



Methods and Techniques in Primate Behaviour and Ecology

20 July – 3 August 2013

Danau Girang Field Centre, Lower Kinabatangan Wildlife Sanctuary,
Sabah, Borneo

A two-week field course in the Lower Kinabatangan Wildlife Sanctuary in Sabah, Borneo is being offered for the 2nd consecutive year by Danau Girang Field Centre, from 20 July - 3 August 2013. The course will not run with less than 8 students, with a maximum of 15 spots. The cost is £1000, which does not include your return ticket to and from the field centre.

Tuition will be given in the following areas: satellite tracking and radio-telemetry of diurnal and nocturnal primates, habitat and phenology sampling, methods in behavioural observation, primate census methods, GPS, primate endo-parasites analysis, and acoustics. In the first week, lectures will be given that introduce concepts in primate behaviour and ecology, current topics in primate research (with special focus on primate behaviour), and a range of research methods. At the end of the first week, the students will develop their own research projects and apply one of the taught methods to collect their own data. At the end of the course, the students will give a mini-presentation about their project and write a project report. In addition, the students will learn how to write a research proposal in a series of lectures and practice sessions. The final research proposal (supported by the student's preliminary results) could be used to apply for MSc or PhD studentships. You may be able to arrange independent study or dissertation credit from your university.

Cost includes: transportation to and from the field centre by bus and boat from Sandakan Airport, your accommodation and meals/drinks at the field centre during the two weeks, a conservation fee, fuel for boat trips, and the use of the facilities (including laboratory space, electricity, running water and internet!). The cost does NOT include a round-trip international flight. Students with special dietary requirements (vegetarian) or allergies can be accommodated but needs to be pre-arranged.

Deadline for applications is 31 January with £200 deposit.

Funding may be available from your local council. Students attending from one University, School or College may be eligible for Royal Society or British Ecological society expedition grants. Use Google to search for youth expedition/ conservation grants. Education/transferrable skill stipends may also be available from your local town council, county or school.

Contact Danica Stark to enrol or for more information: danicastark@gmail.com.

See also: <http://www.cardiff.ac.uk/biosi/facilities/danaugirangfieldcentre/index.html>





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(Please contact danicastark@gmail.com for any questions or concerns)

Application Form

1. Personal Information

Name: _____
Surname Given Names

Mailing Address: _____
Street

City County/State

Post Code Country Phone (____)(____)

Email _____

Permanent Address (if different from Mailing Address):

Street

City County/State Post Code

Country Phone (____)(____)

Please provide detail on any allergies, medical or dietary requirements (i.e. vegetarian, vegan)

2. Education

University or College _____

Undergraduate _____ Graduate Student _____ Other _____ Year of study (2012-2013) _____

Course _____

If "Other", please explain)

3. Parent, Guardian or Emergency contact.

Name _____ Relationship to you: _____

Phone (day): _(____)_____ Phone (mobile): _(____)_____

Address _____

4. Passport Details

Date of Birth: _____ Nationality (as on passport): _____

Passport Number: _____ Place of Issue: _____

Date of Issue: _____ Date of Expiry: _____

NB: Please ensure your passport is valid for at least 6 months after your departure date from Malaysia

Please indicate any particular species, topics or projects you would be interested in during the field school (i.e. basic field skills, dissertation project, conservation projects). If you have any relevant experience, please explain.

Swimming Proficiency: Advanced Moderate Beginner Cannot Swim

How did you hear about us? The web Friend University Poster Other _____

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Declaration	Initial Each Box
I wish to confirm my place on this expedition by submitting a deposit of £200	
I agree to pay the balance by the dates stated in this application pack	
I have read and accept the Terms and Conditions dated 01/11/2012 relating to this field course	
<p>Your signature: _____ Today's Date: _____</p>	

MEDICAL FORM (CONFIDENTIAL)

Full name			
Date of birth		Occupation	Nationality
Please tick to provide permission for us to contact your GP if required			
GP contact details	Name:	Address:	
	Telephone		
Any medication currently taken by you and reason for use			

**Further medical questions (Please tick YES or NO boxes for each):
Have you ever HAD or are you at PRESENT suffering from any of the following?**

	YES	NO		YES	NO
Tuberculosis, pneumonia, pleurisy, recurrent bronchitis, asthma or other chest disorder?			Gastric, duodenal or peptic ulcers, recurrent indigestion, gall stones, jaundice, hernia (rupture), dysentery?		
Nose/throat/sinus problems or speech defect?			Kidney and urinary disorders?		
Ear trouble, earache, discharge or deafness?			Piles (haemorrhoids)?		
Diabetes or thyroid gland disorder?			Prostate problems?		
Rheumatic fever, heart disorders/angina, raised blood pressure or stroke?			Epilepsy, fits or fainting attacks, migraines, vertigo, paralysis or other neurological disorder?		
Gynaecological problems?			Anxiety or emotional difficulties, depression or other psychiatric problems, anorexia, bulimia?		
Varicose veins?			Allergies, skin trouble or dermatitis?		
Anaemia or other blood disorder?			Serious travel sickness?		
Arthritis, rheumatism, gout, disability or injury of any kind to arms or legs including ankle, back or disc trouble?			Malaria, hepatitis, schistosomiasis? (bilharzia), worm infestation, any other tropical disease?		
Any eye disorder or colour blindness?			Any other relevant health disorders or hospital treatment in the last 5 years?		

If you have answered YES to any questions or there is any other relevant medical information which is relevant to your suitability of joining the expedition, please provide further details:

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STATEMENT:

I declare that all the information on this form is correct and complete. I am in good, sound mental and physical health and have not omitted any information which might be relevant to my fitness to participate in the DGFC Field Course. I undertake to notify the DGFC Project Leaders of any significant changes or results received prior to commencing my expedition.

Your signature

Date:

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PAYMENT

To confirm a place for the field course, a non-refundable deposit of £200 should be sent with the application form, due Jan 31, 2013. The balance of £800 should be received by May 31st 2013 giving a total contribution of £1000 for two weeks.

Payment should be made by direct deposit to **Danau Girang Field Centre**. We will send details for how you can transfer money directly into the Centre's account.

Cancellation conditions:

A full refund will be given if you are not accepted for the field course for any reason.

Should you decide to cancel your place on the field course the following repayments shall apply:

- If you cancel more than eight weeks before expedition start date: a full refund of any monies paid, less £200 and less any payments made in respect of the individual's participation on the expedition.
- If cancellation is made after the start-date of the field course: No refund will be given.
- Other conditions apply – see DGFC Terms and Conditions for further details.

Payment includes:

- Conservation fee.
- Transportation to/from Sandakan/DGFC.
- Transportation by boat (engine and fuel).
- Accommodation (incl. linen and towels).
- Food (full board) at the Field Centre for the duration of the field course.
- Hot drinks and mineral water at the Field Centre.
- Access to the equipment and facilities at DGFC.
- Internet access.

Payment excludes:

- Flights (international and domestic).
- Travel and Medical Insurance.
- In-transit accommodation.
- Personal spending money.
- Personal kit (inc. toiletries, personal medical kits etc.).



FURTHER INFORMATION

FIELD STATION AND AREA

The Malaysian state of Sabah is located on the northern portion of Borneo, the world's third largest island. Sabah covers an area of about 76,000km² and shares the island with the Malaysian state of Sarawak, the State of Brunei Darussalam and the Indonesian provinces of Kalimantan. The base camp, Danau Girang Field Centre (DGFC), is located in eastern Sabah, in the Lower Kinabatangan Wildlife Sanctuary. The Sanctuary lies along the Kinabatangan River, the longest river in Sabah, at 560 km. The Kinabatangan River is a widely meandering river, and now has about 30 oxbow lakes scattered along it. Due to its high levels of biodiversity, these wetlands are one of the most important and productive in Malaysia.

The Lower Kinabatangan Wildlife Sanctuary (LKWS) consists of 10 forest blocks along the Kinabatangan River, totalling about 26,000 ha, and creates a link between the forest reserves already along the river (approximately 15,000 ha) and state and privately owned land (approximately 10,000 ha). The forest types represented include lowland dipterocarp forest, forest over limestone, seasonal and tidal swamps, permanent freshwater swamp, and mangroves. These forest types are located within a landscape with significant human impact, including villages, small scale agriculture and oil palm plantations. This matrix landscape is ideal for investigating the influence and interaction of human encroachment on the diversity, behaviour and abundance of the local wildlife.

DGFC is well equipped with hostel building for volunteers, complete with a seating area. The hostel is equipped with multiple toilet and shower facilities. The main administration building has a fully equipped laboratory, library, computer room (with internet access), and dining area. Meals are prepared by experienced cooks.



WILDLIFE PRESENT

The mixture of lowland dipterocarp forest types of the Kinabatangan Floodplain makes this an area of high importance, supporting high levels of biodiversity for mammals, birds, and herpetofauna, many of which are endemic to Borneo. Mammals present include Bornean elephant, clouded leopard, leopard cat, civets, bearded pig, sambar deer, otter and sun bear.



There are 10 primate species observed in the area, including the proboscis monkey, Bornean Orang-utan, Muller's gibbon, long-tailed macaque, pig-tailed macaque, silver langur, maroon langur, and two nocturnal primates, the Western tarsier, and the Bornean slow loris.

Over 300 bird species can be found along the Kinabatangan River, including all 8 species of Hornbill found in Borneo, the Endangered Storm's stork and the Oriental darter.

ENVIRONMENT

A moderate level of fitness will be required for forest trekking to be carried out through sometimes boggy and swampy terrain. In general the terrain is flat, but there are many dips with numerous obstructions to negotiate including fallen trees, the mosquitoes, thorny plants and humidity causing discomfort from time-to-time. Tree stilt roots are a tripping hazard, so care must be taken when walking in the forest. Two species of understorey plants, pandan and rattan, are widespread and both of these have very sharp cutting thorns.



CLIMATE

Sabah enjoys an equatorial climate with daytime shade temperatures that typically reach 32°C and drop to around 23°C at night. It experiences very high humidity and the forests of the Sanctuary are wet in places. This tropical climate consists of a wet and dry season. The field course will take place during the dry season, which seems a little hotter and not quite as wet as the wet season, although it still rains quite often.

VISA REQUIREMENTS

A visa may be necessary for visitors from some countries. Please visit the Malaysian Embassy (<http://malaysia.embassyhomepage.com>) for further information. You must ensure that your passport will be valid for at least 6 months after your departure date from Malaysia.

INSURANCE

You must arrange comprehensive travel and medical insurance cover for the entire duration of the expedition. You must ensure that your insurers are aware of the type of travel and work to be undertaken during the expedition. It is strongly recommended that you take out a travel health insurance policy as all expenses related to any health problem or accident will be your own responsibility. DGFC will not be liable for injury, damage or loss to person or property

TRAVEL

International Flights from the UK to Malaysia cost between £500 and £850 depending on when you book, when you travel and which airline you travel with. Kuwait Airways, Gulf Air, Lufthansa, Etihad, Malaysian Airlines and Emirates are some of the best mid-cost airlines handled by most travel agents. STA Travel and Trailfinders are some of the best agents for students. If you fly via Kuala Lumpur, please be aware that there are two airports and ensure that you will have enough time for your connecting flight in case you need to transfer to the other airport.

The field course will start on the specified date in Sandakan, where we will all meet at the airport before travelling together to the field site.

HEALTH

As far in advance as possible before departure, (ideally 6 months), it is strongly recommended that you consult with a travel health specialist regarding what immunisations and medications you should consider for your trip. We strongly recommend that you are vaccinated against typhoid, poliomyelitis, tetanus, diphtheria and hepatitis A.

Mosquitoes abound all year round and insect repellent is strongly recommended along with appropriate clothing to wear at dusk and dawn when mosquitoes are the most active. Please consult your GP or travel clinic to choose the appropriate prophylactic tablets. If you are particularly sensitive to insect bites, please bring your own antihistamine cream and tablets.

The local manager (permanently based at the centre) is trained in first aid. The centre is also in direct contact with a local company [Fieldskills](#) which provides a forest safety course at the beginning of each field course.

Reliable doctors are available in the nearby village if you are not feeling well during your stay. Please ensure you bring sufficient quantities of any medication you routinely use (e.g. inhalers for asthma or that you may need in an emergency). You may wish to bring your own medicines for common ailments such as diarrhoea, colds etc. In case of emergency, the student/staff will be transported by boat to the nearest village where a car (4x4) is available for transportation. The nearest hospital is about 20 minutes drive (Kota Kinabatangan) for minor intervention. For major intervention, the nearest hospital is in Sandakan, about 1h30 by car. Field course risk assessments are provided to all students and signed by them at the start of the field course.

EQUIPMENT KIT LIST

- Raincoat
- Hat
- Small backpack (about 15-20 liters) for the field
- Binoculars (waterproof if possible)
- Compass
- Whistle
- Water bottle
- Pair of walking boots/Wellington rubber boots (the latter is recommended)
- Good torch light (i.e. maglite) + batteries
- Head torch (with red filter if possible)
- Waterproof watch
- Waterproof bag for your camera
- Personal note book (waterproof) and pens
- Penknife (i.e. Victorinox)
- Pair of sandals for camp/flip flop
- Good sunglasses
- Sun cream
- Mosquito repellent
- Needle and sewing cotton
- Ecological toilet articles (soap, shampoo, toothpaste, talc, etc) and tampons
- Personal medicine and first aid kit (see below)
- at least three pairs of long field trousers (cotton if possible, dark colors - kaki)
- tee-shirts and long sleeves shirts (cotton if possible, dark color, kaki)
- a couple of sweat shirts and comfy trousers for the evenings
- Cotton socks
- Cotton underwear
- Leach socks (optional)
- Personal mosquito net (optional)
- Batteries for camera, torches, etc
- Your papers (passport, vaccination book, insurance, etc)
- A couple of books (that you can leave at the station)
- a USB stick (that will allow you to copy pictures, data, etc)
- For those who will stay in Sabah after the field course, do not forget to bring "town/non jungle clothes"...

We will provide sheets, pillow and pillow cases, blanket and towels. We will also provide the participants in each room a large plastic container with dehumidifier in which you will be able to store your camera, binoculars, batteries, phone, glasses, books, personal papers, passport, etc

PERSONAL FIRST AID KIT

- Painkillers (aspirin/paracetamol/ibuprofen)
- Antihistamine creams/tablets for treatment of insect bites.
- Fungicidal cream/antifungal dusting powder.
- Plasters (band-aids).
- Eye drops.
- Antiseptic wipes, cream or spray.
- Anti-malarial tablets.
- Anti-diarrhoeal tablets.
- Sachets of re-hydration powders, such as Dioralyte (essential for replacing lost minerals from excessive perspiration).
- Insect repellents.
- General broad spectrum antibiotic.
- Talcolm powder recommended for sweat rash.
- Sun cream; after sun lotion and Lip protection cream.
- Support bandage - If you have had any previous ankle/knee injuries
- 'Epi Pen' for those with strong allergies to stings/bites/nuts etc. please consult with your GP
- Any personal medication that you normally bring e.g. Asthma inhaler. Please bring spares.

DGFC STANDARD TERMS AND CONDITIONS dated 01 November 2012

The following are the **Standard Terms and Conditions** relating to DGFC.

1. DEFINITIONS

In these Standard Terms and Conditions, the following expressions shall have the meanings set out below:

- (a) **DGFC** shall mean the Danau Girang Field Centre
- (b) **Volunteer(s)** shall mean the person(s) who have signed the Application Form and received written confirmation from DGFC that they have been accepted as a member of the DGFC Field Course;
- (c) **Course** shall mean the Field course organised by DGFC upon which the Volunteer has been accepted to travel and participate;
- (d) **Leaders** shall mean the Leaders of the expedition appointed by DGFC and who represent DGFC on the Course;
- (e) **Payment** shall mean the total sum payable by the Volunteer to participate in the Course as specified.

2. ACKNOWLEDGEMENT OF NATURE OF EXPEDITION

(a) The Volunteer acknowledges and accepts that the Course is designed to be primarily of scientific and educational benefit to the host country and do not have clearly defined timetables, itineraries and arrangements. Flexibility of Field Course timetables, itineraries and arrangements should not only be anticipated but expected. In agreeing to join and participate in the Course the Volunteer agrees to accept this flexibility and to be prepared for variation which may arise with little or no prior notice, and acknowledges the right of DGFC to make alterations and variations.

(b) The Volunteer hereby acknowledges and accepts that there is a significant element of personal risk and potential hazard involved in undertaking an expedition of the nature organised by DGFC and whilst DGFC aims to safeguard the Volunteer's safety, it cannot be held responsible for damage or injury caused by risks of hazards beyond its control.

3. FORCE MAJEURE

DGFC will incur no liability for any loss which a Volunteer may suffer through cancellation or variation of an expedition or a flight or flights due to fire, Acts of God, war, riot or civil commotion, strikes, quarantine, government or other official intervention or due to any reason whatsoever outside the control of DGFC. Volunteers will be expected to read and sign a Hazards Awareness form after safety training once they arrive in base camp.

4. PAYMENT

(a) A Deposit of £200 shall be paid to DGFC, to be returned or refunded if the Volunteer is not accepted by DGFC. (b) The Volunteer

agrees to pay the balance of the Payment by the dates specified in the application pack. (c) Failure to pay the Deposit and/or the balance of the Payment by the due date(s) entitles DGFC to cancel the participation of the Volunteer on the Course. (d) After the commencement of the Course there can be no refund of the Payment or of any sums paid for services provided during the Course but not included in the Payment.

5. CANCELLATION BY VOLUNTEER

Cancellation of a booking must be in writing. The date of cancellation for the purposes of the cancellation provisions below shall be the date of the receipt of the letter. Refunds of the Expedition fee will be made as specified in the application pack.

6. CANCELLATION BY DGFC

(a) DGFC reserves the right to cancel the Course and agrees to inform the Volunteer in writing to the address supplied on the Application Form. If such cancellation is due to circumstances totally within the control of DGFC, DGFC agrees to refund the Volunteer all monies paid by the Volunteer towards his/her Payment only and the Volunteer agrees to accept such refund as being in full and final settlement of all and any of DGFC's liability to the Volunteer.

(b) The Volunteer acknowledges that certain medical and/or mental health conditions as declared by the Volunteer on all medical forms submitted to DGFC by the Volunteer may be contra-indicatory to safe participation on the DGFC Course by the Volunteer and DGFC reserves the right to cancel a Volunteer's Expedition based upon the medical advice. If DGFC cancels a Volunteers Course based upon medical advice received by the DGFC Medical Advisor(s), DGFC agrees to refund all monies paid by the Volunteer towards his/her Payment only and the Volunteer agrees to accept such refund as being in full and final settlement of all and any of DGFC's liability to the Volunteer.

(c) Once the Course has commenced if the Volunteer is found to have a pre-existing medical condition not declared on the submitted medical form, which is deemed but the Leader(s) to pose a risk to the Volunteer, and/or the running of the Course and its remit, DGFC reserve the right to suspend the volunteers participation in the Course and if necessary asked to leave the Course. There will be no Payment or and part of, refunded in this instance

7. BEHAVIOUR ON EXPEDITION

(a) The Volunteer acknowledges that the Course aims to obtain useful information to assist the preservation of the natural environment under observation during the Course and that therefore the Volunteer is expected to work under the supervision of the Leaders in a conscientious manner in order to

assist in the compilation of this information.

(b) The Volunteer agrees to abide by the authority of the Leaders and to follow all of their reasonable instructions. (c) If the Volunteer commits any illegal act on the Course or if in the opinion of the Leaders the Volunteer's behaviour is detrimental to the aims of the Course or the safety or welfare of the other Volunteers on the Course, he/she may require the Volunteer to leave the Course within 24 hours notice and no liability on the part of DGFC shall arise whatsoever. (d) If the Volunteer damages, destroys or loses any item of equipment owned by DGFC the Volunteer will be held liable for any costs not recovered through DGFC's insurance.

8. COMPLIANCE WITH LEGAL REQUIREMENTS

a) The Volunteer will comply with all legislation, visa, immigration, customs and foreign exchange regulations if the countries visited on Course. In the event of a contravention by a Volunteer of the laws of the country which the expedition visits, the Leaders shall have the right to require the Volunteer to leave the Course and no liability on the part of DGFC shall arise whatsoever.

9. COMPLAINTS

If a Volunteer wishes to make a complaint and/or claim in relation to the Course, the Volunteer agrees to abide by the following procedure: (i) The Volunteer will ensure that the matter has first been brought to the attention of the Leaders at the expedition site who will seek to resolve the claim and the Volunteer will give DGFC a reasonable time within which to resolve the claim before proceeding further. (ii) If due to an unresolved serious complaint the Volunteer decides to leave the Course before its completion the Volunteer agrees to provide written evidence of the extent of the complaint to the Leaders before departure from the Course. (iii) In the event of a claim for compensation the Volunteer agrees to lodge such a claim with the Project Leaders before the Expedition's scheduled completion date and to provide written evidence of the extent of the complaint to the Project Leaders. (iv) The Volunteer agrees that under no circumstances shall DGFC be liable for damages or compensation arising from that part of any claim related to the individual's assessment of inconvenience, discomfort, disappointment or loss of enjoyment.

10. INSURANCE

(a) The Volunteer agrees to affect personal travel and medical insurance and agrees to be responsible for ensuring that such insurance cover fully meets their personal requirements and the minimum requirements as specified by DGFC. (b) The Volunteer acknowledges the importance of insurance provision in respect of their spouse,

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dependent children and/or relatives and accepts responsibility for assessing their own personal circumstances and arranging additional insurance cover that they personally deem to be necessary. (c) The Volunteer further agrees to ensure that their insurers are aware of the type of travel and work to be undertaken during the Course and accepts the insurance proposal upon such basis. (d) The Volunteer acknowledges and accepts that there is a significant element of personal risk and potential hazard involved in the use of watercraft during the course of the Course and accepts that should they be placed in charge of a watercraft during the Course they do so voluntarily and entirely at their own discretion. Furthermore, the Volunteer agrees to waive all rights of action against DGFC and the Leaders thereof in the event of death and/or personal injury and/or property damage caused to them or by them and arising out of the use of watercraft, and agrees to indemnify DGFC and the Leaders thereof in relation to any claim which may be made against them arising out of any act or omission by the Volunteer.

11. WAIVER

No person save with the express authority in writing of two or more administrators of DGFC has authority or is empowered to waive or vary any of these conditions.

12. INFORMATION

All the information contained in any information published by DGFC relating to the Course is as far as DGFC is aware true and accurate at the time of writing. If any material alterations have to be made or in DGFC's view need to be made before departure in order to maintain the quality of the Course, the Volunteer will be informed.

13. PASSPORT, VISAS, VACCINATIONS, ETC.

The Volunteer must be in possession of a valid passport and all visas, permits and certificates required for the entire duration of the Expedition and must also arrange to obtain whatever vaccinations are normally recommended for the countries through which the Course is scheduled to travel. Any information given by DGFC about healthcare, vaccinations, visas, climate, clothing, baggage, special equipment and other matters is given in good faith but without responsibility on the part of DGFC

14. INTELLECTUAL PROPERTY

(a) All scientific data collected during the Expedition remains the property of DGFC and may be analysed, published and otherwise distributed by DGFC with no prior consultation with the Volunteer. DGFC agrees to acknowledge the contribution by the Volunteer in the collection of scientific data and subsequent analysis if appropriate.

(b) The Volunteer agrees to provide DGFC with copies of reports, articles or other written material arising from the Course and produced by them. No information, reports or other materials whether written or photographic may be published or otherwise distributed without prior consultation with and consent of DGFC. The Volunteer shall retain intellectual copyright over any report or article written by them but must acknowledge the role of DGFC in producing such material.

15. DEFAMATION

The Volunteer agrees not to defame the Leaders or any other members of the Course by any means, whether in print or verbally.