



Atmospheric Science Field Skills

SOEE3291/SOEE5690

**Arran field trip
12th–19th September 2019**

This document provides you with information on:

- Fieldtrip dates
- Departure times from Leeds and Lochranza
- Accommodation
- Course payment information for those who are taking the module as an option
- List of equipment

Please find enclosed fieldtrip information and if you require any further details, please do not hesitate to contact the module leader Jim McQuaid (J.B.McQuaid@leeds.ac.uk).

Accommodation

We will be staying at the Lochranza Field Centre, Lochranza, Isle of Arran, KA27 8HL
Telephone: 01770 830 637, <http://www.lochranzacentre.co.uk/>
The telephone number above is for emergency use only. A payphone is available at the centre. The field centre has a no alcohol policy so please do not bring any with you, you will have the opportunity to visit the village pub. There is no local cash machine so bring sufficient cash for the week.

Departure time from Leeds on Thursday 12th September.

We will leave by coach promptly at 8.00 am from outside the Parkinson Building (the white clock tower building at the front entrance of the University). We should arrive at the field centre by about 5.30 pm.

Departure time from Lochranza on Thursday 19th September.

We will return to Leeds (again ending at Parkinson's steps) by coach and should arrive back at approximately 6.00 pm. We cannot guarantee that we will have arrived back at 6 but will aim to do so.

Field Course Handbook.

The course handbook will be available in the summer, it will provide extensive details of the exercises you will be involved in and you should read through this (you will be given hard copies when you arrive in Arran. There is a [dedicated webpage](#) where you can see more information and last year's handbook (which provides a good indication of the range of activities)

2019/20 Module: <http://webprod3.leeds.ac.uk/catalogue/dynmodules.asp?Y=201920&M=SOEE-3291>

List of equipment.

Please remember that you will be working outdoors for much of the time, so you need to be prepared! If your outdoor gear is inadequate you will not be allowed to participate on the course. You will be provided with a fieldwork notebook.

Please bring the following equipment with you:

- Sturdy walking boots with good ankle support.
- Waterproof and windproof clothing (jacket and trousers)
- Warm clothing (hats, gloves, jumpers etc)
- Sturdy medium/large rucksack (a small day sack will not be large enough as you will have to carry some pieces of equipment on various activities).
- **Lunch box and water bottle**
- Writing implements & calculator
- Any necessary medication.
- Provisions and cash for the entire week, as there are no shops or cash points near the field centre, the centre does have a small tuckshop providing chocolates, crisps etc
- The centre will provide bedding BUT you need to bring a **Towel**

You are strongly advised to bring the following although they are not compulsory:

- Sun tan cream
- Midge repellent
- Survival bag and first aid kit

Reading list.

There is a wide variety of books which may be useful depending on your previous study background, these include.....

- Dynamic Meteorology: A Basic Course. A Gordon, W Grace, P Schwerdtfeger, R Byron-Scott. Arnold Publishers, 1998.
- Atmospheric Science: an Introductory Survey. J Wallace and P Hobbs. Academic Press. 2006.
- The Atmospheric Boundary Layer. J R Garratt. Cambridge University Press, 1992.
- Meteorology for Scientists and Engineers. R B Stull. Brooks/Cole, 2000.
- Mesoscale Meteorology in Mid-latitudes. P Markowski and Y. Richardson. Wiley-Blackwell. 2010
- Mid-Latitude Weather Systems. T N Carlson. Routledge, 1991.
- Air Composition and Chemistry. Peter Brimblecombe, 2nd Edition
- Atmospheric Chemistry and Physics. Seinfeld and Pandis. Wiley-Blackwell. 2006
- Introduction to Atmospheric Chemistry: Daniel J Jacob. An on-line version of this text is available for viewing at <http://acmq.seas.harvard.edu/people/faculty/djj/book/index.html>

In addition there are a great many excellent online resources around the subject.