

K19(G73)

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Proposal Abstract K19(G73)

1. **Arms Control Problem:**
Nuclear weapons - comprehensive test ban
2. **Verification Type:**
 - (a) Seismic sensors - international network
 - (b) International exchange of information
3. **Source:**
Netherlands. "Some observations on the verification of a ban on underground nuclear test explosions". CCD/416, 28 August 1973.
4. **Summary:**
The paper comes to the following conclusions:
 - (1) Obligatory on-site inspections would not enhance identification possibilities significantly.
 - (2) Realistic possibilities of evading an underground test ban seem to exist for yields up to 10 kt. Significant improvements or extension of seismological hardware will probably not change this. On the other hand, improvements in counter-evasion techniques like spectral analysis, matched filtering and measurement of focal depth could be quite helpful.
 - (3) An intensified international exchange of those seismic data which are used for identification of events is needed on a routine basis.