

[Home](#) | [Site Map](#) | [Contact Us](#)[Home](#)[Registration](#)[DTIC A-Z](#)[Submit Documents](#)[Interest Areas](#)[Customer Support](#)Search [DoD Sites & Collections](#)[S&T Resources](#)[Announcements](#)[Forms & Guides](#)[IACs](#)[Find It](#)[Order Paper Copy](#) [GO](#) [More Search Options](#)[About Us](#)[A](#)**Accession Number:**

AD0703276

**Full Text (pdf) Availability:****Size:** 0 KB**Handle / proxy Url:** No Full Text PDF Available**Citation Status:**

A - Active

**Title:**

ANALYSIS OF RELEASES OF TRACER CHEMICALS IN THE UPPER ATMOSPHERE.

**Fields and Groups :**

040100 - Atmospheric Physics

**Corporate Author:**

PHOTOMETRICS INC LEXINGTON MASS

**Personal Author(s):**

Johnson, Ronald H

Kofsky, Irving L

Bowman, John C

Trowbridge, Christian A

**Report Date:**

30 Jan 1970

**Media Count:**

54 Pages(s)

**Organization Type:**

4 - INDUSTRIAL/COMMERCIAL

**Contract Number(s):**

F19628-69-C-0091 (F1962869C0091)

**Report Number(s):**

AFCRL700074 (AFCRL700074)

AFCRL70-0074 (AFCRL700074)

**Descriptive Note:**

Final rept. 1 Oct 68-31 Dec 69,

**Project Number(s):**

AF-5633 (AF5633)

AF-7635 (AF7635)

**Task Number(s):**

563309 763509

**Monitor Acronym(s):**  
AFCRL (AFCRL)

**Monitor Series:**  
70-0074 (700074)  
700074 (700074)

**Identifiers:**  
CHEMICAL RELEASE STUDIES

**Abstract:**

A program of analysis and interpretation of radiometrically calibrated photographs of chemical releases designed to probe the upper atmosphere is described. Slitless spectra of the early phases of explosive barium releases, made with a high-sensitivity secondary electron conduction vidicon system, were reduced by microdensitometry of the video output display. Precision photographic photometry of a series of AIO clouds were used in a search for high-altitude gravity waves. Time exposures were re-photographed in cine mode for improved visualization of the development and transport of luminous clouds. The procedure by which the data stored on the films are reduced and analyzed is carefully reviewed, and a larger scanning aperture with a much smaller number of sampling points is recommended. (Author)

**Distribution Limitation(s):**  
01 - APPROVED FOR PUBLIC RELEASE

**Source Serial:**  
F

**Source Code:**  
388596

**Document Location:**  
1 - DTIC AND NTIS

**Geopolitical Code:**  
2505

**SBI Holding Symbol:**  
RSIH



**DEFENSE TECHNICAL INFORMATION CENTER**  
8725 John J. Kingman Road, Fort Belvoir, VA 22060-6218

[No Fear Act](#) | [Privacy Act](#) | [Web Accessibility](#) | [FOIA](#) | [Contact Us](#)  
[Site Map](#) | [Registration](#) | [DTIC A-Z](#) | [Submit Documents](#) | [Interest Area](#) | [Customer Support](#)  
[S&T Resources](#) | [Announcements](#) | [DTIC Forms & Guides](#) | [IACs](#) | [Find It](#) | [About Us](#)

