



**INTERNATIONAL GALLIFORMES SYMPOSIUM 2007
CHENGDU & WOLONG, CHINA**

Symposium Programme

SUNDAY 14 OCTOBER 2007

- 1600: REGISTRATION** – LOBBY WANG JIANG HOTEL
1900: DINNER – WANG JIANG CLUB RESTAURANT

MONDAY 15 OCTOBER 2007

- 0930: INAUGURAL SESSION**
- 1040: SYMPOSIUM PHOTOGRAPH FOLLOWED BY TEA & COFFEE**
- 1130: TECHNICAL SESSION 1: INTRODUCTION**
Chair G. R Potts
- 1130: SCIENTIFIC PROGRAMME COMMITTEE CHAIRMAN'S INTRODUCTION -
Stephen J. Browne
- 1145: CONSERVING ASIA'S GALLIFORMES: PROGRESS AND CHALLENGES -
Philip J.K. McGowan
- 1215: AN INTRODUCTION TO RESEARCH AND CONSERVATION OF CHINA'S
GALLIFORMES - Zhang Zhengwang & Zheng Guangmei
- 1245: LUNCH**
- 1400: TECHNICAL SESSION 2: CHINA 1**
Chair Sun Yuehua
- 1400: CONSERVATION HOTSPOTS AND GAP ANALYSIS OF THE GALLIFORMES
IN CHINA – Ding Changqing & Zhang Cheng'an
- 1420: ROOSTING BEHAVIOUR OF BUFF-THROATED PARTRIDGE
TETRAOPHISIS SZECHENYII - Xu Yu, Ran Jianghong, Zhou Xin, Yang
Nan, Yue Bisong & Wang Ying
- 1440: A STUDY OF THE GENETIC STRUCTURE AND MOLECULAR
PHYLOGEOGRAPHY OF THE TIBETIAN SNOWCOCK *TETRAOGALLUS*
TIBETANUS IN QINGHAI-TIBETAN PLATEAU - An Bei, Zhang Lixun,
Ruan Luzhang, Song Sen & Liu Naifa
- 1500: AN INTRODUCTION TO RESEARCH ON CABOT'S TRAGOPAN *TRAGOPAN*
CABOT IN CAPTIVITY – Zhang Yanyun & Zheng Guangmei





1520: TEA & COFFEE

1550: TECHNICAL SESSION 3 CHINA 2

Chair Ding Ping

1550: OCCURRENCE PATTERN OF ELLIOT'S PHEASANT *SYRMATICUS ELLIOTI* IN FRAGMENTED HABITATS – Ding Ping, Zheng Jiawen, Jiang Pingping, Xia Guirong & Xu Xiaojiang

1610: ESTIMATION OF HOME RANGE OF THE REEVES'S PHEASANTS *SYRMATICUS REEVESII*: COMPARING AND SELECTING MODELS BASED ON INFORMATION-THEORETIC APPROACH - Wang Yong, Xu Jiliang, Zhang Zhengwang & Zheng Guangmei

1630: GALLIFORMES IN WUYI SHAN NATIONAL NATURAL RESERVE, JIANGXI, CHINA – Sun Yue, Dong Lu, Chen Songlin, Zhong Yilin, Liang Wei & Zhang Yanyun

1650: FEEDING BEHAVIOR OF CHINESE GROUSE *BONASA SEWERZOWI* AT LIANHUASHAN, SOUTHERN GANSU, CHINA - Wang Jie, Fang Yun, Siegfried Klaus & Sun Yuehua

1710: CONSERVATION OF PHEASANTS AND OTHER BIRDS BY SACRED GROVES IN DAOCHENG COUNTY, SICHUAN PROVINCE, CHINA - Wang Nan

1730: CLOSE

1900: BANQUET HOSTED BY CHINA ORNITHOLOGICAL SOCIETY

TUESDAY 16 OCTOBER 2007

0830: TECHNICAL SESSION 4: LONG-TERM WPA STUDIES

Chair: Keith Howman

0830: WPA'S APPROACH TO CONSERVING GALLIFORMES – John P. Carroll & Peter J. Garson

0900: PARTRIDGES, PANDAS AND PEOPLE: FOREST CONSERVATION AND COMMUNITY DEVELOPMENT IN SOUTHERN SICHUAN, CHINA - Simon D. Dowell, Dai Bo & Roger Wilkinson

0930: TRAGOPANS, DILEMMAS AND OTHER HORNED CREATURES: WHY SHOULD COMMUNITIES CARE? - Malika Virdi

1000: WPA'S PIPAR PHEASANT RESERVE IN NEPAL: A REVIEW OF RECENT DEVELOPMENTS - Suman Sharma, Peter J. Garson, Philip J.K. McGowan & Paras B. Singh

1030: TEA & COFFEE

1100: PARALLEL TECHNICAL SESSION (5A): CONSERVATION BREEDING

Chair: Keith Chalmers-Watson

1100: CAPTIVE GALLIFORMES IN EUROPEAN ZOOS: PRESENT AND FUTURE - Alain Hennache

1120: CONSERVATION BREEDING STRATEGY FOR WESTERN HIMALAYAN PHEASANTS IN HIMACHAL PRADESH, INDIA - Lalit Mohan





- 1140: CONSERVATION BREEDING OF CHEER PHEASANT *CATREUS WALLICHI* AT BLOSSOM, CHAIL PHEASANTRY, HIMACHAL PRADESH, INDIA - Sat Pal Dhiman
- 1200: CONSERVATION BREEDING OF WESTERN TRAGOPAN *TRAGOPAN MELANOCEPHALUS* AT SARAHAN PHEASANTRY, HIMACHAL PRADESH, INDIA - Alam Singh Chauhan
- 1220: HUSBANDRY AND MANAGEMENT OF THE MOUNTAIN PEACOCK-PHEASANT *POLYPLECTRON INOPIATUM* IN ZOO NEGARA, MALAYSIA - Doreen Khoo & Mohd. Ngah
- 1240: RE-INTRODUCTION OF PHEASANT: PAST AND PRESENT IN MALAYSIA - Hasdi Hassan @ Asang & Siti Hawa Yatim

1100: PARALLEL TECHNICAL SESSION (5B): SPECIES ECOLOGY

Chair: Francis Buner

- 1100: HOME RANGE, DAILY MOVEMENT AND SITE FIDELITY OF MALE REEVES'S PHEASANT *SYRMATICUS REEVESII* AT A MANAGED RESERVE IN THE DABIE MOUNTAINS, CENTRAL CHINA - Xu Jiliang, Zhang Xiaohui, Sun Quanhui, Zhang Zhengwang, Zheng Guangmei, & Wang Yong
- 1120: AUTUMN TERRITORIALITY AND MOVEMENTS OF CHINESE GROUSE *TETRASTES SEWERZOWI* AT LIANHUASHAN NATURAL RESERVE, GANSU, CHINA - Siegfried Klaus, Sun Yuehua & Fang Yun
- 1140: ROOST-SITE SELECTION OF LADY AMHERST'S PHEASANT *CHRYSOLOPHUS AMHERSTIAE* - Kang Mingjiang & Zheng Guangmei
- 1200: BREEDING HABITAT SELECTION OF SYMPATRIC TEMMINCK'S TRAGOPAN *TRAGOPAN TEMMINCKII* AND BLOOD PHEASANT *ITHAGINIS CRUENTUS* - Cui Peng & Deng Wenhong
- 1220: ROOST-SITE SELECTION AND ROOSTING BEHAVIOR OF TEMMINCK'S TRAGOPAN *TRAGOPAN TEMMINCKII* IN LAOJUNSHAN NATIONAL NATURAL RESERVE, SICHUAN, CHINA - Cong Peihao & Zheng Guangmei
- 1240: NESTING AND REPRODUCTIVE BEHAVIOUR OF SIAMESE FIREBACK *LOPHURA DIARDI* AND SILVER PHEASANT *LOPHURA NYCTHEMERA* AT KHAO YAI NATIONAL PARK, THAILAND - Tommaso Savini & Niti Sukumal

1300: LUNCH

1430: TECHNICAL SESSION 6: COUNTRY & REGIONAL OVERVIEWS

Chair: Samar Singh

- 1430: NATIVE PARTRIDGES OF TURKEY - Alper Yilmaz & Cafer Tepeli
- 1450: DISTRIBUTION AND STATUS OF GALLIFORMES IN THE UNITED ARAB EMIRATES - Shahid Bashir Khan, Salim Javed & Junid Nazeer Shah
- 1510: MONITORING OF PHEASANTS OF PAKISTAN: WHAT IS THE FUTURE FOR PAKISTAN'S GALLIFORMES? - Rab Nawaz

1530: TECHNICAL SESSION 7: GALLIFORMES REINTRODUCTION

Chair: Wolfgang Grummt





- 1530: CONSERVATION BREEDING OF ENDANGERED PHEASANT SPECIES, WITH PARTICULAR REFERENCE TO POSSIBLE REINTRODUCTION PROJECTS - John Corder
- 1555: THE GALLIFORMES REINTRODUCTION GUIDELINES – Philip J.K. McGowan

1620: TEA & COFFEE

1630: TECHNICAL SESSION 8: POSTER PRESENTATIONS

Introduction: John P Carroll

Conservation Breeding

- AN INVESTIGATION OF THE BREEDING PERFORMANCE OF A CAPTIVE CHUKAR PARTRIDGE *ALECTORIS CHUKAR* FLOCK - Alper Yilmaz & Cafer Tepeli
- STATUS OF PHEASANTS IN INDIAN ZOOS: A CASE STUDY OF DELHI ZOO - Abdul J. Urfi
- CAPTIVE BREEDING OF PHEASANT AT WILDLIFE CONSERVATION CENTRE SUNGKAI, PERAK MALAYSIA - Asa'afar Nizam Bin Asa'ari
- A STUDY OF REINTRODUCED HUME'S PHEASANT *SYRMATICUE HUMIAE* - Chen Weicai & Li Huanhua

Species Ecology

- DIET AND HABITAT USE DURING THE EARLY BREEDING SEASON OF REEVES'S PHEASANT *SYRMATICUS REEVESII* IN HENAN, CENTRAL CHINA - Liu Yang, Sun Di, Dong Lu & Zhang Zhengwang
- POSSIBLE SUBSPECIES DIFFERENTIATION OF COLLARD HILL-PARTRIDGE *ARBOROPHILA GINGICA* AND CONSEQUENCES FOR ITS CONSERVATION - Zhou Fang & Jiang Aiwu
- INCUBATION PATTERNS OF MALE AND FEMALE NORTHERN BOBWHITE *COLINUS VIRGINIANUS* - Gretchen Turner, Joe Burnam, Seth Stapleton, William Palmer & John Carroll
- PROGRESS OF STUDIES ON SICHUAN HILL-PARTRIDGE *ARBOROPHILA RUIPECTUS*, CHINA - Dai Bo & Feng Shenglin
- CHARACTERISATION OF THE DIETS OF THREE QUAIL SPECIES IN THE STATE OF MEXICO, MEXICO - Alejandra Barrios Tavares, Ixchel Marin Bello, Salvador Ibarra Zimbrón, Manuel González Ronquillo, Germán David Mendoza, David García Solórzano, Arturo García Álvarez & María Carolina Vázquez Guadarrama
- CONSERVATION OF THE CRITICALLY ENDANGERED DJIBOUTI FRANCOLIN *FRANCOLINUS OCHROPECTUS* AND ITS HABITAT, THE FORET DU DAY, DJIBOUTI - Clive Bealey, Houssein Rayaleh, Philip J.K. McGowan & Henry Ford
- OBSERVATIONS ON THE COMMON PHEASANT *PHASIANUS COLCHICUS* IN THE ALAZANI RIVER VALLEY, REPUBLIC OF GEORGIA - John P. Carroll, Brant C. Faircloth & Revaz Machaidze
- UNUSUAL NESTING BEHAVIOUR OF THE INDIAN PEAFOWL *PAVO CRISTATUS* - Samar Singh

Country & Regional Overviews

- STATUS AND DISTRIBUTION OF THREATENED GALLIFORMES IN CAMBODIA - Chhum Samnang, Stephen Browne & Sak Ousaphea
- HISTORICAL DEVELOPMENT OF THE INDIAN SUBCONTINENT'S PROTECTED AREA NETWORK AND ITS RELEVANCE TO CONSERVATION OF THE





GALLIFORMES - Natalie E Clark, Elizabeth H Boakes, Richard A Fuller, Philip J.K. McGowan & Georgina Mace

- GALLIFORM CONSERVATION IN NEPAL - Hem Sagar Baral
- DISTRIBUTION OF GALLIFORMES IN SICHUAN, CHINA - Ran Jianghong, Li Feng & Du Beibei

1730: Close

1900: Buffet Dinner

WEDNESDAY 17 OCTOBER 2007

0830: TECHNICAL SESSION 9: CONSERVATION RESEARCH AND STRATEGY

Chair: Brigadier Mukhtar

0830: RE-INTRODUCTIONS, TRANSLOCATIONS AND BENIGN INTRODUCTIONS: POTENTIAL TOOLS IN GALLIFORM CONSERVATION - Myles Lamont

0850: GUIDELINES ON HOW TO REAR AND RELEASE GREY PARTRIDGES *PERDIX PERDIX* FOR POPULATION RECOVERY PROGRAMMES - Francis D. Buner, Stephen J. Browne & Nicholas J. Aebischer

0910: GLOBAL COMMONALITIES IN AGROECOSYSTEM MANAGEMENT: IMPLICATIONS FOR THE MANAGEMENT OF THE GALLIFORMES - Jeffrey J. Thompson & John P. Carroll

0930: CAN SEXUAL SELECTION DRIVE FEMALE LIFE HISTORIES? A COMPARATIVE STUDY ON GALLIFORM BIRDS - Nic Kolm, R. Will Stein, Arne Ø. Mooers, Jan J. Verspoor & Emma J. A. Cunningham

0950 POST EARTHQUAKE RELIEF AND ENVIRONMENTAL REHABILITATION IN THE PALAS VALLEY, PAKISTAN - Mohammad Hanif

1010 HOW WELL IS THE PALAWAN PEACOCK PHEASANT *POLYPECTRON EMPHANUM* AND OTHER KEY SPECIES COVERED BY PROTECTED AREAS? - Neil A.D. Mallari & Stuart Marsden

1030: TEA & COFFEE





1100: PARALLEL TECHNICAL SESSION 10A: ABUNDANCE, DISTRIBUTION AND HABITAT USE

Chair: Siegfried Klaus

- 1100: UNDERSTANDING THE GEOGRAPHICAL RANGE DECLINE OF THE GALLIFORMES - Elizabeth H Boakes, Richard A Fuller, Philip J.K. McGowan & Georgina Mace
- 1120: SPRING CALL COUNT OF SOME GALLIFORMES IN PIPAR PHEASANT RESERVE AND THE ADJOINING SANTEL AREA IN ANNAPURNA REGION IN CENTRAL NEPAL - Laxman P. Poudyal, Naveen K. Mahato, Paras B. Singh, Poorneswar Subedi, Philip J.K. McGowan & Hem S. Baral
- 1140: LANDSCAPE ANALYSIS OF HABITAT AND OCCURRENCE PROBABILITY OF WESTERN TRAGOPAN *TRAGOPAN MELANOCEPHALUS* - Krishnamurthy Ramesh, Philip J.K. McGowan & Qamar Qureshi
- 1200: THE DISTRIBUTION AND ABUNDANCE OF GREEN PEAFOWL *PAVO MUTICUS* IN THAILAND - Wina Meckvichai, Suthatipong Asirapoj, Sawai Wonghonga & Chatchawan Pitdamkham
- 1220: CHARACTERISATION OF THE CONGO PEAFOWL *AFROPAVO CONGENSIS* MICROHABITATS IN THE SALONGA NATIONAL PARK - M. Mulotwa, M. Louette, A. Dudu & A. Upoki
- 1240: HOME RANGE ANALYSIS OF SIAMESE FIREBACK *LOPHURA DIARDI* AND SILVER PHEASANT *LOPHURA NYCTHEMERA* IN KHAO YAI NATIONAL PARK, THAILAND - Niti Sukumal & Tommaso Savini

1100: PARALLEL TECHNICAL SESSION 10B: GENETIC & PHYLOGENETIC STUDIES

Chair: Brant Faircloth

- 1100: GENETIC DIVERSITY AND POPULATION EXPANSION IN GREEN JUNGLEFOWL *GALLUS VARIUS* IN INDONESIA - Sri Sulandari, Victor Mobegi, M. Syamsul A. Zein, Zhao Shengguo, Olivier Hanotte & Han Jianlin
- 1120: GENETIC POPULATION STRUCTURE AND SUBSPECIES RELATIONSHIP OF THE NORTHERN BOBWHITE *COLINUS VIRGINIANUS* IN THE UNITED STATES – Soo Hyung Eo, C. Joseph Nairn & John P. Carroll
- 1140: RELATEDNESS WITHIN AND AMONG NORTHERN BOBWHITE *COLINUS VIRGINIANUS* COVEYS MEASURED USING NUCLEAR DNA LOCI: A PRELIMINARY ASSESSMENT - Brant C. Faircloth, Theron M. Terhune, William E. Palmer, & John P. Carroll
- 1200: INTROGRESSION, ALLELE FREQUENCY, AND GENE FLOW FOLLOWING TRANSLOCATION OF NORTHERN BOBWHITES *COLINUS VIRGINIANUS* IN AN ISOLATED, FRAGMENTED HABITAT: A PRELIMINARY ASSESSMENT - Theron M. Terhune, Brant C. Faircloth, D. Clay Sisson, William E. Palmer, H. Lee Stribling & John P. Carroll
- 1220: CONSERVATION OF RED JUNGLEFOWL *GALLUS GALLUS* IN INDIA – A COLLABORATIVE RESEARCH INITIATIVE - M. Fernandes, Murkesh, S. Sathyakumar, R. Kaul, R.S. Kalsi & D. Sharma
- 1240: POPULATION GENETIC STRUCTURE OF THE RING-NECKED PHEASANT *PHASIANUS COLCHICUS STRAUCHI* BASED ON MITOCHONDRIAL DNA CONTROL-REGION SEQUENCES - Zhang Jiao, Yang Zhisong & Liu Naifa





1300: LUNCH



1430: TECHNICAL SESSION 11: POSTER PRESENTATIONS (INCLUDING TEA & COFFEE)

Introduction: John P Carroll

Abundance, Distribution and Habitat Use

- SURVEY OF CHEER PHEASANT *CATREUS WALLICHI* AROUND DHORPATAN HUNTING RESERVE, WESTERN NEPAL - Paras B. Singh, Laxman P. Poudyal, Suman Sharma, Peter J. Garson & Hem S. Baral
- STUDY OF VEGETATION AND GRAZING IMPACT ON PHEASANTS OF PIPAR IN ANNAPURNA CONSERVATION AREA, CENTRAL NEPAL - Laxman P. Poudyal, Philip J.K. McGowan, Hem S. Baral & Paras B. Singh
- NORTHERN BOBWHITE *COLINUS VIRGINIANUS* HABITAT USE ON ALTERED GRASSLANDS IN FLORIDA, U.S.A. - James A. Martin, William E. Palmer, Tommy C. Hines & John P. Carroll
- ASSESSING THE STATUS OF THE WESTERN TRAGOPAN *TRAGOPAN MELANOCEPHALUS* IN PALAS VALLEY, PAKISTAN - Francis D. Buner
- DENSITY OF GREY JUNGLEFOWL *GALLUS SONNERATII* AT GUDALUR RANGE IN THENI FOREST DIVISION, WESTERN GHATS, INDIA - M. C. Sathyanarayana
- THE STATUS OF THE DISTRIBUTION OF THE GREEN PEAFOWL *PAVO MUTICUS* IN YUNNAN PROVINCE – Han Lianxian, Liu Yueqiang & Han Beng
- THE ABUNDANCE AND HABITAT USE OF GREEN PEAFOWL *PAVO MUTICUS* IN SHUANGBAI KONGLONGHE NATURE RESERVE, CHINA - Liu Yueqiang, Han Lianxian, Xie Yichang, Wen Yunyan & Zhang Rengong
- THE ABUNDANCE OF FOUR GALLIFORM SPECIES IN SICHUAN LAOJUNSHAN NATURE RESERVE, SICHUAN PROVINCE, CHINA - Lu Gang, David Lee, Yang Jie, Philip J.K. McGowan, Ran Jianghong & Yue Bisong
- THE ABUNDANCE OF FOUR PHEASANTS IN MAMIZE NATURE RESERVE, SICHUAN PROVINCE, CHINA - Li Rengui, David Lee, Zhang Xiulei, Philip J.K. McGowan, Ran Jianghong & Yue Bisong

Genetic and Phylogenetic Studies

- A SPECIES-LEVEL PHYLOGENETIC HYPOTHESIS FOR THE PHASIANIDAE - R. Will Stein & Arne Ø. Mooers
- GENETIC DIVERSITY AND DIFFERENTIATION OF GEOGRAPHIC POPULATIONS OF CABOT'S TRAGOPAN *TRAGOPAN CABOTI* - Zhang Jie & Zhang Yanyun
- PHYLOGEOGRAPHIC STRUCTURE OF PRZEVALSKI'S PARTRIDGE *ALECTORIS MAGNA* BASED ON MITOCHONDRIAL CYTOCHROME B AND CONTROL REGION - Yang Zhisong, Yu Hongli, Jin Yuanting, Chao Shengyu & Liu Naifa
- THE EFFECTS OF INTROGRESSIVE HYBRIDIZATION ON POPULATION GENETIC DIVERSITY OF PRZEVALSKI'S PARTRIDGE *ALECTORIS MAGNA* IN NORTH WESTERN CHINA - Liu Naifa & Huang Zuhao
- ECOLOGICAL GENETICS OF PRZEVALSKI'S PARTRIDGE *ALECTORIS MAGNA*: ENVIRONMENTAL FACTORS AND POPULATION GENETIC VARIABILITY CORRELATIONS - Huang Zuhao & Liu Naifa
- PHYLOGENY OF SOME GALLIFORM SPECIES IN CHINA - Wen Longying, Gong Jiawen & Liu Naifa
- GENETIC DIVERSITY OF RING-NECKED PHEASANT *PHASIANUS COLCHICUS* IN EASTERN CHINA BASED ON THE MITOCHONDRIAL CYTOCHROME B GENE - Liu Ying, Zhan Xiang-Jiang, Chang Jiang, Wang Ning, Wang Biao & Zhang ZhengWang





- A PILOT STUDY OF THE POPULATION GENETICS OF BROWN EARED-PHEASANT *CROSSOPTILON MANTCHURICUM* IN THE LULIANG MOUNTAINS - Chang Jiang, Wu Aiping & Zhang Zhengwang
- PHYLOGENETIC POSITION OF THE GENUS *TETRAOPHISIS* AS INFERRED FROM MITOCHONDRIAL AND NUCLEAR SEQUENCES - Meng Yang, Dai Bo, Ran Jianghong, Li Jing & Yue Bisong
- POLYMORPHIC MICROSATELLITES DEVELOPED BY CROSS-SPECIES AMPLIFICATIONS IN BUFF-THROATED PARTRIDGE *TETRAOPHISIS SZECHENYII* - Zhou Xin, Xu Yu, Ran Jianghong, Yue Bisong, Cao Lusha & Li Jing

Methods and Technology

- NOVEL RELEASE TECHNIQUES OF NORTHERN BOBWHITE QUAIL *COLINUS VIRGINIANUS* CHICKS - Randy D. Cass, William E. Palmer & John P. Carroll
- USING CAMERA TRAPS TO ESTIMATE POPULATION DENSITIES WITH UNIDENTIFIABLE INDIVIDUALS: AN EXAMPLE WITH THE GREAT ARGUS PHEASANT *ARGUSIANUS ARGUS* IN SUMATRA - Nurul L. Winarni, Jeffrey J. Thompson, Timothy G. O'Brien, Margaret F. Kinnaird & John Carroll
- MEASURING NORTHERN BOBWHITE QUAIL *COLINUS VIRGINIANUS* PRODUCTIVITY: A HOLISTIC APPROACH - Susan N. Ellis-Felege, William E. Palmer, Shane D. Wellendorf & John P. Carroll

Conservation Research and Strategy

- (32) RESPONSES OF GALLIFORMES TO ANTHROPOGENIC PRESSURES AT BEDINI- ALI, NANDA DEVI BIOSPHERE RESERVE, UTTARANCHAL - Bhattacharya T., Sathyakumar S. & Rawat G.S.

1630: Plenary Session

Chair Dick Potts

1630: THE POLITICS OF BIODIVERSITY - Elliot Morley

1700: SUMMING UP OF THE SYMPOSIUM – Simon Dowell

1730: Close

1930: Banquet hosted by the World Pheasant Association





INTERNATIONAL GALLIFORMES SYMPOSIUM 2007 CHENGDU & WOLONG, CHINA

Workshop Programme

Landscape Ecology Workshop

19th – 20th at Wolong National Nature Reserve, China

Most ecological research explores the species-habitat relationship and the causal factors governing the pattern. Frequently, records of species data obtained at local scale (e.g. points, lines, area, etc.) are related to habitat variables from same locations to explain the relationship. However, the emerging knowledge points to the fact that ecological process and consequent influence on species varies in space (spatial scale), and therefore, it is important to address the ecological issues at varying spatial scales to be able to draw decisive inference on the species. For instance, the ground cover might be an important factor at local scale for determining pheasant population distribution, where as patch size and shape or climate might be important at larger scales. Ecologists are increasingly concerned about the interplay of these multiple factors, and their effect on structuring populations. The concept of landscape ecology and spatial analysis tools (e.g. Remote Sensing and GIS) have become useful in addressing this complex situation, and it is now possible to measure and analyze variables from local to regional or global scales. In addition, the results could be presented in tabular as well as map forms, offering ready option for conservationists and managers.

Through this short course, we aim to provide an opportunity and options for pheasant biologists and conservationists for strengthening their research focus and conservation efforts. The specific objectives include (a) provide an overview of the basic concepts, methods and practical relevance of landscape ecology, (b) hands-on experience in Remote Sensing, GIS and relevant spatial analysis tools, and (c) demonstrate the data collection procedures and analytical options for studying species-habitat relationship, and developing distribution models at landscape level.

The course is proposed for two days (19th and 20th) at Wolong National Nature Reserve, China. The following is the schedule and content of the modules;

- 19th Morning:** Introduction, concepts and theoretical inputs.
- 19th Afternoon:** Training on Remote Sensing, GIS and other spatial analysis software such as IDRISI & FRAGSTATS.
- 20th Morning:** Data collection methods, plotting distribution and abundance information, and extracting variables for habitat models.
- 20th Afternoon:** Species-habitat association analysis and mapping using logistic model and ecological niche factor analysis (ENFA). Inputs for specific research queries related to current and future research projects by the researchers.
- Organizers:** Qamar Qureshi (Wildlife Institute of India) & K. Ramesh (Wildlife Institute of India /World Pheasant Association)

Course type: Lectures and computer lab

Maximum number of participants: 10 - 15





INTERNATIONAL GALLIFORMES SYMPOSIUM 2007 CHENGDU & WOLONG, CHINA

Workshop Programme

Introduction to Occupancy Modelling

19th – 20th at Wolong National Nature Reserve, China

A large proportion of wildlife studies are concerned with the distribution and abundance of species. However, research on the distribution and abundance of wildlife is often plagued by the failure to account for incomplete detectability of individuals or species. The development of occupancy modelling has produced powerful tools for estimating the distribution and abundance of species that can incorporate biases in detection related to site (habitat type, vegetation density, elevation, etc.) and survey (observer, weather, time, date, etc.) covariates. Critical to the use of occupancy modelling is the application of proper study design to allow for the inference of estimates to area of interest as a whole, as well to obtain the desired level of precision. In this workshop we introduce the basics of occupancy modelling by covering its fundamental theory, study design issues related to sample size and precision, and data analysis and interpretation of results.

19th Morning: General introduction; introduction to count statistics; considerations for study design – why?, what?, and how?; sampling effort – resources vs. precision; Sampling schemes – replication in space and/or time.

19th Afternoon

20th all day: By arrangement - discussions with participants about their specific research projects.

Organizers: Jeffery Thompson, Brant Faircloth, Theron Terhune

Course type: Lectures

Maximum Number of participants: 15

