Solar Geoengineering and International Law

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Key Points

- 1. Existing international law provides little guidance on solar geoengineering, either positive or negative.
- 2. The only existing institution with relevant, binding decision-making authority is the Security Council, but it would not be able to limit solar geoengineering by P-5 states.
- 3. international governance is not legally necessary for solar geoengineering deployment.
- 4. A future legal regime on solar geoengineering might:
 - a. Promote cooperation in SG research.
 - b. Provide general standards to evaluate SG
 - c. Establish procedural requirements for SG

What roles could IL, in theory, play?

Potential Role

- Prescribe rules of conduct
 - Substantive
 - Prohibitions/limitations
 - Permissions
 - Liability rules
 - Procedural
- Provide evaluative principles to structure and guide debate
- Establish decision-making institutions and procedures

Existing rules and principles

Treaties	 UNFCCC: doesn't address SG Paris Agreement: 1.5/2° temperature goal Montreal Protocol: might apply generally to SAI, but no specific controls CLRTAP: applies only regionally; specific controls unlikely to limit SAI UNCLOS – general principles ENMOD – addresses only hostile uses London Convention/Protocol: applies to CDR, not SG Convention on Biological Diversity (CBD): decisions non-binding Espoo Convention on public participation
Custom	 Duty to prevent Precautionary principle Duty to assess Duty to notify and consult

Existing institutions

Institutions

- Scientific/expert organizations (ICSU, WMO)
- Conferences of the Parties (COPs) of multilateral environmental agreements
 - UNFCCC, CBD, UNCLOS, MP, etc.
- Security Council
- Judicial bodies: ICJ, ITLOS

Governance tasks

- Forum for discussion
- Coordination
- Information
 - Ex ante: assessment
 - Ex post: monitoring, review
- Standard-setting
 - Legal rules
 - Non-binding recommendations
 - General principles
- Decision-making / authorization
- Implementation
- Dispute settlement

What role does existing IL actually play?

Potential Role

Existing International Law

- Prescribe rules of conduct
 - Substantive
 - Prohibitions/limitations
 - Permissions
 - Liability rules
 - Procedural

- No substantive prohibitions, limitations, or liability rules
- But procedural rules relating to assessment, notification
- Provide evaluative principles to
 Yes, to some degree structure and guide debate
- Establish decision-making institutions and procedures

- Security Council could address SG if it posed threat to international peace and security
- But subject to veto by P-5

Would SG deployment require international governance?

- Claim often made that solar geoengineering deployment would require international governance
- Three senses of "required"
 - Legally required?
 - Probably not. Unilateral SG deployment not *per se* prohibited by international law.
 - Politically required?
 - Possibly not. At least in extremis, states might be willing to engage in SG unilaterally or as part of coalition of the willing
 - Morally required?
 - Possibly, although unilateral SG deployment might be justified if multilateral approval impossible

What role could/should IL, in practice, play?

Potential Role

Future International Law

- Prescribe rules of conduct
 - Substantive
 - Prohibitions/limitations
 - Permissions
 - Liability rules
 - Procedural

- Substantive
 - Moratorium?
 - General prohibitions, with limited exceptions?
- Reinforce/enhance procedural rules
- Provide evaluative principles to structure and guide debate
- Establish decision-making institutions and procedures

- Yes, to some degree > could help legitimate SG
- Unlikely, beyond the Security Council

New norms: Content?

- General principles
 - Principles governing humanitarian intervention possibly a model:
 - Right intent
 - Last resort
 - Reasonable prospect of success

Substantive rules

- Moratorium: could address "slippery slope" concern about research
- Prohibitions on specific SG techniques: analogy to arms control agreements
- Liability rules: unlikely to be agreed

New norms: Legal or non-legal?

- Treaty vs. code of conduct/guidelines
- Pros and cons
 - Treaties in theory promote compliance
 - But treaties
 - More difficult to negotiate
 - Bind only those states that consent
 - Generally more difficult to revise

Future governance

- What international governance functions potentially acceptable to states (based on evidence from other regimes)?
 - Forum for discussion: yes
 - Coordination of research: likely
 - Information (monitoring, assessment): likely
 - Standard-setting: possibly
 - Decision-making/authorization: unlikely
 - Dispute resolution: unlikely
- New vs. existing institutions?
- Universal vs. limited membership?

Some research Qs

- What are relevant analogies?
 - Humanitarian intervention?
 - Arms control?
- Is the deliberate nature of SG legally relevant?
- Is SG different from other government policies with transboundary/global effects (e.g., interest rate changes by the Fed) and, if so, how?