



Scientific and Technical Advisory Panel

Report to 43rd Meeting of the GEF Council

Thomas E. Lovejoy

Chair, GEF-STAP

Biodiversity Chair

Heinz Center for Science, Economics, and the Environment

Scientific and Technical Advisory Panel



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Outline of the Report

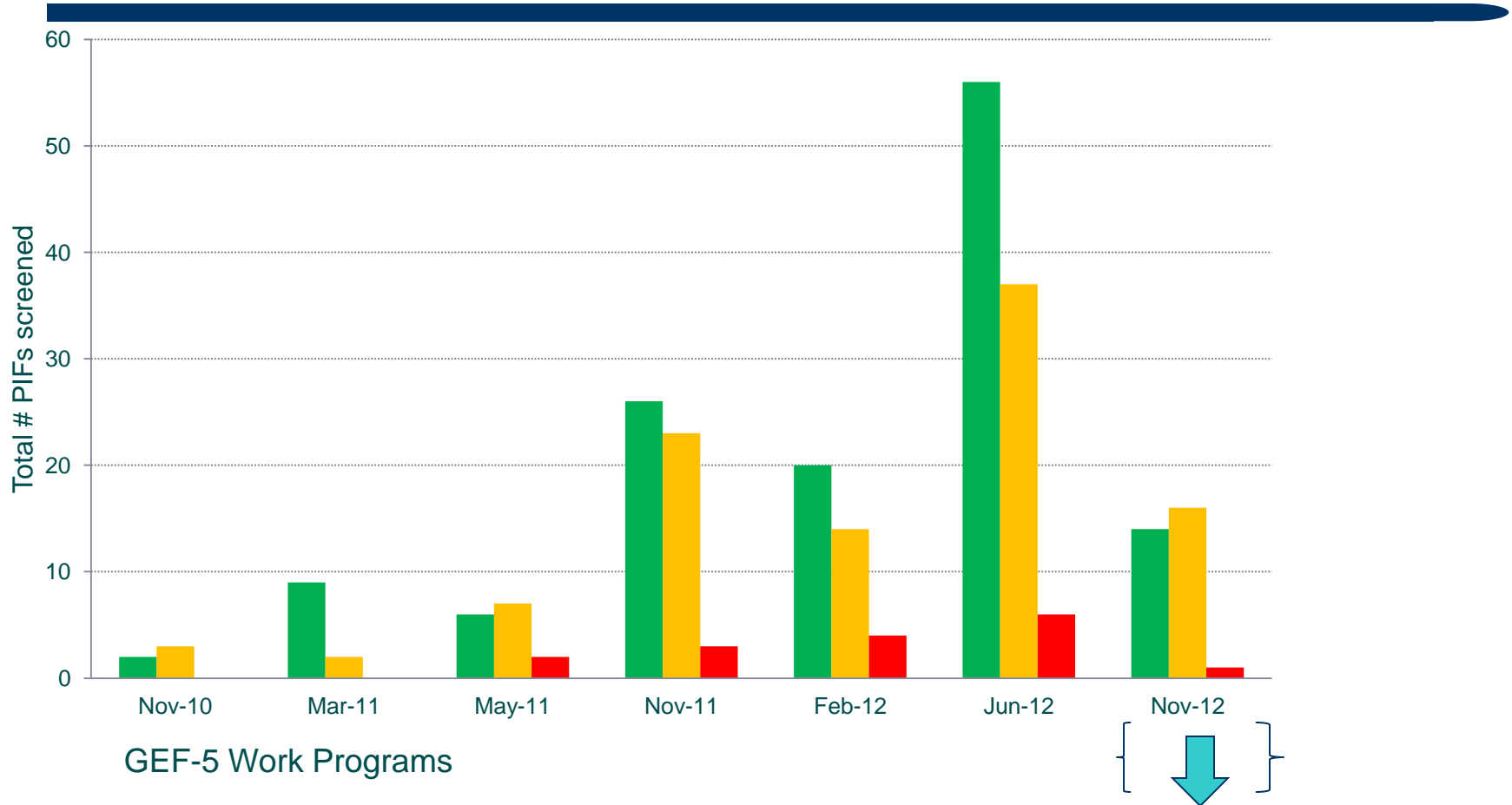
- Update on Operational Advice and Observations
- GEF 2020 Strategy
- Targeted Research
- STAP Chair and Panel Search Process
- Recent & Ongoing STAP Initiatives
- Climate Change: A Scientific Assessment for the GEF



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Trend in Recommended Revisions in GEF-5 Work Programs



	Consent	Minor	Major
GEF Trust Fund	14	16	1
SCCF Trust Fund	1	4	-

Work Program Observations

- **Positive upward trend towards MFA projects**
(Scientific reasoning for merging FAs can be further strengthened);
- **Greater clarity in design logic of some projects needed**
(e.g. proposed logical framework of components, outputs, and results)
- **Referencing in project PIFs can be strengthened**
(e.g. to previous GEF projects, scientific literature)



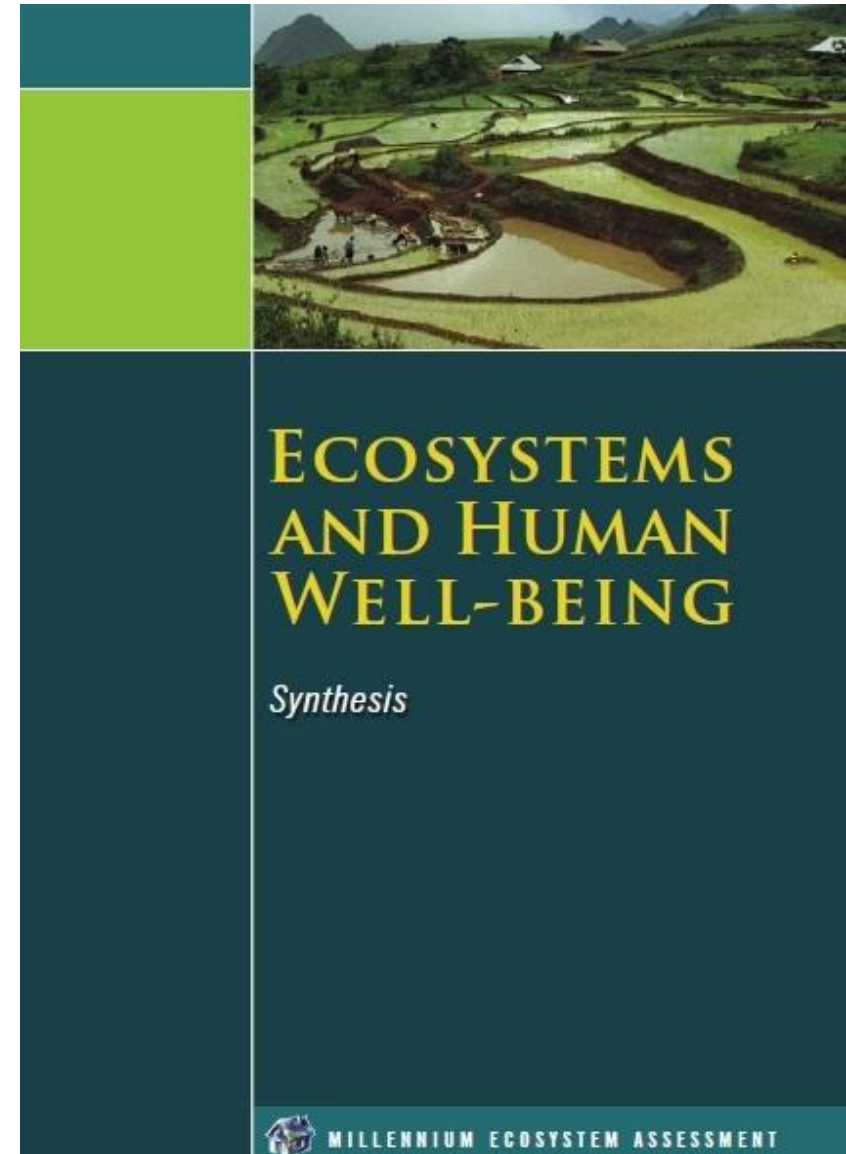
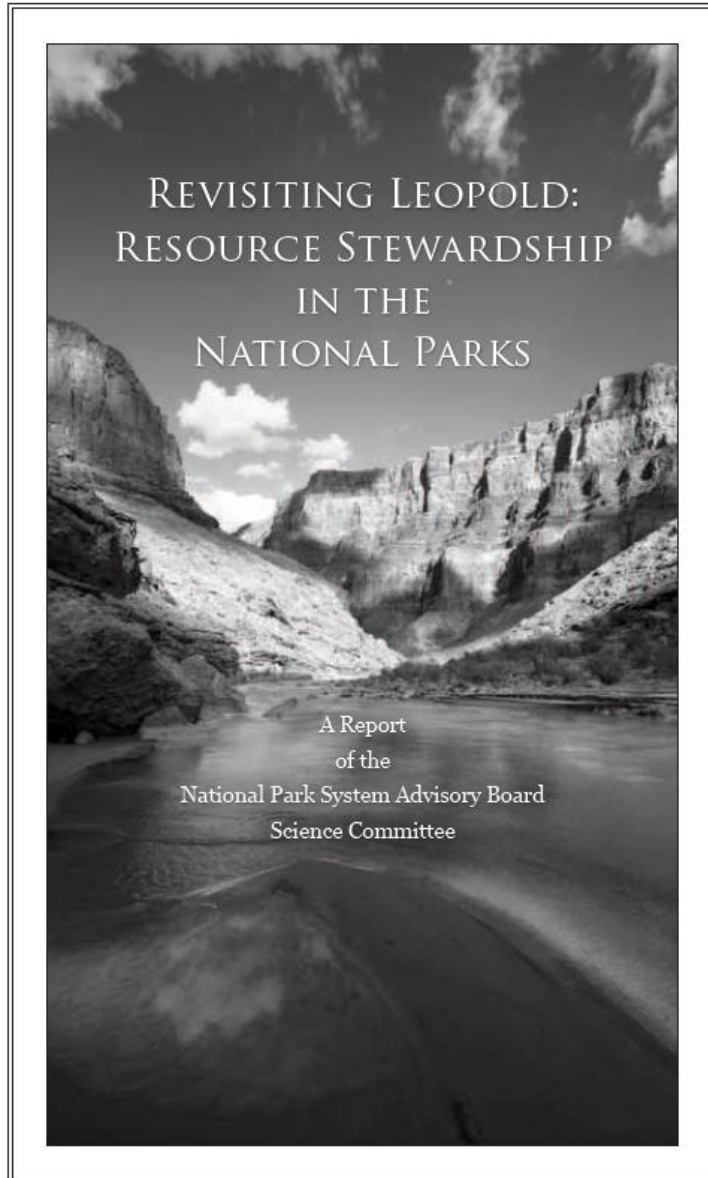
GEF 2020 Strategy

- STAP strongly supports focus on **innovation and transformational change** in the GEF
- Agrees that there can be **no separation** between our efforts in **environment and development**
- A continued focus on **global environmental benefits** is central to the future of the GEF

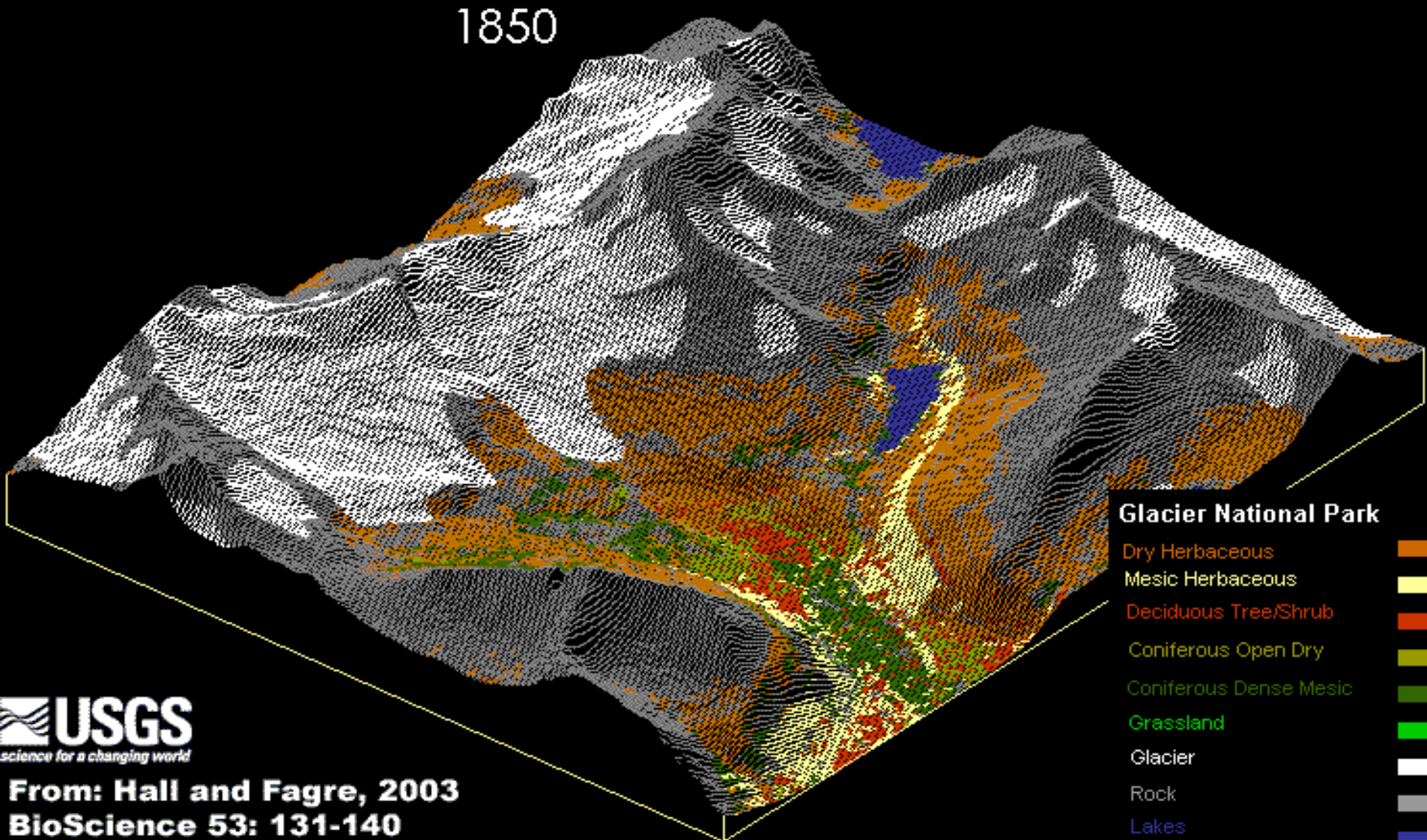


CBD COP XI, Hyderabad, India

Continuous progress in GEF effectiveness: The role of research



We are moving into uncharted territory



Research & managing for change

“The GEF is and must remain an innovator”

Dr. Naoko Ishii, GEF CEO and Chairperson. *Vision Statement*, 5 September 2012.

- **GEF Policy on Targeted Research**
– **adopted 1997**



- **The TR policy is outdated . . .**
the modality is not used
strategically
- **Research is a key pillar**
of innovation

Panel Search Process

- **Climate Mitigation**

Ralph Sims

- **STAP Chair Search**



Term of next Chair begins July 2013

- *Anand Patwardhan –
CC Adaptation Panel
Member*





Recent & Ongoing STAP Initiatives

Workshops, Advisory Products, & Panel Search

Scientific and Technical Advisory Panel



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Measuring above and below ground carbon

Carbon Benefits Project



Soil Organic Carbon Workshop



New STAP Advisory Products

Climate Change:
A Scientific Assessment
for the GEF

A STAP
INFORMATION DOCUMENT
NOVEMBER 2012

Scientific and Technical Advisory Panel
An independent group of scientists which advises the Global Environment Facility

Benefits and Trade-Offs Between
Energy Conservation and Releases of
Unintentionally Produced Persistent
Organic Pollutants
A STAP advisory document

Environmental Risks and the
... Facility
...ility ... document

...logy ... document

Manual for
Calculating Greenhouse Gas Benefits

Marine Debris
in the Environment

Hypoxia in the ...



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And in collaboration with the CBD . . .

Impacts of Marine Debris on Biodiversity

Secretariat of the Convention on Biological Diversity




CBD Technical Series No. 67





67

IMPACTS OF MARINE DEBRIS ON BIODIVERSITY

Current Status and Potential Solutions




UNEP  Convention on Biological Diversity 

Marine Spatial Planning

Secretariat of the Convention on Biological Diversity



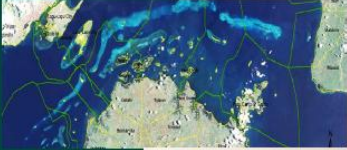
CBD Technical Series No. 68





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MARINE SPATIAL PLANNING IN THE CONTEXT OF THE CONVENTION ON BIOLOGICAL DIVERSITY

A study carried out in response to CBD COP 10 decision X/29



UNEP  Convention on Biological Diversity 

STAP products in progress

- Energy Efficiency Methodology
- Urbanization
- Nitrogen Cycle Disruption
- Adaptation Technologies; Costs of Adaptation
- Mercury
- Biofuels – Assessment of Current Science
- Trans-Boundary Water Assessments
- Socio-Economic Benefits of Protected Areas

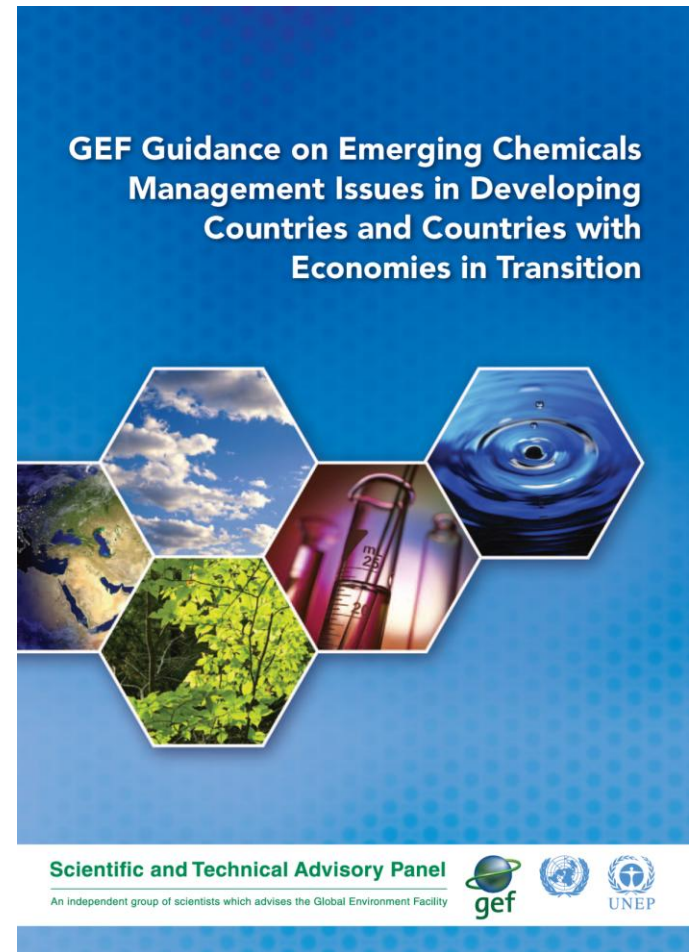


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Emerging Chemicals Management Issues (ECMI)

- Mixture effects of chemicals will increasingly become a drag on **social wellbeing, environmental health, and economic progress**



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Mercury

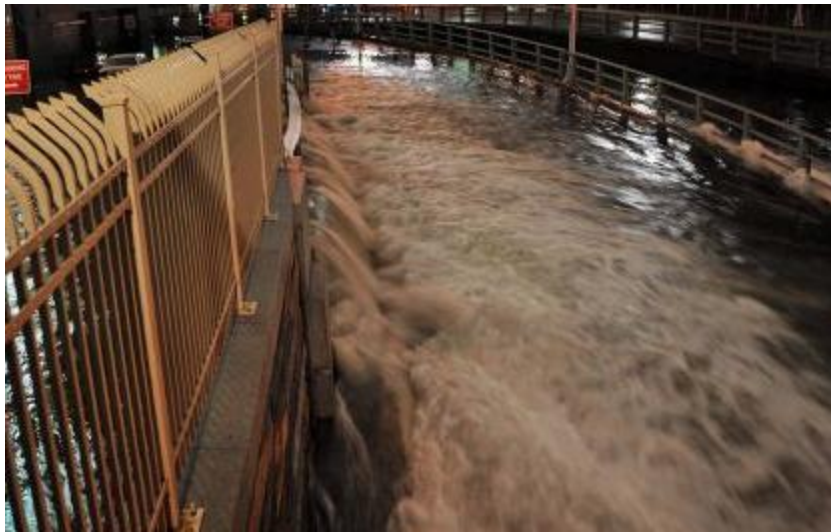
- **Mercury** is a key challenge – STAP assessment underway to help guide future interventions

Hg



The challenge of accelerating urbanization

- A city is a **complex system of systems** providing opportunities to think and respond to global challenges in **innovative** ways
- A possible GEF-6 nexus approach for addressing **reduction in GHG emissions** and **maintenance of ecosystem services**



**Smarter Cities
Smarter Planet**



Climate Change: *A Scientific Assessment for the GEF*



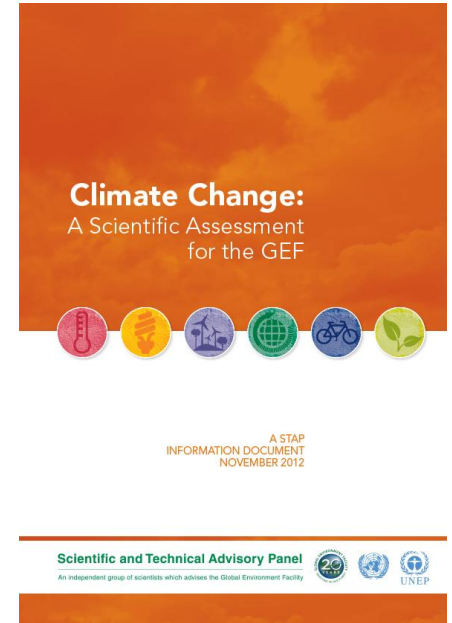
“Traditional conservation practices may prove insufficient for many eco-regions”



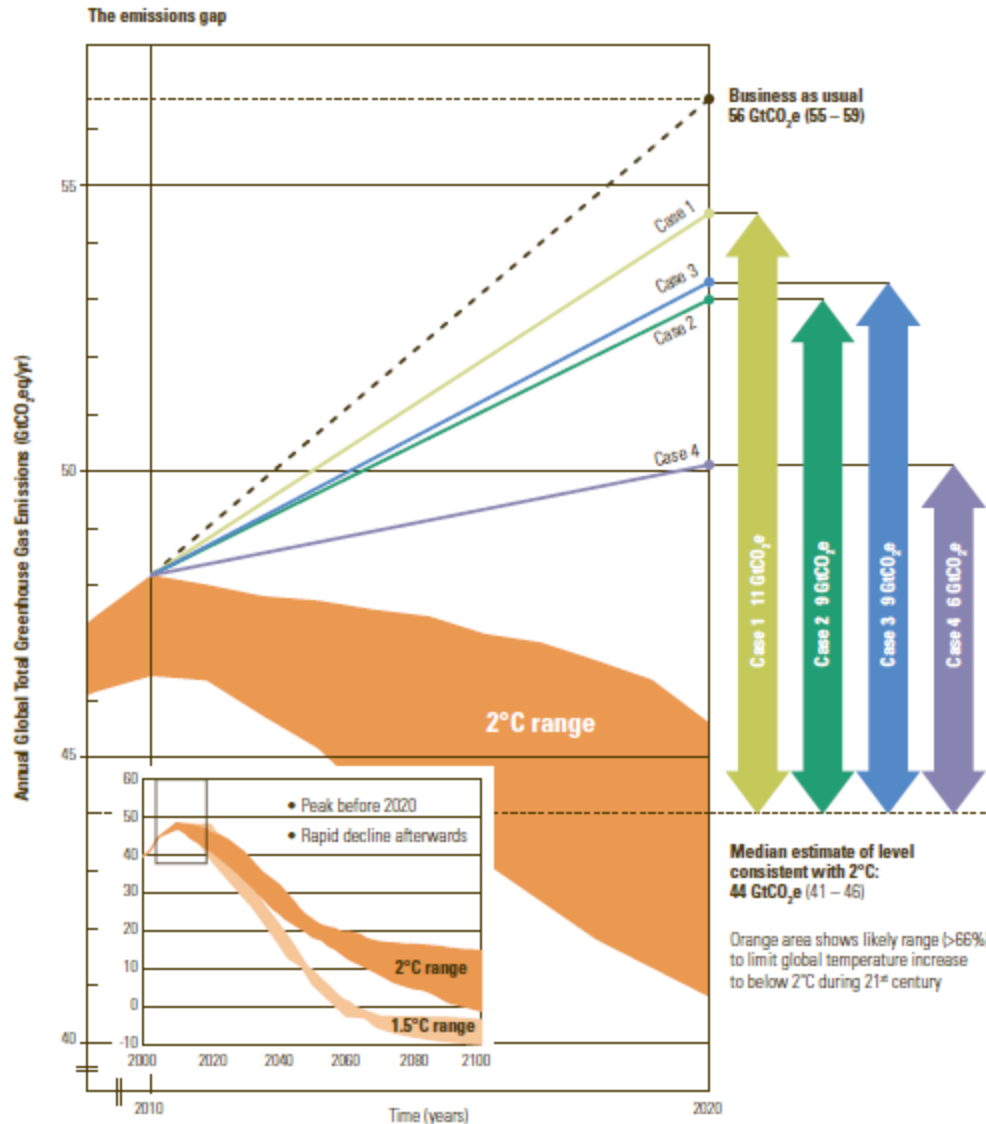
“incremental reductions in GHG emissions or mitigation interventions likely inadequate”



“... A transformational shift, leading towards a significantly lower energy demand and the decarbonization of energy supply and economic systems, will be required”



Climate Change: *A Scientific Assessment for the GEF*



Analysis of existing government pledges to reduce GHG emissions

Remaining gap to stay within 2C limit

Climate Change: *A Scientific Assessment of the GEF*

Future Considerations

*“Rather than supporting single technologies, the GEF should consider **policies that ensure a broad proliferation of EE technologies**”*

*“ . . . to enable [countries] **to shift more rapidly and comprehensively to a low-carbon pathway**, consistent with national sustainable development goals”*

We invite the GEF to consider:

- incentives and disincentives
- financial needs
- regulations and policies
- technology transfer mechanisms
- comprehensive measures
- capacity building where necessary



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Questions and comments welcomed

Thomas E. Lovejoy
Chair

GEF Scientific and Technical Advisory Panel

www.unep.org/stap

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