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Quarterly Progress Report
HCMM Contract
with the
U. S. Water Conservation Laboratory

1. Order No.: S-40255B
2. Principal Investigator: Ray D. Jackson
   U. S. Water Conservation Laboratory
   4331 East Broadway
   Phoenix, AZ 85040
4. Description:
   a. General -- Tapes for day and night passes on 16 and 20 May 1978, and a day pass on 3 May 1980 have been processed. Two preliminary results are apparent: (1) It is extremely difficult to locate a field of 9 pixel size, and (2) temperature data from the HCMM was consistently lower than temperatures measured with a scanner flown at low altitudes. The temperature differences between the satellite and aircraft data appear to be temperature dependent, being smaller at lower temperatures. Three data points are [in the format (airc, HCMM)] (12,9), (30,23), (39,30). The linear equation for these three points is $T_{HCMM} = 0.778 T_{airc} - 0.33$. These results are not regarded as significant, in the sense of d. below, because of the limited data and the necessity of comparing these data with data of other investigators.
   b. Problems - none this period.
   c. Accomplishments - obtained and processed tapes.
   d. Significant results - none (see a.).
   e. Publications - none.
   g. All funds expended.

Submitted by:

Ray D. Jackson
Principal Investigator

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