

Sternes 2011

SELAS

Kostas Adamopoulos



“STERNES - LEFKA ORI 2011”

Organised by SELAS caving club (Athens)
in cooperation with Romanian, French & Italian cavers
(with the participation of local EOS Hanion and HSS cavers and a great New Zealander)

SPELEOLOGICAL EXPEDITION

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English version (*)

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Compiled by

Kostas ADAMOPOULOS

based on notes and input by **Oana CHACHULA**, Kostas Adamopoulos and **Marc FAVERJON**

Drawing of cover page:

An extract from a spectacular drawing describing the expedition by using the Sternes survey as a timeline, made on the spot and during the expedition by **Maud Faverjon!**

WHERE:

Lefka Ori (Pahnes 2454m) massif, South side of Sternes peak (2339m), Western Crete, Chania, GREECE

DATES:

6.8.2011 to 17.08.2011

(*) French version exist, comiled by Marc Faverjon



Razvan



Kostas



Anne



Katerina



Michalis



Oana



Marc



Roxana



Samuel



Georgia



Vasilis



Richard



Simona



Razvan



Maud



Savas



Adi



Mihaela



Christophoros



Alexandros



Adina



Chloé, Valérie, Alain, Rémi



Tim



Antonis

Member collage compiled by Marc Faverjon

EXPEDITION MEMBERS:

1. Kostas Adamopoulos - KA
2. Oana Chachula - OC
3. Mihaella Sopincean - MS
4. Adrian Sopincean - AS-Adi
5. Razvan Marcu - RM
6. Simona Laiu - SL
7. Alexandros Margiolis - AM
8. Richard Bramley - RB
9. Alain Soubirane - AS
10. Valerie Soubirane - VS
11. Marc Faverjon - MF
12. Anne Faverjon - AF
13. Remi Soubirane - Remi
14. Cloe Soubirane - CS
15. Maud Faverjon - Maud
16. Tim Faverjon - TF
17. Samuel Faverjon - SF
18. Vasilis Tsalos - VT
19. Christoforos Baladimas - CB
20. Michalis Polychronakis - MP
21. Georgia Agellaki Agellaki - GA
22. Savas Paragamian - SP
23. Katerina Hobitaki - KH
24. Andonis Vorrias - AV
25. Razvan Sabau - RS
26. Adina Florescu - AF2
27. Roxana Soreata – Roxana

OBJECTIVES:

1. The “main objective” of the expedition was “Sternes” cave (with a depth of -428m so far) and our aim to continue exploration by desobstruction / digging at -428m
2. Prospections in the area to locate new caves (if lucky to pass the 1000 mark in the area within 2011)
3. Deliver the above in a “carbon neutral” fashion (off set expedition's CO2/GHG footprint)

SUMMARY:

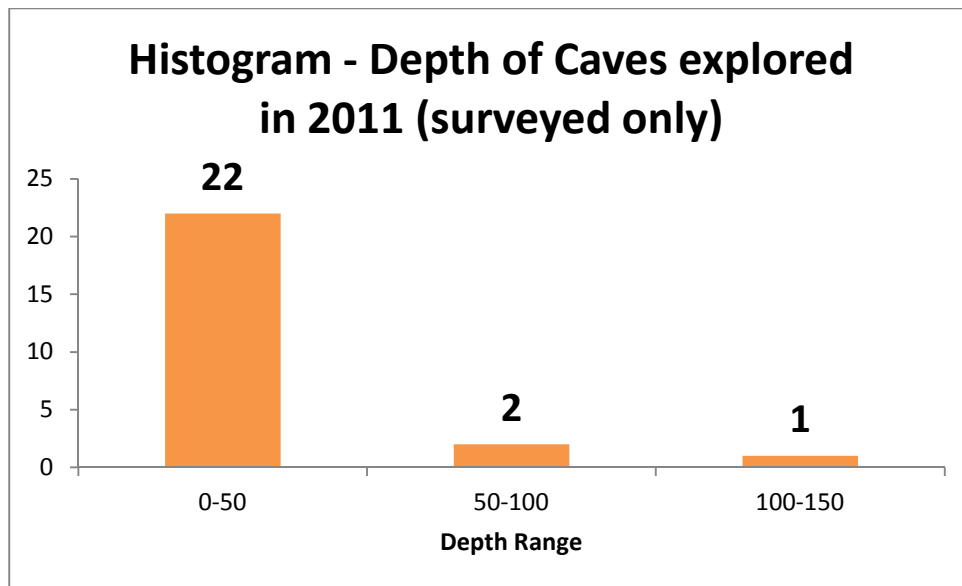
The “Sternes 2011” expedition members were consisted by several nationalities and clubs but they all worked together as ONE team. They spent some great time together and they manage to have a succesfull expedition - as everyone returned safe back home (this is to be always the biggest success) The team managed to proceed by 8-9 meters inside the narrow passage located at the bottom of Sternes cave but they did not went deeper enough as the passage continued to be narrow. The progress was significant but the cave need some more “push” in order to reveal its secrets. The air flow to the bottom remains significant (and it is an intake).

The team in 2011 found 51 caves – excluding Sternes GSO21. These new caves were mainly potholes (puits, vertical caves). In particular 50 caves were found and recorded for first time during 2011 expedition and 1 was found in 2009 but was surveyed during 2011 expedition. In total the team surveyed 25 caves during this summer expedition which lasted 2 weeks. Many of the caves found were not descended but a first estimation of the depth was made by the entrance. The cumulative depth of all caves found / explored was **-889m** (excluding GSO21) and the development was around **1300m** in total.

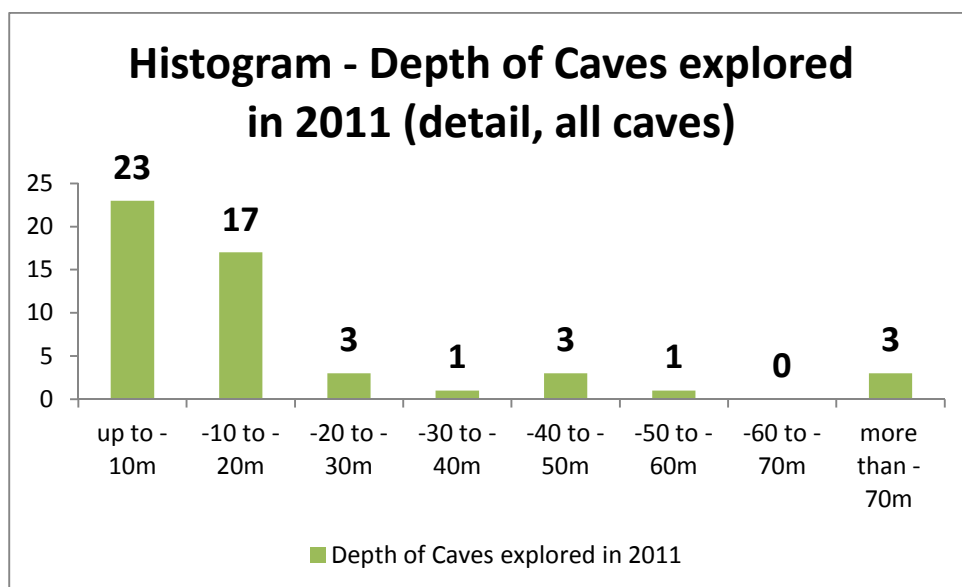
The team moved mainly in the following areas: a) East side of Sternes up to the South – South East side of Mesa Soros peak, b) West side of Sternes but with limitted or zero findings (the area was visited in 2010 by nearly the same team c) North and North East side of Trocharis peak (2400m). In addition to the above mentioned zones, there was 1 cave found outside these areas (towards the E4 path to the Kalergi refuge. The area covered can be seen in the ilustration.

The histogram with the distribution of caves found by altitude can be found below.

Out of the 25 caves that were surveyed, 22 were between -5 and -50m depth. 2 were between -50 and -100m depth and only 1 cave was deeper than -100m (more specifically was -135m)



The majority of the caves found were below -10m depth (45%) and 78% is below -20m depth. There were only 3 caves found with a depth more than -70m. The deepest cave we explored this year was the 11003 with a depth of -135m. Even if we take into account only the 25 caves surveyed in the expedition the statistics will be very similar: 75% of the caves surveyed were below -25m depth.



In terms of our “target” to overcome the mark of 1000 caves the team was lucky enough to see this happening: Since 2003 there is a continual effort in the area from several expeditions many led by SELAS, GS CATAMARAN, SUSS, FOS, SPOK, RRCPC and others to located and explore caves in Lefka Ori. As a result before the beginning of the expedition the number of caves coordinates in the area was slightly below 1000 entries. With the addition of the 52 caves that the team had found the registry of Lefka Ori caves exceeded the 1000 coordinates of cave entrances!



Access to the BASE camp

The road to access the cave and the base camp is a long dirt road which sometimes of the year is not accessible at all (due to snow). Normally would require a 4X4 but no worries if you don't have one: you may come with bus to Anopolis (from Sfakia – Hania) and then ask Nikos (in Anopolis) with his 4X4 to carry you and the equipment up to the mountain. You can also arrange a pick up on your return date. It is not for free but it is by far cheaper than your own 4X4...! Nikos and his brother have their own taverna – the last one when you exit the village of Anopolis towards Aradena – in the cross roads that lead to the mountain. Don't forget to taste **"Sfakian pie"** in the bakery of Orfanoudakis boss. Yiannis Orfanoudakis is a good friend and always keen to assist.



The BASE CAMP

The team had moved mainly around the Base Camp which was located for a 3rd year in the same spot: 200m before the end of the dirt road from Anopolis to Paxnes, on the right side of the road at an altitude of 1930m inside a "gorge like" spot which provides some protection against the wind and the sun.



The camp site in a picture taken from above. The dirt road from Anopolis is visible to the upper right side of the pictures. Tents were deployed as usual as can be seen in the middle of the frame. The camp site was used for the first time in SELAS expedition in 2009 but was firstly found and suggested as a candidate in 2005 by Peter Stevropoulos. The spot was re-used in 2010 and in 2011. Picture was taken by Alexandros Mariolis.



- For proper installation 40-50 meters of rope are required plus some 3-4 plaquettes
- A power generator of 1 KVA is in general OK for the needs of the expedition.
- Cables of 40m in total plus some light bulbs are used for charging and for the night
- A large piece of tent / cloth – home made – it is used to provide some shade and some protection from small stones...
- If you visit the place early there might be snow in the small “gorge”
- A stove is installed early in the entrance of the “gorge”
- There is a small “cavern” on the top of the “gorge” where we store water and other material from year after year.
- Road access is very convenient
- As there is no trees in the area you should better cover the tents with some additional piece of cloth as it is seen in some of the pictures
- The base camp is not covered by GSM signal so the people have to walk or take the car in order to get signal reception for their phone devices



EXPEDITION LOG

Before the expedition: 12-7-2011 to 5-8-2011

The expedition is being organized in a “last minute fashion”. Several issues and incidents (including accidents) didn't allow strong participation from SELAS (selas.org) members. Apart SELAS Steering Committee several SELAS members were contributed to the expedition and we feel that are - in a way - sponsors to our effort:

- SELAS Steering Committee members
- Stelios Zacharias who did take care of several things e.g. buy the ferry tickets and so on.
- Dr. Kostas Iatrou which provided us with lots of his personal equipment and lots of his concern and care about us.
- Oana Chachula – for involving in organization from Romanian’ part; taking care of communication between all involved, motivating people to participate from RO
- Adrian Sopincean, Mihaela Sopincean, Razvan Sabau, Simona Laiu provided their equipment and club’s equipment.
- Lefteris Tzelepis and Margarita Kanellidou provided us with their concern and interest with several phone calls and contributions.
- Tudor Marin, Elena Buduran, Razvan Marc, Roxana Soreata and Adina Florescu – for given support and help in the organization



Departure

Saturday 6.08.2011

- The Romanian team arrived in Greece (Athens). We met at SELAS club around 3:40 pm (6.08.2011)
- We felt like meeting old friends again, we had a delicious meal prepared by Kostas Iatrou and then went to Super Market near by to get supplies for the expedition.

- By the afternoon, 2 cars were loaded with all the material and supplies and we drove to Pireas port to catch the ferry to Chania (ANEK, F/B “Lato”)

Arriving on Crete

Sunday 7.08.2011

- Arrived on Crete early in the morning. It took us an hour or so to get out of the ferry as the peak of the touristic season was on.
- We picked up Richard Bramley (RB) at Souda bay, Chania – around 07:00 am (he is a new friend, a New Zelandar at origin, lives and works in London)
- Our trip to Sfakia was done with several stops (as usual): first to see the White Mountains (Lefka Ori) from the North and take some pictures, then in Vrysses to enjoy a cup of Greek coffee by the river and then finally stopped at Askifou plateau to buy gas for the stove (big metal bottle to be used for cooking). Its good to know that the small super market in Askifou is open on Sundays and the persons owning the place are all the time very kind and keen to assist us.
- At Sfakia we bought some petrol for the generator and finally we made a stop to our favorite place: Giannis & Giorgos Orfanoudakis bakery in Anopolis. There we had breakfast (Sfakian pies) and we bought water, dakos, and some more supplies for the camp. We also left one 1 car there (as it is not wise to drive an Opel Insignia on the dirt road from Anopolis to the camp site...)
- The material and the equipment was off loaded from the Insignia to Nikos’s 4X4 pick up vehicle which for one more time was there to help us with the transportation from Anopolis to the Camp site (23 km dirt road). Nikos does that nearly every day during summer to help hikers, trekkers or tourist to approach center of the White Mountains and its highest peak.
- Once arrived to the camp site (same as the previous 2 years, at 1930 m altitude) we immediately started installing the base camp. This job was concluded around 16:30 and was about the below task performed by all team members:
 - Installation of the main tent to protect us from the sun as there are no trees in the area
 - Installation of the stove for cooking
 - We recovered supplies and material that we stored last year in the small cave (on the top of the camp site)
 - Installation of the power generator (to supply the camp with electricity), 40m of cables and 4 sources of light
- Once we finished with main facilities we all went to set up our personal tents to be ready for the night. When finished we all return to the main tent to officially “open up” the camp. And this was done by preparing our first meal for the expedition and the night to follow.
- Around the “table” we organise ourselves by agreeing We also define responsible person for the rigging equipment (Andy and Simona) who then both immediately started to make an inventory of the equipment
- Finally we all agreed on a sort plan for the next 1-2 days:
 - Our aspiration was to rig Sternes up to -400 in the following 2 days (first step to be down to -240)
- We also shared some first impressions for this years expedition which we wrote down in order to “catch” the feeling of that first long and busy day in the place which was about to be our home for the next 2 weeks:

People's FIRST impressions:

- “Romanian names are hard to remember” - RB
“The landscape is mind blowing” - SL
“Very good team” - AM
“Camp site is very good” - RB
“Everything was right” - RM
“In Crete I feel I come back home” - MS
“The setup is like last year, I hope with the expedition” - AS
“Same excitement like last year, I miss Dakos....” - OC
“Privilege to have Richard with us” - KA

**SAFETY IS THE MAIN OBJECTIVE !!!
WE WANT TO MAKE AN ENVIRONMENTAL FRIENDLY EXPEDITION**

Rigging Sternes – GSO21

Monday 8.08.2011

There was some discussion on why we cannot rig Sternes in 1 day... After a lot of it we agreed that if we will rig the cave in 2 days this will be a success. Thus the target for day 1 (8.8.2011) was set to rig down to -240. Further to that decision we made a plan to attack the cave with 2 teams. Team 1 to rig up to the -140 and another one (Team 3) to rig to -240m target. Another team was formulated (Team 2) to do some prospection in the area.

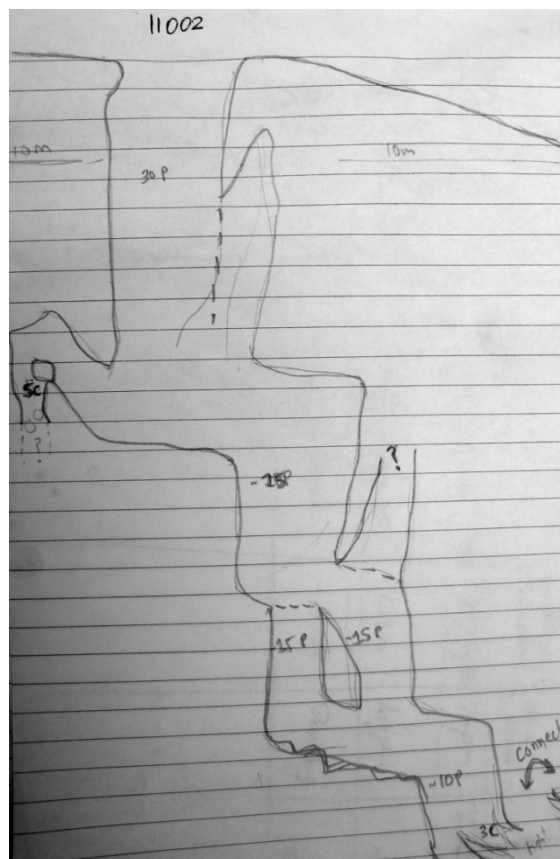
- **Team 1:** Started at 10:45 and returned at 5:00 pm and 8:15 pm. Team consisted of SL, RM, AS. Adi start to rig first pit in Sternes and Simona took over for the next two. The team put the new rope on the 2nd and the 3rd puit. Adi put 4 new spits by using the drilling machine (driller). They rigged until -80m when they 've met with team 2. Adi with Razvan returned to surface after a while, and they reached the camp at 5pm. Simona, continued with Kostas and Team 3.
- **Team 2:** left the camp for prospection at 10.45 and returned 12.20 pm. Team was consisted of MS, RB, AM. They marked a few new entrances (the first for this year) with GPS and took photos of the entrance of 3 new caves: 11001, 11002, 11003. Those caves were found to be close to each other and all VERY CLOSE to the camp. The walked for about 20 minutes, heading SW towards Roussies (SW – of the Sterens peak) and came back on the pathway (that leads to Pahnes peak).
- Descriptions of the caves:
 - 11001 – the entrance is small 40cm diametre. Richard climb down 2,5m, firstly was narrow, but then the cave became larger. The cave has aprox. 25m depth. Possible to use natural amarages.
 - 11002 – the entrance is large 5/10m and was reported at that time to be possibly -25/-30m depth.
 - 11003 – the entrance is smaller than 11002 and possible to have –30m depth. The team found out later that those caves were not explored!!!!
- **Team 3:** At 2 pm – KA, RB, AM: did the preparations for going in Sternes and left the camp. Richard and Alex took some rig lessons from Kostas and they did some exercises. The team reached the entrance of GSO21 at 3 pm. They reach first team at -75m, than Kostas continue with Simona to rig up to -180m. At 6:30pm they reach the point -180m. Simona returned up to -140 and then they formulate a return team with Alex (they were both out by 08:15pm).

Richrad which was following by then, continued with Kostas up to -240m. They both reached the goal of -240 around 08:00 pm and they were out at 09:30 pm. They made a note that the cave requires by 90% coude or AS or similar plaquettes!

Oana and Miha stayed in the camp. At 04:30 pm, they went for some phone calls to ask some missing supplies to be brought to camp by Adina. Sandy beach, food Adi rich the camp earlier and start prepearing some pasta with meat. Besides, there was enough salad, water mellons and romanian wine in the camp !!! During the dinner, we made the plan for next day. The cave was in the hand of a Romanian team, to try to go up -370m. The riging materials were prepared colected and checked.

Tuesday 9.08.2011

- A team consisted of **Simona + Adi + Miha (SL, AS, MS)** went to Sternes (GSO21) to rig until the bottom. They started with 3 caving bags, they did some corrections on the way, then they took other two bags from -140 and -240 so when they stared to rig they were 3 cavers with 5 bags with all the equipment necessary for the whole cave – that slowed them down a lot. At the narrow passage (meander) they changed the rigging. They continued to rig till -320 m and carried and left all the bags with equipment there. They didn't continued because of time. They started to ascent at 9 PM and reached the surface at 01:30 AM.
- **Richard, Alex and Razvan** went to explore the 3 caves found the day before. After discussing a bit they 've decided to rig no.2 first – it was not their "easiest" choice for rigging but it has the biggest entrance which was the most appealing. They worked all together to rig a traverse to begin, and then Richard descended the first puit starting from an uncomfortable rebelay (Razvan and Richard rig and put 3 spits). The first puit was realy "beautiful", a very large 30m free hang. Arrived at a big floor and Alex came down to join at -30m. In the mean time, Razvan went to the entrance of 11003 cave and through a stone which was heard by Richard and Alex (inside 11002) thus they asume that there should be a joinction between the two caves. The sound was heard down bellow the point were the two cavers were standing at that moment (-30m inside the 11002). Richard rigged to a new puit following, aprox 15m, and he returned up. Then Alex went down to check and then all together they ascent to the surface. Richard did an initial drawing.



- In the mean time, responsables for the base camp on that day were Kostas and Oana. Their tasks were the following:
 - Prepare the .xls spreadsheet files for the proper recording of activity during the expedition
 - To make a list with the materials needed by one to install the base camp (not done)
 - Start recording a proper rigging list for GSO21 (not done)
 - Archive of the caves found so far and ensure everything was recorded
 - Make some protection for the power generator (small house made of stoles and a cover for the shade)
 - Carry water from Ammoutsera water deposit “sterna” (using the car)
 - Propection + Exploration (not done)
 - Prepare food: pasta with tuna and dakos salat!
 - Almost all task were done, During the night, Kostas prepeared some desobstruction material and show us how the system work...

At the camp, during the night, **Razvan and Oana** slept into the “cuisine” (and not in their tents), waiting for the team to return from Sternes. They arrived 30 min after the declared return time but within the 4 hour grace period we have all agreed before we trigger a **“cave rescue alarm”**. The team arrived very tired and not satisfied by the fact that they didn’t reach their goal. It seems that the objective was very ambitious. Comment by Kostas Adamopoulos: *“It was to the benefit of the expedition that they didn’t push themselves more in order to achieve their goal. Safety should be first and a goal which is not reached for 50 or 80 meters is not a big deal...Thank you Adi, Miha and Simona”*

Arrival of the French team

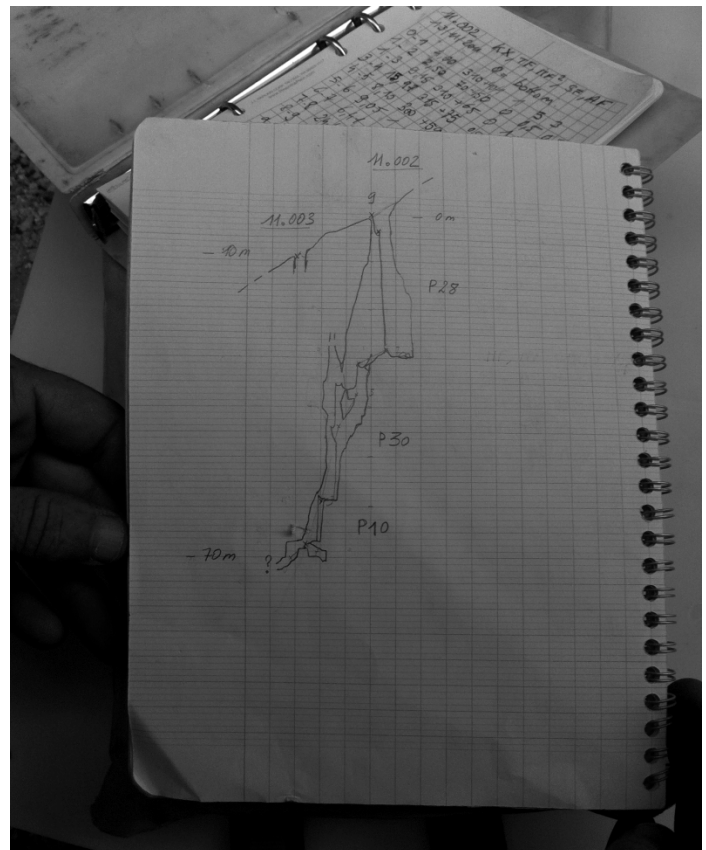
Wendsday 10.08.2011

- It was **Kostas** and **Richard** turn to go down to Sternes cave to finish with the rig. They started to perform minor corrections to the rigging before -240m (started at – 40 actually). After the meander they performed some more changes to the rigging and arrived to the place were previous team left the 3 bags and the driller. The team continued to rig with 4 bags (they had to abandone the driller to the place were they found it because they were “too heavy”. The team continued rigging from -320 to the bottom of the puit when they stoped to reconcile their materials. At some point, they left 100m rope and metals that they assume was not be used. Richard started to rig from that point and both continued with several improvments in last year’ rigging. At that point they realized that although the cave requires nearly only “coude” plaquettes before the -240 level it returns to normal after the meander (60-40/70-30 coude). They stoped at -390m due to time and they return to surface in 3 hours 20 min.
- **Oana, Razvan and Alex** went down to Sternes for training: Alex, Razvan followed by Oana. They entered the cave at 12:20 PM and reached -240m at 14:05. At 14:20, they start to return. The team went very well, and they returned to surface by 16:30 They reported they obeyed all the time the “hearing contact” and “light to eachover” distance principles.
- During the morning was an explosive at the gas bottle from the stove, because stayed to much into the sun. It was a huge sound!

- During the day, **Vasilis from Selas** came together with the French team consisted of 10 people, 2 families with kids: **Marc, Anne with Maud, Samuel and Tim, and Alain and Valerie** with **Cloe** and **Remy**. Our camp suddenly was much more “in motion” and started to change. Alain and Marc made a round table with chairs by stones. Quickly we arranged a european cuisine with soup, salad, rise with vegetables, melon and Romanian wine. That was a great evening!
- **Miha, Adi and Simona**, after a short rest they help the French team which just arrived (new members of the expeditions) to care their bags, start at 16:00 to go in the field and do some prospections, on the area called Troharis (opposite to the camp and Sternes area). They immediatelly **found 4 new caves** wich were recorded on GPS and took pictures of the entrances. The caves were to be around: One of -25m (Adi went down), another of -12m (stone- not explored yet), one of -10m (possible to dig). They returned to the camp after 4 hours (at 20:00).

Thursday 11.08.2011

- At 11:40, Adi, Miha and Simona – went to Sternes to finished the rig up to -430m and do (again) some small corrections on the way down. The team enter with the mission of making some ajustamnents bellow – 240 m and rig the last puit, and it was supposed that there will be time, to work at the end of the cave. They did some adjustamnets on the way towards – 240m, and bellow they improved the rigging of the last pitch and reached the bottom. There they observed the narrow passage, Simona climbed 2 possible continuation spots. Miha entered a meander and after started to ascend caring out all the gear that wasn't to be used any more for the rigging. They started their ascent at 21:00 and they were back at 2 am.



- **Richard, Alain and Alex** – Finished the exploration in 11002 at -70. They did a drawing but no proper survey. Alex de-rigged the whole cave. Then they moved towards a cave near by (11003) which is actually deeper and –as stated - porpably connected to 11002. Alain and Richard started to rig 11003 They rigged this new cave up to -100m! It was consisted of 3 new pitches, down to the depth -75m. The cave finished in a narrow rift. They repeated the experiment with the stones... dropped a stone in 11003 and they heared the rock in 11002, but they did not found any actual conection between the 2 caves. It looks like that they will maybe connected through a narrow rift. There is one small puit near the end of the entrance that could be explored. The first puit is very nice “free hang” descent, but there are some “dangerous” rock at the top. They rigged another big puit, (really one big pitch with a ledge in

between). They called Alex to come down, but he was sleeping and did not heard them! Then, Richard and Alain discovered they had no more spits, so they went up. Because Alex, have not been in the cave and was Richard' last day they decided to return after dinner with Anne!

- A large team started to go on the field for prospection towards the area of "Mesa Soros". On the way the team split into to smaller groups: First: Marc, Anne, Maud, Tim, Vasilis which they found 7 caves (one was already noted by 2010 expe by Felix and Tudor): 11053 (-8m), 11052 (tbe), 11300 (-6), 11301 (20m long), 11302 (-18), 11303 (-7). The second team went closer to "Mesa Soros" and was consisted of: Kostas, Oana, Razvan, Samuel and Remy. They found 17 caves: 11050 (-10m), 11051 (-6), 11053 (-8), 11054 ...could be last year (-40) close to 10557, LO1-4 (10m long), LO1-5 (8 m long), 11055 (-5), 11056 Tudor -25, 11057 (-9) – Samuel, 11058 (-10), 11059 (-8), 11060 (-7), 11061 (-6), 11062 (-11), 11063 (-7), 11064 (-12). Both team returned to the base camp via Rousies after making a large circle around Sternes peak.
- **Richard, Anne and Alex**, after the dinner went back again to continuing the explorations in 11003 (now named "Triploftaki" cave – because of the 3 caves). After going one at the time down the first pitches for safety, they rigged approx. another -15m to a "river bed" which was followed by a big puit. This was rigged easily and was approx. -50m and then stopped at the bottom. The cave was still going (continuing) so the decided that should leave the riggin in place. The team returned to the camp at 00:50 AM.
- The night life at the camp had dinner as the major event... That night dinner had again soup with rise, italian pasta without ketchup (:) and some of the famous local spirit ("raki"). A strong wind started in the area and the temperature went down rapidly. That night was very cold compared to all previous nights. We worked until midnight writing the logbook, general diary of the regitstrate the GPS coordinates and making some drawings of the new caves that we found. At 00:30, the team for Sternes was still in the cave. Razvan and Oana stayed to wait for them. 4 o'clock in the morning was set to be the "rescue alarm" time.
- The wind at night was very strong that broked 2 of the tents. Because of that incident, Oana and Razvan slept into the car.



Arrival of the Cretan team

Friday 12.08.2011

- 08:00 AM - Temperature at the camp was 10 degrees Celsius above zero
- 10:00 AM - **Kostas, Marc and Alex** – went to Sternes (-428m). They did not do any changes on the rigging which is considered OK now and definitely the best compared to previous years. They tried to explore a window below -240m, but is not going anywhere. Worth visiting of course but is doesn't promising much in terms of continuation. There are at least 2 more "question marks" to be checked by the team (with one being Simonas' at -428m). They stayed 10h ½, and got out at 20:30. At desobstruction area they worked 4h ½ - 5h, and they made a progress of ...½ m.
- At 16:00, **Adrian, Miha and Razvan** went in Troharis area to explore the caves that were found 2 days before. They explored the 11005, which is going up to -15m (Miha did a survey, and drawn a map).

During the day, the people from Chania arrived in the camp: **Michalis, Savas, Katerina, Georgia, Christoforos**. Oana and Simona stayed in the camp, walked with Vasilis to do some phonecalls (the Base Camp is not covered by GSM signal so the people have to walk or take the car in order to get reception) and took pictures of the area. In the night we had great grill and celebrate Katerina's birthday with chocolate cake and special cretan raki with honey (rakomelo).

Saturday 13.08.2011

- 10:20 AM - **Oana, Alain and Simona** going in to Sternes aiming to work (desobstruction) at -428m. Alain descended faster and started first to work with the hammer (while waiting for the girls). The team finished their batteries finished very quickly. They worked 5 hours and made a progress of 80cm. in the meantime Simona started another the desobstruction higher than the current digging point.
- 10:00 AM - **Marc, Anne, Samuel, Maud, Katerina** going to 11002 to make the survey and to take some photos.
- **Adi, Miha and Razvan**, went to Troharis area to the caves 11006 (a cave with 2 entrances) and 11007 (the Ice cave) to continue the exploration in both. The cave 11006 was explored up to -85m. At -65m (-70m) there is a small chamber on the lateral part. Miha went in but realised that he needed a hammer before he continue further. He notes that there is a possibility for continuation there. Then, the cave 11007 was explored. The entrance has approx. 12m in diameter and the bottom has ice which is between 0,5 – 4m thick. They climbed down between the ice and the rock up to -12m. After their exploration the cave is considered as finished.
- **Michalis and Savas** – went down in Sternes up to -320m for "acclimatization". We consider this as a good practise for safety (acclimatization)
- **Kostas, Alex, Antonis and Vasilis** – went to 11003 to explore more the window from -70m. They explored the second passage and start to survey the cave and rigg in some points. They did not reached the bottom because did not have enough ropes.

- After 11003, Alex left the camp to return to Athens

Arrival of the second Romanian Team

Sunday 14.08.2011

- 10:40 AM - **Adi, Miha, Razvan M, Anne and Katerina** – went to Rousies area and found 16 new caves; they did surveyed 2 of them, one -45m and another one -50m; They also found 3 more new caves which they did not marked with the GPS but with “stones”; all going down about -20m and need to be marked and explored of course.
- 11:00 AM - **Marc, Maud and Alain** – They went to 11003 to finished with the exploration and do the survey. They also took some pictures. The total length of survey was 270m of survey and they explored 2 puits inside the 11003 (-60m & -35m)
- 11:15AM - **Kostas, Simona L, Michalis and Savas** – went in Sternes at -428 again worked at the bottom. They made a progress of 1m. When finished they went back in 2 hours and $\frac{3}{4}$.
- 12:00 AM - **Antonis and Vasilis** went to Sternes (up to -140m) for their acclimatization.
- 17:00 PM - Then **Antonis and Christoforos** went in Triploftaki to visit and for Christoforos to practise. (down to -50m)

During the day, the second Romanian team arrived: **Adina, Razvan and Roxana** and brought with them a lot of Romanian' specialities. The night was indeed a ***“Romanian night with Indian flavour and Cretan raki”*** with sausesges, cheese, wine and raki. Oana, wanted to celebrate (in advance by one week...) her birthday (23.08) and prepared some Indian food (jeera rise and masala vegetables) and a cake. After the Sternes team arrived (Kostas' last night) we celebrated our amazing expedition with a bottle of champagne! ***(this is manily French habit isn't it???)*** It was indeed a multinational expedition!

Swimming by the sea (with the exception of the Sternes team)

Kostas & part of the Cretan team departed.

Monday 15.08. 2011

- 08:30 AM - **Anne and Katerina** went to Triploftaki to visit up to the top of the last pitch. As it was Katerina's last day she wanted to see the best cave we found in 2011 before she departs.
- 10:30 AM - **Marc, Maud, Alain and Savas** went to Sternes. They continued digging of course and progressed another 0.5 m They worked mainly with hammer as they had issue with the other techniques used. They returned earlier (return hour was set to be 19:30); On their way up the “cleaned” the puits from stones, bottles and telephone cable; They observed that the wind inside the cave was very strong; at -240m the wind current was as strong as to the bottom of the cave.
- 12:00 AM - **Razvan S, Adina and Antonis**, they have been to exploring the last question mark in Triploftaki (11003), the parallel puit up to -40m. The cave is ended with a small chamber;

After that, they continuing to do the prospections in Sternes area and discovered another new cave wich was marked on GPS.

For those who are for one week in the mountains is the rest day and swimming day (Adi, Miha, Razvan, Oana, Simona Anne with Samuel and Tim, Vasilis). Kostas left the camp together with Chania team (Cristoforos, Georgia and Katerina) + Michalis. **Oana was nominated to be the leader for the remaining of the time.** As every year (it is a tradition now...) after swimming at Iligas beach we had a great meal to the taverna next to the beach. *"The camp it will not be the same without Kostas"* Oana said. Hope that we will manage to have good results as in first week. During the night Marc try to do another kind of "bum bum" and tested. The Sternes trip of the day was "unsuccesfull" because of that. After the tests, Vasilis and Razvan Marc stayed until 2 am to make 11 more "bum bum". One team for Sternes (for the next day) was established: **Simona, Anne and Razvan M.**

Tuesday 16.08.2011

- 10:00 AM - **Anne, Simona and Razvan M** – they been to the bottom in Sternes and after some very good "bum bum" a very big rock was dislocated and a progress of 1m-1/2m was achieved!!! Then the passage was enlarged. They worked 4 hours and they had a lot of fun! They were now only 1m away from the "large space" which we were seeing for days. They returned to the surface in 4 hours ½ .
- 11:00 AM - **Michalis, Savas and Maud** went at 11003 to derig (colect the material). At 12:00 AM a second team went to 11003 just to visit (**Oana and Antonis**) and assist. They went down to -70m were they met with the first team. Michalis finished derigging by 13:30. At 15:00 they were all back to the base camp.
- 12:00 AM - **Adina and Razvan M.** went at -240m in Sternes in order to enlarge the narrow passage there (-240m). They digged 2 and ½ hours and manage to enlarge a bit more 2 places in the meander.
- 12:00 AM - **Marc and kids, Miha, Adi and Vasilis** went for prospection in Troharis area. First they went at **1111 cave (Samuel's cave)**, wich was discovered on the 14/08/11 and they explored the parallel pitch from -15 to -45m. Adi and Martc equipped with spits and natural anchors and together with kids they explored the new branch of the cave. Miha went down in **1114 (Ice' cave, -14m)**. The layer of ice is 2-4m thin. After the puit of 14m , the gallery is ascended, reached a small chamber with 2 horns (avens). Tim found a new cave (**11307**) were Marc and Adi went down up to -38m. Cave was fully explored and surveyed (finished). This cave was recorded also on 13/08/11 by Razvan Marc, so the coordinates need to be checked. Miha revisitted the 2 caves found by Anne 2 days ago and they are both now marked as **11304 (PS5 know already)** and **11305 (-10m)** and found a new cave, which was marked by Marc as 11308. This is going down approx. by -15m but was not descented.
- During the night, after the Sternes team got out, were a lots of disscussions, because of the lack of desobstruction material. The team decided to call Chania' guys (EOS Hanion team) to bring more, because it worth to work harder in the last days

Wendsday 17.08.2011

- The team of Sternes left the camp at 10:30 AM. **Marc and Adi** did one hour to the bottom and dig one hour with the hammer. After the other came (**Adina and Antonis**) , they dig for another 1 hour with the hammer and then used 1 “bum bum” and they progress 1m more. This was easy the rock were much “softer” than before. After that, they found another narrow passage into meander but with “harder” rock this time. They used 6 “bum bum” (just 3 worked though). After they make it larger, Adina got into the narrow passage by something like 3 m, but unfortunately was finished. The cigar’ smog was stuck on the bottom of the gallery which is like a diacase high and became narrow. The team decide that the objective of the year was accomplished and decide to derig. At 18:00 pm, Marc start deriging the first -70m from the bottom and got out with the caving bags.
- 11:30 AM - **Roxana and Razvan Sabau**, went to Troharis and Roussies area and found 2 new small caves, which were recorded as 1125 & 1126.
- 12:30 AM - **Oana and Simona** went also for prospections after Rouskies area, on the main path way to the alpine refuge. They found - close to the refuge - on the right part of the path way a new cave which was marked as 11200. The cave was marked and surveyed immediatelly (7m developement).
- 16:30 PM - **Miha, Razvan M, Anne and Samuel**, went in Sternes area to the new caves that were discovered in first day. 11001 was targeted so after after they equiped, Miha, Anne and Samuel went down to -17m. Miha did the survey on the spot. After that, they discovered another new cave 1127, and Razvan explore it. 1127 finished at -17m too.

Thursday 18.08.2011

- 10:00 AM - **First team (Anne, Marc, Adi and Razvan M.)** went down to Sternes to finish with the de-rigging. On their way up the team 1 they passed 3 kit bags through the narrow passage and then up. They ‘ve met with Team 2 (**Simona, Razvan S, Vasilis, Oana**) going down to the 90m puit and than Simona to the 60m puit, followed by **Vasilis** at the head of the puit with the window together with **Oana**. Razvan S. who went inside the cave around 13:00 and start de -rigging from -240m. Simona entered around 14:00 and was waiting for Razvan at -140m. At 15:00, Oana and Vasilis went in Sternes up to -80m to wait and help the others with the caving bags. At the bottom of first pit from the entrance they meet Anne and Marc. The timing was very good because at -80m , they stayed just 20 minutes until meet Razvan Marc, Adi, and after Razvan S and Simona. After Razvan S arrived, Vasilis left with a caving bag, followed by Simona up to the window from -60m. Then, Oana followed her with her caving bag and got outside. Razvan S and Simona remained to de-rig the rest of the cave. Razvan M and Adi, got out at 16:30, and at 18:00 all the cave was done. A huge help give the rest of the ladies from the camp Miha, Adina and Roxana, wich did a “rescue special style” with scripets to get out from the cave the bags from the bottom of the first pitch. So, thank you! After Marc and Anne got out of the cave, they went with the kids on Pachnes peak for visiting.

During the night we had a great time together (Marc’ last night) with great food again and a lots of presentations about caves, places and expeditions until midnight.

Anne’ impressions of that night and the expedition: “ *My impressions of the camp are : very*

nice to be different countries, to be mixed men & 8 women. I appreciated in particular the kindness of everybody. We felt very well welcomed in that camp even if we joined something already well established. We enjoyed the socialization place where we are great food and watch brilliant films, foto from Romania and much more.....A big thank for those who take time to organize the camp, food shopping water, power generator.....If I may, I would complete the material camp with 1 bag from the cave and another one for the camp for any small coffee morning.....Thanks, take care and..... See you soon!!!!"

Friday 19.08.2011

- Early in the morning, Marc' family left the camp... So, we did another photo group. Nikos from Anopoli – with his 4X4 which is helping us every year - came after them. Suddenly the camp was almost empty. Marc, Anne and the kids (Maud, Samuel and Tim) represented a lot for this camp as worker and contributed to the warm "atmosphere". Maud did some amazing drawings of expedition – revealed the night before.
- The Romanian team together with Vasilis decided it to visit Pachens peak (2454m) and do some prospections in the area. They made 2 teams: **Miha, Adi, 2 Razvans, Adina, Roxana** and second team **Oana, Simona and Vasilis**. They meet each other on the peak. The wind was very very strong over there. The prospections had no results (as all previous years, as Pahnas are covered by large gravel which most like blocked every single entrance in the area). The first team decided to return from the South side of the mountain (not from the path) but with no success in finding any caves even. "*The limestone is not black but no caves*" they commented. They returned in the camp around 16:00 and started to reinstall their equipment. Every caving material was visually inspected and packed.
- A very strong wind started in the camp (and the mountain of course). We started to pack one by one pieces of the materials of the camp, as we realized that, one more night in the camp could be catastrophic (because of the heavy wind). So, we packed everything and at 22:00 we were all down to Anopolis. This was the end of the Expedition Sternes 2011. An expedition we all enjoyed so much!

LEVKA ORI 2011

Hello darkness my old friend,
I've come to talk with you again,
Because a wind is slightly blowing
In the body of Levka Ori
And the vision that was planted in Kostas brain
Still remain, dreaming of ... sound of caving

Hello Annapolis dear village
I've come to cross you again
Because your beauty's strongly calling me
Because mistery in your mounts intrigues me
And some cavers have danced inside you for 3 years
Now they invited us, to share ... the dream of caving

And there people dug and dug
Inside the narrow road of Sterness Hole
With a boum boum of coffees' straw
With Vasilis up at nights alone
And the vision of a deeper cave obstrued my mind
While swinging the ... transe of caving

And in one night of august i saw
Ten thousand stars maybe more
Cavers talking without resting
Cavers eating sausages without fattening
And the full moon brightening in the sky agrees
To believe in... the sound of caving

All the people worked together
In the world of caves agreed
After 10 days of constant efforts
The narrow passage blowed away
Showing the cavers another hard passage
Giving a chance to hear again the ... sound of friendship

Hello darkness my oldfriend
I've come to talk to you again
Thanks to the international team
Thanks to the heart of Crete country
Blessing for Kostas and his one thousand caves
That splitt the mount, and give the ... wish of caving.

august 2011, Anne

Table of Caves and Short descriptions

Nr	Code	Easting (decimal degrees)	Northing (decimal degrees)	Altitude (m)	Area	Year Found	Depth (m)	Development (m)	Surveyed (Y/N)
1	1104	24.05105	35.29378	2072	Troharis	2011	-15	15	No
2	1105	24.05085	35.29378	2088	Troharis	2011	-6	6	Yes
3	1106	24.05082	35.29338	2088	Troharis	2011	-85	85	Yes
4	1107	24.04963	35.29338	2113	Troharis	2011	-12	12	Yes
5	1108	24.05002	35.29234	2254	Troharis	2011	-45	45	No
6	1109	24.05083	35.29248	2051	Troharis	2011	-50	50	No
7	1110	24.05037	35.29175	2053	Troharis	2011	0	0	No
8	1111	24.04954	35.29078	2083	Troharis	2011	-40	85	Yes
9	1112	24.04973	35.29187	2096	Troharis	2011	-5	5	No
10	1113	24.04989	35.29189	2094	Troharis	2011	-9	9	No
11	1114	24.04947	35.29125	2103	Troharis	2011	-14	22	Yes
12	1115	24.04941	35.29122	2096	Troharis	2011	-10	10	No
13	1117	24.04826	35.28969	2098	Troharis	2011	-44	44	Yes
14	1118	24.04725	35.28888	2101	Troharis	2011	-20	20	No
15	1119	24.04649	35.28931	2153	Troharis	2011	-10	10	No
16	1120	24.0465	35.28947	2158	Troharis	2011	-10	10	No
17	1121	24.04627	35.2893	2163	Troharis	2011	-6	6	No
18	1122	24.04704	35.28985	2154	Troharis	2011	-7	7	No
19	1123	24.04797	35.28997	2126	Troharis	2011	-7	7	No
20	1124	24.05863	35.29079	2023	Sternes	2011	-10	10	No
21	1125	24.052406	35.288287	2097	Troharis	2011	-10	10	No
22	1126	24.049206	35.285657	2097	Troharis	2011	-4	4	No
23	1127	24.057999	35.291241	2164	Sternes	2011	-17	17	Yes
24	11001	24.05785	35.2912	2047	Sternes	2011	-21	21	Yes
25	11002	24.0576	35.2912	2049	Sternes	2011	-73	83	Yes
26	11003	24.0576	35.29107	2049	Sternes	2011	-135	265	Yes
27	11050	24.06059	35.29161	2008	Sternes	2011	-10	10	No
28	11052	24.09173	35.30621	2010	Sternes	2011	-10	10	No
29	11053	24.05976	35.30047	2079	Sternes	2011	-9	9	Yes
30	11055	24.05844	35.30859	2103	Mesa Soros	2011	-5	5	Yes
31	11056	24.05992	35.31054	2113	Mesa Soros	2011	-15	15	Yes
32	11057	24.05909	35.31021	2135	Mesa Soros	2011	-9	9	Yes
33	11058	24.05868	35.31018	2145	Mesa Soros	2011	-10	10	No
34	11059	24.05853	35.31027	2153	Mesa Soros	2011	-8	8	No
35	11060	24.05853	35.31024	2156	Mesa Soros	2011	-7	7	No
36	11061	24.05829	35.31037	2167	Mesa Soros	2011	-6	6	Yes
37	11062	24.05806	35.31097	2202	Mesa Soros	2011	-11	11	No
38	11063	24.0581	35.31074	2181	Mesa Soros	2011	-7	7	Yes
39	11200	24.03503	35.31566	1960	Svourixti	2011	-7	7	Yes
40	11300	24.05767	35.30788	2141	Sternes	2011	-6	6	Yes
41	11301	24.05729	35.30902	2179	Mesa Soros	2011	-4	17	Yes
42	11302	24.057	35.30907	2167	Mesa Soros	2011	-18	18	Yes
43	11303	24.05705	35.30905	2190	Mesa Soros	2011	-7	7	Yes
44	11304	24.045866	35.287807	2164	Troharis	2011	-6	6	No
45	11305	24.046086	35.287857	2156	Troharis	2011	-10	10	No
46	11308	24.04739	35.28799	2081	Troharis	2011	-12	12	No
47	Ad24 Small	24.04774	35.29018	2135		2011			No
48	LO1-4	24.05828	35.30781	2074	Mesa Soros	2011	-2	10	Yes
49	LO1-5	24.05822	35.30774	2070	Mesa Soros	2011	-2	8	Yes
50	11306	24.045756	35.287967	2175	Troharis	2011	-20	20	No
51	09039 / 11051	24.062411	35.293891	2074	Sternes	2009	-6	6	Yes
52	10-517 / 11064	24.05597	35.30829	2179	Mesa Soros	2010	-12	12	Yes (2010)
53	10-557 / 11054	24.05859	35.30652	2099	Mesa Soros	2010	-40	40	Yes (2010)
54	11307	24.046806	35.287277	2171	Troharis	2011	-38	50	Yes

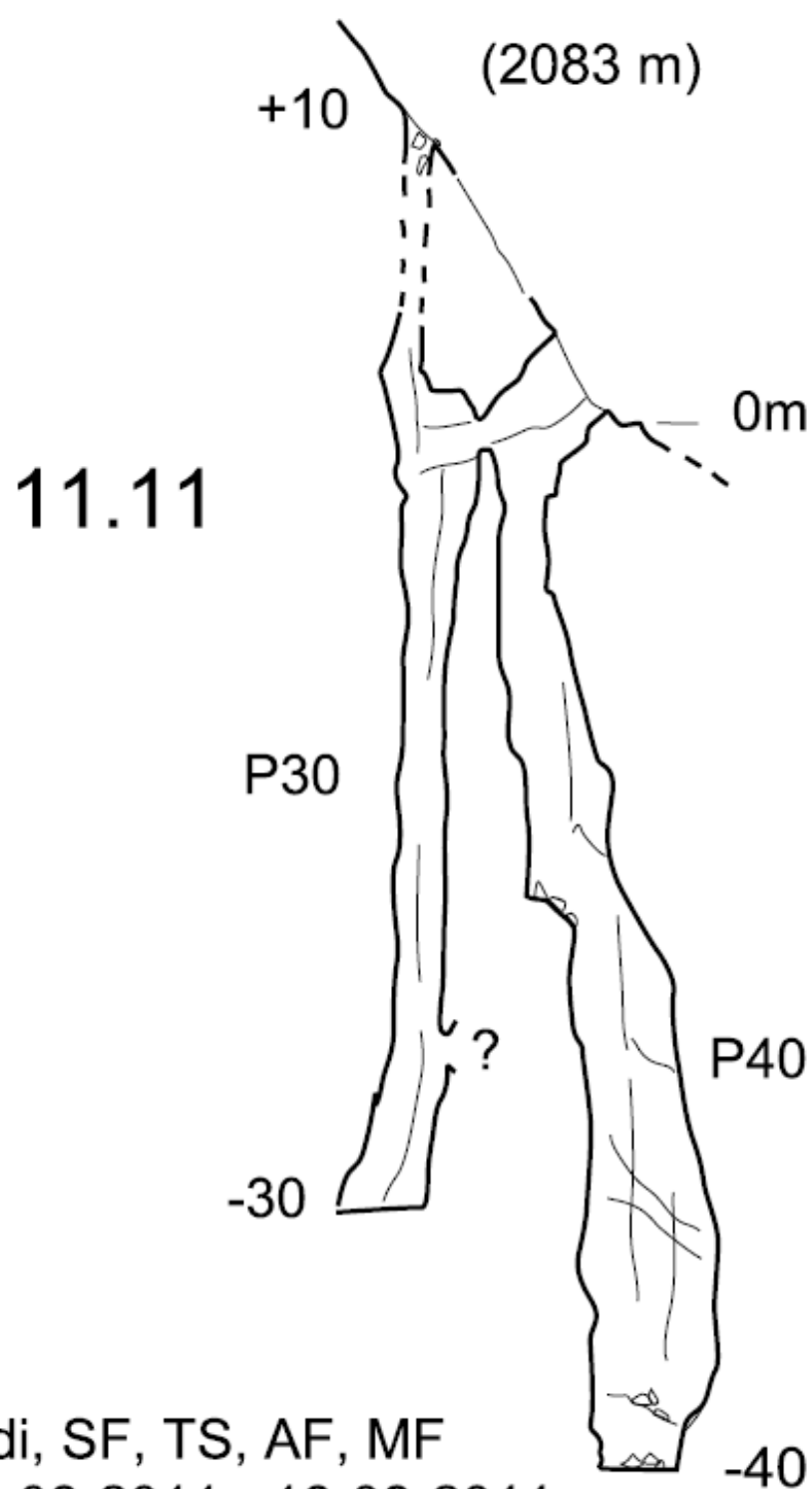
Code	Description
1104	Puit. MS- AS- SL
1105	Puit. Close to the end of the road, in the valley between Troharis, Paxnes and Sternes. MS- AS- SL
1106	Puit with 2 entrances. Close to 1105, 1104 and 1107 by the end of the road, in the valley between Troharis, Paxnes and Sternes. MS- AS- SL
1107	Puit. Ice cave. In the valley between Troharis, Paxnes and Sternes, close to 1105, 1104 but more high and to the west. MS- AS- SL
1108	Puit. AS- MS- RV-KH-AF on 13/08/2011
1109	Puit. AS- MS- RV-KH-AF- 13/08/2011
1110	Puit. AS- MS- RV-KH-AF. 13/08/2011
1111	Puit. On the field it is marked by mistake 1116 but in Kostas' GPS is the code 1111. Surveyed. AS- MS- RV-KH-AF. 13/08/2011
1112	Puit. 5m deep, 5m large? AS- MS- RV-KH-AF. 14/08/2011
1113	Puit. 9m deep with snow. AS- MS- RV-KH-AF. 14/08/2011
1114	Puit. Surveyed. AS- MS- RV-KH-AF. 14/08/2011
1115	Puit. AS- MS- RV-KH-AF. 14/08/2011
1117	Puit. Ransvan & Miha. AS- MS- RV-KH-AF. 14/08/2011
1118	Puit. Found by Samuel. AS- MS- RV-KH-AF. 14/08/2011
1119	Puit. AS- MS- RV-KH-AF. 14/08/2011
1120	Puit. AS- MS- RV-KH-AF. 14/08/2011
1121	Puit. AS- MS- RV-KH-AF. 14/08/2011
1122	Puit. Found by Tim. AS- MS- RV-KH-AF. 14/08/2011
1123	Puit. Found by Ranzvan. AS- MS- RV-KH-AF. 14/08/2011
1124	Puit (entrance very narrow/ not explored, stone goes about -10m (-15). RS-AF-AV. Sternes area
1125	Puit. Not explored. Small entrance diam 1m. RMS-RES
1126	Puit. Not explored. Short slope with rocks. There is some air current. RMS- RES
1127	Puit. Surveyed, Razvan M.
11001	Puit. Explored one puit of 17m and finish. Found on 8/8/2011 Survey 17.8.2011 Explored: MS- RB- AM, Surveyed: Anne, Samuel and Miha Very close to the 11002 and 11003. The three of them are all close to the camp 2009-2010-2011
11002	Puit. 8/8/2011, Surveyed 13/8/2011 Found: MS- RB- AM, Surveyed: KX- MF- MF- SF- TF- AF Very close to the 11002 and 11003. The three of them are all close to the camp 2009-2010-2011
11003	Puit. The best cave we found in 2011. Found 8/8/2011, Surveyed 14/8/2011 Found by: MS- RB- AM Survey: AS- MF- MF. Very close to the 11002 and 11003. The three of them are all close to the camp 2009-2010-2011
11050	Puit. MF- AF- MF- VT
11052	Puit, 0-6x1-2 m entrance. To be explored. Not descended not surveyed, P10 ? AF and KA- OC- RM- TF- SF
11053	Puit. GPS Kostas for coordinate. MF-KA, team: KA- OC- RM- TF- SF
11055	Puit. Kostas and team KA-SF-RS
11056	Puit Kostas and team KA-SF-RS
11057	Puit. Samuel went down to explore KA-SF-RS
11058	Puit. KA-SF-RS-...
11059	Puit. KA-SF-RS-...
11060	Puit. KA-SF-RS-...
11061	Puit
11062	Puit
11063	Puit
11200	Puit and horizontal chambers. Close to alpine refuge. SL- OC
11300	Puit. MF - KA- OC- RM- TF- SF
11301	Small horizontal cave. KA- OC- RM- TF- SF-MF
11302	Puit with snow at the bottom. MF- MF
11303	Puit. AF-MF-KA- OC- RM- TF- SF
11304	Puit. Not explored, entrance 2x4m; old mark PS5. Entrance with blocs found by Anne.
11305	Puit. Not explored, small entrance around P10 ? found by Anne. AF- MS
11308	Puit~ not explored~ alt 2098m ~diameter 2m, pit, near to the pass ~P12 or P15 0 AS and team :MS- MF-TF-SF-VT
Ad24	Small
LO1-4	Small horizontal cave. MF- AF- MF- VT-KA
LO1-5	Small horizontal cave. MF- AF- MF- VT-KA
11306	Puit. Not explored~ entrance 1x3m found by Anne- unexplored. AF- MS
09039 / 11051	Puit. MF- AF- MF- VT (code 11051)
10-517 / 11064	Puit = 10517 see last year MF - KA- OC- RM- TF- SF (code this year 11064)
10-557 / 11054	Not new see last year, cave10557. MF- AF- MF- VT (this year code 11054)
11307	Need to chek the coordinates because is one of the caves allready recorded on 13/08 and was found by Razvan Marc; the exploration is finished and surveyed small entrance, dangerour blocks Survey: AS-MF, team:AS- MS- MF-TF-SF-VT

Rigging List – Sternes cave (GSO21, -428m)

Sternes - GSO21		Λίστα Υλικών Αρματωματος (Βασισμένη στο αρμάτωμα της αποστολής του ΣΕΛΑΣ το 2011)				
Point	Rope (m)	Rigging	Biners	Simple biners	Spit	Sangle Dyneema
P.25 Είσοδος	40 m	1sp+1sp+1sp+2sp+1sp+2sp	8	0	8	1 0
P.23, P.15, R.7, R.8	50 m	2an+1an+2sp+(1sp+1an)+1dev(an)+1an	7	1	3	4 1
P.36, P.28	90 m	(1an+1sp)+1sp+2sp+1sp+1an+2sp+1dev(an)+2sp+1sp(need 1 more)	12	1	12	3 1
P.94	120 m	1an+1an+1dev(an)+2sp+(1sp+1an)+1dev(an)+1an+2sp+2sp+(1sp+1an)+2an+2sp	16	2	10	3 7
R.3	5 m	1an	0	0	0	0 0
Meander -240m	35 m	1sp+1an+2sp+(1sp+1an)+2sp	9	0	6	2 0
R.10, P.23, P.43, P.30	140 m	1an+2sp+1dev(sp)+1an+(1an+1sp)+2sp+2sp+1sp+2sp+2sp+(1sp+1an)+2sp+2sp+1dev(sp)+2sp+2sp+2sp	26	2	25	2 3
R.5,R.4, P.17, P.23	90 m	1sp+1an+1dev(sp)+1sp+1sp+2sp+1sp+(1sp+1an)+(1sp+1an)+1dev(an)+2sp	14	2	11	5 2
P.28, R.4	60 m	2sp+2sp+2sp+1dev(sp)+1sp(needs 1 more)+1sp+1sp(needs 1 more)+2sp	13	1	14	1 0
R.2	5 m	2sp	2	0	2	0 0
	635 m		107	9	91	21 14

ΥΠΟΜΝΗΜΑ: an=φυσική δεσία, sp=spit, dev=παρακαμψη,

an = amarage naturel, sp = spit, dev = deviation



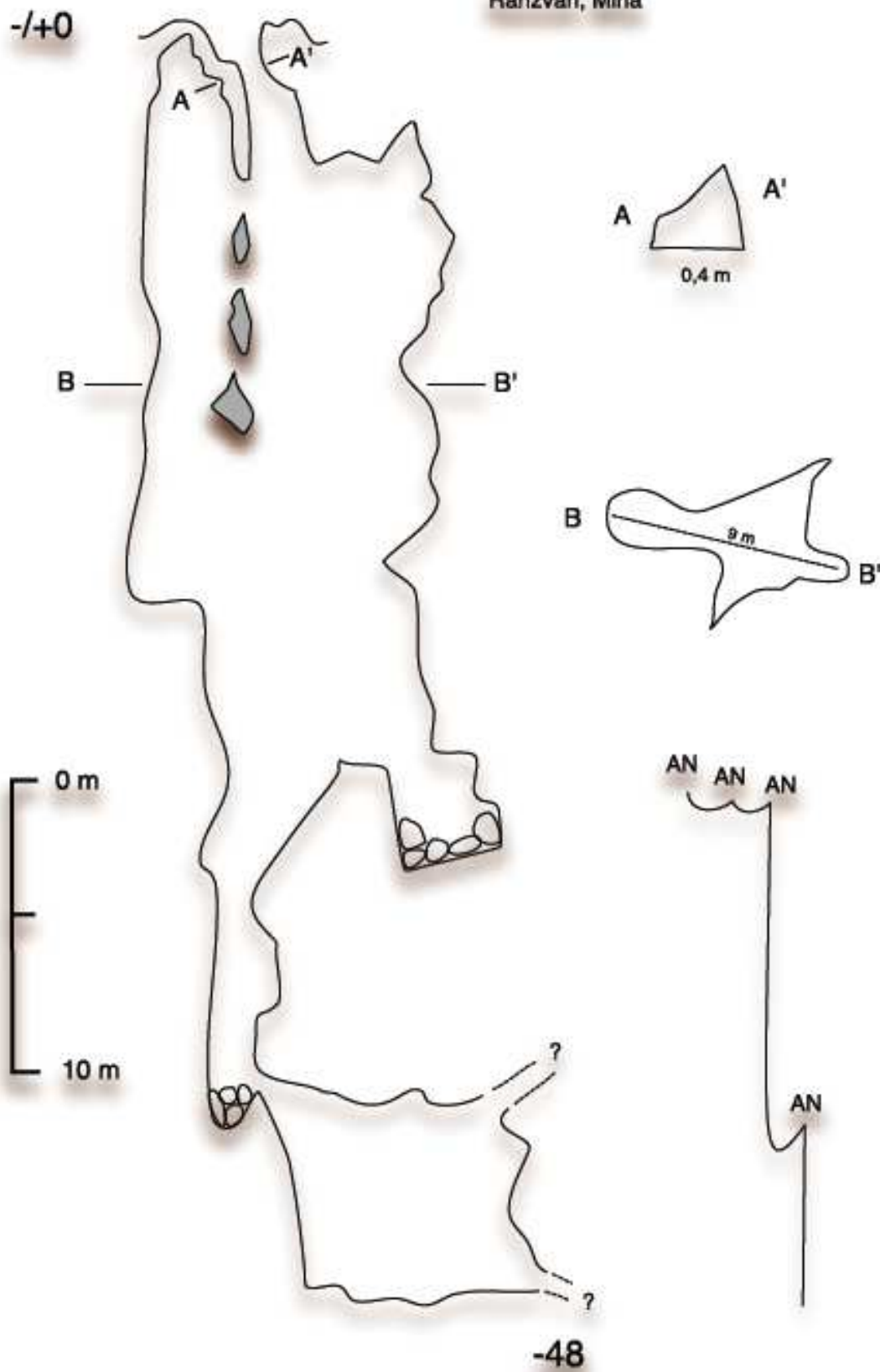
Aidi, SF, TS, AF, MF
14-08-2011 - 16-08-2011

0 20m

Drawing MF, AS

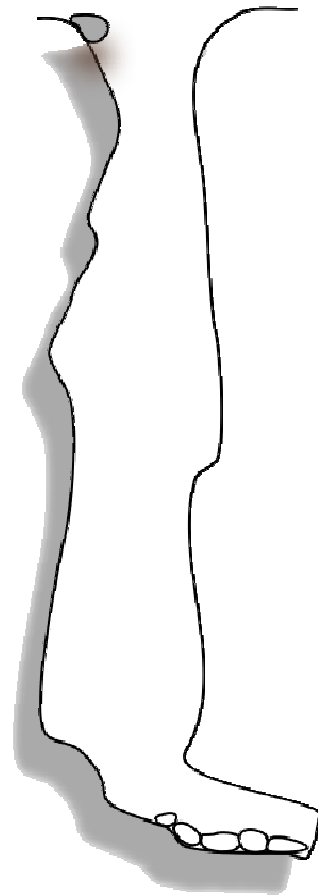
1117

14-8-2011
Ranzvan, Miha



1127 Sternes area

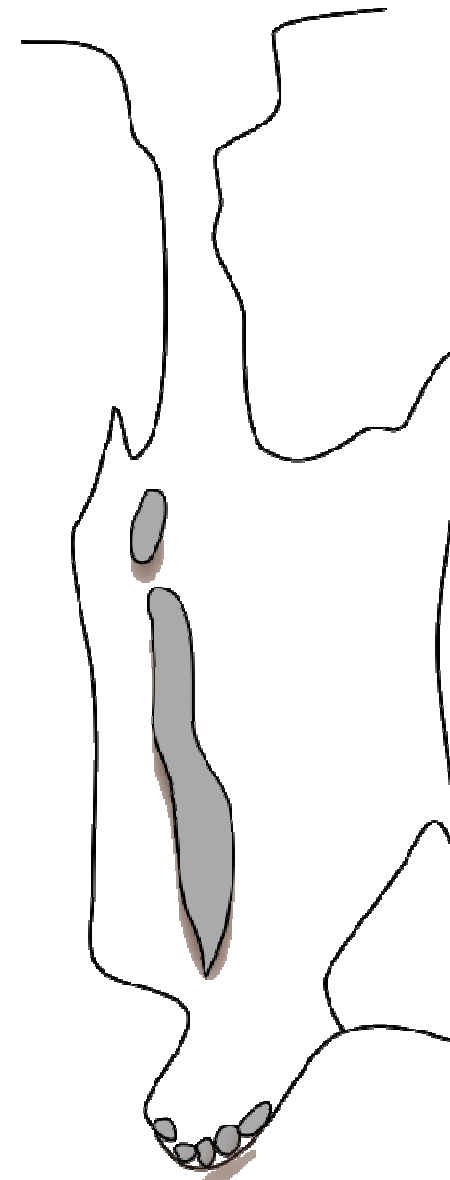
10m away from 11001



-17

11001 Sternes area

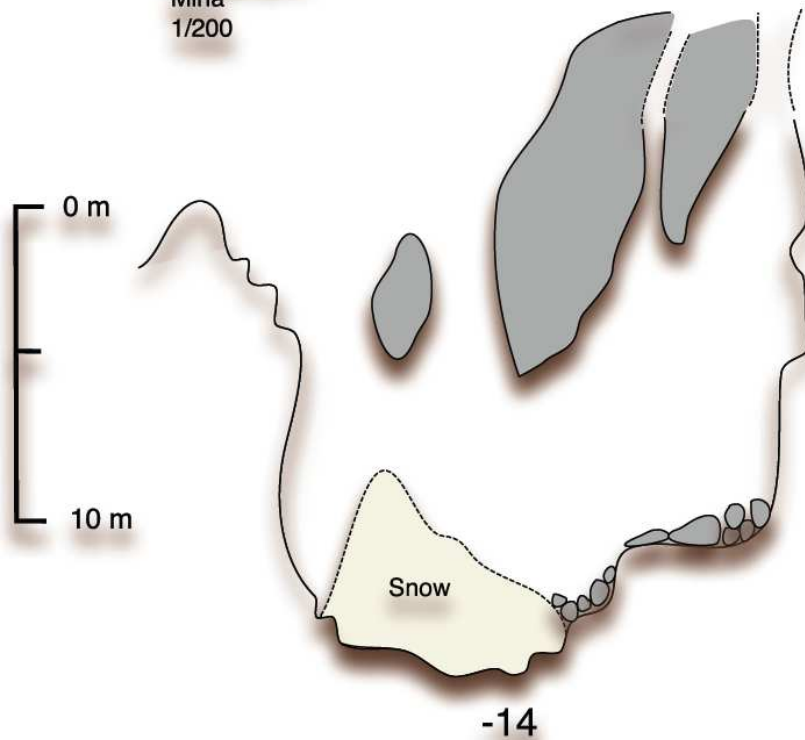
Anne, Miha, Samuel



-27

1114 Troharis area

August 2011
Miha
1/200



Βάρβαρο 11055

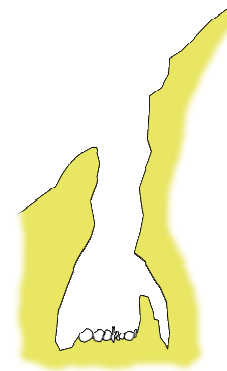
Λεωνίδας Ομήρ. Νόσος
Σταυρόν. Διμήν. Σημειώνων
Νομός Χανίων, Κρήτη

Υψ. 2076

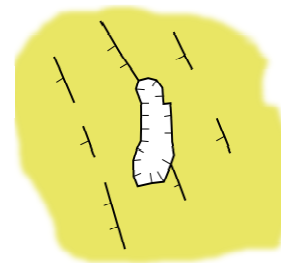
ΣΠΗΛΑΙΟΛΟΓΙΚΟΣ ΕΛΛΗΝΙΚΟΣ
ΑΘΛΗΤΙΚΟΣ ΣΥΛΛΟΓΟΣ

1^η Αυγούστου 2011

Μετρήσεις
2014-2015
Μετρήσεις
2011
Διάρκεια 11
11 - 20 Αυγούστου 2011



-5m



340

Βάρβαρο 11051

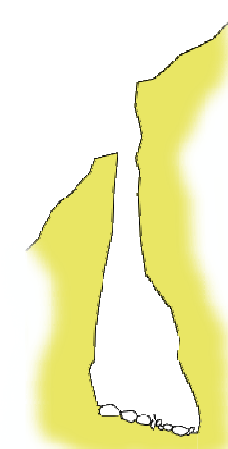
Λεωνίδας Ομήρ. Νόσος
Σταυρόν. Διμήν. Σημειώνων
Νομός Χανίων, Κρήτη

Υψ. 2017.1

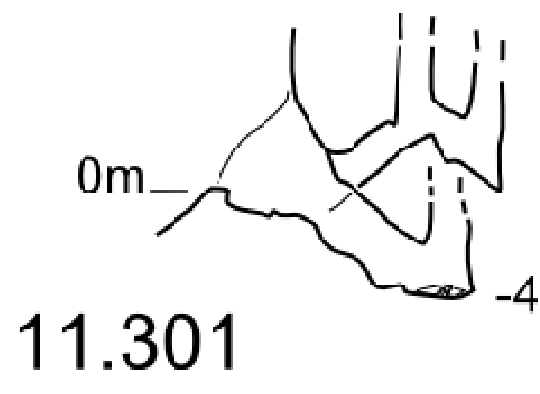
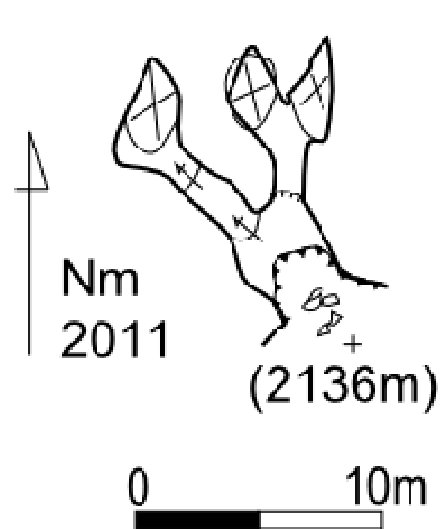
ΣΠΗΛΑΙΟΛΟΓΙΚΟΣ ΕΛΛΗΝΙΚΟΣ
ΑΘΛΗΤΙΚΟΣ ΣΥΛΛΟΓΟΣ

11 Αυγούστου 2011

Μετρήσεις
2014-2015
Μετρήσεις
2011
Διάρκεια 11
11 - 20 Αυγούστου 2011

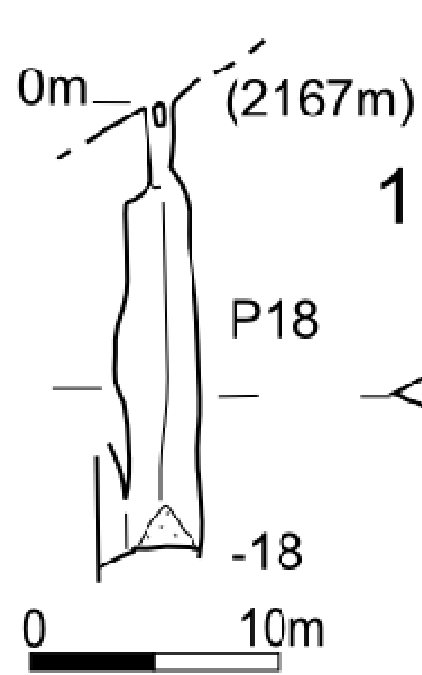


-6m



11.301

MF, TF, 11-08-2011

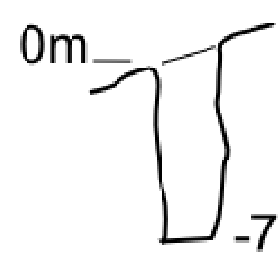


MF, MF, 11-08-2011

11.302

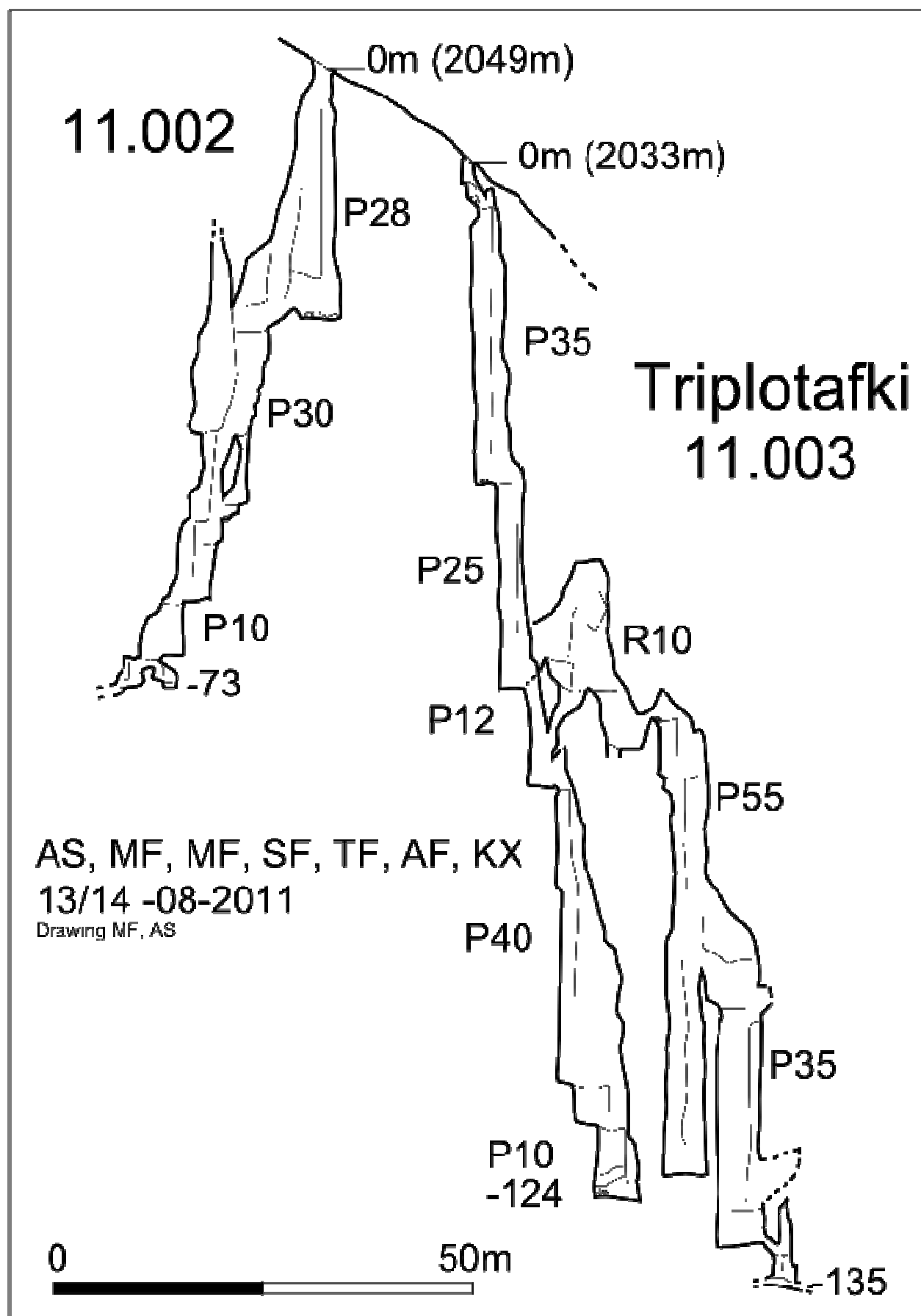
11.303

(2190m)

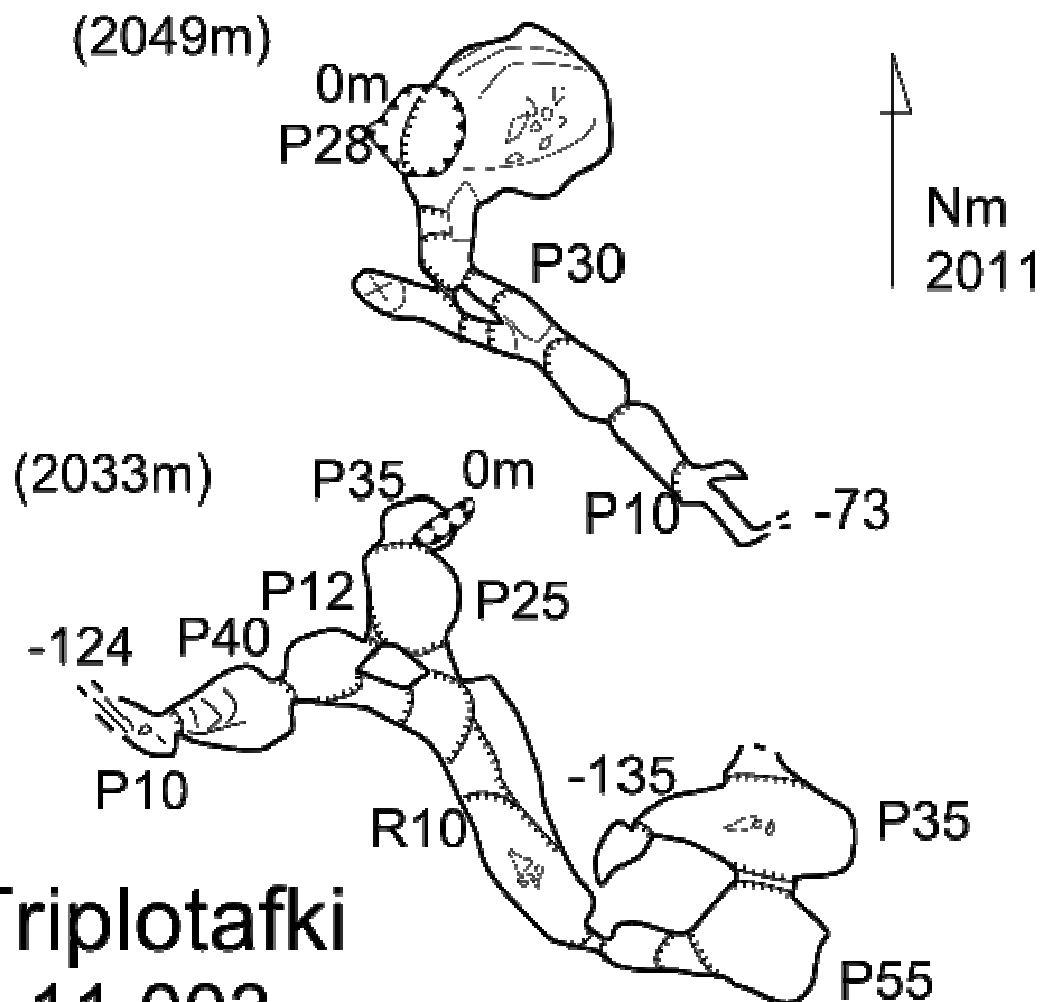


MF, A F, 11-08-2011

Drawing MF, AS



11.002



Triplotafki
11.003

AS, MF, MF, SF, TF, AF, KX

13/14 -08-2011

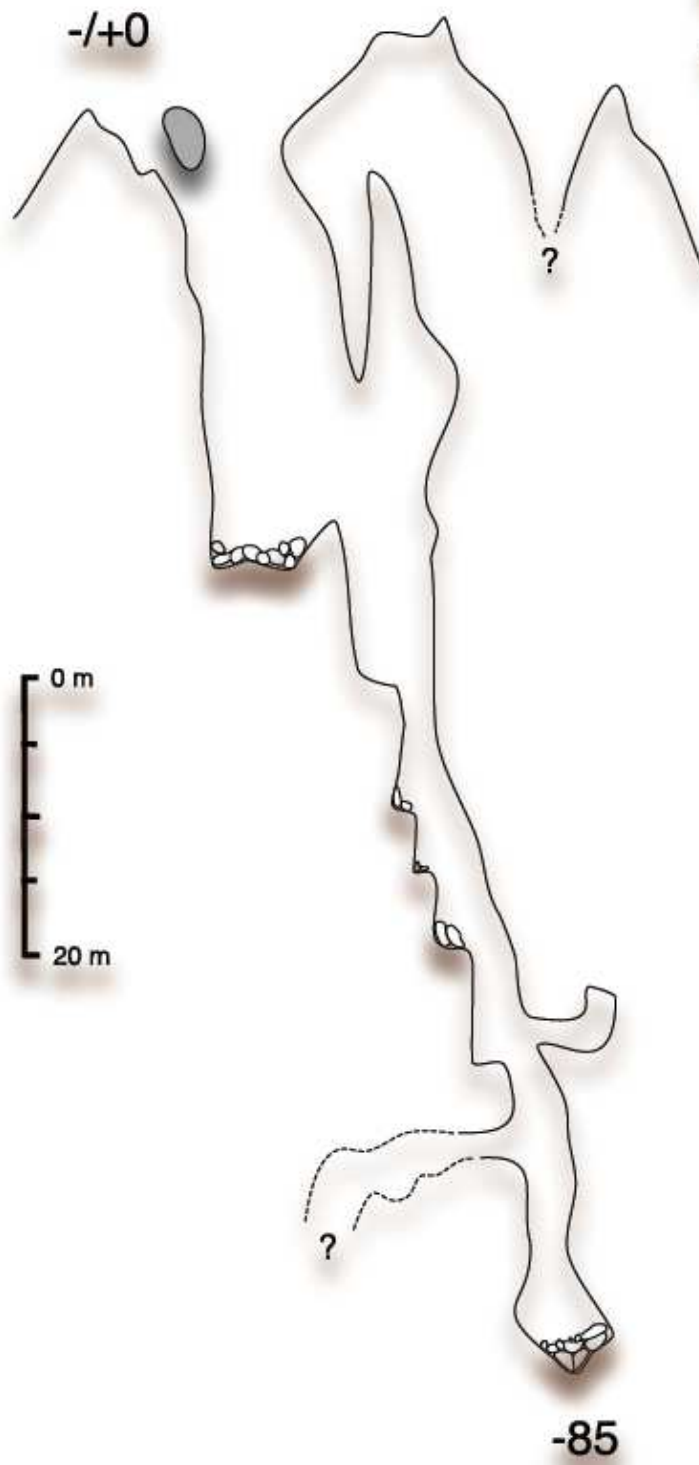
Drawing MF, AS

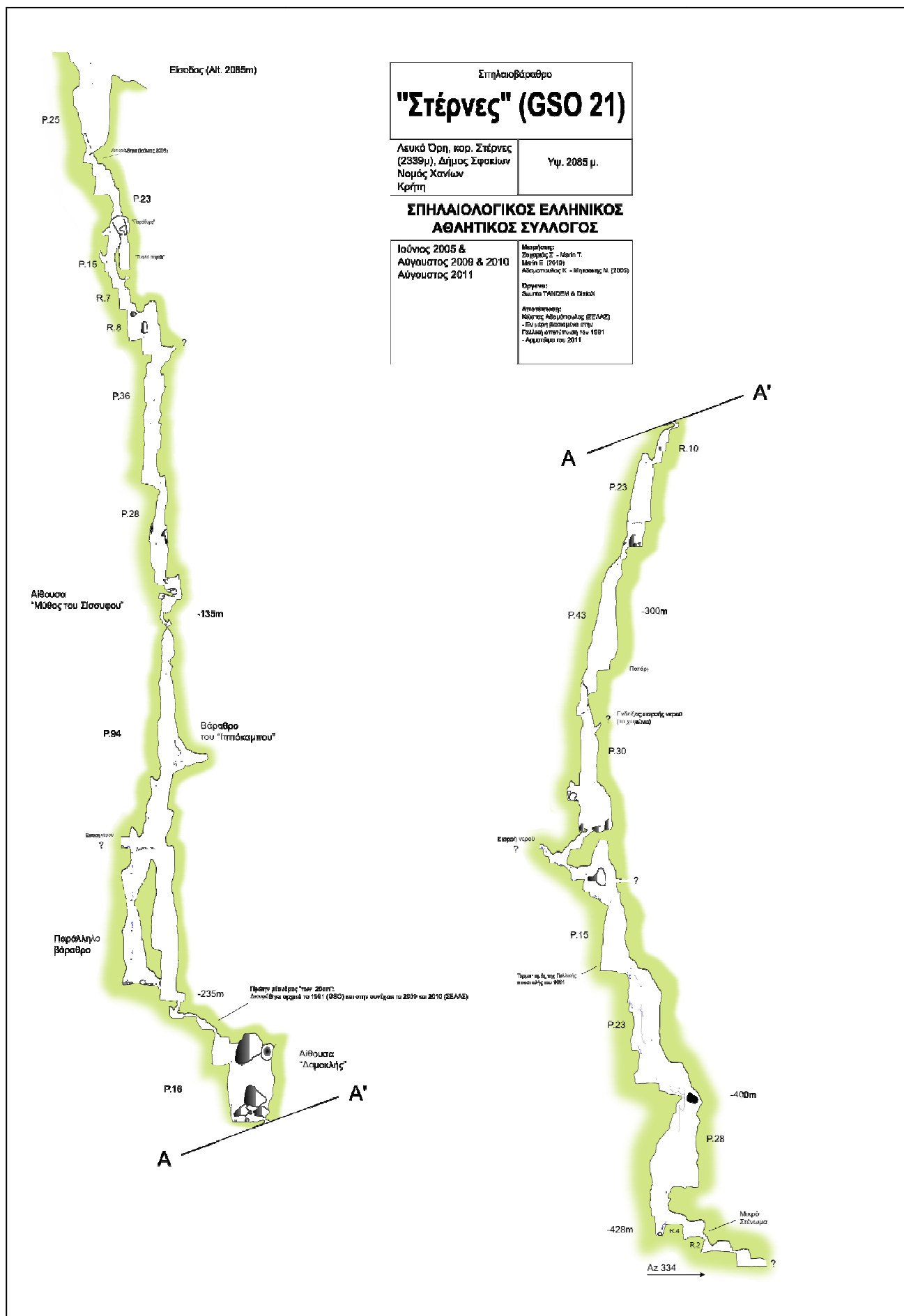


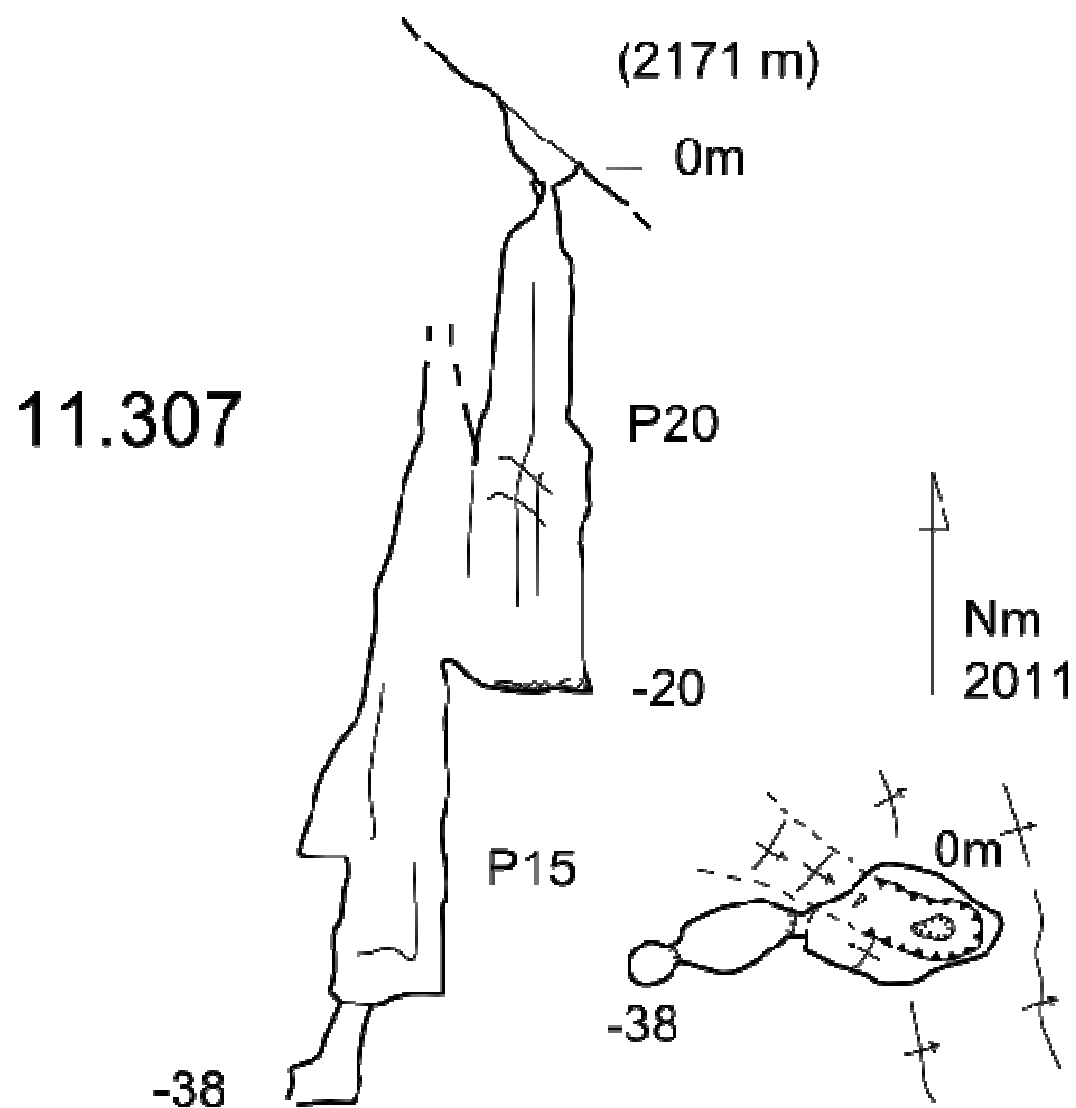
1106

13-8-2011
Adi, Miha

1/200



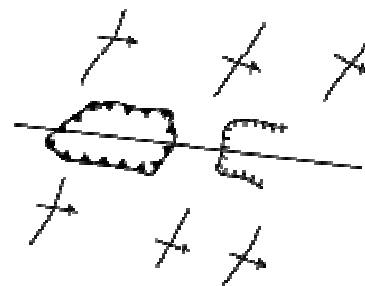
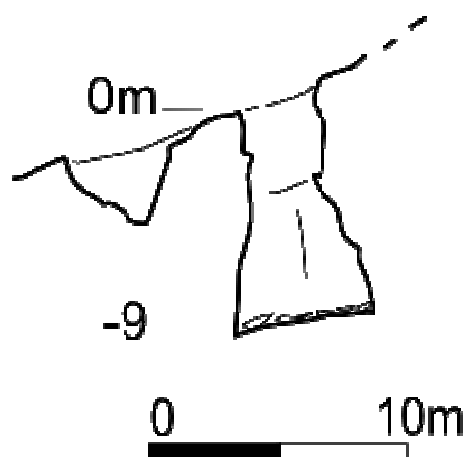




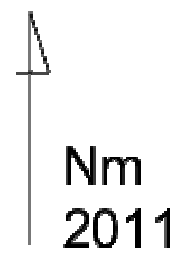
Aidi, SF, MF, TF
16-08-2011

0 Drawing MF, AS 20m

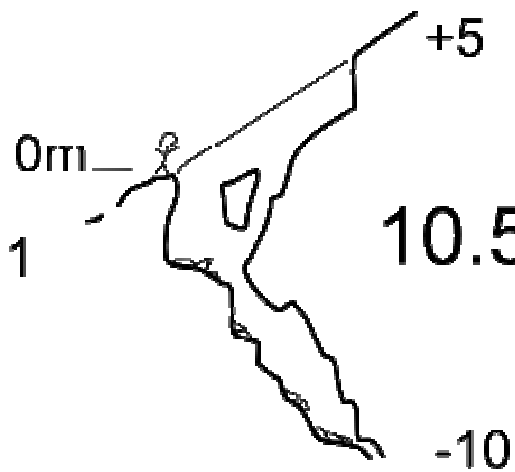
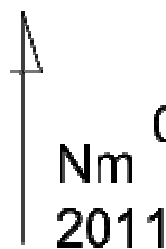
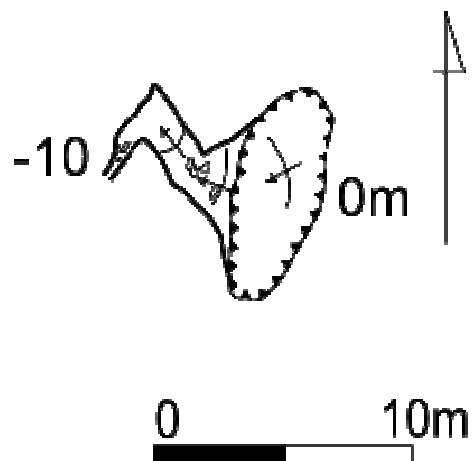
A horizontal scale bar with a black segment on the left and a white segment on the right. The number '0' is at the left end, and '20m' is at the right end. The text 'Drawing MF, AS' is written above the bar.



11.053

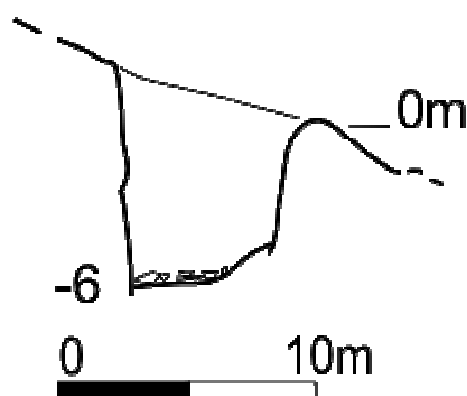


MF, 11-08-2011



10.507

MF, 11-08-2011



Entrance 5 x 8m

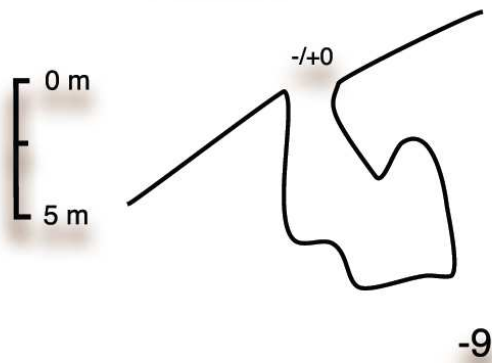
11.300

MF, 11-08-2011

Drawing MF, AS

11057

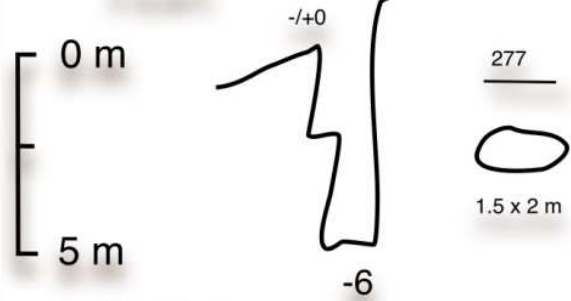
11.8.2011



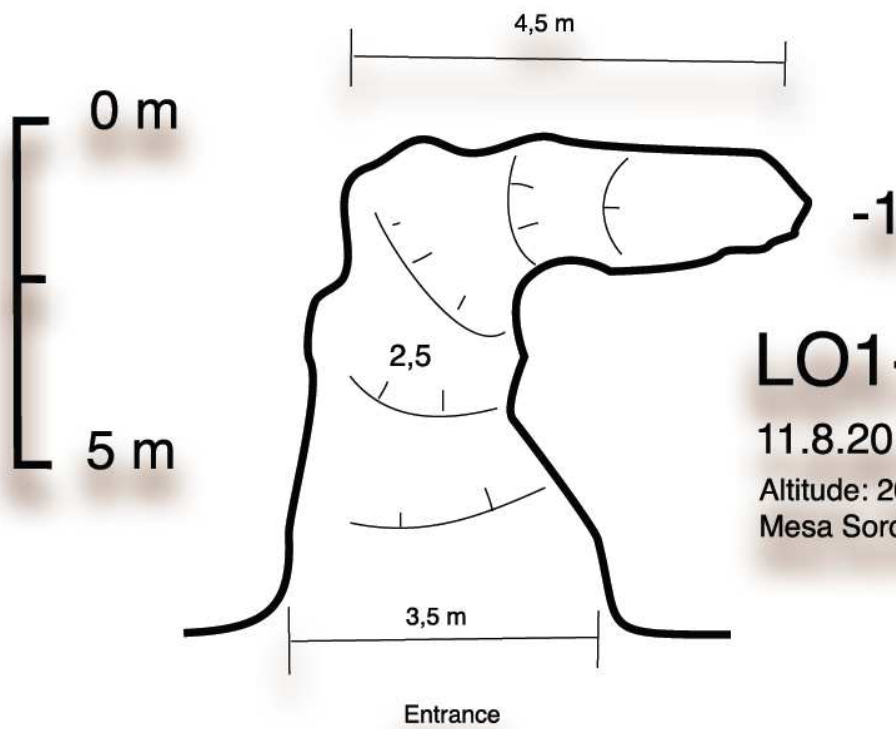
Team: Samuel Faverjon
Drawing: Kostas Adamopoulos
Altitude: 2106
Mesa Soros area, Sternes 2011

11061

11.8.2011



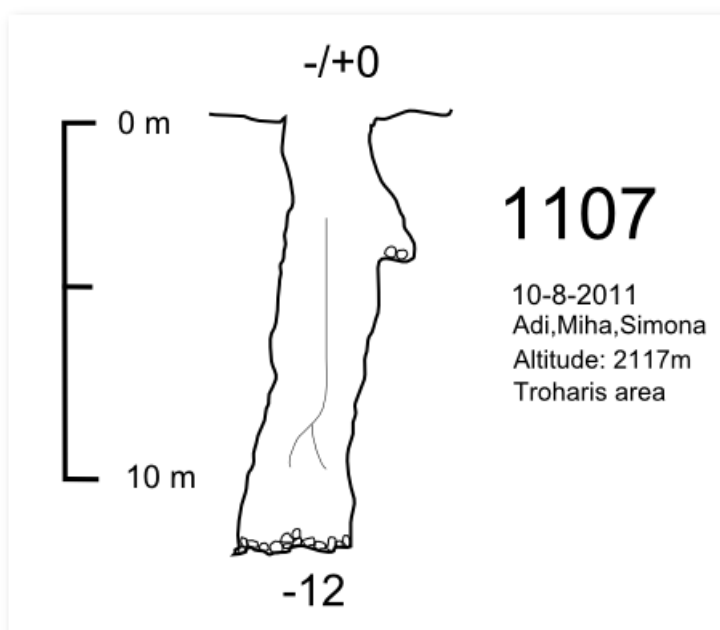
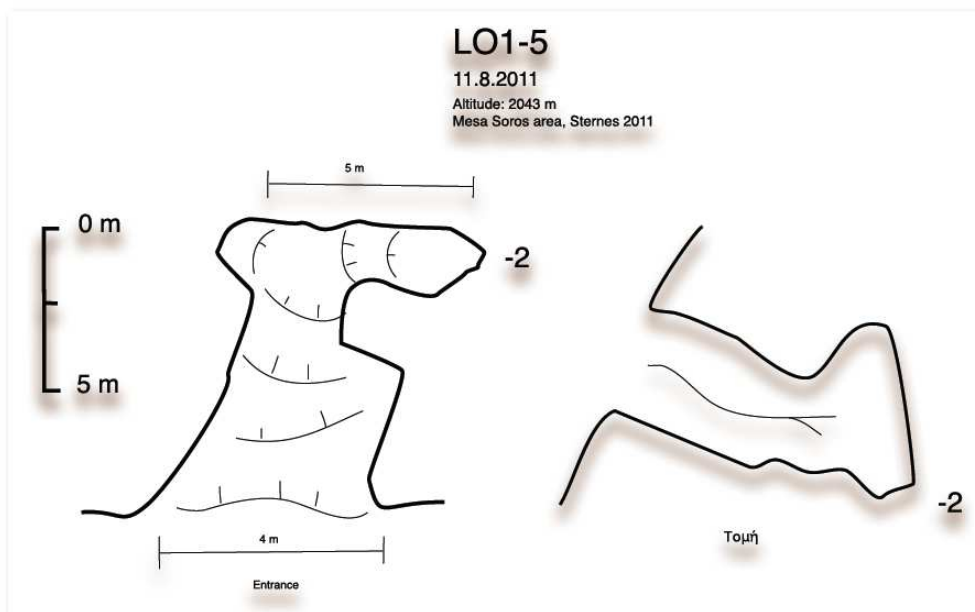
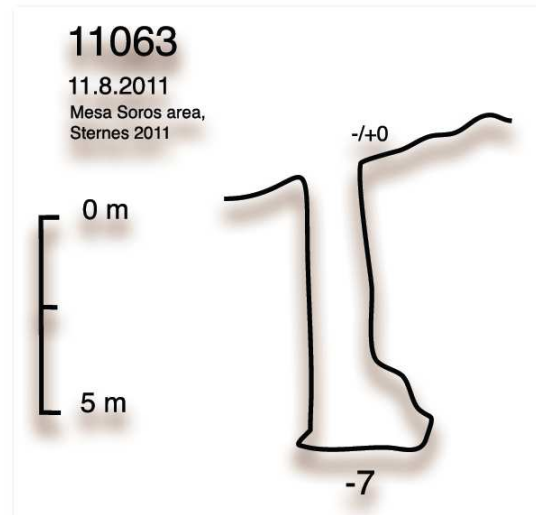
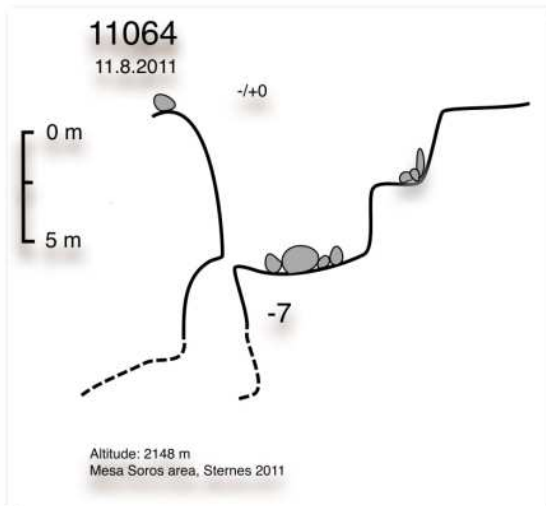
Altitude: 2135 m
Mesa Soros area, Sternes 2011



LO1-4

11.8.2011

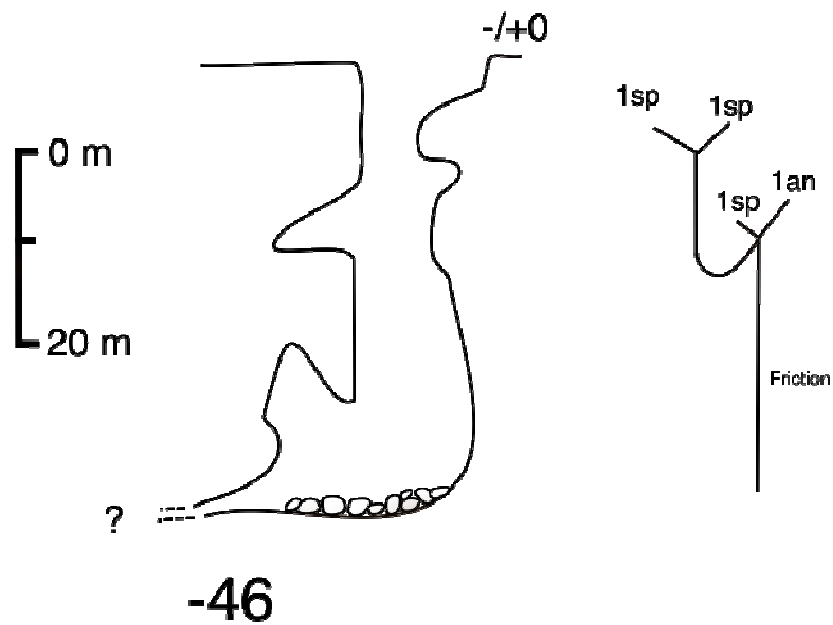
Altitude: 2049 m
Mesa Soros area, Sternes 2011



10.311

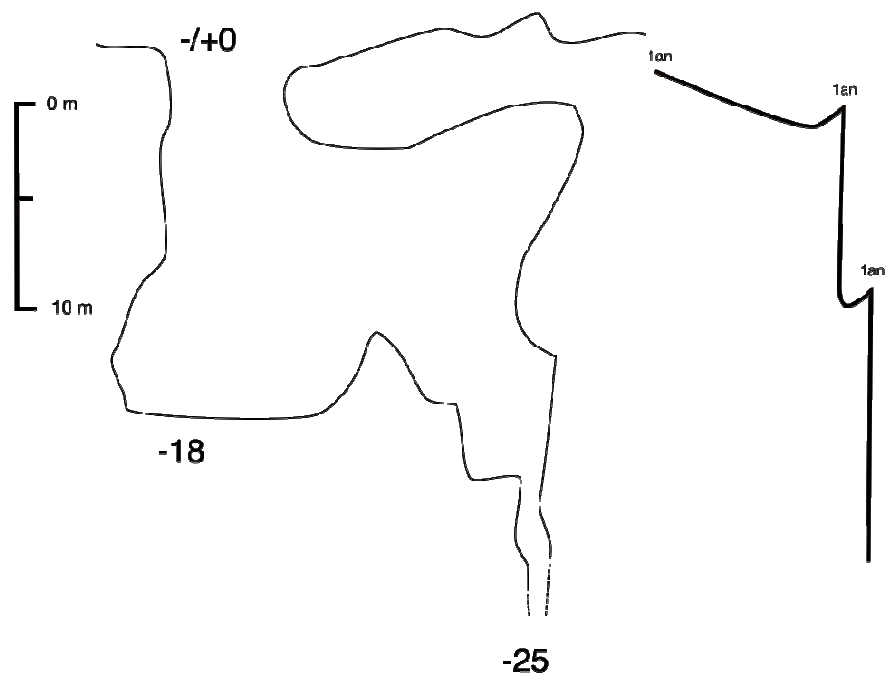
Mesa Soros area

7.8.2010
1/100



Team: Adina, Ranzvan, Adi, Miha, Polo, Gama, Kostas
Drawing: Adi, Miha

10.312



Team: Adina, Ranzvan, Adi, Miha, Polo, Gama, Kostas
Drawing: Adi, Miha
1/250

11200

Drawing by Oana and Simona

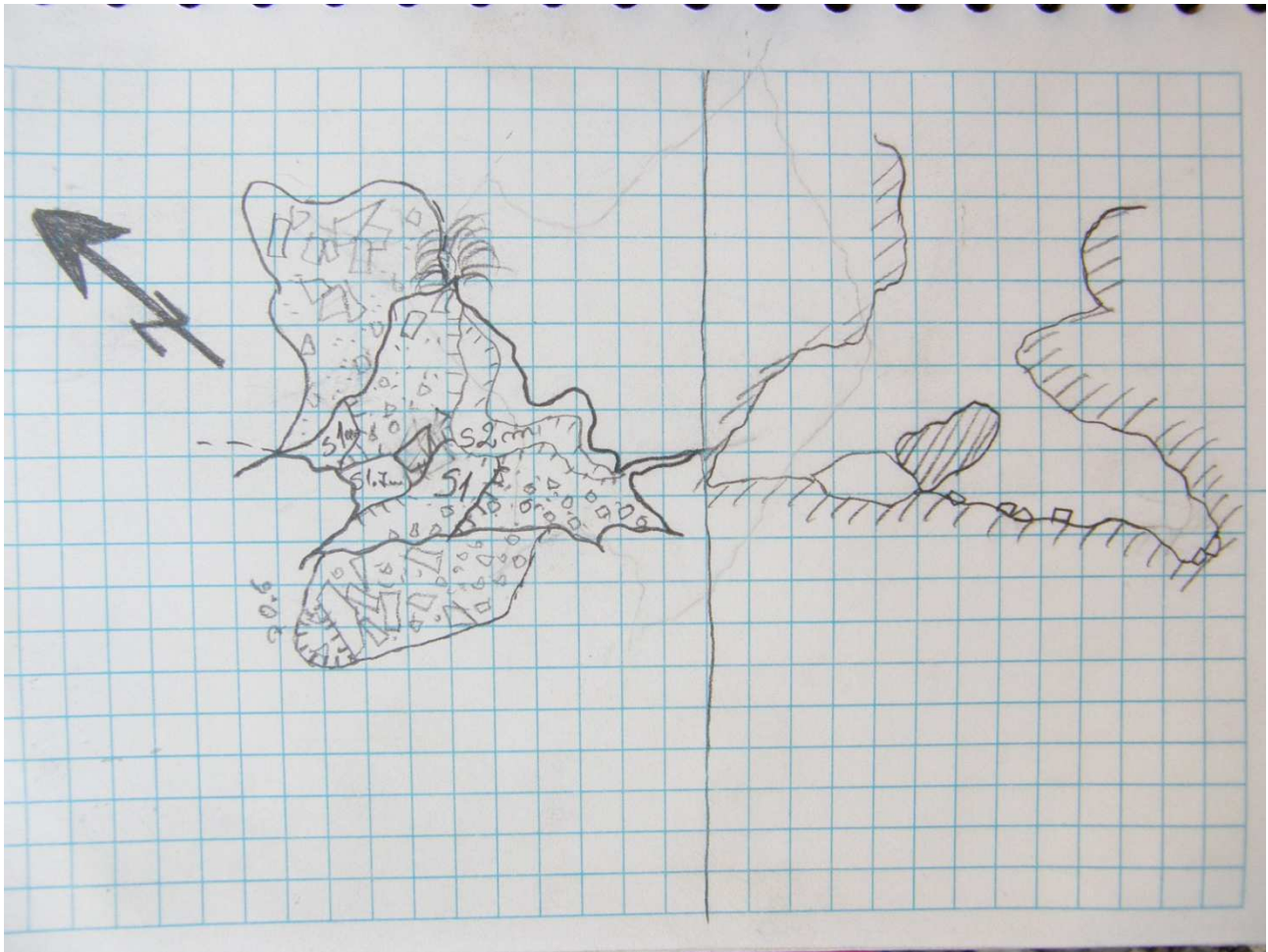




Photo by: Adi



Photo by: Alexandros Margiois



Photo: by Simona





Photo: by Oana



Photo: by Oana



Photo: by Simona



