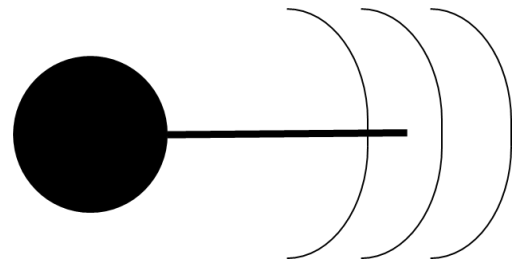


radio-tracking.eu

Frist Workshop in Freiburg im Breisgau, Germany



Important:

Start: 23rd February 2018 14:30

End: 25th February 2018 12:00

Target Participants: Users of radio tracking equipment who are interested in automation of the process

Location: Leo-Wohleb-Str. 6, 79098 Freiburg, Germany

Costs: 85€ including catering (71,43€ without 19% Tax)



Short Project Description:

The goal of the open-source project radio-tracking.eu is to monitor the movements of animals using lightweight VHF tags and low-cost receivers. It is designed for an easy assembly and operation.

Short Workshop Description:

The workshop has got four main session: introduction, software, hardware and use cases. In the introduction session we will discover the basics of radio telemetry. Afterwards we use the software session to install and discover the features of radio-tracking.eu. The hardware session follows, and we will discuss the advantages and disadvantages of several hardware setup options. In the last session we will discuss more detailed the possible use cases



For any questions, please don't hesitate to contact the radio-tracking.eu team via email (info@radio-tracking.eu), via skype (ralf.zeidler@fridata.de) or using the good old phone: +49 761 2055 1022

The project is financially supported by the Ministry of the Environment, Climate Protection and Energy Sector Baden-Württemberg



Baden-Württemberg

MINISTERIUM FÜR UMWELT, KLIMA UND ENERGIEWIRTSCHAFT

Day 1: 14:30 – 18:30

10:00 – 13:30 Luggage drop off for early birds who want to discover the medieval city centre

13:30 – 14:30 official Reception

14:30 – 16:00

Welcome and quick get-to know

Challenges of an automated radio tracking system

16:00 – 16:20: **Coffee/Tea Break**

16:20 – 17:20

Physics of electromagnetic waves

René Janssen: First experiences using motus to create a local scale movement profile

17:20 – 17:30: **Coffee/Tea Break**

17:30 – 18:30

Automated systems: motus, atlas, radio-tracking.eu, GPS

Markus Wallschlag: ham radio operators view of radio tracking

Evening program: enjoy Freiburg's nightlife – no dinner planned

Day 2: 09:00 – 18:00

09:00 – 10:40

How to install and update the software, download applications

Overview of the functions

Time-Frequency-Signal strength heatmaps: check for noise

Automated logger: settings and testing

10:40 – 11:00 **Coffee/Tea Break**

11:00 – 12:30

Logfiles, map

Remote connection

12:30 – 14:00 **Lunch**

14:00 – 15:30

Transmitters: Coded and VHF tags

USB-Receivers: RTLSDR, FunCube, Dessau-Telemetrie

Raspberry pi vs other "micro"-Computers, Smartphones

preparation of Schlossbergturm-Test

15:30 – 17:00

Hike to Schlossbergturm with Cheesecake or Blackforest-Cake on top

17:00 – 19:00

antennas, masts, power banks, solar cells, batteries, electromagnetic compatibility

19:00 – open end: **Dinner**

Day 3: 09:00 – 12:00

09:00 – 10:30

practical Session: setup for triangulation

practical comparison between motus, radio-tracking.eu and other receivers

10:30 – 10:50 **Coffee/Tea Break**

10:50 – 12:00

Wanted/needed features

Nice to have features: Camera and Micro-Feature, Sensors

Frequently Asked Questions

Catering:

- as stated in the program
 - o Friday: snacks, coffee, tea, water
 - o Saturday: lunch, dinner, cake, snacks, coffee, tea, water
 - o Sunday: snacks, coffee, tea, water
- vegetarian food (if not wanted, check need meet to survive), local dishes, cheese cake, black forest cake, coffee, tea, water

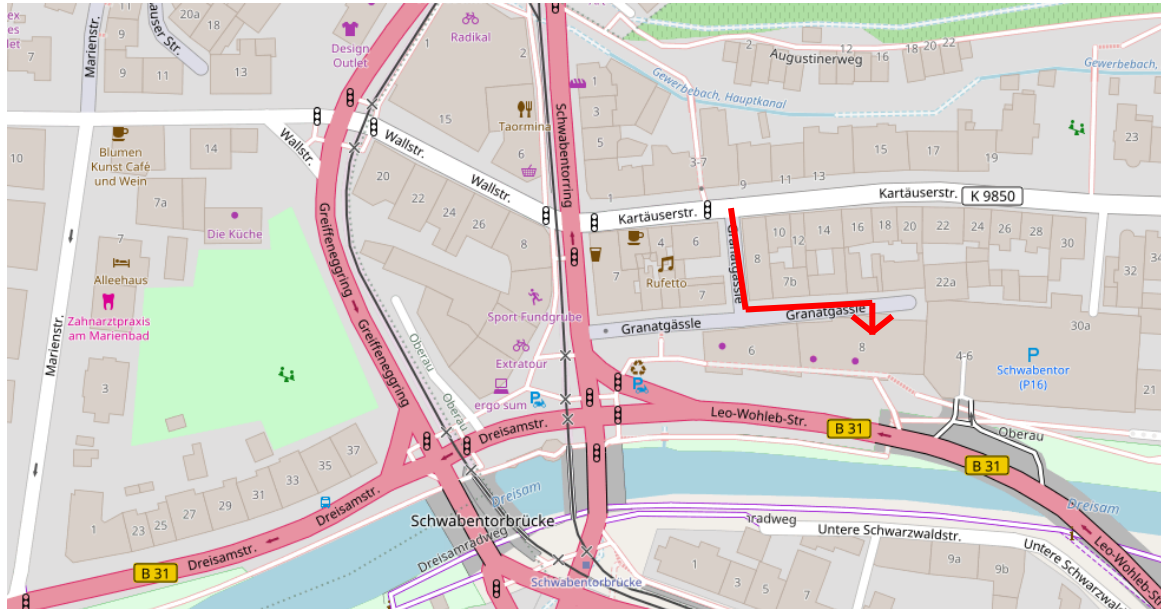
Equipment required (if not available, arrangements are possible):

- Raspberry Pi 3
- RTLSDR Dongle
- SD Memory Card 32 Gb
- SD Power bank
- not required but nice to compare: analog receivers of any manufacturer

Hike:

- https://en.wikipedia.org/wiki/Aussichtsturm_Schlossberg - for the hike to the Schlossbergturm, please be prepared (Hiking Boots, good clothes)

Location: Leo-Wohleb-Str. 6, 79098 Freiburg, Germany



Accommodation is self organized:

- Jugendherbe Freiburg: <http://www.jugendherberge.de/de-de/jugendherbergen/freiburg%20international9/portraet>
- Hostel Freiburg: <http://www.blackforest-hostel.de/> (right around the corner)
- Hotel am Rathaus – right in the medieval city centre: <http://www.am-rathaus.de/>

Parking:

- 3 Places on company premises, please reserve - first come first serve
- parkade right next door – expensive though – (27€ the day): <http://www.freiburger-stadtbau.de/parkhaeuser/schwabentorgarage.html>
- grüne Plakette: <https://www.umwelt-plakette.de/en.html>
- winter tires are required on winterish conditions in Germany

next Airport:

- Basel Mulhouse Freiburg (BSL): <https://www.euroairport.com/en/>

Train Station:

- Freiburg main station: www.bahn.de

Payment:

- cash (euros)
- SEPA transfer: DE02 5001 0517 5420 6165 30
- Tax Identification Numbers required for excluding the taxes

Registration:

- next page

Registration

Register – please fill copy and paste the following form into an email (once for each person who you register), fill it out and send it to info@radio-tracking.eu

If you register, can't come and the no one fills the empty spot – there are still 50 € to pay.

Name:

Company:

Arrival Time:

Car (parking required):

Payment (pash/SEPA transfer)

Equipment available/required:

Meat required to survive:

Persons who don't take part in the workshop but would like to show up for Saturday dinner:

Vat Number for European companies:

Email Address allowed to share with other participants (yes/no):