

TECHNICAL NOTE

Availability of Radiation Data From the TIROS II, III, IV, and VII Meteorological Satellites

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, Md.

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 table 1.

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 from June 19, 1963, to September 30, 1963, and similar to previous measurements except for a passband centered around the 15μ CO₂ band instead of the 6.3μ H₂O band, are now available. Data from TIROS VII after September 30, 1963, are expected to be made available during 1965.

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, Md. 20771

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

National Weather Records Center
U.S. Weather Bureau
Federal Building
Asheville, N.C. 28801

TABLE 1.—Optical filter passbands (approximate)

	6.0-6.5μ	8-12μ	8-30μ	0.2-6μ	0.55-0.75μ
TIROS II.....	Nov. 23, 1960-Jan. 3, 1961.....	Nov. 23, 1960-Apr. 13, 1961.....	Nov. 23, 1960-Jan. 6, 1961.....		
TIROS III.....	July 12, 1961-July 20, 1961.....	July 12, 1961-Sept. 10, 1961.....	July 12, 1961-July 21, 1961.....	July 12, 1961-Sept. 10, 1961.....	July 12, 1961-Aug. 1, 1961.....
TIROS IV.....	Feb. 8, 1962-June 30, 1962.....	Feb. 8, 1962-June 30, 1962.....		Feb. 8, 1962-June 30, 1962.....	Feb. 8, 1962-June 30, 1962.....