First Two Years of Observations
NASA ACTS Propagation Experiment
Central Oklahoma Site

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Introduction

Continuous observations from December 1, 1993 through November 30, 1995 were made at the ACTS Propagation Terminal on the roof of the Sarkeys Energy Center at the University of Oklahoma in Norman, Oklahoma. Beacon and radiometer observations were combined to calibrate the beacon system for the estimation of total attenuation (attenuation relative to free space) and attenuation relative to clear sky (gaseous absorption component removed). Empirical cumulative distributions (edf's) were compiled for each month of observation and for each year. The annual edf's are displayed in the figures, the monthly and annual edf's are listed in the tables. The tables are organized by blocks and pages within a block. The blocks correspond to the headings in the .edf files generated by the ACTS Preprocessing (actspp) software and contained in the fourth disk in the set of ACTS Propagation Experiment CD-ROMs generated by the University of Texas.

Site Characteristics

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The Data

The attenuation, standard deviation, sky temperature and rain-rate distributions shown in the figures are for one-minute observation or integration intervals. The attenuation distributions in the block 1 tables are for one-second integration times. The fade duration and inter-fade interval distributions are obtained from the one-second integration time data. For the fade and inter-fade interval observations, the data were extrapolated across calibration intervals using frequency scaling and the observations at the other frequency. The frequency scaling coefficients were obtained from observations for the minute before the calibration interval.

The time base for the distribution estimates was the time for simultaneous observations (including calibration intervals). Assuming random occurrences of equipment failures, the times when the equipment was not operable were excluded from the time base. The edf's therefore can be used for frequency scaling.
The capacitor rain gauge was used for the first year of observations. A tipping bucket rain gauge was used for the second year. The capacitor gauge was sent to the Florida site for the second year. Because the rain-rate measurements were made on the roof of a 15 story building, the rain rate data should be taken as an estimate of the times when rain actually fell on the antenna. The Oklahoma Mesonet rain-rate distributions from the two closest sites, Norman, OK and Washington, OK, should be used to estimate the rain-rate distribution for modeling purposes. The mesonet data are for a five-minute integration time. These data are identical to one-minute integration time observations for rates less than 80 mm/h. At higher rates the one-minute observations show a slight increase in rate for the same probability (less than 5%). The statistical uncertainty in the observations (compare Norman, OK and Washington, OK) is much larger.
27 GHz Beacon Data  
Attenuation Relative to Clear Sky  
ACTS Propagation Experiment  
Norman, OK

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'93 - '94  
'94 - '95

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<table>
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<th>Attenuation Relative to Clear Sky (dB)</th>
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<td>Percentage of Year Attenuation Value is Exceeded (%)</td>
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-5 0 5 10 15 20 25 30
20 GHz Beacon Data

Attenuation Relative to Free Space

ACTS Propagation Experiment
Norman, OK

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'93 - '94

'94 - '95

Percentage of Year Attenuation Value is Exceeded (%)

Total Attenuation (dB)
Fade Duration

ACTS Propagation Experiment
Norman, OK

- - - - - - 10 dB '93-'94 - - - - - 10 dB '94-'95 - - - - - 5 dB '93-'94 - - - - - 5 dB '93-'94

Percentage of Fades Fade Duration Value is Exceeded (%)

Fade Duration (sec)
20 GHz Beacon Data

Inter-Fade Interval ACTS Propagation Experiment
Norman, OK

10 dB '93-'94 ------- 10 dB '94-'95 ------- 5 dB '93-'94 ------- 5 dB '93-'94

--- Percentage of Intervals Inter-Fade Interval Value is Exceeded (%) ---

--- Inter-Fade Interval (sec) ---

--- 10000 1000 100 10 1 ---

--- 0.1 0.1 1 10 100 1000 ---
20 GHz Beacon and Radiometer Data

ACTS Propagation Experiment
Norman, OK

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Standard Deviation

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- 93-94 Beacon
- 94-95 Beacon
- 93-94 Radiometer
- 94-95 Radiometer
27 GHz Beacon and Radiometer Data

27 GHz Beacon and Radiometer Data

Standard Deviation

ACTS Propagation Experiment
Norman, OK

- - - - 93 - 94 Beacon - - - - - 94 - 95 Beacon - - - - - 93 - 94 Radiometer - - - - - 94 - 95 Radiometer

Percentage of Year Standard Deviation Value is Exceeded (%)

Standard Deviation (dB)
Rain Rate

ACTS Propagation Experiment
Norman, OK

'93 - '94 Capacitor Rain Gauge
'94 - '95 Tipping Bucket Rain Gauge
Gauge on the roof of a 15 story building

Percentage of Year Rain-Rate Value is Exceeded (%)

Rain Rate (mm/h)
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Oklahoma

20 GHz Beacon Attenuation Distribution obtained from Seconds above threshold (% of interval)
### 20 GHz Radiometer Attenuation Distribution obtained from Seconds above threshold (% of interval)

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### Oklahoma

#### 27 GHz Beacon Attenuation Distribution

<p>| Year | Month | -0.5 | 0.5 | 0.7 | 1 | 1.5 | 2 | 3 | 4 | 5 | 7 | 10 | 15 | 20 | 30 dB |
|------|-------|------|-----|-----|--|-----|---|---|---|---|---|----|-----|-----|-----|------|
| 93   | 12    | 99.84| 22.82| 12.63| 8.053| 5.535| 3.965| 1.928| 1.077| 0.735| 0.384| 0.112| 0.030| 0.005|
| 94   | 1     | 99.99| 21.85| 12.68| 6.512| 3.322| 1.25 | 0.065| 0.015| 0.006| 4E-05|
| 94   | 2     | 99.98| 16.58| 10.28| 5.706| 3.803| 2.853| 1.529| 0.964| 0.603| 0.21 | 0.113| 0.070| 0.034| 0.020|
| 94   | 3     | 99.99| 20.55| 11.78| 8.438| 5.609| 3.546| 1.838| 1.179| 0.736| 0.315| 0.151| 0.028| 0.025| 0.023| 0.016|
| 94   | 4     | 99.95| 36.14| 15.84| 7.585| 4.617| 3.381| 2.07 | 1.422| 0.979| 0.385| 0.148| 0.066| 0.018| 0.009|
| 94   | 5     | 99.97| 41.82| 20.15| 9.528| 5.664| 3.654| 1.453| 0.961| 0.639| 0.323| 0.205| 0.141| 0.115| 0.071|
| 94   | 6     | 99.98| 76.17| 38   | 5.856| 1.686| 0.927| 0.584| 0.43 | 0.315| 0.175| 0.130| 0.089| 0.072| 0.065|
| 94   | 7     | 99.99| 73.17| 37.76| 8.616| 3.944| 2.772| 1.923| 1.558| 1.32 | 0.997| 0.624| 0.335| 0.229| 0.155|
| 94   | 8     | 99.99| 69.04| 37   | 8.34 | 2.425| 1.412| 0.754| 0.514| 0.438| 0.327| 0.231| 0.144| 0.129| 0.107|
| 94   | 9     | 99.98| 54.08| 34.81| 12.31| 5.19 | 3.45 | 1.942| 1.439| 1.084| 0.733| 0.443| 0.211| 0.093| 0.044|
| 94   | 10    | 99.98| 54.23| 31.4 | 14.23| 6.637| 3.944| 1.414| 0.615| 0.32 | 0.174| 0.125| 0.068| 0.036| 0.015|
| 94   | 11    | 99.98| 32.57| 21.83| 11.6 | 6.259| 4.883| 3.576| 2.545| 1.507| 0.641| 0.281| 0.113| 0.064| 0.028|
| 94   | 12    | 99.94| 27.08| 14.74| 8.203| 3.077| 1.508| 0.565| 0.356| 0.249| 0.145| 0.080| 0.021| 0.008| 0.003|
| 95   | 1     | 99.97| 13.93| 8.376| 5.122| 2.093| 1.275| 0.842| 0.598| 0.471| 0.336| 0.117| 0.051| 0.024| 0.013|
| 95   | 2     | 99.97| 12.31| 4.647| 2.394| 1.144| 0.568| 0.315| 0.199| 0.127| 0.041| 0.011|
| 95   | 3     | 100  | 32.71| 17.1 | 9.904| 5.923| 4.133| 1.604| 0.767| 0.469| 0.236| 0.115| 0.055| 0.025| 0.008|
| 95   | 4     | 99.99| 23.01| 13.44| 9.188| 5.643| 3.475| 1.815| 1.168| 0.87 | 0.539| 0.334| 0.192| 0.139| 0.085|
| 95   | 5     | 99.98| 51.05| 27.99| 13.05| 7.883| 6.228| 4.608| 3.649| 3.074| 2.205| 1.459| 0.845| 0.593| 0.33|
| 95   | 6     | 99.97| 61.38| 30.81| 14.77| 8.605| 6.165| 4.08 | 3.1  | 2.403| 1.463| 0.98 | 0.687| 0.485| 0.376|
| 95   | 7     | 99.99| 77.83| 44.35| 8.259| 1.938| 1.425| 1.207| 1.113| 1.034| 0.695| 0.267| 0.164| 0.124| 0.1|
| 95   | 8     | 99.98| 84.87| 54.55| 12.54| 2.946| 1.742| 1.088| 0.742| 0.558| 0.346| 0.186| 0.092| 0.068|
| 95   | 9     | 99.99| 79.54| 51.75| 19.73| 8.986| 6.059| 3.625| 2.57 | 2.025| 1.387| 0.749| 0.331| 0.221| 0.183|
| 95   | 10    | 99.99| 19.69| 6.496| 2.825| 1.267| 0.738| 0.438| 0.267| 0.202| 0.122| 0.096| 0.071| 0.058| 0.049|
| 95   | 11    | 98.31| 9.142| 4.39 | 2.617| 1.518| 1.032| 0.565| 0.326| 0.244| 0.162| 0.04  | 0.015|
| Ann  | 93-94 | 99.9 | 43.55| 23.82| 8.901| 4.549| 2.991| 1.583| 1.057| 0.723| 0.377| 0.205| 0.109| 0.069| 0.045|
| Ann  | 94-95 | 99.84| 40.68| 23.17| 8.956| 4.157| 2.787| 1.667| 1.185| 0.936| 0.616| 0.353| 0.201| 0.138| 0.093|</p>
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Oklahoma

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