



Terrestrial Working Group Meeting

23 April 2015

14:00-17:30

(Lunch 12.00-14.00, Coffee Breaks 16.10-16.30)

Toyama, Japan
Toyama International Conference Centre

Draft Agenda

Participants:

WG MEMBERS PRESENT:

INGIBJÖRG SVALA JÓNSDÓTTIR – ICELAND, CHAIR
WARWICK F. VINCENT - CANADA, VICE CHAIR
TORBEN CHRISTENSEN - DENMARK, VICE CHAIR
ANDREAS RICHTER – AUSTRIA
BIRGIT SATTLER – AUSTRIA
WEI LUO - CHINA
JOSEF ELSTER- CZECH REPUBLIC
MADS FORCHHAMMER - DENMARK
OTSO SUOMINEN – FINLAND
ANTERO JÄRVINEN - FINLAND
THIERRY BOULINIER - FRANCE
KARSTEN PIEPJOHN - GERMANY
JON S. OLAFSSON - ICELAND
RATAN KAR – INDIA
MANISH TIWARI - INDIA
ATSUKO SUGIMOTO - JAPAN
TAKAYUKI NAKATSUBO - JAPAN
YOO KYUNG LEE – KOREA
STEPHEN COULSON - NORWAY
INGER GREVE ALSOS - NORWAY
PIOTR GLOWACKI – POLAND

BENJAMIN VINEGLA PÉREZ – SPAIN
DANIEL SANCHEZ-MATA – SPAIN
VICTORIA PEASE – SWEDEN
JELTE ROZEMA - THE NETHERLANDS
PHIL WOOKEY - UK
DONALD A. (SKIP) WALKER - USA
VLADIMIR ROMANOVSKY - USA

GUESTS AND OBSERVERS:

HIROSHI HAYASAKA – HOKKAIDO UNIVERSITY

WG MEMBER NOT PRESENT:

DIRK WAGNER - GERMANY
WIESLAW ZIAJA – POLAND

SECRETARIAT

YOO KYUNG LEE (EXECUTIVE OFFICER)
NOEMIE BOULANGER-LAPOINTE (IASC FELLOW)
JEFFREY-ROSS (IASC FELLOW)
JOSEFIN LENZ (IASC FELLOW)



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1 OPENING AND REPORTING (14.00-14.10)

1.1 WELCOME AND INTRODUCTIONS

INGIBJÖRG SVALA JÓNSDÓTTIR

1.2 REPORT FROM THE CHAIR

INGIBJÖRG SVALA JÓNSDÓTTIR

1.3 APPROVAL OF THE MINUTES OF THE LAST MEETING

YOO KYUNG LEE

- The minutes of the 2013 meeting is given in ANNEX 1.3

1.4 ADOPTION OF THE AGENDA

INGIBJÖRG SVALA JÓNSDÓTTIR

2 MAIN ISSUES (14.10-16.10)

2.1 REPORTS ON TWG ACTIVITIES

2.1.1 HERBIVORY NETWORK WORKSHOP

INGIBJÖRG SVALA JÓNSDÓTTIR

This one day workshop was held in Finland, Helsinki, on 9 April 2014. Another Herbivory Network Workshop was held in conjunction with Arctic Biodiversity Congress, Trondheim, Norway, on 1 December. The Herbivory network also organised one of the Congress sessions entitled Herbivory impacts on biodiversity and northern livelihoods under changing conditions.

- The Workshop report is given in ANNEX 2.1.1

2.1.2 THE RATIC WORKSHOP

SKIP WALKER

A Rapid Arctic Transitions due to Infrastructure and Climate (RATIC) workshop and topical session was held at the Arctic Change 2014 conference in Ottawa, 8 – 12 December 2014. The RATIC meetings were organized so that

international scientists who have been working independently in several areas of the Arctic on issues related to Arctic infrastructure could network with each other and share their findings. The studies at the Ottawa workshop and topical session documents reported major changes to local social-ecological systems, including alternations to permafrost, landforms, hydrology, vegetation, wildlife, and people's livelihoods. The workshop focused on case studies, mainly in small communities of northern Alaska.

- The Workshop reports are given in ANNEX 2.1.2.

2.2 REVIEW OF IASC ACTIVITIES RELATED TO THE TWG

2.2.1 ONSHORE GEOSCIENTIFIC RESEARCH AND LOGISTICS – THE CASE PROGRAM OF BGR KARSTEN PIEPJOHN

The CASE-program (Circum-Arctic Structural Events) of the Federal Institute for Geosciences and Natural Resources (BGR) in Hannover is the German instrument for geoscientific research of the onshore geology in the Arctic region. The major task of BGR is to solve, how the supercontinent Laurasia broke apart and how the Arctic Ocean opened and the margins evolved.

- Summary of the CASE – program is given in ANNEX 2.2.1

2.2.2 THE CIRCUMBOREAL VEGETATION MAP SKIP WALKER

2.3 OTHER TERRESTRIAL ACTIVITIES EXTERNAL TO IASC INGIBJÖRG SVALA JÓNSDÓTTIR

The agenda item will include brief updates on external activities that could be of interest to the TWG.

2.4 REVIEW OF WG FOCI INGIBJÖRG SVALA JÓNSDÓTTIR

The Scientific Foci of the Working Group had been discussed and agreed upon at the first WG meeting in Potsdam (Germany) in January 2011. Under this

agenda item, the WG is asked to revisit these foci and to discuss possible changes or additions.

2.5 UPCOMING ACTIVITIES

2.5.1 ARCTIC FRESHWATER SYNTHESIS WARWICK VINCENT

A set of session under ICARP III for Arctic Freshwater Synthesis will use the IASC TWG funds to support the participation of 4 ECS in poster, oral and discussion activities.

2.5.2 POLAR AND ALPINE MICROBIOLOGY CONFERENCE JOSEF ELSTER

The 6th International Conference on Polar and Alpine Microbiology is to be held in 6 – 9 Septemeber 2015 in České Budějovice, Czech Republic. This meeting is a continuation of the highly successful meetings previously held in Rovaniemi 2004 (Finland), Innsbruck 2006 (Austria), Banff 20008 (Canada), Ljubljana 2011 (Slovenia) and Big Sky 2013 (USA). The conference will bring together the scientific community for discourse on the latest aspects of cold-living microorganisms and their role in polar and alpine environments. The 2015 conference will again provide an opportunity to share ideas and build research collaborations addressing the latest developments in microbiology in polar and alpine habitats.

2.6 PROPOSED ACTIVITIES

2.6.1 NEW ACTIVITIES/TASKS BROUGHT FORWARD BY THE MEMBERS

Under this agenda item, new suggestions and proposals on WG activities will be brought forward by members of the Working Groups. This will include short presentations followed by a discussion.

2.6.1.1 CATALYSTS FOR TREELINE EXPANSION UNDER GLOBAL CHANGE: RESEARCH SYNTHESIS AND FUTURE PRIORITIES WORKSHOP WARWICK VINCENT

A four-day workshop is proposed to bring together an international group of early-career and expert arctic and alpine treeline researchers with the aim of advancing their understanding of mechanisms driving treeline ecosystem change under climate change. They propose to 1) synthesize the current state of knowledge on disturbance as a catalyst for treeline ecosystem change; 2) synthesize and summarize data collected through the Global Treeline Range Expansion Experiment (G-TREE); and 3) identify the next research priorities and form a research framework for future initiatives in treeline ecosystem research.

- WG request of the workshop is given in ANNEX 2.6.1.1

2.6.1.2 PERMAFROST CARBON NETWORK

VLADIMIR ROMANOVSKY

A Working Group Lead Meeting of the Permafrost Carbon Networks will take place in Flagstaff, Arizona, 11 – 12 May 2015. The upcoming meeting brings together network participants that have been leading syntheses in the last four years and continue to be engaged in new synthesis activities planned over the next couple of years. This workshop is also a key event in engaging new participants to start new synthesis activities that have been identified in previous meetings based on missing gaps and important research areas.

- WG request of the workshop is given in ANNEX 2.6.1.2

2.6.1.3 2ND GTN-P NATIONAL CORRESPONDENTS WORKSHOP ASSOCIATED TO THE 7TH CANADIAN PERMAFROST CONFERENCE

VLADIMIR ROMANOVSKY

This is a follow-up to the Data Management GTN-P Workshop for data providers, users and national correspondents held in November 2011 in Potsdam, Germany. The main topic of the planned 2nd GTN-P workshop associated to the 7th Canadian Permafrost Conference 2015 in Quebec, on 15 – 18 September 2015, will be the GTN-P data quality control and the development of a specific plan to prepare the first GTN-P bi-annual report on the thermal state and the international monitoring quality of the Earth's permafrost areas.

- WG request of the workshop is given in ANNEX 2.6.1.3

2.6.1.4 OPPORTUNITIES TO USE REMOTE SENSING IN BOREAL FOREST/TUNDRA WILDFIRE MANAGEMENT AND SCIENCE

VLADIMIR ROMANOVSKY AND SKIP WALKER



The Interagency Arctic Research Policy Committee (IARPC) Wildfires Collaboration Team (WCT) seeks to convene a workshop on Opportunities to use remote sensing in boreal forest/tundra wildfire management and science. Fire management issues, such as hotspot detection, are shared by temperate zones and reasonable tools have been developed, but new sensors like the CIRC and UNIFORM may offer alternatives.

- WG request of the workshop is given in ANNEX 2.6.1.4

