Attachment A

TERMS OF REFERENCE OF IPCC PROJECT ON LAND-USE, LAND-USE CHANGE AND FORESTRY (LULUCF)

In response to the decision of IPCC XVII and related decisions and requests from the UNFCCC, the IPCC will develop Good Practice Guidance (GPG) to ensure that country inventories on LULUCF are neither over- nor underestimated as far as can be judged, and uncertainties are reduced as far as practicable and facilitate the best use of available resources, taking different national circumstances into account. The GPG on LULUCF should ensure that countries use the same criteria as listed in the Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories.

IPCC will base its work, inter alia, on:
- The Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories
- The IPCC 2000 Report on Good Practice Guidance and Uncertainty Management
- Relevant decisions of the COP

In preparing this Terms of Reference, the IPCC has further been guided by the draft decision (L11/Rev 1), paragraphs 3(a) and 3(b). Consistent with this draft decision, a workplan has been developed that provides for completion of this work by COP-9.

The work required has been organised into three technical areas which are briefly summarised below:

- **Source-specific good practice guidance on the 1996 IPCC Guidelines for the requirements of the UNFCCC**: This work is to be undertaken in response to the request of IPCC XVII and several requests from SBSTA, dating back to SBSTA 8. The proposed work is outlined in Chapter 3 of the attached TOC. This would be consistent with the 1996 Guidelines.

- **Elaboration of Methods and Good Practice on Kyoto Protocol Issues**: This section has been considered in response to the draft decision FCCC/CP/2001/L.11/Rev1, paragraphs 3(a) and 3(b), and the decision of the IPCC XVII. The approach is outlined in Chapter 4 of the TOC. For eligible land use, land use change and forestry activities under Articles 3.3 and 3.4 of the Kyoto Protocol and for eligible LULUCF project activities under Articles 6 and 12 of the Kyoto Protocol, the IPCC will elaborate (ie identify and address additional or supplementary features) methods and develop good practice guidance, to estimate, measure, monitor and report changes in carbon stocks and anthropogenic greenhouse gas emissions by sources and removals by sinks required to supplement National Greenhouse Gas Inventory practices for eligible activities.

- **Underlying Issues of Good Practice**: This section responds to the decision of IPCC XVII, and the previous requests of SBSTA. It addresses two key issues. First, an approach to ensure a consistent representation of land areas for use across the source and sink categories, as outlined in Chapter 2 of the TOC. Second, a number of additional cross-cutting issues – including identification of key sources and sink categories, uncertainty analysis, recalculation, QA/QC, and verification are addressed in Chapter 5 of the TOC.

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1 These criteria are: transparency, completeness, consistency, comparability, accuracy and verifiability. These should be applied to inventories of changes in carbon stocks and anthropogenic GHG emissions from sources and removals by sinks.
Chapter 1: Introduction

The report responds to the decision of IPCC XVII (6th April 2001, ITEM (5)B). It provides good practice guidance on how to prepare unbiased LULUCF inventory estimates and reduce uncertainties as far as practicable, while making the best use of resources available. Good practice in LULUCF needs to address characteristic features of the sector, including spatial disaggregation and temporal dynamics, and the requirement to consider carbon stocks and anthropogenic greenhouse gas emissions and removals.

(The structure of the report should be summarised in this chapter.)

Chapter 2: Basis for Consistent Representation of Land Areas

The LULUCF inventory needs a consistent representation of land areas for use across source and sink categories considered. Methodological options include the full spectrum from conventional inventory approaches to remote sensing, GIS based systems and statistical approaches.

2.1 Decision tree for selecting among the methods available, taking account of national circumstances including geographic and ecological circumstances and inventory history. Representative data collection within the chosen framework including treatment of missing data reconstructed as described in 5.3.

2.2 Good practice in the derivation and application of land use change matrices, including issues such as temporary land cover and rotational land use changes. Good practice in the combination data collected at various time scales such as periodic survey and annual census data and remote sensing data.

2.3 Consistency in disaggregation of spatial and temporal subsets of land areas for reporting under the Convention or the Kyoto Protocol.

Chapter 3: LUCF Sector Good Practice Guidance

3.1 Overview: Provision of good practice guidance for Chapter 5 of the Revised 1996 IPCC Guidelines, sections 5A-5E. Guidance is consistent with the 1996 Guidelines, while clarifying certain issues such as attribution of soil carbon, providing guidance on how to manage interlinkages among the subsectors 5A-5E and with other chapters of the 1996 Guidelines, especially Chapter 4 “Agriculture”, whilst avoiding double counting, taking into consideration the experience gained in using the common reporting format tables of the UNFCCC.

This chapter addresses methodological issues and reporting specifically linked to the Revised 1996 IPCC Guidelines. For the sections listed below, good practice should be prepared following the format of the IPCC 2000 Good Practice Report (including discussion of methodological approaches and choice among them, factors, parameters and activity data;

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2 In the 1996 Guidelines, the sector is called LUCF (Land-Use Change and Forestry). LUCF and LULUCF are both used. This document adopts LULUCF except where there is a clear reference to the Revised 1996 IPCC Guidelines, without implying any policy judgement thereby.
completeness and avoiding double counting; development of consistent time series; uncertainty assessment; reporting and documentation; and QA/QC). It should be recognised that there is a need for the good practice to clarify the scope and inter-relationships of particular source and sink categories in the LUCF Chapter of the 1996 Guidelines.

3.2 Changes in Forest and Other Woody Biomass Stocks (IPCC 5A):
   3.2.1 Changes in Biomass
   3.2.2 Changes in Soil Carbon
   3.2.3 Harvested Wood

3.3 Forest and Grassland Conversion (IPCC - 5B)
   3.3.1 Changes in Biomass
   3.3.2 Changes in Soil Carbon

3.4 Abandonment of Managed Lands (IPCC - 5C): Clarification of the scope and description of this sub-category.
   3.4.1 Changes in Biomass
   3.4.2 Changes in Soil Carbon

3.5 CO₂ Emissions and Uptake by Soils (IPCC - 5D)
   3.5.1 Mineral soils
   3.5.2 Organic soils
   3.5.3 Liming

3.6 Others (IPCC - 5E)
   3.6.1 Other non-CO₂ GHG fluxes
   3.6.2 GHG fluxes from flooding and wetland drainage

Chapter 4: Supplementary methods and Good Practice Guidance arising from the Kyoto Protocol

4.1. General Overview: This chapter describes the supplementary methods and good practice guidance specifically linked to the Kyoto Protocol and requiring guidance beyond the Revised 1996 IPCC Guidelines. The chapter gives full consideration to the requirements of Article 3.3, as well as choices made related to Articles 3.4, 6 and 12.

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3 See the last two sentences in the footnote in the Draft Scoping Paper to Address Request 3(d) outlined in FCCC/CP/2001/L.11/Rev.1.
4 This section should cover issues related to forests, plantations, and other land-use (i.e. urban, village forests), all relevant carbon pools (i.e., above- and below-ground biomass, litter, and dead wood), CO₂ and non-CO₂ emissions related to fires, other disturbances, and forest management practices, and provision of any data needed for subsequent consideration under Chapter 4 of this report.
5 Treatment of harvested wood products will be consistent with decisions of the COP.
6 This section should cover all relevant carbon pools, shifting cultivation, and CO₂ and non-CO₂ emissions, and provide any relevant data for subsequent consideration under Chapter 4 of this report.
7 This section needs to reconsider all land use and land use transitions not covered elsewhere (i.e., sections 5A to 5C), linkages to Chapter 4 of the 1996 Guidelines, treatment of above-ground carbon stocks (if non-negligible) and linkage to other sectors, clarification of scope and definition of sub-categories, and utility of separating mineral and organic soils.
8 May be treated here or under other sections (i.e. 3.2 or 3.5)
4.1.1 Identification and stratification of relevant land areas
4.1.2 Estimation of C stock changes and non-CO₂ GHG emissions

4.1.3 SPECIFIC REQUIREMENTS OF THE ACCOUNTING SYSTEM REQUIRED

4.2. Methodological issues related to estimation, measurement, monitoring and reporting of changes in carbon stocks and anthropogenic GHG emissions by sources and removals by sinks resulting from LULUCF activities.

4.2.1 Afforestation and reforestation
4.2.2 Deforestation
4.2.3 Forest management
4.2.4 Revegetation
4.2.5 Cropland management
4.2.6 Grazing land management

1.2.7 Article 6: Additional/supplementary methodological issues related to estimation, measurement, monitoring and reporting of changes in carbon stocks and anthropogenic GHG emissions by sources and removals by sinks resulting from LULUCF activities under Art. 6.

1.2.8 Article 12: Methodological issues related to estimation, measurement, monitoring and reporting of changes in carbon stocks and anthropogenic GHG emissions by sources and removals by sinks resulting from LULUCF afforestation and reforestation including project activities under Art. 12.

Chapter 5: Cross-Cutting Issues

5.1. Identification of key source and sink categories required for reporting and resource prioritisation.

5.2 Uncertainty analysis in the framework of the overall approach chosen.

5.3 Recalculations and reconstruction of missing data using proxy variables for integration into general framework identified under section 2.

5.4 QA/QC including procedures for data collection and archiving taking into account the need for transparency and review.

5.5 Verification Comparison with independent data sources and techniques specific to LULUCF Linkage to international scientific programmes and data sets.
## WORK PLAN FOR THE TASK 1 OF THE IPCC NGGIP-LULUCF PROGRAMME

### GOOD PRACTICE GUIDANCE FOR THE LULUCF

<table>
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<th>Actions</th>
<th>Expected Output</th>
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| 12-14 March 2002| First Authors/Experts Meeting (full scale)  | - To discuss initial draft outline for each chapter of the report, paying special attention to consistency and harmonisation requirements.  
- To explore the availability of science materials  
- To identify expert gaps  
- To assign the writing team | Full consideration of Chapter 2 draft  
Initial consideration of Chapters 3, 4, and 5 | Expanded chapter outlines and listing of key issues for each chapter  
Zero-order draft of chapter 2 |
| 3-14 June 2002   | SBSTA Meeting                               | - To report progress of the work                                                                                                                      |                                                                                                   | Any guidance from SBSTA                                                                                   |
| 10-12 July 2002  | Second Authors/Expert Meeting (full scale)  | - To elaborate chapters 3, 4 and 5.  
- Initial consideration of chapter 1.  
- To check for consistency among chapters  
- To plan for the Third Expert Meeting | Full consideration of chapters 3, 4, and 5 | Zero-order draft of the chapters 3, 4 and 5.                                                        |
| September 2002   | Third Authors/Experts Meeting (full scale)  | - To prepare the first-order draft of the report for governments and experts review  
Drafting of the report | Drafting of the report | First-order draft of the report                                                                      |
<p>| November 2002    | SBSTA Meeting                               | - To report progress of the work                                                                                                                     | Reporting to SBSTA                                                                                     | Any guidance from SBSTA                                                                                   |</p>
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*From July 2002, meetings and governments/experts reviews for Task 2 of the IPCC NGGIP LULUCF programme, “Degradation of forests and devegetation of other vegetation types”, will be held parallel to the work plan of the Task 1, aiming for the finalisation of the report by November 2003.*
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<td>Martina</td>
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* Additional authors were selected in accordance with the IPCC Bureau XXIV decision
LIST OF PARTICIPANTS
First Authors/Experts Meeting: Good Practice Guidance for Land-Use, Land-Use Change and Forestry
12 – 14 March 2002
Steigenberger Hotel Thüringer Hof, Eisenach, Germany

ARGENTINA, REPUBLICA
Dr Ernesto F. VIGLIZZO
Universidad Nacional de Cordoba (CONICET)
INTA, Centro Regional La Pampa
Av Spinetto 785.
P.O.Box 152
6300 Santa Rosa, La Pampa
Tel: (54 29) 54 434 222
Fax: (54 29) 54 434 222
evigliz@ssdnet.com.ar

ARGENTINA, REPUBLICA
Mr Hector Daniel GINZO
FIDNEU
Consejo National de Investigaciones Cientificas y Tecnologicas (CONICET)
Serrano 669
C1414DEM, C.A. Buenos Aires
Tel: (54 11) 4855 7674 ext. 56 / 4783 7467
Fax: (54 11) 48 54 56 02
hdginzo@arnet.com.ar

AUSTRALIA
Dr Simon BARRY
Bureau of Rural Sciences
PO Box E11, Kingston
ACT 2604
Tel: (61 2) 6727 4144
Fax: (61 2) 6727 4687
simon.barry@brs.gov.au

AUSTRALIA
Prof Ian NOBLE  CLA
CRC for Greenhouse Accounting
Research School of Biological Sciences
Australian National University
Canberra ACT 0200
Tel: (61 2) 6125 5092 / 6249 4020
Fax: (61 2) 6125 5095
ian.noble@greenhouse.crc.org.au
noble@rsbs.anu.edu.au

AUSTRALIA
Dr John RAISON
CSIRO Forestry and Forest Products
PO Box E4008
Kingston ACT 2604
Tel: (61 2) 6281 8280
Fax: (61 2) 6281 8312
John.Raison@csiro.au

AUSTRIA
Dr Bernhard SCHLAMADINGER  CLA
Joanneum Research, Institute of Energy Research
Elisabethstrasse 5
8010 GRAZ
Tel: (43 316) 876 1340
Fax: (43 316) 876 91340
bernhard.schlamadinger@joanneum.at

BAHRAIN
Dr Anwar Sheikhaddin Abdu KHALIL
Arabian Gulf University (AGU)
School of Graduate Studies
P.O.Box 26671
Manama
Tel: (973) 239 999 / 239608 / 449081
Fax: (973) 272555 / 274028
anwar@agu.edu.bh
anwar518@batelco.com
BELARUS
Dr Vladimir SAVCHENKO
Ministry of Natural Resources and Environmental Protection of the Republic of Belarus, for land, forest and landscape protection
10 Kollektornaya st.
Minsk, 220048
Tel: (375 17) 2205476
Fax: (375 17) 220 5583
savchenko@tut.by

BOLIVIA
Dr David Cruz CHOQUE
Climate Change Program of Bolivia, Viceminister of Environment, Natural Resource and Forestry Development
P.O. Box 5546, La Paz
Tel: (591 2) 2423497
Fax: (591 2) 2423497
davidcruz@coord.rds.org.bo

BRAZIL
Dr Carlos CERRI  CLA
Centro de Energia Nuclear na Agriculture University of Sao Paulo
Av. Centenario 303-13.416-970
Piracicaba SP.
Tel: (55 19) 3429 4727
Fax: (55 19) 34 29 46 10
cerri@cena.usp.br

BRAZIL
Dr Thelma KRUG  SG
Secretaria de Politicas Científicas e Programas de C&T
Ministerio da Ciencia e Tecnologia
Esplanada dos Ministerios
Bloco E, 2-°andar
70067-900
Brasilia, DF
Tel: (55 61) 317 7612
tkrug@mct.gov.br

BRAZIL
Dr Newton PACIORKNIK  CLA
Ministry of Science and Technology of Brazil
Praia do Flamengo 200 s.101
22210-901
Rio de Janeiro
Tel: (55 21) 2555 0308
Fax: (55 21) 25351266
newton@finep.gov.br

CANADA
Dr Dominique BLAIN
Environment Canada, Pollution Data Branch, Greenhouse Gas Division
PVM, 19e etage
351 boul. St-Joseph
Hull, Quebec
K1A 0H3
Tel: (1 819) 953 6079
Fax: (1 819) 953 3006
dominique.blain@ec.gc.ca

CANADA
Ms Pascale COLLAS
Environment Canada
19th Floor 351 St. Joseph Boul
Gatineau, Quebec
K1A 0H3
Tel: (1 819) 994 0888
Fax: (1 819) 953 3006
pascale.collas@ec.gc.ca

CANADA
Dr Eric DUCHEMIN
DREXenvironnement
2667 rue Knox
Montreal, QC H3K 1R3
Tel: (1 514) 937 5619
drexenv@cam.org
duchemin_eric@hotmail.com
CANADA
Dr Henry JANZEN
Agriculture and Agri-Food Canada
Land Resource Sciences
Box 3000, Lethbridge
Alberta, T1J 4B1
Tel: (1 403) 317 2223 / 327-4561
Fax: (1 403) 382 3156
janzen@em.agr.ca

CANADA
Dr Werner KURZ
Natural Resources Canada
Canadian Forest Service
506 West Burnside Road
Victoria, BC, V8Z 1M5
Tel: (1 250) 363 6031
Fax: (1 250) 363 0775
wkurz@pfc.forestry.ca

CHINA
Prof Erda LIN
Agrometeorology Institute,
Chinese Academy of Agricultural Sciences
12 ZhongGuanCun South Street
Beijing 100081
Tel: (86 10) 6211 9688
Fax: (86 10) 6211 9688
lined@ns.ami.ac.cn
lined@ppi.caas.ac.cn

CHINA
Prof Deying XU
The Chinese Academy of Forestry
Wan Shou Shan
Beijing 100091
Tel: (86 10) 62889553
Fax: (86 10) 62888840
deyingxu@fee.forestry.ac.cn

CHINA
Dr Xiaoquan ZHANG
Institute of Forest Ecology and Environment, Chinese Academy of Forestry
Wan Shou Shan
Beijing 100091
Tel: (86 10) 62889512
Fax: (86 10) 62888840
xiaoquan@fee.forestry.ac.cn

COLOMBIA
Mr Jorge Ignacio DEL VALLE
Departamento de Ciencias Forestales.
Universidad Nacional de Colombia,
Sede Medellin,
A.A. 1779
Medellin
Tel: (57 4) 4309021 / 4307079
Fax: (57 4) 4309079
jidvalle@perseus.unalmed.edu.co

ECUADOR
Mr Julio CORNEJO VARGAS
Ministry of Environment,
Ecuador - Undersecretariat of Environmental Quality
Avenida Eloy Alfaro y Amazonas,
Edificio M.A.G., Piso 7
Quito
Tel: (593 2) 508510
Fax: (593 2) 2508510
jcornejo@ambiente.gov.ec

FINLAND
Dr Markku KANNINEN
CATIE, Costa Rica
P.O.Box 47,
7170 Turrialba,
Costa Rica
Tel: (506 5) 56 1176 / 56 6431
Fax: (506 5) 6 6166 / 56 1533
kanninen@catie.ac.cr

FINLAND
Dr Kim PINGOUD
VTT Processes Finland
P.O. Box 1606,
Tekniikantie 4C
FIN-02044 VTT
Tel: (358 9) 456 5074 / (358 40) 562 7105 (mobile)
FINLAND
Dr Risto SIEVANEN
Vantaa Research Center
Finish Forest Research Institute
PB 18, 01301 Vantaa
Tel: (358 9) 857373
Fax: (358 9) 857361
risto.sievanen@metla.fi

FRANCE
Dr Denis LOUSTAU
Institut National de Recherche Agronomique (INRA BORDEAUX)
Domaine de l'Hermitage
BP 45, F-33611
GAZINET CEDEX
Tel: (33 5) 57 12 28 51
Fax: (33 5) 56 68 05 46
loustau@pierroton.inra.fr

FRANCE
Mr Gérôme PIGNARD
Inventaire Forestier National,
Ministry of Agriculture
Place des Arcades
Maurin
BP 1001
34971 Lattes Cedex
Tel: (33 4) 67 07 80 86 / 84
Fax: (33 4) 67 07 80 91
gpignard@cer.ifn.fr

GAMBIA
Dr Bubu Pateh JALLOW  CLA
Department of Water Resources
7, Maumarr Ghadafi Avenue
Banjul
Tel: (220) 228 216
Fax: (220) 225 009
bubujallow@hotmail.com

GERMANY
Dr Rainer BARITZ
State Forest Research Centre Baden-Wuerttemberg
Wonnhaldestr. 4
79100 Freiburg
Tel: (49 761) 4018117
Fax: (49 761) 4018333
small.baritz@t-online.de (priv.)
baritz@fva.bwl.de

GERMANY
Dr Annette FREIBAUER  CLA
CarboEurope Cluster - European Office,
Max-Planck-Institute for Biogeochemistry
P.O. Box 10 01 64
07701 Jena
Tel: (49 3641) 686 726
Fax: (49 3641) 686 710
afreib@bge-jena.mpg.de

GERMANY
Prof Michael KÖHL
Dresden University od Technology
Wilsdruffer Str. 18
01737 Tharandt
Tel: (49 35203) 381613
Fax: (49 35203) 381632
koehl@forst.tu-dresden.de

HUNGARY
Dr Zoltan SOMOGYI
Forest Research Institute (ERTI), Budapest
Department of Silviculture and Yield
H-1023 Budapest
Frankel L. u. 42-44.
Tel: (36 30) 465 2684
Fax: (36 1) 326 1639
Som9013@helka.iif.hu
h9013som@ella.hu

INDIA
Prof N.H. RAVINDRANATH  CLA
CES, and ASTRA
Indian Institute of Science
Bangalore 560 012
INDONESIA
Dr Rizaldi BOER
Faculty of Mathematics and Natural Sciences, Department of Geophysics and Meteorology
Bogor Agricultural University
Juruan GEOMET, FMIPA IPB
Kampus IPB Baranangsiang
Jalan Raya Pajajaran
Bogor-West Java
Tel: (62 251) 376817
Fax: (62 251) 313384
rboer@fmipa.ipb.ac.id
rizaldiboer@hotmail.com

IRELAND
Dr Kenneth BYRNE
Forest Ecosystem Research Group
Department of Environmental Resource Management, Facultz of Agriculture
University College
Belfield, Dublin 4
Tel: (353 1) 716 7725
Fax: (353 1) 716 1102
kenneth.byrne@ucd.ie

ITALY
Mr Lorenzo CICCARESE
Italian Environment Protection Agency (ANPA)
Via V. Brancati 48
00144 Rome
Tel: (39 06) 5007 2618
Fax: (39 06) 5007 2649
ciccarese@anpa.it

ITALY
Prof' Riccardo VALENTINI
University of Tuscia - DISAFRI
Via de Lellis
01100 Viterbo
Tel: (39 07) 61 357394

JAPAN
Dr Mitsuo MATSUMOTO
Forestry and Forest Products Research Institute (FFPRI)
Department of Forest Policy and Economics
P.O.Box 16, Tsukuba-Norin
Ibaraki, 305-8687
Tel: (81 298) 73 3211 (Ex.641)
Fax: (81 298) 73 3799
machan@ffpri.affrc.go.jp

JAPAN
Dr Toshinori OKUDA
National Institute for Environmental Studies
Laboratory of Tropical Ecology
16-2 Onogawa
Tsukuba 305-0053
Tel: (81 298) 50 2426
Fax: (81 298) 502483
okuda@nies.go.jp

JAPAN
Dr Ryosuke SHIBASAKI
Center for Spatial Information Science, and Institute of Industrial Science
University of Tokyo
4-6-1, Komaba
Meguro-ku, Tokyo 153-8585
Tel: (81 3) 5452 6412
Fax: (81 3) 5452 6414
shiba@skl.iis.u-tokyo.ac.jp
KENYA
Dr Phanuel OBALLA
Kenya Forestry Research Institute
P.O.Box 20412, Nairobi
Tel: (254 154) 32891/2/3 or (254 154) 32541
Fax: (254 154) 32844
kefri@arcc.or.ke
pooballa@yahoo.com

C/o Food and Agriculture Organization (FAO)
Room D-462
Via delle Terme di Caracalla
00100 Rome
Tel: (39 06) 57055526
Fax: (39 06) 57055137
Omar.Masera@fao.org
omasera@ate.oikos.unam.mx

MALAYSIA
Dr Ismail BIN HARUN
Natural Forest Division
Forest Research Institute (FRIM)
Kepong, 52109
Kuala Lumpur
Tel: (60 3) 6279 7000
Fax: (60 3) 6279 7878
ismail@frim.gov.my

MALAYSIA
Mr Samsudin BIN MUSA
Forest Research Institute (FRIM)
Kepong, 52109
Kuala Lumpur
Tel: (60 3) 6279 7000
Fax: (60 3) 6279 7857
shams@frim.gov.my

MALAYSIA
Dr Jenny WONG
Natural Forest Division
Forest Research Institute (FRIM)
Kepong, 52109
Kuala Lumpur
Tel: (60 3) 6279 7212 (DL) / 6279 7373 ext 7212
Fax: (60 3) 6279 7857 / 6279 7878
jlpwong@frim.gov.my
jlpwong@hotmail.com

MEXICO
Dr Omar MASERA
Forest Products Division
Institute of Ecology, National University of Mexico (UNAM)

MOROCCO
Dr Abdelkader ALLALI
Ministry of Agriculture, Rural Development and Forestry
DPV.BP.1387
Rabat
Tel: (212 37) 761747
Fax: (212 37) 761557
allali@mailcity.com

MOROCCO
Dr Tijani MANDOURI
National Center of Forest Research and Experimentation (CNRF)
CNRF BOX 763
Agdal, Rabat
Tel: (212 37) 672547 / GSM (212 65) 70 26 04
Fax: (212 37) 671151
rechfor@iam.net.ma

NETHERLANDS
Prof A.J. DOLMAN
Department of Geo-Environmental Science,
Faculty of Earth and Life Sciences, de Boelelaan
Free University
1085, 1081 HV, Amsterdam
Tel: (31 20) 4447358
dola@geo.vu.nl

NETHERLANDS
Dr Gert-Jan NABUURS
ALTERRA - Green World Research
PO Box 47
6700 AA Wageningen
Tel: (31 317) 477 897
Fax: (31 317) 424988
G.J.Nabuurs@Alterra.wag-ur.nl

NEW ZEALAND
Mr James BARTON
Ministry of Environment
PO Box 10 362
Wellington
Tel: (64 4) 917 7538
Fax: (64 4) 917 7529
James.Barton@mfe.govt.nz

NEW ZEALAND
Dr Peter BEETS
New Zealand Forest Research Institute
Private Bag 3020, Rotorua
Tel: (64 7) 343 5899
Fax: (64 7) 343 5661
peter.beets@forestresearch.co.nz

NEW ZEALAND
Mr Justin FORD-ROBERTSON
New Zealand Forest Research Institute
Private Bag 3020, Rotorua
Tel: (64 7) 343 5899
Fax: (64 7) 343 5661
jfr@forestresearch.co.nz

PHILIPPINES
Prof Rodel LASCO CLA
Environmental Forestry Programme
CFNR, University of the Philippines at Los Banos
College, 4031 Laguna
Tel: (63 49) 536 5314
Fax: (63 49) 536 3206 / 536 5314
rlasco@laguna.net
rdlasco@yahoo.com

POLAND
Dr Wojciech GALINSKI
SILVATICA Research Consultants
Glowna 29
Zabieniec
05-500 Piaseczno
Tel: (48 22) 756 78 54
Fax: (48 22) 756 78 54
wgalinski@polbox.pl

RUSSIAN FEDERATION
Dr Michael GYTARSKY SG
Institute of Global Climate and Ecology (IGCE)
Federal Service of Russia for Hydrometeorology and Environmental Monitoring and Russian Academy of Sciences
20-b Glebovskaya str.,
Moscow 107258
Tel: (7 95) 169 2198 (office)
(7 95) 180 1115 (private)
Fax: (7 95) 160 0831
Mike.Gytarsky@g23.relcom.ru

PAPUA NEW GUINEA
Mr Vitus AMBIA
Papua New Guinea Forest Authority
P.O.Box 5055, Boroko
National Capital District
Port Moresby
Tel: (675) 3277907
Fax: (675) 3254433 / 3277839
vambia@datec.net.pg

PHILIPPINES
Prof Rodel LASCO CLA
Environmental Forestry Programme
CFNR, University of the Philippines at Los Banos
College, 4031 Laguna
Tel: (63 49) 536 5314
Fax: (63 49) 536 3206 / 536 5314
rlasco@laguna.net
rdlasco@yahoo.com

POLAND
Dr Wojciech GALINSKI
SILVATICA Research Consultants
Glowna 29
Zabieniec
05-500 Piaseczno
Tel: (48 22) 756 78 54
Fax: (48 22) 756 78 54
wgalinski@polbox.pl

RUSSIAN FEDERATION
Dr Michael GYTARSKY SG
Institute of Global Climate and Ecology (IGCE)
Federal Service of Russia for Hydrometeorology and Environmental Monitoring and Russian Academy of Sciences
20-b Glebovskaya str.,
Moscow 107258
Tel: (7 95) 169 2198 (office)
(7 95) 180 1115 (private)
Fax: (7 95) 160 0831
Mike.Gytarsky@g23.relcom.ru
THAILAND
Dr Kansri BOONPRAGOB  CLA
Department of Biology
Ramkhamhaeng University
Bangkok 10240
Tel: (66 2) 310 8395 / (66 2) 319 5219
ext.231
Fax: (66 2) 310 8395 / (66 2) 310 8381
kansri@ram1.ru.ac.th
kansri@hotmail.com

UGANDA
Mr Paul DRICHI
Forest Department,
National Biomass Study, Kampala
31 Springs Road,
Kampala
Tel: (256 41) 251779
Fax: (256 41) 251778
nbsfd@imul.com

UNITED KINGDOM / UNDP
Dr Bo LIM
UNDP-GEF
National Communications Support Programme
Room 1607, 304 East 45th St
NY, 10017
USA
Tel: (1 212) 906 5730
Fax: (1 212) 906 6568
bo.lim@undp.org

UNITED KINGDOM
Dr Ronnie MILNE  CLA
Centre for Ecology & Hydrology (Edinburgh)
Bush Estate, Penicuik
Midlothian
EH26 0QB
Tel: (44 131) 445 4343 / 445 8575
Fax:(44 131) 445 3943
rnilne@ceh.ac.uk

UNITED KINGDOM
Dr Jim PENMAN  SG
Department of the Environment, Transport & Regions
Global Atmosphere Division
Room 3/F2
123 Victoria St
London SW1E 6DE
Tel: (44 20) 7944 5225
Fax: (44 20) 7944 5219
Jim.Penman@defra.gsi.gov.uk

UNITED KINGDOM
Prof Keith SMITH
University of Edinburgh, Institute of Ecology and Resource Management (IERM), Darwin Bldg., Mayfield Rd
Edinburgh EH9 3JU
Tel: (44 131) 650 7721
Fax: (44 131) 662 0478
keith.smith@ed.ac.uk

UNITED KINGDOM
Dr Pete SMITH  CLA
Department of Plant and Soil Science
University of Aberdeen
Cruickshank Building
Aberdeen
AB24 3UU
Tel: (44 1224) 272 702
Fax: (44 1224) 272 703
pete.smith@abdn.ac.uk

UNITED KINGDOM
Dr Richard TIPPER
The Edinburgh Centre for Carbon Management Ltd (ECCM)
Tel: (44 31) 666 5070
Fax: (44 31) 666 5055
richard.tipper@eccm.uk.com
UNITED STATES
Ms Katie BICKEL (in the place of Mr Bill Hohenstein)
USDA
Global Change Program Office
Room 112-A, J.L. Whitten Building
1400 Independence Avenue, SW
Washington, DC 20250-3810
Tel (1 202) 720 9978
Fax (1 202) 401 1176
kbickel@oce.usda.gov

UNITED STATES
Ms Barbara BRAATZ
ICF Consulting
1850 K Street, N.W.,
Suite 1000
Washington, DC 20006-2213
Tel: (1 202) 862 1177
Fax: (1 202) 862 1144
bbraatz@icfconsulting.com

UNITED STATES
Dr Linda HEATH
USDA Forest Service
Northeastern Research Station
PO Box 640
Durham, NH 03824
Tel: (1 603) 868 7612
Fax: (1 603) 868 7604
Lheath@fs.fed.us

UNITED STATES
Dr James HRUBOVCAK
USDA-OCE-GCPO
Reporters Building, 300 7th Street, SW
Room 670
Washington, DC 20036-5831
Tel: (1 202) 720 6699
Fax: (1 202) 401 1174
jhrubovcak@oce.usda.gov

UNITED STATES
Dr Linda HEATH
USDA Forest Service
Northeastern Research Station
PO Box 640
Durham, NH 03824
Tel: (1 603) 868 7612
Fax: (1 603) 868 7604
Lheath@fs.fed.us

UNITED STATES
Mr Michael GILLENWATER
Greenhouse Gas Inventory Program
Office of Atmospheric Programs
US Environmental Protection Agency (EPA)
1200 Pennsylvania Ave. NW (MS 6204N)
Washington, D.C. 20460
Tel: (1 202) 564 4092
Fax: (1 202) 565 6673
gillenwater@alum.mit.edu
gillenwater.michael@epa.gov

UNITED STATES
Mr Bill IRVING
US Environmental Protection Agency (EPA)
1200 Pennsylvania Ave. NW
Washington, D.C. 20460
Tel: (1 202) 564 9065
Fax: (1 202) 565 2079
irving.bill@epa.gov

UNITED STATES
Ms Dina KRUGER  SG
US Environmental Protection Agency (EPA)
1200 Pennsylvania Ave. NW (6202J)
Washington, DC 20460
Tel: (1 202) 564 9039
Fax: (1 202) 565 2134
kruger.dina@epa.gov

UNITED STATES
Prof. Keith PAUSTIAN
Department of Soil and Crop Science
Colorado State University
Ft. Collins, CO 80523
Tel: (1 970) 491 1547
Fax: (1 970) 491 1965
keithp@nrel.colostate.edu
UNITED STATES
Dr Ken SKOG
USDA Forest Service
One Gifford Pinchot Dr.
Madison, WI 53705
Tel: (1 608) 231 9360
Fax: (1 608) 231 9508
kskog@fs.fed.us

URUGUAY
Dr Daniel MARTINO
INIA La Estanzuela, Uruguay
GRAS, INIA La Estanzuela
Colonia 70.000
Tel: (598 574) 8000 ext.1498
Fax: (598 574) 8012
martino@inia.org.uy

INTERNATIONAL ORGANISATION

European Commission
Dr Giorgio MATTEUCCI
EC - Joint Research Centre
T.P. 051
I-21020 Ispra (VA),
Italy
Tel: (39 03) 32 78 5808
Fax: (39 03) 32 78 5022
giorgio.matteucci@jrc.it

UNFCCC
Dr Roberto ACOSTA
Martin Luther King Strasse 8
D-53175 Bonn,
Tel: (49 228) 815 1419
Fax: (49 228) 815 1999
racosta@unfccc.de

FAO
Dr Dieter SCHOENE
Forest Products Division
Viale delle Terma di Carnealla
00100 ROME,
Italy
Tel: (39 06) 570 55077
Fax: (39 06) 570 55618
Dieter.Schoene@fao.org

UNFCCC
Mr Claudio FORNER
Martin Luther King Strasse 8
D-53175 Bonn,
Tel: (49 228) 815 1445
Fax: (49 228) 815 1999
cforner@unfccc.int
TASK FORCE BUREAU MEMBER

BRAZIL
Mr José Domingos MIGUEZ
Ministerio da Ciencia e Tecnologia
Esplanada dos Ministerios
Bl."E" 2nd Floor, Room 244
70067-900 Brasilia DF
Tel: (55 61) 317 7523
Fax: (55 61) 317 7657
miguez@mct.gov.br
mlorena@mct.gov.br

FRANCE
Mr Marc GILLET
Mission Interministérielle de l'Effet de Serre
35, rue Saint Dominique
75700 Paris
Tel: (33 1) 42 75 87 17
Fax: (331) 47 53 76 34
m.gillet@mies.pm.gouv.fr

CHINA
Prof Mingxing WANG
Institute of Atmospheric Physics
Chinese Academy of Sciences
Deshengmenwai str.
Beijing 100029
Tel: (86 10) 6237 5280
Fax: (86 10) 6204 8106
wmx@mail.iap.ac.cn

JAPAN
Mr Taka HIRAISHI
National Institute for Environmental Studies
C/o Institute for Global Environmental Strategies (IGES)
1560-39 Kamiyamaguchi
Hayama, Miura, Kanagawa 240-0198
Tel: (81 468) 55 3750
Fax: (81 468) 55 3808
hiraishi@iges.or.jp

CUBA
Dr Carlos LOPEZ
Institute of Meteorology
Apartado 17032
CP 11700 Habana 17
Tel: (537 86) 70721-28
Fax: (537 33) 8010
cmlopezca@yahoo.com

NORWAY
Mr Audun ROSLAND
Norwegian Pollution Control Authority
PO Box 8100 Dep.
N-0032 OSLO
Tel: (47 22) 57 35 47
Fax: (47 22) 67 67 06
audun.rosland@sft.no
LOCAL ORGANISER

GERMANY
Dr. Ulrich KATENKAMP
German Federal Ministry for Education and Research (BMBF)
Referat 422 Globale Umweltaspekte - Global Change
53170 Bonn
Tel: (49 1888) 57 3189
Fax: (49 1888) 57 3601
Ulrich.Katenkamp@bmbf.bund.de

GERMANY
Dr Harald KOHL
Federal Ministry for the Environment
Alexanderplatz 6,
D-11055 Berlin
Tel: (49 30) 28550 2312
Fax: (49 30) 28550 3337
kohl.harald@bmu.de

GERMANY
Dr Helmut KUEHR
German IPCC – Coordination Office
of the Federal Ministries BMBF and BMU
DLR-PT/72
Koenigswinterer Str.522
D-53227 Bonn, Germany
Tel: (49 228) 4492 411
Fax: (49 228) 4492 400 / 490
Helmut.kuehr@dlr.de

GERMANY
Ms Jana WOLFRAM
Janawolf@zedat.fu-berlin.de

IPCC-NGGIP/TSU

Dr Riitta PIPATTI
Institute for Global Environmental Strategies (IGES)
1560-39 Kamiyamaguchi
Hayama, Miura, Kanagawa 240-0198
Tel: (81 468) 55 3750
Fax: (81 468) 55 3808
pipatti@iges.or.jp

Dr Todd NGARA
Institute for Global Environmental Strategies (IGES)
1560-39 Kamiyamaguchi
Hayama, Miura, Kanagawa 240-0198
Tel: (81 468) 55 3750
Fax: (81 468) 55 3808
ngara@iges.or.jp

Mr Leandro BUENDIA
Institute for Global Environmental Strategies (IGES)
1560-39 Kamiyamaguchi
Hayama, Miura, Kanagawa 240-0198
Tel: (81 468) 55 3750
Fax: (81 468) 55 3808
buendia@iges.or.jp

Mr Kiyoto TANABE
Institute for Global Environmental Strategies (IGES)
1560-39 Kamiyamaguchi
Hayama, Miura, Kanagawa 240-0198
Tel: (81 468) 55 3750
Fax: (81 468) 55 3808
tanabe@iges.or.jp
BOG 1: Basis for Consistent Representation of Land Areas (Chapter 2)

Co-Chairs:
Bubu Patch JALLOW (Gambia)  Ronnie MILNE (UK)

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BOG 4b: Activities related to Articles 3.3 and 3.4 of the Kyoto Protocol: Cropland management, grazing land management and revegetation (Chapter 4)

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Roberto ACOSTA (UNFCCC)

NGGIP-TSU:
Kyoko MIW