



futureearth

Research. Innovation. Sustainability.

Assembly 報告

Future Earth Assembly, June 12-13, 2024

Helsinki, Finland

春日文子

Ria Lambino

日本学術会議フューチャー・アースの推進と連携に関する委員会（
第26期・第3回）令和6年9月6日

2024 Organizing Committee



Organizing Committee

- Cornelia Krug (Assembly Co-chair/bioDISCOVERY)
- Kristie Ebi (Assembly Co-chair/Health KAN)
- Anik Bhaduri (Asia Regional Committee)
- Stephane Blanc (Global Hub Funder- France)
- Semeena Shamsudheen (ILEAPS)
- Hannah Liddy (AIMES)
- Ariane de Bremond (GLP)
- Xiaoyu Fang (FE Coasts)
- Herbert Mba Aki (LMIC/ECR)
- Giles B. Sioen (Future Earth Global Secretariat)
- Ria Lambino (Future Earth Global Secretariat)
- Fumiko Kasuga (Future Earth Global Secretariat)
- Jakob Lundberg (Future Earth Global Secretariat)
- Wendy Broadgate (Future Earth Global Secretariat)

Secretariat support Team

- Sophie Hebden
- Unn Rasmussen
- Susanna Dobrota
- Giles B. Sioen
- Ria Lambino
- Fumiko Kasuga
- Jakob Lundberg
- Wendy Broadgate
- Cecilia Andersson
- Lisa Jacobson

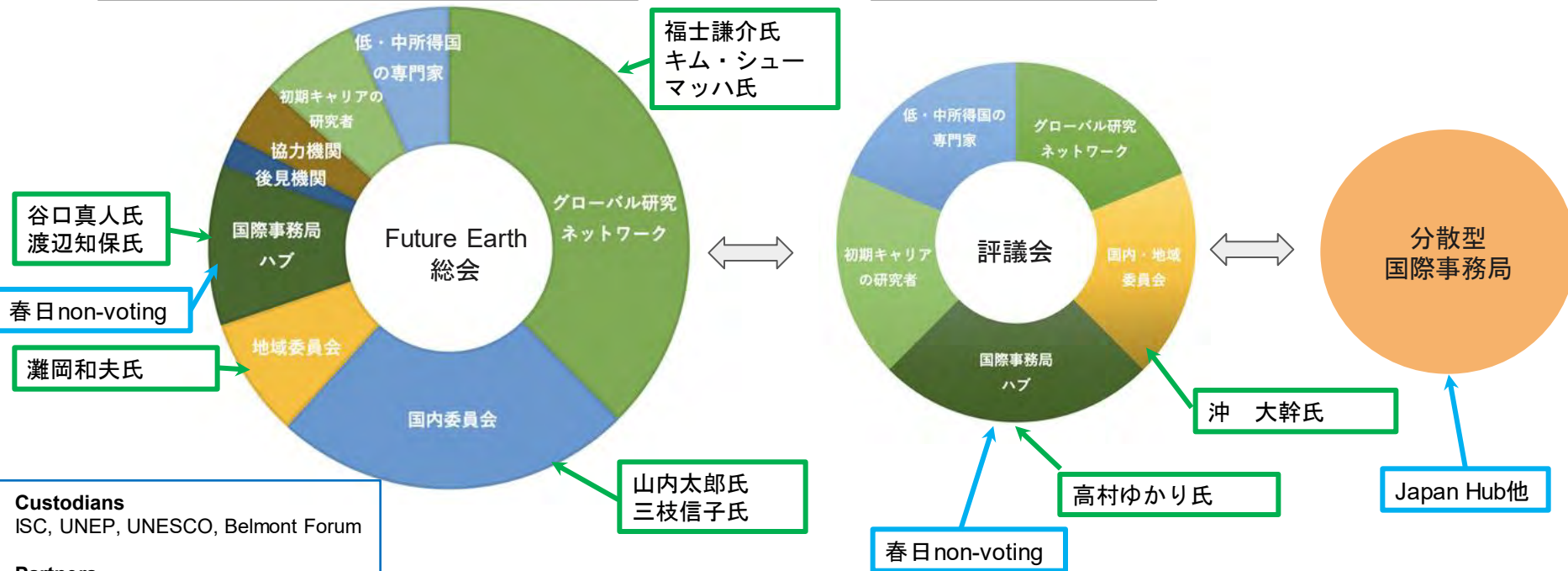


1. To develop an integrated transdisciplinary research agenda to address pressing global issues (Day 1).
1. To review and recommend updates to the Terms of Reference of its Governance (Day 2).
1. Initiate the strategic direction Future Earth should pursue in the coming years, beyond the [2025 vision](#) (Day 1 & 2).

Future Earthの新ガバナンス体制（2021年より）

活動方針の決定、評議会委員の選出

日常的な意志決定



各国際事務局ハブから拠出金：日本は文部科学省からの国際拠出金

2024 Future Earth Assembly Agenda Overview



Wednesday, 12 June

9:00 (Hybrid: zoom link)

- Opening Remarks
- Plenary keynotes
- Plenary Panel

11:15 -11:45 Coffee break (2nd floor & room 115 on 1st floor)

- Breakout Rooms 1: Framing discussions

12:30 -13:30 Lunch (2nd floor & room 115 on 1st floor)

- Breakout Rooms 2: World Cafe

14:50 - 15:20 Coffee break (2nd floor & room 115 on 1st floor)

- Breakout Rooms 3: Clustering, linkages
- Reporting Back and Plenary Discussions
- Summary of the day

17:45 - 19:00 Posters and mingling (2nd floor)

19:15 Buffet Dinner (Lulus, address on dinner ticket)

Thursday, 13 June

8:30 (Hybrid: zoom link)

- Opening Remarks
- Address from Custodians
- Highlights of Future Earth Community
- Strategic Cross-cutting Activities Coordinated by Future Earth Secretariat

09.55-10.25 Coffee break (3d and 2nd floor)

11:00-12:00 Breakouts Round 1

12:00-13:00: Lunch Break (3d and 2nd floor)

13:00-14:00: GRN Review

14:00 - 14:40 Breakouts Round 2

14:40 - 15:00 Coffee Break (3d and 2nd floor)

15:00 - 16:45 Plenary Session

16:45 - 17:00 Summary and Closing

Keynotes: Transdisciplinary Science to Address Joint Planetary Crisis



Towards a safe and just space for a resilient planet and well-being for all
Joyeeta Gupta, University of Amsterdam and IHE Delft Institute for Water Education, the Netherlands; **Earth Commission, Earth Systems Governance**



The role of society in extreme events: what do we need to know?
Sirkku Juhola, University of Helsinki, Finland; **Risk Knowledge Action Network; Future Earth Governing Council**

Panel: Transdisciplinary Science to Address Joint Planetary Crisis



Linwood Pendleton, Université de Bretagne Occidentale; **Ocean Knowledge-Action Network**

Norichika Kanie, Keio University, Japan; **Earth System Governance**



Joyeeta Gupta, University of Amsterdam and IHE Delft Institute for Water Education, the Netherlands; Earth Commission; **Earth System Governance**

Anthony Capon, Monash Sustainable Development Institute; **Health Knowledge-Action Network**



Henrik Larsen, European Environment Agency, Sustainability Transitions Program

Breakouts



Room 203: Extreme events and societal impacts

Lead: Anik Bhaduri

Marie-France Loutre, Kabir Rasouli, Sirkku Juhola, Semeena Shamsudheen, Glenn Fernandez



Room 204: Bending the curve on biodiversity loss

Lead: Cornelia Krug

Sibylle Schroer, Pallavi Saxena, Ariane de Bremond



Room 205: Health risks of disruptions to Earth's physical systems

Lead: Kristie Ebi

Taro Yamauchi, Akira Sai, Ramia Al Bakain, Bo Su



Room 206: Advancing Sustainable Development Beyond the SDGs

Lead: Herbert Mba Aki

Linwood Pendleton, Georgina Guillen-Hanson, Ngozi Oguguah, Ajibola Akanji, Martin Ramacher, Xiaoyu Fang, Kaisa Korhonen-Kurki, Langley DeWitt, Lord Offei-Darko, Kalpana Chaudhari, Kim Schumacher, Joon Kim



Assembly 2024: Scientific Themes and Direction

Assembly members worked in themed breakout groups to identify critical transdisciplinary science questions and promote cross-entity collaborations for new scientific syntheses and initiatives.

- Contents from Day 1 thematic breakouts inform future activities and the development of a Future Earth science agenda. Breakout leads will continue to work with volunteers from Future Earth entities to develop reports or manuscripts from the sessions.
- Capacity to synthesize, communicate science and collaborate with policymakers towards transformations should be strengthened. The recently submitted research agenda on climate and biodiversity to the European Commission and the 10 new insights in climate science were highlighted as successful examples.

Future Earth Assembly: Helsinki, Finland 2024

- Participants: **100** on site & **15** online
- Led by chairs Cornelia Krug (BioDISCOVERY) and Kristie Ebi (Health KAN). Organised with **representatives from the networks**.
- Strokes for scientific integrated agenda prepared
 - Extreme events and societal impacts
 - Bending the curve on biodiversity loss
 - Health risks of disruptions to Earth's physical systems
 - Advancing Sustainable Development Beyond the SDGs
- Critical report backs and recommendations for the Governing Council



Photo credit: Jere J. Aalto



その他の情報



10 NEW INSIGHTS IN CLIMATE SCIENCE

気候変動について伝えたい、10の重要なメッセージ

2023/2024

futureearth

The Earth League

WCRP

概要	5
はじめに	9
Insight1 1.5℃目標のオーバーシュートは避けられない状況になりつつある。オーバーシュートの機会と期間を最小限に抑えることが必要不可欠である。	13
Insight2 パリ協定の目標を達成するには、迅速で計画的な化石燃料の段階的な廃止が必要である。	16
Insight3 二酸化炭素除去(CDR)を必要とされる規模にするため、幅広い政策が必要である。	19
Insight4 自然の炭素吸収源に過度に依存するのは危うい戦略である。将来の貢献度は不確かである。	22
Insight5 気候と生物多様性の非相関性は相互に関連しているため、統合的なアプローチが必要である。	25
Insight6 複合現象は気候リスクを拡大させ、その不確実性を増加させる。	28
Insight7 山岳氷河の縮小が加速している。	31
Insight8 気候リスクのある地域において移動が難しい状況が拡大している。	34
Insight9 正統な規範を有する手法の導入により、より効果的な気候変動適応が可能になる。	37
Insight10 フードシステムの改革は公正な気候変動対策に貢献する。	41

年次報告書 2023-24

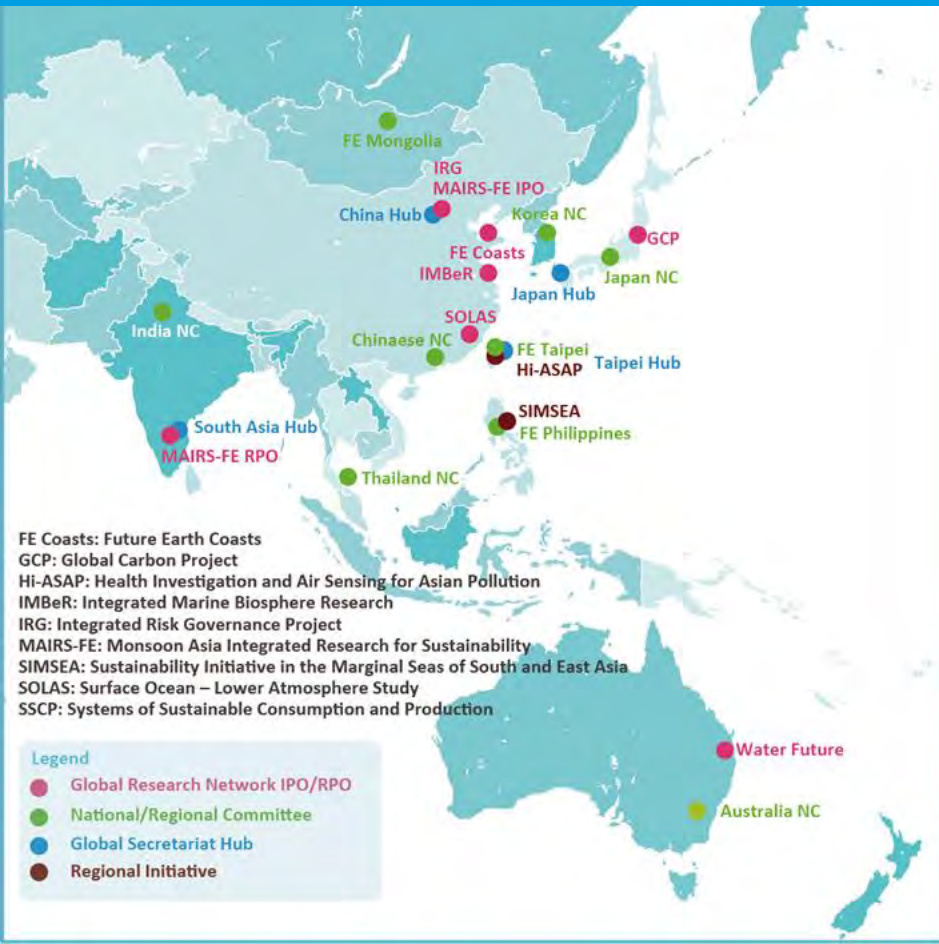
Future Earth
国際事務局日本ハブ

futureearth
Research. Innovation. Sustainability.

<https://drive.google.com/file/d/1KZJX1hmAHwLW1vqLPJZc0b5ASZa9vEZb/view>

<https://japan.futureearth.org/home/about-us/japan-hub/>

Future Earth in Asia - national and local structures



Launched in Seoul, Korea on 19 October 2023

Future Earth Asia Regional Committee

- Provide strategic direction for Future Earth in Asia,
- Promote Future Earth network and collaborative research in Asia,
- Ensure regional needs and priorities are represented in Future Earth's agenda,
- Support effective coordination, alignment, and integration of local, regional, and global communities.



Future Earth Asia Regional Committee

ISC Science Mission Asia Regional Program



Pilot Science Mission: Meta-Network Hub for SDGs in Asia (Meta Hub Asia)

- provide ***policy-relevant options*** and integrated ***risk assessments*** to aid landscape planning, with an emphasis on ecosystem and biodiversity complementarity,
- ***help design policies that will enhance community resilience*** to climate change, restore degraded ecosystems, and mitigate environmental threats,
- ***Fill critical gaps in SDG monitoring and evaluation*** through data integration and generation.



International
Science Council