



SMPAG Work Plan Task Item 5.8:

Consequences, Including Failure, of a Mitigation Space Mission

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Top Level Considerations

The consequences of a successful mitigation mission are benign

The consequences of an unsuccessful mission span the full range between a near miss and a full impact

Failure of a space mission is not uncommon

While the mission itself might be technically successful, the mitigation effort could be inadequate

The technical consequences of a failed mitigation mission are relatively well understood. The economical, political and sociological direct and indirect consequences need to be explored.

A failed mitigation mission has the additional aspect of responsibility, possible culpability and liability



Methodology

Attempt to identify all possible aspects

Identify common elements with other natural disasters

Literature/Internet search

Targeted search

Personal communication

Current status

Draft extended outline

Every identified element and sub-element is represented by a descriptive title

Every element has a high level description to allow the assessment of relevance and importance



Current Table of contents

1. Introduction and Background
2. Mitigation Scenarios
3. Desirable Outcome
4. Possible Alternative Outcomes/Failures
5. Impact Scenarios
6. Consequential Hazards
7. Strategic Planning
8. Civil Protection
9. *Government and Law?*
10. *Priorities?*
11. *Communications and Interfaces?*
12. *Legal Issues?*



Decisions to be taken

Level of completeness: what is missing?

Identify overlaps with other task items and define the boundaries

To what extent and to which level of depth should the report go into possible technical reasons for the failure of a mission (mission ops)?

To what extent should the report go into possible impact scenarios?

Which additional expertise is required for the production of the report? Who and how to provide?

Agree on a final extended outline as the basis for the preliminary report

Preliminary report to be presented to the group at the next meeting of the SMPAG