



Summary of Attenuation Observations for all 7 Sites
and Comparison to the Updated Model Predictions

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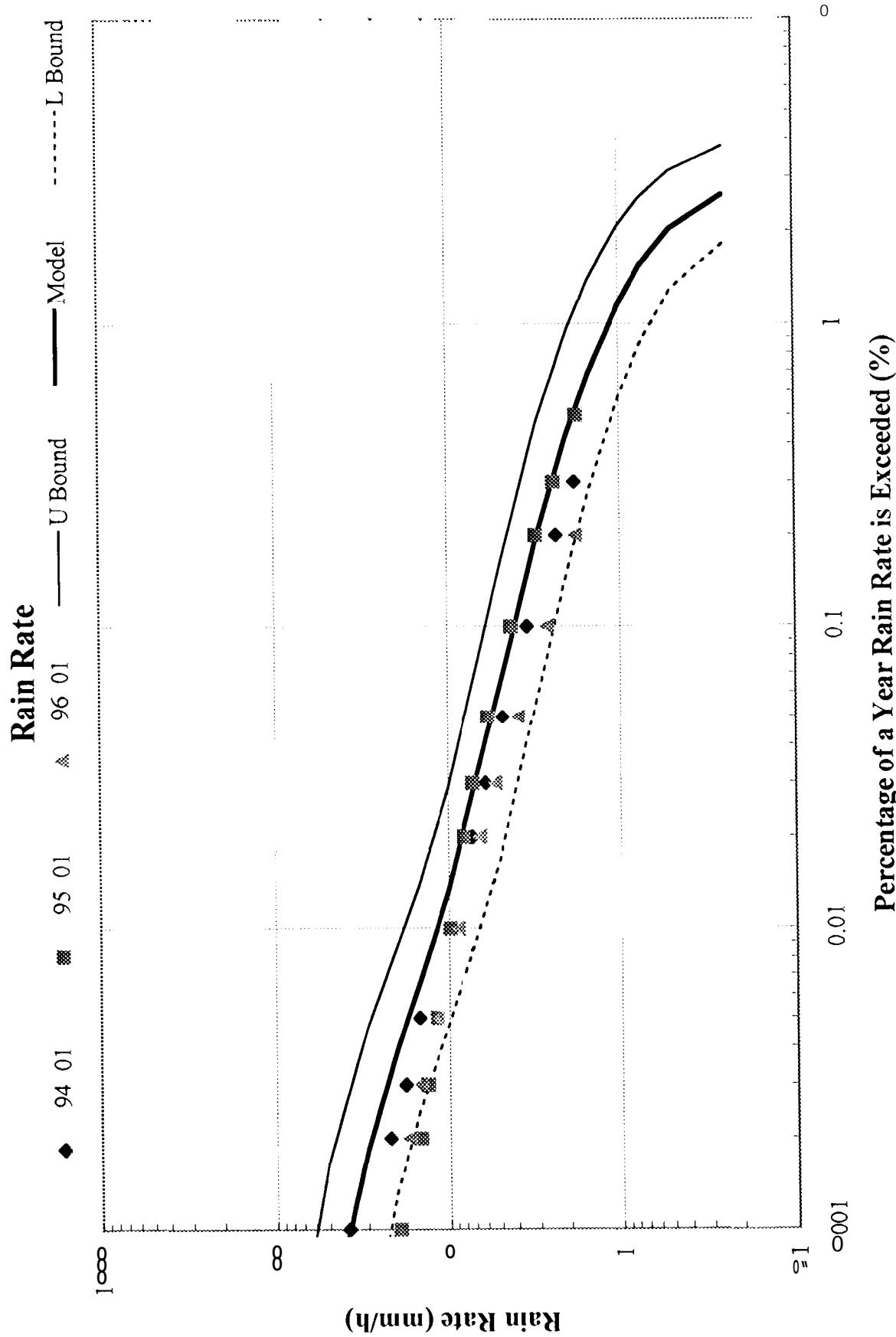
APSW XI

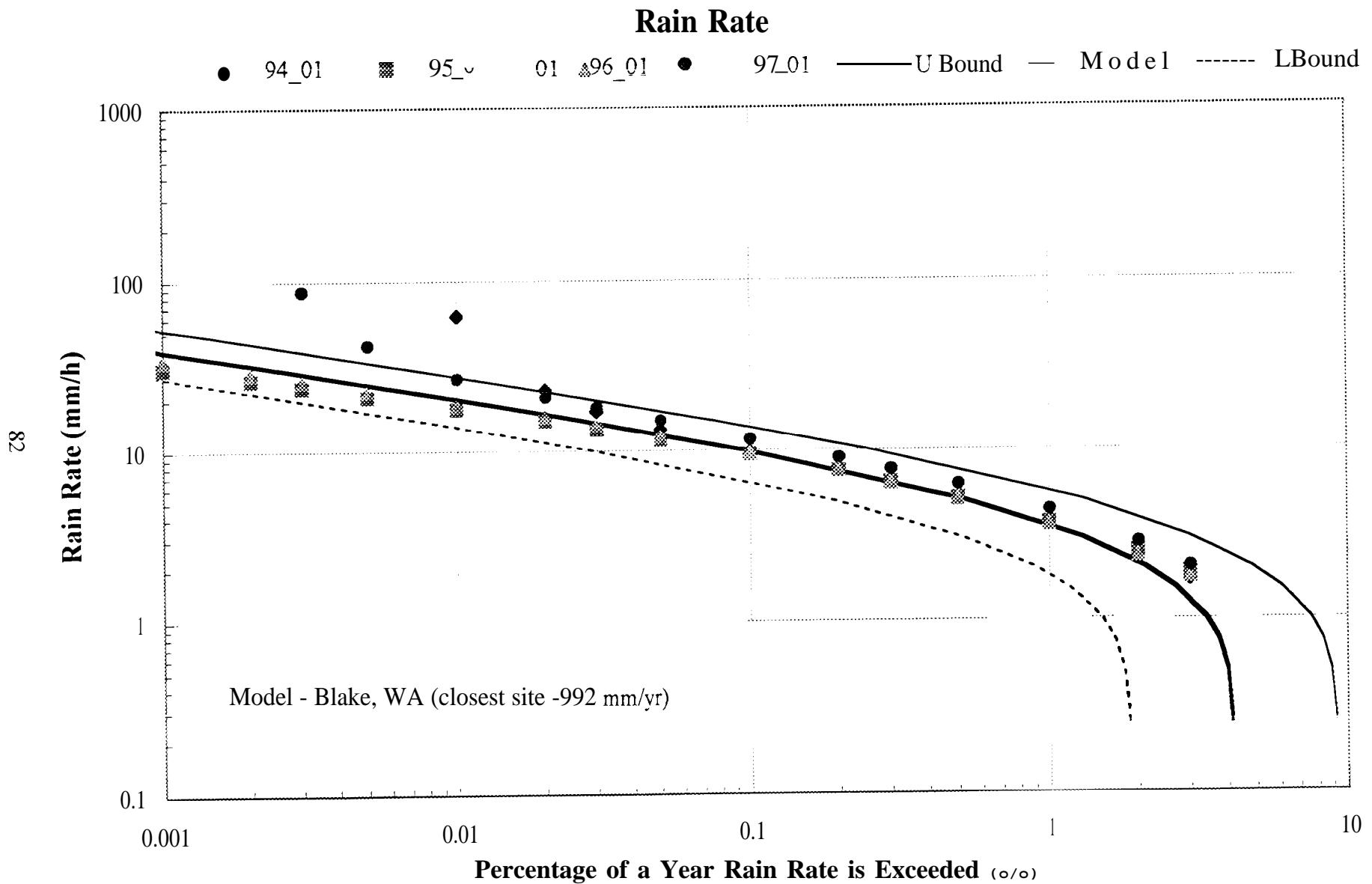
Oklahoma City, OK

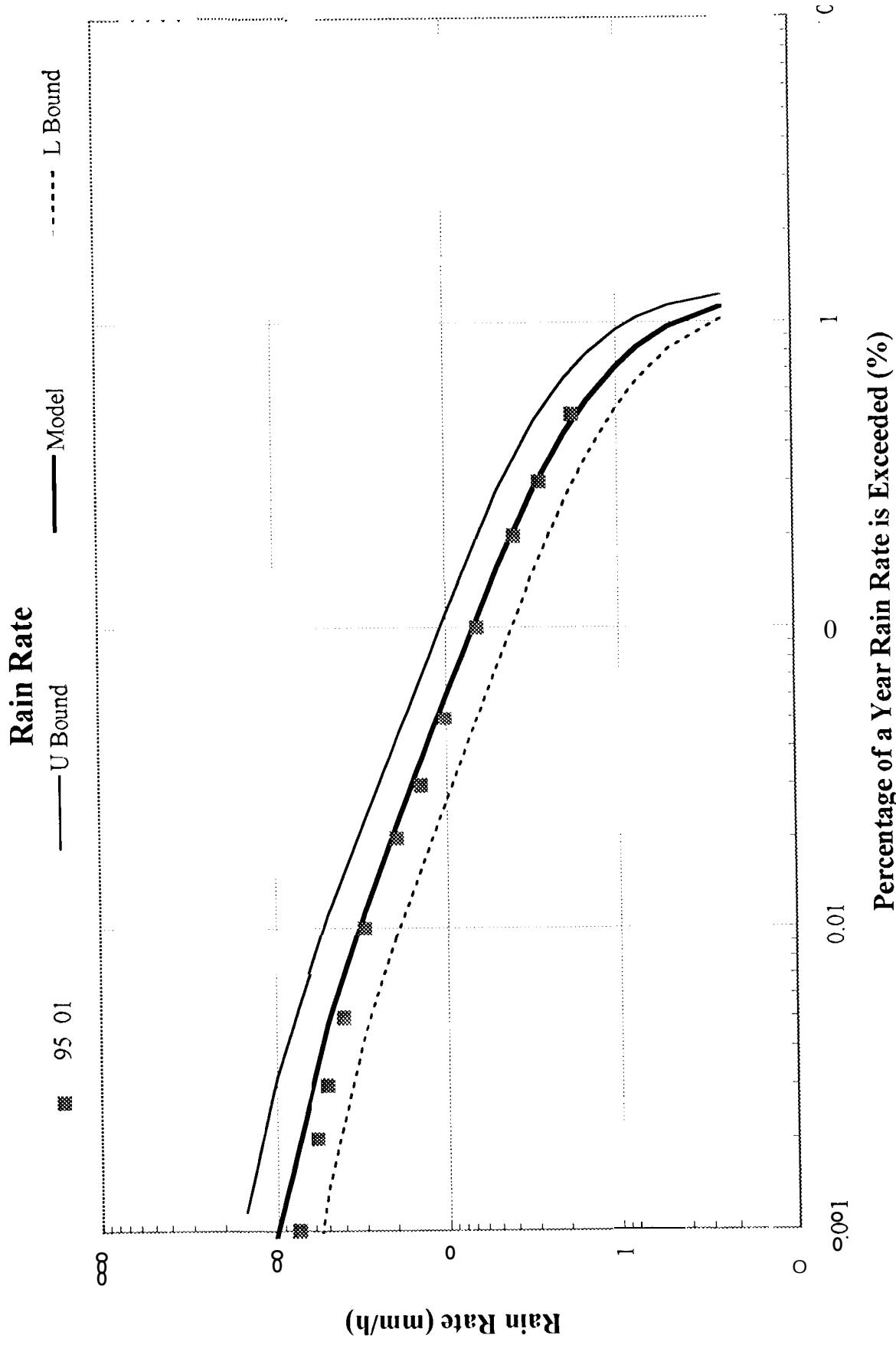
October 22-23, 1998

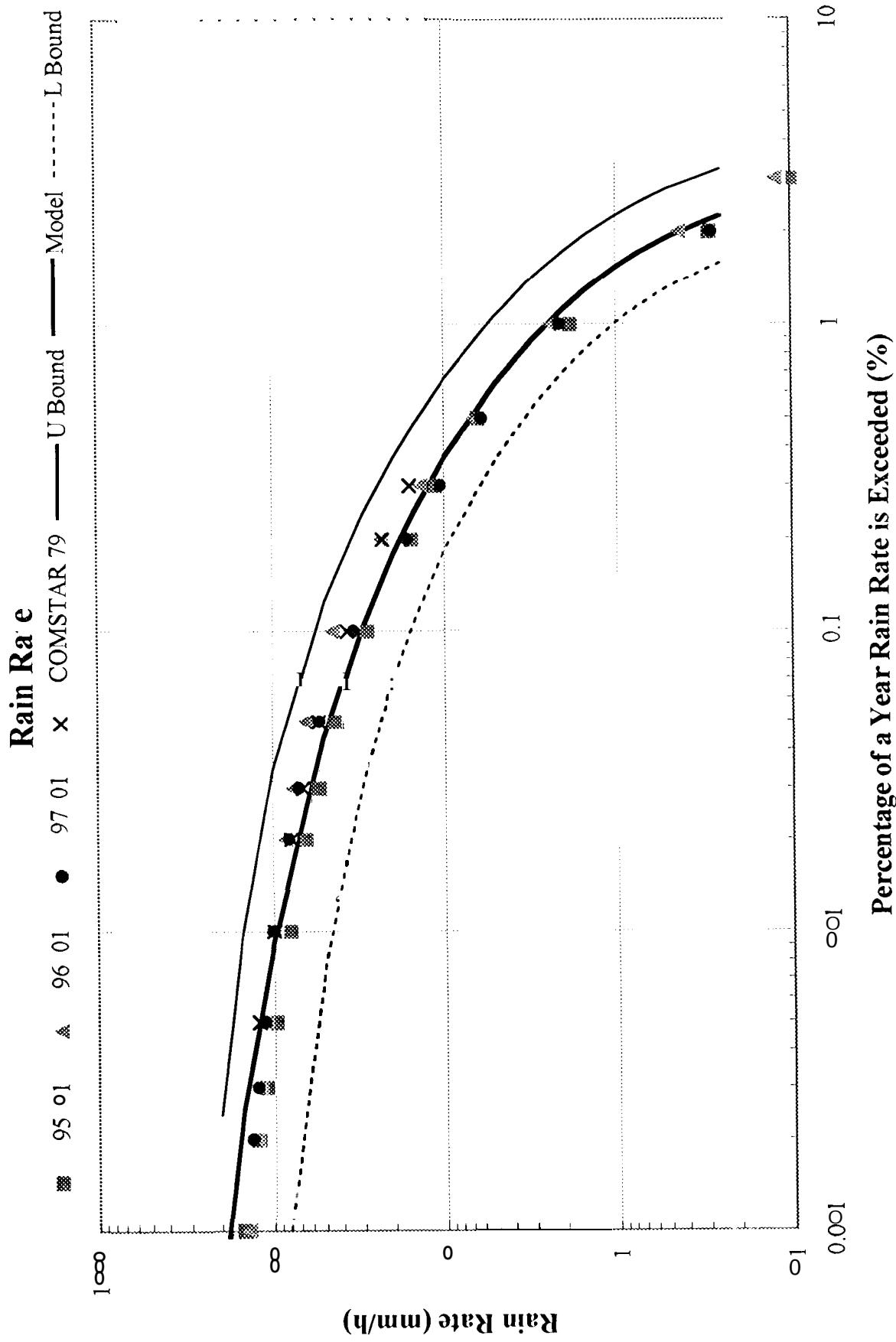
LOCAL MODEL IMPROVEMENTS

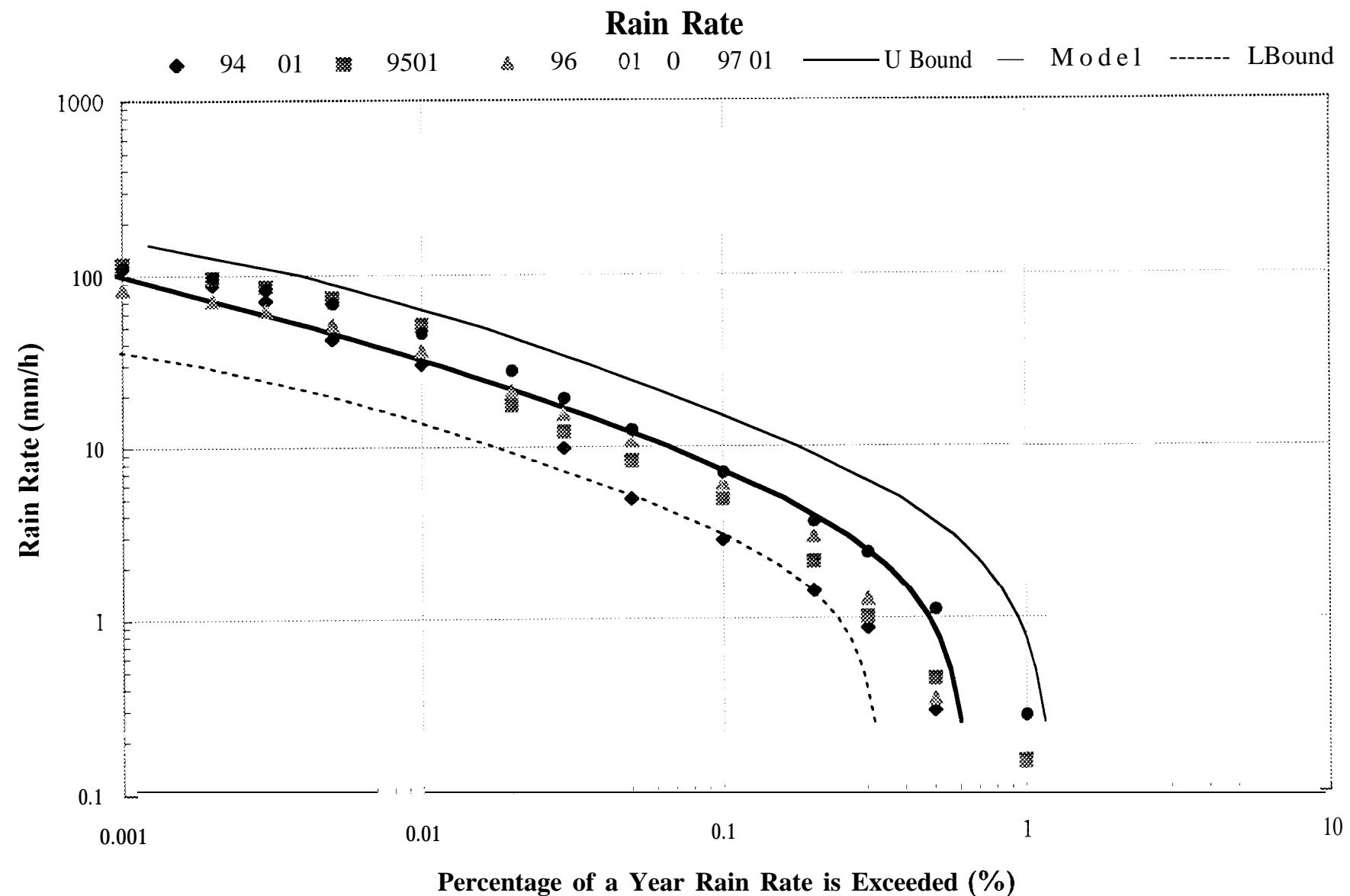
- **Model** for cell contributions to the rain-rate distribution is now consistent with the model for the cell contribution to attenuation.
- Rain-rate distribution model is revised so local **hourly** accumulation data can be combined with the cell component from the **local** model to produce adjusted debris component parameters - used for BC, CO and NM.
- The variability model has been improved using hourly rain accumulation data from **each** site in the local data base.
- ACTS empirical rain-rain rate distributions are consistent with the updated model predictions (lie within the 90% bounds).
- Corrected ACTS empirical attenuation distributions are consistent with earlier COMSTAR observations at sites where data are available - the corrections are for gaseous absorption and water on the antenna.
- Local or adjusted local attenuation model predictions are consistent with the corrected ACTS empirical attenuation distributions.

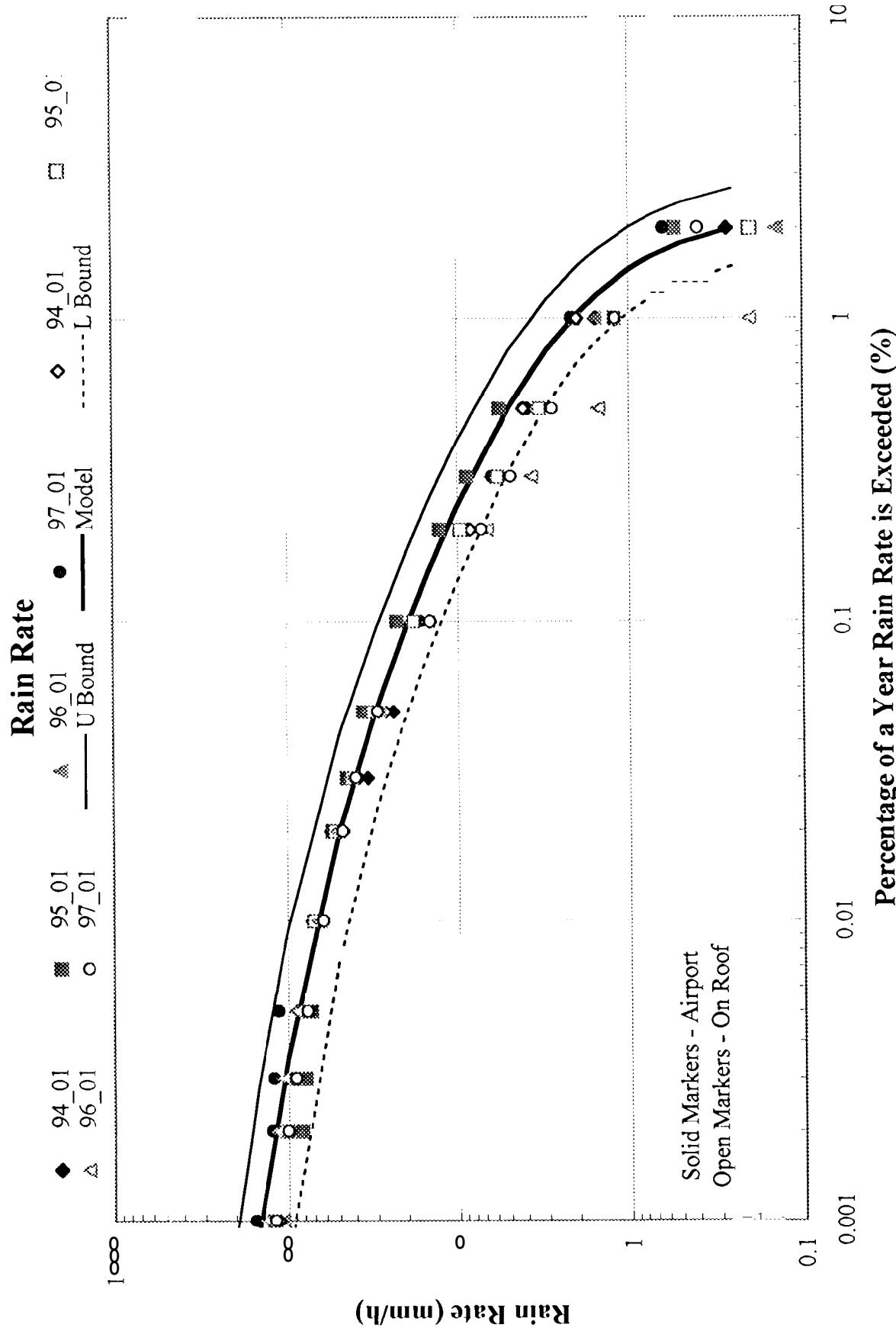


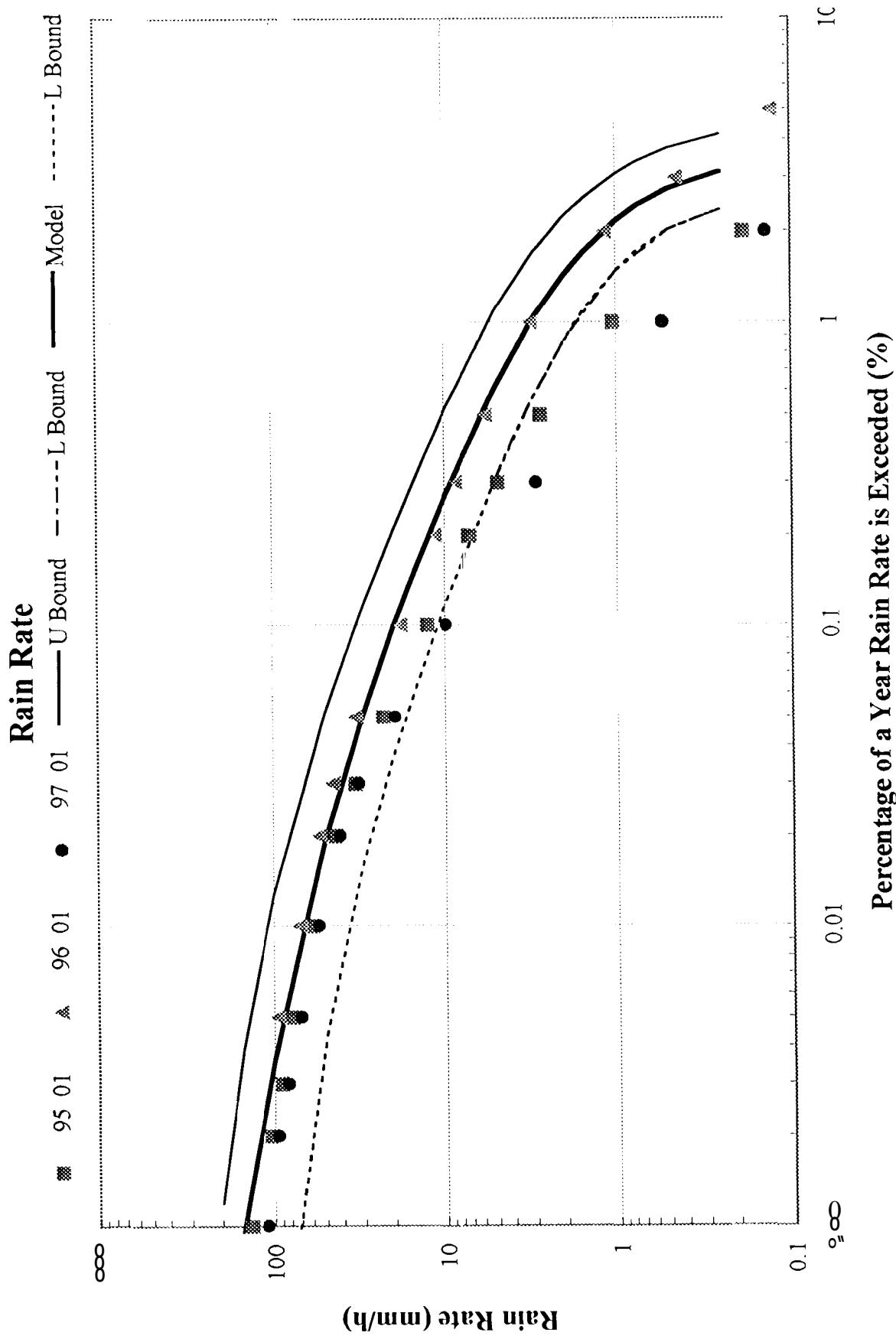


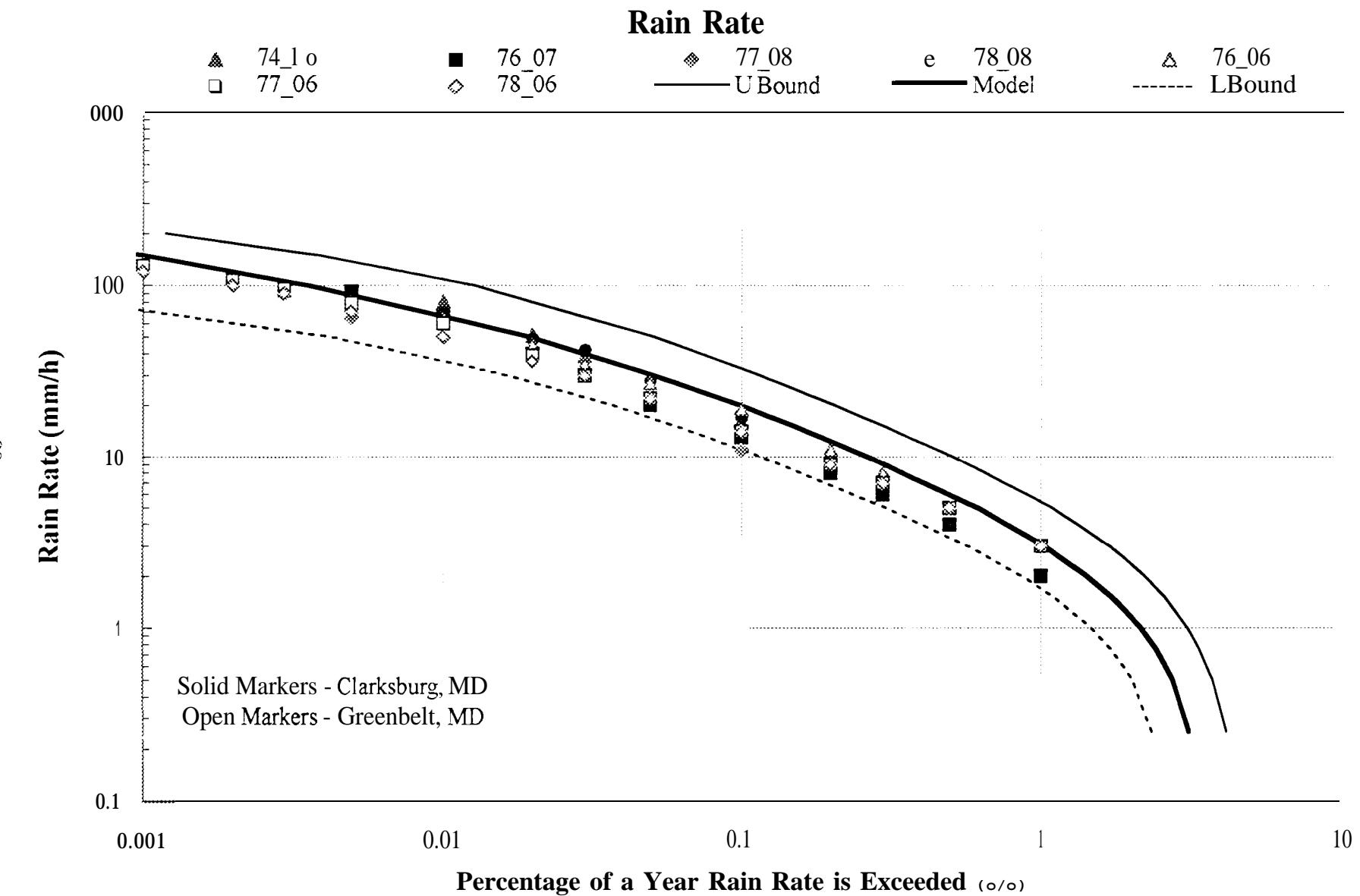


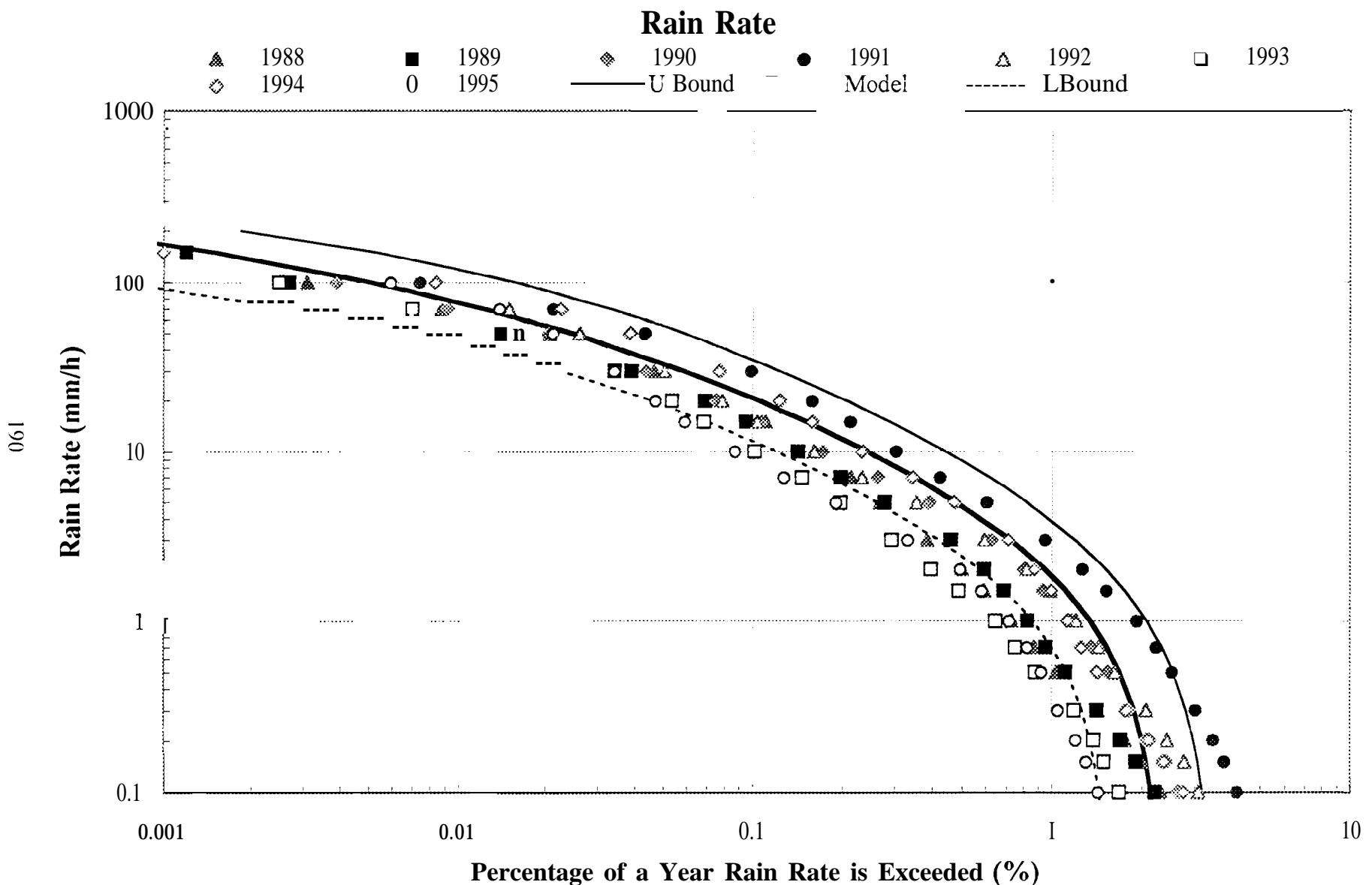


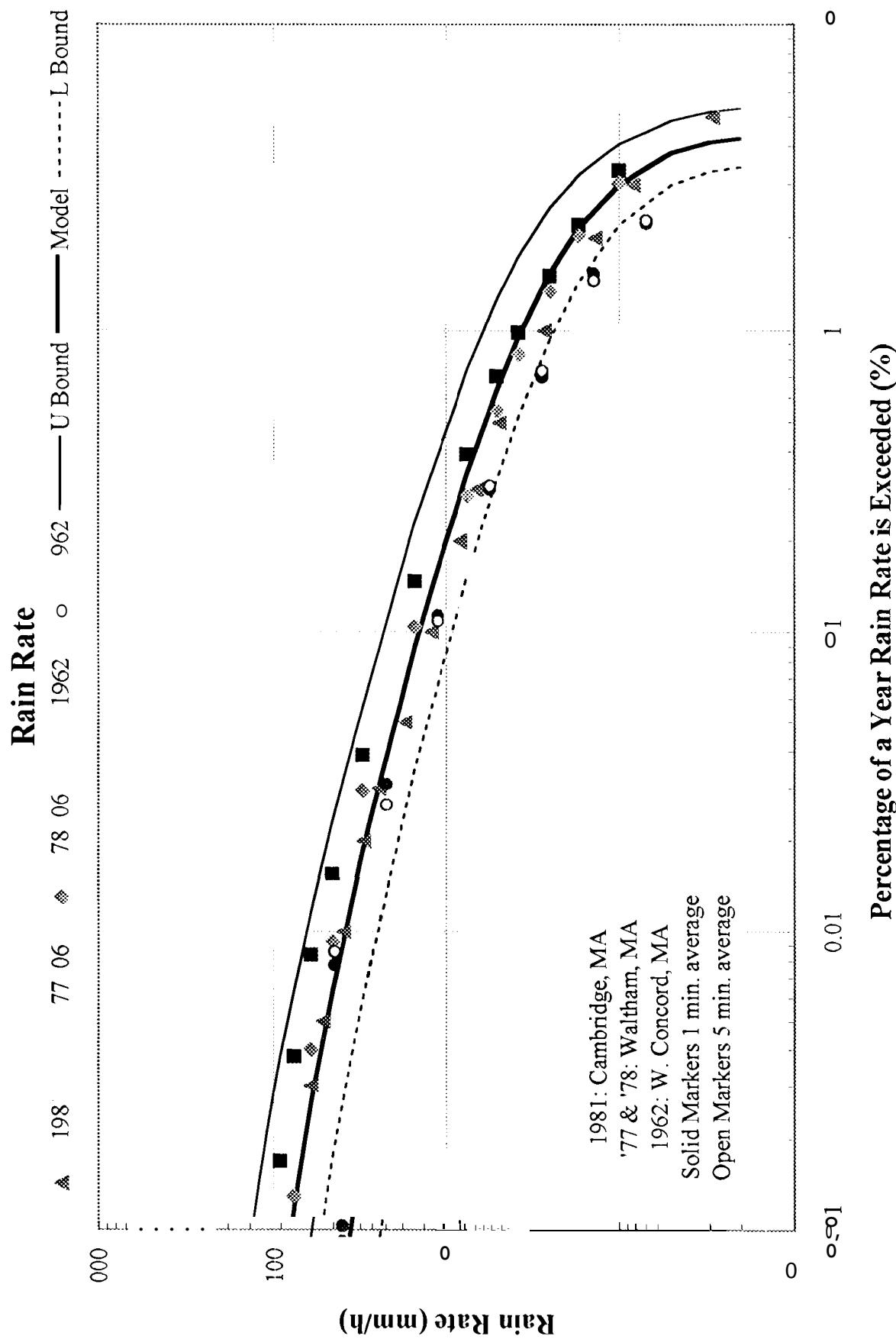


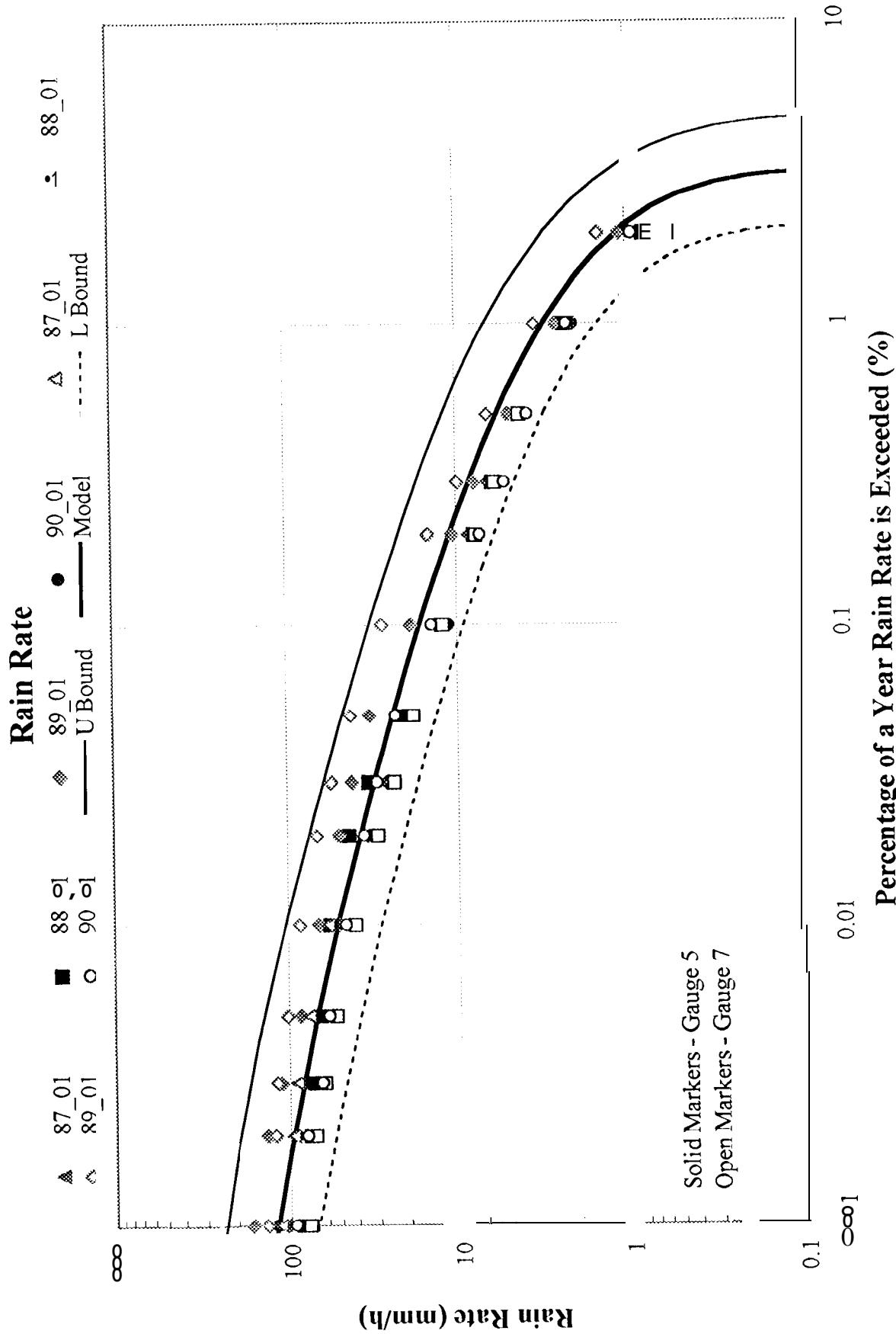


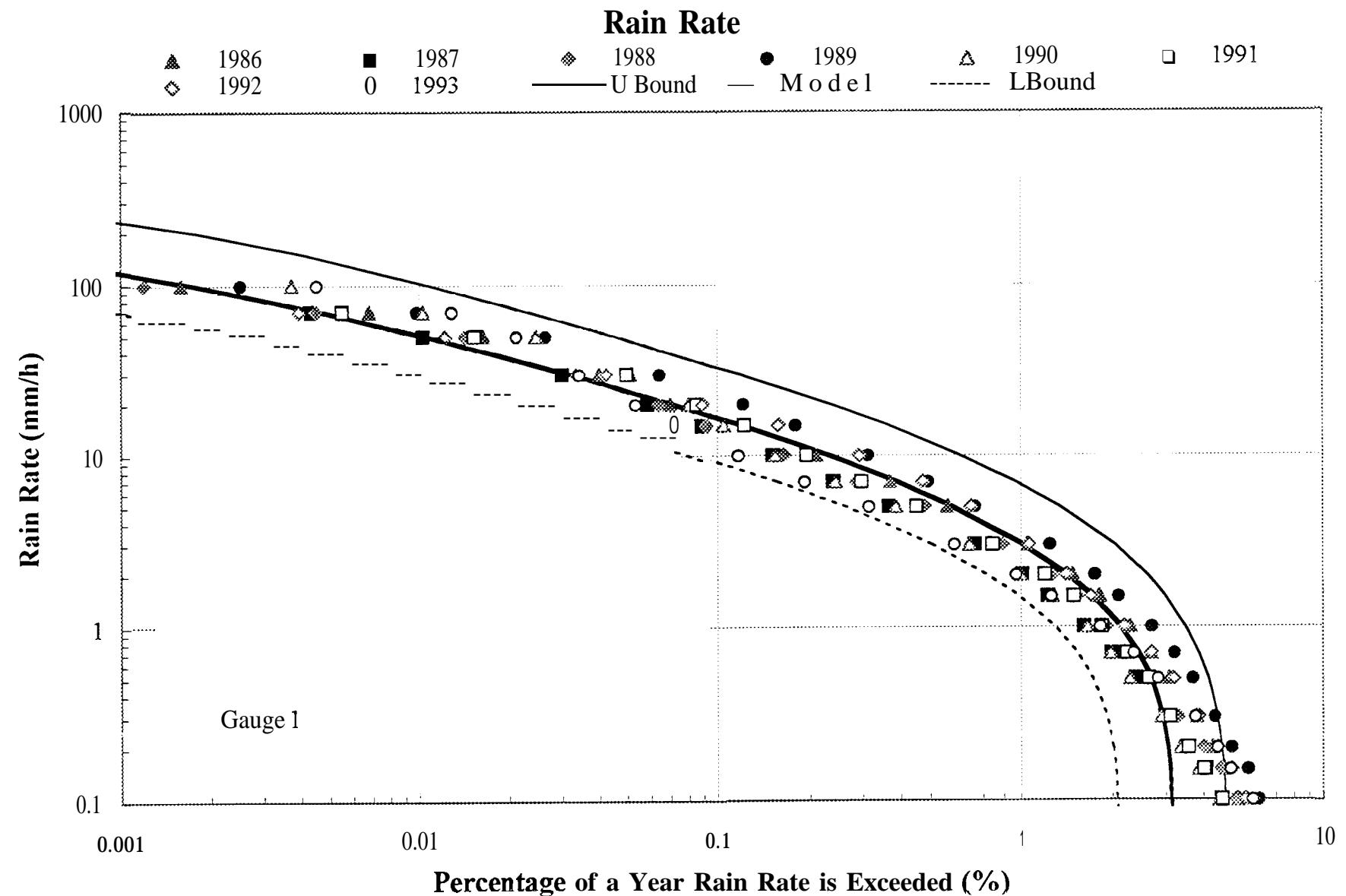








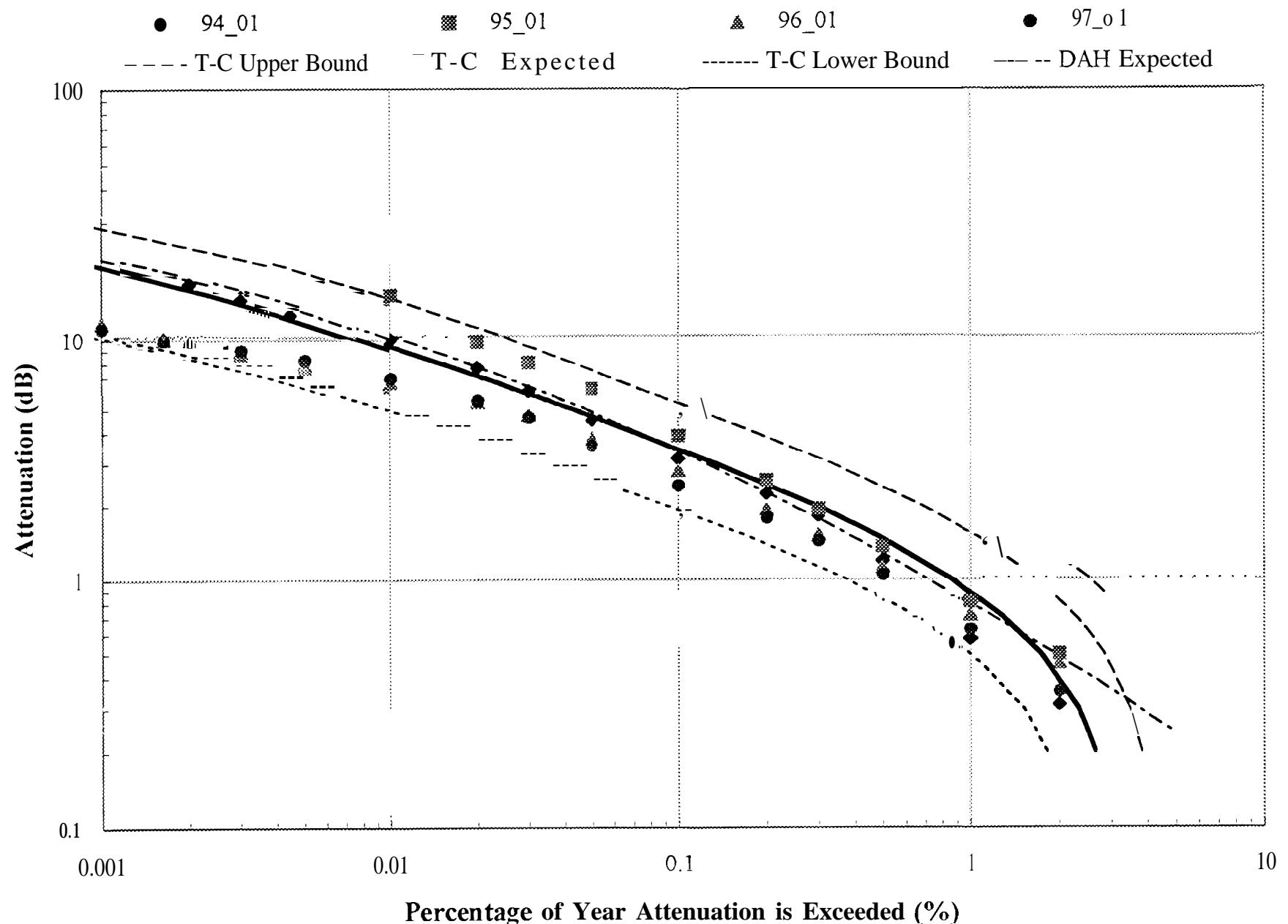




20.2 GHz, Alaska

Attenuation Relative to Clear Sky
Corrected for Antenna Wetting

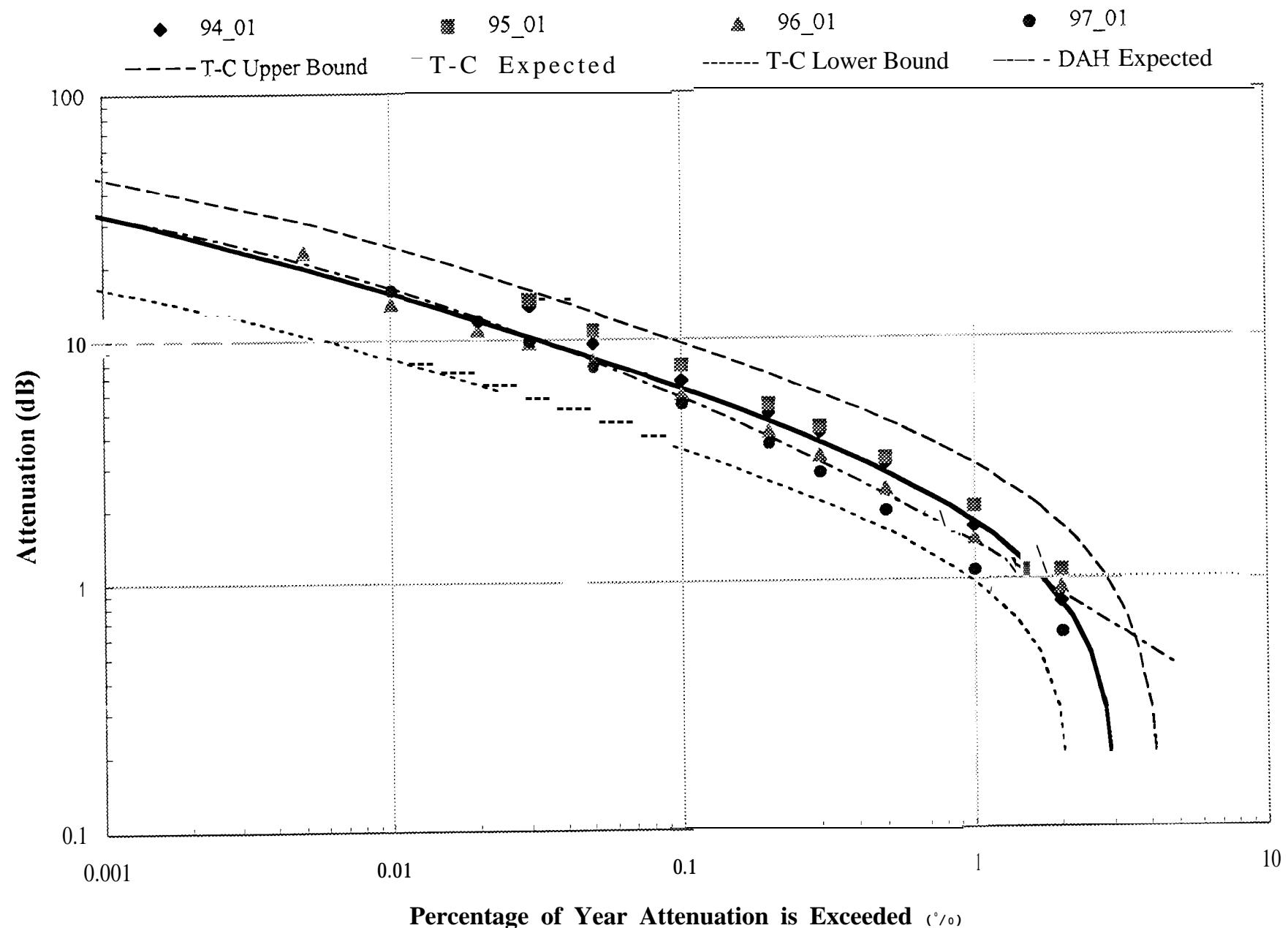
ACTS Propagation Experiment



27.5 GHz, Alaska

Attenuation Relative to Clear Sky
Corrected for Antenna Wetting

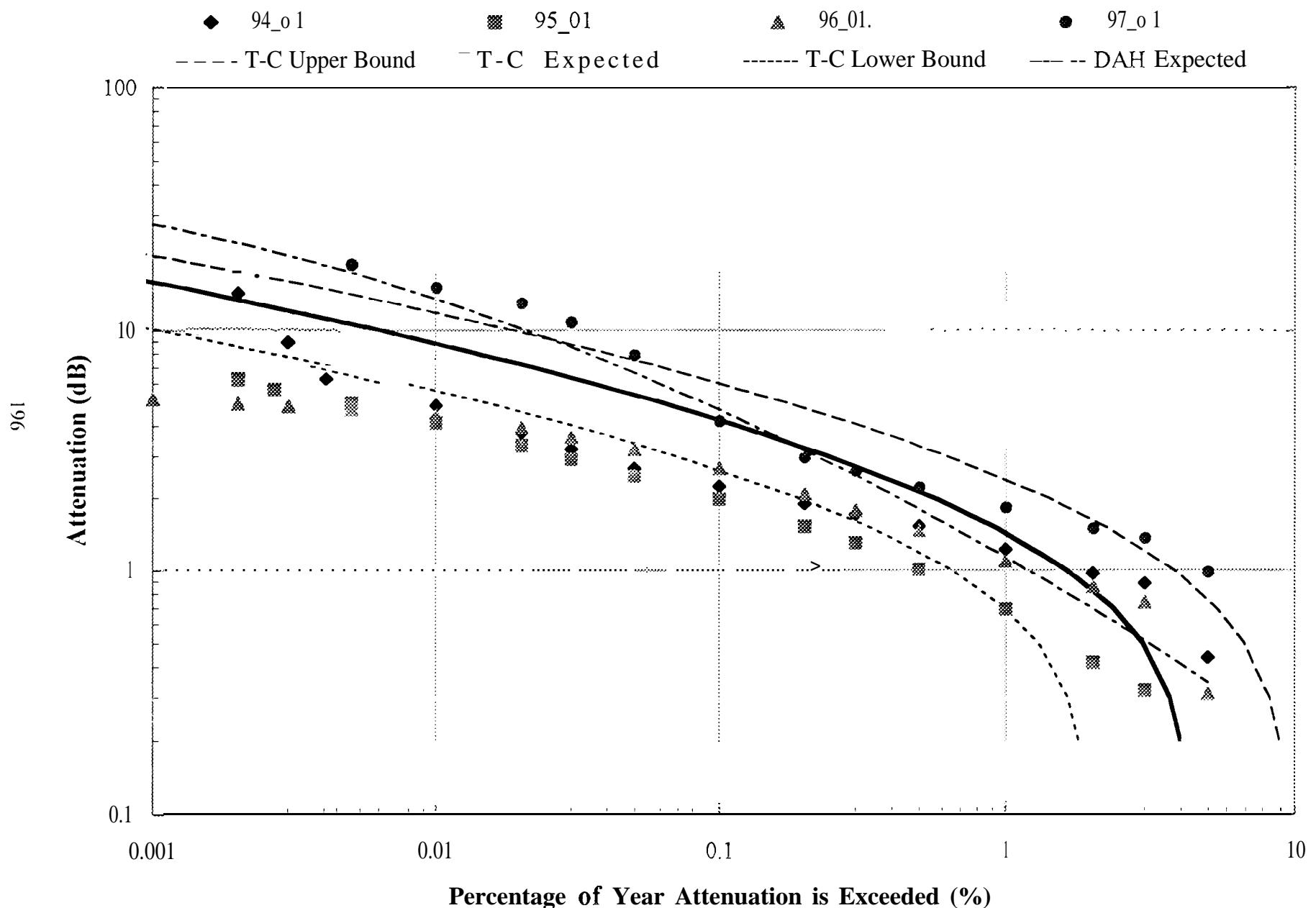
ACTS Propagation Experiment



20.2 GHz, British Columbia

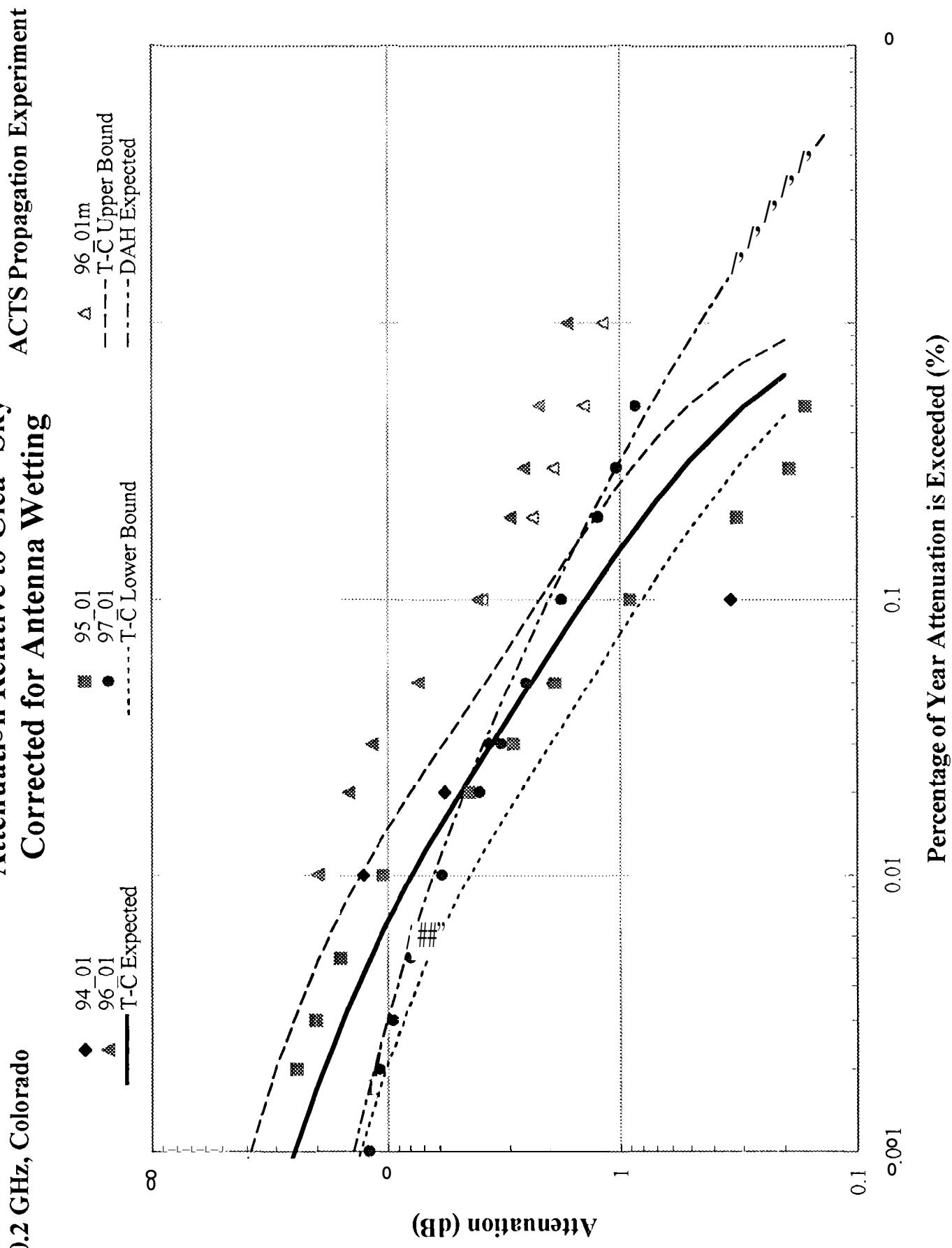
Attenuation Relative to Clear Sky
Corrected for Antenna Wetting

ACTS Propagation Experiment



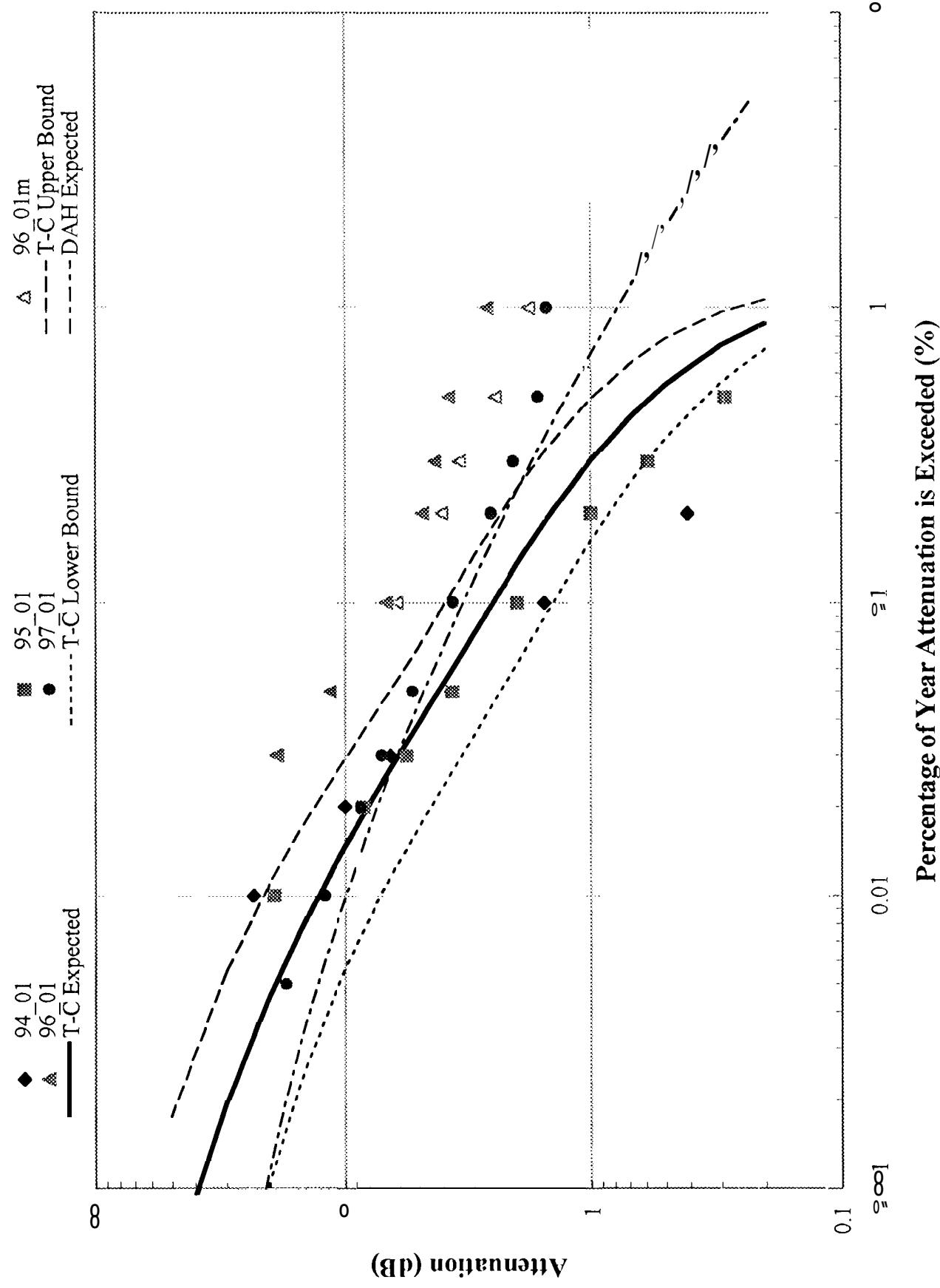
20.2 GHz, Colorado

Attenuation Relative to Clea Sky Corrected for Antenna Wetting



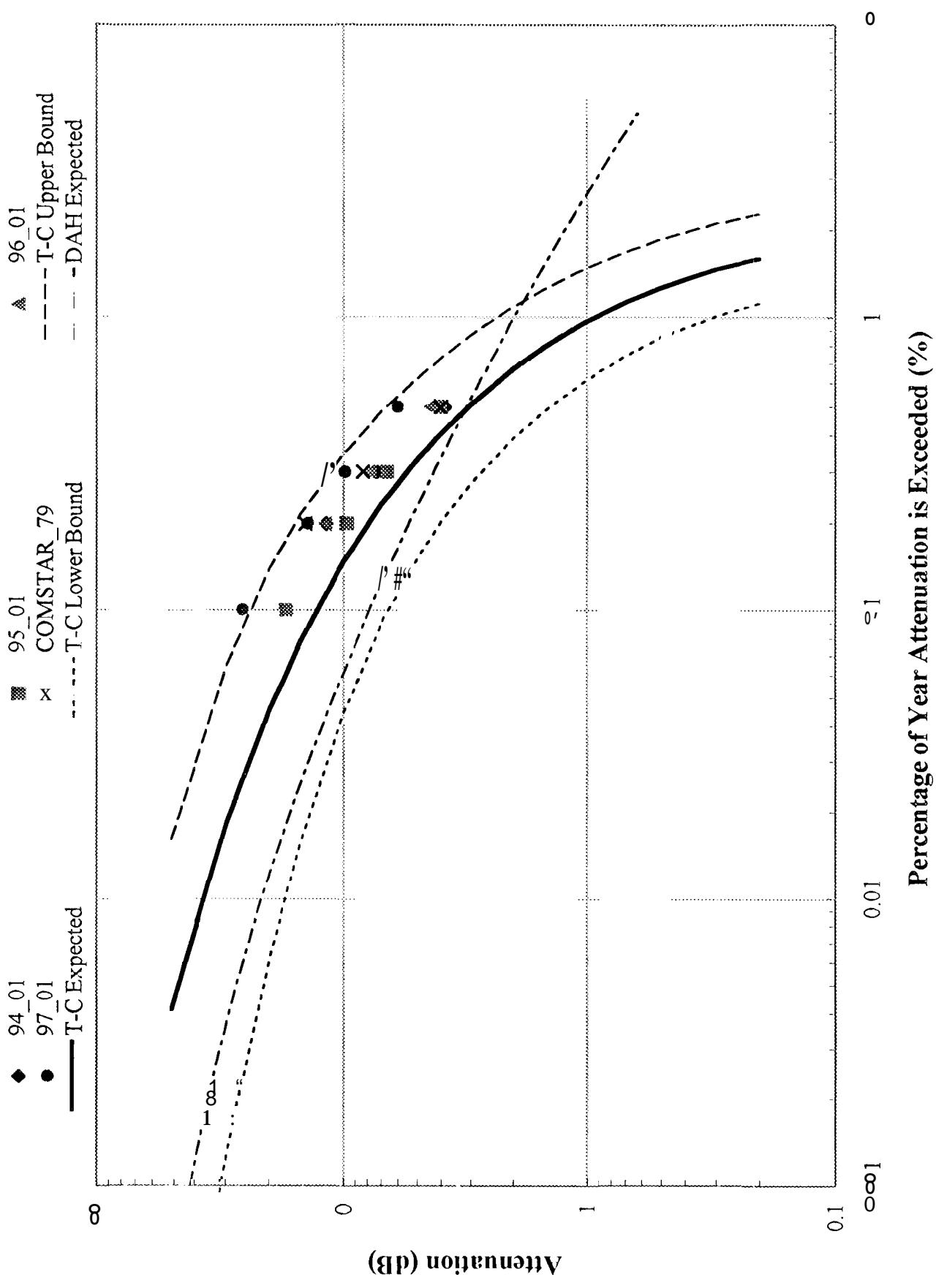
27.5 GHz, Colorado

Attenuation Relative to Clear Sky Corrected for Antenna Wetting



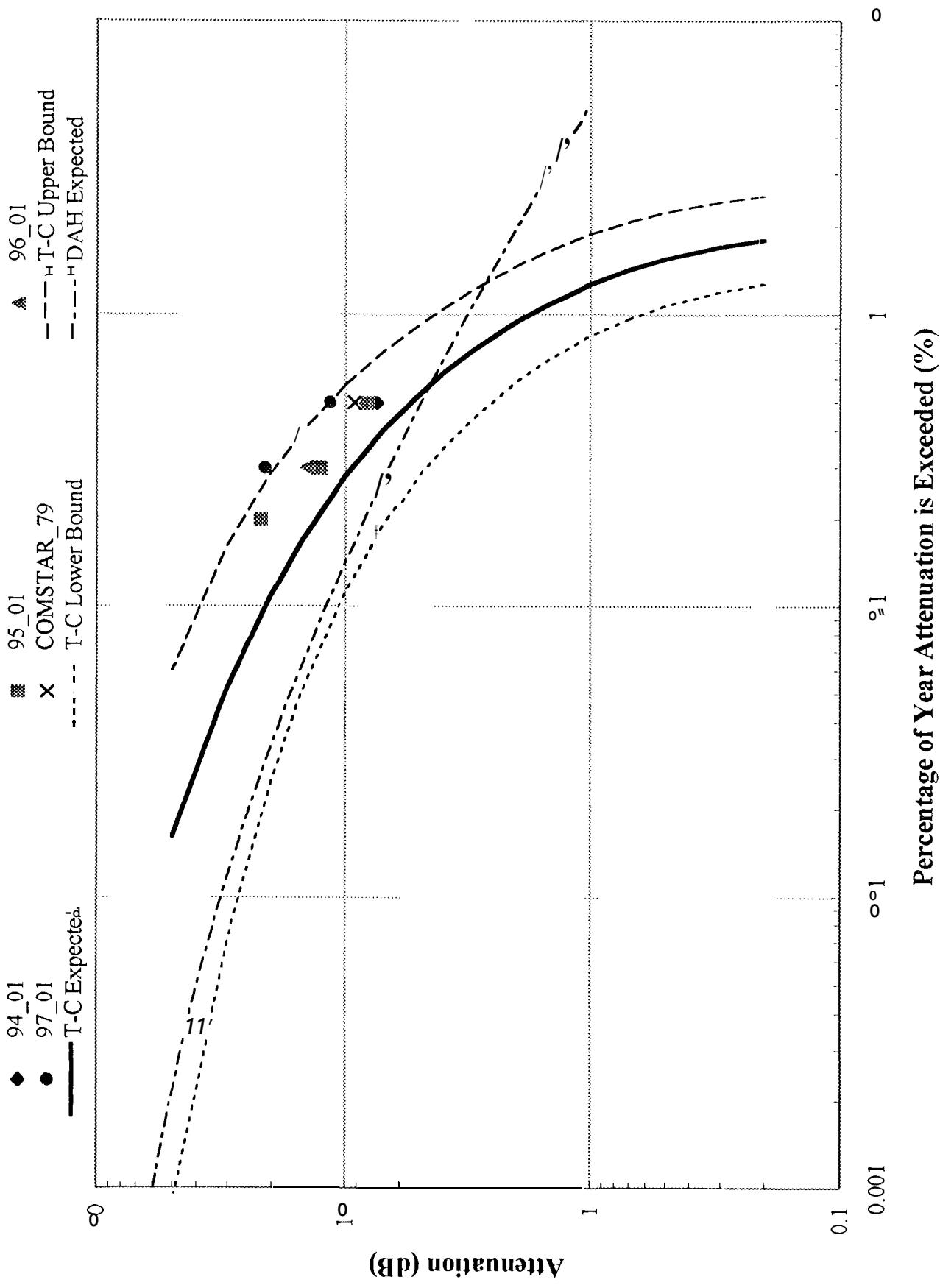
20.2 GHz, Florida

Attenuation Relative to Clear Sky Corrected for Antenna Wetting



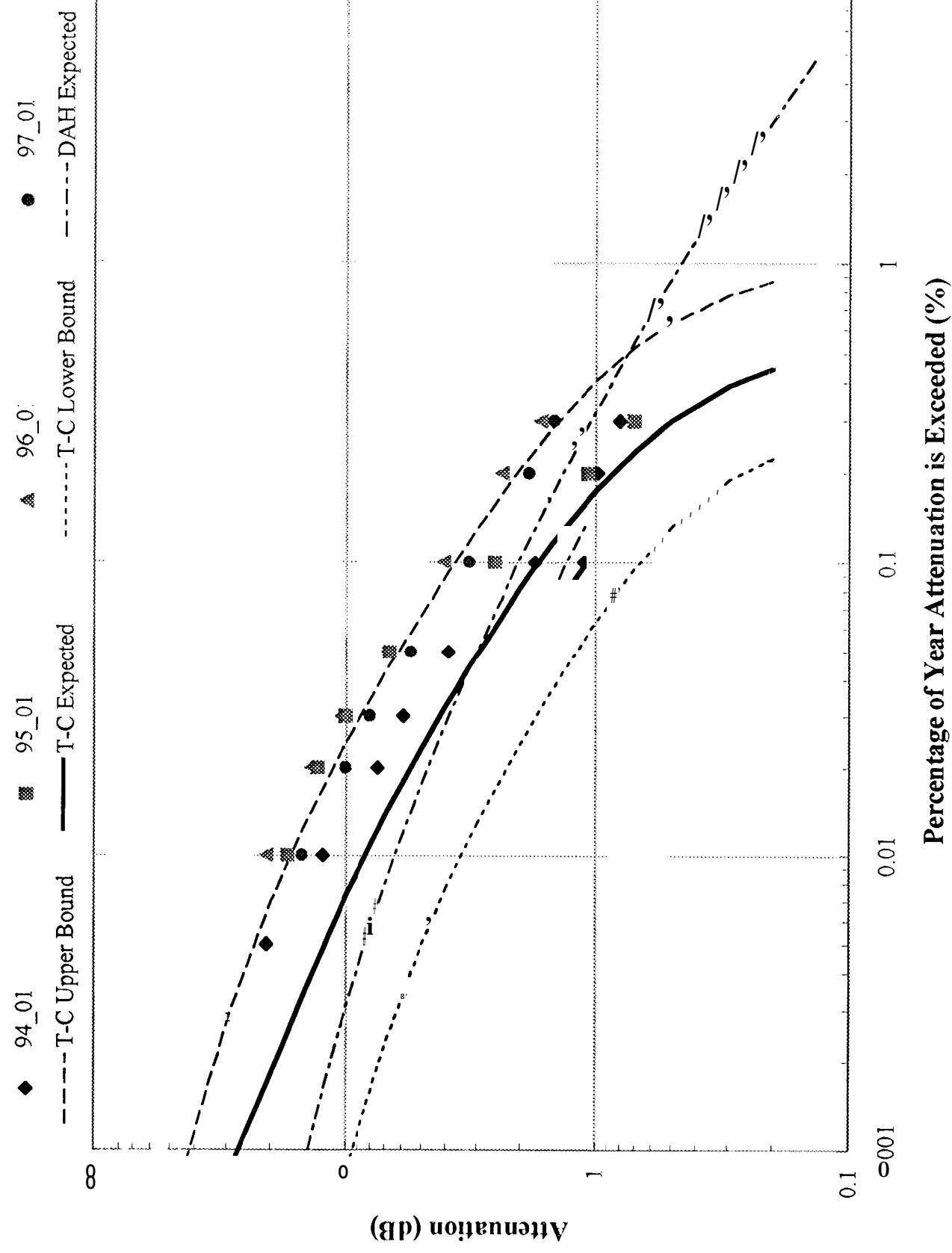
27.5 GHz, Florida

Attenuation Relative to Clear Sky Corrected for Antenna Wetting



20.2 GHz, New Mexico

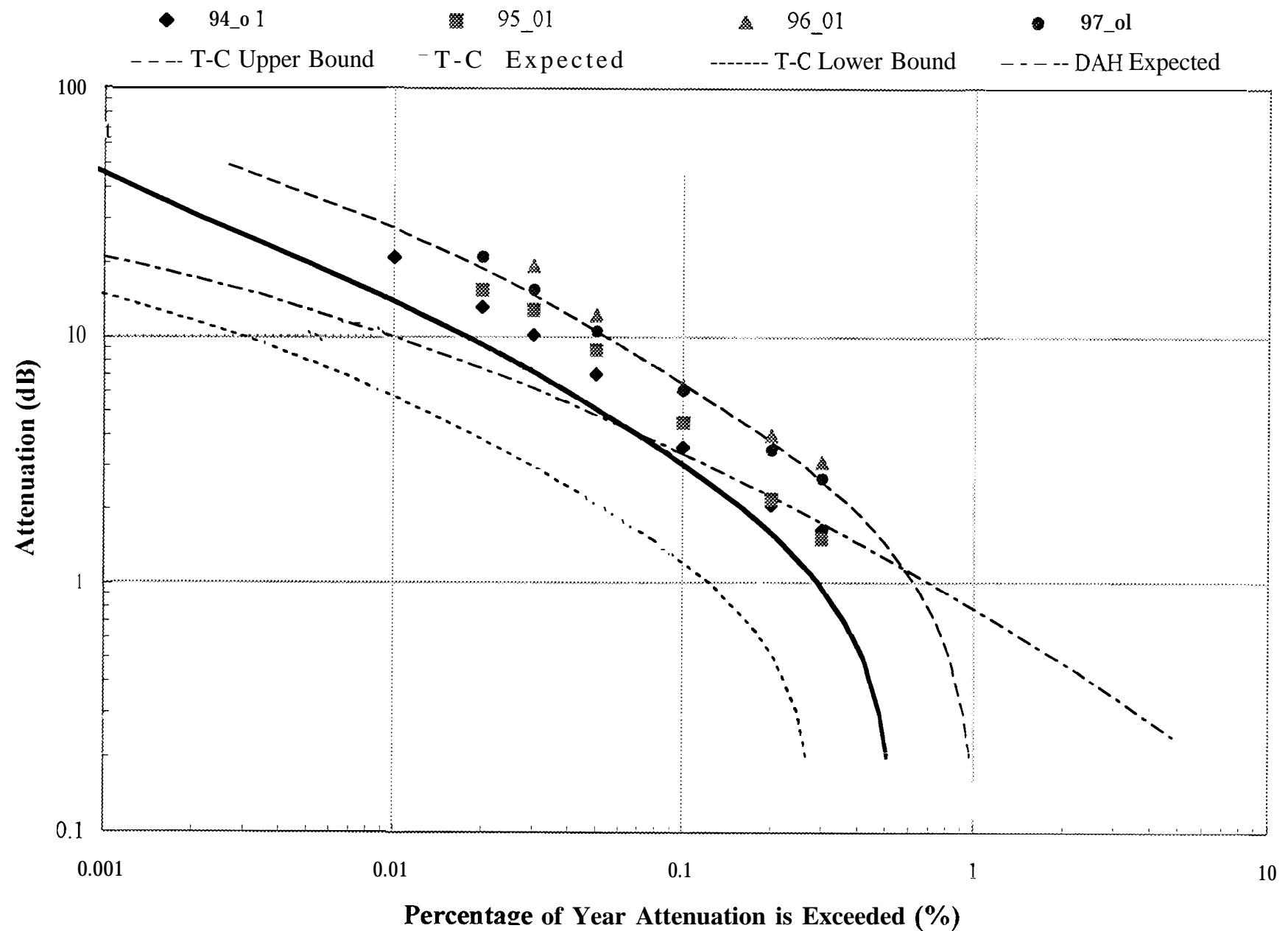
Attenuation Relative to Clear Sky Corrected for Antenna Wetting



27.5 GHz, New Mexico

Attenuation Relative to Clear Sky Corrected for Antenna Wetting

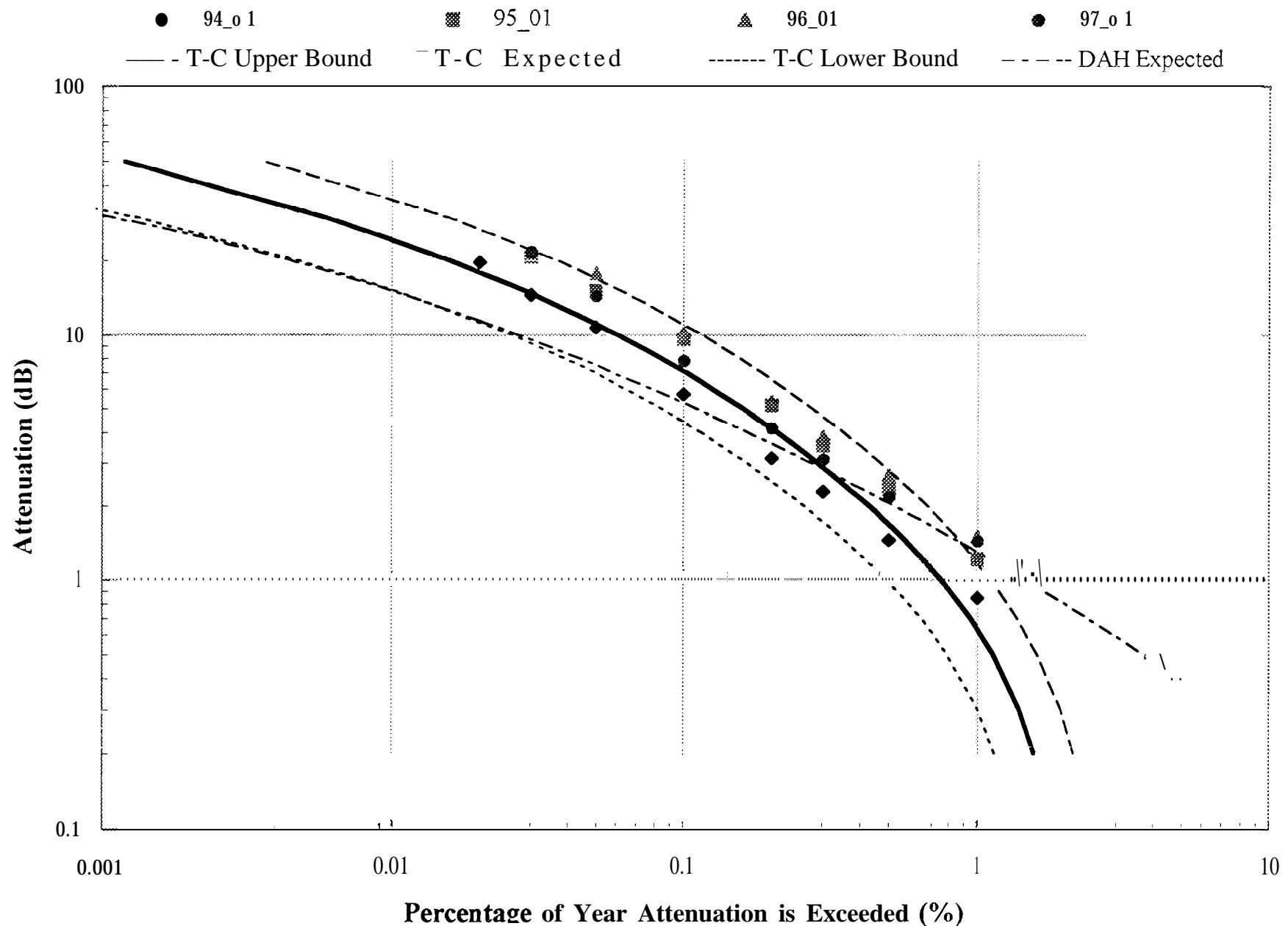
ACTS Propagation Experiment



20.2 GHz, Oklahoma

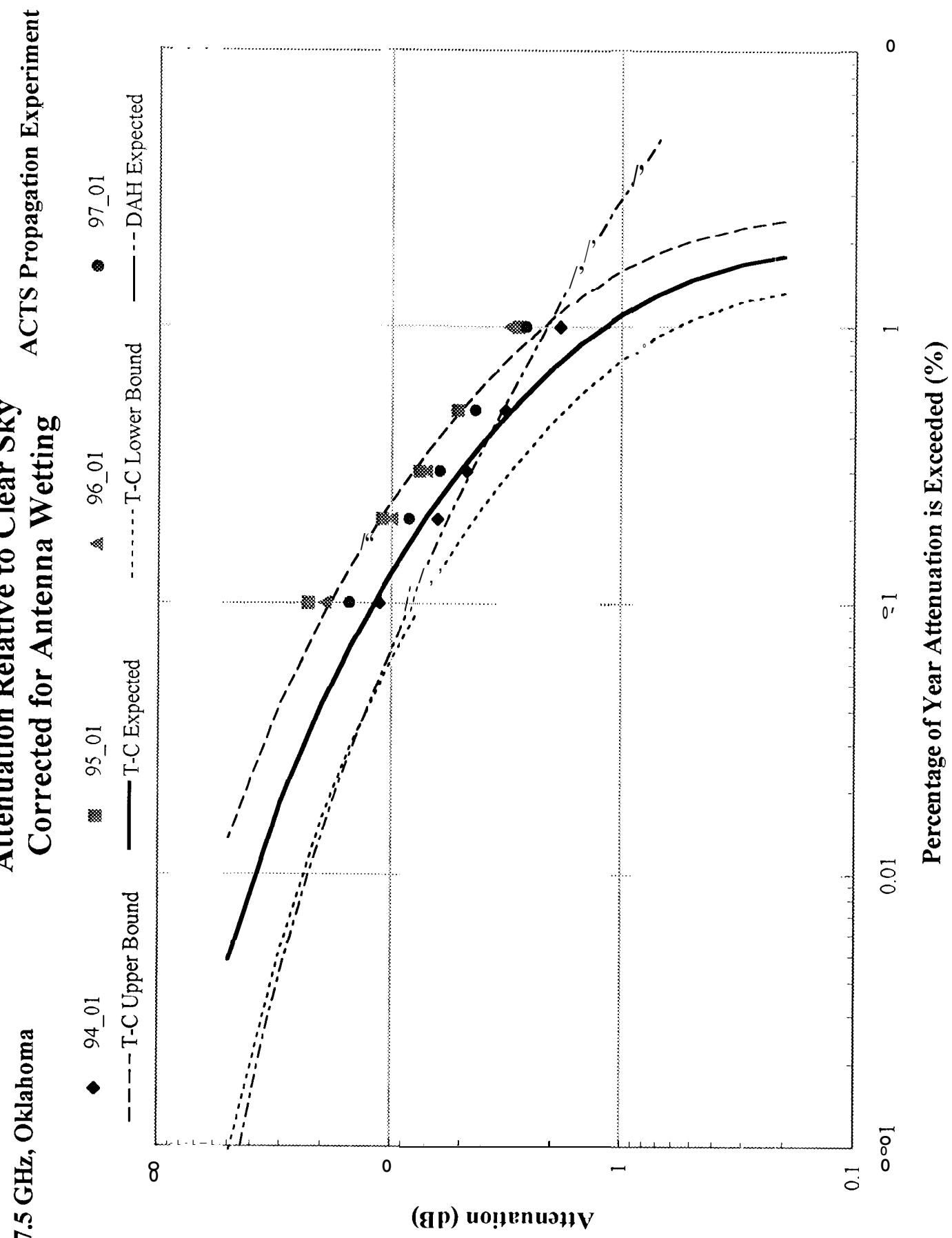
Attenuation Relative to Clear Sky Corrected for Antenna Wetting

ACTS Propagation Experiment



27.5 GHz, Oklahoma

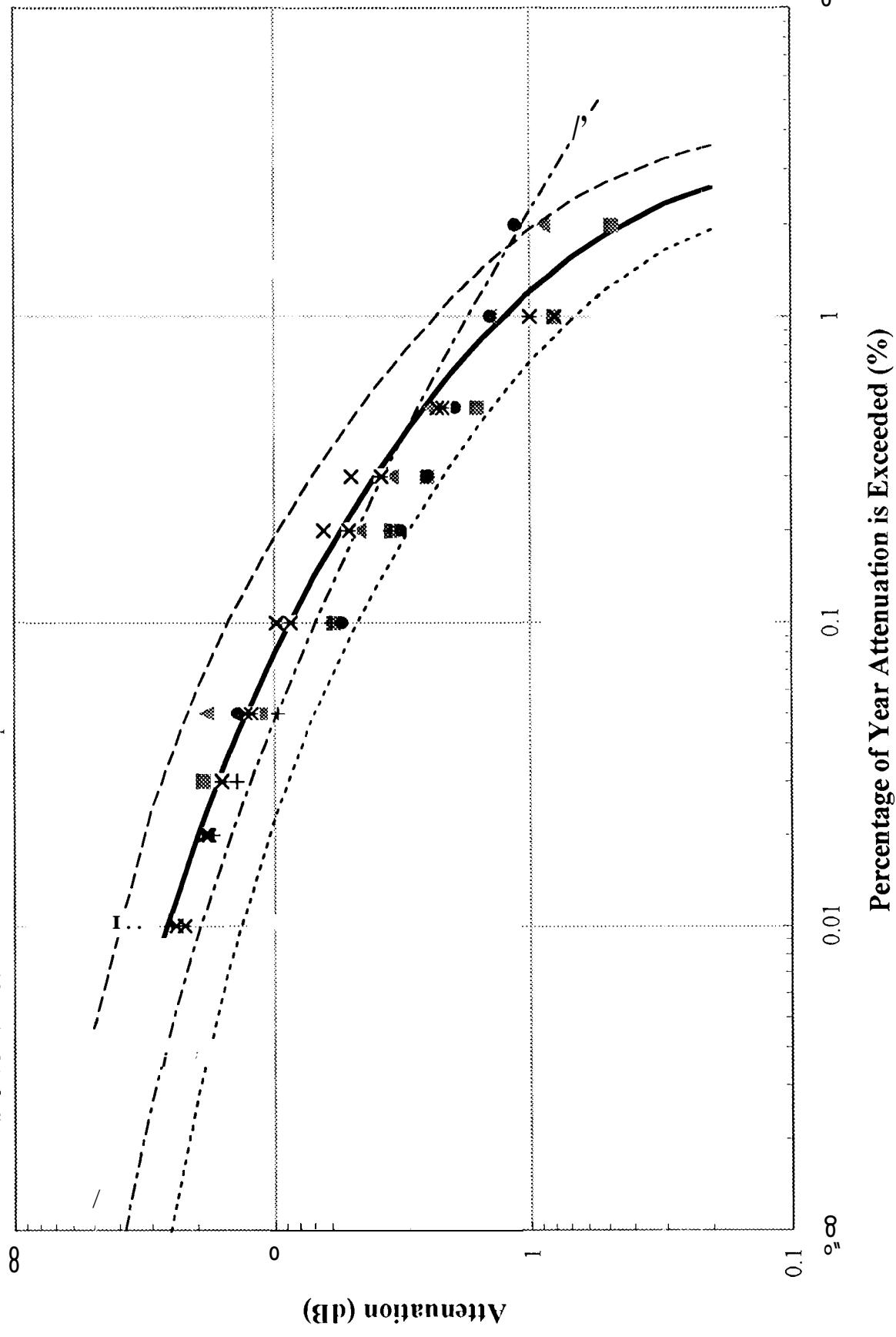
Attenuation Relative to Clear Sky Corrected for Antenna Wetting



20.2 GHz, Virginia

Attenuation Relative to Clear Sky Corrected for Antenna Wetting

■ 95_01 ▲ 96_01 ● 97_01
+ COMSTAR_77 × COMSTAR_78 - DAH Expected
- T-C Lower Bound - T-C Upper Bound

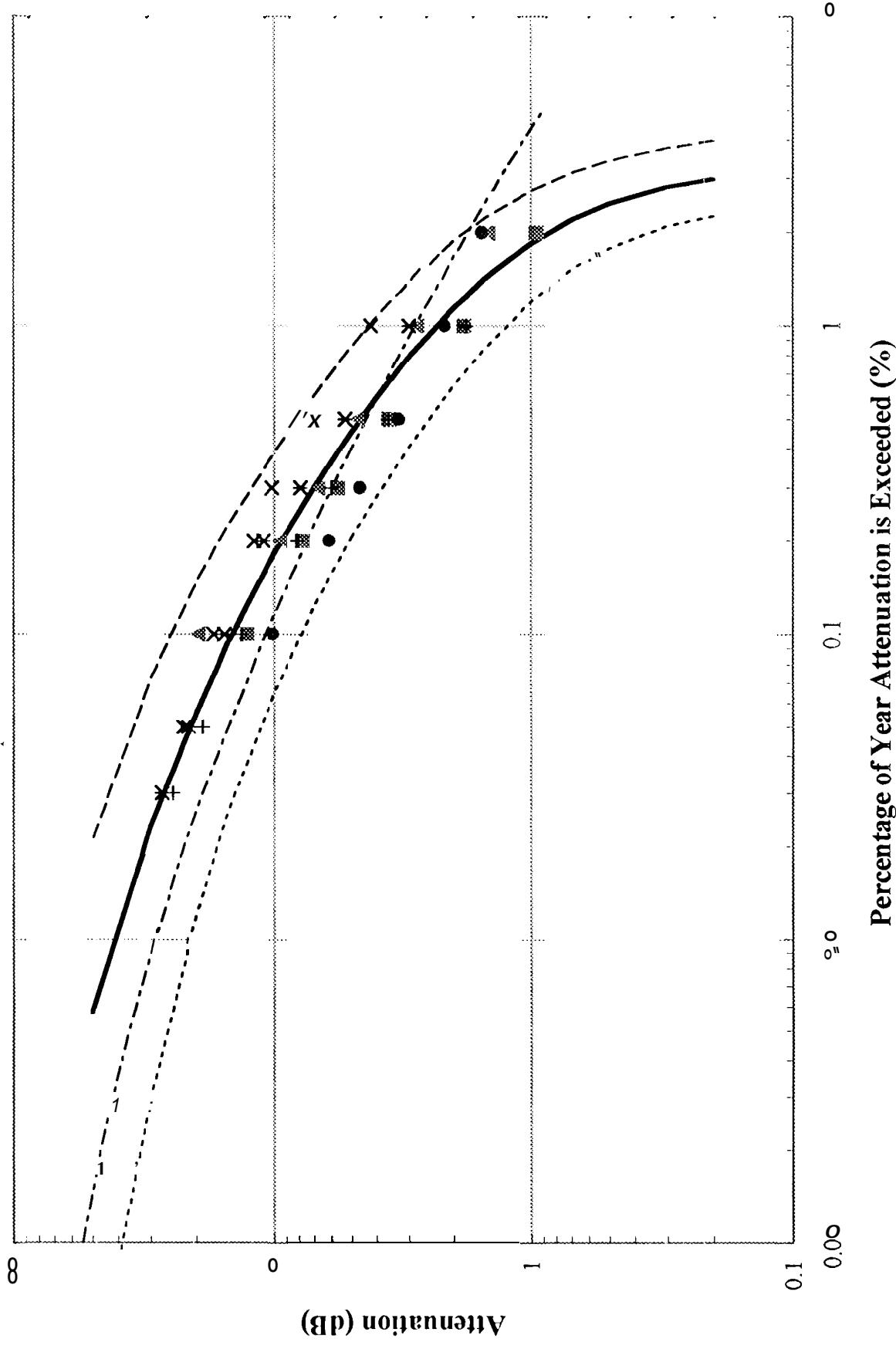


27.5 GHz, Virginia

Attenuation Relative to Clear Sky Corrected for Antenna Wetting

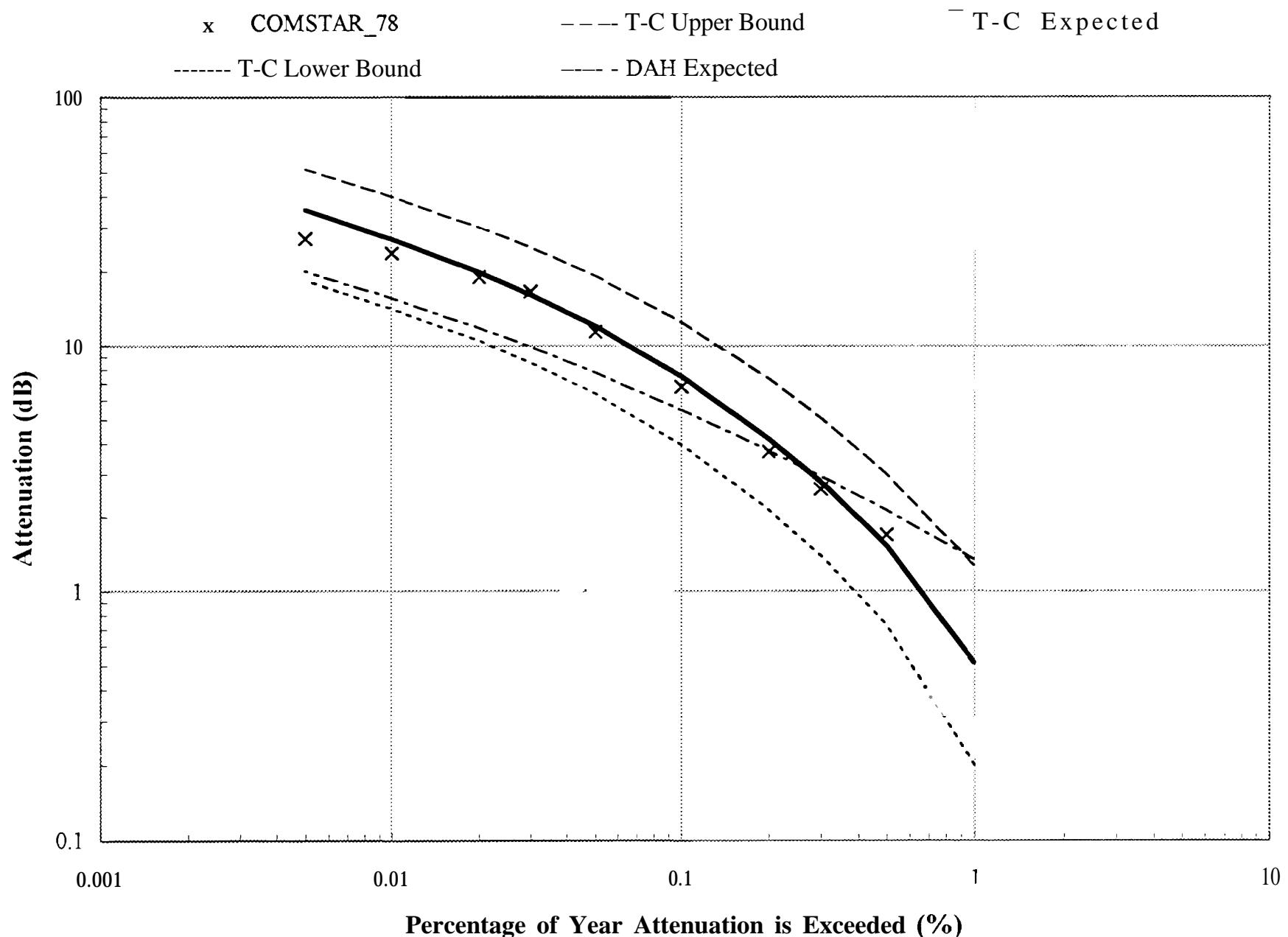
■ 95_01
+ COMSTAR_77
- T-C Lower Bound
- DAH Expected

▲ 96_01
× COMSTAR_78
- T-C Upper Bound



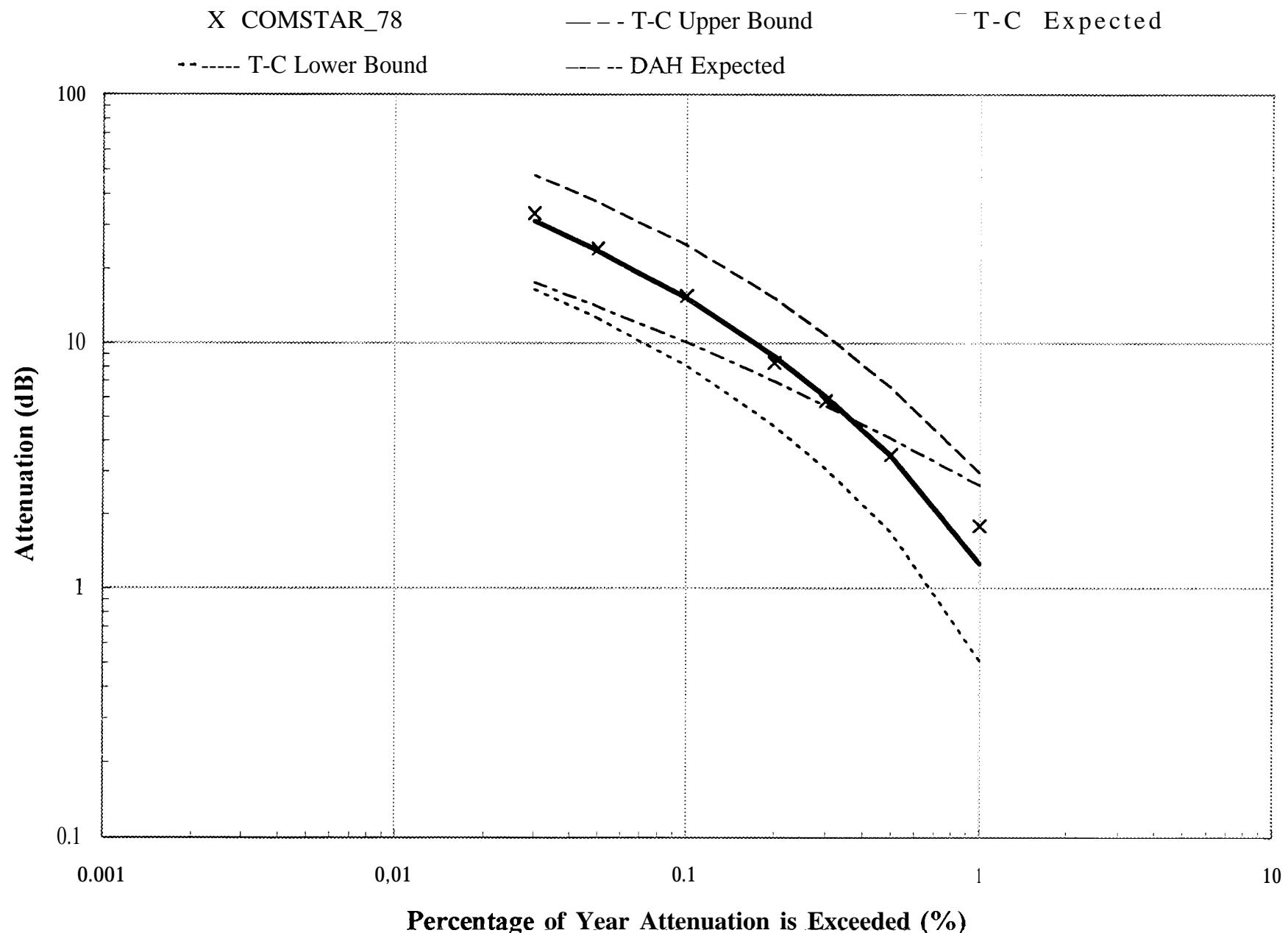
19.0 GHz, Austin, TX

Attenuation Relative to Clear Sky



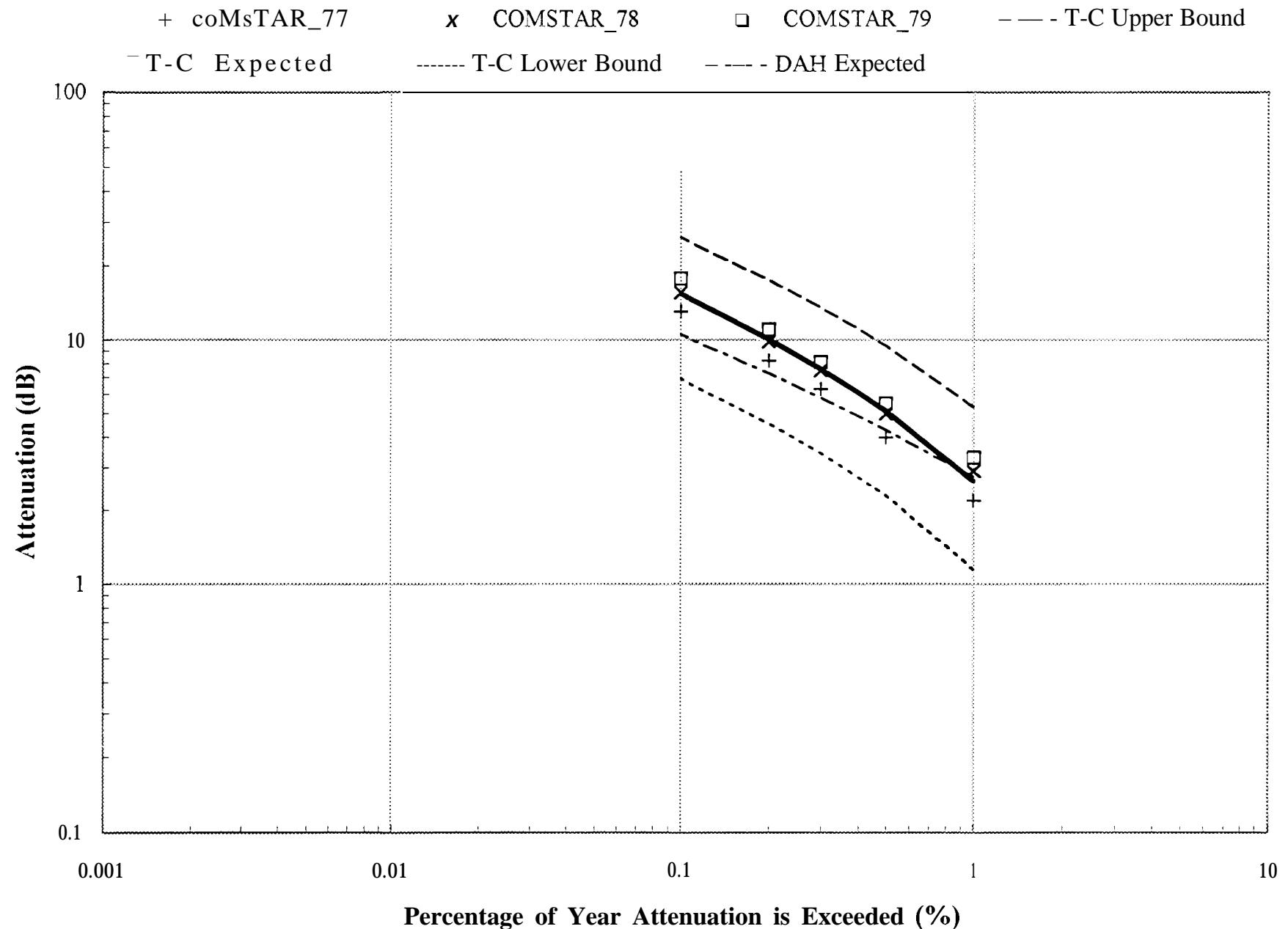
28.5 GHz, Austin, TX

Attenuation Relative to Clear Sky



28.5 GHz, Wallops Island

Attenuation Relative to Clear Sky



Attenuation Relative to Clear Sky

19.0 GHz, Waltham, MA

