September 2006



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Alice Springs Field Naturalists Club 2006

Meetings

7.30 pm on the second Wednesday of the month. **Venue**: Olive Pink Botanic Garden, Tuncks Road

13th Sept. Brenda King, who is visiting from the US will speak on the Sonoran Desert, Arizona. This should be an excellent presentation on a climatically similar, but botanically very different desert to ours.

11th Oct. Michael Green on a geological subject.

Trips / Activities

Sat 9 and Sun 10 Sept. Old Hamilton Downs. Leaders Kaye Percy and Rhondda Tomlinson. Phone: 8953 1280. Meet at Sargeant Street turnoff on Stuart Highway at 0800hours.

Sat 16 Sept. ABC Garden Fair. Helpers needed at the stall between 0830 and 1200 hours. Members encouraged to bring something **small** for "Show and Tell".

Sun 17 Sept. Bush Foods Garden at Alice Springs Desert Park. Leader Barb Gilfedder. Phone: 8955 5452. Meet at 0830 just inside the park gates and around the first corner.

Sat 30 Sep and Sun 1 Oct. Palm Valley. Leader Bob Read.Phone: 8952 1935

Sat 14 Oct. Geology excursion. Details to be advised.

Fri 3 Nov. BBQ and Frog watch at Simpson's Gap

Sat 18 Nov . Bird Watch Alice Springs Water Treatment Ponds.

Sat 25 Nov. Visit to Ian Archibald's workshop and museum.

Sun 10th Dec. end of year Club Christmas party at Olive Pink Botanic Garden. Walk around the garden at 0730 folllowed by breakfast at 0900.

New Members

Welcome to new members Ian Fox and Trish Hammond, Eric Tan, Graeme and Jackie Shaughnessy, Fred Richardson and Meg Mooney.

Notes from Newsletter Editor.

Some of you may have missed the typos in August's newsletter! I did.

For those who didn't, here they are:-

Guest Speaker report was on Lake Lewis, not Lake Nash which seemed to want to get its name in print on more than one occasion. Annual rainfall should have read 300mm, not 50mm.

Also:-

Could all the great writers please ensure that **scientific names** are correct or leave them out. Common names are OK, really. This will help to ensure that the newsletter can be got out on time and in the right format!

Thanks for you help.

2006 President's Report

Because my hard drive crashed early this year I cannot simply change last year's report as I have been able to do for the last few years.

The club continues in a healthy state with a good membership, a good program of excursions and a full program of speakers.

With our current membership our finances are sound. Annual income from membership fees has passed \$1 000 for the first time ever. A few years ago the committee anticipated that we would have to progressively increase our fees to cover the costs of insurance. With the increased membership and tight control on other costs this will not be necessary.

The newsletter continues to be full and larger than ever before. Many thanks to Liz for stepping into the gap left by Emily's departure.

The increased membership brings new challenges.

- I find it increasingly difficult to remember all names.
- More seriously, as is the case in most clubs, a small group tend to organise most things.
- To a large extent this is inevitable, but there is a risk that the committee may lose touch with a section of the membership.

This may be why the increased membership has not been reflected by attendance at our excursions. The committee have discussed ways of trying to find what our membership wants. Meanwhile if our current format does not suit you please let me know or any of the committee know and we will see what we can do to accommodate you.

Finally I would like to thank the committee and the editor who have made my job so easy this year, and all those who have supported the club in any way, even if only coming to our events.

Bob Read

Trip Reports

From the west – north-east of Alice Springs July 1st 2006

By Beth Hansen

Connie Spencer led Rosalie Breen, Bob Read, Kaye Percy, Rhondda Tomlinson Arthur ... & Beth Hansen from near the Scouts Hall (Larapinta Dr, near Van Senden Ave corner), up past the water tank to meet up with Barbara Gilfedder after the first couple of hills on the NW edge of town on Saturday July 1st. We stopped to admire some brown honeyeaters & a medium sized bloodwood tree in this area.

In the early morning, the smokey haze from the previous night's fires was still hanging over Alice Springs. However, on the top of the hills, the views extended out of more & more rolling hills to the north, west & east & to the MacDonnell Range to the south. Barbara, a regular walker in this area, pointed out where resurrection ferns grow in some rocky patches. We checked out some Pied Butcherbirds, Splendid Fairywrens, Brown Honeyeaters, Singing Honeyeaters, some Magpie Larks & Melaleuca glomerata (inland tea tree).

A marked trail continued north-east around & down the hills to meet the railway line at the end of Smith St, then we followed the dirt road that runs along the eastern side of the line. In this area were a Crested Bellbird, Galahs an Australian Ringneck checking out its hollow in a tree, Yellow-throated Miners, Spiny-cheeked Honeyeaters & a couple of Willie Wagtails. A Whistling Kite was flying in the mid-distance. Several flocks (or was it the same one appearing again?) of White-backed Swallows were in this area too & a Richards Pipit stopped briefly on the railway track. Plants noted were flowering sennas, *Eremophila longifolia, Melaleuca bracteata* & a bush tomato in fruit.

At the railway cutting 2.5kms north from the station, the road went steeply up hill & we stopped at the top for chips & nibbles, cakes & chips, balloons, bubble-blowing & party hats to mark Connie's 60th birthday. Connie demonstrated her fitness by testing the gift of a skipping rope from Rosalie. We set off again with party hats & balloons that went off at irregular intervals as we alternated Follow the Leader with Hide & Don't Seek (for private bush matters).



Connie's birthday party

Photo: Beth Hansen

Our track headed east, up over the top of the hill, with views back to Nutcracker Hill past pepper cress & some tiny pink *Erodium* in flower & then joined part of the Larapinta Trail winding down to where the Charles River bridge crosses the Stuart Highway. There we stopped to admire the graffiti & prepared for the last 5kms walk.

Soon after, there was an unresolved debate about the name for a large tree just before we crossed the very dry Charles River. My balloon – the last to go – provided some light relief at the lunch stop, bursting as I was about to lay back on it! However, the party atmosphere was easing off over the final 2-3 kms stretch to reach the Telegraph Station just before 2pm.

Other birds sighted on the walk were Torresian Crows, Black-faced Woodswallows, Yellow-rumped Thornbills, a distant Wedge-tailed Eagle, some Weebills, Rufous Whistlers & Grey-crowned Babblers.

Alcoota Fossil Dig 29 July 2006 (Some stayed for the next day too) by Gavan Breen

The headquarters is a corrugated iron shed, divided into a three-walled space open to the north and occupying the eastern half, and two enclosed rooms in the western half. The open area is the kitchen and working area. One of the rooms is a first-aid room; I forget (or never saw) what the other is. There are some little tents here and there in the mid-distance.

A few metres to the north is a hole several metres across and a metre or more deep where one Jarred squats or crouches with a "pick" like a fine knitting needle pointed at both ends but with a right-angle bend near one end, and a brush (dustpan-type). He is alongside what looks like a shapeless mass of rock or hard soil outcropping from the floor of the hole. This shapeless mass is actually a mess of fossilised bones from a variety of creatures that lived here about six million years ago. Jarred's job is to sit there on the ground with his tools and, slowly and patiently, dig away the soil cementing the fossils together, brushing the loose dirt away so he can see what could be attacked with the pick and what shouldn't, and

eventually separating the bones, one at a time. Whenever a fossil surface is exposed he coats it with an adhesive liquid that permeates it and stops it disintegrating on exposure to the modern world. He is not chained, so apparently he is allowed out sometimes.

Here and there in the hole lie groups of fossils that have recently been separated < breastbones, as big as dinner plates, from giant flightless birds, leg-bones of giant kangaroos, crocodile teeth, lots of little bones from smaller creatures. These are eventually to be taken up to the shelter to be identified fully and catalogued, and later taken to Alice Springs for further study and perhaps exhibition.

The fossils are along the banks and in the valley of a river that used to run through the area, so there must be large numbers still to be found. We are told that the local crocodiles (or some of them, at least) lived on land, not in the water. The evidence for this is that their eyes are in the side of their head like most animals, and not perched up on top like in modern crocs.

After inspecting and approving the activity in the hole, we walk over to a little round hill called Pancake Hill, where Dirk Megirian tells us about the excavation that has taken place there, on two opposite sides of the hill.

Larapinta Trail No 6.

Hugh Gorge to Ellery Big Hole
August 6 & 7 2006

Report from Rosalie Breen

We did it! After some convoluted organisation to provide transport to and from the walk, we set off in three cars on Saturday afternoon for Hugh Gorge It takes nearly two hours to drive in from the main road on the very four-wheel drive track, but a beautiful camp site, for a tea around the fire and good companionship shared.

Next morning the walkers Bob, Connie, Kaye, Emma, Gavan and Rosalie were up ready to leave just before nine. Drivers Colleen and Meg had a wonderful day exploring Hugh Gorge upstream, while Stan left early.

It was a pleasant walk in the morning sun, up and down low gneiss ridges with the loud calls of the brown honeyeaters accompanying us. From Hugh View and points along the trail we looked back to Hugh Gorge entrance and to the rugged hills, identifying Brinkley Bluff, Paisley Bluff and the hill above Fringe Lily Gorge. Towards the north, views of tantalizing hills with the intervening valley clothed in dense green mulga (no fires there). Crossing rivers the sand reflected the warmth of the sun. One river in particular was a garden of native grasses on the bank.. On the track we met a lone walker who was walking the entire trail. He regularly does a big walk, his last one being the Bibbulman Track in WA. He told us there was a picnic table a bit further on. I didn't believe him but at a beautiful flat area, Ghost Gum Flat there it was – a perfect campsite, overlooked by the ghost gum, which had three great burls on its trunk. On the

rocky hills not a great showing of flowers but plenty of variety. The blue *Eremophila freelingii*, an unknown tiny vellow daisy, ferns, Rostellularia, Sida, Hybanthus flower), spade aurantiacus (orange Euphorbia, Brachvcome (blue daisy), Ptilotus helipteroides, Zvgophvllum (twin leaf) both vellow and white flowered. (Species names aren't always given because not known accurately). The butterflies were enjoying the day too. We saw Meadow Argus, Lesser Wanderer, Chequered Swallowtail, Wattle Blue and the Small Grass Yellow. We didn't seem to have an official lunch stop, because hungry walkers had small lunches at various rest stops, and the forward guard just kept walking.

The new campsite provided on the trail was a few hundred metres down the creek of Rocky Gully, with a tank for water and some clear and flat areas for sleeping. On the trail now, fires are not allowed except at the trailheads, so we contented ourselves with huddling around the tiny metho cooking stoves. When Rosalie had finished cooking we moved to Bob's. It was a couple of days to full moon and we had plenty of light and it wasn't really that cold. Early to bed so early to rise for a start next morning at quarter to eight.

First was a climb back up a ridge to the top of the same line of rolling hills, a little lower, less undulating and less treed than yesterday, but again great views of the tortured peaks of the older Chewings Range, beautiful in the morning light and shadows. A Brown Falcon flew above, his under-wings sparkling white in the low sun. We looked towards our goal, Ellery Big Hole, where it cut through the range and noted the saddle that was our route. Here and most of yesterday's walk was through areas burnt in the 2002 bushfires, now regenerating showing the resilience of the bush. Also a little sad was the thick buffel grass growing on the edges of the sandy river crossings. Discounting those points it was a pretty walk, walking through mulga sometimes, through witchetty country and always many flowers among the rocks, looking down on small river gorges with their big river red gums, red rocks and vellow sand. A new vista every time. A friend of Connie's had reported the track as rocky and rocky with a little bit of sand now and then.

Brown Songlarks were about and a fluffy Red-backed Kingfisher in a tree was peeping for breakfast. A special bird, fairly rare, was the Slaty-backed Thornbill.

Eventually we turned south towards the saddle, the rocks becoming redder in colour and more flowers. We had to wait for lunch till we had climbed up a steep little "goat track" onto the saddle to cross the Heavitree Range, more great views and some interesting rocks, low cliffs and boulders of a red conglomerate rock which would have been formed from river deposits from the Chewings Range when the level of the land was much higher. I thought it might have been the tillite mentioned in the guide. Bob found that, red with smaller particles, deposited when a melting glacier ran into a sea here and dropped its debris, later to be compressed to form the present day rock. (A walk to this saddle from Ellery Big hole would be an interesting day walk).

Down off the saddle we passed through a lush mulga grove, which had been protected from fire in its rocky position. And then we were onto the low limestone hills. *Eucalyptus eucentrica* or Red Mallee was dominant along with spinifex, and little Weebills were hiding in and out of the branches. A small grey bushy shrub was *Anemocarpa saxatilis* (used to be *Helipterum*), in flower, a yellow daisy. At the end was one last hill, worth the climb to see the waters of Ellery Big Hole, glinting in the sun among the rivergums.

We were very grateful to the drivers Colleen, Meg and Stan who made the walk possible, especially Meg whose participation meant we didn't have to drive back in to Hugh Gorge on Monday, and to our leader Bob who was patient with us slower walkers.

Valley walk Stegar Road to Emily Gap

19 August2006

by Barb Gilfedder

Twelve keen naturalists met at the date farm, and after rearranging cars to either the beginning or end of the walk we met again at the gate at the end of Stegar Road. It was good to see a couple of visitors as well as new members, Jackie and Graeme among the group.

We followed leader Rosalie Breen, North towards the hills

Bob found some pre-loved snail shells beneath one of the *Eremophila freelingii*. He told us that the live snails only come out to feed after a good rain, otherwise they spend a secluded existence sealed in their shells below ground. What a strange life from a human point of view! There are reported to be at least thirty different snail species living in the MacDonnell Ranges.

Connie found a spider hole, but the perfectly fitting trapdoor had moved and was several centimetres from the entrance. We guessed the spider had moved on.

Climbing a small hill, we admired the view over the valley. Along with the *Eremophila freelingii*, there was the lovely mallee, *Eucalyptus eucentrica* on the limestone soil. A few Dead Finish, *Acacia tetragonophylla* were flowering, but many were content just to look green and healthy. We decided they must take it in turns to flower. We stopped for a break beneath a beautifully flowering Harlequin Mistletoe *Lysiana exocarpi* with its bright green and red blossoms.

Down the hill and into the valley that runs between ranges we found a stand of the Harlequin Emu Bush, *Eremophila duttonii*, with just a few of its bright green and red flowers out and bright green sticky leaves.

A large quarry dominates the hills to the South of where we were walking although is not obviously visible from the Ross Highway. Large rocks stood like soldiers on duty along the top of the lesser range. Some of the keener birders followed bird noises and came up with several Rainbow Bee-eaters, Crimson Chats and Yellow-rumped Thornbills. A few rocks were parked along where we were walking and provided convenient seats while bird-watchers caught up and everyone had some morning tea. A stand of Tall Yellowtop, *Senecio magnificus* was flowering profusely in the distance and a large dragonfly

hovered overhead with a Wedge-tailed Eagle swooping much higher.

We moved on, crossing a creek line several times. There was evidence that water had been flowing over ground in many places and bright green herbage was coming up in the shade of shrubs. Young Ironwoods *Acacia estrophiolata*, Mulgas *Acacia aneura* and other plants were looking healthy after the rains a few weeks ago. Gradually the valley became narrower and it was good being between rock walls and away from any sound of vehicles and civilisation.

A Red-browed Pardalote drew our attention with his constant 5 note call. He was busy among the leaves of a large River Gum. A Pied Butcherbird was calling from a fig tree at the base of the range and we soon found another, a juvenile with the paler dark bib, who allowed us to approach quite close. In the dry river bed at Emily Gap, pretty daisies, *Ixiochlamys cuneifolia* were flowering and producing their spherical fluffy seed heads.

A lovely walk with lovely weather and lots of birds, plants and good company.

Thank you Rosalie, for leading.

Bird list

Crested Pigeon Black-faced Woodswallow Grey-crowned Babbler Southern Whiteface Mistletoe Bird Grey-headed Honeyeater Variegated Fairy-wren Grev Shrike-thrush Hooded Robin Splendid Fairy-wren Wedge-tailed Eagle White-backed Swallow Red-capped Robin Rainbow Bee-eater Crimson Chat Willy Wagtail Yellow-rumped Thornbill White-browed Babbler Western Gerygone Pied Butcherbird Red-browed Pardalote Spiny-cheeked Honeyeater Torresian Crow Weebill Magpie-lark Crested Bellbird Black-face Cuckoo-shrike Port Lincoln Parrot

ANN Get-together 2006 (cont.) HIGH COUNTRY IN THE ALPINE SPRING

By Rhondda Tomlinson

Day 15: We were very well schooled at being up and on the go. This time it was the Rainbow Lake track. Rainbow Lake is a man made dam built to supply water to the Kosciuszko Hotel which was completed in 1909 and burnt down in 1951. The remaining building is now the Sponar's Chalet and was originally the staff quarters. I was so thrilled to see a pair of Gang Gang Cockatoos. The male of course displayed his beautiful bright orange/red head while the all grey female survey all these strange people staring up at them.

We had lunch at Sawpit Creek and afternoon tea at the Thredbo Picnic area.

The evening talk was about the trapping of animals under the snow. The low vegetation causes the snow to make foraging pockets for the small animals to feed. The loss of vegetation has caused some mammals to become extinct due to the snow lying flat on the ground. Some species of frogs lay their eggs in damp moss and not in the water where the eggs can lay dormant for two seasons and hatch when water rises into the bog and then they get carried into the streams.

Day 16: This day's adventure was past the Blue Cow parking area and in two big tour buses down a rather narrow dirt road to where the park rangers were waiting for us. They had trapped a common bush rat and a female Dusky Antechinus. The Antechinus weighed about 20 grams but would still put on more weight till autumn. All the males die about two weeks after mating



Antechinus

Photo: Rhondda Tomlinson

We visited the Guthega Dam and the power station generates electricity from the waters diverted through the Guthega pressure tunnel. Afterwards the water is discharged into the Snowy River. Power generated is transferred to the Murray switching station for distribution of electricity to NSW and Victoria.

The trans mountain tunnel system diverts waters from Lakes Eucumbene and Jindabyne to generate electricity at power stations in the Tumut and Murray developments. The scheme also provides water for irrigation.

The interesting sightings of the day were a large grasshopper with an abdomen with blue and red horizontal stripes. A big green caterpillar about 10cm long with a thick body and well camouflaged on the green leafy tree. There was also a small multi coloured cloak beetle which lays it's lava in dung.

The pumping station surge tank, finally we got to stop and find out about it. For several days we passed this big pipe sticking out of the ground and no one offered an explanation.



"Big Pipe"

Photo: Rhondda Tomlinson

The tank is 28metres high and acts as a pressure valve when the pumping stations are pumping water at high flow and at other times when water is pumped in reverse direction to be stored. It has an underground spillway which releases water via the dissipater chute at Jindabyne pumping station.

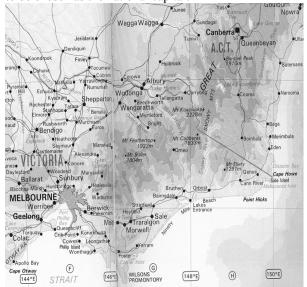
7.30pm: We were told about the up coming next ANN Get-together which will be in Darwin in 2 years time. The date is yet to be set but a totally different experience awaits as the contrast between the High Country and the Tropics.

Day 17: This was a tripping around day where we were given time to do some shopping at Jindabyne and then we headed towards Cooma and a stop at the Mt. Gladston Lookout where we overlooked the Monaro Plain from an elevation of 3, 535 feet. We arrived at Cooma in time to have our lunch in the Central Park. The park has the statue of the Man from Snowy River and a avenue of all the flags from the countries of the workers on the Snowy Mountain Scheme. After lunch we were free to wonder. I ended up at the old Cooma Gaol. This was an interesting historical place situated next to the new goal and the guides were some of the trusted in mates doing like a work experience in showing visitors around and talking about the history, I suspect from first hand experience. The ice cream parlor was a rather popular place before we boarded the bus for a heritage drive around the town.

7.30pm was our farewell dinner and time to gather addresses etc of new friends.

Day 18: Well this is it we are heading home but our hosts still had more to tell us about the gold discoveries at

Bombala in 1855 and how it was considered at one time to be chosen as the national capital.



"Snowy Mountains"

Photo: Rhondda Tomlinson

About 10am we crossed into Victoria and traveled through the heavily timbered Coopra Cambra National Park. We passed through the Lind National which is the southern most area for the cabbage tree palms. Midday we were at Lakes Entrance where oil rigs can be seen off the coast on a clear day and it is also the mooring for an extensive fishing fleet. We crossed the Tambo, Nicholson and Mitchell Rivers and onto Sale for a late lunch. Traralgon is the largest city in Gippsland and this is where brown coal is mined to fuel coal powered stations. We arrived at Melbourne airport at 6.00pm and a mad scramble to unload luggage and people dispersed in all directions. I had to make a dash for a plane to Hobart for family reasons but the sunset was a perfect ending for a brilliant holiday.

New Central Australian Book.

By Rosalie Breen

Central Australian Grass Guide by locals Coral Allan and Douglas Wilson. This is a small collection of 43 grasses found around Alice Springs, produced for the pastoralist but great for identifications of the common varieties. Each grass has a page with a photo of the whole plant and one of the flower head, with brief written description and habitat. Also has glossary and diagrams of plant terminology, useful for the amateur. Can be obtained at Central Land Management Association office in Leichhardt Tce for \$25.00. (50 cents a plant!)

Announcement

2006 NT Threatened Species Art and Photography Exhibition

Date: Friday 15th Sept 2006 5.30pm Venue: Alice Springs Public Library

Cost: Free. Some drinks and nibbles provided

For more details phone Linda McGuire. 89521541

Copy Deadline for articles for October Newsletter-Friday 29th September 2006

Photo copying

Courtesy

Hooker Real Estate

ALICE SPRINGS FIELD NATURALISTS CLUB INC

Minutes of General M meeting 9th August 2006 Held at Olive Pink Botanic Gardens

Open & Welcome: 0753

Apologies: Sue Fraser, Connie Spencer

Minutes of the previous meeting: moved to accept by Emma Bliss

Seconded by: Jane Danne

Motion passed

Business Arising: None

Correspondence In: WANC The Naturalist News – Aug 2006

Correspondence Out: Bill Low Thank you

Treasurer's Report: No changes to the accounts this month.

Opening balance end June06: \$1775.15 Closing balance end July 06 \$1775.15

General Business: None

Garden Fair Helpers needed for the ABC Garden Fair – Sat 16th Sept. Karen, Rosalie, Rhonda Tomlinson volunteered. More helpers needed between 0830 and 1200.

Outings

53			
Sat 19 August	Easy morning walk from Ragonesi Rd to Emily Gap below the range. Meet at the Date Farm car park for 8am start. Contact Rosalie Breen on 8952 3409.		
Sun 27 Aug	Day trip to Chambers Pillar. 4WD required. Meet at Pitchie Ritchie gates at 0730. Leader: Jennie Purdie.		
Sat 2 Sep	Native Gap. Leader: Bob Read. Meet 0730 at 64 Lackman Terrace		
Sat 9 & Sun 10 Sep	Old Hamilton Downs. Leaders: Kaye Percy and Rhondda Tomlinson. Meet at the Sargent St turn off at 0800 AM.		
Sat 16 Sep	ABC Garden Fair – Helpers needed to man the stall (see notes above)		
Sun 17 Sep	Bush Foods Garden at Alice Springs Desert Park. Meet at 0830 just inside the Park gates and round the first corner. Leader: Barb Gilfedder		
Sat 30 Sep & Sun 1 Oct	Palm Valley. Leader: Bob Read.		
Sat 14 Oct	Sewage Ponds		

Other business: Liz Carpenter notified the meeting of a trip to Newhaven bird sanctuary that she and Eric Tan (new member) are organising, departing Alice on Tuesday 6th September and invites any interested people to organise another vehicle and join them.

Activity: Karen conducted a quick brain-storm, dividing the 16 members present into 3 groups, to gather ideas and preferences for outings. Lots of ideas gathered.

Supper for September – Bob Read. Note taker for Sept – Helen Morgan.

Sightings: none recorded.

Meeting closed at about 0845 for supper followed by "Show and Tell" of members' rock, plant and insect samples, and a presentation from Eric Tan of some of his bird photographs.

These photos can be found on his website: www.mountainsbeyond.net

Field trip and activity suggestions from members (AGM meeting)

 4WD Trips - 1 Day N'dhala Gorge Owen Springs Roma Gorge Rainbow Valley Anna's reservoir Lake Lewis Gosse Bluff 	 4WD Trips - 2 Day Boggy Hole Ruby Gorge Mordor Pound Winnecke Gold Fields
 2WD Trips – 1 Day Arltunga Serpentine Gorge Plenty Hwy Alcoota Ross River Ewaninga Trephina Henbury Craters Lake Lewis 	• Hamilton Downs
 Walks - 1 Day Wigleys to ASTS Glen Helen to Ormiston Ormiston Pound Walk Larapinta Trail – sections Woodland walk Jay Creek to Stanley Chasm 	 Walks – ½ Day Cassia Hill Walk Service road to Wallaby Gap ASTS – various Kurrajong Hills, Eastside – various Stephens Road (end)
Special Interest / joint club etc activities • Bat caves • Rifle Range lagoon • Malony Creek – fossil	

Alice Springs Field Naturalists Club Inc.
PO Box 8663, Alice Springs, NT 0871
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