CEGSA NEWS



Newsletter of the Cave Exploration Group (South Australia) Inc.

Issue 213 Volume 54 Number 1 **FEBRUARY 2009**



CAVE EXPLORATION GROUP (SOUTH AUSTRALIA) Inc.

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Cover Photograph: Two primitive Pleistocene Megafauna at Naracoorte with bad hair and breath problems.

Photo: Ian Lewis

CONTENTS

Volume 54 Number 1	Issue 213	FEBRU	ARY 2009
CONTENTS		AUTHOR	PAGE
Committee and Office Bearers			1
Contents			2
Ex-Presidents Spot		Graham Pilkington	3
Karstaway Konference Report		Graham Pilkington	3
TRIP REPORTS			
A Two State Nullarbor Trip 4 th – 22 nd Oct	ober 2004	Peter Ackroyd	4
Naracoorte, 22/23 November 2008		Mark Sefton	9
Pre conference Trip, Sale Victoria – 3 rd J	lanuary 2009	George MacLucas	10
Buchan et al, 10 th to 16 th January 2009		Graham Pilkington	11
Junee-Florentine Karst, Tasmania. Janu	uary 2009	Richard Harris	12
Past Trips (from November General Mee	eting)		14
Past Trips (from January General Meeting	ng)		14
TECHNICAL AND OTHER ARTICLE	S		
Website Request		Athol Jackson	14
Membership		Chris Gibbons	15
Membership Fees		Chris Gibbons	15
Approved CEGSA Trip Leaders		Committee	16
How to Kill an Organisation		Anon.	16
Time Flies		Ian Lewis	17
Annual General Meeting Report		Athol Jackson	17
Reminder		Committee	17
Caving Word Find			18
Index to Vol 53		Kevin Mott	19
Get Well Card for Fred Aslin		Greg.	29
Calendar of Events		Committee	30

QUARTERMASTERS NOTE.

High usage equipment will now be stored at the quartermaster's residence. Please make arrangements with the QM well in advance of required date for equipment. The QM can be contacted at the telephone numbers on the previous page.

NEWSLETTER MATERIAL

The deadline for copy or background material for Volume 54 Number 2 (Issue 214) must reach the Editor by Wednesday 13th MAY 2009. Material not meeting this deadline may be retained for possible use in a following issue. The preferred method is via E-MAIL to atholjax@adam.com.au as an attachment or on 3.5" IBM floppy disk, in Word or ASCII text format. Of course other forms of communication will still be gratefully accepted. Photographs are preferred to be in colour (jpg format). The views expressed in this publication are those of individual authors and not necessarily those of the Cave Exploration Group (South Australia) Inc., its Committee or the Editor.



Ex- PRESIDENTS SPOT

CEGSA does not really exist.

What does exist is the collective memory of everyone who has had contact with us, including our own members.

This makes it both easier and harder to alter the way that CEGSA operates. Easier in that CEGSA has no will of its' own; harder in that it's necessary to change the attitude of many people if a new direction is proposed. For an organisation, inertia is probably a good thing – it retards rapid changes that would destroy credibility.

But like individuals, this group is vulnerable to what others believe we are, not what we are. As they say, it takes decades to generate trust but only minutes to destroy it. As for any organisation, this makes us exceptionally vulnerable to "rogue" members. Even if the person involved is not a member! They only have to be perceived to be a member. Many times I can remember incidents that have involved cavers doing "the wrong thing" and CEGSA getting the blame – after all, everyone knows that CEGSA equals cavers; it therefore follows that anyone caving is a CEGSA member.

We must ensure that everyone we have contact with can tell the difference. Displaying your membership card helps, but talking with people is much better because you can discuss our ethics and our aims.

To back this up we need to educate new members by both example and by instruction. Teaching people how to "cave" is the easy part; ensuring an attitude to caves compatible to our ideals is much harder. And both aspects are a lifetime endeavour. Not only does equipment evolve but techniques change, our knowledge of consequences improves, and our focus shifts from ourselves to the caves.

Graham Pilkington.

The ASF's 27th Biennial Conference, 4-9th Jan 2009

CEGSA attendees: Stan Flavel, Graham Pilkington, June and George MacLucas

Held in Sale, Victoria, it was a very successful conference with nearly 80 attendees. The proceedings are expected to be available within a few months (on CD only). I will not repeat the content – abstracts are available from Records – but highlight below some items that affect CEGSA and its' members.

Notable happenings (at least in my opinion!) were:

- Stan Flavel was re-elected as the ASF President for the next two years.
- June MacLucas organized yet another picturesque art display and workshop
- June MacLucas was awarded an ASF Certificate of Merit.
- Our KIDSA was accepted by the ASF Council as the recommended club-and-field-based karst database template for use by all ASF members after modification to interface with the web-based ASF KID and provision for a full GIS interface so that it becomes a true karst database not just a karst feature database.
- The next Conference is proposed to be held near Chillagoe around Easter 2011.
- The Caving Club of Victoria announced its' demise.
- CEGSA is by far the largest ASF club. According to the ASF Treasurers' method of calculating voting membership (which amongst other things discards all Introductory memberships for which we have many more than anyone else), CEGSA has 27.5 "members", the next largest is VSA with 17.8, the typical size is 6 to 8.

TRIP REPORTS

A Two State Nullarbor Trip – 4th to 22nd October 2004

Party: Peter Ackroyd and Ray Gibbons.

The Departure

Ray and I left Adelaide in Ray's Holden Rodeo utility with 160 litres of fuel, the same amount of water and a complete change of tyres and wheels (the bush set) for our two weeks in the Nullarbor.

Arriving at Max Meth's house in Ceduna on the evening of 4 October, I gave Max (the then Nullarbor records keeper) the final release version of the Nullarbor Karst Index database that my wife, Jenny Smith, and I had laboured on for the past two years. It was a complete redesign and rebuild of the original, rather messy database to which Max had been painstakingly adding data for the past few years.

I gave Max a tutorial on the database and he was in business. We left him to it and drove for half a day to Koonalda Station, which we noticed had been given a new roof by the National Parks people.

The Trip Begins

From Koonalda we continued north to Parkin Cave (N-1010) to fit a reflective tag to it and to takes GPS coordinates. Nearby, on a graded track heading westerly, was an old bore casing labelled "KN1", which appeared to have been drilled around July 1961, according to faded marks on the bore capping.

The next day was spent on a fruitless search for N-28, a cave number allocated in 1960 that had poor location information and was not even described. Having given up, we drove west into the late afternoon sun along the graded track, the existence of which we had learned from Ceduna resident, Murray Collins. Murray had no name for the track so we named it for him — the MC Track.

Camping on a hard surfaced claypan alongside the track that evening, we spent a pleasant time in shirt sleeves in sultry conditions and, while watching the setting sun, having a couple of cooling drinks with our meal. The eerily still conditions — it is rare to have no wind at all on the Nullarbor — continued till after we retired to our tents. Around 11 pm I was awakened by a short burst of wind that managed to pop one of my tent pegs. Scrambling out of the tent to replace the peg, I was caught completely unawares by a very strong southerly wind that burst from nowhere.

Fighting to hold the tent and replace the popped peg, I was aghast to see every other peg let go, leaving me, stark naked, holding on to my tent with all my strength to stop it from heading into the bluebush and beyond. I found that I could do nothing else. Fortunately, Ray, roused from his own slumbers, came over and, once he'd stopped laughing, helped me to get the tent down and rolled up, with everything still in it, and bundle it all into the ute's cabin. I received one of CEGSA's leather



A wind-proofed tent on the Nullarbor. Photo: Peter Ackroyd, October 2004.

medal awards for that effort — a tent peg "to help obtain a good night's sleep".

The camp was a bit of a shambles next morning, but nothing was actually missing. So, after cleaning up the mess, I carried out the usual data recording and other 'office' work from yesterday's cave tagging, while Ray changed over to his bush tyres and generally made the vehicle 'Nullarbor ready'.

We continued west along the MC Track, passing an abandoned grader tyre, a few blowholes, which we explored, numbered and tagged, and a 20L drum labelled "Ampol Transmatic" hydraulic fluid, suggesting the track was graded around 1975.

The country here consists of many shallow, clay-bottomed depressions on a very flat plain. The area appears to have a thick (perhaps up to 2m) soil cover over the limestone concealing nearly all the karst features. The further west we drove, the thinner the soil cover became, resulting in the gradual emergence of the gently undulating Nullarbor Plain that we know.

In April 1973, Harry Wheeler, an early Nullarbor karst explorer and recorder from Kalgoorlie (later from Adelaide), had taken an extraordinary solo trip in a Holden station wagon. He drove north from Warbla Cave (N-1) up to the 'Trans' railway line in an apparent attempt to follow the path of ill-fated early explorers Farie and Woolley, who perished in 1878. Their story is fascinating and I can well imagine Wheeler being interested in searching for any remaining signs of their journey. Our immediate interest was that Wheeler had come across two blowholes in this trackless area. The MC Track had enabled us to reach the correct area and, due in no small part to the care with which Wheeler committed his findings to paper, we found one of these blowholes, which we tagged N-990. Nearby, we found two more blowholes. Both appeared to have opened recently, judging from the surrounding signs of fresh erosion. We tagged these N-3015 and N-3016.

Continuing west, we reached and crossed the border into Western Australia before camping. The next morning, as was our usual practice, I recorded the previous day's karst work while Ray took a lengthy (usually 8 or 9 km) walk searching the surrounding area for karst features. This particular area yielded only a few, despite the thinning soil cover. In addition there was extensive bluebush, increasing the risk of tyre punctures. While we were driving west during the afternoon, I spotted a couple of acacias and a few thorn bushes that seemed interesting. We walked over to them to find a small cave (N-3019), which we recorded and tagged. Upon our return to the utility we found the left rear tyre was flat — our first serious puncture. It was a bad split in



Ray Gibbons searching for caves from top of vehicle.

Photo: Peter Ackroyd, October 2004.

the side wall which needed a patch. Tubeless tires are notoriously difficult to get off the rim and so this one proved to be. By the time the tyre was patched (using a very large patch) it was evening, so camp was made on the spot.

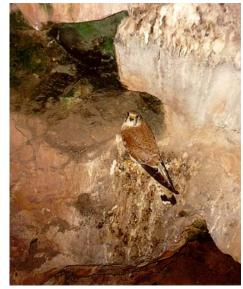
The next morning, Ray found several new karst features nearby, mostly blowholes about 3m deep. After tagging these we continued west only to have the utility overheat due to a buildup of speargrass seeds and saltbush in the radiator. So, we made leisurely camp and decided it was a 'three can' night. We sipped these under a warm night sky.

The following day was spent driving on, finding a few more features, including N-3033, Kestrel Chick Blowhole. As suggested by the name, we found a resident kestrel and its five chicks who were all huddled up together to form a single warm, fuzzy ball of down. Only their beaks and eyes allowed us to count them individually.

We looked at and photographed them from afar, then left them in peace as we drove further west, finally reaching an area searched from the air by Ken Boland in 2001. We commenced locating and tagging a few 'NXK' features.

By mid-afternoon on 10 October, we reached the Eucla-Forrest road at which we turned to head north in order to search for two Wheeler features, which he'd marked "position approximate". Before we quite reached that point we suffered our second major puncture. We made camp for the night.

We spent the next day tracking down one of the missing Wheeler features (N-959) to add to the nearby N-958, which



Female Nankeen Kestrel(Falco cenchroides) in Kestrel Chick Blowhole (N-3033).
Photo: Peter Ackroyd, 10 Oct 2004.

had been located by Paul Devine and me in 2001 (Ackroyd, 2002). I think that the remaining one (N-960) is not in the position indicated by Wheeler — possibly a mistake in his directions.

That night was quite hot. The flies, which had been bad for most of the trip so far, were particularly persistent until well after sunset. The following day they were even worse, crawling into every facial orifice and needing to be physically removed by scraping or gouging. Our eyes suffered, becoming quite sore and slightly infected.

We continued our westward trek, this time along the Link Track, to reach Lake Gizzard Cave (N-1761). I had intended pushing this cave since May 2000 when I was stopped by a nasty roof-sniff and inadequate lights (Ackroyd, 2005). This time was better — the sump-pool had dried out leaving a simple earth floored squeeze. The cave had a strong draught and was very enticing but exploration was stopped at the ends of two, 10–15m long passages (see map). Tartarus spiders inhabited the cave. After surveying all accessible passages and returning to the outside world, the map was drawn up whilst Ray went on a karst walk and located a couple of additional features.

We continued driving west to stay the night at Old Homestead Cave hut. Here we spent a rest day carrying out karst documentation duties on the computer, washing ourselves and our clothes, and baking bread. The next morning, we did some tagging of features that we had recorded on October 2001 but could not tag because we had used all our tags! We then continued slowly north-west, locating features and tagging as we went, and camping each night wherever we found ourselves.



Tartarus spider in Lake Gizzard Cave (N-1761).
Photo: Peter Ackroyd, April 2005



Typical campsite, showing our windbreak. Photo: Peter Ackroyd, 12 Oct 2004



River cobbles exposed in wall of doline N-3063, (scale=150mm).

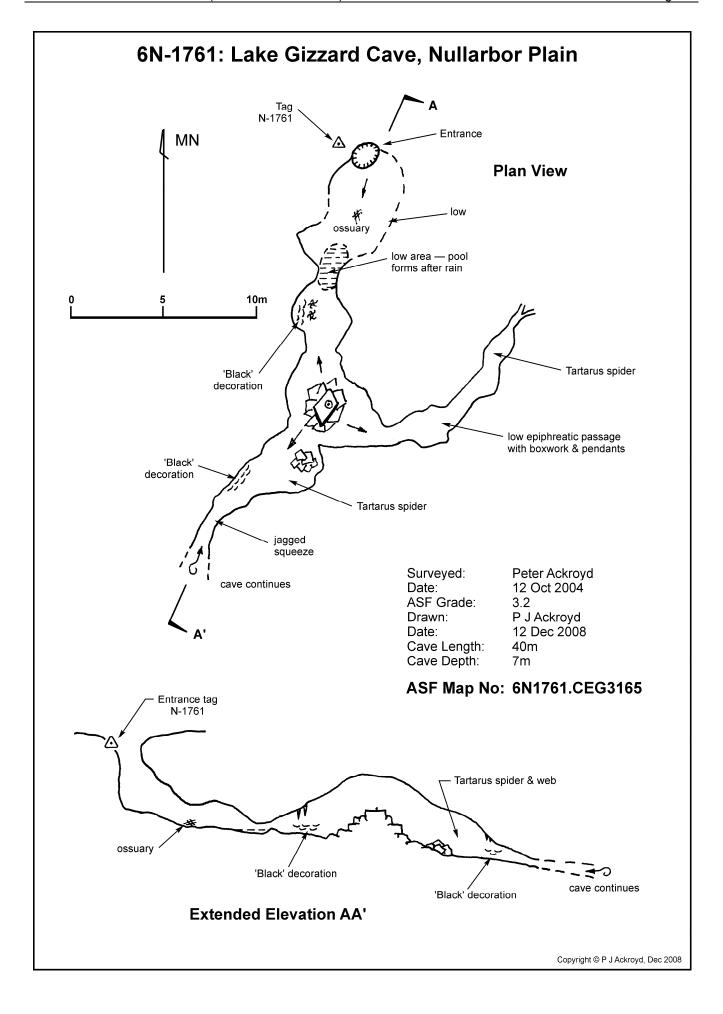
Photo: Peter Ackroyd, 16 Oct 2004

We also properly recorded and tagged some features from another group's excursion of May 2000. Most features in this area were blowholes or drafting holes in dolines. Some blowholes held kestrels and chicks and so could not be fully explored.

Not far from this area, Ray, on his morning karst walk, discovered a significant, though small, cave (N-3060). It was 25 m long and had developed in existing paleokarst with two separate epiphreatic passages leading through "black" flowstone and cave breccia. The cave contained pendants of cave breccia and also had many skulls and bones of marsupials, geckoes, wetas and redback spiders. Reinforcing the conclusion that N-3060 is epiphreatic, was a nearby small doline, N-3063, which had well exposed river cobbles in its wall (see photo).

An example of how much erosion is currently occurring out on the Nullarbor was at a freshly opened blowhole, N-3075, which was at the bottom of a 1m deep soil collapse with an acacia root growing straight across the opening, indicating the blowhole had been covered until very recently.

Memorably, on one morning while Ray was on his karst walk searching for new features and I was adding data to the Nullarbor karst index, I noted a



wedge-tailed eagle hunting directly overhead. In high winds there was barely a wing beat, the eagle was in total control as it carried out its search pattern of overlapping circles. It was magnificent to watch. Ray returned from his walk to inform me that he'd had his own wildlife experience. He had seen a dugite (snake, *Pseudonaja affinis*) and two bustards — large birds that were once very common on the Nullarbor.

The Trip Winds Down

Late on 19 October, we headed back to Old Homestead Cave hut, arriving there at 5 pm. The following day Ray changed back to road tyres and repacked the vehicle while I



Peter Ackroyd exploring N-3095. Photo: Ray Gibbons, 19 Oct 2004]

collated the data and the photo tag pictures and entered everything into the Nullarbor Karst Index database ready to be used by others. Ray and I had added 87 new features and had updated the records of 12 old features (including tagging those without tags) to make a total of 99 features documented (see appendix for details).

We headed south the next day calling in to Arachnid Cave (N-140), which appears to be attracting a considerable amount of local interest judging from the rather well-established track into it. Continuing south, we soon reached Eucla and finally Ceduna, where I was able to hand over to Max Meth an electronic file of the complete data set of our trip.

The next morning, 22 October, I spent more time with Max showing him the finer points of the Nullarbor Karst Index database before Ray and I headed back home, arriving in Adelaide that evening.

Appendix: Listing of features examined and karst numbers allocated

New 'N' numbers allocated, tagged and documented: 5N-3014–3016, 6N-3017–3100 (Total = 87).

Existing 'N' numbers visited, data collected and feature tagged (when no tag found): 5N-4, 6N-83, 6N-140, 6N-959, 5N-990, 5N-1010, 6N-1761 (survey), 6N-1879, 6N-1881, 6N-1889, 6N-2041, 6N-2045 (Total = 12).

Temporary numbers visited and 'N' numbers allocated (where applicable): NX-590, NXK-26, NXK-27, NXK-34, NXK-598, NXK-687, NXK-688, NXK-690 (=rabbit warren), NXK-691 (=rabbit warren), NXK-693, NXK-694 (=animal den, not karst), NXK-719, QW-294, QW-317A (Total = 14).

All available cave information was entered into the CEGSA Nullarbor Karst Index (now KIDSA) in October 2004 and so is accessible to all cavers.

References

Ackroyd, Peter, (2002) On a Wing and a Prayer. CEGSA News 185 (Vol 47 No 1) p.10.

Ackroyd, Peter, (2005) Nullarbor Flights of Fancy — May 2000. CEGSA News 200 (Vol 53 No 2) p.90.

Peter Ackroyd, 18 January 2009

Naracoorte: 22nd/23rd November 2008

Participants: Mark Sefton, Alistair Sefton, Will English, Neville Skinner, Stuart Reedman, Peter Ashenden and Alex Ashenden

On the Saturday morning, the seven of us set off bright but less than early, to visit Smoke/Tortoise Cave. It was probably something like 15 years or more since I had last made my one and only visit to this cave, and the others had not seen it at all. Thanks to Graham Pilkington's systematic documentation of all of the entrances in this region and the wonders of GPS, we were able to locate the entrances without difficulty. This was just as well, as I had marked what I thought was the approximate location of the cave on my 1:50,000 map of the area many years ago but was out by nearly two kilometres! We also managed to find the entrance to Great Expectations (U116) which is now in the middle of a vineyard. The entrance is covered over with logs which look like they haven't been moved since first being placed there. Unfortunately, the entrance to U117 is now lost – buried somewhere beneath the vineyard, although I got a GPS reading at a spot where the soil appeared to be washing down beneath an exposed bit of limestone.

Without any idea of which of the two entrances gave the easier access to Smoke/Tortoise, we laddered the nearest to the track – the Tortoise entrance, only to find that it was virtually blocked by silt at the bottom, with only a tiny hole leading on. So we next tried the Smoke entrance which turned out to be an easy 6m ladder climb into some roomy walking passage. From here, we headed SW to a pleasant sandy-floored chamber and gradually progressed clockwise around the cave. We looked at two boulder choked ends to two passages at the western extremity of the cave. These were low, the boulders were very heavily consolidated with calcite and there was no breeze to encourage what would have to be a major excavation effort to make further progress. So we continued on, through some low crawls, to the chamber below the Tortoise entrance. This entrance chamber was pretty squalid – the floor was littered with bits of broken bottles (the last remnants of the rubbish that had once filled the sinkhole above), and the aroma of a freshly deceased lizard didn't exactly add to the ambience of the place. We spent 20 minutes or so removing silt from around the bottom of the entrance pipe, and the cave is now accessible from this point. We then headed back to the Smoke Cave entrance and out for lunch.

After lunch, Alistair and Will decided to listen to music in the car while the rest of us returned to the Smoke Cave entrance. This time, we headed SE to a point where the survey showed two ways on an obvious continuation of the passage we had just come through, and a route to the south which we took, but probably would never have found without the map. A squeeze through the largest part of a flattener was right at the limit for me and Neville, and was followed by more flat out crawling before we reached a small chamber where we could sit up at last. We then followed the wall around, crawling through boulders until we at last arrived in a spacious chamber, full of sand cones and some decoration. After having a good look round here, we decided to continue north to where the map showed a route leading via another squeeze – the 'Letterbox' – back round to where we first left the main passage near the entrance. Unfortunately, the 'Letterbox' was too tight for half the party, so we were forced to head back the way we came, finally emerging from the entrance three hours after we had started and with a thirst appropriate for the evening's festivities. Despite five hours in the cave, we still didn't get to see all of it. The rest is waiting for another day.

The next day, Neville, Stuart, Peter and Alex went to Beekeepers Cave where they went to the very end and pushed all the nooks and crannies there. I took Alistair and Will on a trip through Wet Cave preceded by an overly large lunch at the kiosk accompanied by Damian Grindley who was over from the US on a work visit and had bumped into us at Wirreanda.

There are many fine caves in this area which most of us haven't seen for quite a few years now – if at all. Hopefully, we will be able to redress this situation over the next year or two.

Mark Sefton.

PRE CONFERENCE TRIP AT SALE, VICTORIA - 3rd JANUARY 2009.

When June and I arrived at Sale a day early for the ASF Conference and with information that there was no caving at Sale, a visit to the Information Centre was necessary and truly enlightening. As an old sea dog for 30 odd years I was surprised and pleased to hear that steam ships came up the canals to the Port of Sale.

How was this so? Sale is 90 km from Lakes Entrance which leads to Lake Victoria and Lake Wellington and the La Trobe River. This I had to see. The early settlers in 1850s built various canals to Sale as well as a large swing bridge to allow traffic over the La Trobe River

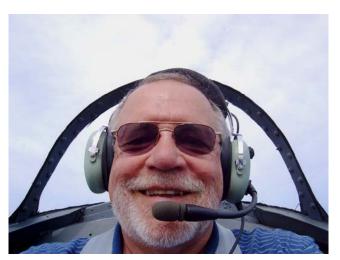
At the local airport, I arranged a flight over this area; I had to see the canals, the lakes, the wetlands and the swing bridge from the air.

Using my confined space training (not a visual work place for me,) I arranged a flight in a two seater Chinese Training plane "Nan Chong", with the pilot in front and myself in the back. I was told, "Enjoy the flight, but do not touch the pedals or throttle".

This was a very enjoyable flight, see photos.

George MacLucas

Caver, but old Mariner of 32 years in the Australian Merchant Navy.



I am airborne.



Port of Sale and canal.







Lakes and canals.

Buchan et al, 10-16th Jan 2009

A post-conference trip attended by myself.

Caves visited: Federal, Shades of Death, Oolite, New Guinea 1, Fissure, Sub-Aqua and nearby caves.

I stayed at the caver's lodge in Buchan – Homeleigh. The trips I attended all set out from there led

by VSA members.



Homeliegh



Royal Cave Entrance



Federal Cave Entrance

Federal Cave is in the Buchan Caves Reserve and is an ex-showcave that is being renovated by the Friends of Buchan Caves, which includes members of VSA. It's a parallel (abandoned?) system to the show cave set of Fairy-Royal-Duke but is stopped by a massive calcite infill. Renovations include using solar-powered LED lighting. All the tourist caves had similar entrances and exits — a door in the cliff face. The exits were simple doors but the entrances were jazzed up so that people had something to do or sit on while waiting to enter as well as giving a better impression and increasing anticipation.

Shades of Death is a large cave in both size and length. It also has abundant large calcite speleothems. A past attempt was made to make it into a show cave but work stopped after only a hundred metres or so. It's privately owned.

Oolite is in the Potholes area. Just one of many caves in a doline-strewn landscape. A fascinating solution cave in a complex of interconnected vertical rifts and dipping connectors that descends about 30m.

New Guinea One (named after its' code 3NG-1) is a river cave. The entrance is at the bottom of a very large doline that intersects the linear passage which away from the doline is typically 2m wide and 4m high. In places collapse debris provides interesting navigation but most of the time you just follow the stream as it meanders through the rock. If you are interested in cave sediments, this along with many other caves in the Buchan region are a wealth of opportunity.

We went for a walk over the "Pyramids", a hill of limestone that has all the Murrindal river running through it in low-flow. However, the river in high flow goes around the hill. The cave is not all accessible. It starts where the river hits the limestone and sinks into boulder-choked entrances and exits via Sub-Aqua Cave (the name of one of the two caving groups to later form VSA). The top of the hill has a large 20m deep doline in it – a bit like a volcanic crater where the peak is a ring - but formed by collapse into a previous higher level version of the Sub-Aqua cave system. Downstream from the Sub-Aqua outflow, the creek periodically abuts limestone cliffs but you can still travel along the bank by ducking into caves that breach the headlands. One of these caves was mined for lead. Where the river enters the limestone, there's a high-level valley the cuts across the limestone band. On the side of this is Fissure Cave – a dry dusty fissure.

Junee-Florentine Karst, Tasmania. January 2009

Particiants: James Arundale (VSA), Dean Chamberlain (CDAA), John Dalla-Zuanna (CDAA), Richard (Harry) Harris (CEGSA), Grant Pearce (CDAA), Liz Rogers (CDAA).



L-R Richard Harris, Grant Pearce, Jim Arundale, Liz Rogers, Dean Chamberlain, John Dalla-Zuanna.

Background

After a wonderful family tour around the Apple Isle, including a great couple of days visiting the main show caves at Mole Creek (King Solomon and Marakoopa); I (Harry) headed out to Maydena with John Dalla-Zuanna (JDZ). There we met up with the rest of the group who were already settling in at the idyllic cabins at the "Giants Table".

Our main objective was Junee Cave (JF8), which lies in State forest just outside the Mt Field National Park; only a very short drive from our accommodation. The cave is famous for its stunning dry chamber ("For Your Eyes Only"), which lies between the 2 sumps. In cave diving circles, it is

famous for a few other things also: firstly its temperamental conditions (being prone to high flow, flooding, razor sharp suit eating limestone and frigid water), and secondly its potential for many kilometres of new passage. When dye tracing in 1973 connected Growling Swallett to Junee, the concept of the Junee Master Cave...a 9+km connection was born.

But to temper our enthusiasm was the knowledge that South Australian divers Tim Payne and David Doolette had on 2 occasions (2002 and 2004) visited the terminus of sump 2 and failed to find a way through a breakdown area there (Speleo Speil Issue 349 July-August 2005).

Anyway we decided to try and see for ourselves and regardless of the outcome, we wanted to experience the glory of For Your Eyes Only (FYEO).

January 4th 2009: Dive Day 1

First impressions for those in the group that had been to the cave before was that the water level was quite high. From the carpark to the public platform overlooking the cave entrance is about a 10 minute walk through the picturesque rainforest. The first job is to carry all the dive gear up the 100m streamway inside the cave to the beginning of the first sump. The 7 degree water necessitates the use of drysuits for any such activity but one soon warms up whilst battling against the flow.

On arriving at the setup area by sump 1, we were somewhat surprised to see a diver's gear neatly laid out on the "beach". The lack of a car in the carpark saved us undue worry but for a fleeting moment we wondered what might have happened to the owner! We quickly surmised it belonged to Dave Apperley, a Sydney based cave diver who said he may be in the area. It seems he had started diving but retreated for a few days once the water levels started to rise. During the course of our stay Dave came and went and in fact saved us a great deal of effort by repairing a lot of line in the majority of the second sump before we dived there.

Although several of the group planned to use rebreathers in the cave, all except Dean performed the initial first sump dive on open circuit. The thick line laid in the first sump is still in a good state of repair except for a few belays, which had broken or come loose (these were repaired). In order to protect the line from the intermittent high flow, it has been laid to guard against rubbing on the sharp projections. This means it doesn't always pass through the best route for a diver to follow. Several line traps exist as the line passes flatteners especially in the first 50m of the sump. Visibility varied between zero and 4m for all our dives (obviously worse on exiting the cave, or following someone else in). In low viz conditions these line traps can cause some delays during exit especially. Dives through sump 1 consistently took from 15 to 25mins depending on whether video was being taken. Flow was moderate initially but improved as the water levels fell during the trip. Temp 6.8.

JDZ and Harry dived through the first sump together and then walked to the end of FYEO simply to admire the passage and get a feel for the work involved to bring more gear through. Based on the

size of the passage they decided using backmount CCRs would present a challenge in some of the flatteners but they should be passable (as Dean had proven). The rest of the group also came through without incident and everyone enjoyed a relaxing chat in the beautiful chamber.

January 5th 2009: Dive Day 2

Water levels fallen further today and weather perfect. Everyone dives through sump 1 and the 3 divers using backmounted CCR find the sump squeezy but manageable. The group transported the 5 stage cylinders required by JDZ and the author to dive sump 2, up to the end of FYEO. Photos and video of FYEO were recorded and we all exited again via sump 1. A small drop in water levels was noted to make a large difference in flow in the streamway of FYEO. Dave Apperley dived sump 2 and spent considerable time repairing the line down through the deep section at 63m. After working on the line he was short of time and unfortunately didn't get to the end. However this effort certainly paved the way for JDZ and I to dive the second sump the next day.

Dave reported the flow through the deeper restrictions was very high and quite difficult to pass.

January 6th 2009: Dive Day 3

Weather holding up, river continues to drop. More video and stills in all areas today. JDZ and Harry hauled their rebreathers to the end of FYEO and the group kindly brought the rest of their kit. Sump 1 was becoming pretty familiar and comfortable. Regular sightings of depigmented brown trout were made, as well as white syncarids and? shrimps.

JDZ and Harry set off for their second sump dive using the rebreathers. They used a trimix diluent to limit narcosis and decrease the work of breathing at depth. Each carried 2 large bailout cylinders and a further cylinder of decompression gas was staged at 20m.

The dive started with a 5-minute swim over silt dunes at only 5-10m. The line disappeared into the silt intermittently. Multiple line patches were seen and really the entire line needs replacing at some point with thicker rope. The cave then descended steeply and the restriction known as the "Teeth" was clearly visible at 40m. This presented only a minor obstacle and was easily passed. The entire tunnel was a single conduit with no side passages seen in the 4-5m visibility. At 50m the tunnel was flat centrally and on the right. On the left side it was scooped out and this was the obvious place to swim. However Harry found the flow to be very strong here whilst JDZ had a much easier time of it sticking to the middle. Through 62m the maximum depth was passed and the cave then ascended to 56m. Dave's line ended here and Harry tied on some 6mm rope, which he ran to the breakdown area, which only lay another 20-30m further on. They had arrived at their destination. It took 28mins battling the flow to get to this point, much longer than they had hoped but certainly sooner than if they had to repair all that line themselves. This gave only a few minutes to have a good look at the breakdown area, which was blocking further progress into the cave.

Harry: "My firm impression is that the cave continues beyond the breakdown. There was no sign of another route around the collapse. The breakdown is made of very large boulders with good size chinks between...clear water is tantalisingly glimpsed beyond the rockpile. Some apertures perhaps 30cm across are the largest gaps...certainly too small for a diver in any configuration to pass. Whilst it might be possible to move some rocks and force a route, this would be very time consuming and not without risk so far from the air chamber, and nearly 1km from the entrance. So for the time being, the Junee master cave will keep its secret! Total dive time in sump 2 was 104 very chilly minutes!"

January 7th 2009: Rest Day

Took a day to recover from the bumps and scrapes of carrying gear up those streamways! A quick tour of the district to have a look at some of the magnificent local scenery. Visited Growling Swallett (JF36); one of the major feeder siphons for Junee. Next, over to Lawrence Rivulet (again following in the footsteps of Dave Apperley who had just dived here and was doing his line repair work for us again!). Lawrence looked very inviting (apart from the leeches and mossies which were abundant).

January 8th 2009: Dive Day 4

Snow on Mt Field and hail on us! The Junee River was rising and it was time to get our gear out while we could. Approx. 5 hrs total in the cave to bring all the cylinders and other gear out and back to the cars. Red wine and a good feed the order of the day for cold cave divers!

Thus ended our exploration of the Junee Resurgence. Tassie cave diving has made a big impression on all of us and there are already plans being made to return!

Took a day to recover from the bumps and scrapes of carrying gear up those streamways! A quick tour of the district to have a look at some of the magnificent local scenery. Visited Growling Swallett

(JF36); one of the major feeder siphons for Junee. Next, over to Lawrence Rivulet (again following in the footsteps of Dave Apperley who had just dived here and was doing his line repair work for us again!). Lawrence looked very inviting (apart from the leeches and mossies which were abundant).

Richard Harris.

Past Trips from General Meetings

November 2008

- 1. Mark Sefton described a weekend trip to Naracoorte attended by five members. They visited Smoke/Tortoise Cave, Beekeepers and Wet Cave.
- 2. Ray Gibbons described a three week trip to the Nullarbor. They relocated some missing features and found a few new ones near Eucla. They then moved to another area where they looked along an ancient paleochannel where they found five new caves which look like they could go further. One was a 13 m deep blowhole with a very strong breeze, well decorated the whole way down which led into horizontal passage.
- 3. Graham Pilkington also went to the Nullarbor where he was joined by Ann-Marie Meredith of WASG. Two hundred and forty eight features were visited, locations of these features were noted and photos taken. All of the features were on Mundrabilla station. Included in these were 10 that were previously 'lost' and 16 new ones. During the last few days, the temperature reached 47 degrees in the shade. A day later, it poured with rain the first decent downpour in 18 months.

January 2009

- 1. Marie Choi went to Tasmania where she saw Simon Kendrick. She had heard, but was not able to confirm, that a connection has recently been made between Midnight Hole and Exit Cave.
- 2. Grant Gartrell and Mark Sefton went to Naracoorte to participate in the 10th anniversary of the Wonambi Fossil Centre. While they were there they had a look at U216 and did some digging there. A light breeze was coming through the rock pile on the left hand side near the bottom.
- 3. Graham Pilkington described some of the caves he visited during the ASF conference. These included Federal Cave, Shades of Death, Fisher Cave, Oolite Cave and New Guinea 1.

TECHNICAL and OTHER ARTICLES

WEBSITE REQUEST

I intend to do some updating to the website during this year so I am appealing to members to let me know if they have any suggestions they would like to make about the website.

I would also like to update the gallery of photos so am appealing to members for photos they would like to see on the website. Dig out those wonderful photos you have taken and let the rest of the world see them on our website.

Athol Jackson.

MEMBERSHIP

Changes to Members Mailing List:-

6701 Ian Lewis 12 McLachlan Avenue GLENELG NORTH SA 5045

(E) kanawinka1@yahoo.com.au

or (E) ian.lewis@immi.gov.au

7401 Kevin Mott (E) jkmott@internode.on.net
9210 Ken Smith (E) k.smith@bigpond.com

9806 Paul Hosie (E) paulhosie@trimixdivers.com

MEMBERSHIP FEES

CEGSA MEMBERSHIP FEES became due on January 1st **AND ARE NOW <u>OVERDUE</u>** To ensure continuity of membership and privileges (particularly insurance) please pay by 31st March, otherwise re-application for membership and the Joining Fee will be imposed in addition to the current fees.

CEGSA MEMBERSHIP FEES FOR 2009 YEAR

Full Membership	52.00
Full Country Membership	46.00
Associate Membership	44.00
Long Term Associate	52.00
3 Month Introductory	5.00
Joining Fee (N/A to 3mth Intro)	12.00
Discount for e-mail CEGSA News	15.00
Discount for Country Membership	6.00

ASF LEVY FEE FOR 2009 YEAR

Single	68.00
Family	121.50
3 Month Introductory	20.00
Student	61.00
Journal Subscription	25.00

2009 YEAR FEES

	CEGSA	+ASF	TOTAL
Full Membership	52.00	68.00	120.00
Full Country Membership	46.00	68.00	114.00
Associate Membership	44.00	68.00	112.00
3 Month Introductory	5.00	20.00	25.00

Variation for Family Membership

1st Full Member + 2nd Full Member

Less \$16.00 for only 1 CEGSA NEWS \$88.00 \$121.50 \$209.50

1st Full Member + 2nd Associate Member

Less \$16.00 for only 1 CEGSA NEWS \$80.00 \$121.50 \$201.50

1st Associate Member + 2nd Assoc Member

Less \$16.00 for only 1 CEGSA NEWS \$72.00 \$121.50 \$193.50

Discount for Country Membership and e-mail CEGSA NEWS applies for Family Memberships.

Please make sure your payment of fees includes CEGSA and ASF, if applicable.

Chris Gibbons.

Treasurer/Membership Officer.

Approved CEGSA Trip Leaders

Name	Caving Leader level
Marie Choi	Horizontal, Laddering and Vertical
Stan Flavel	Horizontal and Laddering
Grant Gartrell	Nil
Chris Gibbons	Nil
Amanda Grindley	Horizontal
Damian Grindley	Horizontal, Laddering and Vertical
Paul Harper	Horizontal, Laddering and Vertical
Richard Harris	Horizontal
Lance Hoey	Horizontal and Laddering
Peter Horne	Horizontal and Laddering
Paul Hosie	Horizontal, Laddering and Vertical
George MacLucas	Horizontal, Laddering and Vertical
June MacLucas	Horizontal
Steve Milner	Horizontal, Laddering and Vertical
Tim Payne	Horizontal, Laddering and Vertical
Graham Pilkington	Horizontal and Laddering
Phil Prust	Horizontal and Laddering
Eddie Rubessa	Horizontal and Laddering
Mark Sefton	Horizontal and Laddering
Gary Woodcock	Horizontal and Laddering
Michael Woodward	Horizontal, Laddering and Vertical

All the above named are also CEGSA Trip Coordinators.

Members may query the classification of any Trip Leader at any time with the committee.

It is a requirement that each trip be organised by an approved Trip Coordinator to be classed as an official CEGSA trip. It is also a requirement that dependent party trips be led by an approved Trip Leader at the appropriate skill level for the cave being entered.

How to Kill an Organisation

- 1. Don't come to meetings.
- 2. If you do, come late.
- **3.** Find fault with officers and members.
- **4.** Never accept an office; it is easier to criticise than do things.
- **5.** Nevertheless, get annoyed if you aren't appointed to the committee.
- **6.** If appointed to the committee, don't attend meetings.
- **7.** If asked by the chairman to give your opinion, say nothing. Afterwards tell everyone how you think things should be done.
- **8.** Do no more than necessary. When others roll up their sleeves to help things along, say the club is run by a clique.
- **9.** Hold back your dues as long as possible or don't pay at all.
- **10.** Don't bother about getting members, but if you do, be sure they are moaners like yourself.

Time flies ... speaking of Ancient Things.

The recent AGM was going very nicely last Saturday week as we all relaxed, watching Peter Horne stalking the occasional wasps and me trying not to scrounge food as I hadn't read the notice and forgot to bring any. All of a sudden this reverie was cruelly disrupted by the appearance of a Mott. This particular model had just turned 60 years old – heh heh heh! A Pensioner's pack is in the mail, Kev – this gives you 5 years to fill it out and get the paperwork in order.

I noted the sad reality that around the AGM audience, a number of us who have not reached his venerable age in fact have whiter hair – is he dyeing his, or has he just not washed out the last 50 caving trips?

I was unfortunate to be at the south end of the Mott when its north end blew out the candles on the cake. There seemed to be rather more air movement at my end than the cake's. But what is new? Umpteen years of caving and "surface reconnaissance" trips with this fellow have trained us all well for such treatment.

10 things I have not seen Motty do -

- 1. wear long pants
- 2. leave his compass and tape behind when going anywhere
- 3. say No to helping with Fred Aslin's huge project list
- 4. answer the phone without making grunting noises
- 5. survey a cave without measuring every pebble
- 6. admit to burning his helmet
- 7. looking remotely attractive (to anything!)
- 8. spend five evenings a week at home without any meetings
- 9. show any affection to Julie's 3? 5? 10? Cats
- 10. actually name a St Kilda player

But I must admit that half my Naracoorte thesis has been Motty's valuable discussion and contribution, as has so much of CEGSA's records. Happy 60th from all of us, Kev, and many more!

lan Lewis, on behalf of CEGSA

----See cover photo.----

Annual General Meeting Report

The Annual General Meeting was held at the home of Mark and Karin Sefton on Saturday 14th Feb. The Annual awards for 2008 were announced but as none of the recipients were present they will be presented at a later opportunity. The Annual Report was presented and accepted, followed by the election of officers and committee. The results of the election were as follows:

President: Mark Sefton Secretary: Graham Pilkington

Committee Members: Stan Flavel, Chris Gibbons, Paul Harper, Ian Lewis, Tim Payne.

The meeting was followed by a presentation to Kevin Mott including a cake for reaching his 60th birthday.

Athol Jackson.

REMINDER

Members are reminded that CEGSA will reimburse all reasonable expenses incurred by members in catering to the operation of the Group, execution of Office bearer activities; and running Group functions. If the expense will be beyond the pre-approved budget, then it's suggested that the member get prior approval from the Committee or a General Meeting before expending the money.

CAVING WORD FIND

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Can you find these words?

1. BASIN

4. CAVE PEARL

7. CHIMNEY

10. DOME

13. FLUTING

16. KARST

19. PINCHED

22. ROCKS

25. SPELEOLOGY

28. STALAGMITE

2. BREAKDOWN

5. CAVER

8. CONDUIT

11. DRIPSTONE

14. FORMATION

17. LIMESTONE

20. PITCH

23. SINKHOLE

26. SPELUNKER

29. SUBTERRANEAN

3. CALCITE

6. CHAMBER

9. CROUCHWAY

12. FLOWSTONE

15. GLACIER

18. MINERAL

21. POTHOLE

24. SODA STRAW

27. STALACTITE

30. SUMP

INDEX TO VOLUME 53

Volume 53 contained the following issues

53 (1) February 2008 Issue 209 53 (2) May 2008 Issue 210 53 (3) August 2008 Issue 211 53 (4) November 2008 Issue 212

Note: The Header for Volume 53 (3) is "Edition 210 Volume 53 Number 2". The pagination is correct.

The index is divided into the following categories

Caving activity by region
Technical and Other Articles

Key to abbreviations used in the index

A Anthropological

Bi Biological Bo Botanical
D Description Di Diving
E Exploration F Fantasy
G Geological H History
L Location M Map

P Photography Pa Palaeontology
S Surveying Sc Scientific
SR Search and Rescue T Tourist
Tg Tagged Tr Training

W Work

CAVING ACTVITY

Caving activities are listed by Cave Number, Newsletter reference, Author and Type of activity If a cave has been listed at the start of an article, but not described in the article, the reference will be that listing at the start of the article. Some caves may also be referenced in Technical and Other Articles. Where a group of caves is only mentioned in a summary they have similarly been grouped in the index.

ADELAIDE HILLS

A25	53 (1) p9	G Gartrell	Ε
Delamere	53 (4) p68	G Gartrell	Ε

EYRE PENINSULA

No trips reported

FLINDERS RANGES

F	53 (3) p55	E Rubessa	
	53 (4) p71	E Rubessa	Е
F7	53 (4) p71	S Flavel	H, Sc
F11	53 (1) p9	P Horne	Di

KANGAROO ISLAND

No trips reported

LOWER SOUTH EAST

L16	53 (3) p55	P Ashenden	
L46	53 (1) p9	P Horne	Di, S
L72	53 (4) p70	R Harris	Di

MURRAY PLAINS

M1	53 (3) p55	L Hoey	
	53 (3) p55	P Deer	
M14	53 (1) p9	L Hoey	Е
M15	53 (1) p9	L Hoey	Ε
M16	53 (1) p9	L Hoey	Е
M18	53 (1) p9	L Hoey	Е
	53 (3) p55	L Hoey	

	NULLARBOR PLAINS					
			N1699	53 (1) p8	P Ackroyd	Tg
N2	53 (3) p42 P Wright F	1	N1810	53 (1) p5	P Ackroyd	H, L
N43	` ' .	Гg			P Ackroyd	Τg
N48	` , .	Di	N2048	53 (3) p47	•	Τg
N85	` , .	 -l	N2098	53 (2) p18	•	Ρ̈́
N96	` ' .	-	N2147	53 (1) p8	P Ackroyd	Tg
N97		1	N2148	53 (1) p8	P Ackroyd	Tg
N98		1	N2149	53 (1) p8	P Ackroyd	Tg
N100		<u>'</u>	N2150	53 (1) p8	P Ackroyd	Tg
N127	` ' '	- Гg	N2151	53 (1) p8	P Ackroyd	Tg
N127		-	N2152	53 (1) p8	P Ackroyd	Tg
N129	` ' '	Гg _,M,S	N2153	53 (1) p8	P Ackroyd	Tg
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N130		Гg Га	N2156	53 (1) p8	P Ackroyd	_
N166		Гg	N2157	· · ·	•	Tg Ta
N168	` ' ' '	J.		53 (1) p8	P Ackroyd	Tg
N182	53 (3) p53 G Pilkington E		N2158	53 (1) p8	P Ackroyd	Tg
N328		Гg	N2159	53 (1) p8	P Ackroyd	Tg
N484	` ' ' '	1	N2160	53 (1) p8	P Ackroyd	Tg
N485	53 (1) p5 P Ackroyd	_	N2161	53 (1) p8	P Ackroyd	Tg
N605		<u>Г</u> g	N2162	53 (1) p8	P Ackroyd	Tg
N609		Гg	N2163	53 (1) p8	P Ackroyd	Tg
N610		Гg	N2164	53 (1) p8	P Ackroyd	Tg
N694		Гд	N2165	53 (1) p8	P Ackroyd	Tg
N707		Гд	N2166	53 (1) p8	P Ackroyd	<u>Tg</u>
N714		Гд	N2167	53 (1) p8	P Ackroyd	Tg
N722	53 (1) p8 P Ackroyd 7	Гд	N2168	53 (1) p8	P Ackroyd	Tg
N741	53 (1) p8 P Ackroyd	Гд	N2169	53 (1) p8	P Ackroyd	Tg
N744	53 (2) p18 P Ackroyd L	_	N2170	53 (1) p8	P Ackroyd	Tg
N946	53 (1) p8 P Ackroyd 7	Гд	N2171	53 (1) p8	P Ackroyd	Tg
N982	53 (3) p47 P Ackroyd 7	Гд	N2172	53 (1) p8	P Ackroyd	Tg
N993	53 (3) p52 G Pilkington		N2173	53 (1) p8	P Ackroyd	Tg
N1014	53 (3) p50 G Pilkington		N2174	53 (1) p8	P Ackroyd	Tg
N1017	53 (1) p8 P Ackroyd 7	Гд	N2175	53 (1) p8	P Ackroyd	Tg
N1027	53 (3) p49 G Pilkington		N2176	53 (1) p8	P Ackroyd	Tg
N1033	53 (3) p49 G Pilkington		N2177	53 (1) p8	P Ackroyd	Tg
N1059	53 (3) p52 G Pilkington		N2178	53 (1) p8	P Ackroyd	Tg
N1060	53 (3) p50 G Pilkington		N2179	53 (1) p8	P Ackroyd	Tg
N1064	53 (3) p53 G Pilkington		N2180	53 (1) p8	P Ackroyd	Tg
N1213	: : ·	Гд	N2181	53 (1) p8	P Ackroyd	Tg
N1229		Гg	N2182	53 (1) p8	P Ackroyd	Τg
N1240		Гg	N2183	53 (1) p8	P Ackroyd	Τg
N1317		Гg	N2184	53 (1) p8	P Ackroyd	Τg
N1318		Гg	N2185	53 (1) p8	P Ackroyd	Τg
N1319	: : · · · · · · · · · · · · · · · · · ·	Гg	N2186	53 (1) p8	P Ackroyd	Τg
	(, p : ,	9	N2187	53 (1) p8	P Ackroyd	Τg
N2141	53 (2) p20 P Ackroyd 7	Гд	N2188	53 (1) p8	P Ackroyd	Tg
N1242	` ' '	Гg	N2189	53 (1) p8	P Ackroyd	Tg
N1698	: : · · · · · · · · · · · · · · · · · ·	Гg	N2189	53 (1) p8	P Ackroyd	Tg
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N2190	53 (1) p8	P Ackroyd	Tg	N2303	53 (1) p8	P Ackroyd	Tg
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N2191	53 (1) p8	P Ackroyd	Tg	N2304	53 (1) p8	P Ackroyd	Tg
N2192	53 (1) p8	P Ackroyd	Tg	N2305	53 (2) p20	P Ackroyd	Tg
N2193	53 (1) p8	P Ackroyd		N2306		P Ackroyd	
		•	<u>Tg</u>				<u>Tg</u>
N2194	53 (1) p8	P Ackroyd	Tg	N2307	53 (2) p20	P Ackroyd	Tg
N2195	53 (1) p8	P Ackroyd	Tg	N2308	53 (2) p20	P Ackroyd	Tg
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N2196	53 (1) p8	P Ackroyd	Tg	N2309		P Ackroyd	Tg
N2197	53 (1) p8	P Ackroyd	Tg	N2310	53 (2) p20	P Ackroyd	Tg
N2198	53 (1) p8	P Ackroyd	Tg	N2311	53 (2) p20	P Ackroyd	Τg
		•				•	
N2199	53 (1) p8	P Ackroyd	Tg	N2312		P Ackroyd	Tg
N2200	53 (2) p20	P Ackroyd	Tg	N2313	53 (2) p20	P Ackroyd	Tg
N2203	53 (2) p20	P Ackroyd	Tg	N2314	53 (2) n20	P Ackroyd	Tg
		•	-			•	_
N2255	53 (2) p20	P Ackroyd	Tg	N2315		P Ackroyd	Tg
N2257	53 (1) p8	P Ackroyd	Tg	N2316	53 (2) p20	P Ackroyd	Tg
N2258	53 (1) p8	P Ackroyd	Tg	N2317	53 (2) p20	P Ackroyd	Tg
N2259		•	-	N2318		•	_
	53 (1) p8	P Ackroyd	<u>Tg</u>			P Ackroyd	Tg
N2260	53 (1) p8	P Ackroyd	Tg	N2319	53 (2) p20	P Ackroyd	Tg
N2261	53 (1) p8	P Ackroyd	Tg	N2320	53 (2) p20	P Ackroyd	Tg
N2262	53 (1) p8	•		N2321		P Ackroyd	_
		P Ackroyd	Tg _			•	Tg
N2263	53 (1) p8	P Ackroyd	Tg	N2322	53 (2) p20	P Ackroyd	Tg
N2264	53 (1) p8	P Ackroyd	Tg	N2323	53 (2) p20	P Ackroyd	Tg
N2265	53 (1) p8	P Ackroyd		N2324		P Ackroyd	
		•	Tg			•	Tg
N2266	53 (1) p8	P Ackroyd	Tg	N2325	53 (2) p20	P Ackroyd	Tg
N2267	53 (1) p8	P Ackroyd	Tg	N2326	53 (2) p20	P Ackroyd	Tg
N2268	53 (1) p8	P Ackroyd		N2327		P Ackroyd	_
		-	Tg			•	Tg
N2269	53 (1) p8	P Ackroyd	Tg	N2328	53 (2) p20	P Ackroyd	Tg
N2270	53 (1) p8	P Ackroyd	Tg	N2329	53 (2) p20	P Ackroyd	Tg
N2271	53 (1) p8	P Ackroyd	Tg	N2330		P Ackroyd	Τg
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N2272	53 (1) p8	P Ackroyd	Tg	N2331	53 (2) p20	P Ackroyd	Tg
N2273	53 (1) p8	P Ackroyd	Tg	N2332	53 (2) p20	P Ackroyd	Tg
N2274	53 (1) p8	P Ackroyd	Tg	N2333		P Ackroyd	Τg
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N2275	53 (1) p8	P Ackroyd	Tg	N2334		P Ackroyd	Tg
N2276	53 (1) p8	P Ackroyd	Tg	N2335	53 (2) p20	P Ackroyd	Tg
N2277	53 (1) p8	P Ackroyd	Tg	N2336	53 (2) n20	P Ackroyd	Τg
		•				•	
N2278	53 (1) p8	P Ackroyd	Tg	N2337		P Ackroyd	Tg
N2279	53 (1) p8	P Ackroyd	Tg	N2338	53 (2) p20	P Ackroyd	Tg
N2280	53 (1) p8	P Ackroyd	Tg	N2339	53 (2) p20	P Ackroyd	Tg
N2281	53 (1) p8	P Ackroyd	-	N2340	\	P Ackroyd	_
		•	Tg -		· , .	•	Tg
N2282	53 (1) p8	P Ackroyd	Tg	N2341	53 (2) p20	P Ackroyd	Tg
N2283	53 (1) p8	P Ackroyd	Tg	N2342	53 (2) p20	P Ackroyd	Tg
N2284	53 (1) p8	P Ackroyd	Tg	N2343		P Ackroyd	Τg
		•				•	
N2285	53 (1) p8	P Ackroyd	Tg	N2344		P Ackroyd	Tg
N2286	53 (1) p7	P Ackroyd	В	N2345	53 (2) p20	P Ackroyd	Tg
	53 (1) p8	P Ackroyd	Tg	N2346	53 (2) n20	P Ackroyd	Τg
N12207		•	-				_
N2287	53 (1) p8	P Ackroyd	Tg	N2347	· , .	P Ackroyd	Tg
N2288	53 (1) p8	P Ackroyd	Tg	N2348	53 (2) p20	P Ackroyd	Tg
N2289	53 (1) p8	P Ackroyd	Tg	N2349	53 (2) p20	P Ackroyd	Τg
		•				•	
N2290	53 (1) p8	P Ackroyd	<u>Tg</u>	N2380		P Ackroyd	<u>Tg</u>
N2291	53 (1) p8	P Ackroyd	Tg	N3281	53 (2) p20	P Ackroyd	Tg
N2292	53 (1) p8	P Ackroyd	Tg	N2382	53 (2) p20	P Ackroyd	Tg
N2293	53 (1) p8	P Ackroyd	-	N2401		P Ackroyd	_
		•	Tg Ta				Tg
N2294	53 (1) p8	P Ackroyd	Tg	N2402		P Ackroyd	Tg
N2295	53 (1) p8	P Ackroyd	Tg	N2403	53 (2) p20	P Ackroyd	Tg
N2296	53 (1) p8	P Ackroyd	Tg	N2404		P Ackroyd	Τg
		•	-			•	_
N2297	53 (1) p8	P Ackroyd	<u>T</u> g	N2405		P Ackroyd	<u>T</u> g
N2298	53 (1) p8	P Ackroyd	Tg	N2406	53 (2) p20	P Ackroyd	Tg
N2299	53 (1) p8	P Ackroyd	Tg	N2407	53 (2) n20	P Ackroyd	Τg
N2300	- J / P J	•	-			•	
INZJUU	52 (1) no	D A alarava	וח				1.~
	53 (1) p8	P Ackroyd	Tg	N2408	53 (2) p20	•	Tg
N2301	53 (1) p8 53 (1) p8	P Ackroyd P Ackroyd	Tg	N2408 N2409		P Ackroyd P Ackroyd	Tg
					53 (2) p20	•	_

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N2411	53 (2) p20 P Ackroyd	Tg	N2481	53 (2) p18 P Ackroyd	L, Tg
N2412	53 (2) p20 P Ackroyd		N2482	53 (2) p18 P Ackroyd	
		Tg T		` ' .	L, Tg
N2413	53 (2) p20 P Ackroyd	Tg	N2483	53 (2) p18 P Ackroyd	L, Tg
N2414	53 (2) p20 P Ackroyd	Tg	N2484	53 (2) p18 P Ackroyd	L, Tg
N2415	53 (2) p20 P Ackroyd	Tg	N2485	53 (2) p18 P Ackroyd	L, Tg
	` ' '				
N2416	53 (2) p20 P Ackroyd	<u>Tg</u>	N2486	53 (2) p18 P Ackroyd	L, Tg
N2417	53 (2) p20 P Ackroyd	Tg	N2487	53 (2) p18 P Ackroyd	L, Tg
N2418	53 (2) p20 P Ackroyd	Tg	N2488	53 (2) p18 P Ackroyd	L, Tg
N2419	53 (2) p20 P Ackroyd	Tg	N2489	53 (2) p18 P Ackroyd	L, Tg
N2420	53 (2) p20 P Ackroyd	<u>Tg</u>	N2490	53 (2) p18 P Ackroyd	L, Tg
N2421	53 (2) p20 P Ackroyd	Tg	N2491	53 (2) p18 P Ackroyd	L, Tg
N2422	53 (2) p20 P Ackroyd	Tg	N2492	53 (2) p18 P Ackroyd	L, Tg
N2423	53 (2) p20 P Ackroyd	Tg	N2493	53 (2) p18 P Ackroyd	L, Tg
	` ' '				-
N2424	53 (2) p20 P Ackroyd	<u>Tg</u>	N2494	53 (2) p18 P Ackroyd	L, Tg
N2425	53 (2) p20 P Ackroyd	Tg	N2495	53 (2) p18 P Ackroyd	L, Tg
N2426	53 (2) p20 P Ackroyd	Tg	N2496	53 (2) p18 P Ackroyd	L, Tg
N2427	53 (2) p20 P Ackroyd	Tg	N2497	53 (2) p18 P Ackroyd	L, Tg
		-			_
N2428	53 (2) p20 P Ackroyd	Tg	N2498	53 (2) p18 P Ackroyd	L, Tg
N2429	53 (2) p20 P Ackroyd	Tg	N2499	53 (2) p18 P Ackroyd	L, Tg
N2430	53 (2) p20 P Ackroyd	Tg	N2500	53 (2) p20 P Ackroyd	Tg
N2431	53 (2) p20 P Ackroyd	Tg	N2501	53 (2) p20 P Ackroyd	Tg
				` ' .	
N2432	53 (2) p20 P Ackroyd	Tg	N2502	53 (2) p20 P Ackroyd	<u>Tg</u>
N2433	53 (2) p20 P Ackroyd	Tg	N2503	53 (2) p20 P Ackroyd	Tg
N2434	53 (2) p20 P Ackroyd	Tg	N2504	53 (2) p20 P Ackroyd	Tg
N2435	53 (2) p20 P Ackroyd	Tg	N2505	53 (2) p20 P Ackroyd	Τg
N2436	53 (2) p20 P Ackroyd	Tg	N2506	53 (2) p20 P Ackroyd	Tg _
N2437	53 (2) p20 P Ackroyd	Tg	N2507	53 (2) p20 P Ackroyd	Tg
N2438	53 (2) p20 P Ackroyd	Tg	N2508	53 (2) p20 P Ackroyd	Tg
N2439	53 (2) p20 P Ackroyd	Tg	N2509	53 (2) p20 P Ackroyd	Τg
N2440	53 (2) p20 P Ackroyd		N2510		-
		Tg T		53 (2) p20 P Ackroyd	Tg T
N2441	53 (2) p20 P Ackroyd	Tg	N2511	53 (2) p20 P Ackroyd	Tg
N2442	53 (2) p20 P Ackroyd	Tg	N2512	53 (2) p20 P Ackroyd	Tg
N2443	53 (2) p20 P Ackroyd	Tg	N2513	53 (2) p20 P Ackroyd	Tg
N2444	53 (2) p20 P Ackroyd		N2514	53 (2) p20 P Ackroyd	Tg
		Tg			
N2445	53 (2) p20 P Ackroyd	<u>Tg</u>	N2518	53 (4) p66 P Ackroyd	Tg
N2446	53 (2) p20 P Ackroyd	Tg	N2519	53 (4) p66 P Ackroyd	Tg
N2447	53 (2) p20 P Ackroyd	Tg	N2520	53 (4) p66 P Ackroyd	Tg
N2448	53 (2) p20 P Ackroyd	Tg	N2521	53 (4) p66 P Ackroyd	Tg
N2449	53 (2) p20 P Ackroyd	-	N2522	` ' .	-
	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Tg T		53 (4) p66 P Ackroyd	Tg T
N2450	53 (2) p20 P Ackroyd	Tg	N2523	53 (4) p66 P Ackroyd	Tg
N2461	53 (2) p18 P Ackroyd	L, Tg	N2524	53 (4) p66 P Ackroyd	Tg
N2462	53 (2) p18 P Ackroyd	L, Tg	N2525	53 (4) p66 P Ackroyd	Tg
N2463	53 (2) p18 P Ackroyd	L, Tg	N2526	53 (4) p66 P Ackroyd	Tg
	` ' '				
N2464	53 (2) p18 P Ackroyd	L, Tg	N2527	53 (4) p66 P Ackroyd	<u>Tg</u>
N2465	53 (2) p18 P Ackroyd	L, Tg	N2528	53 (4) p66 P Ackroyd	Tg
N2466	53 (2) p18 P Ackroyd	L, Tg	N2529	53 (4) p66 P Ackroyd	Tg
N2467	53 (2) p18 P Ackroyd	L, Tg	N2530	53 (4) p66 P Ackroyd	Τg
N2468	53 (2) p18 P Ackroyd	-	N2531	53 (4) p66 P Ackroyd	
		L, Tg			Tg
N2469	53 (2) p18 P Ackroyd	L, Tg	N2532	53 (4) p66 P Ackroyd	Tg
N2470	53 (2) p18 P Ackroyd	L, Tg	N2533	53 (4) p66 P Ackroyd	Tg
N2471	53 (2) p18 P Ackroyd	L, Tg	N2534	53 (4) p66 P Ackroyd	Tg
N2472	53 (2) p18 P Ackroyd	L, Tg	N2535	53 (4) p66 P Ackroyd	Tg
		_			
N2473	53 (2) p18 P Ackroyd	L, Tg	N2536	53 (4) p66 P Ackroyd	<u>Tg</u>
N2474	53 (2) p18 P Ackroyd	L, Tg	N2537	53 (4) p66 P Ackroyd	Tg
N2475	53 (2) p18 P Ackroyd	L, Tg	N2538	53 (4) p66 P Ackroyd	Tg
N2476	53 (2) p18 P Ackroyd	L, Tg	N2539	53 (4) p66 P Ackroyd	Tg
		_			-
N2477	53 (2) p18 P Ackroyd	L, Tg	N2540	53 (4) p66 P Ackroyd	Tg T
N2478	53 (2) p18 P Ackroyd	L, Tg	N2541	53 (4) p66 P Ackroyd	Tg
N2479	53 (2) p18 P Ackroyd	L, Tg	N2542	53 (4) p66 P Ackroyd	Tg
N2480	53 (2) p18 P Ackroyd	L, Tg	N2543	53 (4) p66 P Ackroyd	Tg
	() -	, 3		() = = - : = = - : = - ;	9

N2544	53 (4) p66 P Ackroyd	Tg	N2626	53 (2) p19 P Ackroyd	L, Tg
	` <i>'</i> .				
N2545	53 (4) p66 P Ackroyd	Tg	N2627	53 (2) p19 P Ackroyd	L, Tg
N2546	53 (4) p66 P Ackroyd	Tg	N2628	53 (2) p19 P Ackroyd	L, Tg
N2547	53 (4) p66 P Ackroyd	Tg	N2629	53 (2) p19 P Ackroyd	L, Tg
	` ' .			` ' .	
N2570	53 (2) p20 P Ackroyd	Tg	N2630	53 (2) p19 P Ackroyd	L, Tg
N2571	53 (2) p20 P Ackroyd	Tg	N2631	53 (2) p19 P Ackroyd	L, Tg
N2572	` <i>'</i> .	-	N2632	53 (2) p19 P Ackroyd	
	53 (2) p20 P Ackroyd	<u>Tg</u>		` , .	L, Tg
N2573	53 (2) p20 P Ackroyd	Tg	N2633	53 (2) p19 P Ackroyd	L, Tg
N2574	53 (2) p20 P Ackroyd	Tg	N2634	53 (2) p20 P Ackroyd	Tg
		-	N2635		
N2575	53 (2) p20 P Ackroyd	Tg		53 (2) p20 P Ackroyd	Tg
N2576	53 (2) p20 P Ackroyd	Tg	N2644	53 (4) p66 P Ackroyd	Tg
N2577	53 (2) p20 P Ackroyd	Tg	N2645	53 (4) p66 P Ackroyd	Tg
	` <i>'</i> .	-	N2646	` ' .	
N2578	53 (2) p20 P Ackroyd	<u>Tg</u>		53 (4) p66 P Ackroyd	<u>Tg</u>
N2579	53 (2) p20 P Ackroyd	Tg	N2647	53 (4) p66 P Ackroyd	Tg
N2580	53 (2) p20 P Ackroyd	Tg	N2649	53 (4) p66 P Ackroyd	Tg
	` <i>'</i> .	-			
N2581	53 (2) p20 P Ackroyd	<u>Tg</u>	N2651	53 (3) p47 P Ackroyd	Tg
N2582	53 (2) p20 P Ackroyd	Tg	N2652	53 (3) p47 P Ackroyd	Tg
N2583	53 (2) p20 P Ackroyd	Tg	N2653	53 (3) p47 P Ackroyd	Tg
	` ' .	-			
N2584	53 (2) p20 P Ackroyd	Tg	N2654	53 (3) p47 P Ackroyd	Tg
N2585	53 (2) p20 P Ackroyd	Tg	N2655	53 (3) p44 P Ackroyd	D
N2586	53 (2) p20 P Ackroyd	Tg		53 (3) p46 P Ackroyd	Sc
	` ' ' '	-	NOCEC		
N2587	53 (2) p20 P Ackroyd	Tg	N2656	53 (3) p47 P Ackroyd	Tg
N2588	53 (2) p20 P Ackroyd	Tg	N2657	53 (3) p47 P Ackroyd	Tg
N2589	53 (2) p20 P Ackroyd	Tg	N2658	53 (3) p47 P Ackroyd	Tg
	` ' .			` , .	-
N2590	53 (2) p20 P Ackroyd	Tg	N2659	53 (3) p47 P Ackroyd	Tg
N2591	53 (2) p20 P Ackroyd	Tg	N2660	53 (3) p46 P Ackroyd	Bi
N2592	53 (2) p20 P Ackroyd	Tg	N2661	53 (3) p47 P Ackroyd	Tg
	` ' .			` , .	-
N2593	53 (2) p20 P Ackroyd	Tg	N2662	53(3) p46 P Ackroyd	D
N2594	53 (2) p20 P Ackroyd	Tg	N2663	53 (3) p47 P Ackroyd	Tg
N2595	53 (2) p20 P Ackroyd	Tg	N2664	53 (3) p47 P Ackroyd	Τg
	` <i>'</i> .	-			-
N2596	53 (2) p20 P Ackroyd	Tg	N2665	53 (3) p47 P Ackroyd	Tg
N2597	53 (2) p20 P Ackroyd	Tg	N2666	53 (3) p47 P Ackroyd	Tg
N2598	53 (2) p20 P Ackroyd	Tg	N2667	53 (3) p47 P Ackroyd	Tg
	` ' ' '	-			
N2599	53 (2) p20 P Ackroyd	Tg	N2668	53 (3) p47 P Ackroyd	Tg
N2600	53 (2) p20 P Ackroyd	Tg	N2669	53 (3) p47 P Ackroyd	Tg
N2601	53 (2) p19 P Ackroyd	L, Tg	N2670	53 (3) p47 P Ackroyd	Tg
	` ' ' '			` ' .	
N2602	53 (2) p19 P Ackroyd	L, Tg	N2671	53 (3) p46 P Ackroyd	Bi, D
N2603	53 (2) p19 P Ackroyd	L, Tg	N2672	53 (3) p47 P Ackroyd	Tg
N2604	53 (2) p19 P Ackroyd	L, Tg	N2673	53 (3) p47 P Ackroyd	Tg
N2605	` <i>'</i> .		N2674	` , .	
	53 (2) p19 P Ackroyd	L, Tg		53 (3) p47 P Ackroyd	Tg
N2606	53 (2) p19 P Ackroyd	L, Tg	N2675	53 (3) p47 P Ackroyd	Tg
N2607	53 (2) p19 P Ackroyd	L, Tg	N2676	53 (3) p47 P Ackroyd	Tg
N2608	53 (2) p19 P Ackroyd	L, Tg	N2677	53 (3) p47 P Ackroyd	Tg
N2609	53 (2) p19 P Ackroyd	L, Tg	N2678	53 (3) p47 P Ackroyd	Tg
N2610	53 (2) p19 P Ackroyd	L, Tg	N2679	53 (3) p47 P Ackroyd	Tg
N2611	53 (2) p19 P Ackroyd	L, Tg	N2680	53 (3) p47 P Ackroyd	Tg
	` <i>'</i> .	-			
N2612	53 (2) p19 P Ackroyd	L, Tg	N2681	53 (3) p46 P Ackroyd	D, W
N2613	53 (2) p19 P Ackroyd	L, Tg	N2682	53 (3) p46 P Ackroyd	Tg
N2614	53 (2) p19 P Ackroyd	L, Tg	N2683	53 (3) p46 P Ackroyd	Tg
	` <i>'</i> .	_			
N2615	53 (2) p19 P Ackroyd	L, Tg	N2684	53 (3) p46 P Ackroyd	Tg
N2616	53 (2) p19 P Ackroyd	L, Tg	N2685	53 (3) p46 P Ackroyd	Tg
N2617	53 (2) p19 P Ackroyd	L, Tg	N2686	53 (3) p46 P Ackroyd	Tg
N2618	53 (2) p19 P Ackroyd	L, Tg	N2687	53 (3) p46 P Ackroyd	Tg
N2619	53 (2) p19 P Ackroyd	L, Tg	N2688	53 (3) p46 P Ackroyd	Tg
N2620	53 (2) p19 P Ackroyd	L, Tg	N2689	53 (3) p46 P Ackroyd	Tg
				` , .	
N2621	53 (2) p19 P Ackroyd	L, Tg	N2690	53 (3) p46 P Ackroyd	Tg
N2622	53 (2) p19 P Ackroyd	L, Tg	N2691	53 (3) p46 P Ackroyd	Tg
N2623	53 (2) p19 P Ackroyd	L, Tg	N2692	53 (3) p46 P Ackroyd	Tg
	` ' .	-			
N2624	53 (2) p19 P Ackroyd	L, Tg	N2693	53 (3) p46 P Ackroyd	Tg
N2625	53 (2) p19 P Ackroyd	L, Tg	N2694	53 (3) p46 P Ackroyd	Tg
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N2695	53 (3) p46 P Ackroyd	D	N2755	53 (3) p46 P Ackroyd	Tg
N2696	` ' .		N2756	53 (3) p46 P Ackroyd	
		<u>Tg</u>			Tg
N2697	53 (3) p46 P Ackroyd	Тg	N2757	53 (3) p46 P Ackroyd	Tg
N2698	53 (3) p46 P Ackroyd	Tg	N2758	53 (3) p46 P Ackroyd	Tg
		-	N2759		
N2699		Tg		53 (3) p46 P Ackroyd	Tg
N2700	53 (3) p46 P Ackroyd	Тg	N2760	53 (3) p46 P Ackroyd	Tg
N2701		Τg	N2761	53 (3) p46 P Ackroyd	Τg
		-			
N2702		Tg	N2762	53 (3) p46 P Ackroyd	Tg
N2703	53 (3) p46 P Ackroyd	Tg	N2763	53 (3) p46 P Ackroyd	Tg
N2704	` ' .	Гg	N2764	53 (3) p46 P Ackroyd	Τg
		-			
N2705	53 (3) p46 P Ackroyd	Тg	N2765	53 (3) p46 P Ackroyd	Tg
N2706	53 (3) p46 P Ackroyd	Тg	N2766	53 (3) p46 P Ackroyd	Tg
N2707		Гg	N2767	53 (3) p46 P Ackroyd	Τg
		-			
N2708	53 (3) p46 P Ackroyd	Тg	N2768	53 (3) p46 P Ackroyd	Tg
N2709	53 (3) p46 P Ackroyd	Tg	N2769	53 (3) p46 P Ackroyd	Tg
N2710			N2770	53 (3) p46 P Ackroyd	
	` ' '	Tg -		` ' ' '	Tg
N2711	53 (3) p46 P Ackroyd	Tg	N2771	53 (3) p46 P Ackroyd	Tg
N2712	53 (3) p46 P Ackroyd	Tg	N2772	53 (3) p46 P Ackroyd	Tg
N2713	` ' .	-	N2773	53 (3) p46 P Ackroyd	
		<u>Tg</u>			Tg
N2714	53 (3) p46 P Ackroyd	Тg	N2806	53 (4) p66 P Ackroyd	Tg
N2715	53 (3) p46 P Ackroyd	Τg	N2807	53 (4) p66 P Ackroyd	Tg
N2716		-	N2808		
		<u>Tg</u>		53 (4) p66 P Ackroyd	Tg
N2717	53 (3) p46 P Ackroyd	Тg	N2809	53 (4) p66 P Ackroyd	Tg
N2718	53 (3) p46 P Ackroyd	Τg	N2810	53 (4) p66 P Ackroyd	Tg
N2719		-	N2811		
		<u>Tg</u>		53 (4) p66 P Ackroyd	Tg
N2720	53 (3) p46 P Ackroyd	Тg	N2812	53 (4) p66 P Ackroyd	Tg
N2721	53 (3) p46 P Ackroyd	Τg	N2813	53 (4) p66 P Ackroyd	Tg
N2722		-			
		Tg	N2814	53 (4) p66 P Ackroyd	Tg
N2723	53 (3) p46 P Ackroyd	Гg	N2815	53 (4) p66 P Ackroyd	Tg
N2724		Τg	N2816	53 (4) p66 P Ackroyd	Τg
		-			
N2725		Tg	N2817	53 (4) p66 P Ackroyd	Tg
N2726	53 (3) p46 P Ackroyd	Тg	N2818	53 (4) p66 P Ackroyd	Tg
N2727		Τg	N2819	53 (4) p66 P Ackroyd	Τg
		-			
N2728		Тg	N2820	53 (4) p66 P Ackroyd	Tg
N2729	53 (3) p46 P Ackroyd	Tg	N2821	53 (4) p65 P Ackroyd	D
N2730		Τg		53 (4) p66 P Ackroyd	Tg
		-	Nigogo		
N2731		Тg	N2822	53 (4) p66 P Ackroyd	Tg
N2732	53 (3) p46 P Ackroyd	Тg	N2823	53 (4) p66 P Ackroyd	Tg
N2733		Τg	N2824	53 (4) p66 P Ackroyd	Τg
	` ' .				
N2734		Тg	N2825	53 (4) p66 P Ackroyd	Tg
N2735	53 (3) p46 P Ackroyd	Tg	N2826	53 (4) p66 P Ackroyd	Tg
N2736	53 (3) p46 P Ackroyd	Τg	N2827	53 (4) p66 P Ackroyd	Tg
N2737		-			
		Tg	N2828	53 (4) p66 P Ackroyd	Tg
N2738	53 (3) p46 P Ackroyd	Тg	N2829	53 (4) p66 P Ackroyd	Tg
N2739	53 (3) p46 P Ackroyd	Tg	N2830	53 (4) p66 P Ackroyd	Tg
	` ' .				
N2740		Tg	N2831	53 (4) p65 P Ackroyd	D
N2741	53 (3) p46 P Ackroyd	Тg		53 (4) p66 P Ackroyd	Tg
N2742		Τg	N2832	53 (4) p66 P Ackroyd	Τg
N2743		Тg	N2833	53 (4) p66 P Ackroyd	Tg
N2744	53 (3) p46 P Ackroyd	Tg	N2834	53 (4) p66 P Ackroyd	Tg
N2745	53 (3) p46 P Ackroyd	Τg	N2835	53 (4) p66 P Ackroyd	Τg
		-			
N2746		Tg -	N2836	53 (4) p66 P Ackroyd	Tg
N2747	53 (3) p46 P Ackroyd	Тg	N2837	53 (4) p66 P Ackroyd	Tg
N2748		Тg	N2838	53 (4) p66 P Ackroyd	Τg
		-			
N2749		<u>Tg</u>	N2839	53 (4) p66 P Ackroyd	Tg
N2750	53 (3) p46 P Ackroyd	D	N2840	53 (4) p66 P Ackroyd	Tg
N2751		Tg	N2841	53 (4) p66 P Ackroyd	Τg
		-			
N2752		<u>Tg</u>	N2842	53 (4) p66 P Ackroyd	Tg
N2753	53 (3) p46 P Ackroyd	Тg	N2843	53 (4) p66 P Ackroyd	Tg
N2754		Τg	N2844	53 (4) p66 P Ackroyd	Τg
• .	(-, - :- : : : : : : : : : : : : : : : : :	9		(· / - 00 · / 10/110 / U	. 9

N2845	53 (4) p66 P Ackroyd	Tg	N2905	53 (4) p66 P Ackroyd	Tg
N2846			N2906		
	53 (4) p66 P Ackroyd	Tg _		53 (4) p66 P Ackroyd	Tg
N2847	53 (4) p66 P Ackroyd	Tg	N2907	53 (4) p66 P Ackroyd	Tg
N2848	53 (4) p66 P Ackroyd	Tg	N2908	53 (4) p66 P Ackroyd	Tg
N2849	53 (4) p66 P Ackroyd	Tg	N2909	53 (4) p66 P Ackroyd	Tg
		-		` ' '	-
N2850	53 (4) p66 P Ackroyd	Tg	N2910	53 (4) p66 P Ackroyd	Tg
N2851	53 (4) p66 P Ackroyd	Tg	N2911	53 (4) p66 P Ackroyd	Tg
N2852	53 (4) p66 P Ackroyd	Tg	N2912	53 (4) p66 P Ackroyd	Tg
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N2853	53 (4) p66 P Ackroyd	Tg	N2913	53 (4) p66 P Ackroyd	Tg
N2854	53 (4) p66 P Ackroyd	Tg	N2914	53 (4) p66 P Ackroyd	Tg
N2855	53 (4) p66 P Ackroyd	Tg	N2915	53 (4) p66 P Ackroyd	Τg
		-		` ' '	
N2856	53 (4) p66 P Ackroyd	Tg	N2916	53 (4) p66 P Ackroyd	Tg
N2857	53 (4) p66 P Ackroyd	Tg	N2917	53 (4) p66 P Ackroyd	Tg
N2858	53 (4) p66 P Ackroyd	Tg	N2918	53 (4) p66 P Ackroyd	Tg
		-		` ' '	
N2859	53 (4) p66 P Ackroyd	Tg	N2919	53 (4) p66 P Ackroyd	Tg
N2860	53 (4) p66 P Ackroyd	Tg	N2920	53 (4) p66 P Ackroyd	Tg
N2861	53 (4) p66 P Ackroyd	Tg	N2921	53 (4) p66 P Ackroyd	Tg
N2862	53 (4) p66 P Ackroyd	Tg	N2922	53 (4) p65 P Ackroyd	H
			INZSZZ	` ' '	
N2863	53 (4) p66 P Ackroyd	Tg		53 (4) p66 P Ackroyd	Tg
N2864	53 (4) p66 P Ackroyd	Tg	N2923	53 (4) p66 P Ackroyd	Tg
N2865	53 (4) p66 P Ackroyd	Tg	N2924	53 (4) p66 P Ackroyd	Τg
				` ' '	
N2866	53 (4) p66 P Ackroyd	Tg	N2925	53 (4) p66 P Ackroyd	Tg
N2867	53 (4) p66 P Ackroyd	Tg	N2926	53 (4) p66 P Ackroyd	Tg
N2868	53 (4) p66 P Ackroyd	Tg	N2927	53 (4) p66 P Ackroyd	Tg
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N2869	53 (4) p66 P Ackroyd	Tg	N2928	53 (4) p66 P Ackroyd	<u>Tg</u>
N2870	53 (4) p66 P Ackroyd	Tg	N2929	53 (4) p66 P Ackroyd	Tg
N2871	53 (4) p66 P Ackroyd	Tg	N2930	53 (4) p66 P Ackroyd	Tg
N2872	53 (4) p66 P Ackroyd	Tg	N2931	53 (4) p66 P Ackroyd	Tg
		-		` , .	
N2873	53 (4) p66 P Ackroyd	Tg	N2932	53 (4) p66 P Ackroyd	Tg
N2874	53 (4) p66 P Ackroyd	Tg	N2933	53 (4) p66 P Ackroyd	Tg
N2875	53 (4) p66 P Ackroyd	Tg	N2934	53 (4) p66 P Ackroyd	Tg
N2876	53 (4) p66 P Ackroyd	Tg	N2035	53 (4) p66 P Ackroyd	Tg
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N2877	53 (4) p66 P Ackroyd	Tg	N2936	53 (4) p66 P Ackroyd	Tg
N2878	53 (4) p66 P Ackroyd	Tg	N2937	53 (4) p66 P Ackroyd	Tg
N2879	53 (4) p66 P Ackroyd	Tg	N2938	53 (4) p66 P Ackroyd	Tg
N2880	53 (4) p66 P Ackroyd		N2939	53 (4) p66 P Ackroyd	Tg
	` , .	Tg			
N2881	53 (4) p66 P Ackroyd	Tg	N2940	53 (4) p66 P Ackroyd	Tg
N2882	53 (4) p66 P Ackroyd	Tg	N2941	53 (4) p66 P Ackroyd	Tg
N2883	53 (4) p66 P Ackroyd	Tg	N2942	53 (4) p65 P Ackroyd	H
N2884	` ' !		. 120 .2		
	53 (4) p66 P Ackroyd	Tg _	110010	53 (4) p66 P Ackroyd	Tg —
N2885	53 (4) p66 P Ackroyd	Tg	N2943	53 (4) p66 P Ackroyd	Tg
N2886	53 (4) p66 P Ackroyd	Tg	N2944	53 (4) p66 P Ackroyd	Tg
N2887	53 (4) p66 P Ackroyd	Tg	N2945	53 (4) p66 P Ackroyd	Τg
N2888	53 (4) p66 P Ackroyd	Tg	N2946	53 (4) p66 P Ackroyd	Tg
N2889	53 (4) p66 P Ackroyd	Tg	N2947	53 (4) p66 P Ackroyd	Tg
N2890	53 (4) p66 P Ackroyd	Tg	N2948	53 (4) p66 P Ackroyd	Tg
N2891			N2949	` ' '	
	53 (4) p66 P Ackroyd	<u>Tg</u>		53 (4) p66 P Ackroyd	<u>Tg</u>
N2892	53 (4) p66 P Ackroyd	Tg	N2950	53 (4) p66 P Ackroyd	Tg
N2893	53 (4) p66 P Ackroyd	Tg	N2951	53 (4) p66 P Ackroyd	Tg
N2894	53 (4) p66 P Ackroyd	Tg	N2952	53 (4) p66 P Ackroyd	Tg
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N2895	53 (4) p66 P Ackroyd	<u>Tg</u>	N2953	53 (4) p65 P Ackroyd	E, Pa
N2896	53 (4) p66 P Ackroyd	Tg		53 (4) p66 P Ackroyd	Tg
N2897	53 (4) p66 P Ackroyd	Tg	N2954	53 (4) p66 P Ackroyd	Tg
N2898	53 (4) p66 P Ackroyd		N2955	53 (4) p66 P Ackroyd	
		Tg		` ' '	Tg
N2899	53 (4) p66 P Ackroyd	Tg	N2956	53 (4) p66 P Ackroyd	Tg
N2900	53 (4) p66 P Ackroyd	Tg	N2957	53 (4) p66 P Ackroyd	Tg
N2901	53 (4) p66 P Ackroyd	Tg	N2958	53 (4) p66 P Ackroyd	Τg
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N2902	53 (4) p66 P Ackroyd	Tg	N2959	53 (4) p66 P Ackroyd	Tg
N2903	53 (4) p66 P Ackroyd	Tg	N2960	53 (4) p66 P Ackroyd	Tg
N2904	53 (4) p66 P Ackroyd	Tg	N2961	53 (4) p66 P Ackroyd	Tg
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N2962	53 (4) p66 P Ackroyd Tg	NXK976	53 (2) p20 P Ackroyd
N2963	53 (4) p66 P Ackroyd Tg	NXK977	53 (2) p20 P Ackroyd
N2964	53 (4) p66 P Ackroyd Tg	NXK978	53 (2) p20 P Ackroyd
N2965	53 (4) p66 P Ackroyd Tg	NXK979	53 (2) p20 P Ackroyd
N2966	53 (4) p66 P Ackroyd Tg	NXK980	53 (2) p20 P Ackroyd
N2967	53 (4) p66 P Ackroyd Tg	NXK981	53 (2) p20 P Ackroyd
N2968	53 (4) p66 P Ackroyd Tg	NXK982	53 (2) p20 P Ackroyd
N2969	53 (4) p65 P Ackroyd D	NXK983	53 (2) p20 P Ackroyd
Noon	53 (4) p66 P Ackroyd Tg	NXK984	53 (2) p20 P Ackroyd
N3000	53 (4) p66 P Ackroyd Tg	NXK985	53 (2) p20 P Ackroyd
N3001	53 (4) p66 P Ackroyd Tg	NXK986	53 (2) p20 P Ackroyd
N3002	53 (4) p66 P Ackroyd Tg	NXK987	53 (2) p20 P Ackroyd
N3003	53 (4) p66 P Ackroyd Tg	NXK988	53 (2) p20 P Ackroyd
N3004	53 (4) p66 P Ackroyd Tg	NXK989	53 (2) p20 P Ackroyd
N3005 N3006	53 (4) p66 P Ackroyd Tg	NXK990 NXK991	53 (2) p20 P Ackroyd 53 (2) p20 P Ackroyd
N3007	53 (4) p66 P Ackroyd Tg 53 (4) p66 P Ackroyd Tg	NXK991 NXK992	53 (2) p20 P Ackroyd
N3007	53 (4) p66 P Ackroyd Tg	NXK993	53 (2) p20 P Ackroyd
N3009	53 (4) p66 P Ackroyd Tg	NXK994	53 (2) p20 P Ackroyd
N3010	53 (4) p66 P Ackroyd Tg	NXK995	53 (2) p20 P Ackroyd
N3011	53 (4) p66 P Ackroyd Tg	NXK996	53 (2) p20 P Ackroyd
N3012	53 (4) p66 P Ackroyd Tg	NXK997	53 (2) p20 P Ackroyd
N3013	53 (4) p66 P Ackroyd Tg	NXK998	53 (2) p20 P Ackroyd
N3869	53 (3) p54 G Pilkington	NXK999	53 (2) p20 P Ackroyd
N4303	53 (3) p54 G Pilkington	NXK1000	53 (2) p20 P Ackroyd
N4304	53 (3) p53 G Pilkington Bi	NXK1001	53 (2) p20 P Ackroyd
NXK29	53 (3) p47 P Ackroyd	NXK1002	53 (2) p20 P Ackroyd
NXK31	53 (3) p47 P Ackroyd	NXK1003	53 (2) p20 P Ackroyd
NXK35	53 (3) p47 P Ackroyd	NXK1004	53 (2) p20 P Ackroyd
NXK36	53 (3) p47 P Ackroyd	NXK1005	53 (2) p20 P Ackroyd
NXK65	53 (3) p47 P Ackroyd	NXK1006	53 (2) p20 P Ackroyd
NXK66	53 (3) p47 P Ackroyd	NXK1007	53 (2) p20 P Ackroyd
NXK67	53 (3) p47 P Ackroyd	NXK1008	53 (2) p20 P Ackroyd
NXK68	53 (3) p47 P Ackroyd	NXK1009	53 (2) p20 P Ackroyd
NXK71	53 (3) p47 P Ackroyd	NXK1010	53 (2) p20 P Ackroyd
NXK72	53 (3) p47 P Ackroyd	NXK1011	53 (2) p20 P Ackroyd
NXK73	53 (3) p47 P Ackroyd	NXK1012	53 (2) p20 P Ackroyd
NXK74	53 (3) p47 P Ackroyd	NXK1013	53 (2) p20 P Ackroyd
NXK75	53 (3) p47 P Ackroyd	NXK1014	53 (2) p20 P Ackroyd
NXK955	53 (2) p20 P Ackroyd	NXK1015	53 (2) p20 P Ackroyd
NXK956	53 (2) p20 P Ackroyd	NXK1016	53 (2) p20 P Ackroyd
NXK957 NXK958	53 (2) p20 P Ackroyd 53 (2) p20 P Ackroyd	NXK1017 NXK1018	53 (2) p20 P Ackroyd
NXK956	53 (2) p20 P Ackroyd 53 (2) p20 P Ackroyd	NXK1016 NXK1019	53 (2) p20 P Ackroyd 53 (2) p20 P Ackroyd
NXK960	53 (2) p20 P Ackroyd	NXK1019	53 (2) p20 P Ackroyd
NXK961	53 (2) p20 P Ackroyd	NXK1020	53 (2) p20 P Ackroyd
NXK962	53 (2) p20 P Ackroyd	NXK1021 NXK1022	53 (2) p20 P Ackroyd
NXK963	53 (2) p20 P Ackroyd	NXK1022 NXK1023	53 (2) p20 P Ackroyd
NXK964	53 (2) p20 P Ackroyd	10/11/10/20	53 (3) p47 P Ackroyd
NXK965	53 (2) p20 P Ackroyd	NXK1024	53 (2) p20 P Ackroyd
NXK966	53 (2) p20 P Ackroyd	NXK1025	53 (2) p20 P Ackroyd
NXK967	53 (2) p20 P Ackroyd	NXK1026	53 (2) p20 P Ackroyd
NXK968	53 (2) p20 P Ackroyd		53 (3) p47 P Ackroyd
NXK969	53 (2) p20 P Ackroyd	NXK1027	53 (2) p20 P Ackroyd
NXK970	53 (2) p20 P Ackroyd		53 (3) p47 P Ackroyd
NXK971	53 (2) p20 P Ackroyd	NXK1028	53 (2) p20 P Ackroyd
NXK972	53 (2) p20 P Ackroyd	NXK1029	53 (2) p20 P Ackroyd
NXK973	53 (2) p20 P Ackroyd	NXK1030	53 (2) p20 P Ackroyd
NXK974	53 (2) p20 P Ackroyd	NXK1031	53 (2) p20 P Ackroyd
NXK975	53 (2) p20 P Ackroyd	NXK1032	53 (2) p20 P Ackroyd
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NXK1033	53 (2) p20 P Ackroyd	NXK1091	53 (2) p20 P Ackroyd
NXK1034	53 (2) p20 P Ackroyd	NXK1092	53 (2) p20 P Ackroyd
NXK1035	53 (2) p20 P Ackroyd	NXK1093	53 (2) p20 P Ackroyd
NXK1036	53 (2) p20 P Ackroyd	NXK1094	53 (2) p20 P Ackroyd
		NXK1094 NXK1095	` ' '
NXK1037	53 (2) p20 P Ackroyd		53 (2) p20 P Ackroyd
NXK1038	53 (2) p20 P Ackroyd	NXK1096	53 (2) p20 P Ackroyd
NXK1039	53 (2) p20 P Ackroyd	NXK1097	53 (2) p20 P Ackroyd
NXK1040	53 (2) p20 P Ackroyd	NXK1098	53 (2) p20 P Ackroyd
NXK1041	53 (2) p20 P Ackroyd	NXK1099	53 (2) p20 P Ackroyd
NXK1042	53 (2) p20 P Ackroyd	NXK1100	53 (2) p20 P Ackroyd
NXK1043	53 (2) p20 P Ackroyd	NXK1101	53 (2) p20 P Ackroyd
NXK1044	53 (2) p20 P Ackroyd	NXK1102	53 (2) p20 P Ackroyd
NXK1045	53 (2) p20 P Ackroyd	NXK1103	53 (2) p20 P Ackroyd
NXK1046	53 (2) p20 P Ackroyd	NXK1104	53 (2) p20 P Ackroyd
NXK1047	53 (2) p20 P Ackroyd	NXK1105	53 (2) p20 P Ackroyd
NXK1048	53 (2) p20 P Ackroyd	NXK1106	53 (2) p20 P Ackroyd
NXK1049	53 (2) p20 P Ackroyd	NXK1107	53 (2) p20 P Ackroyd
NXK1050	53 (2) p20 P Ackroyd	147(171107	53 (3) p47 P Ackroyd
NXK1050	` ' '	NXK1108	53 (2) p20 P Ackroyd
	53 (2) p20 P Ackroyd	INAKTIOO	. , .
NXK1052	53 (2) p20 P Ackroyd	NIVIZAAOO	53 (3) p47 P Ackroyd
NXK1053	53 (2) p20 P Ackroyd	NXK1109	53 (2) p20 P Ackroyd
NXK1054	53 (2) p20 P Ackroyd	NXK1110	53 (2) p20 P Ackroyd
NXK1055	53 (2) p20 P Ackroyd		53 (3) p47 P Ackroyd
NXK1056	53 (2) p20 P Ackroyd	NXK1111	53 (2) p20 P Ackroyd
NXK1057	53 (2) p20 P Ackroyd	NXK1112	53 (2) p20 P Ackroyd
NXK1058	53 (2) p20 P Ackroyd	NXK1113	53 (2) p20 P Ackroyd
NXK1059	53 (2) p20 P Ackroyd	NXK1114	53 (2) p20 P Ackroyd
NXK1060	53 (2) p20 P Ackroyd		53 (3) p47 P Ackroyd
NXK1061	53 (2) p20 P Ackroyd	NXK1115	53 (2) p20 P Ackroyd
NXK1062	53 (2) p20 P Ackroyd		53 (3) p47 P Ackroyd
NXK1063	53 (2) p20 P Ackroyd	NXK1116	53 (2) p20 P Ackroyd
NXK1064	53 (2) p20 P Ackroyd		53 (3) p47 P Ackroyd
NXK1065	53 (2) p20 P Ackroyd	NXK1117	53 (2) p20 P Ackroyd
NXK1066	53 (2) p20 P Ackroyd	NXK1118	53 (2) p20 P Ackroyd
NXK1067	53 (2) p20 P Ackroyd	NXK1119	53 (2) p20 P Ackroyd
NXK1068	53 (2) p20 P Ackroyd	NXK1119	53 (2) p20 P Ackroyd
NXK1069	53 (2) p20 P Ackroyd	NXK1121	53 (2) p20 P Ackroyd
NXK1009	53 (2) p20 P Ackroyd	NXK1121	53 (2) p20 P Ackroyd
	` ' '	NXK1122 NXK1123	. , .
NXK1071	53 (2) p20 P Ackroyd		53 (2) p20 P Ackroyd
NXK1072	53 (2) p20 P Ackroyd	NXK1124	53 (2) p20 P Ackroyd
NXK1073	53 (2) p20 P Ackroyd	NXK1125	53 (2) p20 P Ackroyd
	53 (3) p47 P Ackroyd H	NXK1126	53 (2) p20 P Ackroyd
NXK1074	53 (2) p20 P Ackroyd	NXK1127	53 (2) p20 P Ackroyd
NXK1075	53 (2) p20 P Ackroyd	NXK1128	53 (2) p20 P Ackroyd
	53 (3) p47 P Ackroyd	NXK1129	53 (2) p20 P Ackroyd
NXK1076	53 (2) p20 P Ackroyd	NXK1130	53 (2) p20 P Ackroyd
NXK1077	53 (2) p20 P Ackroyd	NXK1131	53 (2) p20 P Ackroyd
NXK1078	53 (2) p20 P Ackroyd	NXK1132	53 (2) p20 P Ackroyd
NXK1079	53 (2) p20 P Ackroyd	NXK1133	53 (2) p20 P Ackroyd
NXK1080	53 (2) p20 P Ackroyd	NXK1134	53 (2) p20 P Ackroyd
NXK1081	53 (2) p20 P Ackroyd	NXK1135	53 (2) p20 P Ackroyd
NXK1082	53 (2) p20 P Ackroyd	NXK1136	53 (2) p20 P Ackroyd
NXK1083	53 (2) p20 P Ackroyd	NXK1137	53 (2) p20 P Ackroyd
NXK1084	53 (2) p20 P Ackroyd	NXK1138	53 (2) p20 P Ackroyd
NXK1085	53 (2) p20 P Ackroyd	NXK1139	53 (2) p20 P Ackroyd
NXK1085	53 (2) p20 P Ackroyd	NXK1140	53 (2) p20 P Ackroyd
NXK1087	53 (2) p20 P Ackroyd	NXK1140	53 (2) p20 P Ackroyd
NXK1087 NXK1088	` ' '	NXK1141 NXK1142	. , .
	53 (2) p20 P Ackroyd		53 (2) p20 P Ackroyd
NXK1089	53 (2) p20 P Ackroyd	NXK1143	53 (2) p20 P Ackroyd
NXK1090	53 (2) p20 P Ackroyd	NXK1144	53 (2) p20 P Ackroyd

NXK1145	53 (2) p20 P Ackroyd	NXK1149	53 (2) p20 P Ackroyd
NXK1146	53 (2) p20 P Ackroyd	NXK1150	
NXK1147	53 (2) p20 P Ackroyd	-1753	53 (4) p66 P Ackroyd
NXK1148	53 (2) p20 P Ackroyd	QWRH90	53 (3) p44 P Ackroyd

TORRENS

No trip reports

UPPER SOUTH EAST

U8	53 (1) p9 53 (4) p66	M Sefton M Sefton	E D, E, P
U15	53 (4) p66 53 (1) p8 53 (4) p66	M Setton M Setton	E W
U34 U47	53 (1) p9 53 (1) p8	M Sefton M Sefton	
U217	53 (3) p55	P Ashenden	11, 0
U218 U230	53 (3) p55 53 (4) p66	P Ashenden M Sefton	W
		YORKE PE	<u>NINSULA</u>
Y1	53 (2) p24 53 (3) p55	N Skinner G Pilkington	Е
	53 (4) p69	G McLucas	Р
	53 (4) p71		E
Y2	53 (4) p70	G McLucas	Н

INTERSTATE & OVERSEAS

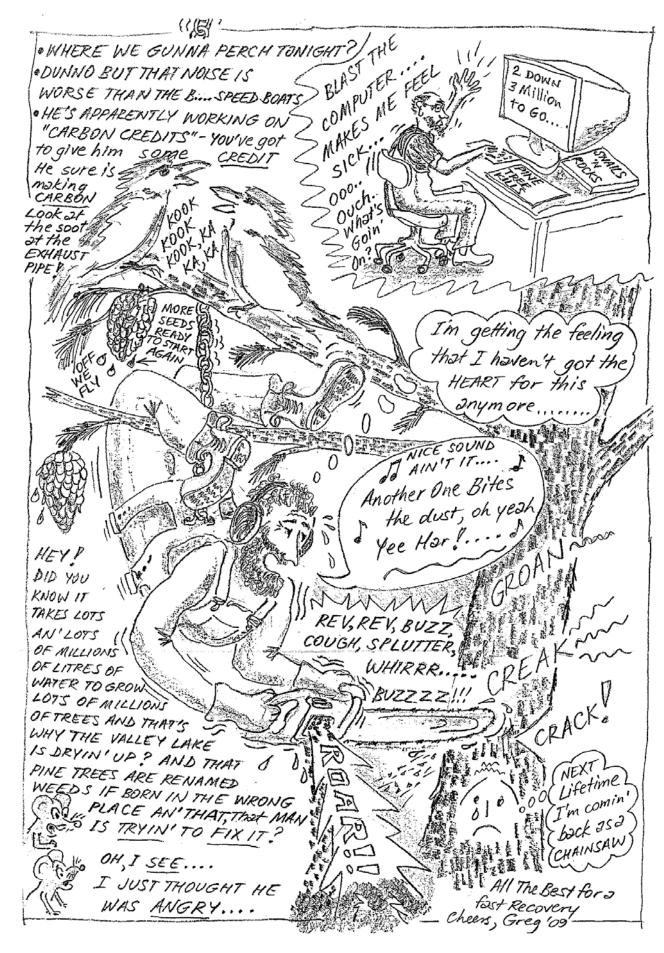
Bullita	53 (3) p55	M Sefton	
Nettlebed (NZ)	53 (2) p23	R Harris	
Pahara Caves	53 (3) p55	N Skinner	
Pearse Resurgence	53 (2) p21	R Harris	Di
_	53 (2) p22,23	R Harris	Μ

TECHNICAL AND OTHER ARTICLES

Technical and Other Articles list the Title of the article, Newsletter reference and the Author

Answer (Article Vol 52 No 3) Annual General Meeting Australia's Kanawinka Geopark Book Review – "Caves" Caving word find CEGSA Projects	53 (2) p27 53 (1) p4 53 (4) p74 53 (1) p11 53 (4) p78 53 (4) p63	A Jackson I Lewis M Choi
Donation to CEGSA	53 (1) p11	G Pilkington
Excerpts from early newsletters	53 (3) p57	
Freshette (Feminine Urinary Director)	\	J McLucas
Grant Gartrell Grotto	53 (2) p30	P Horne
Index Volume 52	53 (2) p31	
KIDSA Inconsistencies	53 (2) p30	G Pilkington
Nullarbor – Xmas 1954	53 (3) p40	P Wright
Obituary (P Clarke)	53 (2) p27	K Mott
Photos wanted	53 (1) p12	M Choi
Putting CEGSA's assets to good use	53 (3) p58	M Sefton
To be or not to be (project plan)	53 (1) p12	G Pilkington

Kevin Mott.



Get well card to Fred Aslin during his hospital stay after a heart attack early this year.

CALENDAR OF EVENTS

Date	Type of Event	Description	Contact
25/02/09	General Meeting	Royal Society Room, SA Museum, Adel. Kanawinka Geopark Part 1	lan Lewis
28/02/09	Working Bee	Library and records	Graham Pilkington
03/03/09	Caving	Corra Lynn Cave (school trip)	Graham Pilkington
07-09/ 03/09	Adelaide Cup WE		
11/03/09	Committee Meeting	ТВА	Mark Sefton
25/03/09	General Meeting	Royal Society Room, SA Museum, Adel. Caving Video	Mark Sefton
28/03/09	Working Bee	Library and records	Graham Pilkington
28/03/09	Fun Caving	Corra Lynn Cave	Paul Harper
08/04/09	Committee Meeting	ТВА	Mark Sefton
10-13/ 04/09	Fun Caving and Survey	South East of SA.	Marie Choi
10-26/ 04/09	Survey	Old Homestead Cave, Nullarbor	Graham Pilkington
17/04- 08/05/09	Exploration	Nullarbor	Peter Ackroyd
19/04/09	Fun Caving	Punyelroo and Gloop Caves	Mark Sefton/ lan Lewis
22/04/09	General Meeting	Royal Society Room, SA Museum, Adel. Kanawinka Geopark part 2	lan Lewis
02/05/09	Fun Caving	Corra Lynn Cave	Paul Harper
09-10/ 05/09	Fun Caving	Naracoorte	Mark Sefton/ lan Lewis
13/05/09	Committee Meeting	TBA	Mark Sefton
	CEGSA NEWS	Articles due	Athol Jackson
27/05/09	General Meeting	Royal Society Room, SA Museum, Adel. Underwater Caves and Fossils	Diver and Buddy.
30/05/09	Working Bee	Library and Records	Graham Pilkington
	Fun Caving	Corra Lynn	Paul Harper
???????	Caving	Kangaroo Island sometime this year	Grant Gartrell
	Training	Ad Hoc training	Tim Payne
	Caving	Ongoing Vic Fossil survey	Gary Woodcock
	Caving	Continuing Fleurieu Peninsula Exploration	Grant Gartrell

It is desirable that caving trips involving club members should, where possible, be registered as CEGSA Trips. To do this, the nature and timing of the trip must be nominated to the Trip Liaison Officer and/or minuted at a General Meeting of Members. The member registering such a trip must be an accredited CEGSA Trip Coordinator and must agree to act in this capacity for the trip. There must also be an accredited trip leader with the appropriate skill endorsement to take a dependent party caving.

Also, please ensure that a report of the trip is submitted in a timely manner.