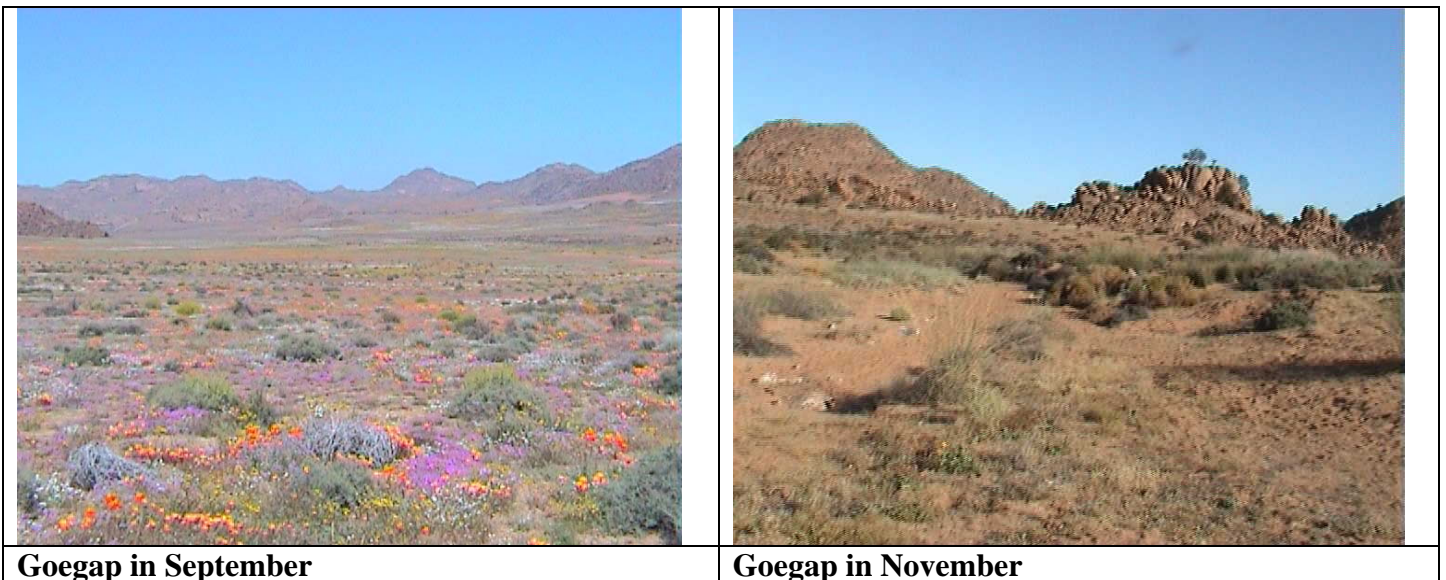


General Information about the work at the Succulent Karoo Research Station in Goegap Nature Reserve

The SKRS (Succulent Karoo Research Station) is a registered non-profit organization with the aim to conduct fundamental biological research in the Succulent Karoo in the field of organismic biology, especially ecology, evolution, animal behavior and eco-physiology.

Postal address: To receive mail, use following address
Succulent Karoo Research Station, PO Box 541, Springbok, 8240, South Africa.
Email is checked ones a week: succulent.karoo.research.station@kabelbw.de.
There is no telephone.

Goegap Nature Reserve: Goegap is close to Springbok, the capital of Namaqualand. Goegap is a semi desert. Main attractions are the wildflowers in spring (July-October; depending on rainfall in winter). During the tourist season (spring) up to 500 tourists might visit the reserve each day. Very few tourists visit during other times.



Springbok: Springbok is a small town with about 15 000 inhabitants, 20km away from the Research Station. As Springbok is the capital of Namaqualand, it has two well stocked supermarkets, a good pharmacy and many other shops with everything you might need. Once a week we make a shopping trip to Springbok.

Costs: Unfortunately no funding is available for field assistants, who have to cover all costs by themselves. Students have to arrange their own transport to the field site (for details how to do this see below). A monthly fee of approx R 1500 for field assistants (approx 100 Euro) must be paid to the research station for accommodation and the weekly trip to town. Students must buy their food etc for themselves. For food about R 3000 (200 Euro) should be calculated per month. You might have extra costs, such as going to the restaurant / take away on town days, beer or wine, shopping for clothes etc., postage and telephone calls home. These can easily be another 100 Euro / month. **Including accommodation and groceries costs of approx. 300-400 Euro / month should be expected.**

Type of accommodation	Researchers and students with grant	MsC Student without grant	Field assistants
Per month			
2016	R 2900	R 1700	R 1450
2017	R 3000	R 1800	R 1500
2018	R 3200	R 1900	R 1600
2019	R 3350	R 2000	R 1650
2020	R 3500	R 2100	R 1750
Per day			
2016	R 125	R 70	R 50
2017	R 150	R 70	R 60
2018	R 150	R 70	R60
2019	R 150	R 80	R 60
2020	R 150	R 80	R 80

Rental fees for guests of students / researchers:

If there is space, guests can stay the first three days for free in the dormitories. Afterwards they have to pay R150/day or R 3000/month.

Use of rental fee: The rental fee is used for all running costs of the research station including gas, use of car, repairs and new infrastructure. Please give the rental fee at the 1st of each month to the research station manager in cash.

Grants: German students can apply for a grant from the Deutsche Akademischer Auslandsdienst (DAAD, www.daad.de). Here, commonly travel grants of 300 Euro are given to students. Best chances for Swiss students would be the SSAJRP: <https://www.unibas.ch/en/University/Administration-Services/Vice-Rectorate-Education/International-Office/International-Relations/Joint-Programs/Swiss-South-African-Joint-Research-Programme/Funding-Instruments/Faculty-Student-Exchanges.html>.

Holidays: If you want to go on holidays, please plan them before or after your stay in Goegap. If you stay for more than 3 months (currently not possible anymore because of the new visa law; see below), you are also allowed to take a holiday in between, but you have to inform us about this before your arrival. **Please note that you (and everybody else) has to pay the rental fee at the research station also during your absence.**

Telephone: There is no Telephone line and no reception for cellular phones at the research station. You can use the public phone at the office of the reserve (5kms by foot from the research station) if you have a Telkom phone card (available in Springbok at Spar or the post office). For emergencies only, people can leave a message at the office of Goegap: 0027 – (0)27 – 7189906. Please do not use this number in any other case than an emergency.

Email: Please be aware that **there is no internet connection in Goegap, but you can visit the internet café in Springbok ones a week.** Thus, there will be a delay of 1-2 weeks in receiving/replying to emails.



Pictures of the research station in Goegap

Climate: Cold in winter/spring (Mai-September), with temperatures often below 0 at night, between 10 and 22 during the day. As houses in South Africa, including the research station, are not very well insulated, it gets very cold inside. In summer (November-March) temperatures can be up to 40 degrees. Cold periods can also occur in summer. Rain falls mainly in winter and spring, with some thundershowers in summer. The table below gives only an estimate and it can differ from year to year (brackets).

Month	Minimum temperature	Maximum temperature	Days with rain	Rain in mm
January	14 (7-13)	35 (20-45)	0 (0-5)	0 (0-60)
February	14 (9-18)	35 (20-42)	2 (0-9)	5 (0-55)
March	12 (7-11)	30 (18-40)	3 (0-5)	10 (0-61)
April	8 (4-9)	25 (18-39)	4 (3-6)	10 (9-20)
May	1 (1-3)	22 (12-33)	4 (3-8)	20 (6-20)
June	0 (-2 -5)	18 (8-28)	5 (7-9)	35 (30-50)
July	0 (-1-6)	18 (9-29)	3 (0-5)	20 (0-40)
August	1 (-1-5)	20 (9-26)	4 (3-9)	20 (1-54)
September	4 (0-7)	24 (10-36)	4 (2-8)	10 (1-15)
October	6 (0-10)	25 (18-40)	2 (2-4)	5 (2-40)
November	12 (7-12)	28 (18-44)	1 (1-7)	5 (1-7)
December	12 (7-14)	32 (20-44)	1 (0-6)	5 (0-30)

You can find the weather broadcast for Springbok under (chosed Springbok as city!):

<http://www.mweb.co.za/weather/7DayForecast.aspx>

Flora: The Succulent Karoo is one of 25 biodiversity hotspots due to its large number of endemic plant species. It is especially famous for numerous species of succulents. In spring, large fields of wildflowers can occur after good winter rain. However, this is not predictable and can be any time between July and September, and in some years there are very few wildflowers. Less spectacular but still beautiful are the autumn flowers in March / April.

Fauna: Scorpions: big harmless ones and small very poisonous ones (wear shoes when you go to the toilet at night!). Sunspiders, stick insects and mantis in summer. Many reptile species including poisonous snakes (black spitting cobra, cape cobra, puffadder), which also visit the house (especially October – January). However, they pose no threats and we cannot guarantee that you will see one. The smallest tortoise of the world, *Homopus signatus*. Many bird species including Cape and spotted eagle owl and several species of raptors (black eagle, jackal buzzard, pale chanting goshawk and booted eagle). Mammals include springbok, gemsbok, mountain zebra, baboons, aardvark, aardwolf, jackal, wildcat, mongooses and maybe even honey badgers (spotted a few times), brown hyena (spotted in 2015) and a leopard (not spotted yet). Diurnal small mammals include the striped mouse, bush Karoo rat, whistling rats, dassie rat and three species of elephant shrews.

Other activities in the reserve: Hiking. Night drives to see the aardwolf and aardvark. Namaqualand is a heaven for star gazing.

Crime: Namaqualand is as safe as Europe. But you have to be careful in Cape Town and any other South African city. Don't walk in unknown areas, especially after dusk. Ask for advice at your backpacker.

Visa:

1. Check whether you need to apply for a visa for South Africa. Citizens of most western countries (Europe and USA) don't need a visa if they stay for up to three months. When entering South Africa, simply tick "holiday" as the reason for entering the country, and you will get a stamp into your passport allowing you to stay 3 months in South Africa. It is best to enter South Africa as a tourist. Do not state on the immigration form that you come to study or to work. You do not work here nor visit a university. If you don't state that you enter as a tourist, entrance might be declined and you would have to fly back.
2. The visa laws changed in 2015, and it is now very difficult to get a visa for more than 3 months. As the research station is a registered non-profit organization (NPO), you can try to apply for a visa for voluntary work. But you might get the stupid answer that voluntary work can only be done working with humans, not with animals. The only other option is to apply for a research visa. The problem here is that to get a research visa, you need a letter from your home university, that you are registered there and that you go for research to South Africa. If you can get such a letter, and all other documents, then you will get the visa (for up to three years) within 1-3 months. So when applying for a visa, you will have to hand in:
 - Letter from your university that you go to South Africa to conduct research.
 - My invitation letter
 - A filled in form that you will find on the homepage of the South African embassy
 - Your passport (valid for at least 30 days after you left RSA)
 - Certificate of good conduct / police clearance (polizeiliches Führungszeugnis)
 - Medical certificate
 - X-rays of your chest (South Africa is an emigration country, and the problem exists that people with tuberculosis from other African countries cross the border)
 - You have to show that you have enough money (bank account statement)

- Medical aid that is valid for RSA
- Return ticket
- Fee of approx. 80 Euro
- Unfortunately, you have to go to the South African embassy in person!

It is not possible to extend your visa while you are in South Africa. For an extension you have to go back to your home country!

How to get to Goegap ?

Fly to Cape Town and stay there for one night or longer, if you would like to see a bit of the city. In general, the backpackers in Long Street, in Gardens, and “Zebra Crossing” are all suitable places in town.

Bus from Cape Town to Springbok: The intercape bus is the safest and most comfortable way to get to Springbok. You can book your ticket (approx. 500 Rand one way) online at <http://www.intercape.co.za>. The bus leaves Cape Town at 17:00 and arrives at 2:20 in Springbok. **So you will arrive there in the middle of the night!** This means you have to stay one night in Springbok and book a hotel. Somebody from the hotel will pick you up at the bus stop. One good option seems to be the Springbok Hotel http://www.jcbotha.co.za/masonic_hotel.html, springbokhotel@jcbotha.co.za which offers pick up from the bus station (approx. R600 for single room including pick up). Another possibility could be the Masonic Hotel masonichotel@jcbotha.co.za, or Boesmanland Guesthouse (Tel: 027-7121757), who might be willing to pick you up at the bus. Other guesthouse in Springbok can be found on the internet.



Taxi (=minibus) from Cape Town to Goegap: You can book a minibus in Cape Town or already before you get to Cape Town. These minibuses are called taxis in South Africa and can be booked by phone only. Taxis go every weekday from Cape Town to Springbok. **Important: Taxis often don't run on Saturdays and only few on Sundays.** They pick you up at the hotel/ backpacker and will drop you off at the research station. Pickup is between 2.00 and 5.00 o'clock AM (morning!). When you take the taxi, you will arrive in Springbok during the middle of the day between 1 and 3 PM such that when you do have problems getting to Goegap you can somehow make arrangements to get there (taxi from springbok) or look for accommodation. (In 10 years only 1 of > 60 students had this problem!). **Make sure that both the Cape Town office operator on the phone and the driver knows that they will have to bring you to Goegap (not only to Springbok) before booking and boarding the taxi.** The taxis costs around R500. Their telephone numbers are (027 is the area code for Springbok, 021 for Cape Town):

Titus: 021-9092533; 027-7121381 (transfer from Springbok to Goegap costs R30 extra).

Bezuidenhout: 021-9324950; 027-7121884 (transfer from Springbok to Goegap costs R150 extra).

(Carstens: 027-7121847; this company will bring you only to Springbok, but not to Goegap).

Minibuses also run in the city of Cape Town. Here these taxis are not very reliable and can be even dangerous! However, these are different operators than the minibuses going to Springbok. So if the people at your hotel warn you not to take the minibus to Springbok, they talk about different companies. Nevertheless, the minibuses might drive quite fast, and when they are full, they are not very comfortable. It is not European standard.

If you get stranded in Springbok, you have four options:

1. You can ask at the taxi stands for transport to Goegap by car. This will cost you around R200. Make sure they drop you at the research station, not only the office. Ask for Bezuidenhout transport (Tel: 027-7121884)
2. You can go to the garage “Auto Mac” behind Standard Bank and ask for help. They know us well! Standard Bank is in the main road (direction Cape Town) and Auto Mac just behind it.
3. You can ask at the police for help. They are surprisingly friendly and helpful!

Accommodation

The research station is directly at the field site. The research station is an old farmhouse with two dormitories, one student’s office and one big kitchen. In winter it can get very cold, especially during nights, as the insulation is bad. Additionally, we have three small wooden houses: 2 houses of 3x6m for student accommodation (sleeps two each), one extra bathroom and the mouse colony. The research station lies lovely and lonely in the nature reserve.

Sleeping-rooms: There are two sleeping rooms for students, one sleeping two, the other one three. Additionally, we have two Wendy Houses (wooden houses), sleeping two each. Each student has its own bed, pillow and cupboard. **You have to bring your own sleeping bag/blankets.**

Kitchen: There is one communal kitchen and two fridges run by solar power. Space in the fridge is limited! A big braai (BBQ) area exists.

Power for light and computers is provided by a solar system and a wind turbine. Each room has one power plug. However, power is restricted and **you are not allowed to use any devices that use a lot of power like a hair dryer.** You can charge your camcorder, camera, toothbrush or cell phone during the day, but not during the night. We have to save energy, especially during cloudy days.

Car: A Mahindra bakkie (=2x4) is used for the weekly shopping trip. **There is no car for private use!** As most accidents with volunteers in South Africa happened when they were driving a car (at other projects volunteers died during car accidents or got permanently disabled), we do not allow volunteers to use our cars.



Solar system and wind turbine at the research station.

Water is provided by a water pump and water tanks. Thus, we have to use water sparingly, and showers should not take longer than 5 minutes. Hot water is available. There is one big communal bathroom with two showers and two toilets and one small bathroom. To get to the bathroom you have to go outside and walk around the house.

Laundry. Since 2010 we have a washing machine, but use is restricted to periods of excess solar power. Especially in winter you might not be able to use the washing machine for weeks and then the laundry has to be done by hand. There is a clothesline for drying.

Health: You should have vaccinations against **polio and tetanus**. If you come in winter/ spring, you should also get a vaccination against the **flue**. Organize this in advance, as in Europe it is often difficult to obtain flue vaccination in summer, which is autumn/ winter in South Africa.

Goegap is in a desert, one of the healthiest environments of the world. We are far away from the tropics, so there are no tropical diseases. There is no malaria, bilharzias, yellow fever, or risk of hepatitis. There is a some risk of meningitis transferred by ticks.

To our knowledge the mice do not transfer rabies. But if you are a very anxious person, you might consider vaccination against rabies. I myself and my family do not have vaccination against rabies, and most students do not have it.

The health system in South Africa is well developed and comparable to Europe. Contact your health insurance to make sure you have medical cover for going overseas.

For your own safety and well being:

- It is a pre-requisite that you have a valid health/travel insurance. Email a copy of this **before your arrival** to succulent.karoo.research.station@kabelbw.de. Upon arrival, hand a copy to the research station manager.

- Make sure the project has current contact details of your next of kin.

Apart from a broken wrist, we had no serious accident in Goegap since the project started in 2001, and I hope it will stay like this. But accidents happened at other projects. **Most dangerous are cars and roads.** This is why we do not allow students to use our cars.

Indemnity Form: All field assistants have to complete an indemnity form at arrival in Goegap. This means you will be personally responsible for your stay in Goegap and any accidents, injury or death that might occur in Goegap.

Money: Springbok has several banks and ATM cards from all major banks in Europe and the USA can be used to withdraw money. To exchange traveler checks takes very long and costs significant bank fees. Most shops and restaurants accept credit cards, e.g. the Spar supermarket where we do our weekly shopping.

Equipment

You should bring the following:

- Books to read. There is no TV here!
- DVDs or movies on file to watch on the computer at night (when you are not too tired of walking all day through the field)
- A good torch and a spare torch. Spare bulbs for both of them
- A head torch can be very useful, especially when determining sleeping sites after sundown.
- A watch. You **MUST** bring a watch, a cell phone is not enough.
- A pair of binoculars, if you have one.
- Sun cream
- Hat for protection against the sun

- Warm sleeping bag (especially May to October can be very cold!)
- Warm clothing if you come in winter/ spring, i.e. several sweaters, a pair of gloves, a warm hat, and house shoes.
- If you come in summer, bring at least one sweater for cold evenings.
- Warm jacket in winter/ spring.
- Long trousers for field work (snakes, thorn bushes!). Students are not allowed to conduct field work in shorts!
- Light rainwear for spring/ winter.
- Good shoes for work in the field.
- Otherwise bring light cloths. Long trousers will protect you against snakes, long shirts against the sun.
- You can bring your own laptop, which would make you independent of the two computers we have at the research station.

Work schedule: Working times have to be flexible and adapted to the situation in the field and the different scientific projects. We work from sunrise (between 5.30 and 7.30, depending on season) until 1-2 hours after sundown (19.00-22.00). We work at least 5 days a week in the field. One day (normally Wednesday or Thursday) is used to go shopping in Springbok, to clean the research station and to clean the mouse cages (not counted as working day). One day a week (normally Sunday) is free. **If it rains during the week such that work is impossible, we might instead work on Sunday. Also, sometimes it is necessary to work 7 days a week.** Normally we have one braai a week, either on Saturday night (summer) or Sunday afternoon (winter).

Management of Research Station

The directors of the research station are Dr. Carsten Schradin and Dr. Neville Pillay, who are also the PIs. Carsten is normally in Goegap for 2 weeks in February and in August. The station is managed by a station manager, the scientific project by a research manager. Both managers are responsible that we know at all times which mice are present at the field site, where they come from, their reproductive tactics, and group compositions. There is always at least one manager at the station.

Research Station Duty

There is no caretaker and it is not the job of the station manager to do the dirty work. Thus, apart from the scientific work there are duties for field assistants who have to help with the maintenance of the research station. Each field assistant will be instructed on arrival by the station manager. Most tasks are not pleasant, but it is important that they are done in a reliable and accurate way. You will learn how a research station is run that is in the middle of nowhere and has to create its own electricity and own water supply. If you are interested in the function / importance of any of the tasks that is not yours, ask the field assistant in charge (e.g. if you want to know how the solar system works, how the water system works, etc.). Research station duties include:

- Daily check solar panels and batteries
- Reminder to defreeze in the fridge the night before the braai (to save energy during the night).
- Weekly check and fill up water tank
- Weekly cleaning cages
- Weekly cleaning research station
- Weekly cleaning car
- Check and replace gas bottles
- Monthly cleaning of traps

Facebook Group

Every week at least one person staying at the research station must write a contribution to our Facebook group: <http://www.facebook.com/groups/stripedmouse>. Everybody staying at the research station does participate in this. If somebody does not want to join Facebook, he / she can send the report to me and I will post it. The Facebook group is open, so everybody can visit it without becoming a member (for example friends, partners and family of field assistants).

Reading list: The reading list for volunteers can be found at http://www.stripedmouse.com/site1_3_5.htm. Please read first the following article: <http://stripedmouse.com/documents/Schradinetal2012.pdf>. You can find more scientific literature at http://www.stripedmouse.com/site1_2_1.htm.

To prepare yourself for your stay in Goegap, we suggest you explore our website www.stripedmouse.com. We especially suggest the page about the striped mouse (http://www.stripedmouse.com/site1_1.htm) and the research station (http://www.stripedmouse.com/site1_2_2.htm) as well as previous issue of our email-newsletter (http://www.stripedmouse.com/site1_6.htm).

Last but not least, you can watch 45min video about the striped mouse in Goegap on youtube:

In the Land of Mice at http://www.youtube.com/watch?v=XP_043qy9Qk (English).

A shorter but better quality documentary is available here:

<http://www.youtube.com/watch?v=w6rvF5XrVn0&list=UUd12oFYqs5OobiiKMhDnFtw&index=1>

Please remember the following

- Everybody staying at the research station contributes to its running costs by paying a monthly fee.
- Everybody staying at the research station contributes to the duties to maintain it. There is no house keeper doing this for you.
- Send an email at least one week before your arrival to the research station to succulent.karoo.research.station@kabelbw.de , stating what day and by what means of transport you will arrive. This is important to pick you up and to arrange shopping for you!
- We go shopping only ones a week, so you have to plan ahead!
- There is NO car for private use.
- There is no telephone, internet or cell phone reception! You will learn that living without these things is possible, even more relaxed!
- Save water and electricity at the research station!
- First read all the information you got from us, before asking questions.
- If you want to go on holidays, please plan them for before or after your stay at the research station.

**Become a member of our Facebook group “Striped Mouse Project Goegap”
to stay informed!**

http://www.facebook.com/#!/home.php?sk=group_163918286965410&ap=1

For further questions contact me via email:

succulent.karoo.research.station@kabelbw.de