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A PLAN FOR ACQUIRING PROPAGATION DATA FROM ACTS COMMUNICATIONS EXPERIMENTS

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THE STEPS

- Determine what data is available
- Determine what data to collec
- Present the plan at ACTS Propagation Workshop fo discussions
- Promote plan at ACTS communications experimenters meeting
  - obtain cooperation of p incipal investigators
- Work out funding, management, technical, contracting and scheduling liaison details

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Plan to use EOA Data

DATA CHARACTERISTICS

NRA Class I	EOA
time stamp	time stamp
rain and other climatic data	climatic data usually not available
fade (attenuation) data	fade data
continuous measurement over two years	not continuous; duration can be from weeks to two years

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Plan to Use EOA Data

SOME PROMISING CANDIDATES

1. NASA Ground Station and Master Control Station (NGS / MCS)

- 20 GHz telemetry beacon power level measured on a daily, quasi-continuous basis over the two-year ACTS experiment period
- Data stored at MCS
- Weather data may be available from nearby airport

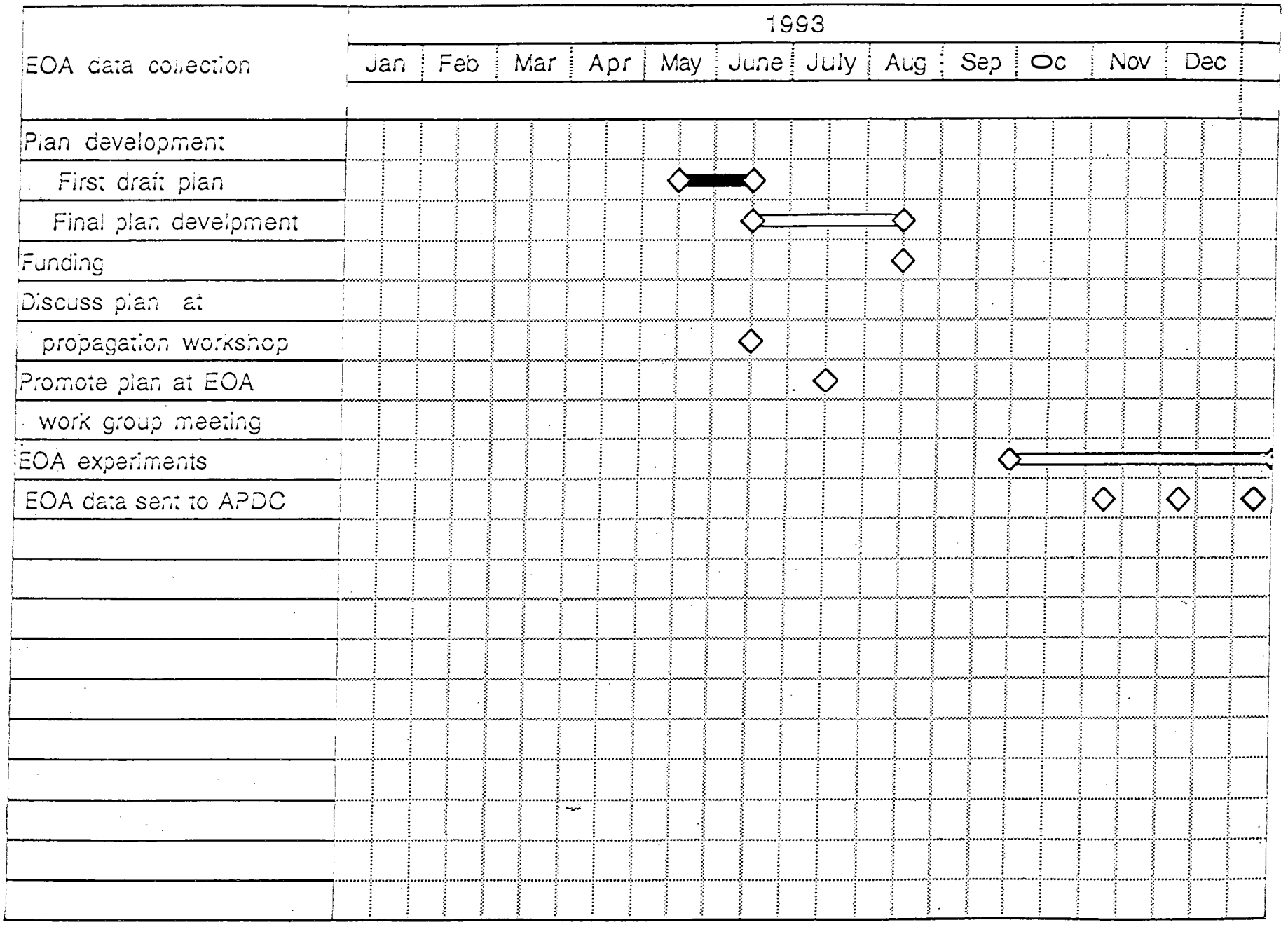
Assessment : This looks like a Class I experiment for the Cleveland area.

2. VSAT's

- Fade data is deposited and stored at MCS
- Individual terminals : Look closely at terminals which will be at the same location for one year or longer and which will be used frequently and fairly uniformly over the year.
- The ensemble of all VSAT's :
  The data is deposited at MCS. The data aggregate represents the average fade statistics of the lower 48 states over two years.

3. Mobile terminals

- Data in mobile environment is valuable and should be deposited at APDC.



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