



## **Programme of the 3<sup>rd</sup> Science and Technology Board Meeting**

**Beijing, China**

**19-22 April 2005**

Organized by:

GOFC-GOLD Project Office  
Edmonton, Canada

and

National Remote Sensing Centre of China,  
Ministry of Science and Technology  
Beijing, China

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## 1 Introduction

The panel for Global Observation of Forest and Land Cover Dynamics (GOFC-GOLD) represents a coordinated international effort working toward the common goal of developing and implementing a suite of securely-funded, ongoing observational programmes. Using an appropriate combination of space borne and near-earth data, these programmes provide timely and consistent information about forests and land cover dynamics worldwide. GOFC-GOLD is a Panel of the Global Terrestrial Observing System (GTOS), sponsored by FAO, UNESCO, WMO, ICSU and UNEP. The GOFC-GOLD Project Office is hosted by Canada. Other contributing agencies include NASA, ESA, START and JRC.

The organizational structure created to implement the GOFC-GOLD programme consists of five elements: a Scientific and Technical Board (STB), a Project Office, an Executive Committee, Implementation Teams, and Regional Networks. This document provides the programme for the 3<sup>rd</sup> STB meeting, 19-22 April 2005, Beijing, China.

### Background of STB

The third STB follows previous meetings: STB-1 June 21-23, 2000, CCRS, Ottawa, Canada ([http://www.fao.org/gtos/gofc-gold/docs/GOLD\\_8.pdf](http://www.fao.org/gtos/gofc-gold/docs/GOLD_8.pdf) ), and STB-2 12th-13th June 2001, ESA/ESRIN, Frascati, Italy ([http://www.fao.org/gtos/gofc-gold/docs/GOLD\\_12.pdf](http://www.fao.org/gtos/gofc-gold/docs/GOLD_12.pdf)). The structure and function of the STB was defined during STB 1 and is summarized below.

The STB is comprised of scientists and technical experts selected from: user agencies, technical agencies contributing substantially to GOFC-GOLD, Implementation Team leaders, and regional networks. Membership is comprised of voting and non-voting members. Voting members are selected from user agencies and technical agencies contributing substantially to GOFC-GOLD. Non voting members include the Executive Director of the GOFC-GOLD Project Office and leaders of the implementation teams (as needed). Members are selected with the advice of the Global Terrestrial Observing System (GTOS) from nominees provided by user agencies and technical agencies. Meetings are held annually at a date and location chosen by the membership.

### Terms of Reference<sup>1</sup> for STB

(<sup>1</sup>Proposed for the GOFC/GOLD Scientific and Technical Board in Beijing China. This represents a modified version of that agreed at the STB in June 23, 2000 to reflect subsequent organizational changes.)

Through close dialog with the GTOS, the STB will ensure continuing progress toward the long-term objective of providing sustained space-based and in-situ observations of forests and other vegetation cover for sustainable management of terrestrial resources and to obtain an accurate, reliable, quantitative understanding of the terrestrial carbon budget.

To accomplish this objective, the STB will:

- Review and recommend revisions to the GOFC-GOLD Strategic Design and other planning documents.
- Review and assess the development and implementation of the components of GOFC-GOLD.
- Recommend revisions and pursue solutions when necessary in relation to the development and implementation of GOFC-GOLD.

- Seek to provide the international coordination necessary for the implementation of GOFC-GOLD in coordination with other international organizations, including members of IGOS-P and GEOSS, and work to build partnerships to achieve common objectives.
- Ensure effective use of existing international mechanisms, including the working groups of CEOS and other components of GTOS.
- Report annually to GTOS.
- By means of reports from the Implementation Teams and Regional Networks, and other sources, articulate and advocate observational requirements for space agencies and in-situ agencies, with particular emphasis on long lead-time requirements, and identify gaps and overlaps in current plans. Ensure the reporting of GOFC-GOLD activities beyond the solely technical, especially in relation to the needs for capacity building.

The STB communicates with the GTOS/GCOS Terrestrial Observation Panel for Climate to ensure that GOFC-GOLD is responsive to the observational requirements for products necessary to understand the terrestrial carbon cycle. The STB communicates with the IGOS Partnership to ensure that GOFC is responsive to the needs of CEOS members and other IGOS Partners. This communications channel provides input from GOFC to CEOS members to enable them to modify their programs to become more efficient in responding to the observational needs identified by GOFC. The STB communicates with each Implementation Team through the team leader, who serves as a non-voting member of STB.

### **3<sup>rd</sup> STB Meeting**

The third STB meeting will be held at Beijing, China from 19-22 April 2005. The Chinese Ministry of Science and Technology (MOST) is acting as co-host. In addition to addressing annual business affairs of GOFC-GOLD, the meeting includes two special events. One is to perform a 5-year review and revision of the GOFC-GOLD Strategy document, which was prepared in 1999 (GOFC-GOLD Report 2). The other is to support, with the Chinese hosts, the initiation of a new GOFC-GOLD regional network for East Asia. Details of the meeting are described below.

## **2 Local Host and Venue**

Ministry of Science and Technology of the P.R. China, Supervisor-Director of the Dept. High & New Tech.

National Remote Sensing Centre of China (NRSCC), Project Manager.

The meeting will be held at the International Xiyuan Hotel, 1. Sanlihe Road, Beijing, China, 100044, Tel: +86 10 68313300, Fax: +86 10 68346681 (Reservation).

(<http://www.xiyuanhotel.com.cn>).

## **3 Organizing Committee and Participants**

GOFC-GOLD Chair, Maryland, USA, John Townshend ([jtownshe@geog.umd.edu](mailto:jtownshe@geog.umd.edu)) and Rhonda Davis ([redavis@geog.umd.edu](mailto:redavis@geog.umd.edu))

GOFC-GOLD Project Office, Edmonton, Canada, Michael Brady ([mbrady@nrca.gc.ca](mailto:mbrady@nrca.gc.ca)) and Murugi Larsen ([mlarsen@nrca.gc.ca](mailto:mlarsen@nrca.gc.ca))

National Remote Sensing Centre of China, Beijing, China, Mengxue Li

([mengxueli@nrsc.gov.cn](mailto:mengxueli@nrsc.gov.cn)) and staff (to be added)

## 4 Overview of Agenda

The GOFC-GOLD meeting at Beijing is comprised of 3.5 days. The meeting will have the following complementary objectives:

- Assess current progress in the work of GOFC-GOLD (1/2 day).
- Present and review a new GOFC-GOLD Strategy document (1/2 day).
- Identify new strategic directions (1/2 day).
- Outline priorities for the Implementation Teams and Regional Networks (1/2 day).
- Discuss possibilities of setting up a new East Asia Regional Network (1 day).
- Hold scientific symposium on the topic of Land Cover Change to which a high level audience will be invited (1/2 day).

A detailed agenda is included in Appendix 1.

## 5 Reports to be Produced

Minutes of 3<sup>rd</sup> STB meeting

2005 GOFC-GOLD Strategy Document

Symposium Report

## 6 Participants

The list of invitees is provided in Appendix 2 and consists of the following groups:

- External board members, panel executive and IT chairs
- Regional Network representatives
- East Asia regional representatives (includes Chinese hosts)
- Symposium participants (presenters and invitees)
- Resource personnel, observers, support staff

## 7 Budget

### Costs

Meeting costs include: air travel to Beijing, local transportation, hotel and meals, meeting venue, communications, visa costs, and document preparation and reproduction.

### Finances

Support for the meeting will be provided by: NRSCC, CFS, CSA, START, FAO and others.

Chinese co-hosts have agreed to provide the meeting venue. They will also provide accommodation and meals for up to 15 international participants. Priority will be given to participants from developing regions.

The Project Office will solicit international travel funds for the 15 participants from GOFC-GOLD's sponsoring agencies.

International participants from government and multilateral agencies will be expected to pay their own way.

The Project Office at the CFS will cover costs for document preparation and reproduction.

Other finances will be pursued by the Project Office.

## **8 Pre-Meeting Preparations**

### **Back-ground reading**

Prior to the start of the meeting, participants are asked to review the following reports:

- 1999 GOFC-GOLD Strategy Document  
([http://www.fao.org/gtos/gofc-gold/docs/GOLD\\_2.pdf](http://www.fao.org/gtos/gofc-gold/docs/GOLD_2.pdf))
- Draft 2005 GOFC-GOLD Strategy Document (to be provided prior to meeting)
- Report of the Land Cover Implementation Team (to be provided prior to meeting)
- Report of the Fire Implementation Team (to be provided prior to meeting)

### **Presentations**

During the meeting there will be several sessions during which selected participants will be invited to make oral presentations. These include

Day 1. A representative of each current Regional Network will have a 15-minute period to present their network's achievements, future plans and needs related to the GOFC-GOLD mandate. A template for presentations is included in Appendix 3.

Day 3. Representatives from each country of the East Asia Regional Network will have a 15-minute period to present their country's capabilities and opportunities to participate in the GOFC-GOLD mandate. A template for presentations is included in Appendix 3.

Day 4. The symposium will include presenters from GOFC-GOLD and the earth observation community in China. Presenters will have a 20-minute period to present a topic of their choice of relevance to the GOFC-GOLD mandate. Each presentation will be followed by a 5-minute question period. A template will not be provided for the presentations at the symposium.

### **Poster Session**

A poster display area will be located near the meeting rooms. As the STB meeting has been designed to maximize working group discussions, posters will provide an opportunity for many of the participants to communicate their work in lieu of a presentation. All participants are encouraged to bring standard-sized posters for display at the meeting.

## **9 Travel and Accommodation**

### **Invitation**

Invitation letters will be issued by the GOFC-GOLD Project Office and the National Remote Sensing Centre of China.

**Visa**

A visa is required to enter China. Copies of the invitations will be provided to the NRSCC, which will process and send documentation to the Chinese Embassies in the respective countries of attendees. The documentation will be required for attendees to apply for and receive a visa from the embassy.

Visa requirements and associated application forms are obtained from the Chinese Embassy in your country. A list of embassy websites can be found at [http://www.travelchinaguide.com/embassy/embassy\\_list.htm](http://www.travelchinaguide.com/embassy/embassy_list.htm)

**Accommodation**

International Xiyuan Hotel, 1. Sanlihe Road, Beijing, China, 100044, Tel: +86 10 68313300, Fax: +86 10 68346681 (Reservation). (<http://www.xiyuanhotel.com.cn>). Approximately 60 rooms have been booked by the local hosts. A confirmation Fax with arrival and departure dates must be sent by fax before 10 April 2005. The registration form is included in Appendix 4.

**10 Appendices**

**Appendix 1. Detailed Agenda of Third STB Meeting****DAY 1 (19 April)**

Assessment of Progress and New Strategic Directions

Chair: John Townshend

9.00 am Opening of Meeting

Welcome (John Townshend, Chinese host)

Overview of the objectives of the 3rd STB

Acceptance of Agenda

9.30 am GOFC-GOLD in the context of GTOS (Berrien Moore)

9.45 am Overview of the work of GOFC-GOLD and assessment of progress (Michael Brady and John Townshend)

10.45 am Break

11.05 am Status of the Regional Networks (5 network presentations x 20 minutes)

1.00 pm Lunch

2.15pm Presentation of new GOFC-GOLD strategy document (John Townshend)

2.45 pm General discussion

3.15 pm Tasking break-out groups on new and emerging issues

3.30 pm Break-out group sessions

- EO continuity-strategy for fine resolution acquisition
- GEOSS and GOFC-GOLD
- GOFC-GOLD role in the GCOS Implementation Plan and the UNFCC
- Other issues

5.00 pm Close meeting for the day

**DAY 2 (20 April)**

Assessment of Progress and New Strategic Directions (continued)

9.00 am Reports from break-out groups

10.30 am Break

10.50 am Tasking break-out groups on implications of strategy

11.15 am Break-out group sessions

- Land Cover Implementation Team (IT)
- Fire Monitoring and Mapping IT
- Regional Networks

- Other ITs and implementation mechanisms

1.00 pm Lunch

2.15 pm Break-out group sessions, continued

3.00 pm Reports from break-out groups (in plenary)

4.00 pm Break

4.20 pm Plenary discussion of strategy document

5.30 pm Close of meeting

### **DAY 3 (21 April)**

Initiation of a GOFC-GOLD East Asia Regional Network  
(meeting to consider the possibilities of establishing a regional network in East Asia)

Co-Chairs: David Skole and Congbin Fu

Session 1: Background and Objectives

9.00 am Welcome, Introductions, Objectives (Congbin Fu, Skole)

9.15 am Brief Overview of GOFC-GOLD (Townshend)

9.30 am Background and Rationale for Regional Networks (Skole, Justice)

10.15 am An Example: SEARRIN (Skole, Chang)

10.30 am Break

10.45 am Capabilities and Opportunities (9 East Asia country presentations-15 minutes)

1.00 pm Lunch

Session 2: Strategic Planning

2.00 pm Preliminary strategy for an East Asian regional network (Skole)

2.30 pm Open Discussion: general strategy (all)

3.30 pm Break

3.45 pm Open Discussion: specific elements and plans (all)

4.30 pm Wrap up, next steps, conclusions (Skole)

5.00 pm Close of meeting

### **DAY 4 (22 April)**

Symposium on Improved Observations of Land Cover and Fire  
for Earth Science and Sustainable Development

Co-Chairs: Chinese official (to be confirmed) and John Townshend

9.00 am Opening remarks

9:15 am Presentations by GOFC-GOLD members

- Overview of GOFC-GOLD (John Townshend, Michael Brady)

- Fire Monitoring and Mapping (Chris Justice, Johann Goldammer, Fire IT Co-chairs)
- Land Cover Characteristics and Changes (Christiane Schmullius, David Skole, Land IT Co-chairs)

10.40 am Break

11.00 am 3-4 Presentations by East Asia participants

- Jiyuan Liu, Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences
- Li Zengyuan, Institute of Forest Resources Information Techniques, Chinese Academy of Forestry
- Shi Peijun, Institute of Disaster and Public Security, College of Resources Science and Technology, Beijing Normal University
- Hiromichi Fukui, Global Security Research Institute, Keio University, Japan (invited)

12:30 pm Conclusions and close of symposium

1.00 pm Lunch

**Appendix 2. List of Invitees**

No.	Name	Representing
	External Board Members	
1	Nominee requested	ESA
2	De Gier, Alfred	Intern. Institute for Aerospace Survey and Earth Science, NL
3	Nominee requested	NOAA, USA
4	Singh, Ashbindu	UNEP
5	Maiden, Martha	NASA, USA
6	Gutman, Garik	NASA , USA
7	Moore, Berrien	Ex-officio: Chair GTOS
8	Latham, John	Ex-officio: Executive Director GTOS
9	Nominee requested	CIFOR, Indonesia
10	Briand, Paul	CSA, Canada
11	Frula, Laura	CONAE, Argentina
12	Virji, Hassan	START
13	Bartalev, Sergey	Academy of Science, Russia
14	Nominee requested	IGBP
15	Nominee requested	EUMETSAT
16	Ake Rosenqvist	JAXA, Japan
17	Nominee requested	CNES, France
18	Ramalinga Gowda	Forest Survey of India
19	Nominee requested	ISRO, India
20	Zhang Guocheng	NRSCC, China
21	Zengyuan Li	Academy of Forestry, China
22	Shao Liqin	MOST, China
23	Jing Guifei	NRSCC, China

No.	Name	Representing
24	Liu Jiyuan	IGSNRR, China
	Panel Executive and IT Chairs	
25	Townshend, John	Chair, GOFC-GOLD
26	Belward, Alan	Vice-Chair, GOFC-GOLD, JRC-EC
27	Brady, Michael	Ex-officio: Exec Director GOFC-GOLD
28	Goldammer, Johan	Ex-officio: Co-chair Fire IT
29	Justice, Chris	Ex-officio: Co-chair Fire IT
30	Skole, David	Ex-officio: Co-chair Land Cover IT
31	Schmullius, Chris	Ex-officio: Co-chair Land Cover IT
	Regional Network (current)	
32	Devers, Didier	OSFAC-Central Africa
33	Dube, Pauline	SAFNET-Southern Africa
34	Desanker, Paul	Miombo-Southern Africa
35	Sharifah, Mastura	SEARRIN-Southeast Asia
36	tbd	South America
37	Tsolmon	Mongolia
38	Krankina, Olga	NERIN -Northern Eurasia
	Resource Personnel	
39	Larsen, Murugi	Project Office, GOFC-GOLD, Canada
40	Mengxue Li	CEOS Secretariat, NRSCC, China
41	Herold, Martin	Land IT Office, GOFC-GOLD, Germany
42	Chao Li	Canadian Forest Service, Canada

No.	Name	Representing
	East Asia Regional Network (new)	
43	Liu Rui	Research Center for Remote Sensing and GIS, School of Geography Beijing Normal University, China
44	Cao Chunxiang	Institute of Remote Sensing Applications, Chinese Academy of Sciences , China
45	Zhu Zhongli	NRSCC, China
46	Congbin Fu	Institute of Atmospheric Physics Chinese Academy of Sciences, China
47	Jianguo Qi	Center for Global Change and Earth Observations, Michigan State University, USA
48	Hikomichi Fukui	Global Security Research Institute, Keio University, Japan
49	Mitsuru Osaki	Graduate School of Agriculture, Hokkaido University, Japan
50	Jun-ichi Kudoh	Center for Northeast Asian Studies, Tohoku University, Japan
51	Yoshio Inoue	Laboratory of Remote Sensing, University of Tsukuba, Japan
52	Kazuhiko Takemoto	Global Environment Bureau Ministry of the Environment/ Japan National Focal Point for the Asia-Pacific Network for Global Change Research (APN), Japan
53	Chang-Yi David Chang	National Taiwan University Taiwan
54	Joon Kim	Dept. of Atmospheric Sciences, Yonsei University, South Korea
55	Nominees requested	North Korea
56	Kachur , Anatoli	Pacific Institute of Geography, Far Eastern Branch of Russian Academy of Sciences, Russia

No.	Name	Representing
57	Gershenson, Valdimir	ScanEx, Russia
	Symposium Participants (presenters and invitees)	
	John Townshend, Michael Brady	GOFC-GOLD
	Chris Justice, Johann Goldammer	GOFC-GOLD
	Christiane Schmullius, David Skole	GOFC-GOLD
	Li Zengyuan	Chinese Academy of Forestry, China
	Liu Jiyuan	Chinese Academy of Sciences, China
58	Shi Peijun	Institute of disaster and public security, Beijing Normal University, China
	Hiromichi Fukui (invited)	Global Security Research Institute, Keio University, Japan
59+	~20 invitees tbd	China

### **Appendix 3. Presentation Templates**

#### **GOFC-GOLD Regional Networks**

The representative of each of the six Regional Networks will have a 15-minute period on Day 1 to present their network's achievements, future plans and needs related to the GOFC-GOLD mandate. A 5-minute discussion will follow each presentation. A suggested template is:

1. Brief overview
2. Report on progress since last meeting – e.g. products
3. Update on recent activities
4. Outline on future plans
5. Constraints of achieving network goals
6. Inter-network interactions

#### **New East Asia Regional Network**

The co-chairs of the Day-3 meeting will invite participants from each East Asia country (Appendix 2) to make a 15-minute presentation on the status of remote and in-situ observations of forest and land cover, including fire monitoring and mapping. A suggested template is:

1. Brief overview of national and regional observations of forest and land cover, including fire monitoring and mapping.
2. Examples of current capabilities and ongoing activities
3. Outline of future plans
4. Constraints to achieving goals
5. Vision or statement of benefits to forming an East Asia regional network and inter-network interactions

**Appendix 4. Hotel Confirmation Form****PLEASE RETURN FORM BY: APRIL 10, 2005**

TO:

CONTACT NAME:

**Mr. Rex Li – Sales Manager**

COMPANY:

DATE:

TOTAL NO. OF PAGES

**Xiyuan Hotel Beijing**(Http: [www.xiyuanhotel.com.cn](http://www.xiyuanhotel.com.cn))

FACSIMILE NUMBER:

TELEPHONE

FAX

+86 10 68346681 68314577

E-MAIL ADDRESS:

E-MAIL ADDRESS:

**lrex@vip.sina.com**

Your reservation will be reconfirmed upon receipt of your faxed reservation.

Please select one:

 *New Booking* *Amendment* *Cancellation*

Guest(s) Name(s)

1.

2.

( in capital letters )

Arrival Date

1.

2.

Departure Date

1.

2.

Arrival Time / Flight No.

1.

2.

Address

Room Type

 Standard Room

USD85

 Executive Room

USD100

 Studio Suite

USD130

Airport Transportation

 Pick Up Service Drop Off Service USD50 net (one way)

Payment

 Cash Credit Card Check**UPON MAKING YOUR RESERVATION, A CREDIT CARD NUMBER IS REQUIRED.** AMEX Visa Master Master Diner's Club JCB Others

Credit Card Number

Expire Date:

Authorized Signature:

- The above rate includes One Daily Breakfast.- **Executive Room includes two Daily Breakfasts**
- The rate is including 15% service charge.
- If you need airport pick up service, please advice. The charge is USD40net one way for max 3 persons.
- Cancellation: Please note one night's cancellation charge will apply if rooms are cancelled after 6pm on the proposed arrival date. Any no-show rooms will also be subject to one night's accommodation charge.

We are pleased to confirm your reservation as requested, Your confirmation number is: #
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## Accommodation Venue

### **Xiyuan Hotel Beijing**

Address: Xiyuan Hotel 1. Sanlihe Road, Beijing, China, 100044

Tel: +86 10 68313300

Fax: +86 10 68346681 (Reservation)

+86 10 68314577 (Business Center – 24 hours)

Airport Pick up and Drop off Service is available.

Hotel Car: USD50 or RMB400 (max. 3 persons). Please advise when you make the reservation.  
Credit card number is required.

### **Conditions of Hotel**

- We will send you a reservation confirmation sheet by fax when we have made your reservation. Please show the sheet to the hotel clerk when you check in at the front desk.
- You may pay your bill by Credit Card or Cash or Traveler's Check. Cost of accommodation is indicated in US dollar. The hotel exchange rate to your domestic currency is USD: RMB=1:8.3.
- The Xiyuan hotel Beijing is pleased to extend the above accommodation rates for use during your proposed event. Subject to availability, these rates will be extended for three (3) days prior and three (3) days post your proposed event dates should delegates wish to extend their stay.
- The following cancellation charge is required if you cancel your application.

If you cancel during the period from seven (7) days to three (3) days before you proposed arrival.	50% of rate for One night stay
If you cancel during the period from three (3) days to one (1) days before you proposed arrival.	70% of rate for One night stay
If you cancel or no-show on the day of you proposed arrival	100% of rate for One night stay

If you have any further questions, please do not hesitate to contact me.

Best regards,

Rex li

Sales Manager

**Appendix 5. Chairman's Report to the 3rd STB of GOFC-GOLD**  
(to be provided at meeting)