

1. Attendances

SC members	Shuaib LWASA (SL) - Chair Irasema ALCÁNTARA-AYALA (IAA) Mark PELLING (MP) Djillali BENOUAR (DB) Jörn BIRKMANN (JB) Sálvano BRICEÑO (SB) Anthony OLIVER-SMITH (AOS)	Haruo HAYASHI (HH) S.H.M. FAKHRUDDIN (SHMF) John HANDMER (JH) Virginia MURRAY (VM) Ann BOSTROM (AB) Virginia JIMÉNEZ DÍAZ (VJD) Claudine UWERA (CU)
Ex officio members / Host	Guo Huadong (GH) RADII Liang Dong (LD) RADII Liu Jie (LJ) RADII	Chadia Wannous –UNISDR Gordon McBean (GM) ICSU Maureen Brennan (MB) ICSU
IRDR IPO	Rajib Shaw (RS) – ED	Lucy Lu (LL) – SO
IRDR NCs	Chen Fang (CF) IRDR China Maud Deves (MD) IRDR France	Toshio Koike (TK) IRDR Japan Annegret Thieken (AT) IRDR Germany
IRDR ICoEs	Tom Huggins (TH) ICoE CR Lisa McLaren (LM) ICoE CR David Johnston (DJ) ICoE CR Ailsa Holloway (AH) ICoE REaL Mateugue Diack (MD) ICoE REaL Garimoi Orach (GO) ICoE REaL Susan Cutter (SC) ICoE VaRM Jeffery Lee (JL) ICoE Taipei Frank Thomalla (FT) ICoE TDDR Omar Darío Cardona (OC) ICoE UR&S	Carol Wong (CW) ICoE CCOUC Gloria Chan (GC) ICoE CCOUC Sharon Lo (SL2) ICoE CCOUC Choun-Sian Lim (CL) ICoE SEADPRI-UKM Mohd Khairul Zain Ismail (ML) ICoE SEADPRI-UKM Victor Jetten (VJ) ICoE SDS IDRR Richard Sliuzas (RS2) ICoE SDS IDRR Surya Shrestha (SS) ICoE NEST Nisha Shrestha (NS) ICoE NEST
Invited Guests	Yu Lei (YL) CAS	Laura Satkowski (LS) Future Earth

2. Apologies

SC members	Cui Peng (CP)
IRDR IPO	Liang Fang (LF) – CO Lang Lang (LL)- AO
IRDR ICoEs	ICoE DRHDPI

3. Documentation

Documents prepared for the 17th SC meeting and presentations given during the meeting are available to download from the SC member zone on the IRDR website.

[Members Zone Link](#)

- List of 17th SC meeting participants
- List of 17th SC meeting preparation documents
- List of 17th SC meeting power point presentations

4. Minute of Meeting & Action Point

DAY 1 – Restricted to the SC members, the ex-officio and the IPO

First part was a Welcome and Introduction. To start with, GM delivered a brief welcome speech. RS presented the updates of IPO including (1) The 5th Regional platform for DRR in the Americas (2) Science Technology Plan (3) DBAR Research Strategy (4) Young Scientists Programme and (5) Internet and Social Media Data, followed by comments and feedback from the SC members and others. UNISDR and SC members provided positive feedback to IRDR's effort to support science and technology plan at national level. SC members recommended that designing a periodic system to evaluate the development of science and technology in the countries is important. Additionally, linking IRDR young scientists programme with ICoEs, NC, RC and the working groups will benefit all.

SL presented IRDR strategic plan of action until 2020 and requested SC members to respond to the review report. SC members emphasised that the four working groups should be IRDR's priority. MP led the discussion of IRDR governing structure. After the discussion, a combined science and administrative management organogram was designed and proposed. The governing structure will be finalised after collecting comments from SC members.

Lastly, MP presented the collaboration plan with Future Earth (FE) Knowledge-Action Network (KAN) on extreme events and DRR. The presentation consisted of an agreed approach, content and future activities. ICSU is the key role to facilitate the collaboration among FE, IRDR and World Climate Research Programme (WCRP), with strong support from SC members.

DAY 2 – Open to all (ICoEs and NC)

MP delivered a framing presentation: ICoE Collaboration including vision and proposed actions. For instance, IPO may build a searchable database where local practical partners can link with each ICoE. FT delivered the presentation of new ICoE: Transforming Development and Disaster Risk (ICoE-TDDR). Afterwards 11 ICoE representatives provided their presentation to update their core academic expertise, connections to IRDR research projects and future plans with IRDR. After their presentation, MP delivered a remark to thank all ICoEs for their presentation and welcome the new ICoE to IRDR family; pointed out that ICoE collaboration is the future of IRDR. Furthermore, MP illustrated the strategic orientation and management planning to support ICoE collaboration as well as proposed 4 thematic groups to draft 12-month plans. The break-out groups are (1) Communication strategy (2) Data (3)

Fellowship and Exchange (4) Longitudinal Studies. The notes will be revised and implemented by IPO, SC and ICoEs (Table 1).

IRDR NC- Japan, Science Council of Japan (SCJ) delivered presentations on ‘Global Forum on Science and Technology for Disaster Resilience 2017’. The conference will be held by UNISDR, ICSU, IRDR and SCJ. Specifically, the presentation consisted of (1) updated status of the UNISDR science and technology partnership road map (2) strengthening the role of the science and technology actors for practical implementation of DRR at national levels (3) needs for periodic science synthesis (4) strengthening the ties between the science and technology community and private corporations. Lastly, approaches to the four priorities for action based on the Sendai Framework were addressed.

The date and venue of next SC meeting will be discussed in due course.

5. Minute of Meeting & Action Point

Action points		Whom	Completed
1	SC responds to the Review Report	SC	On-going
2	SC responds to IRDR Communication Strategy	IPO	On-going
3	ICoE Collaboration Plan	SC, IPO	On-going
4	SC responds to IRDR Governing Structure	SC	On-going
5	Date and Venue of 18 th SC Meeting	SC, IPO	On-going

Table 1 – ICoE Collaboration Draft Plan

Communication Strategy
<p>Members: Liu Jie <liujie@radi.ac.cn> Mark Pelling < mark.pelling@kcl.ac.uk> Virginia Jimenez <virginiaj20@gmail.com> Jeffery Lee < JefferyLee@gate.sinica.edu.tw> Carol Wong < wongcarol@cuhk.edu.hk> Choun-Sian Lim < chounsian@gmail.com></p>
<p>The discussion was led by Virginia Jimenez. After discussion, the group comes up with four suggestions as follows:</p> <ol style="list-style-type: none"> 1. We suggest having a discussion with the IPO staff soon to discuss about taking actions to develop an interactive map with geographical distribution of each ICoE. The map will also be loaded with a short introduction to each ICoE (Mark Pelling’s format for the ICoE presentation can be used as general guidelines), with added information either in PDF or PPT format. IPO staff will send the template to each ICoE. The details can be decided later. <p>We suggest that IPO should take the lead to design this interactive map. If IPO will not be able to do that due to technical reasons or it will take long time to do that, we could come to Virginia for help by using the existing website that she is currently developing. This site</p>

shows part of the results of the project: “Identification of existing advances and linkages of the scientific and academic community initiatives with Disaster Risk Reduction (DRR) in Latin America and the Caribbean (LAC)”. The research was financed in 2015 by ICSU-ROLAC and the support of LA RED (The Network for Social Studies on Disaster Prevention in Latin America). The site shows Universities with programs on DRR and Research Centers in LAC and the location of ICoE’s. The information is being updated. The site will be completed at the end of June 2017.

2. We suggest IPO should prepare email mailing list/ discussion group of ICoEs to facilitate the internal (inter-ICoE) communication and information sharing. For information that needs go to a wider audience, IPO can help to post it on the IRDR website or circulate to the IRDR larger network.

3. We suggest, if possible, each ICoE should appoint a focal point in order to have a regular communication with IPO.

4. Considering the current situation, we suggest, if one of the ICoE can have a communication person who is willing to help IPO, it would be very helpful if they could volunteer themselves.

5. More time and expertise is needed to have a proper communication strategy (or to revise the existing one), in order to add more elements and not just the web page for ICoE’s.

Data

Members:

Liang Dong: liangdong@radi.ac.cn

Chen Fang: chenfang@radi.ac.cn

Mohd Khairul Zain Ismail: zainkhairul@ukm.edu.my zainkhairul@gmail.com

Claudine Uwera : claudine.uwera@gmail.com

Djillali Benouard dbenouar@gmail.com, dbenouar@usthb.dz

SHM Fakhruddin smfwater@gmail.com, BFakhruddin@tonkintaylor.co.nz

John Handmer john.handmer@rmit.edu.au

Susan L. Cutter scutter@sc.edu

Richard Sliuzas r.sliuzas@utwente.nl , risli1126@gmail.com

Yu Lei leiyu913@gmail.com

Virginia Murray Virginia.Murray@phe.gov.uk

Aim of session to determine what our IRDR group might contribute over the next year, reflecting that we will hear much more on data at the Global Platform. To do this a brief summary of the current status of IRDR contribution and the UNISDR indicators shared (resources listed below) and with discussion the following were actions that could be undertaken

- Consider sharing Sendai Framework indicators and data research – a few possible conferences that might be of value to IRDR DATA group

Richard recommended:

- Sep 2017: Geo-Human Planet Forum, [RVS (ITC)] <https://www.utwente.nl/en/itc/hpi-forum/> to be held at University of Twente, Faculty ITC in the Netherlands.

- Mar 2018: World Urban Forum – disaster section, [RVS (ITC)]
<https://unhabitat.org/kuala-lumpur-to-host-world-urban-forum-in-2018/> . I also spoke to Dan Lewis of UN-Habitat about this at the Land use planning and DRR session on Friday. He is very interested to enter a dialogue about activities we could lead/support at the WUF meeting. dan.lewis@unhabitat.org
 Other meetings include:
 - the International CODATA 2017 Conference, “Global Challenges and Data-Driven Science” 8-13 October 2017, Saint-Petersburg, Russia.
 The purpose of the conference is to explore the fundamental issues relating to the availability, (re-)use and scientific analysis of data that relate to the most significant contemporary global challenges – IRDR has been asked to be a co-sponsor
 - Science Council of Japan/UNISDR/ICSU/IRDR conference on 23-25 November
 - Bapon: Assess of existing open database for disasters eg. Em-dat and Europe. Whether they can fulfill the indicators for SFDRR. Hope to receive funding to carry out more comprehensive study.
 - Khairul: Preparedness review of country’s fulfill of SFDRR indicator; Malaysia is identify what training is required, especially for government officers, to fulfill SFDRR indicators.
 - John: Australia economic data and its potential linkage to disaster data.
 - Claudine: Rwanda have the project on disaster capacity building in terms of document data related to disasters.
 - Djillali: database on past earthquake disasters but ongoing concern about cascading risks and how to cunt disasters
 - Susan – volunteering to review but also working on many data mechanisms and OUP publication
 - Fang Chen, Dong and Lei are working on One Belt and One Road data and with Bapon and VM on IRDR and CODATA
 - Next Generation Disaster Data Infrastructure
 - Call for papers in Special Issue of Journal of China Scientific Data on Historical Datasets for Disaster Mitigation and Research
 - Bapon and Virginia are involved with UNISDR\IRDR development being considered on Essential Reading for indicators

Fellowship and Exchange

Members:

Jörn Birkmann (joern.birkmann@ireus.uni-stuttgart.de)
 Ann Bostrom (abostrom@uw.edu)
 Maud Devès (deves@ipgp.fr)
 Ailsa Holloway (ailsaholloway@sun.ac.za)
 David Johnston (David.Johnston@gns.cri.nz)
 Sharon Tsoon Ting Lo (sharon.lo@cuhk.edu.hk)

We also discussed guiding principles (see below) and touched on national platforms.

Notes on Activities:

- Help IPO develop online support for ICoE information exchange on short courses/workshops/summer institutes (and possibly internships). ICoEs will share information (through an online template) about: summer schools, short courses and workshops, and internships. Template on IPO website will tentatively include:

- The title of the short course/summer institute/ workshop/internship,
- When the course/workshop/internship occurs,
- Who is hosting the opportunity,
- Eligibility (any requirements for or limitations on participation) and link to application criteria and info,
- Brief description of relevance for IRDR,
- Deadlines for applications
- The number of spots available,
- URL with link to a description of the content of the course/workshop
- Ask ICoEs to explore opening all currently offered IRDR ICoE short courses to visitors, including non-funded visitors...
- As a statement of principle: All ICoEs should build into future funding budgets for fellowships and exchanges wherever possible.
- Seek funding for a PhD exchange fellowship on disaster risk reduction and resilience (Rockefeller foundation --)? Within two years there will be at least 5 PhD programs on DRR in Africa (complex risk environment, great for field studies), but these are not funded. Taipei helped fund the NZ WSSF.. There are existing potentially relevant funding opportunities, such as IPCC stipends...
- Activity: Apply for funding for PhD exchanges or fellowships by the end of the year
- Funding for a PhD exchange fellowship on disaster risk reduction and resilience (Rockefeller foundation --)? Ailsa noted that within two years there will be at least 5 PhD programs on DRR in Africa (complex risk environment, great for field studies). Taipei helped fund the NZ World Social Science Fellows program at NZ ICoE. There are existing potentially relevant funding opportunities, such as IPCC stipends...
- Would formal academic ties help, such as formal MOUs between ICoE universities?? – would that open up funding opportunities? -World Universities Network...
- Activity: Hold two Skype meetings on PhD fellowships, exchanges, internships.. to develop a proposal for funding IRDR PhD (fellowships or exchanges), and consider including/encompassing internships (Tom’s suggestions), willingness to support internships.
- Explore whether formal academic ties would help, such as formal MOUs between ICoE universities; would that open up funding opportunities? (how many are members of the World Universities Network, already, for example)
- Consider developing an IRDR Annual Program of courses

Measurement (specific targets – 12 month goals):

1. Share short course information - set up ICoE info exchange on this by the end of the year
2. Two skype calls to coordinate applying for funding for IRDR joint PhD exchanges and fellowships (fellowships structured, exchanges less formally structured – maybe just working space and involvement in programs), and look into developing a directory of doctoral students working in DRR) on the skype calls.
3. Apply for funding for an IRDR ICoE joint PhD program of exchanges and/or fellowships

Leadership: Jörn will organize the skype calls, leadership to be clarified.

Longitudinal Studies

Members:

Irasema Alcántara-Ayala irasema@igg.unam.mx

Shuaib Lwasa shuaiblwasa@gmail.com

Anthony OLIVER-SMITH aros@ufl.edu

Lisa McLaren lisa.mclaren@gw.govt.nz

Victor Jetten v.g.jetten@utwente.nl

The purpose of a longitudinal study (LTS) is to test the methodology of FORIN and show for a situation the core problem of vulnerability and all its controlling factors and drivers. However this is not only meant as a historical/cultural/economic analysis of the problem, but continues to investigate possibilities for solutions (scenarios) in the current context. FORIN has been tried and executed several times but not always to sufficient depth. The purpose is also to go beyond the immediate focus on vulnerability only in relation to a major disaster but also to show that vulnerability, and therefore resilience, to disasters should be part of mainstream thinking on socio-economic development, and spatial planning. FORIN may be best shown with a comparative study, to highlight what the added value is when using the FORIN approach.

Approach:

- Make a brief questionnaire that highlights what kind of study area database we are looking for, a rich spatial database, with both hazard and vulnerability data. In depth knowledge of the situation is needed, for the historical, policy and political context of a disaster area.
- Send a questionnaire to each ICoE to have an inventory of what exists within the IRDR family.
- Select from these one or two cases, for instance with a large disaster affecting everybody (such as the Nepali earthquake), or a situation with annually recurrent hazards of lower magnitude, affecting poor communities (such as for instance Kampala or Dar es Salam flooding situations).
- From the ICoE that are educational institutes, see if the research phase of MSc students can be focused on this exercise. Most Universities have a 6 month (equivalent to 30EC) research phase. We have to look if these research phases can be synchronized between the institutions and collect one or two teams of students to do an in depth FORIN analysis. These teams should be multidisciplinary and multicultural, with for instance hazard modelers, urban planners, governance experts, anthropologists, GIS and remote sensing experts and whatever other specializations available needed in a FORIN analysis.
- The student group(s) are supervised by several members of the IRDR community, and they conduct a group analysis. Results have to be streamlined with the academic requirements of the home institutes.
- The group reports on both the execution and the outcome to the IRDR community at a suitable occasion, both on the content of the analysis, but also in a critical report on the FORIN procedure itself (so a critical attitude is needed).
- Financially the execution may not be very costly, and can be in part financed by the universities through their regular research programmes. Possibly individual scholarships can be obtained for some. Additional costs may be incurred when the group reports at an IRDR meeting, or even a larger event if this is possible (it is more interesting to listen to a young scientist than to listen to an old politician).

ITC is willing to take the first steps in collecting and identifying viable case studies within the ICoE. We do need help in looking at them from a FORIN perspective, by the design team of FORIN.