BACKSCATTER AND TRANSMISSION OF AEROSOL AT UV THROUGH MIDDLE IR WAVELENGTHS

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The research reported in this document has been made possible through the support and sponsorship of the U.S. Government through its European Research Office of the U.S. Army. This report is intended only for the internal management use of the Contractor and the U.S. Government.
A research scientist has commenced work under the contract. A Continuum Surelite 10 Hz Nd:Yag laser system which includes second, third and fourth harmonic generators has been purchased and is currently being set up. In addition, a research assistant has also commenced work and is directed towards the measurement of biological aerosol components - pollen in the first instance. A special pollen sampler - A Tauber Trap - is currently being constructed with the objective of conducting long-term pollen field measurements.

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<thead>
<tr>
<th>Backscatter, transmission, biological aerosol, pollen</th>
<th>None</th>
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<td>Unclassified</td>
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(a) No contract funds have been used to date

(b) A Continuum Surelite 10 Hz Nd:Yg laser system has been acquired.