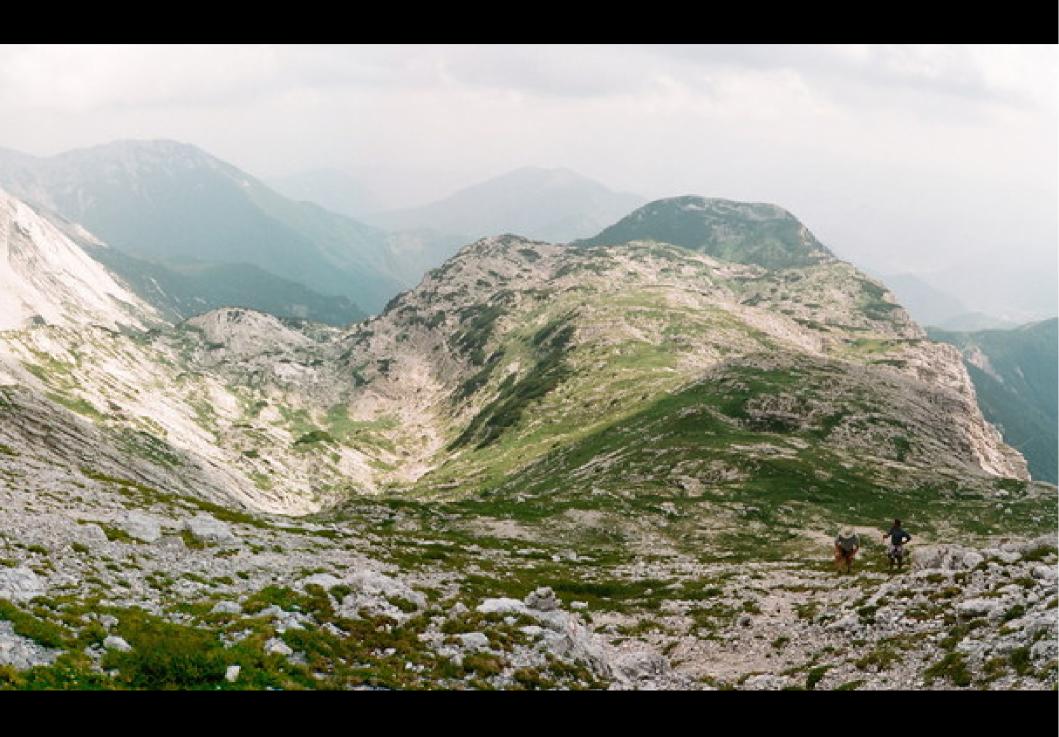




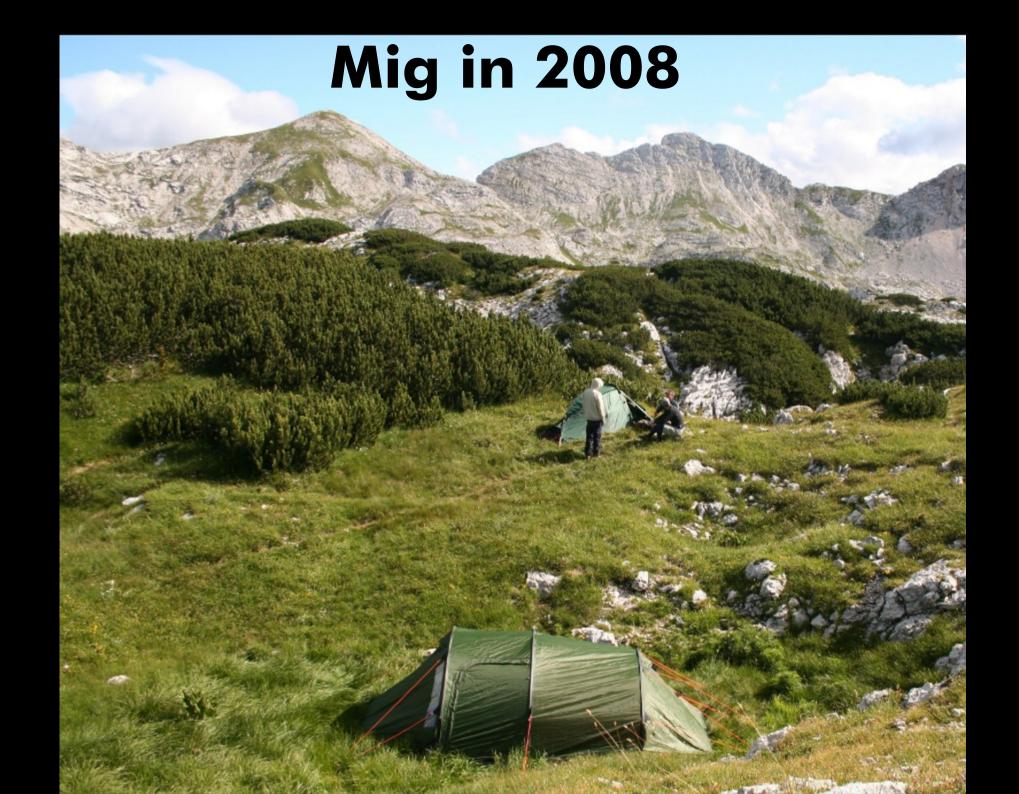
~1km Ascent







# Mig in 1977



# The Bivi



















# Solar Power











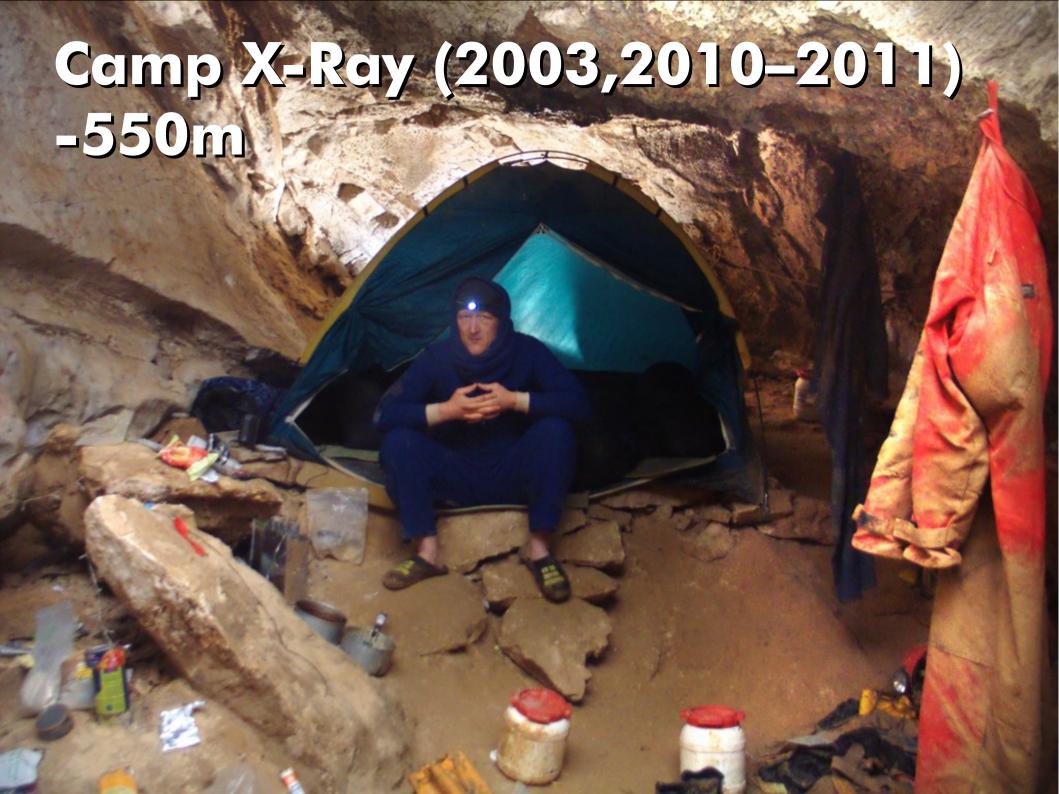




# Snow in July?!

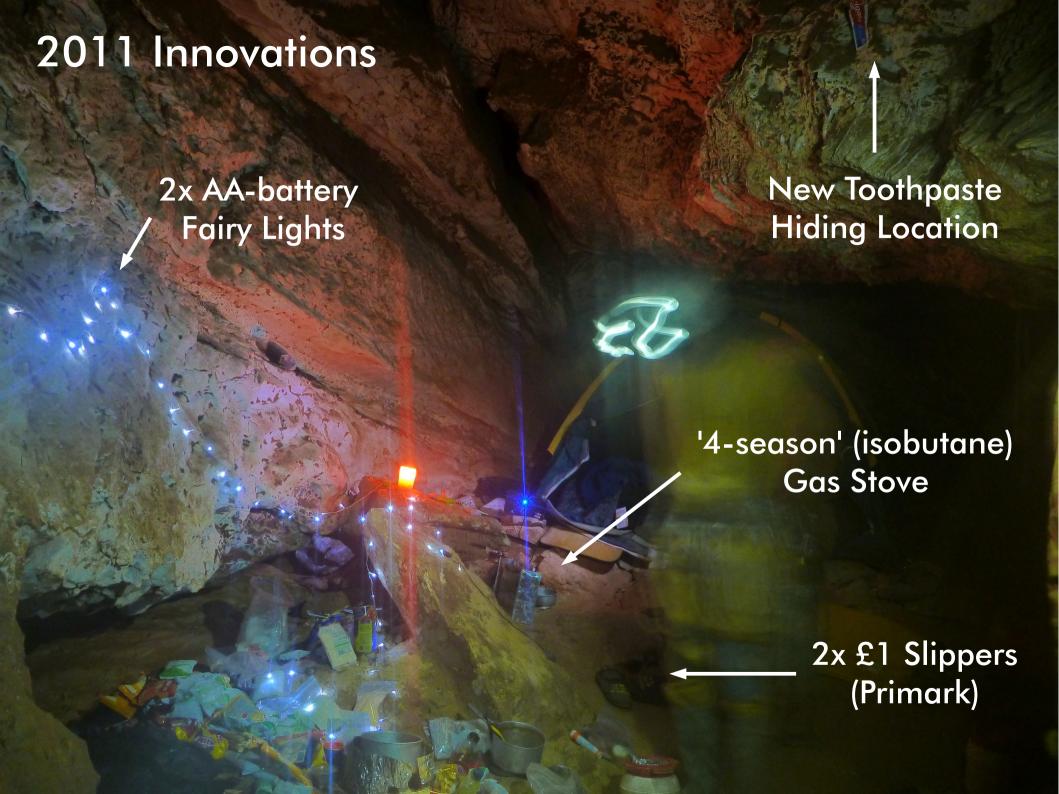












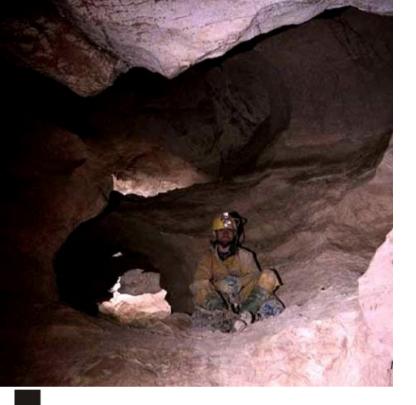
### 'Plenty Comfort' Camp

Rotating 2x2-person 'hot bedding camp' Mostly 2-night 3-day camps (2 work days)

→ 12-cavers continuous @ full capacity

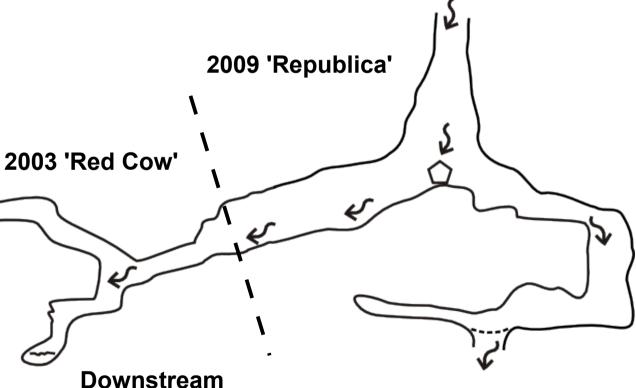






2009: 'Republica Palma de Coco'

2010: 'Insomnia' 58m vertical extension (-802m)



Sump (perched)

10m Divs

Can see 30-odd metres down rift + cascades

### Insomnia: The Deep Wet Lead

- ~4—5 hr return from pushing front → camp
- (Insomnia -802m → Day Dreamers -861m → Penguin's Egg -871m → Winter's Journey -888m)
- Confined passage with stream (wet feet!)
   [Not a good place to be during a rain storm]
  - Great 'Yorkshire' Caving

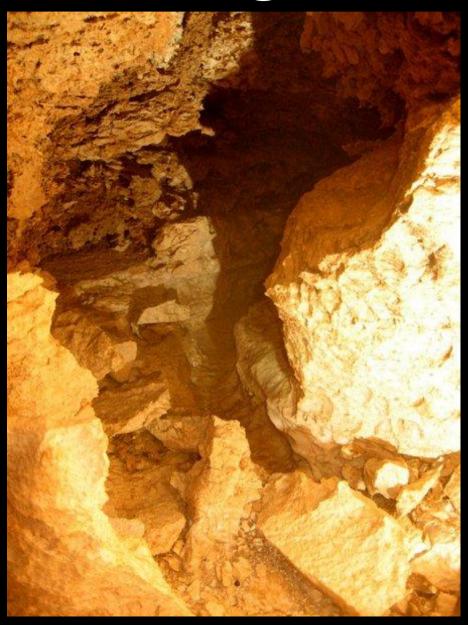




### **Unhappy Ending?**

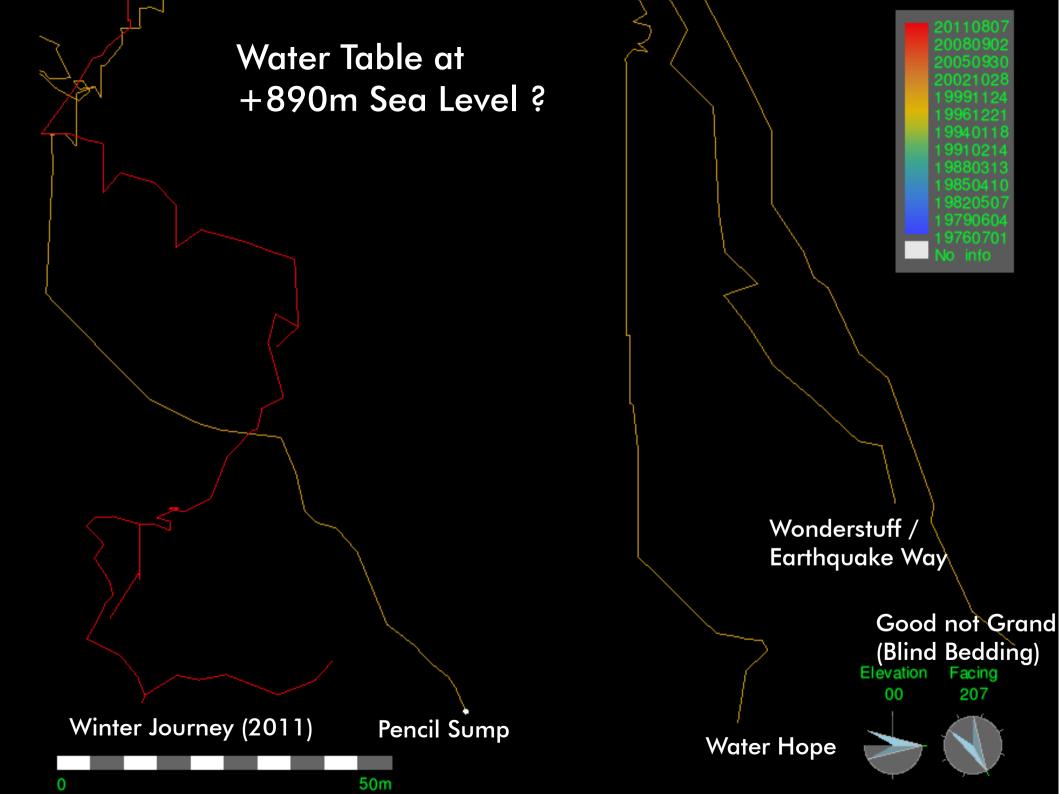
- 3 trips down here this summer
- Wet route becomes impassably tight (@ -875m)
- Dry bypass enters chamber with significant silt deposits, sound of water through too-tight rift
- Draught emerges from too-tight rift and follows 70° inclined bedding NNW
- Hypothesise we're above a (perched?) sump that backs up
- Bedding plane squeeze force-able to a sump bypass?

# Migovec's Usual Tricks



Green Back (Vrtnarija, -297m)

Stalemate (Vrtnarija, -659m)

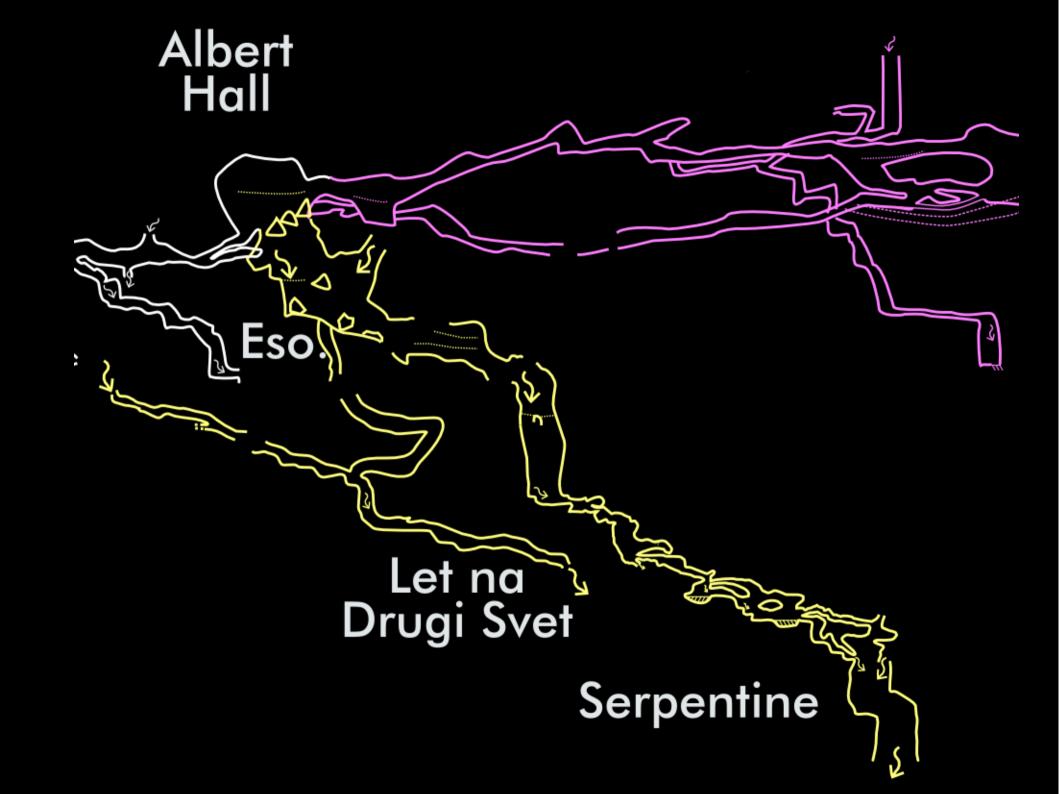


#### Prospects?

- 250m separation between the two sumps in Sysmig & probable (currently inaccessible) sump level in Vrtnarija
- Geology 'best guess' is water table dipping at ~15° from SE → NW
- We have deep leads in Vrtnarija from 2004 that are 800m NNW of the hypothesised sump ... ~100m more depth potential

The Serpentine & Let na Drugi Svet











The Long Water

# Let na Drugi Svet (Flight to Another World )









#### Queen's Bedchamber

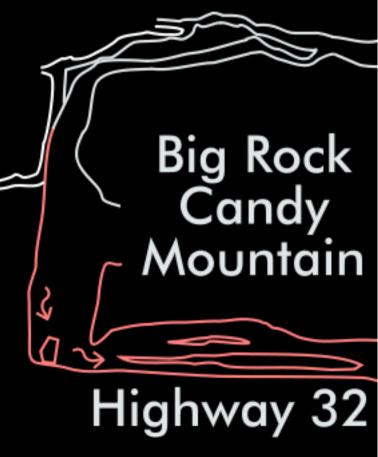
#### Lower Pleasures





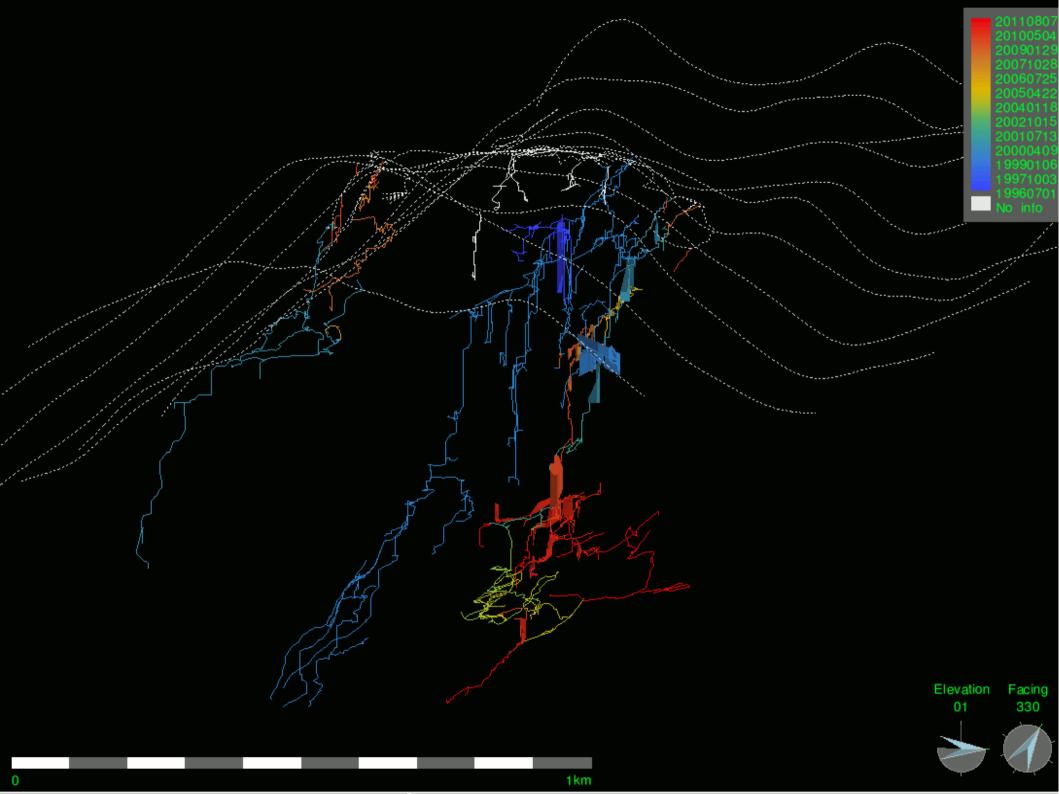
Cheetah Swing

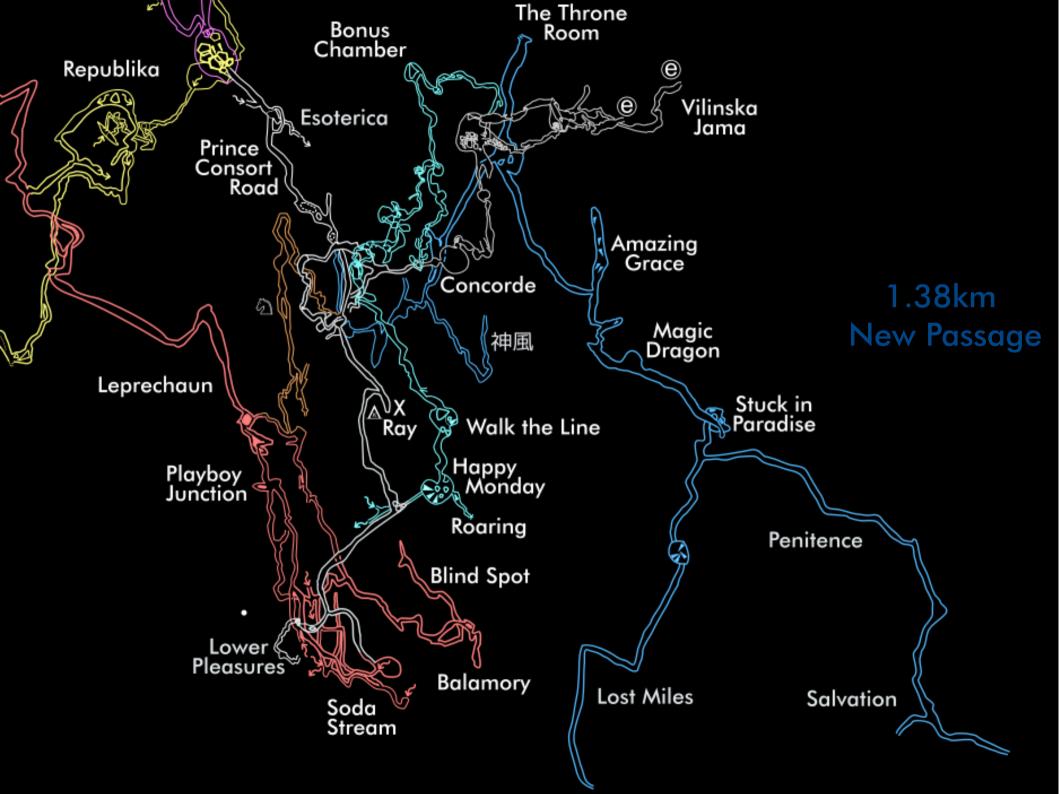
A dig that went!



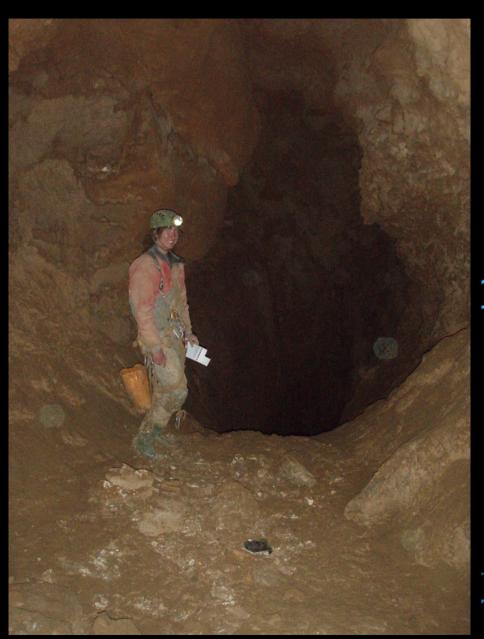
### Kamikaze







### Stuck in Paradise (P69m)



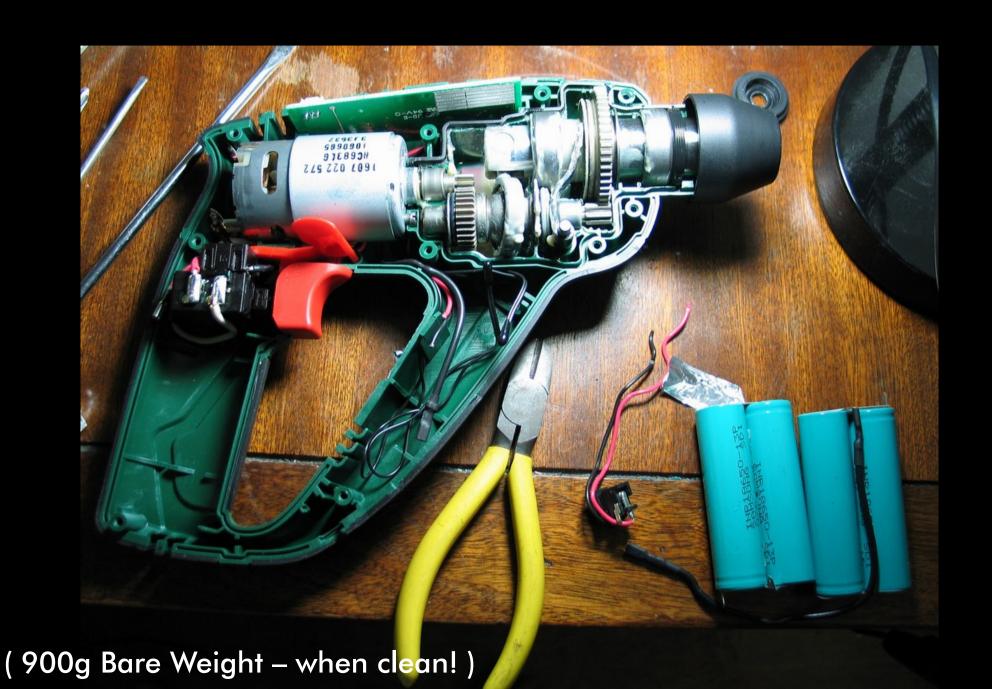


### Bosch's Uneo



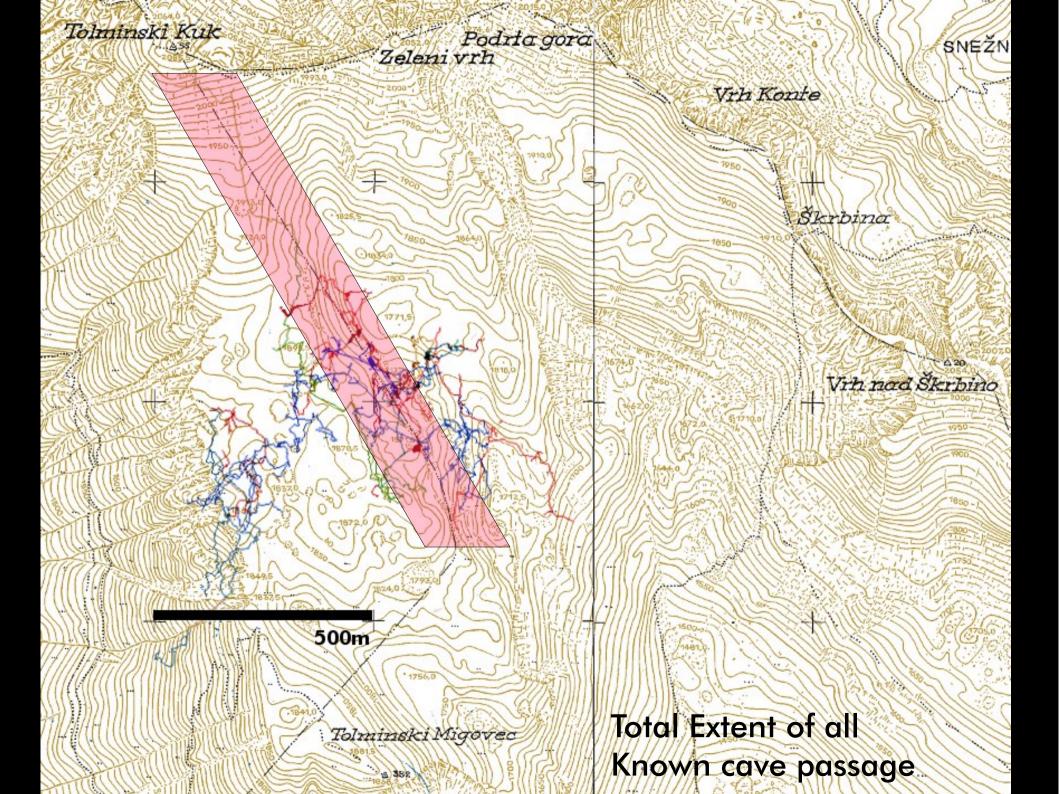
Bosch 'do it' UK

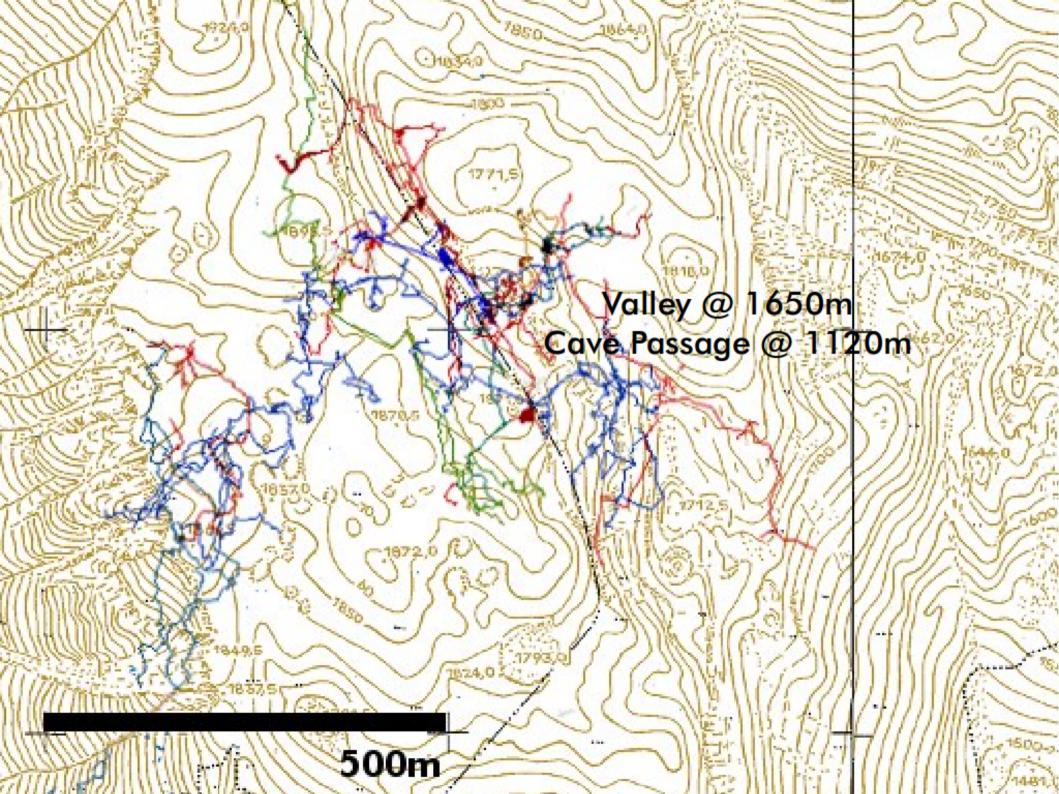
#### A Caver's Uneo



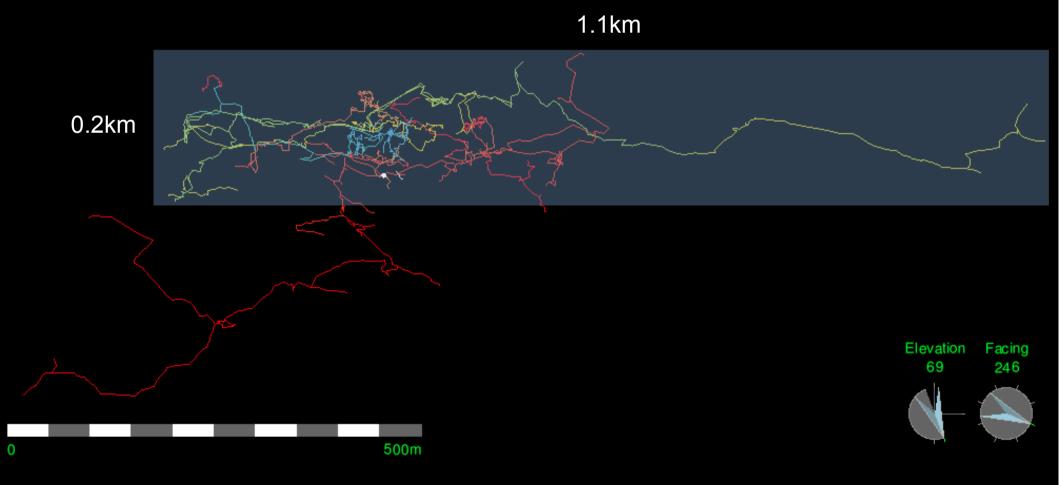
# 50+ Bolts, 200m rigging later...



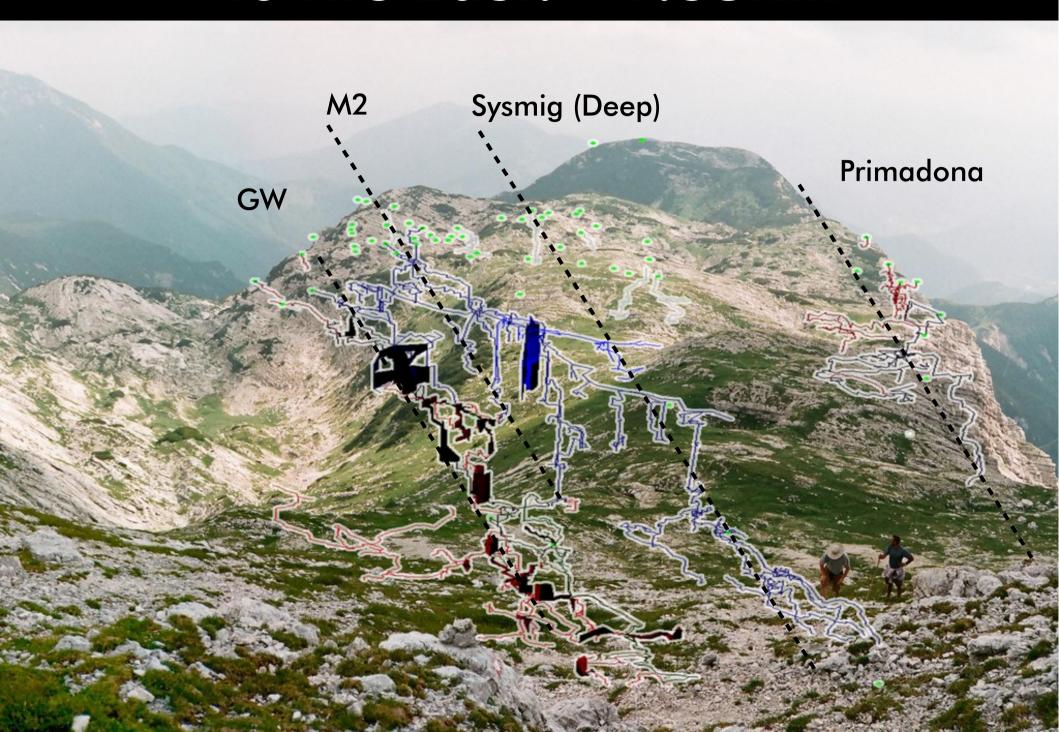




## The Vrtnarija Slab



### To the East! - 1.38km



#### **CaverStats**

- 29 cavers this summer (Aged 19–59)
  - 14 UK-based cavers, 14 Slovene, 1 joint
- Made 77 caver-trips
- 21 cavers spent 77 caver-nights at underground camp

Exploration occured over a 14-day period

#### First Expedition

Four undergraduates on their first expedition

Majority made it to underground camp & pushed cave at >500m deep

→ Training & building experience more important than metres! ←



#### SpeleoStats

- 2009–2011 Doubled Length of Vrtnarija
  - All by exploration deeper than -350m, vast majority on overnight camping trips
- System Migovec & Vrtnarija now #5 & #6 longest in Slovenia (#7 and #10 deepest)
- If joined they are 22.6km (Longest in Slovenia...)

```
Vrtnarija: 2010 → 2011
8796m / 807m → 11025m / 888m
```

Sysmig: (2008) 11.49km / 970m

#### **VRTNARIJA**

Tolmin, Julian Alps, Slovenia Altitude 1794m Depth 807m, Length 8776m Location 540510 / 512398 Drawn by ICCC/JSPDT 2010 Surveyed to BCRA Grade 4B Exploration 2000-2010

100

200

300

400

500

600

700

800m L

Mirage

Canyon

to Midnight

Big Rock

Candy

#### **Guide to the Leads**

**Lead Requires Enlargment** 

**EXTENDED** 

**ELEVATION** 

The Palace

of King Minos

Povodni

- **Open Lead**
- Sump

Space Odyssey

Concorde

Friendship Gallery

100

Falls Road (CAMP) prita

200

300

Alchemy

Happy Monday

Cactus

Blind

Junction

Fistful of Tolars

- **Climbing Lead**
- **Unsure of Situation**



#### **VRTNARIJA**

Tolmin, Julian Alps, Slovenia Altitude 1794m Depth 888m, Length 11025m Location 540510 / 512398

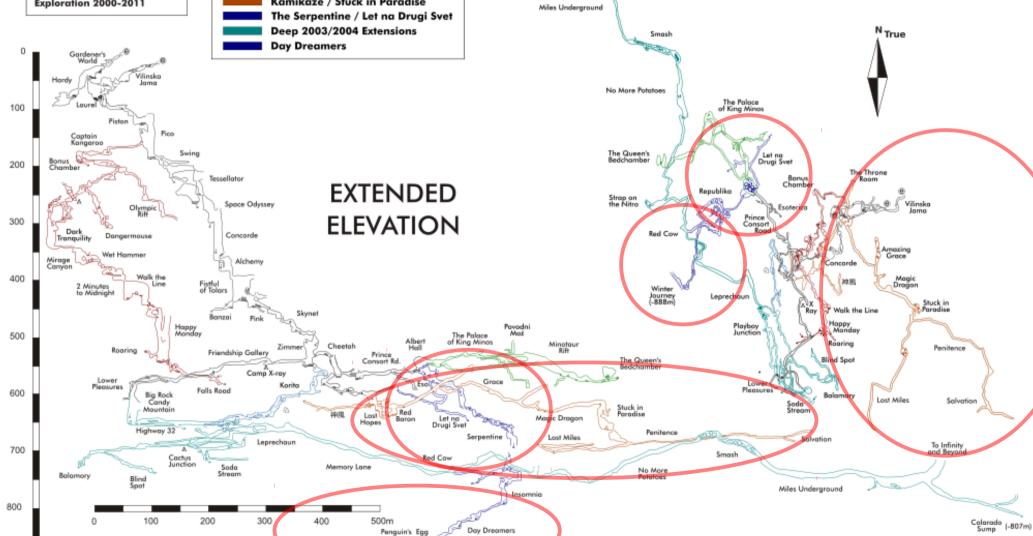
Drawn by ICCC/JSPDT 2011 Surveyed to BCRA Grade 4-5B Exploration 2000-2011

900m



Winter Journey (-888m)





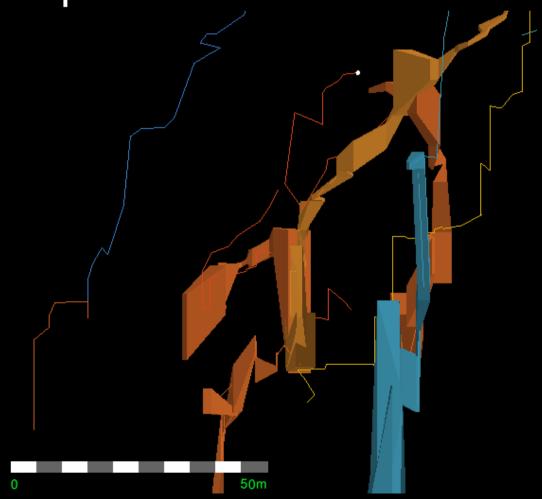
Sump (-807m) To Infinity and Beyond

The Rock of Sages

#### **Did Someone Mention the Connection?**

- Vrtnarija to Kavkna Jama: 25–75m separation
  - Connection has been major aim since 2008–













#### Izgubljeni Raj 2011 – (Derig) Team













#### Acknowledgements

- Financial support from the Ghar Parau Foundation
   & Imperial College Union (Tour Transport Grant)
  - Nia & Jonny assisted by Alex Pitcher awards
- We were the grateful recipients of the Wilhelm Putick Prize (Nagrada Viljema Puticka) for the 'best cave exploration in Slovenia during 2010'
  - → 80W Solar Panel & set of new survey instruments

Gear & support:



Beast, Starless River



http://union.ic.ac.uk/caving/slovenia