The effects of aging on mines

Constructed: 60 yrs ago
Abandoned: 30 yrs ago
Conduct of the study:
locations

Cambodia
Jordan
Falklands

30 year exposure

Hot wet  Hot dry  Cold wet

Conduct of the study:
the process
Observations

Rotting wood

Stake mines

Box mines

Rusting steel
Chinese Type 72: Cambodia

Russian PMD-6: Cambodia

Russian PMD-6: Cambodia

Plant activity

Mechanical damage

Fire

Implications

MRE, Training, Recognition
Clearance procedures

Detection

Maximise productivity
Guidance for R&D

- Less metal: GPR-based
- HE leakage: Hyperspectral

Prioritization of tasks
High priority

Low priority

Conclusions

- Much to learn about effects of aging
- Important implications for:
  - Prioritization, MRE, training, clearance, R&D, detection.
- Impacts on:
  - Funding / strategic planning
  - Regional mine action
  - Military operations
- Further work and funding required

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