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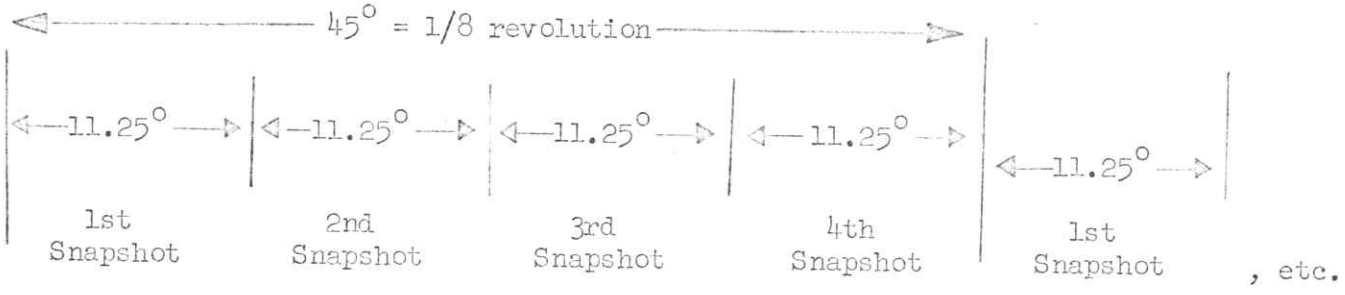
Mr. Hosea White
IMP H and J Project Office
Goddard Space Flight Center
Greenbelt, Maryland 20771

Dear Mr. White:

In the course of developing the APP experiment for IMP's H and J it has become apparent that some additional manipulation of one of our data lines (E3) will result in a significant increase in the amount of physical information from the experiment.

Specifically, I am referring to function E3 of signal APL-S2, as designated in the APP interface document, dated 5 August 1969. You will recall that 8 sector accumulators have been assigned to this output, corresponding to accumulation of data over 45° per sector. We have now decreased the field of view of E3 to 11.25° in order to improve our angular resolution, but with the present data scheme we will still be accumulating over 45° so that no real improvement has been made.

We therefore wish to request whether it is possible to accumulate data over 11.25° per snapshot, and make the 11.25° a different portion of the 45° sector for subsequent snapshots, i.e.



Thus we are not asking for more accumulators, but rather asking delayed accumulation within a given sector.

If it is determined that the spacecraft cannot provide this function, we wish to be informed of the availability of appropriate clock lines to perform this function inside our own package.

An early indication of your response will be appreciated.

Sincerely yours,

S. M. Krimigis

S. M. Krimigis
Principal Investigator
APP Experiment

SMK:jgs
Distribution - External:
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Dr. N. Ness/GSFC
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