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THE GODDARD SPACE FLIGHT CENTER  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
ANNOUNCES  
(THE AVAILABILITY OF RADIATION DATA)  
FROM THE  
TIROS II, III, IV, AND VII METEOROLOGICAL SATELLITES

GPO  
CFST \$1.00  
HC \$1.50  
MF \$1.50

Results from infrared and visible radiation experiments on the TIROS Meteorological Satellites are now available in various "hard copy" formats, in addition to the "binary" Final Meteorological Radiation Tapes, suitable for computer processing, which have previously been available. Detailed descriptions of most of these formats are contained in the TIROS II and TIROS III Radiation Data Catalogs and associated Users' Manuals and in the TIROS IV Radiation Data Catalog and Users' Manual published by the Goddard Space Flight Center, NASA, Greenbelt, Maryland.

Examples of the hard copy formats available are: (1) Data Listings of the calibrated information for a specific time period for all sensors, together with appropriate locator and directional information, and (2) Grid Print Maps of averaged, contoured data at various resolutions on Mercator or polar stereographic map bases. A complete list of the products and services available and copies of the appropriate documents giving a detailed description of the experiment, including notice of certain precautions which must be taken in interpreting the data, will be furnished upon request.

Measurements made from an orbital height of approximately 750 km within an angular acceptance of about 5° by five-channel, scanning radiometers in near-circular, 48°-inclination orbits are available for the periods shown in the following table:

Optical Filter Passbands (Approximate)

	6.0 - 6.5μ	8 - 12μ	8 - 30μ	0.2 - 6μ	0.55 - 0.75μ
TIROS II	23 Nov 60- 3 Jan 61	23 Nov 60- 13 Apr 61	23 Nov 60- 6 Jan 61	-----	-----
TIROS III	12 Jul 61- 20 Jul 61	12 Jul 61- 10 Sept 61	12 Jul 61- 21 Jul 61	12 Jul 61- 10 Sept 61	12 Jul 61- 1 Aug 61.
TIROS IV	8 Feb 62- 30 Jun 62	8 Feb 62- 30 Jun 62	-----	8 Feb 62- 30 Jun 62	8 Feb 62- 30 Jun 62

The calibration and stability of the radiometer have improved with succeeding experiments, particularly those on TIROS IV and TIROS VII. Hence, the data from these satellites are recommended over the data from the earlier two. Data from the 58°-inclination orbit of TIROS VII, covering a period of approximately one year from 19 June 1963 and similar to previous measurements except for a passband centered around the  $15\mu$   $\text{CO}_2$  band instead of the  $6.3\mu$   $\text{H}_2\text{O}$  band, are expected to be made available in the latter part of 1964.

Hard copy data and their pertinent Final Meteorological Radiation Tapes in limited quantities may be obtained by investigators without charge by writing to:

TIROS Radiation Data, Code 651  
Aeronomy and Meteorology Division  
NASA-Goddard Space Flight Center  
Greenbelt, Maryland 20771

Hard copy data or copies of the Final Meteorological Radiation Tapes containing the originally reduced data in their entirety may be obtained at cost by writing to:

National Weather Records Center  
U. S. Weather Bureau  
Federal Building  
Asheville, North Carolina 28801