

## Remote Measurement of Pollution: A 40-Year Langley Retrospective: Part 1 Temperature and Gaseous Species



Remote Measurement of Pollution: A 40-Year Langley Retrospective: Part 1: Temperature and Gaseous Species

NASA Technical Reports Server (NTRS), Ellis E. Remsberg

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## REMOTE MEASUREMENT OF POLLUTION: A 40-YEAR Langley Retrospective: Part 1 Temperature and Gaseous Species

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Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 76 pages. Dimensions: 9.7in. x 7.4in. x 0.2in. The National Aeronautics and Space Administration (NASA) phased down its Apollo Moon Program after 1970 in favor of a partly reusable Space Shuttle vehicle that could be used to construct and supply a manned, Earth-orbiting Space Station. Applications programs were emphasized in response to the growing public concern about Earth's finite natural resources and the degradation of its environment. Shortly thereafter, a workshop was convened in Norfolk, Virginia, on Remote Measurement of Pollution (or RMOP), and its findings are in a NASA Special Publication (NASA SP-285). The three primary workshop panels and their chairmen were focused on trace gas species (Will Kellogg), atmospheric particulates or aerosols (Verner Suomi), and water pollution (Gifford Ewing). Many of the workshop participants were specialists in the techniques that might be employed for the regional to global-scale, remote measurements from an Earth-orbiting satellite. The findings and recommendations of the RMOP Report represent the genesis of and a blueprint for the satellite, atmospheric sensing programs within NASA for nearly two decades. This paper is a brief, 40-year retrospective of those instrument developments that were an outgrowth of the RMOP activity. Its focus is on satellite measurement capabilities for temperature and gaseous species that were demonstrated by atmospheric technologists at the Langley Research Center. Limb absorption by solar occultation, limb infrared radiometry, and gas filter correlation radiometry techniques provided significant science data, so they are emphasized in this review. This item ships from La Vergne, TN. Paperback.



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