

6L02209

NU/TUS/AMAX-5

MAGNETOTELLURIC

DATA

CORRECTIONS  
APRIL 1980

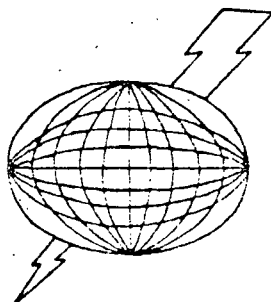
1/21/85 21P  
2nd text

TUSCARORA PROSP

NEVADA

FOR

AMAX EXPLORATION, INC



**TERRAPHYSICS**  
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The following pages contain corrections and additions to the telluric magnetotelluric data for the Tuscarora prospect, Elko county, Nevada.

Not all the stations were affected, however all the data are presented in this binder.

An additional plate 5 is presented. This plate contains the approximate directions of the tipper strike and the axis used for the TE mode one dimensional inversions. Significant changes were made to the inversions of stations M10, A10, B10 and B7. These were due to some corrections but predominately due to a re-interpretation of the orthogonal axis used for the TE mode inversion. These are shown in plate 2A. An additional interpretation using the orthogonal axis for stations M10, A10 and B10 is presented in plate 2B.

These results suggest that the near surface thermal fluids in the area of M1 and A1 may extend to the south toward stations A3 and B3 at a depth of about one kilometer, to the west toward B2 and possibly M8, and toward A10 to the northeast. The deep thermal source may lie to the south beneath M3 or to the north beneath A5 to B5. Additional MT stations in these areas and correlating the results with other geological and geophysical information may aid in evaluating these possible sources.

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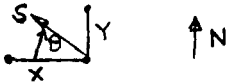
Plots of data: apparent resistivity, rotation angle, tipper strike,  
phase, skewness and tipper vs period

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## SELECTION CRITERIA FOR MAGNETOTELLURIC DATA

Only those points are plotted for which the skewness  $\leq 0.5$  \*\* and the phase falls between 0 to -90 degrees.

Angles (strike) are measure positive clockwise from the X axis.



\*\* Skewness values were allowed up to 1.0 for stations M6 and A6.

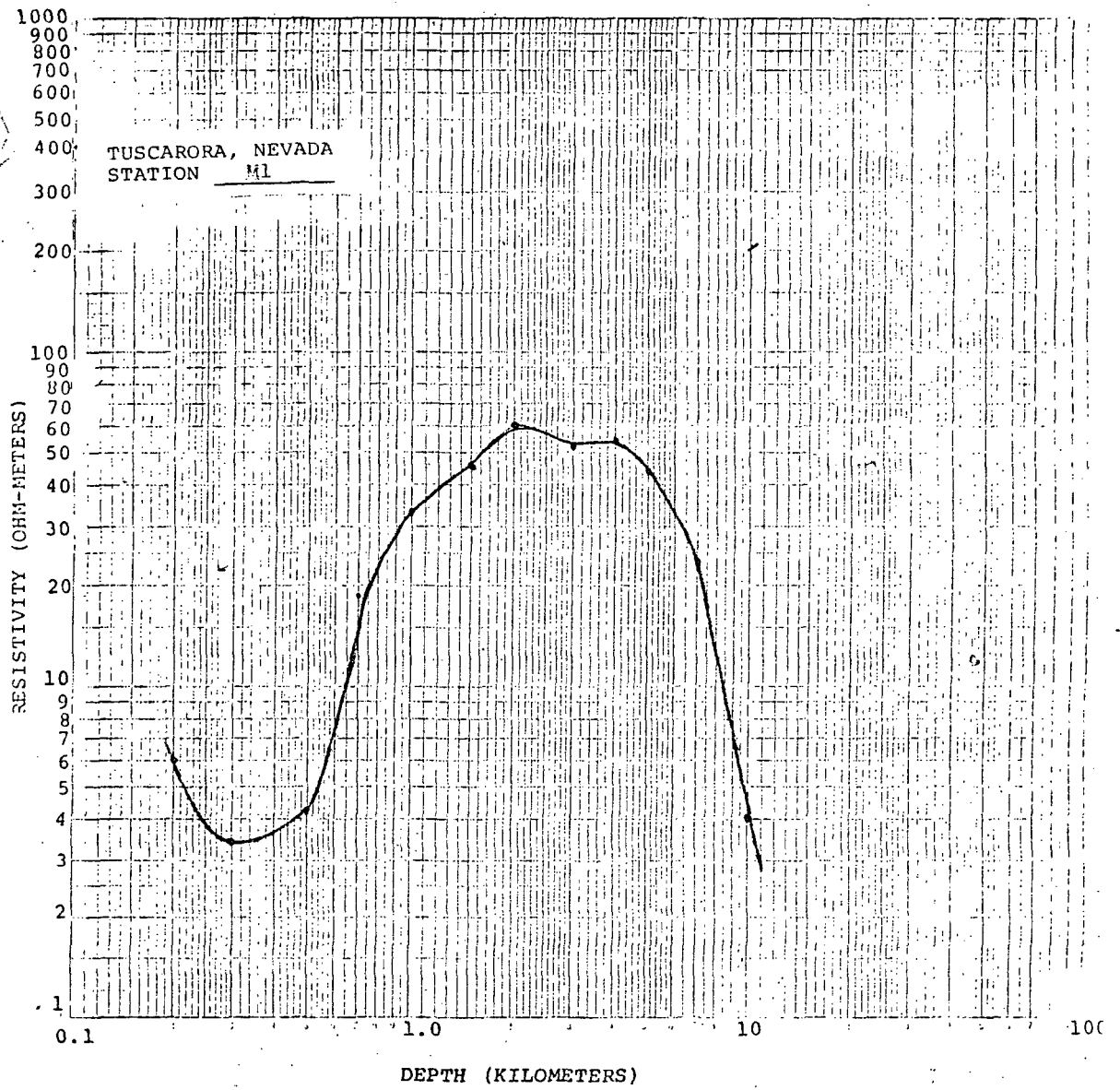


FIGURE 1 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

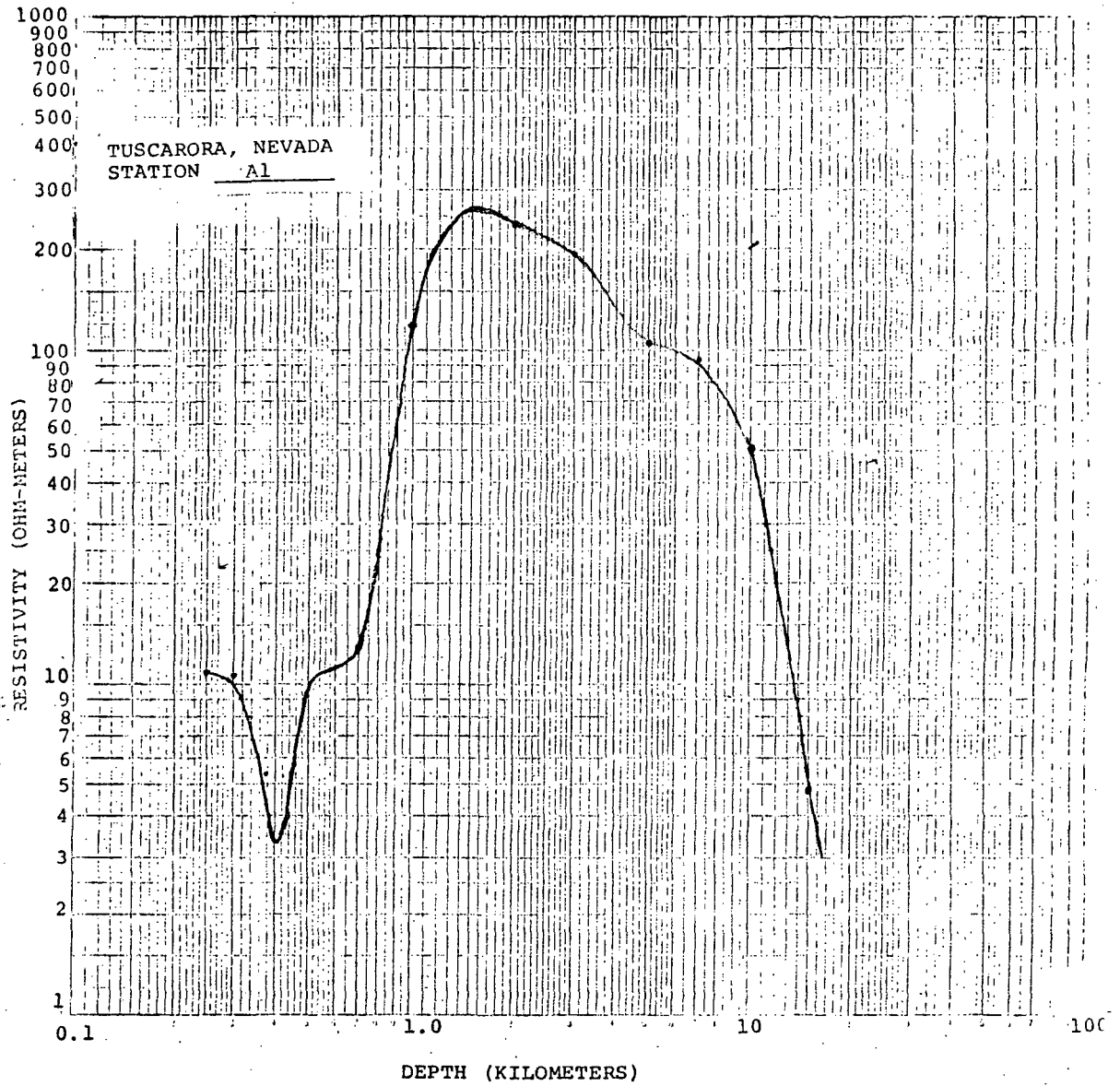


FIGURE 2 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

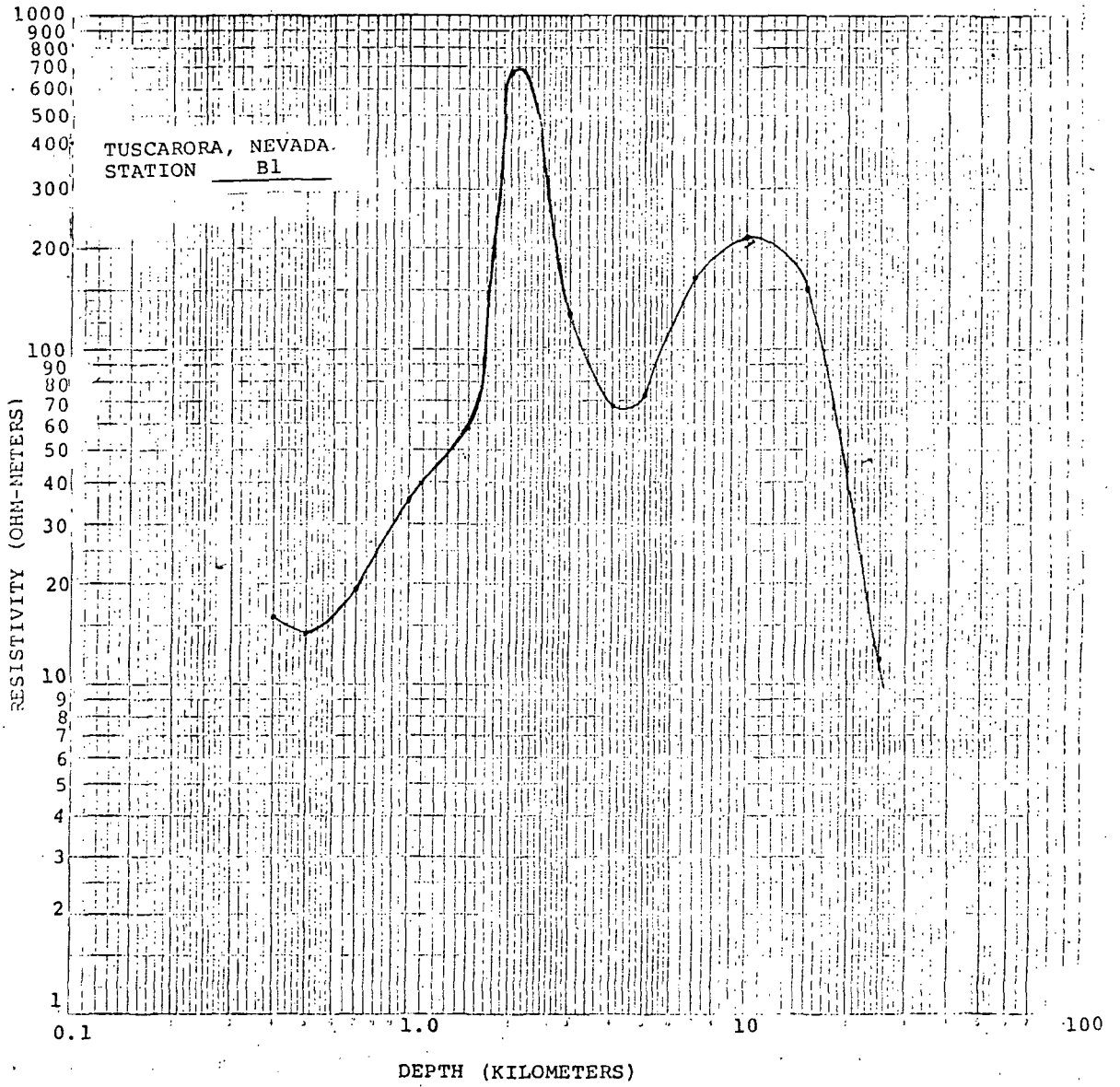


FIGURE 3 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.



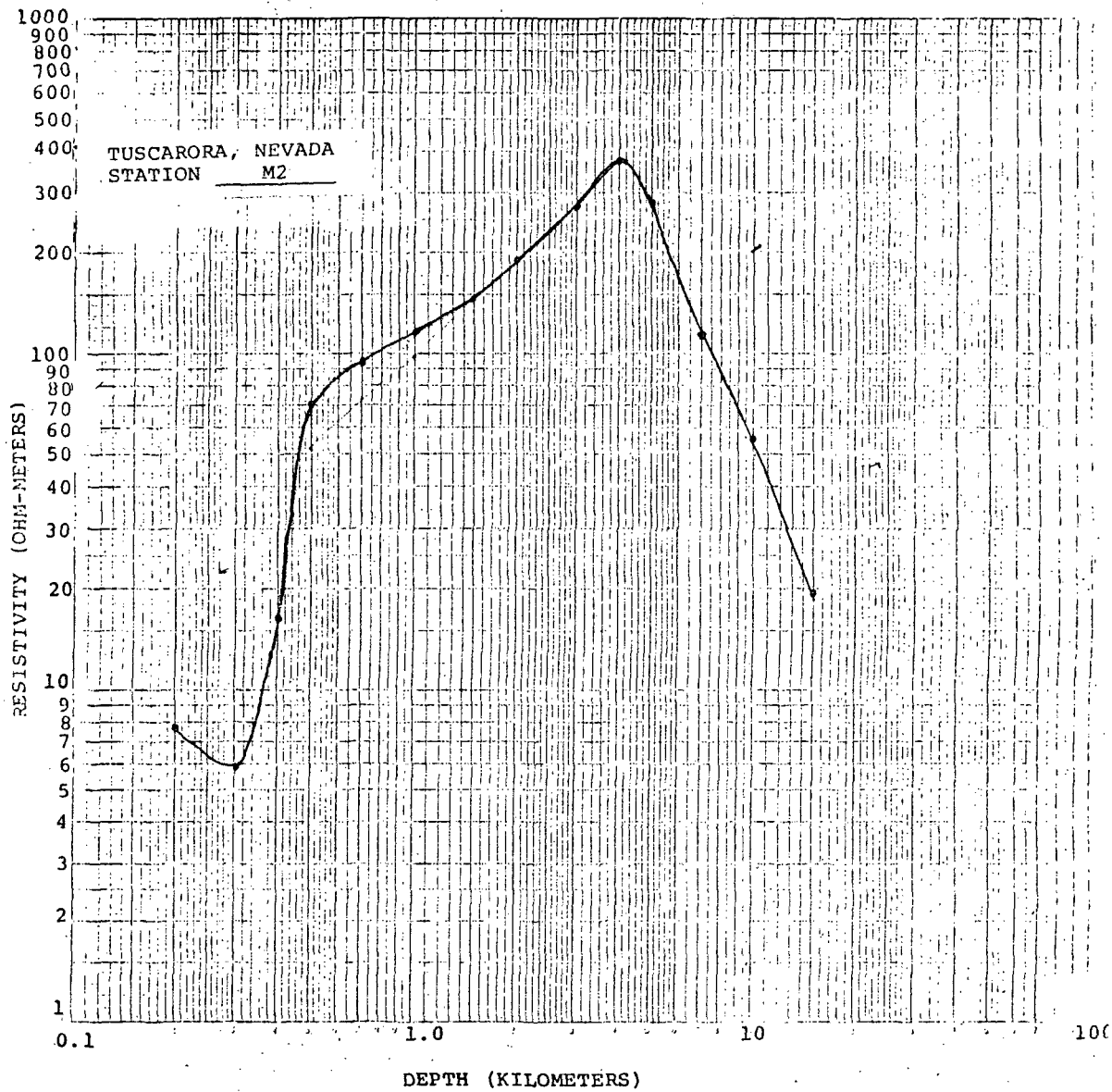


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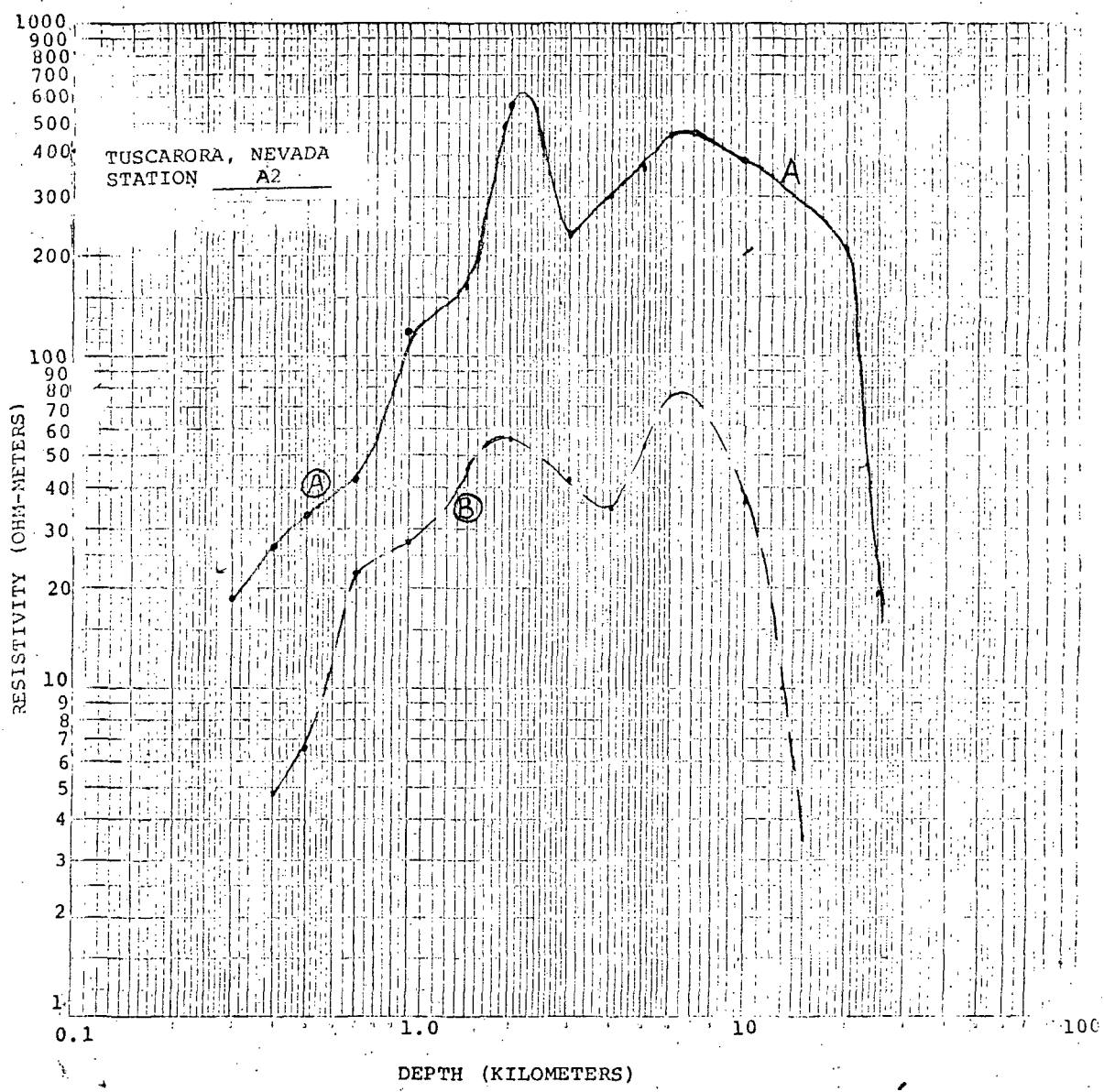


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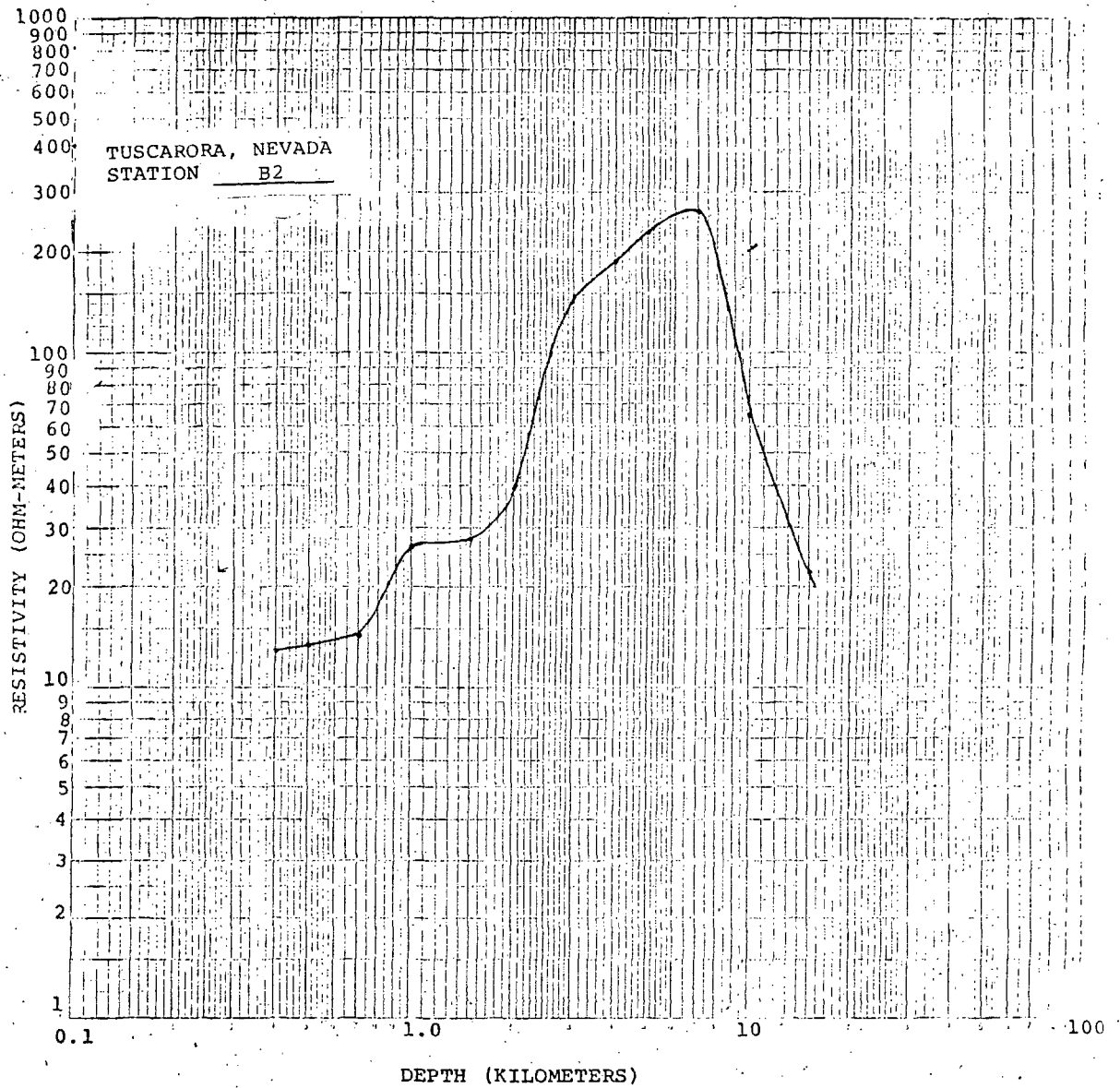


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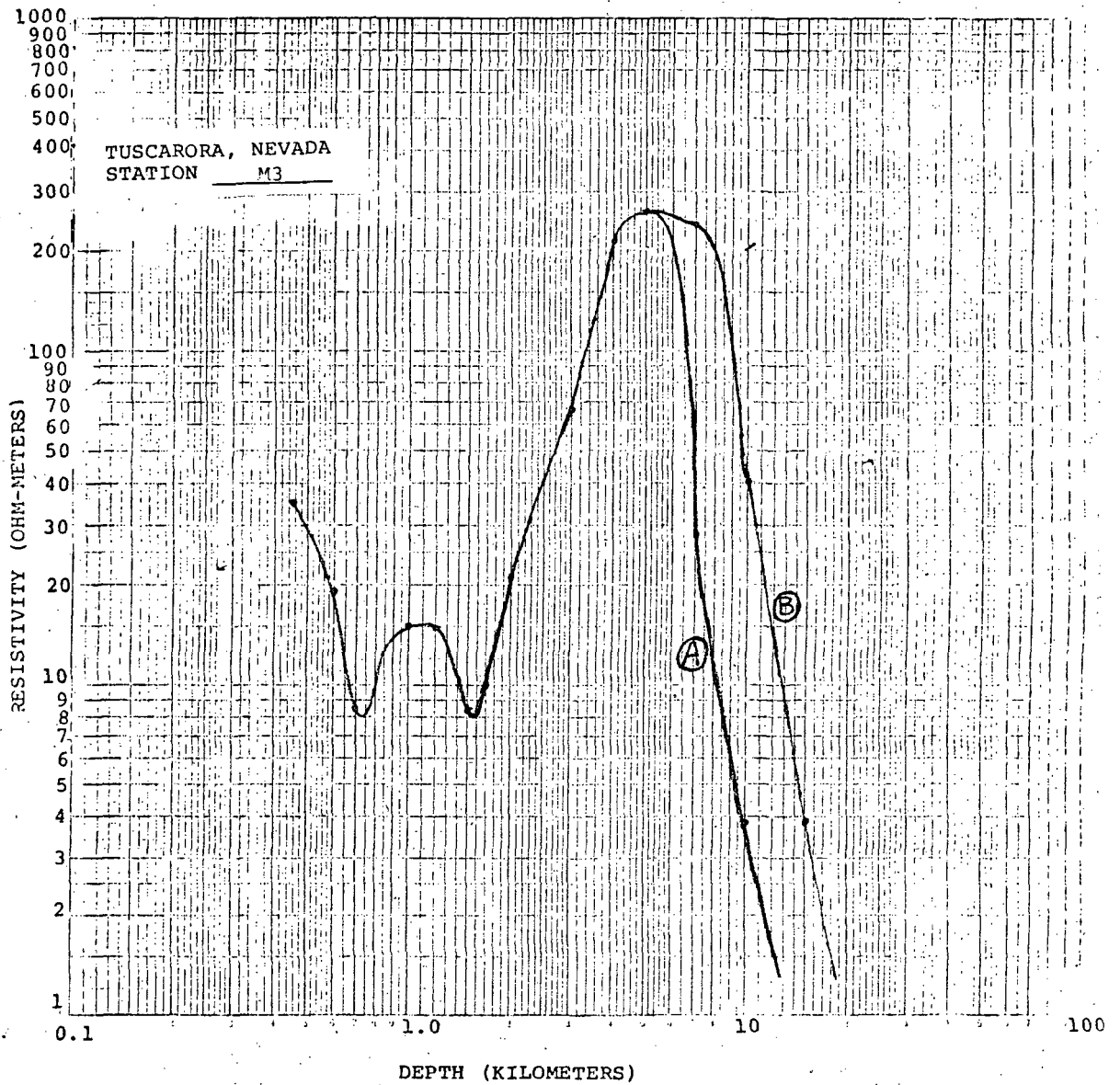


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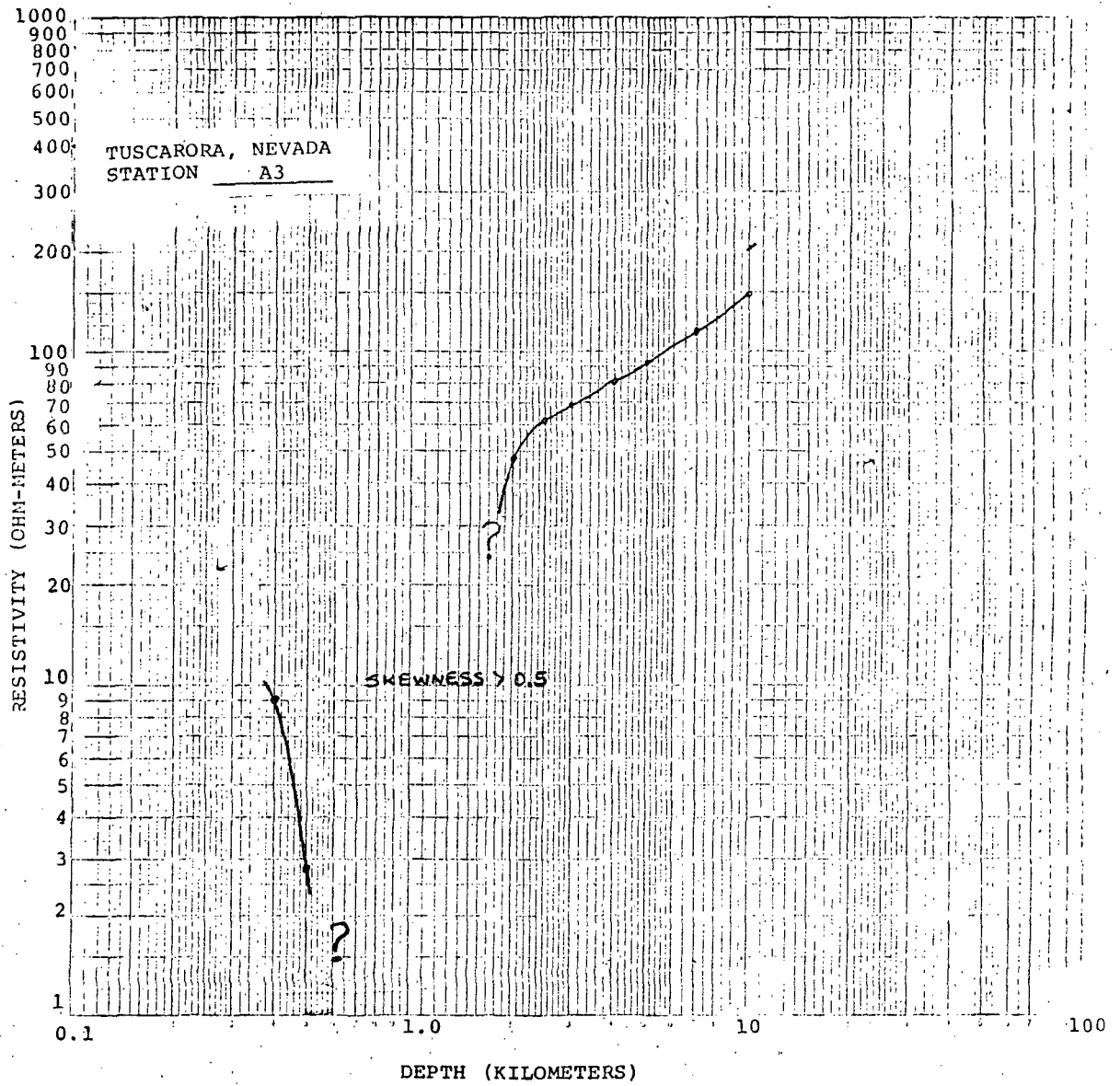


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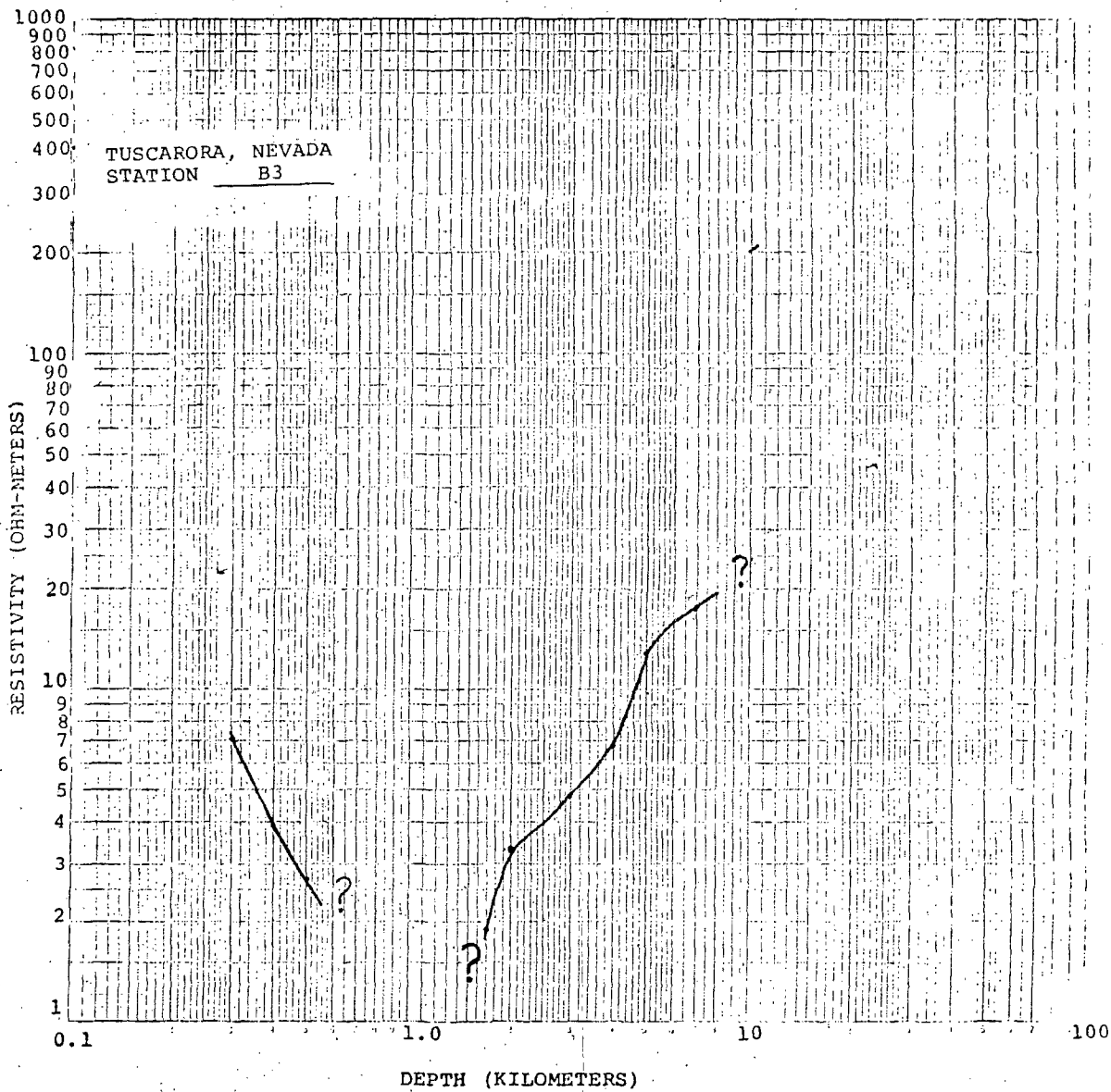
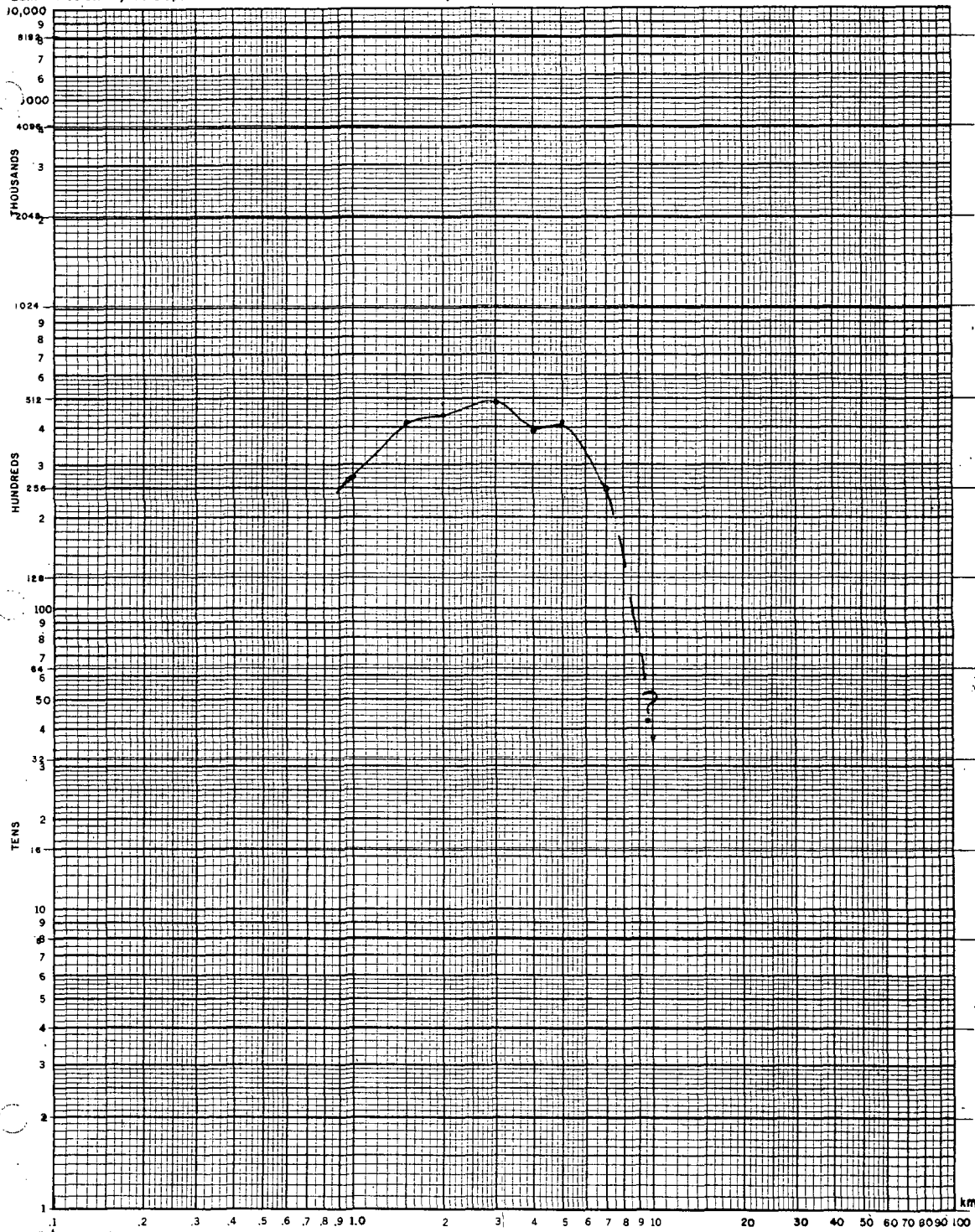


FIGURE 9 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

52m Resistivity vs Depth

Proj. TUSCARORA NV

Station M4



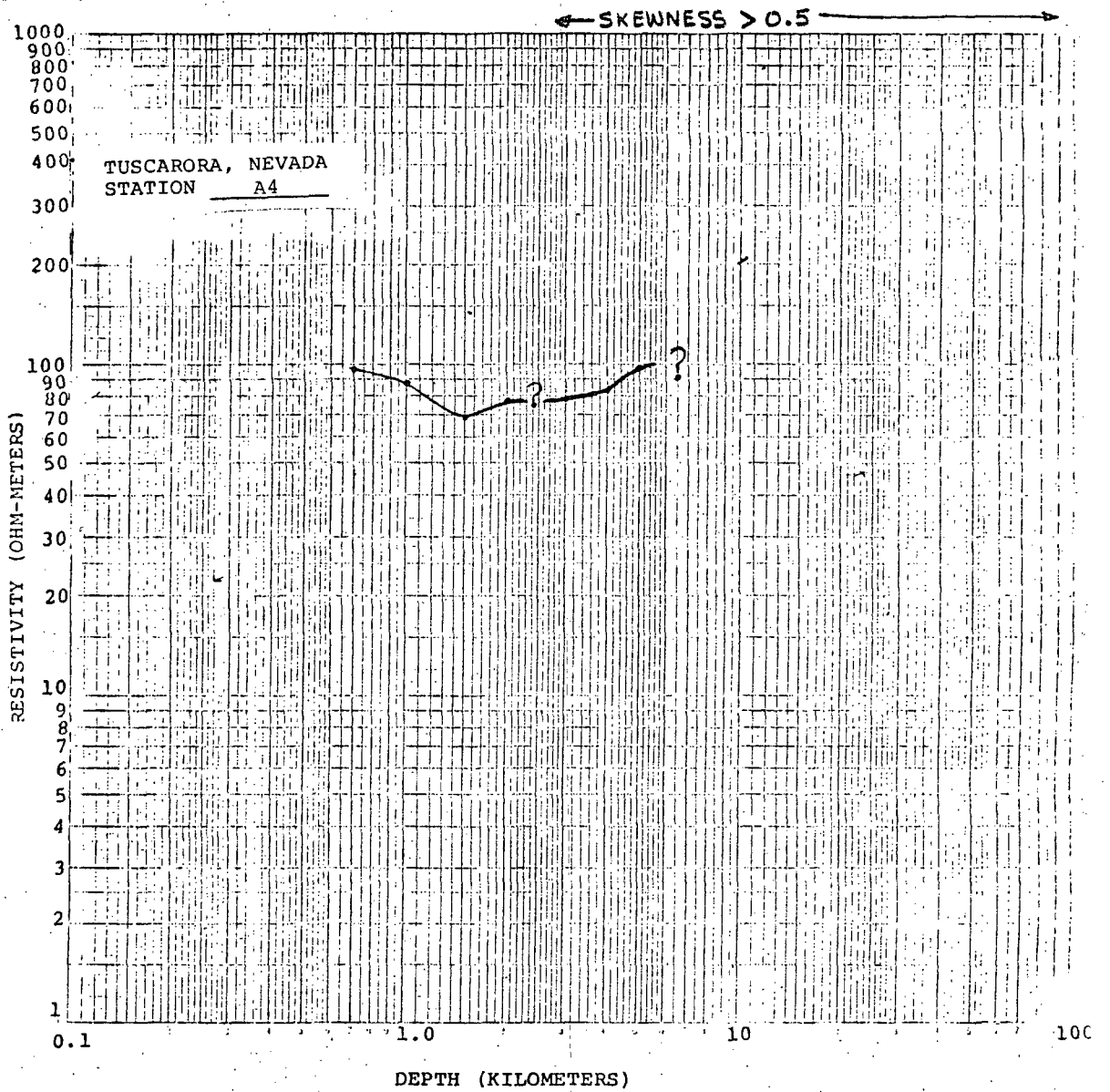


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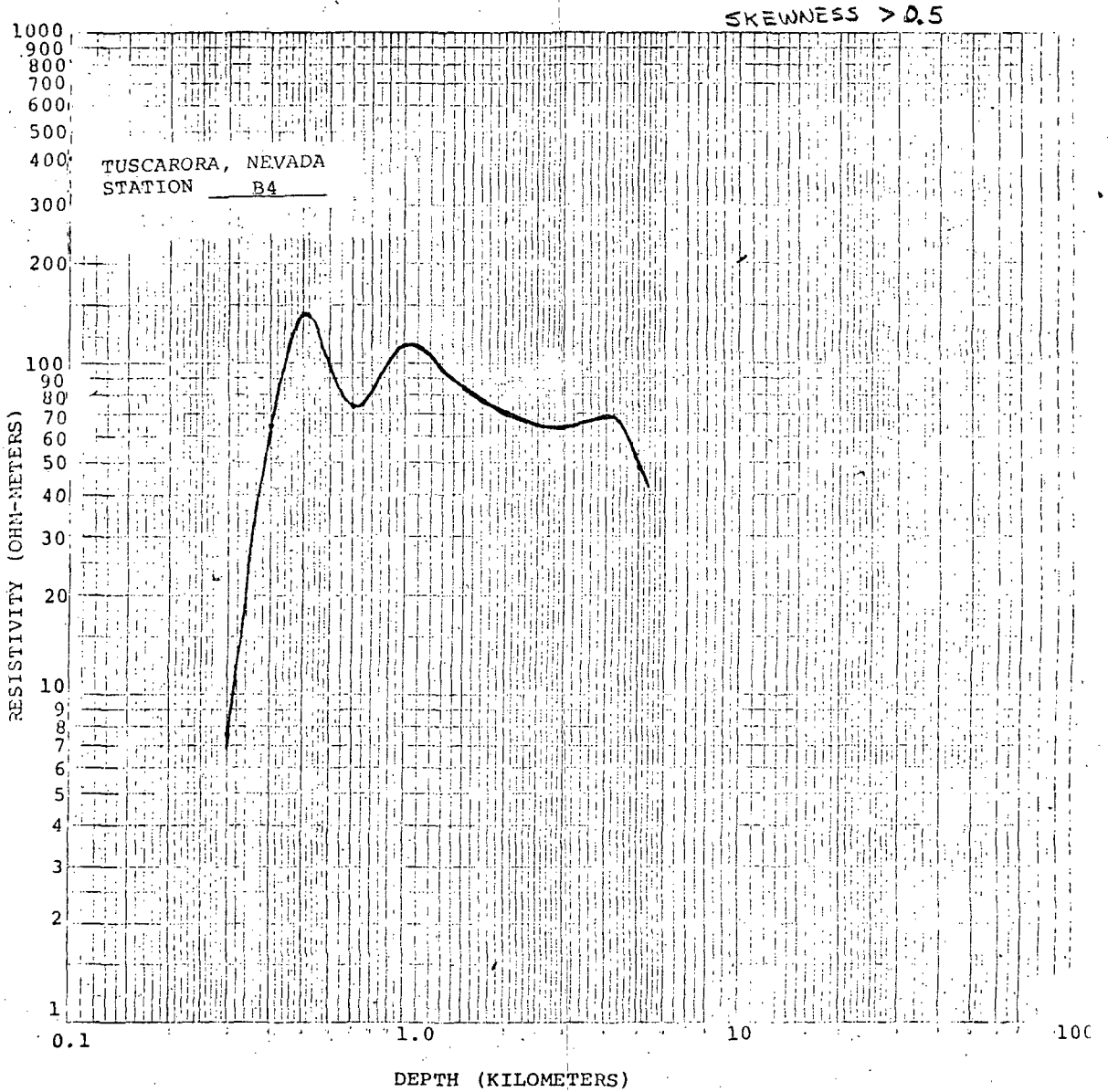


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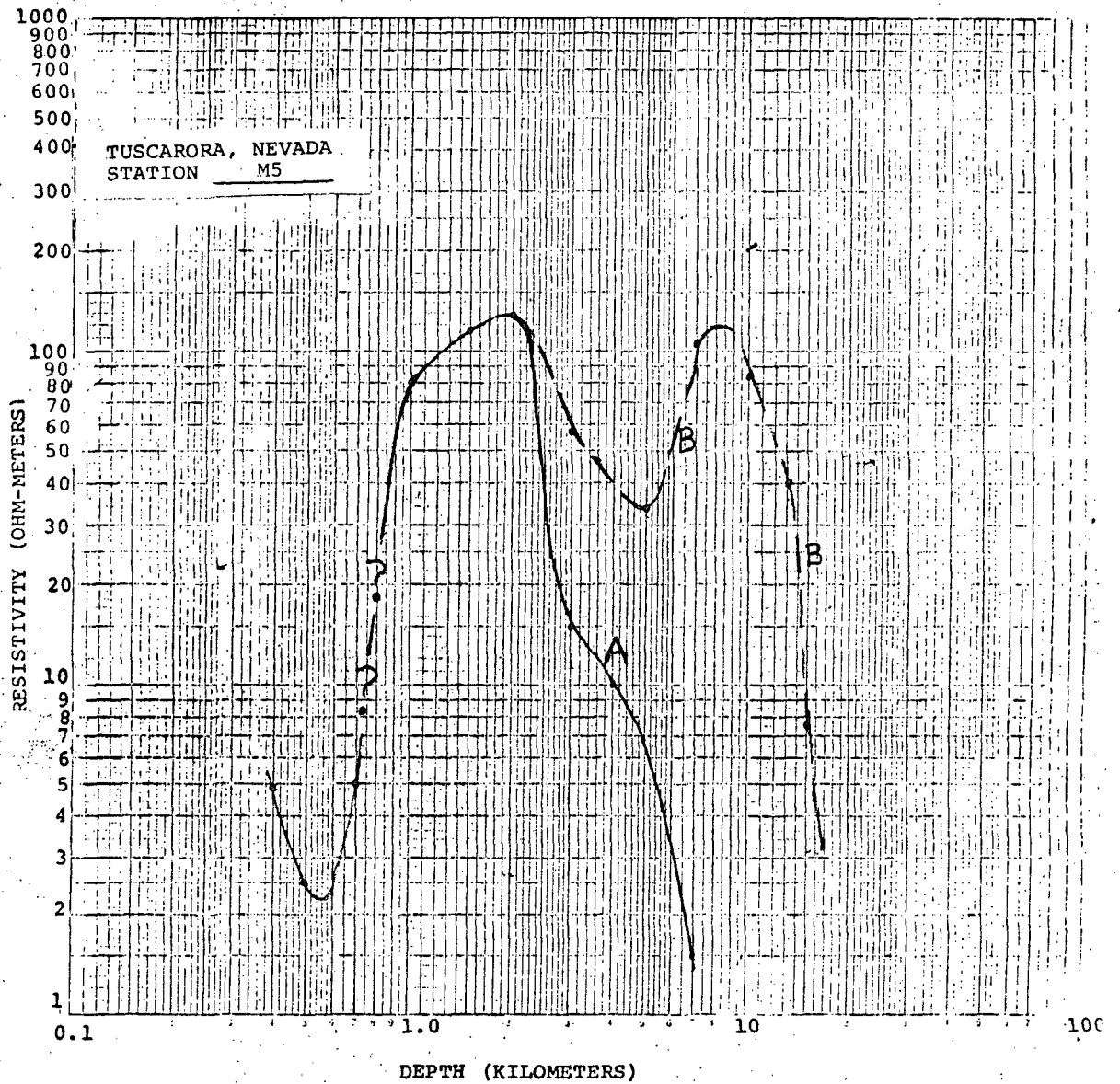


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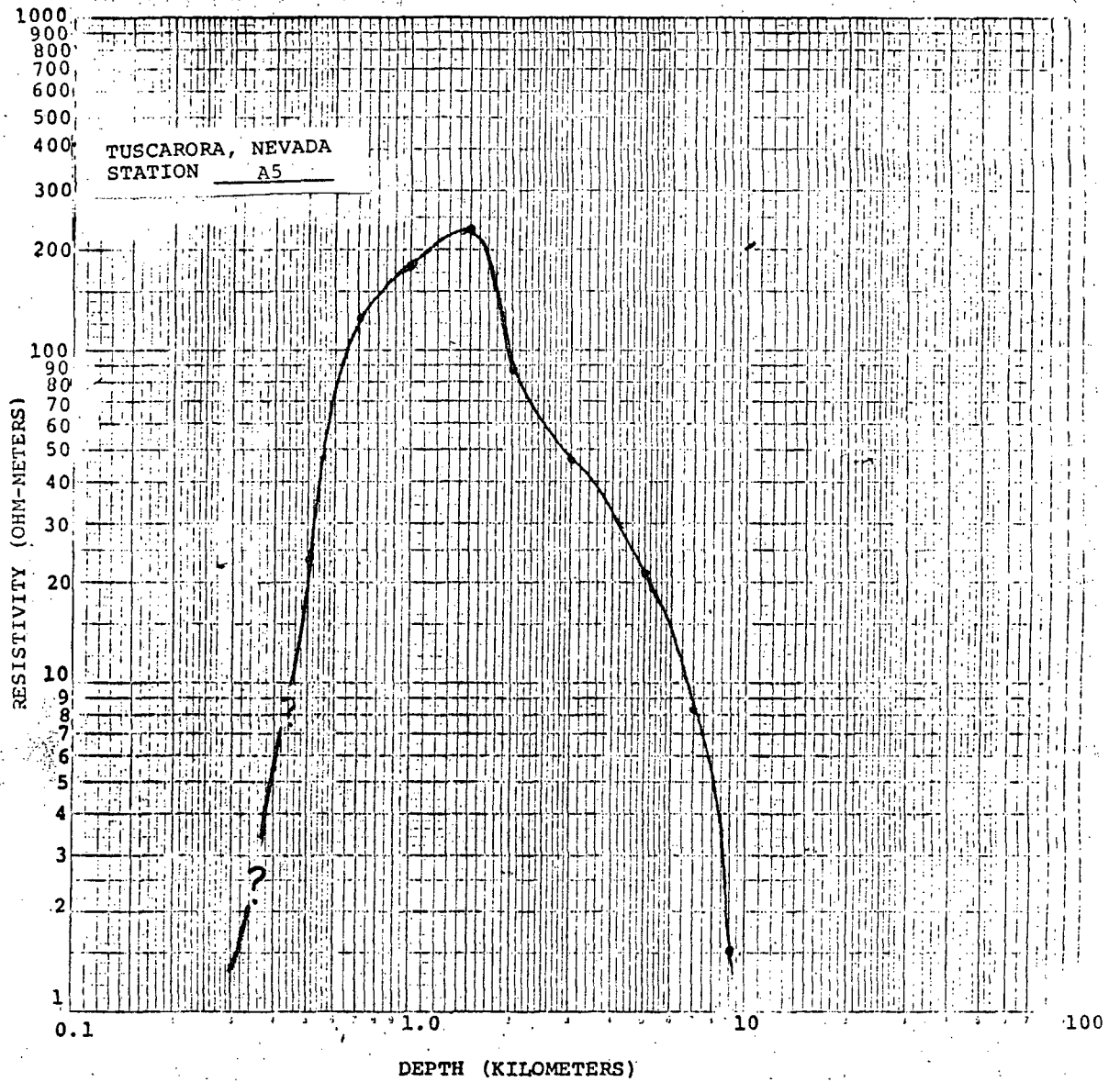


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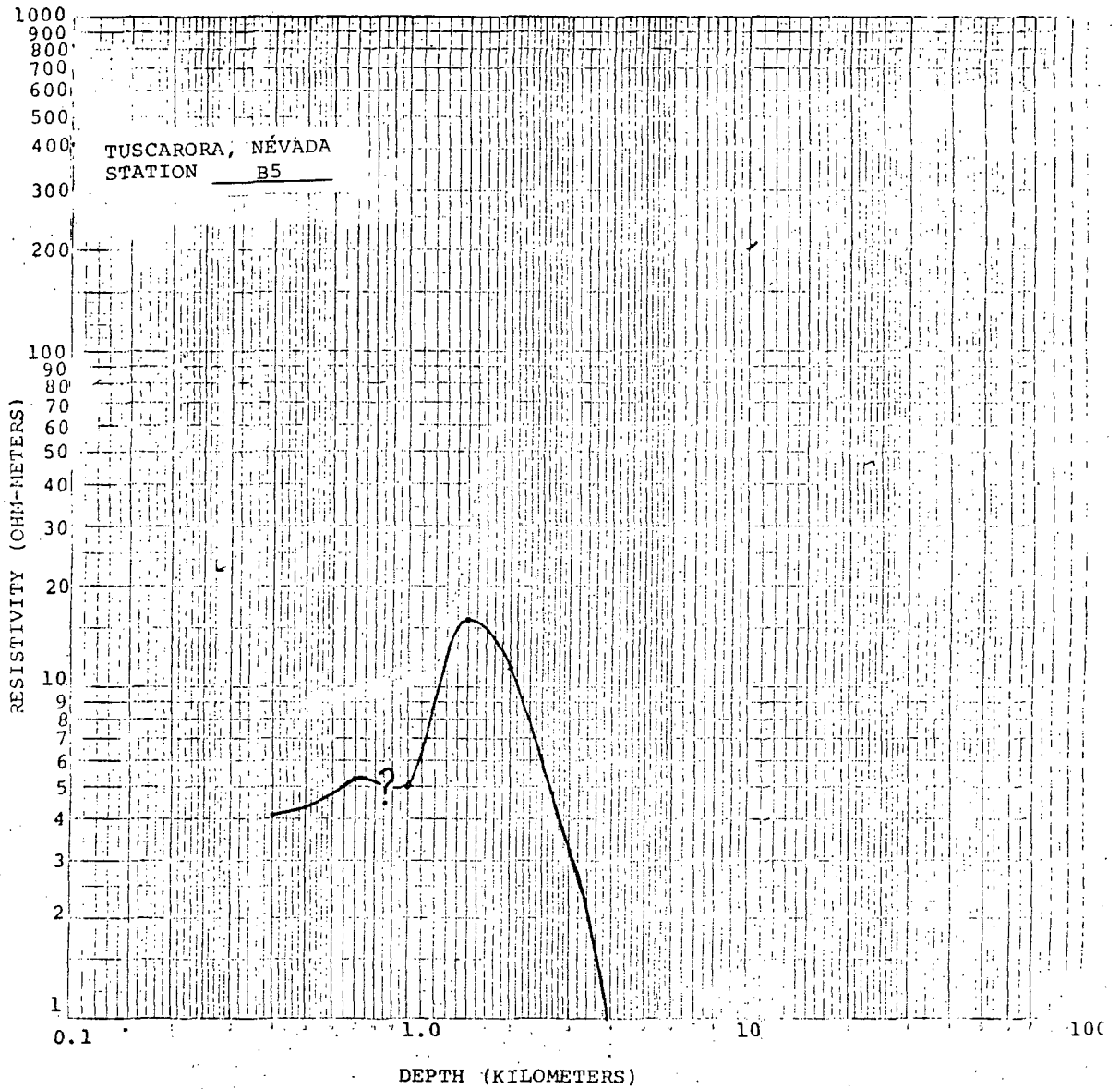


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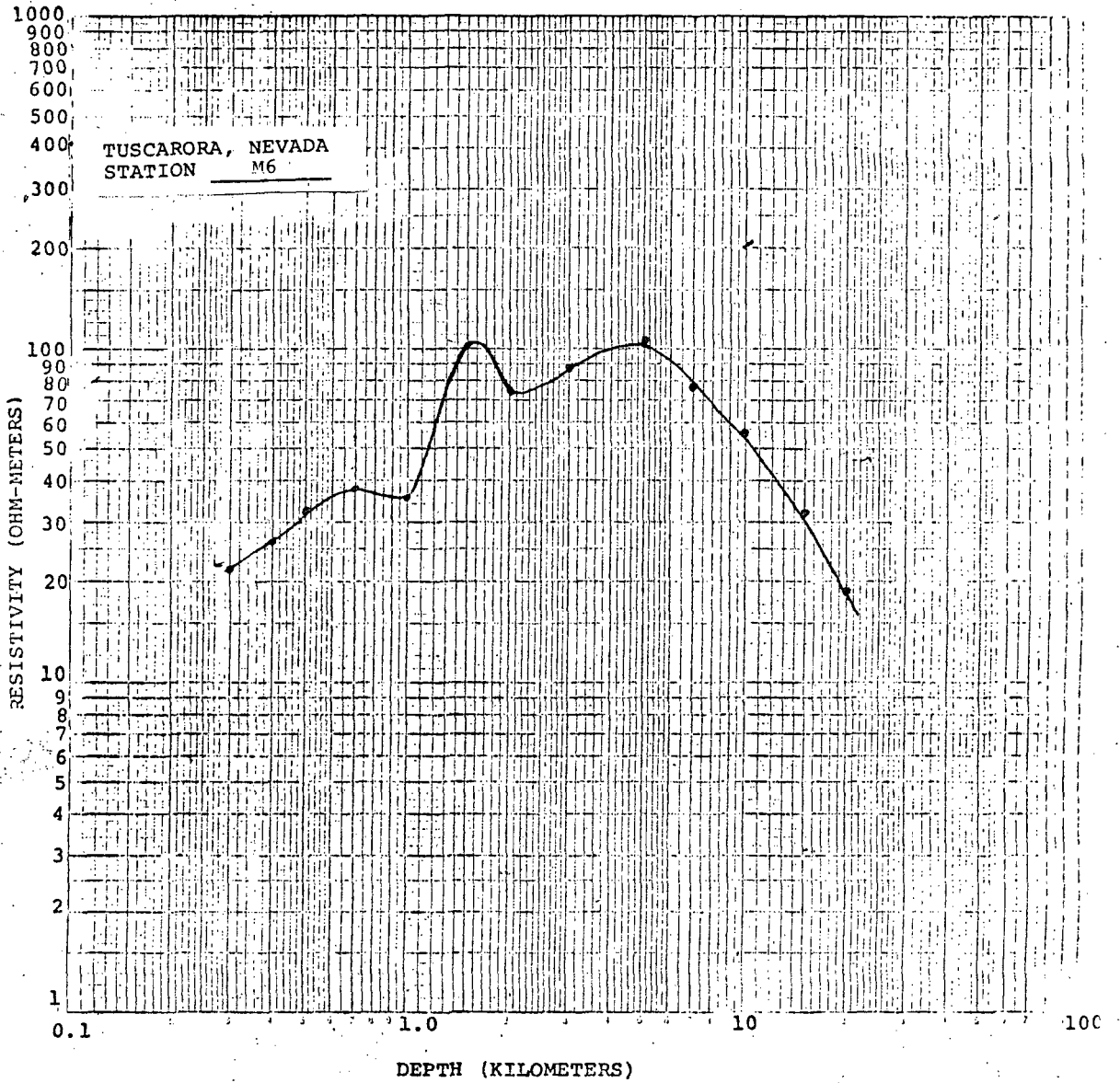


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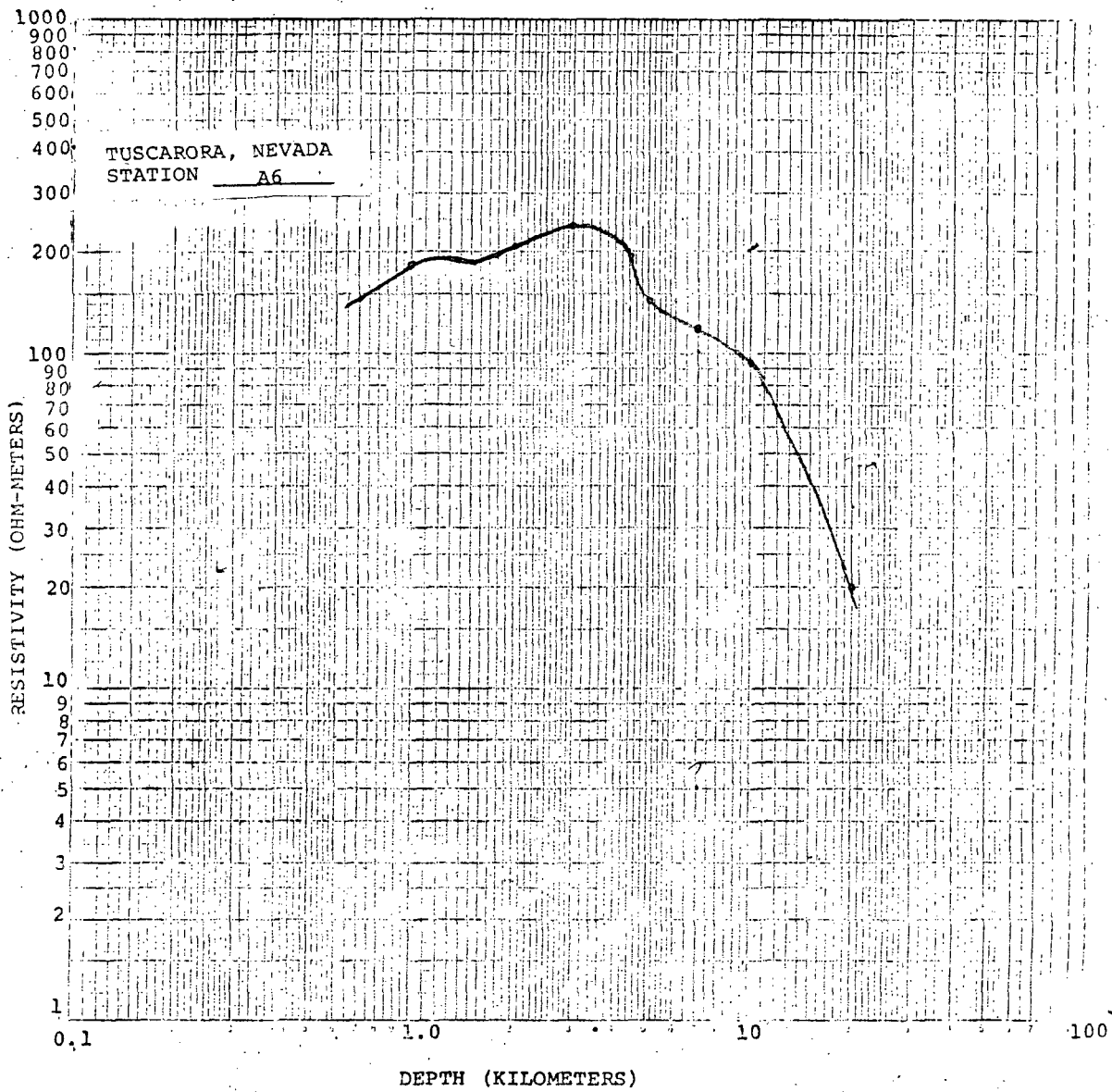


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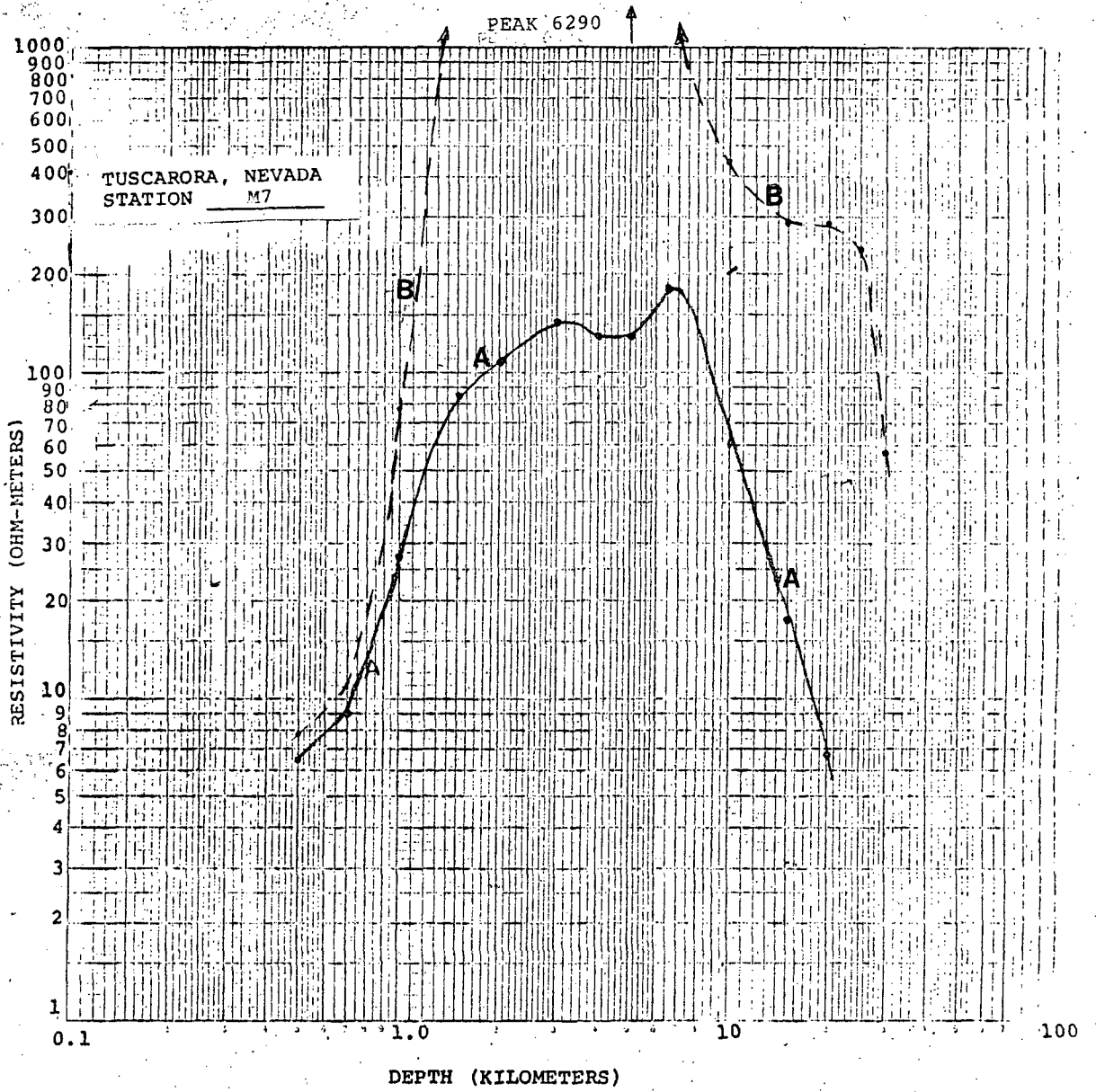


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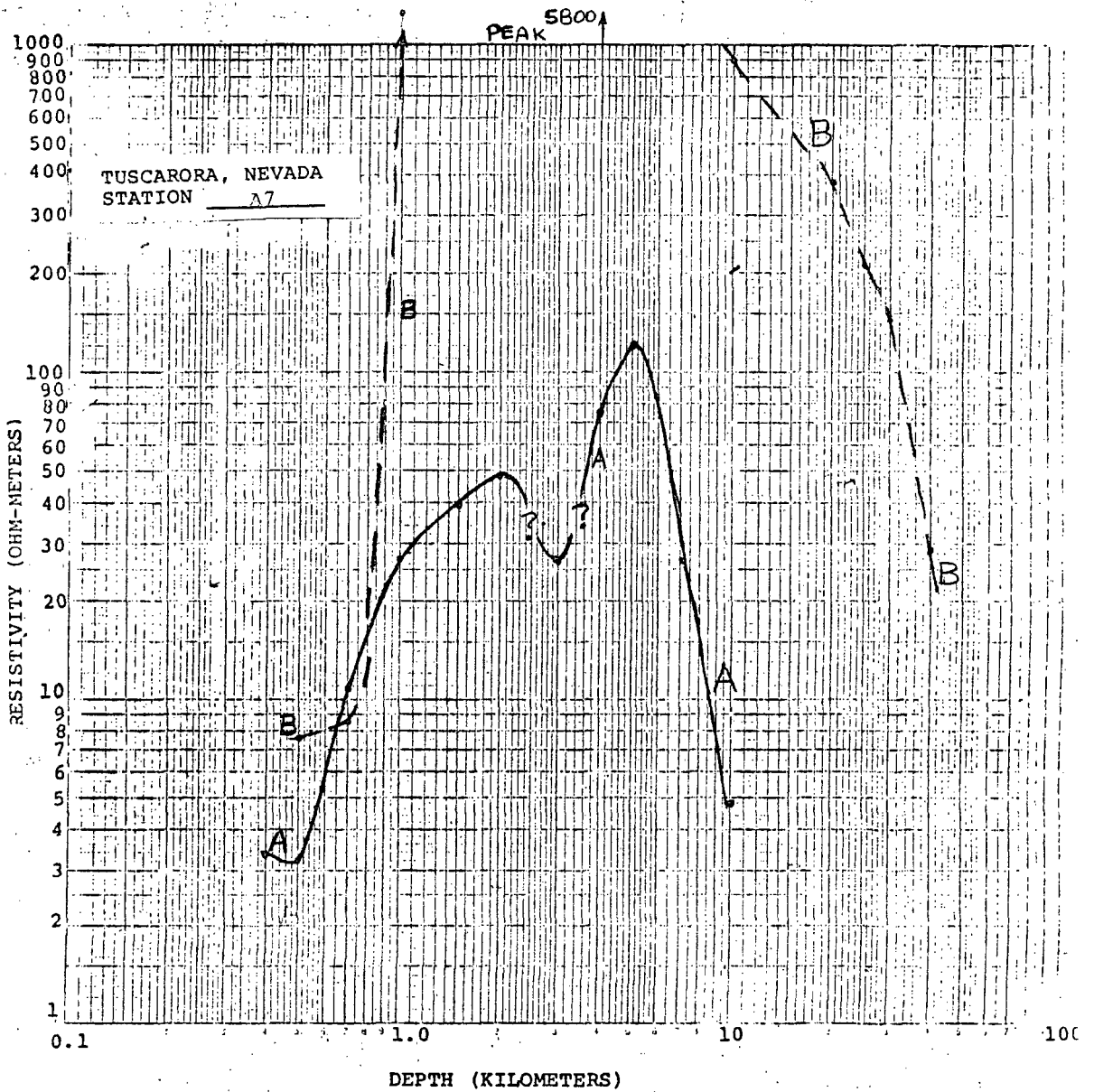


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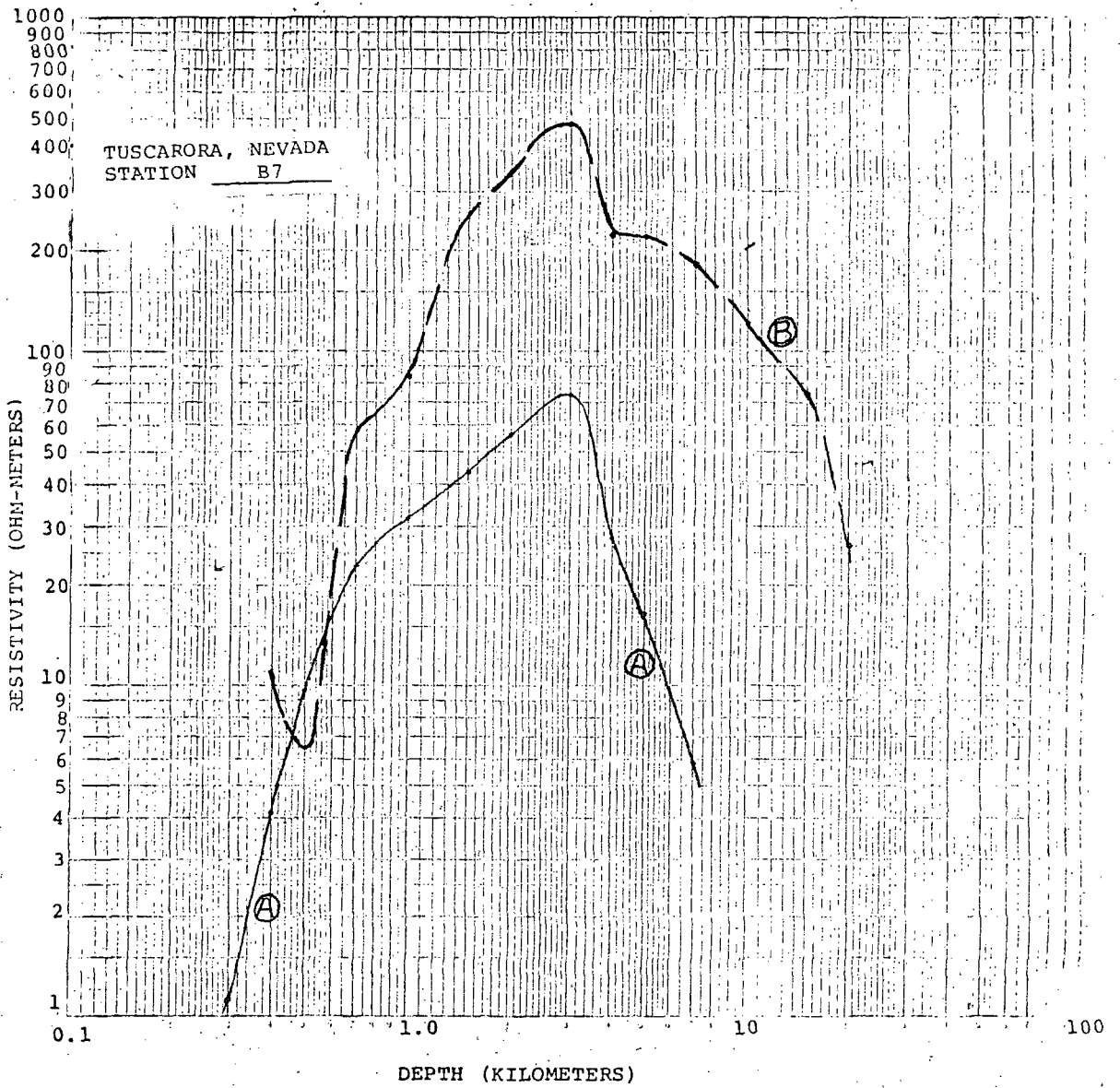


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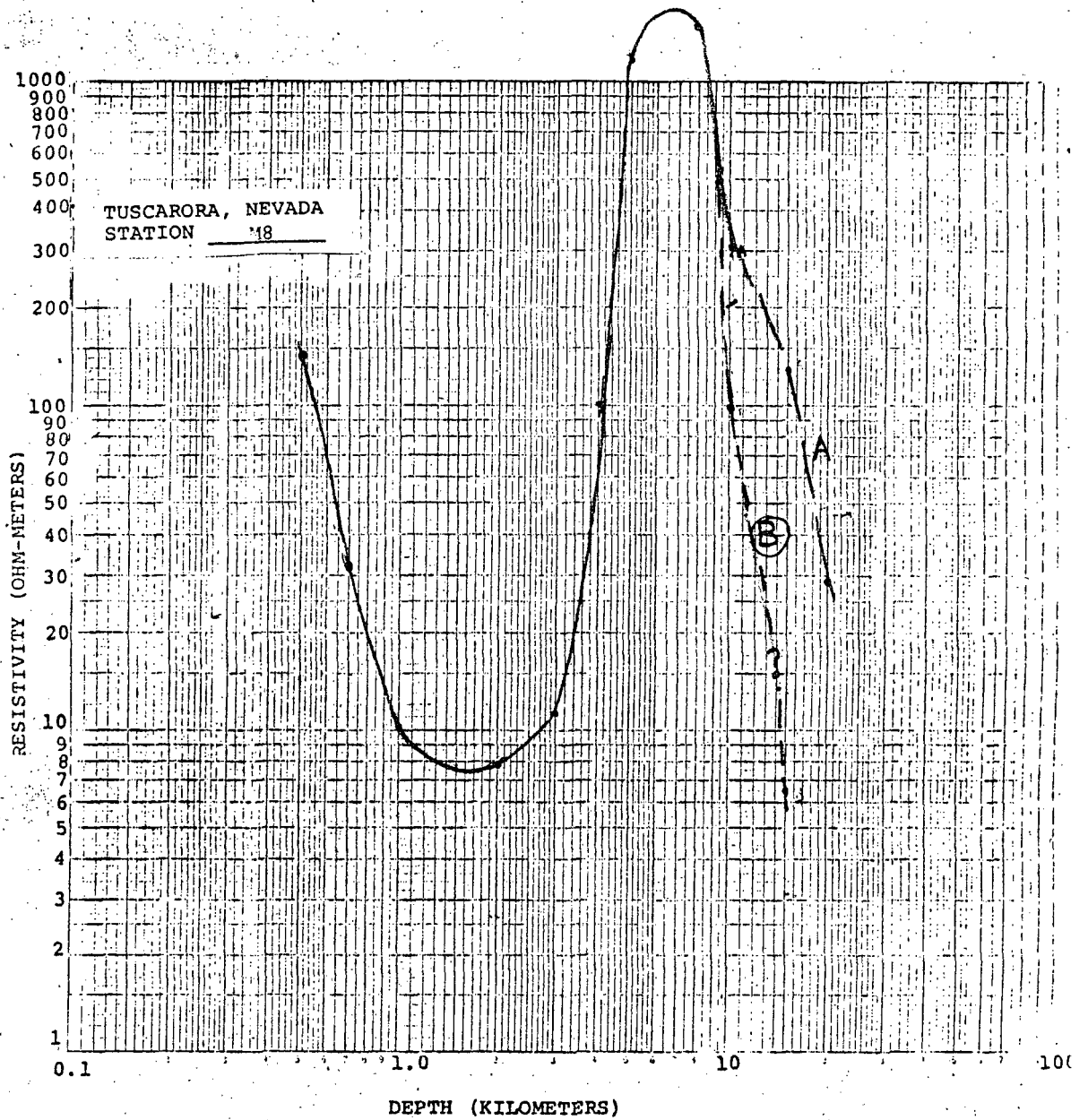


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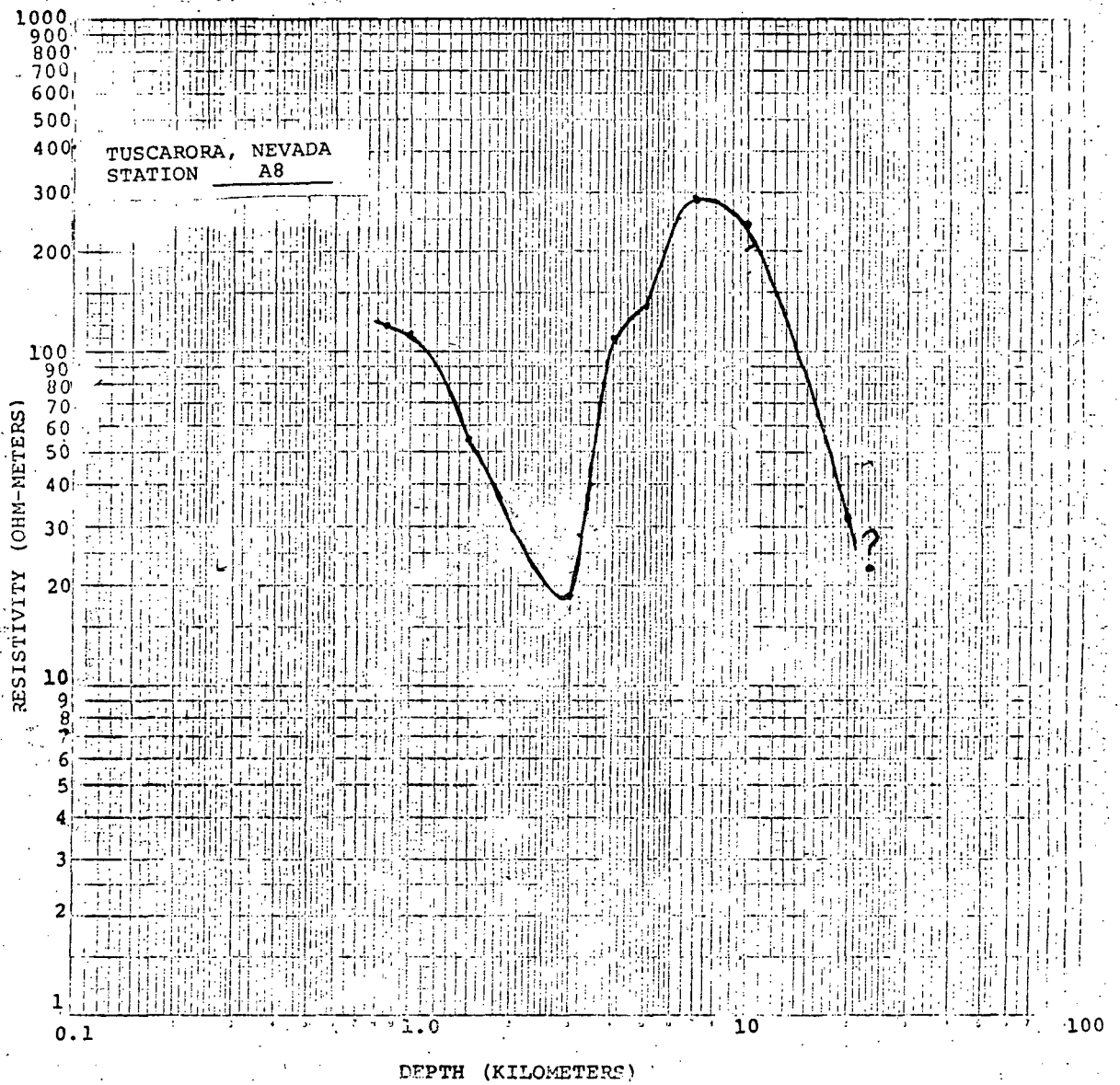


FIGURE 21 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

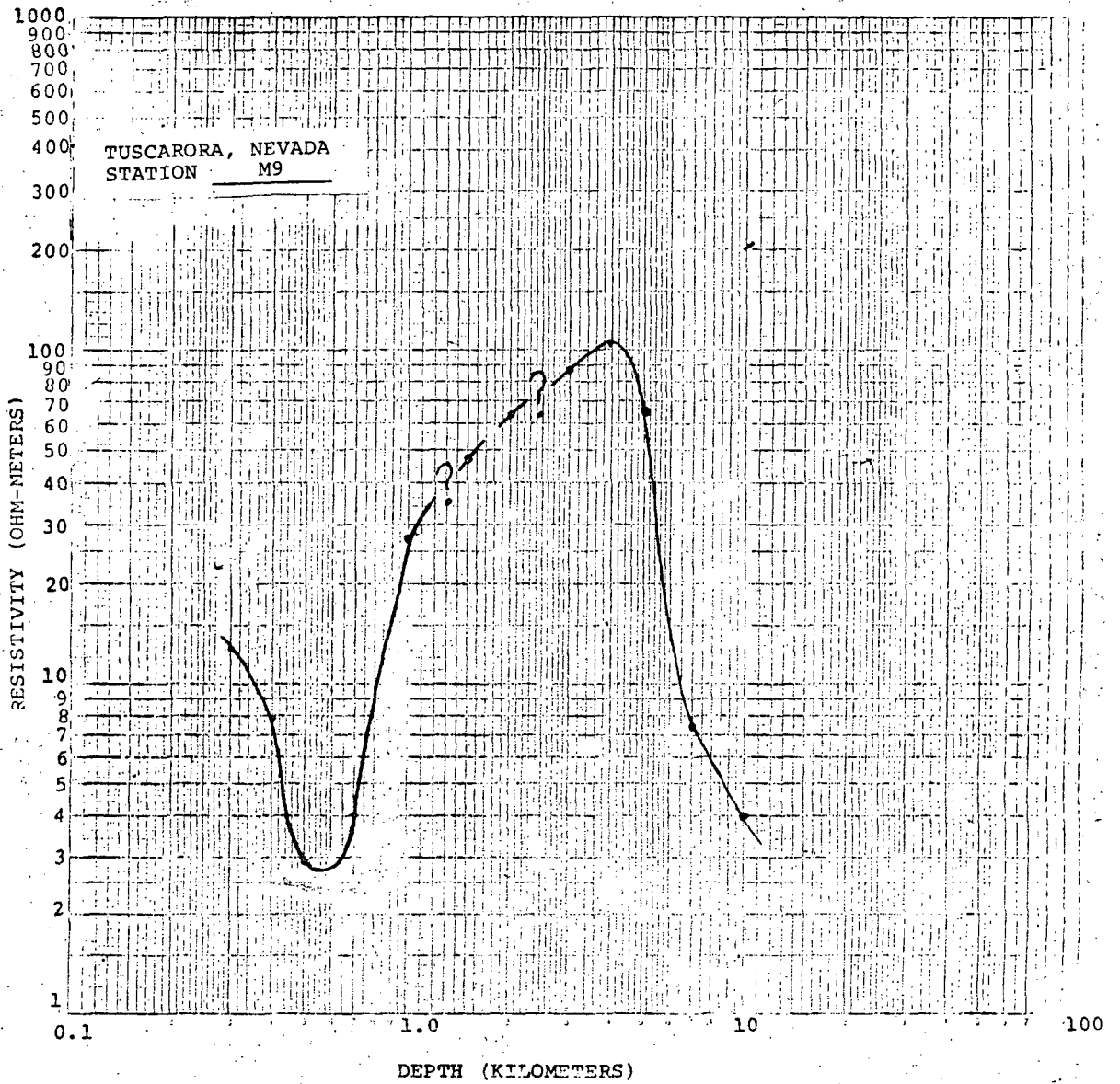


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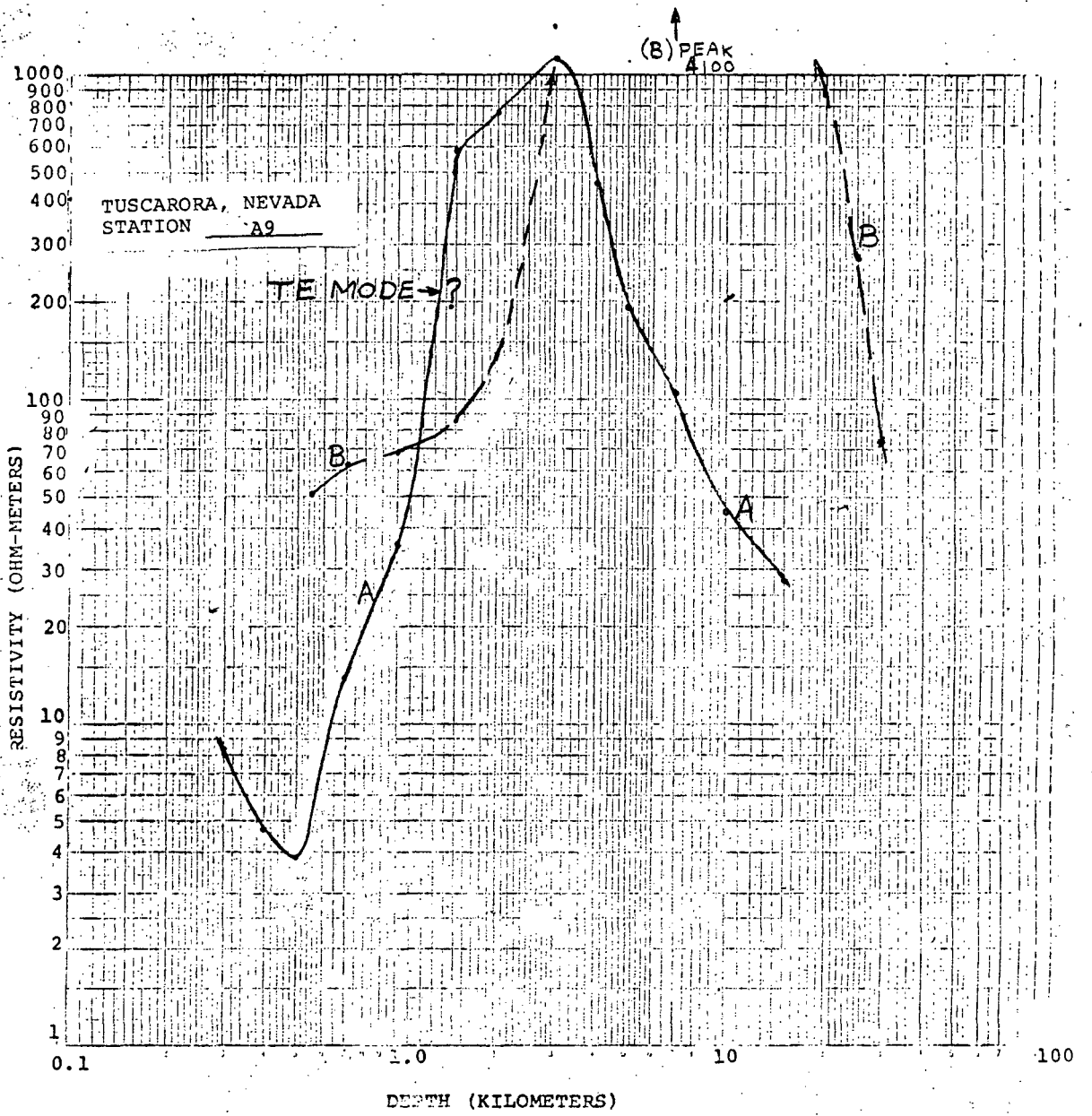


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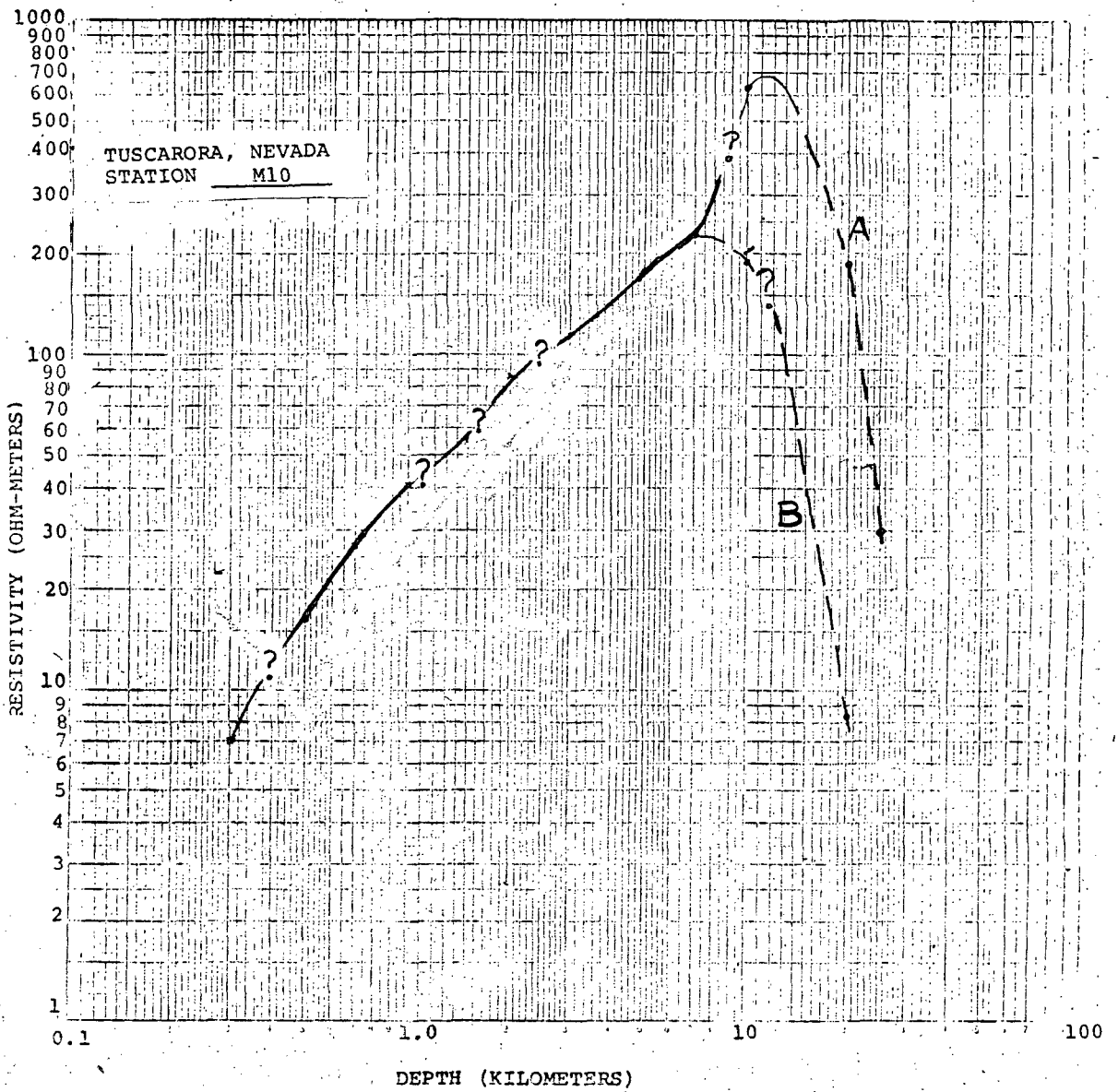


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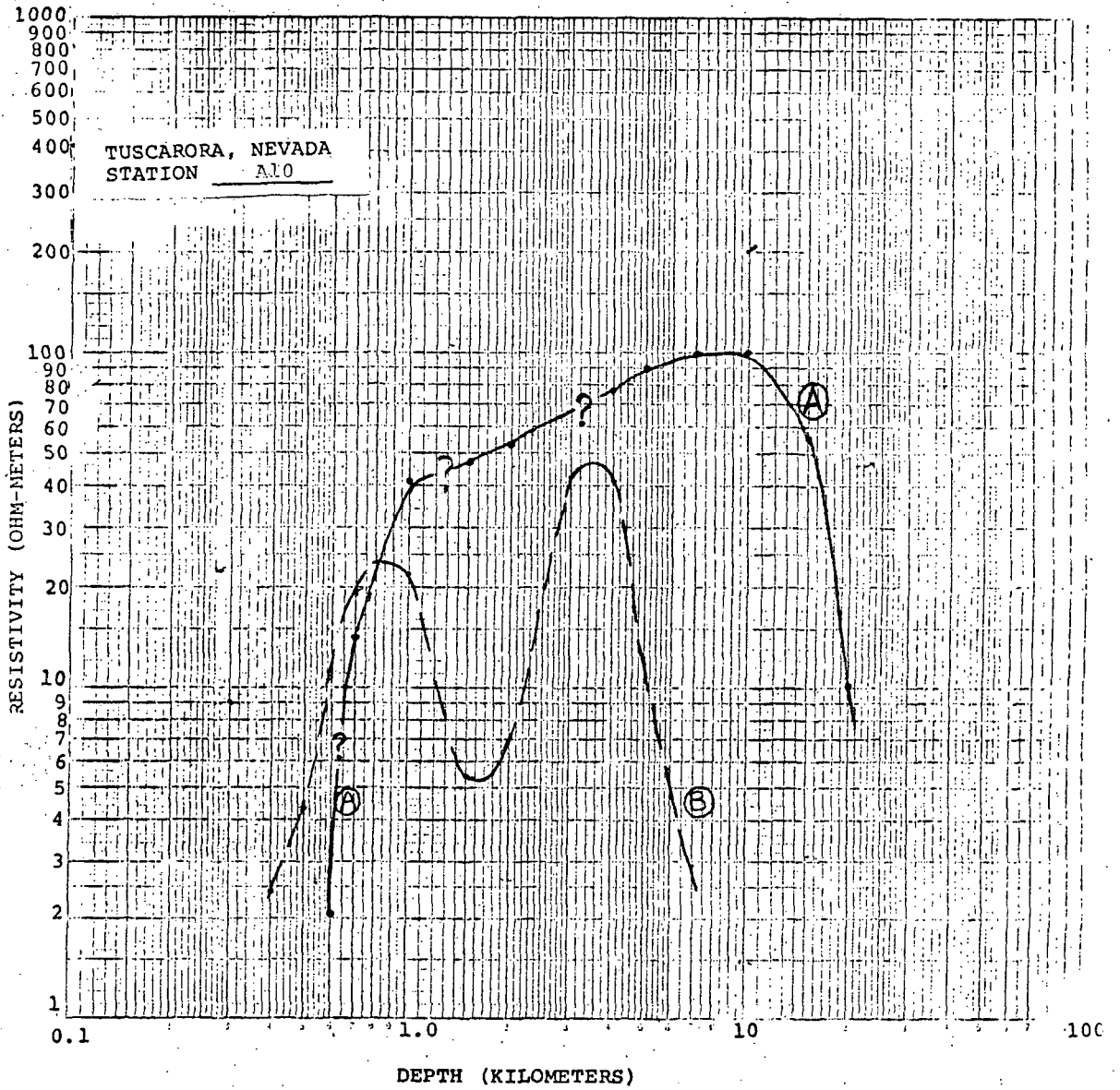


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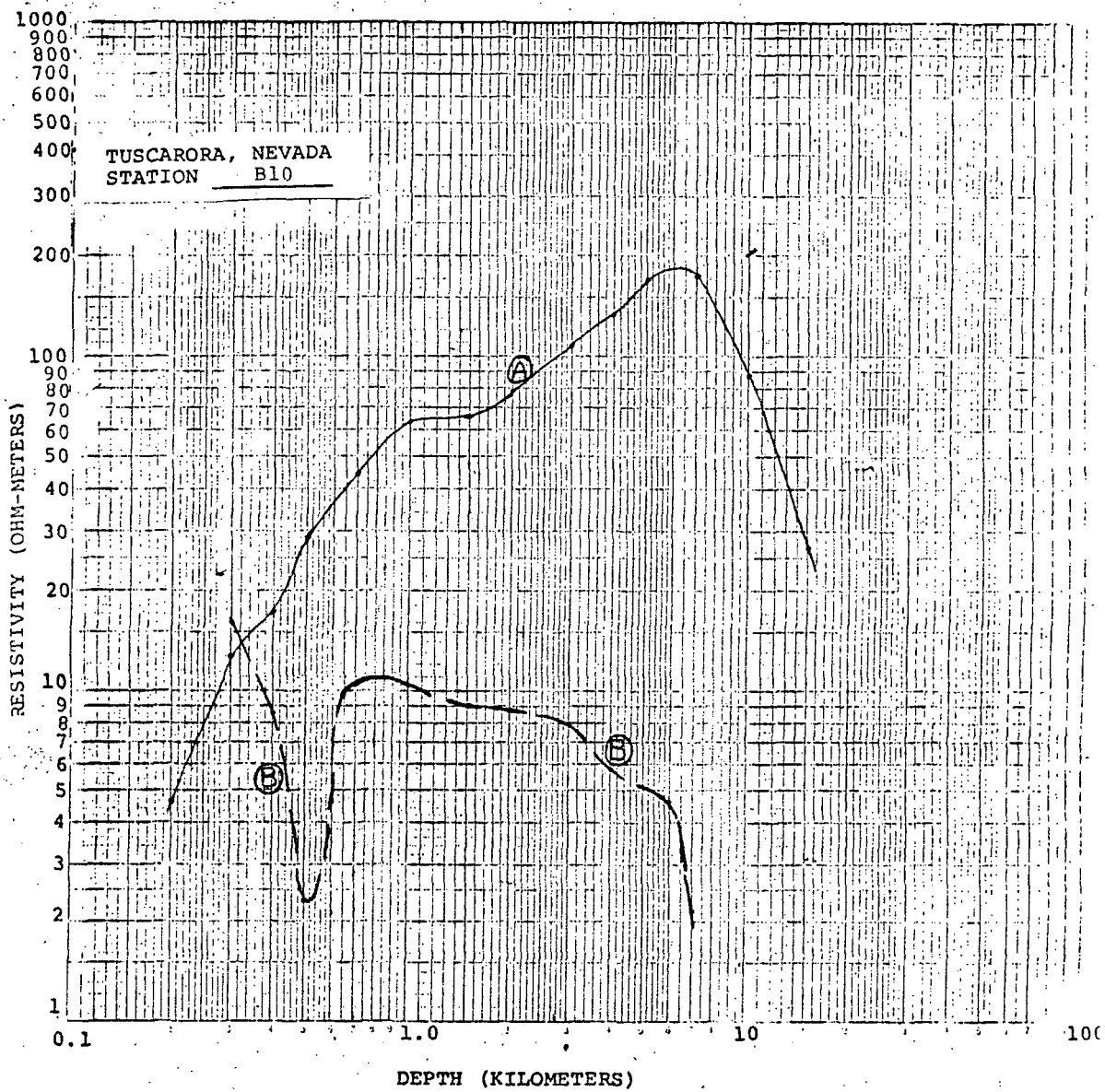


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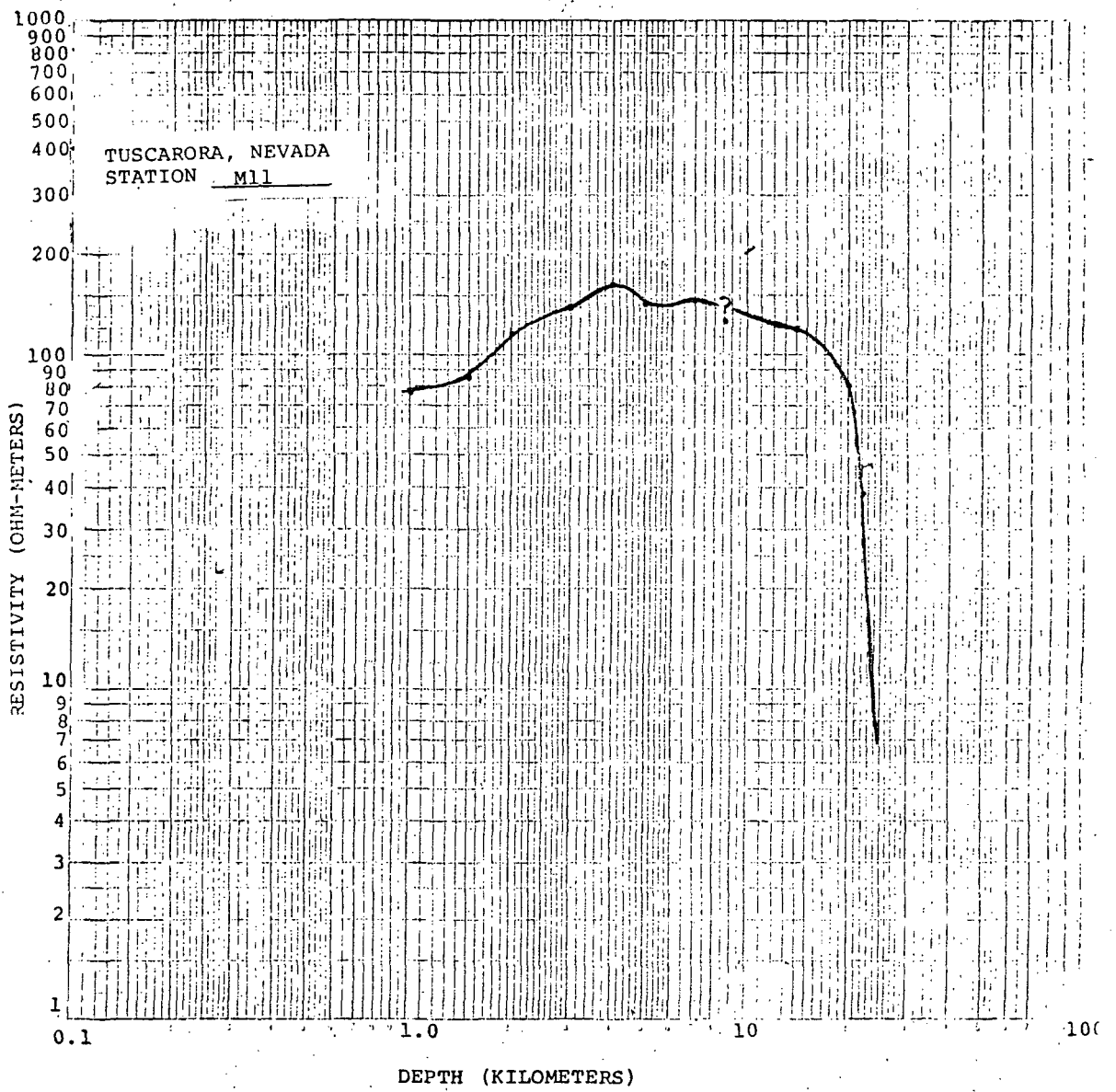


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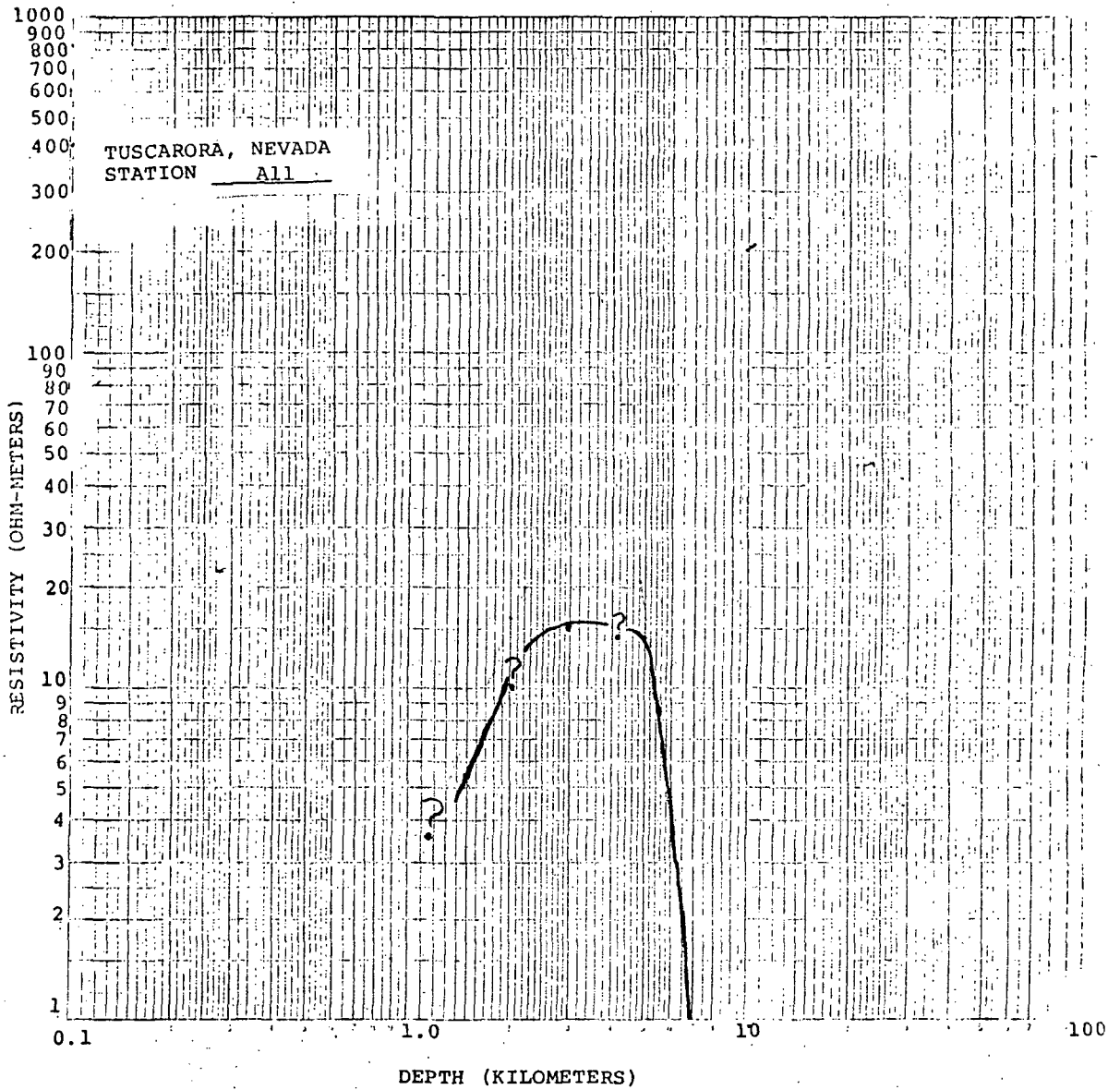


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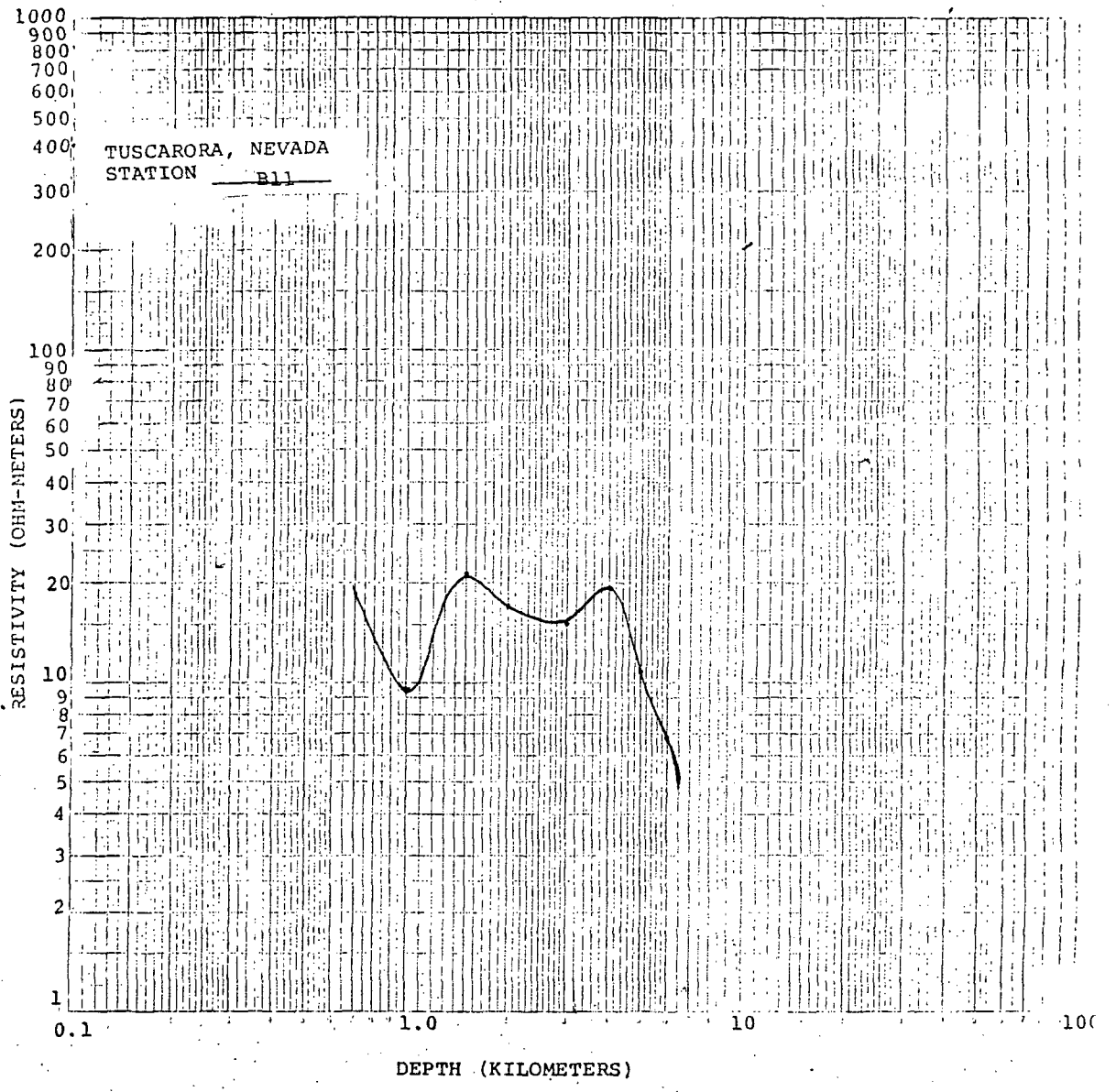
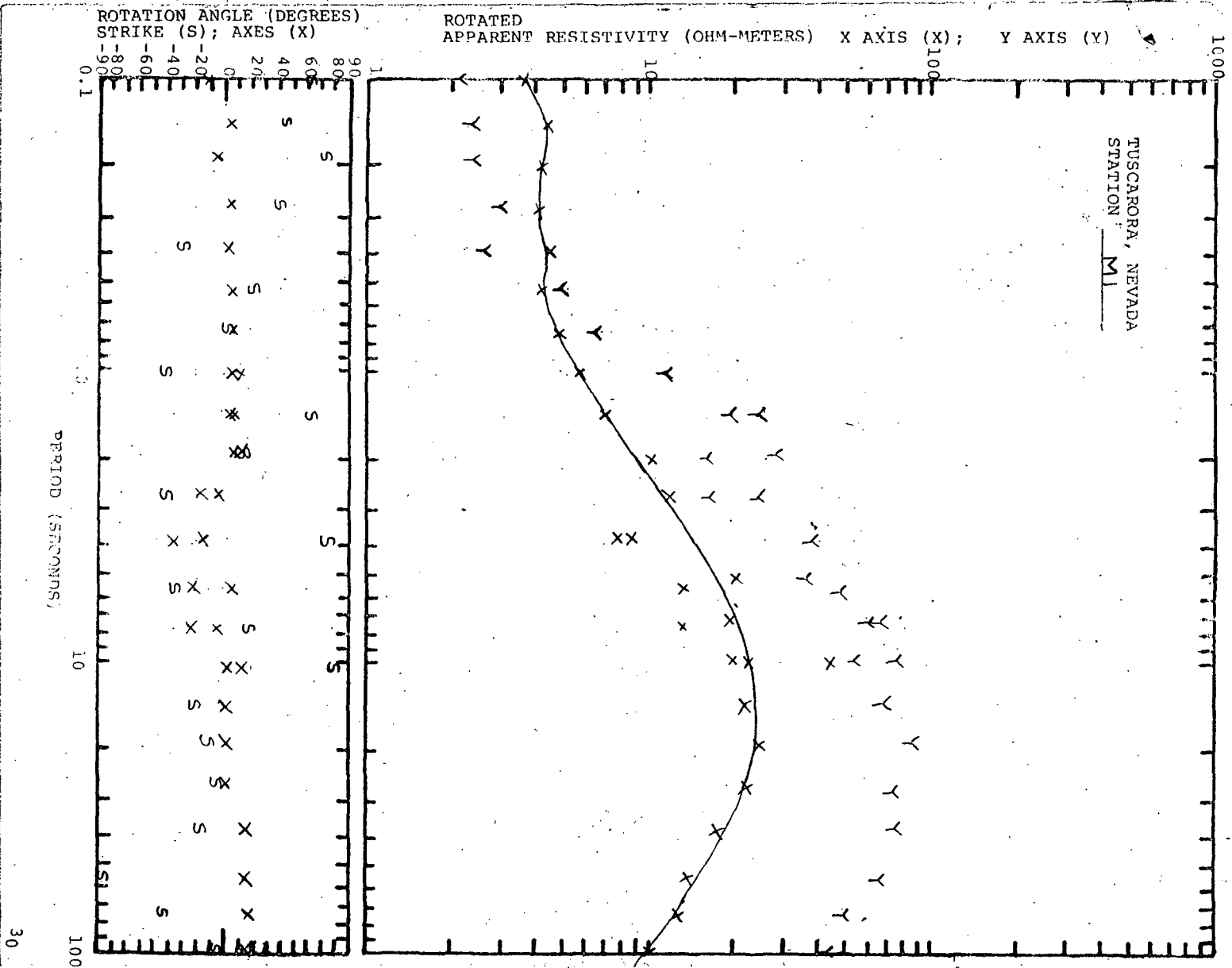
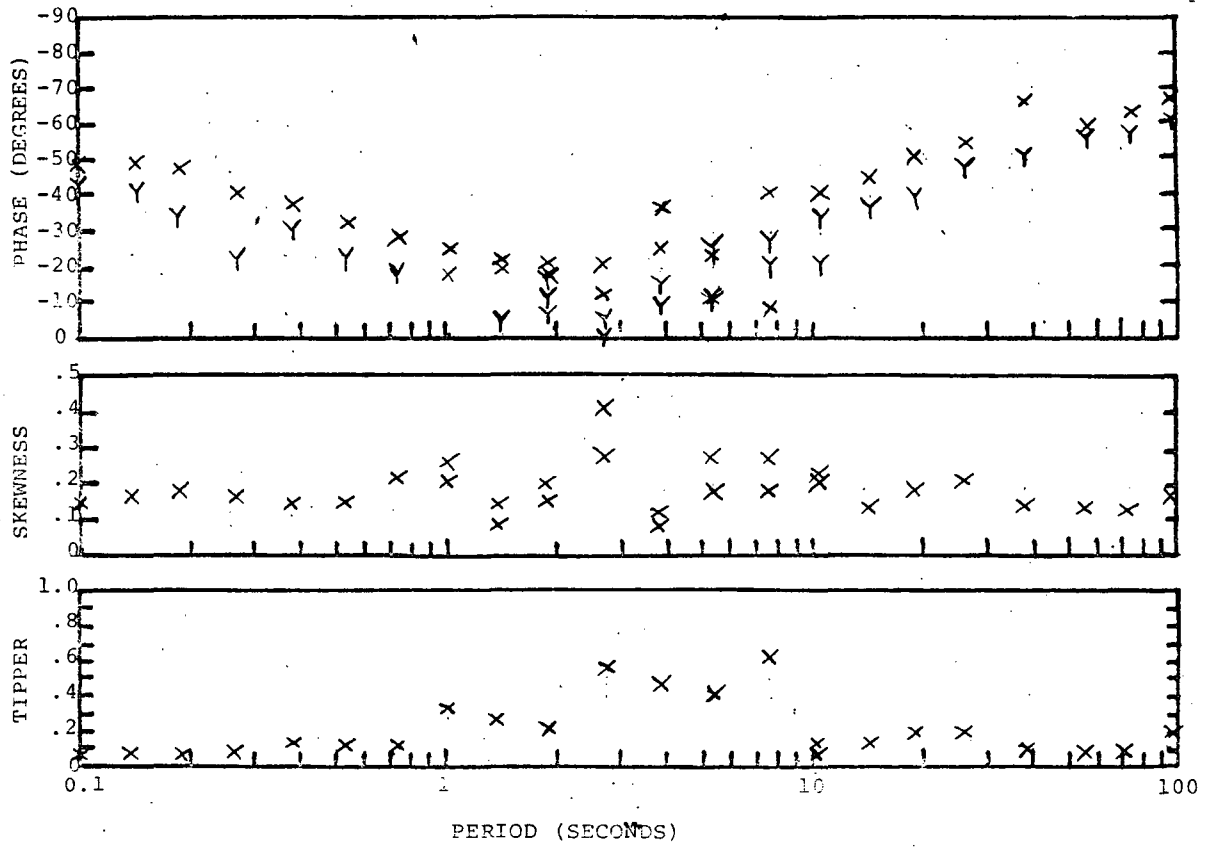
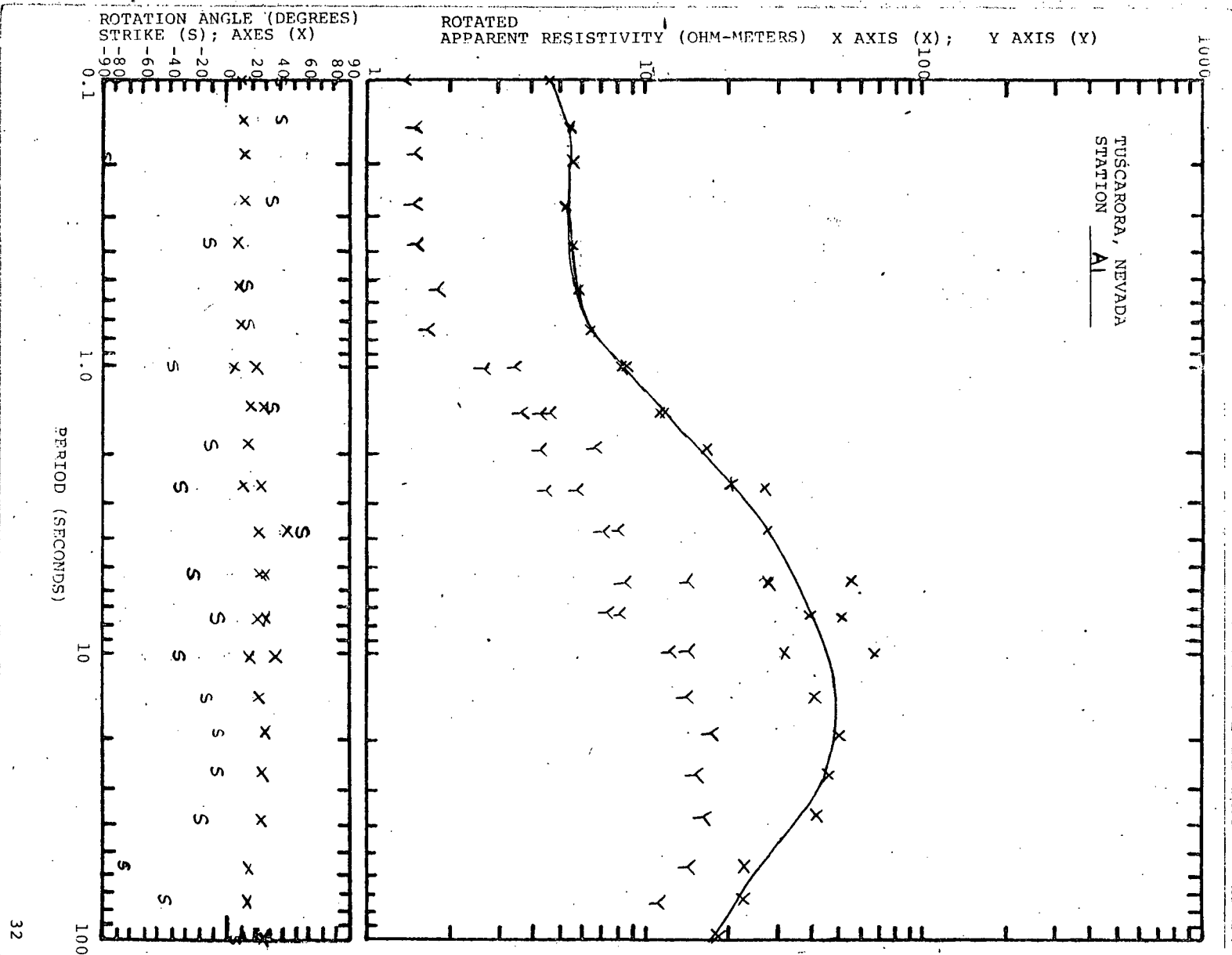


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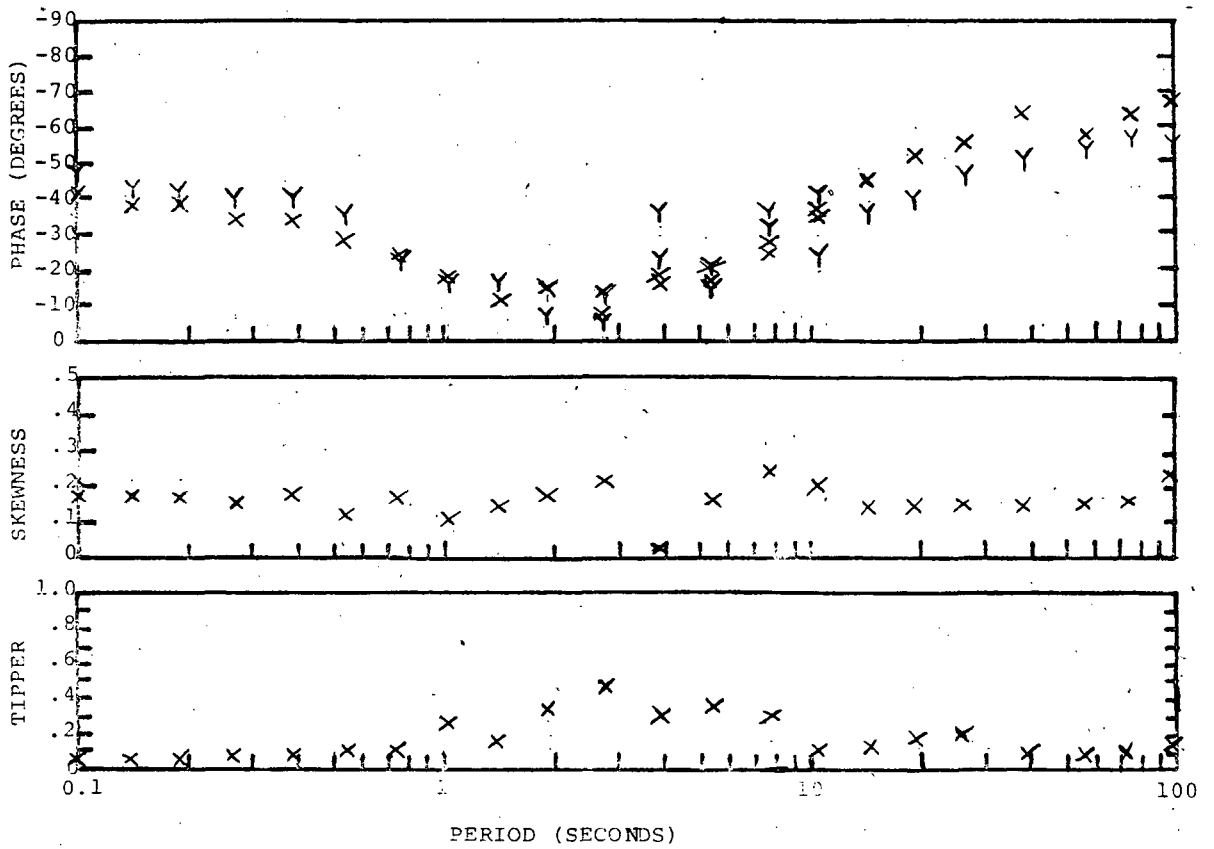


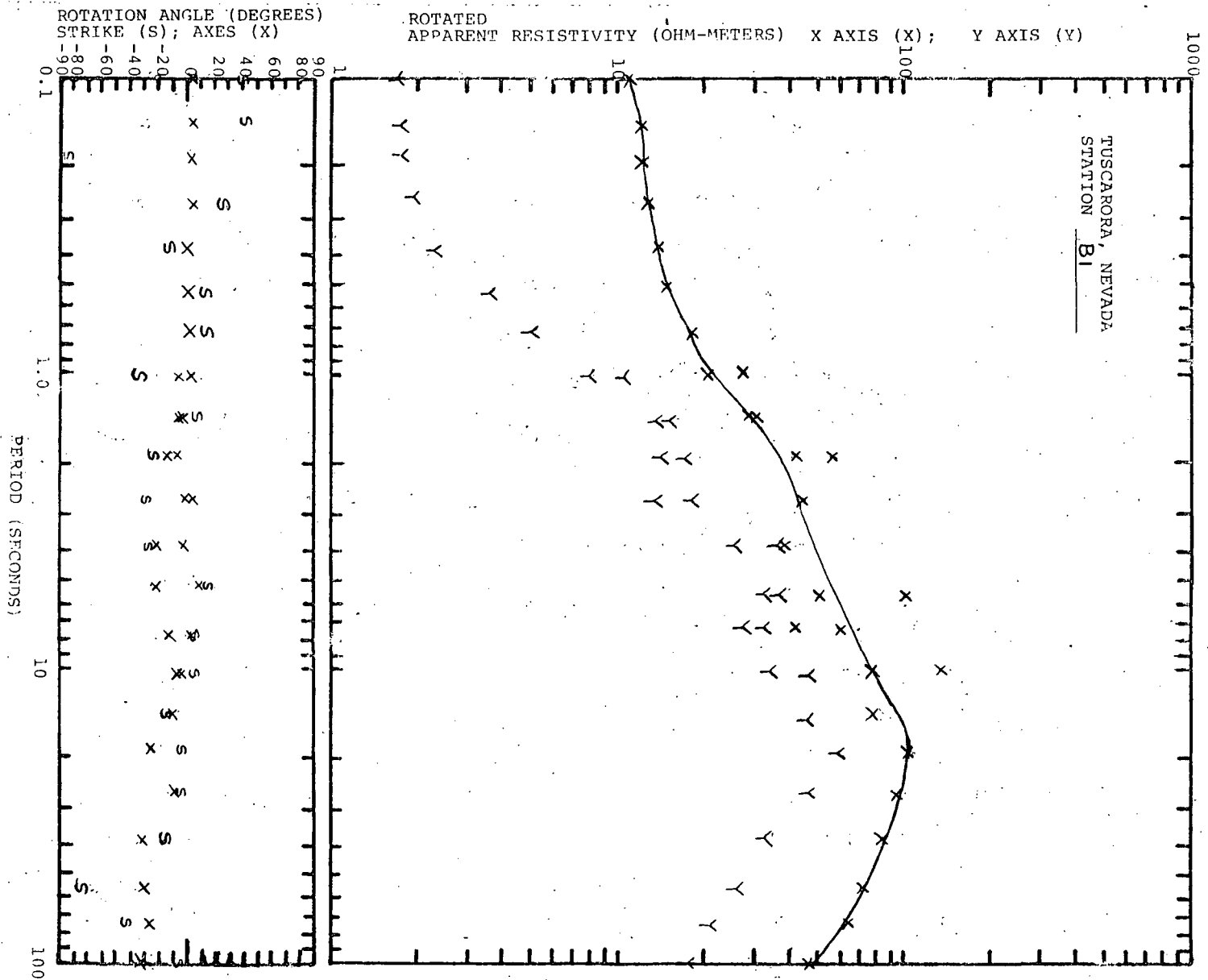
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STATION MI





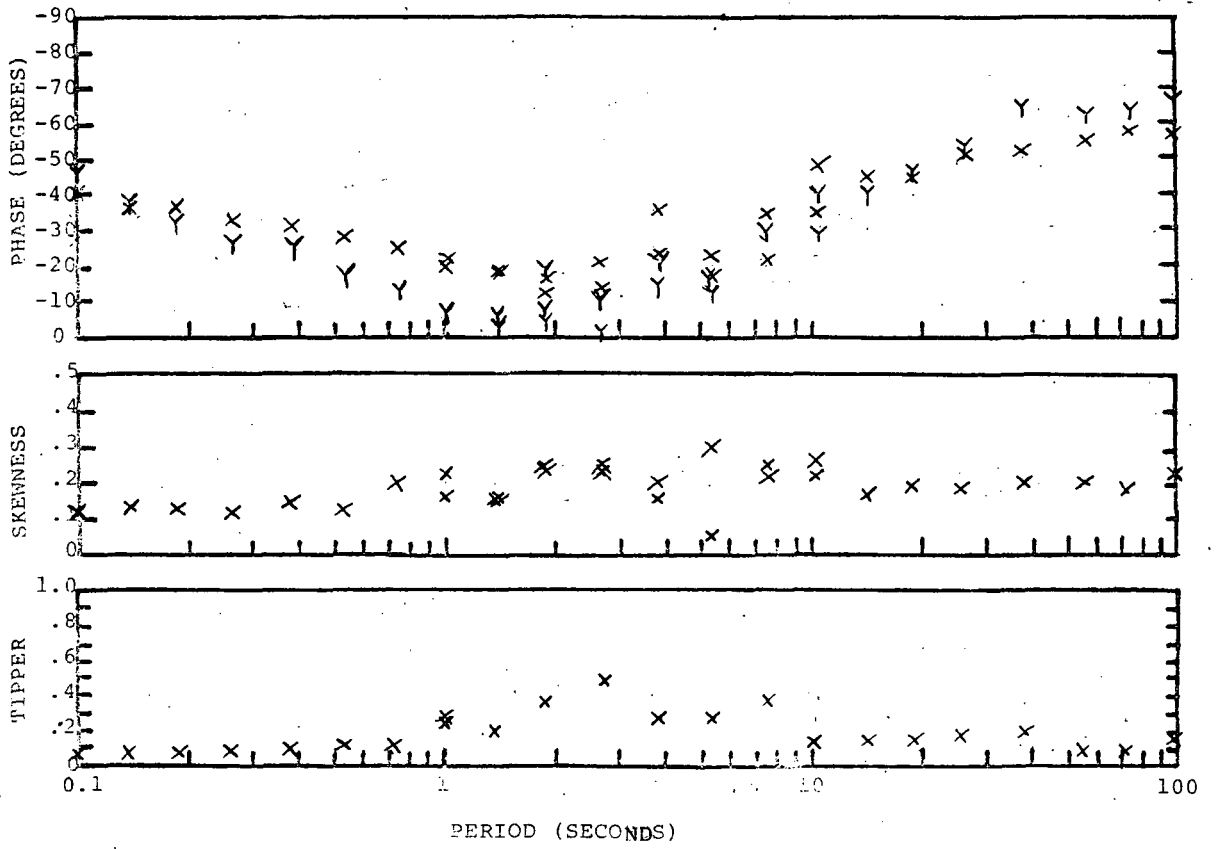
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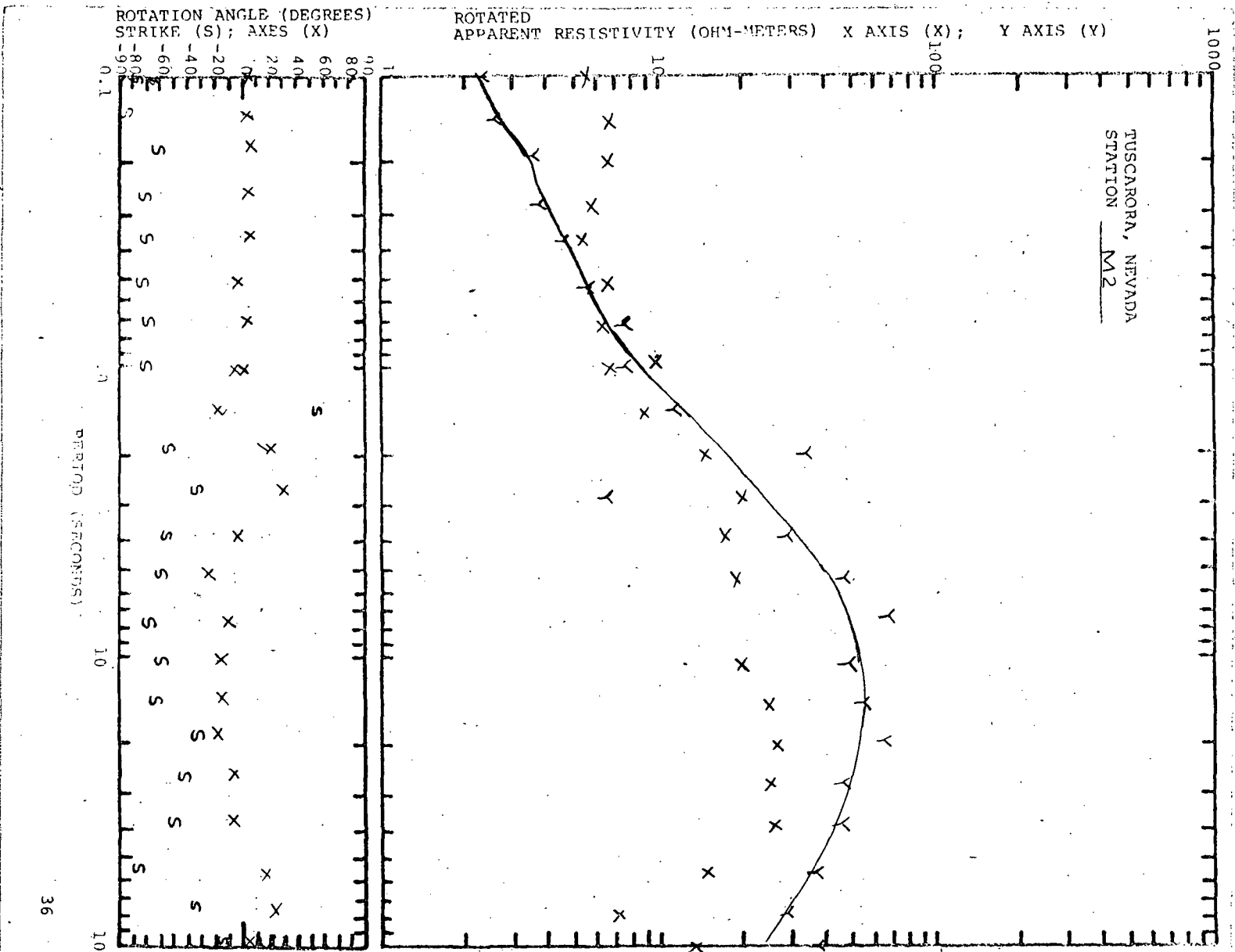




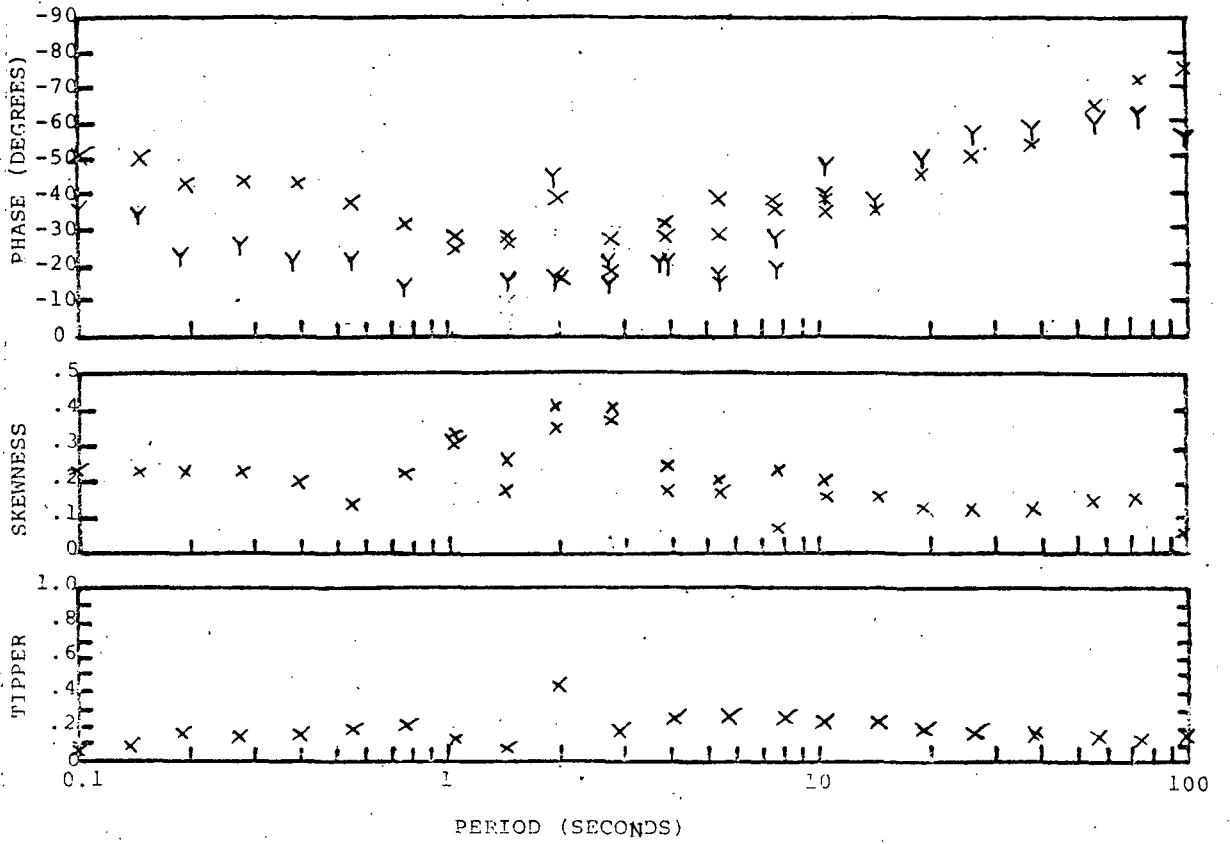


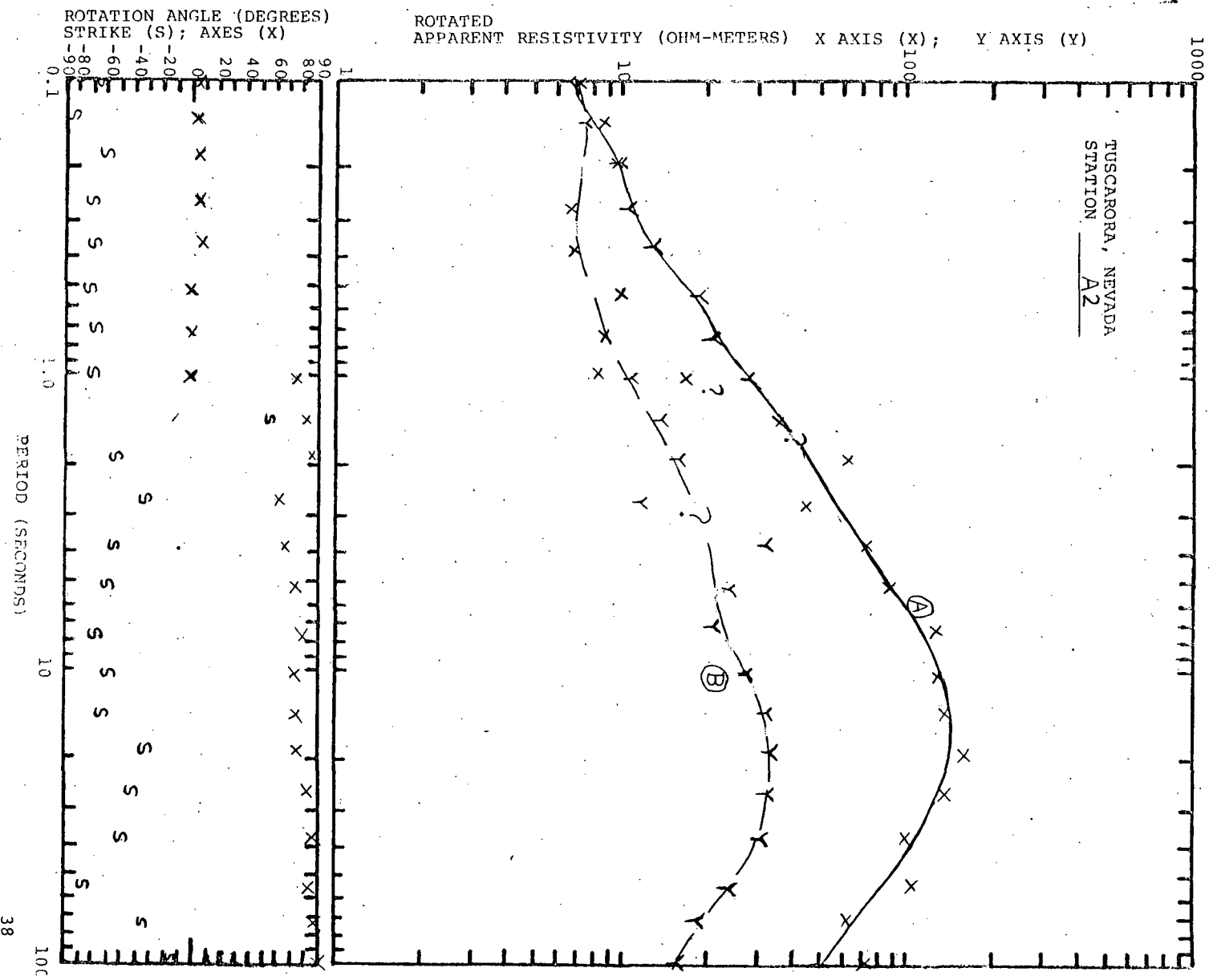
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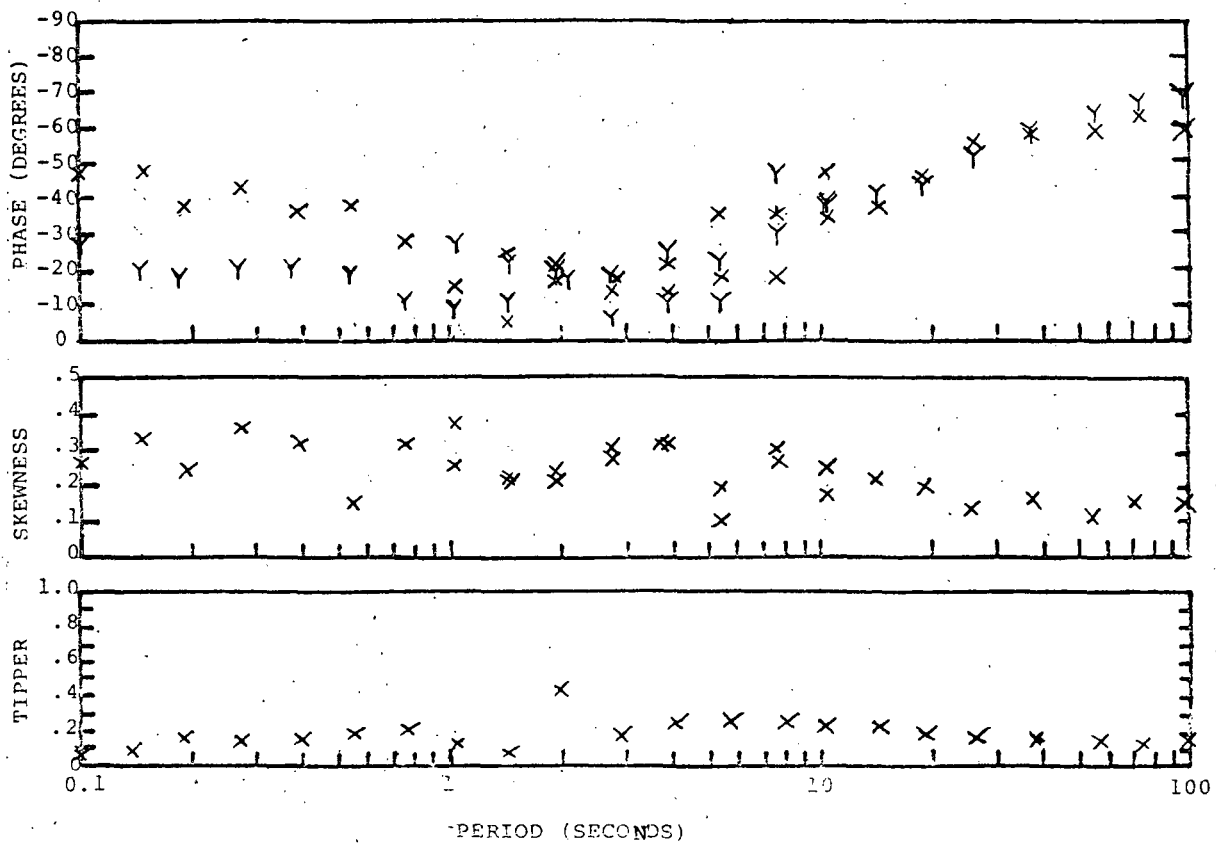


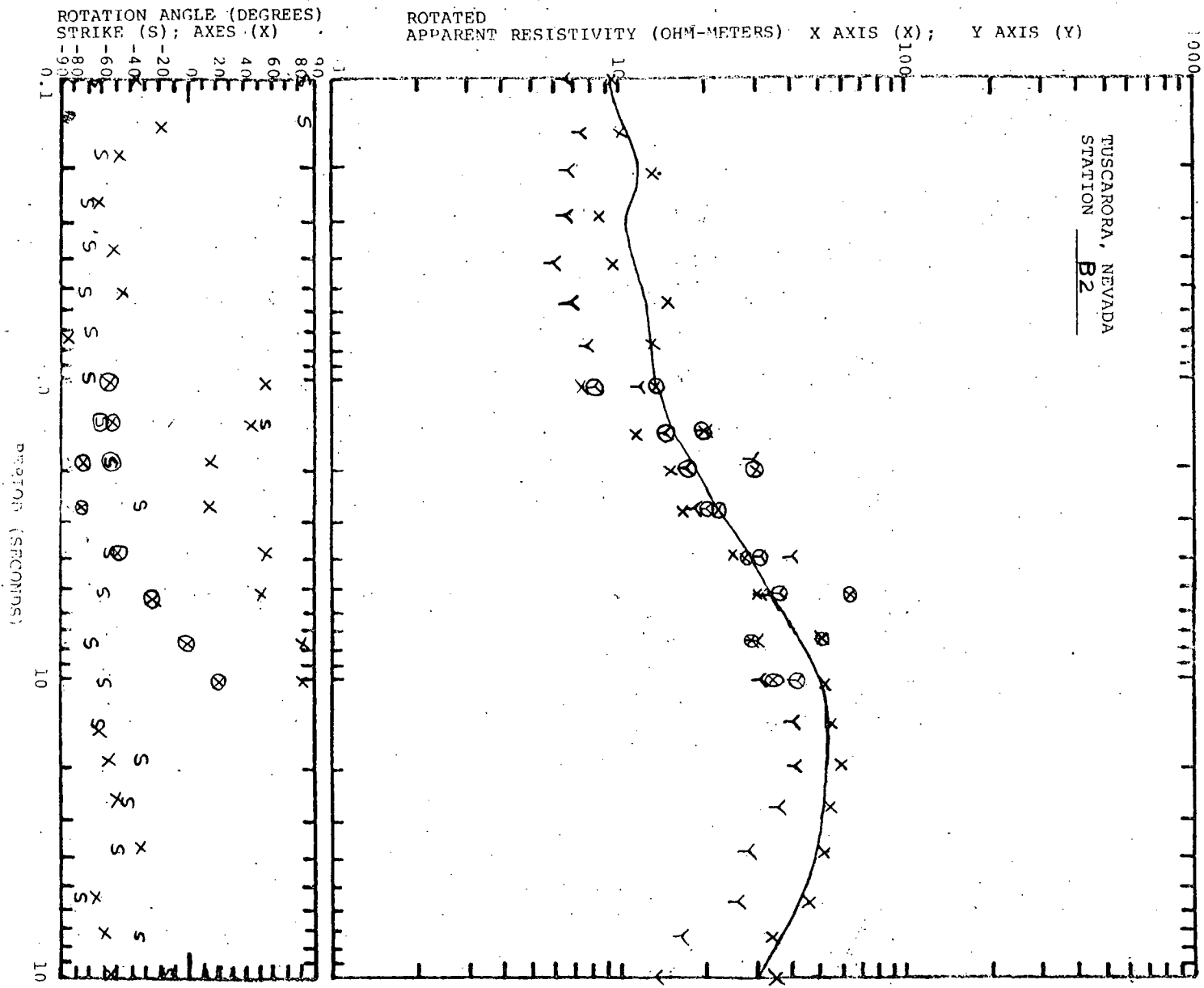
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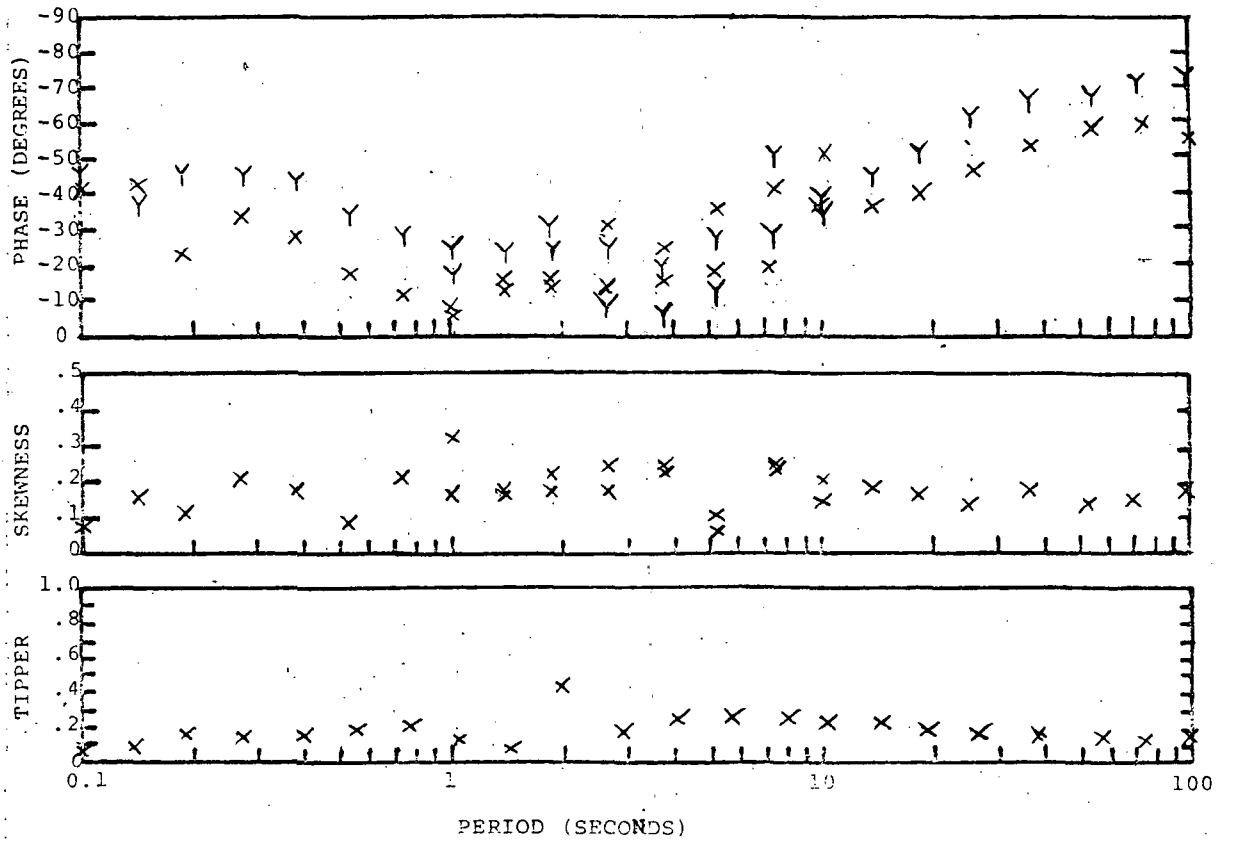


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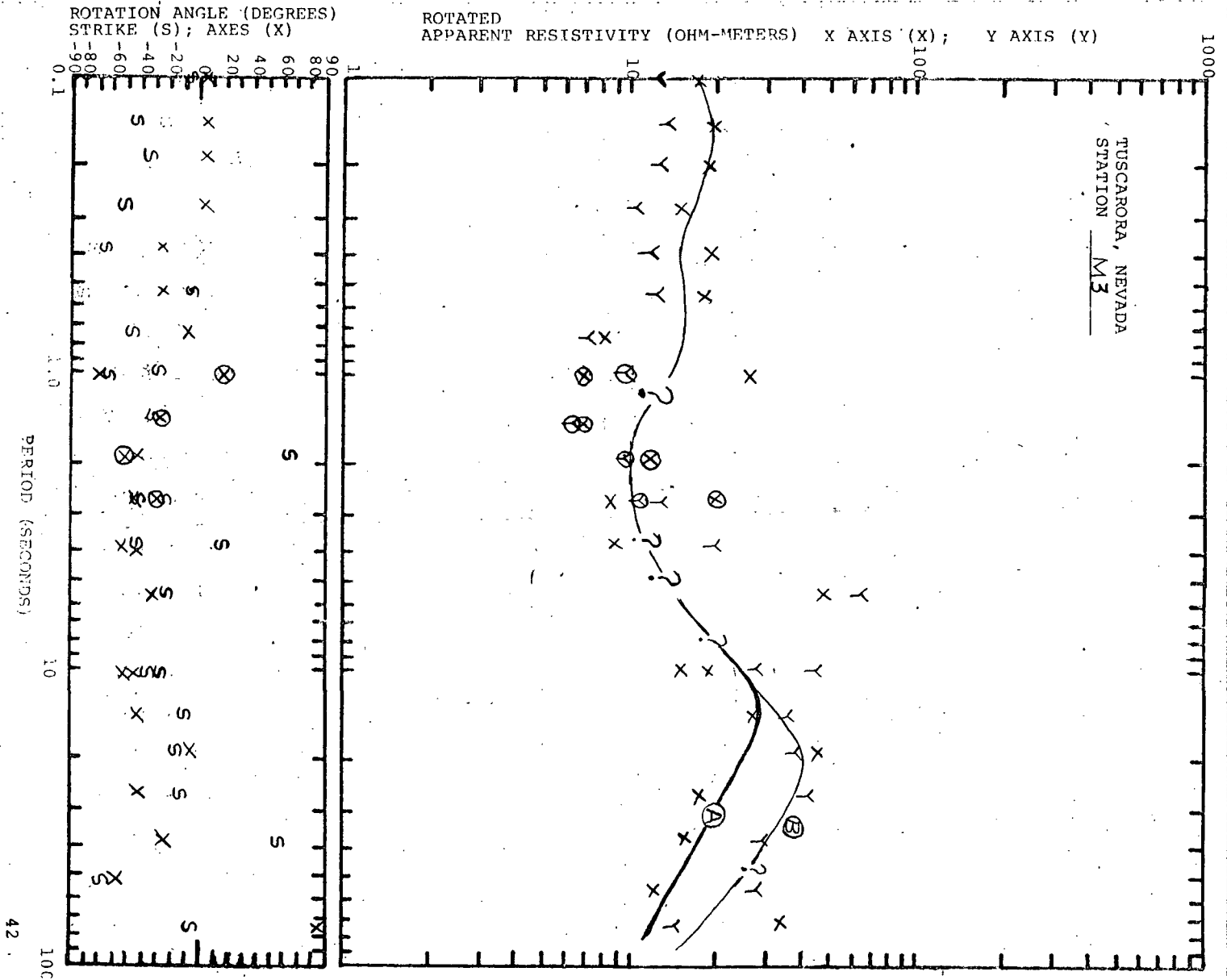




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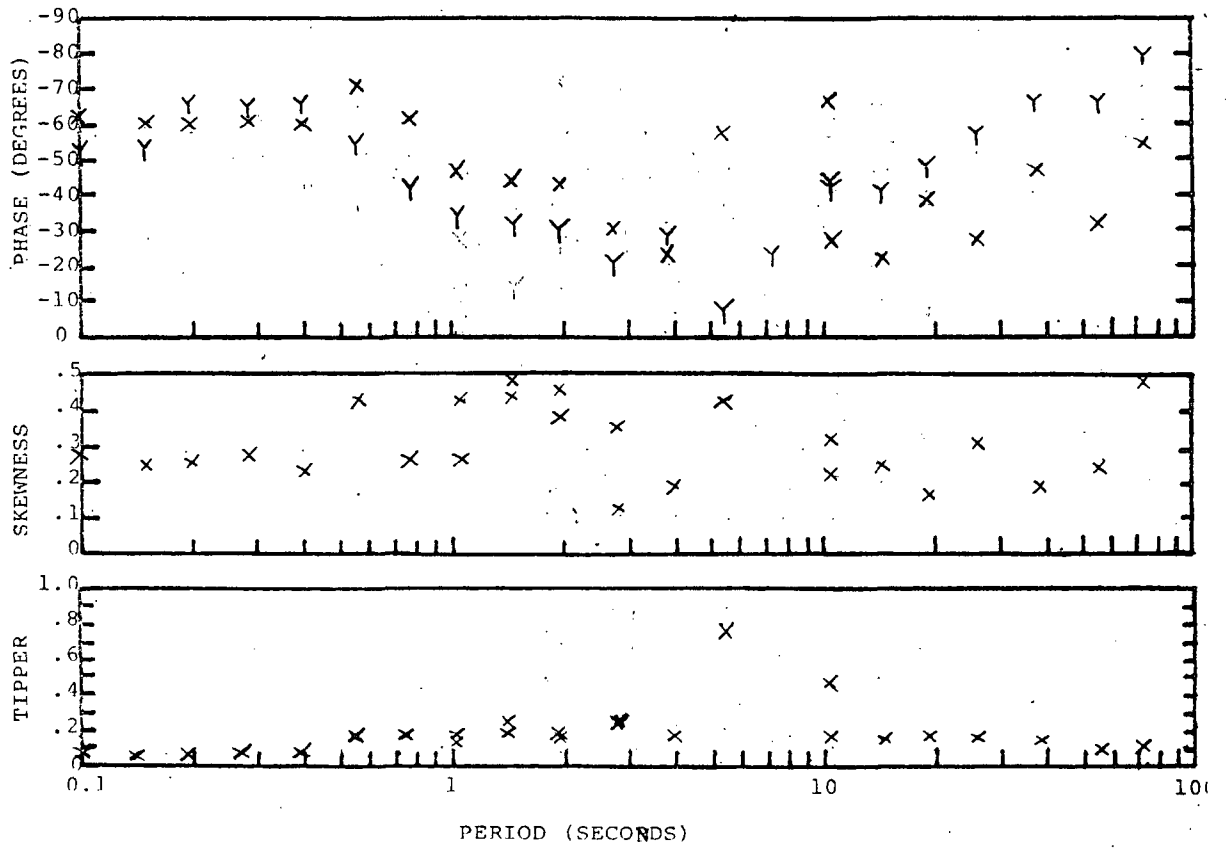


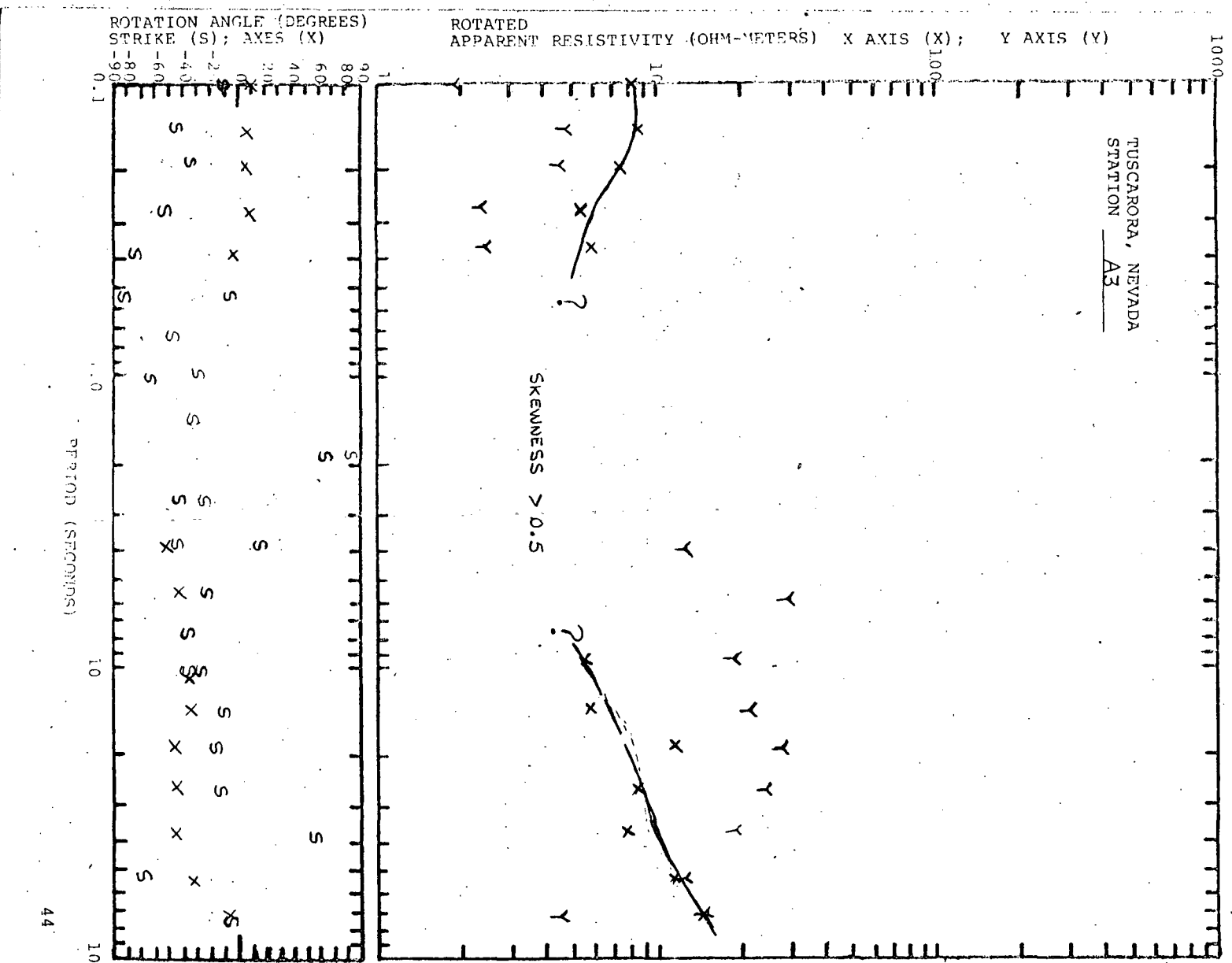
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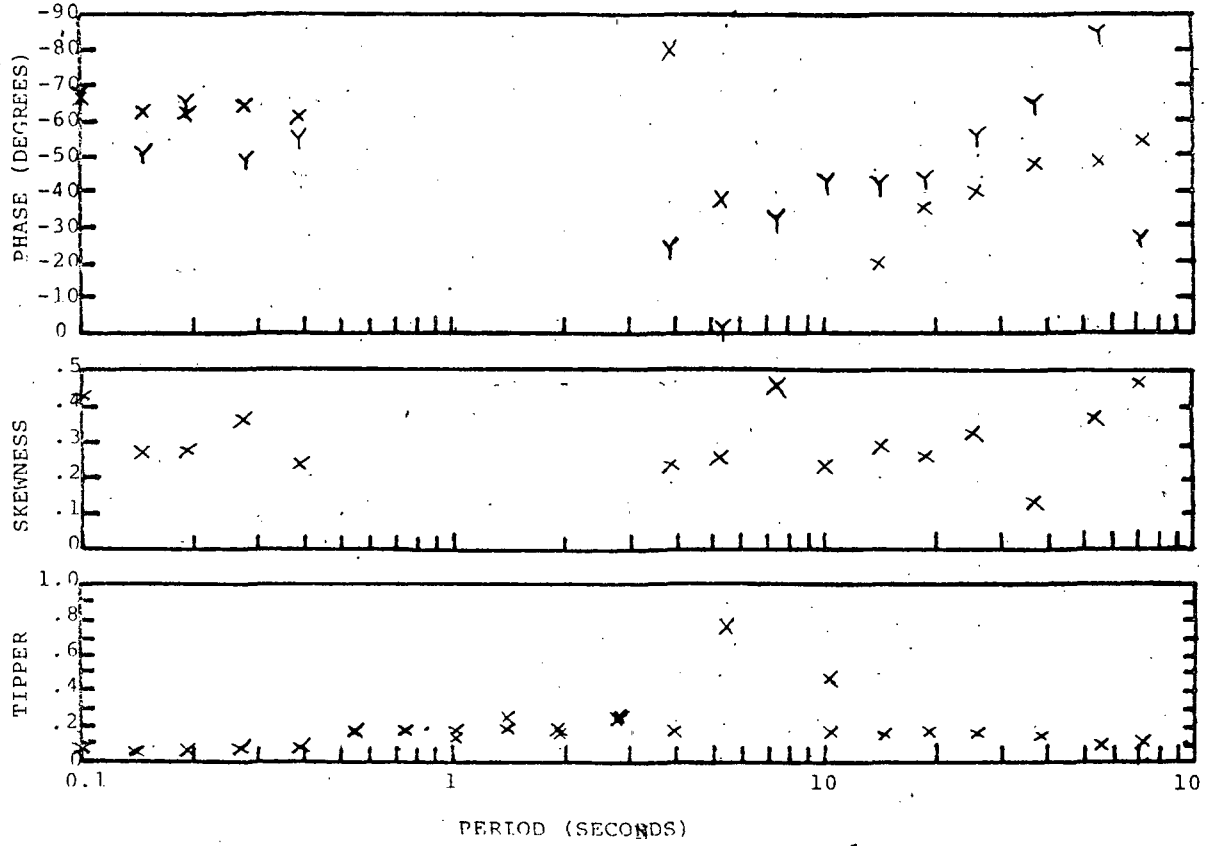


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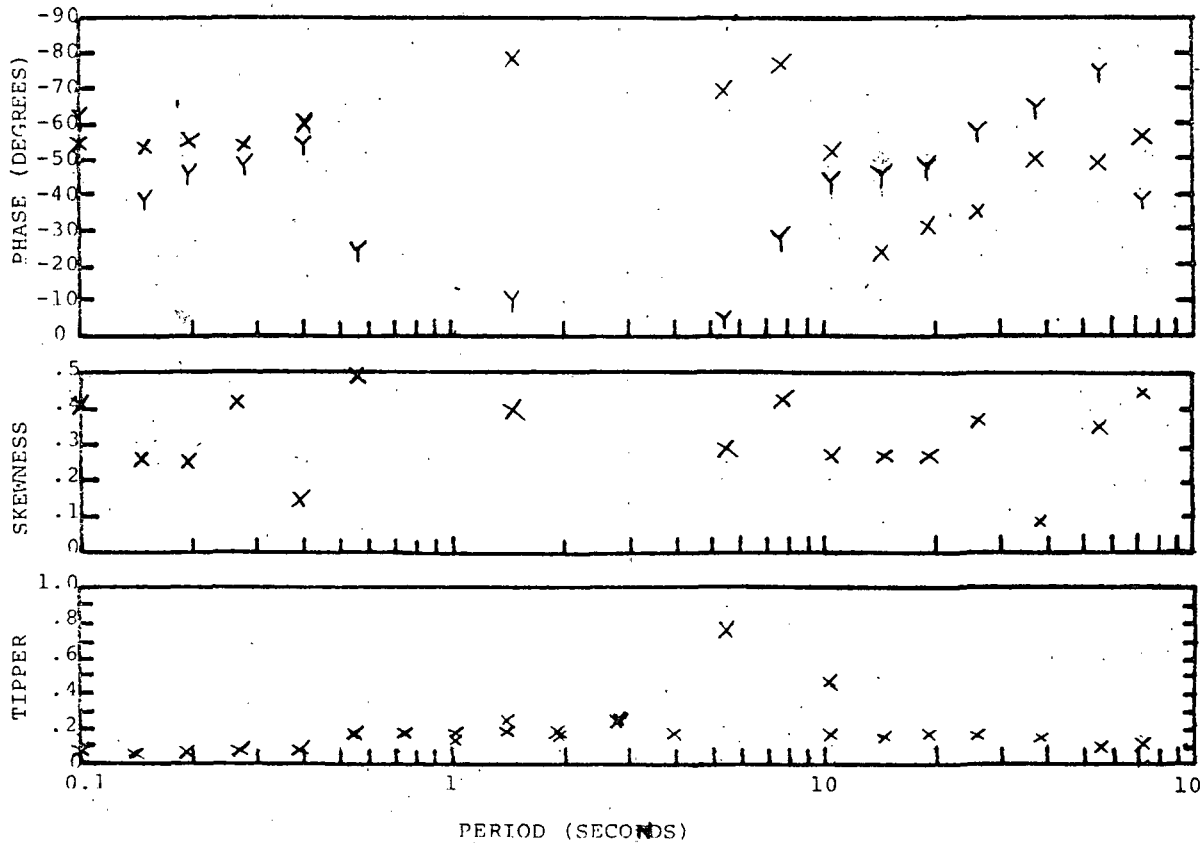


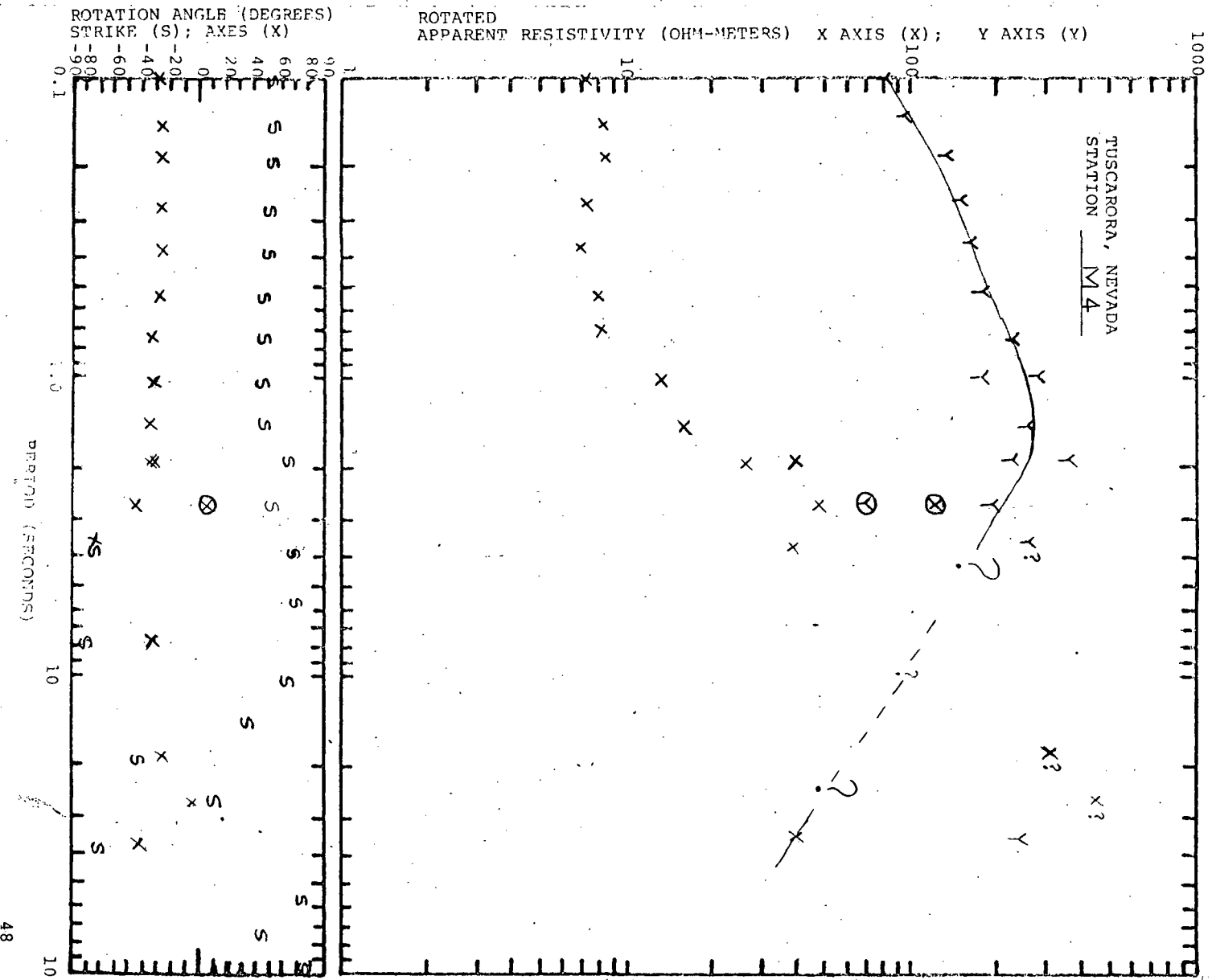
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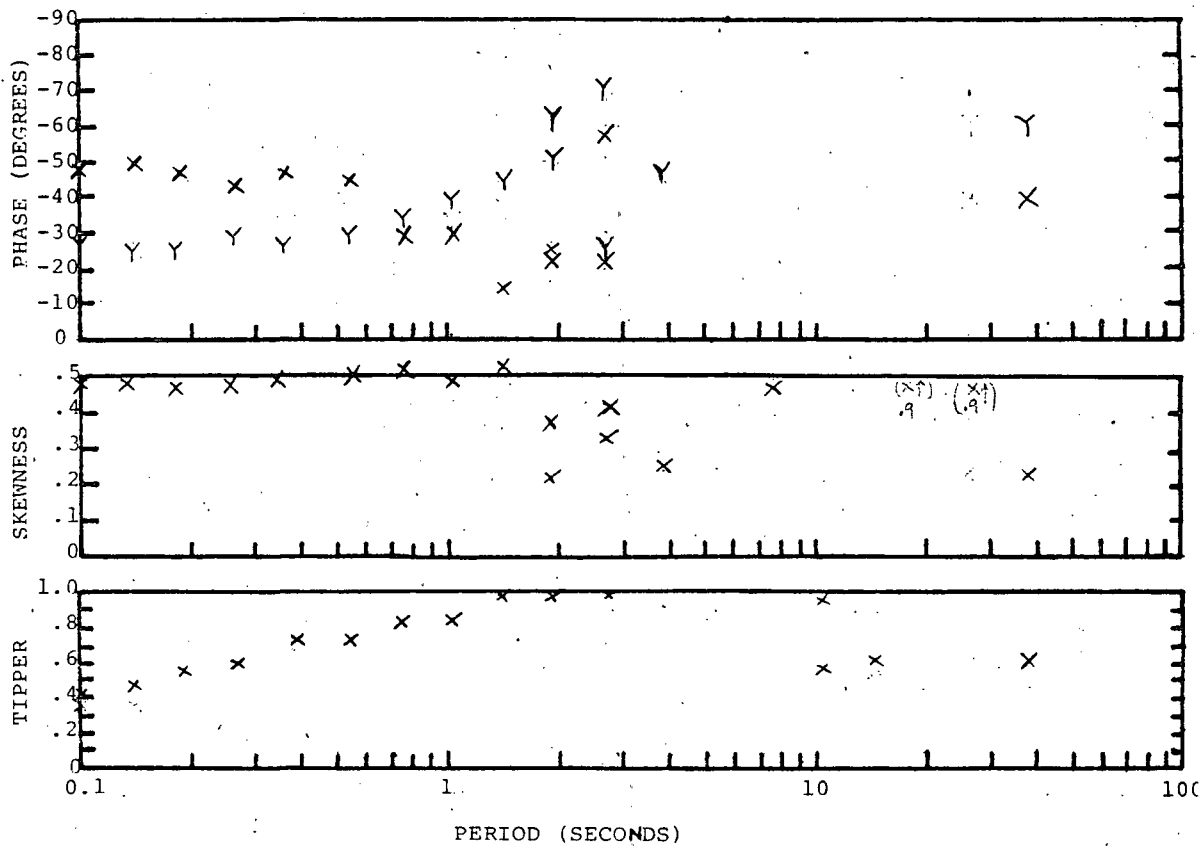


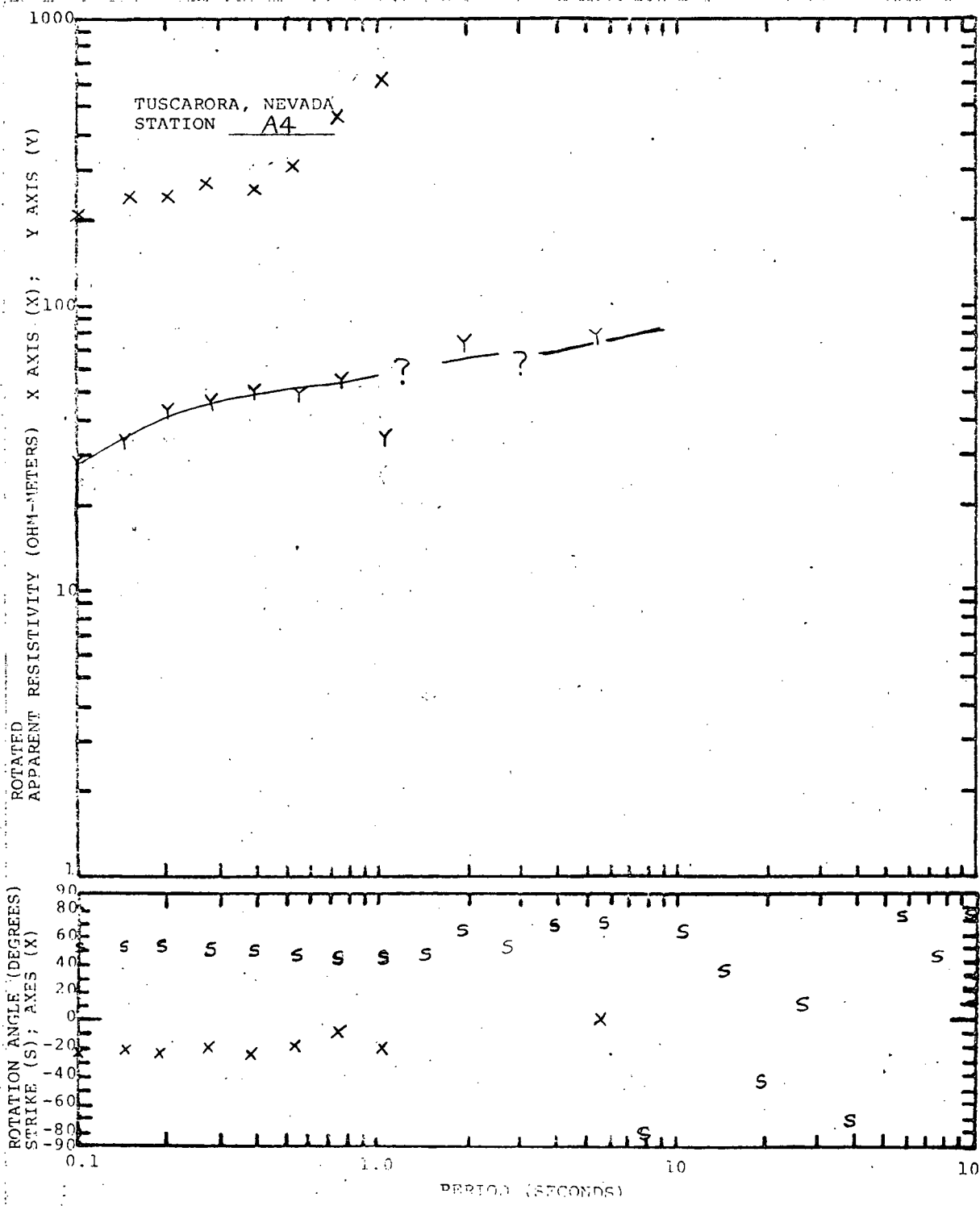
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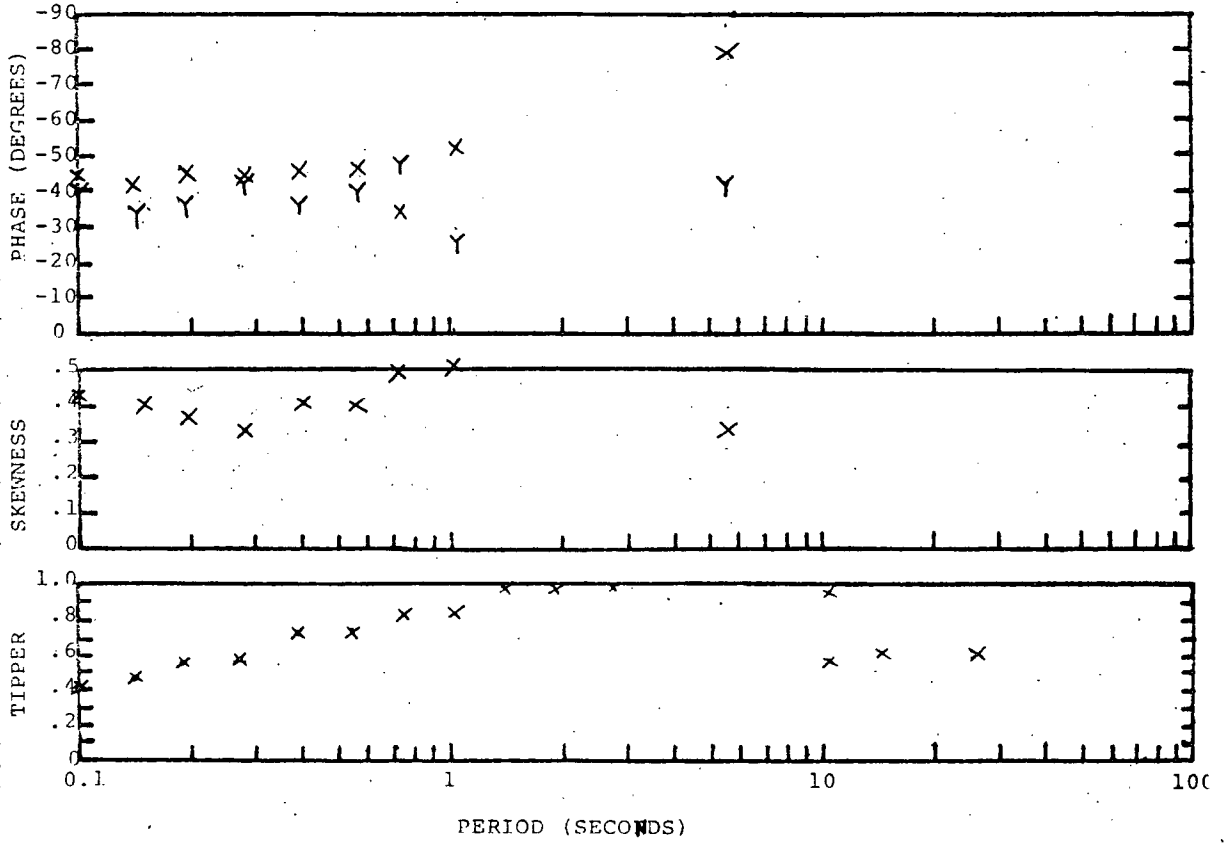
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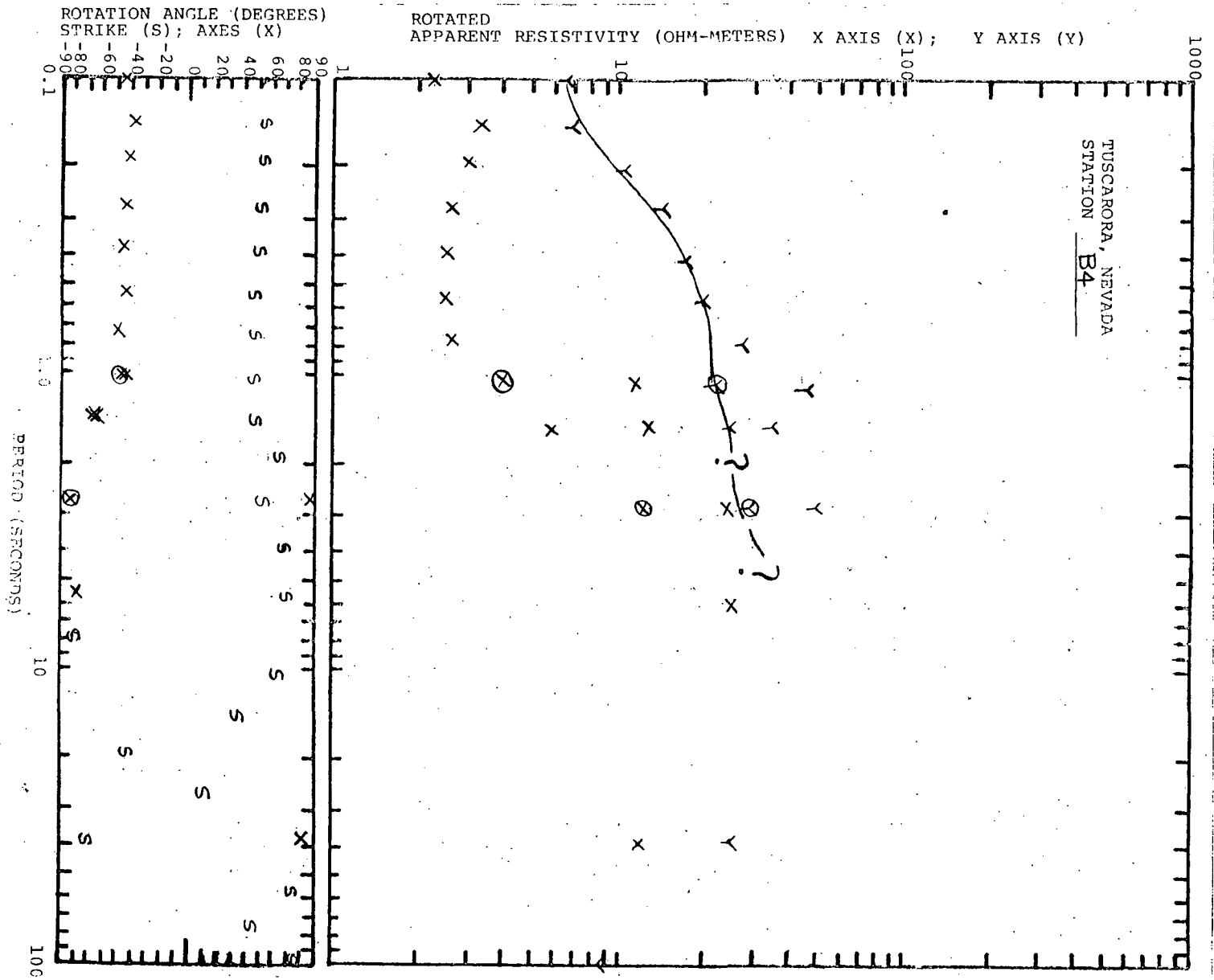




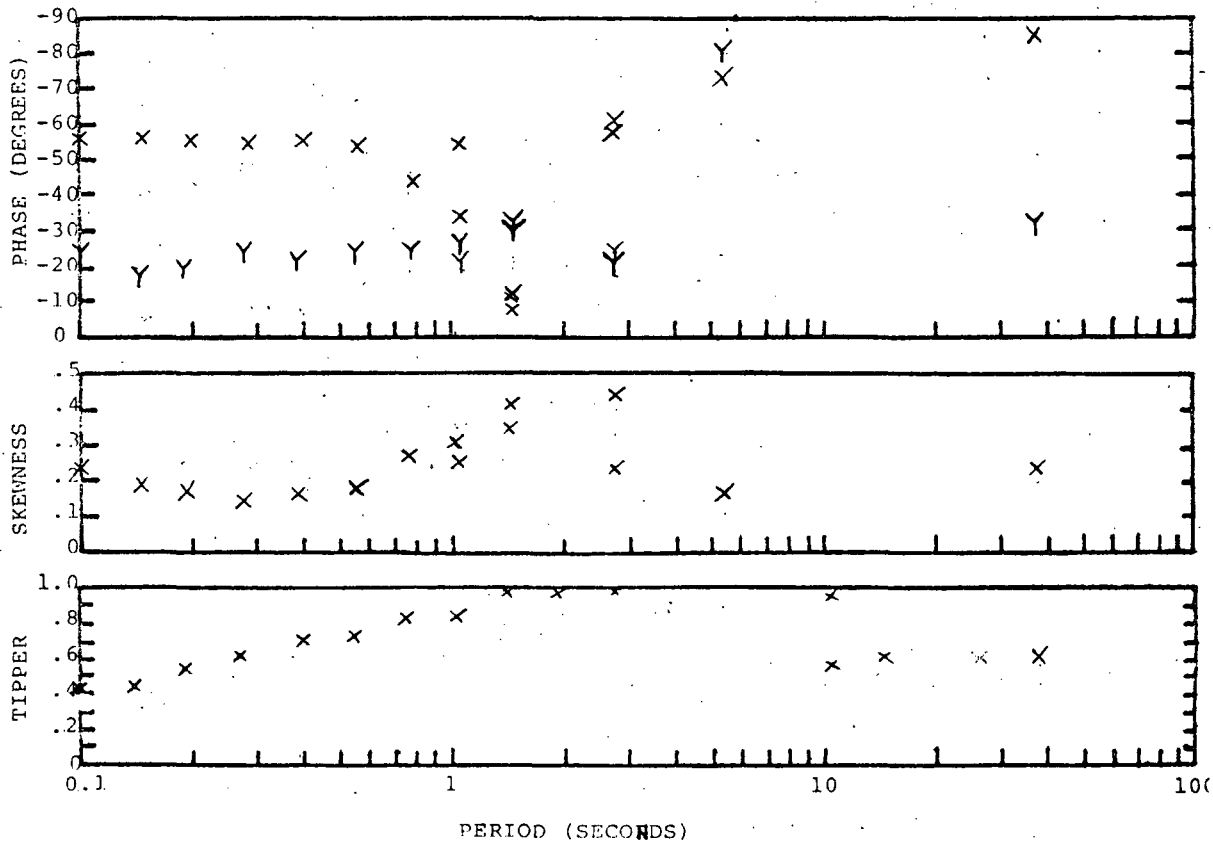


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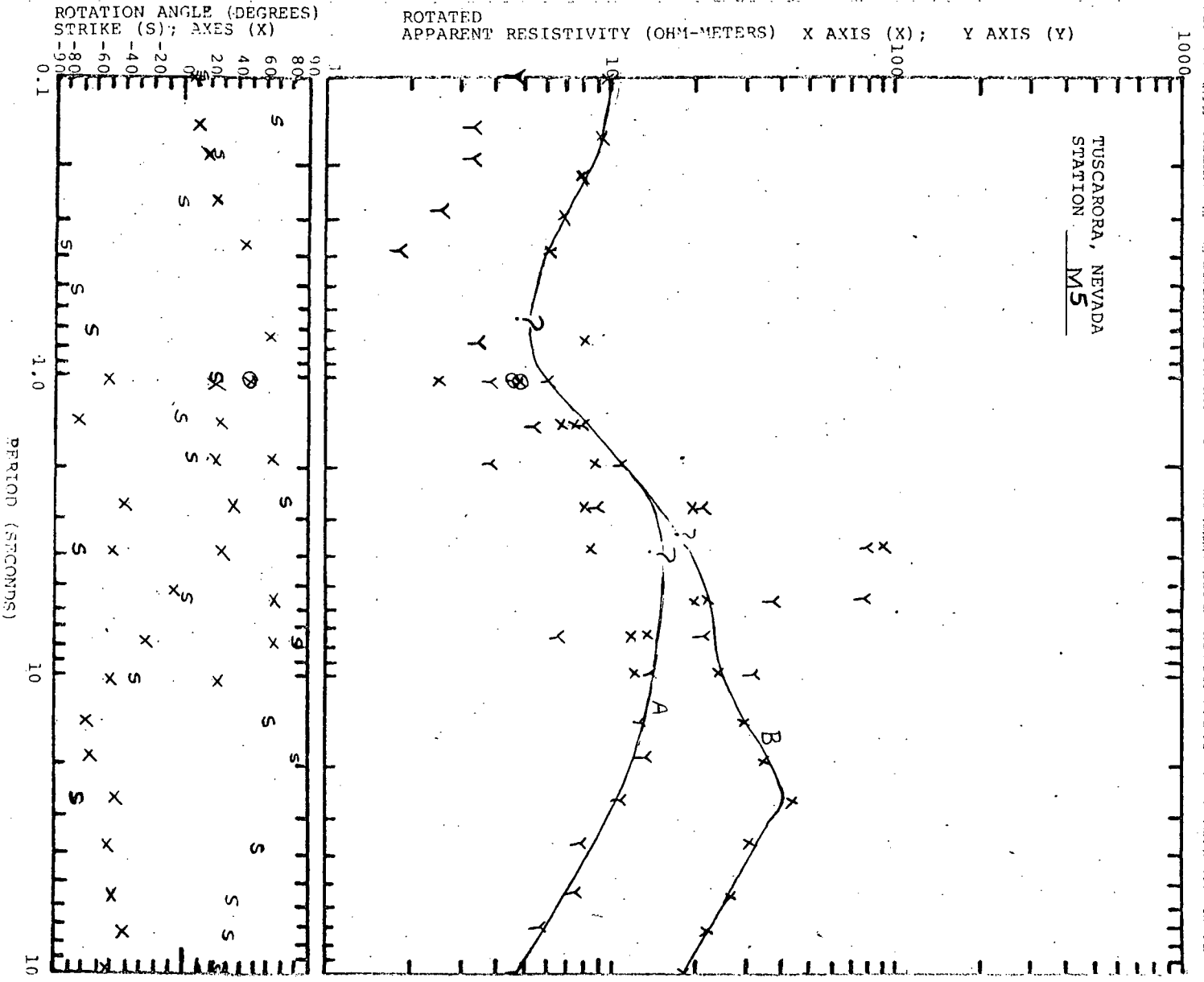




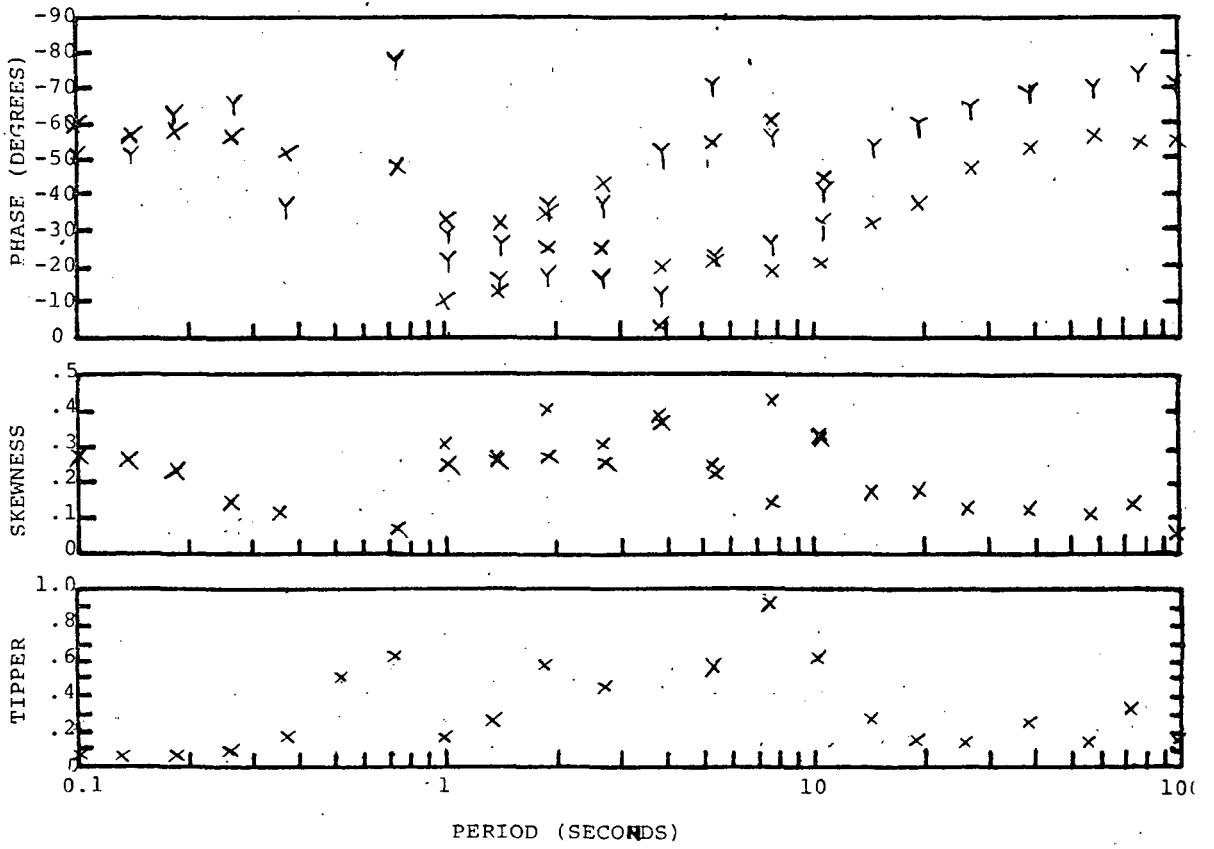
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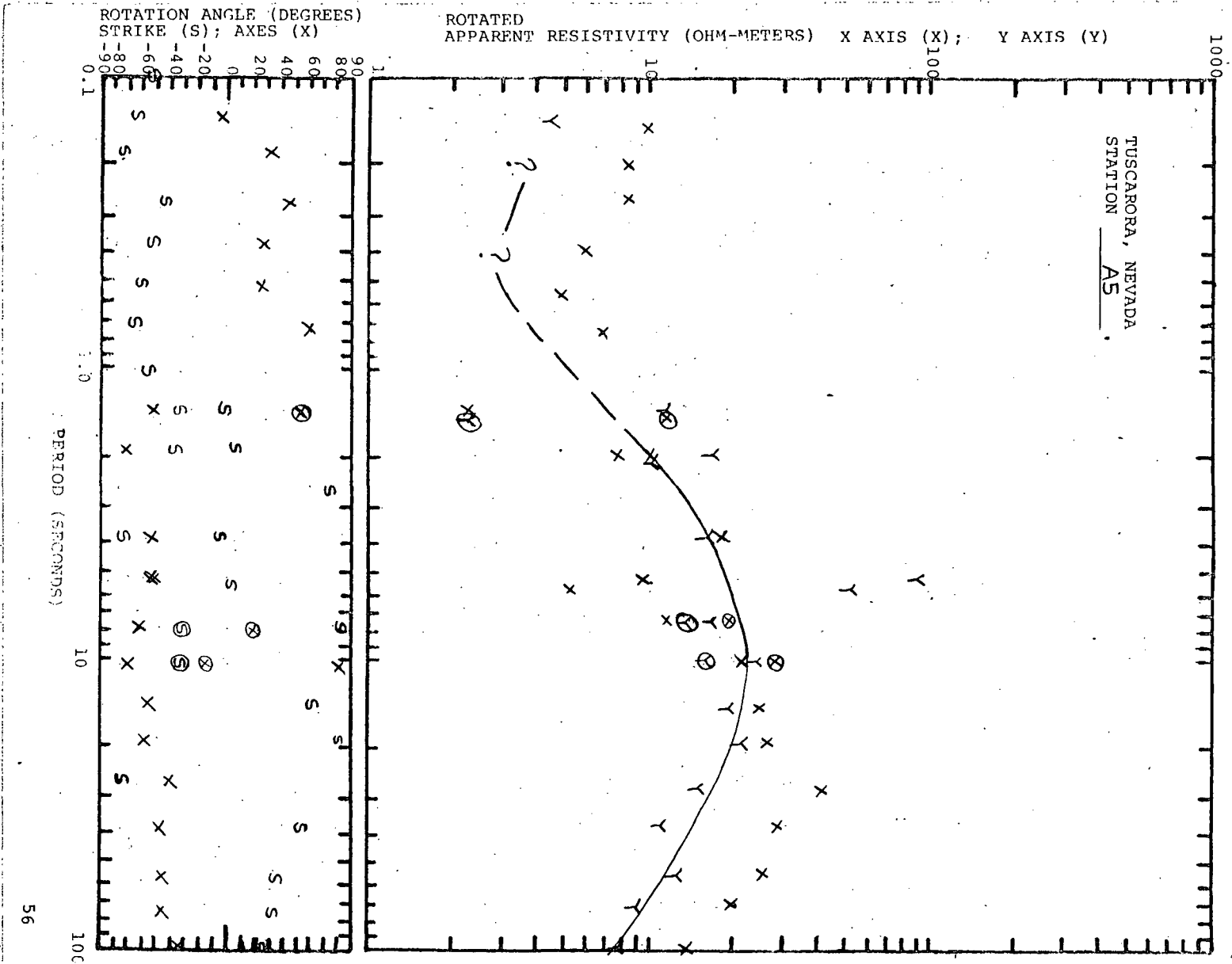


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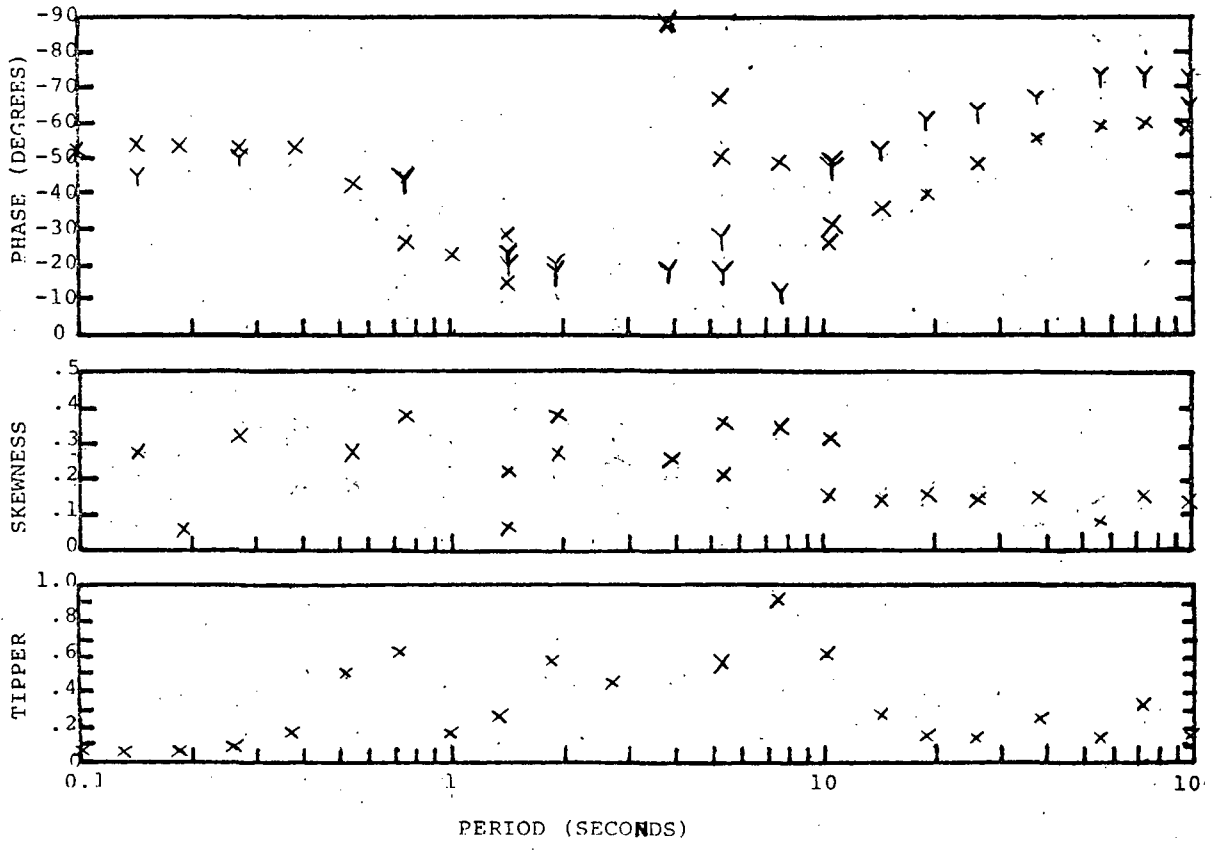


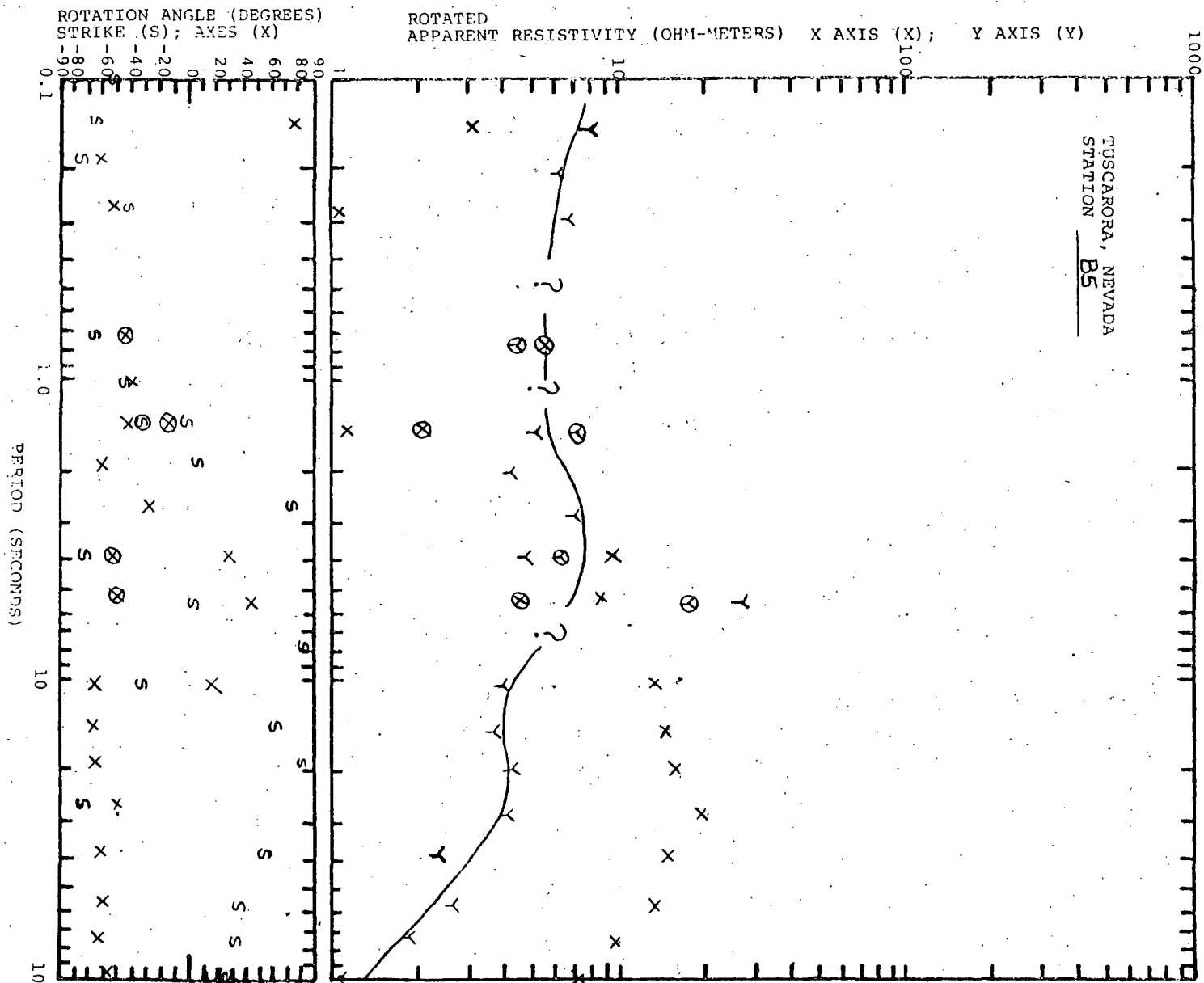
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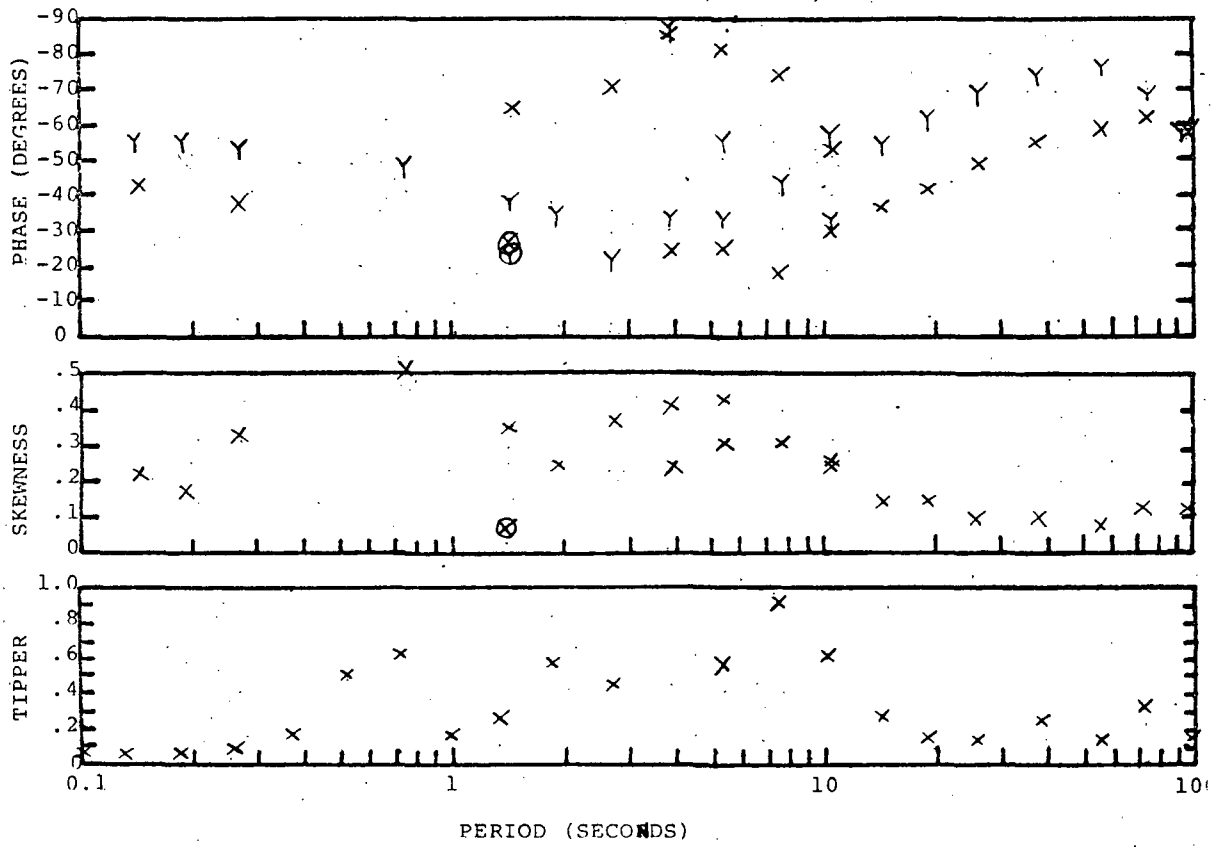
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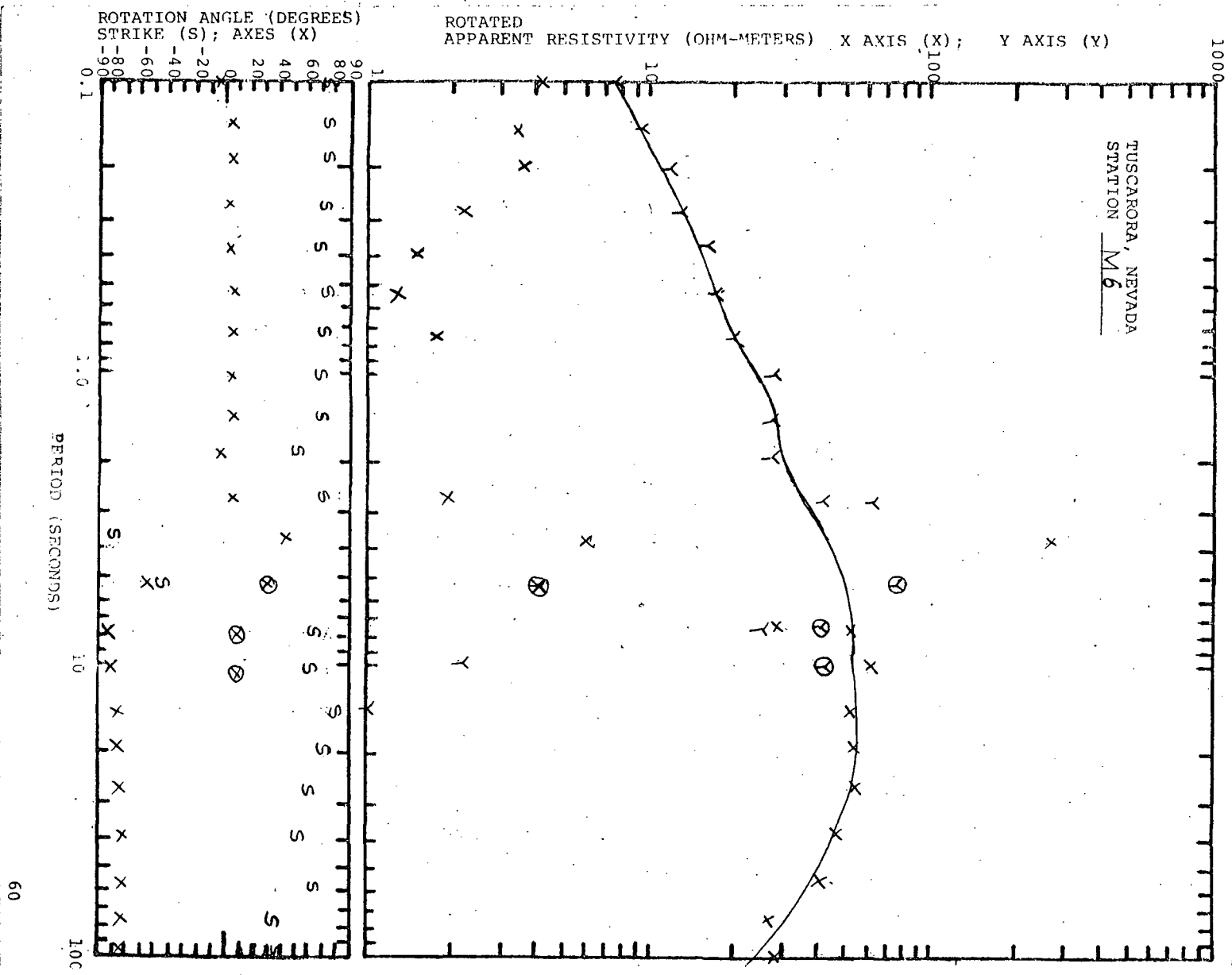




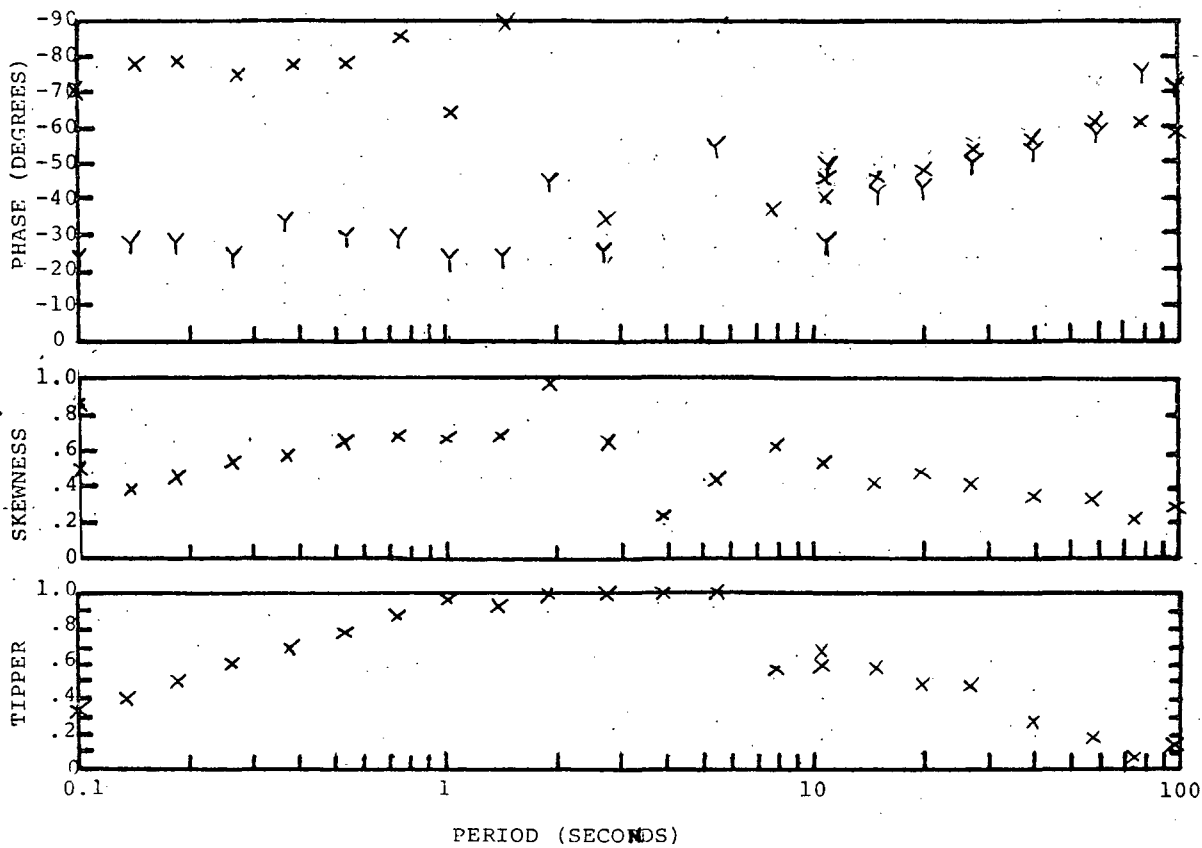


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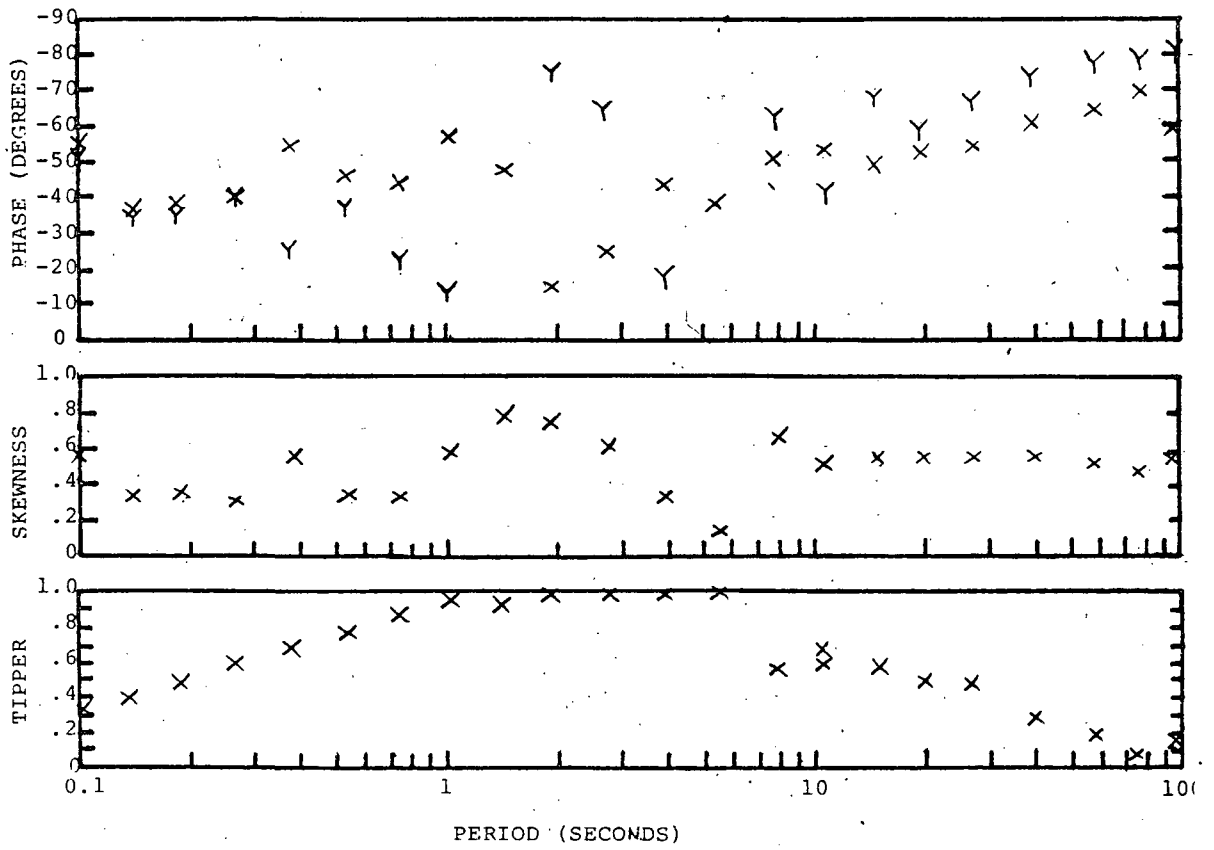


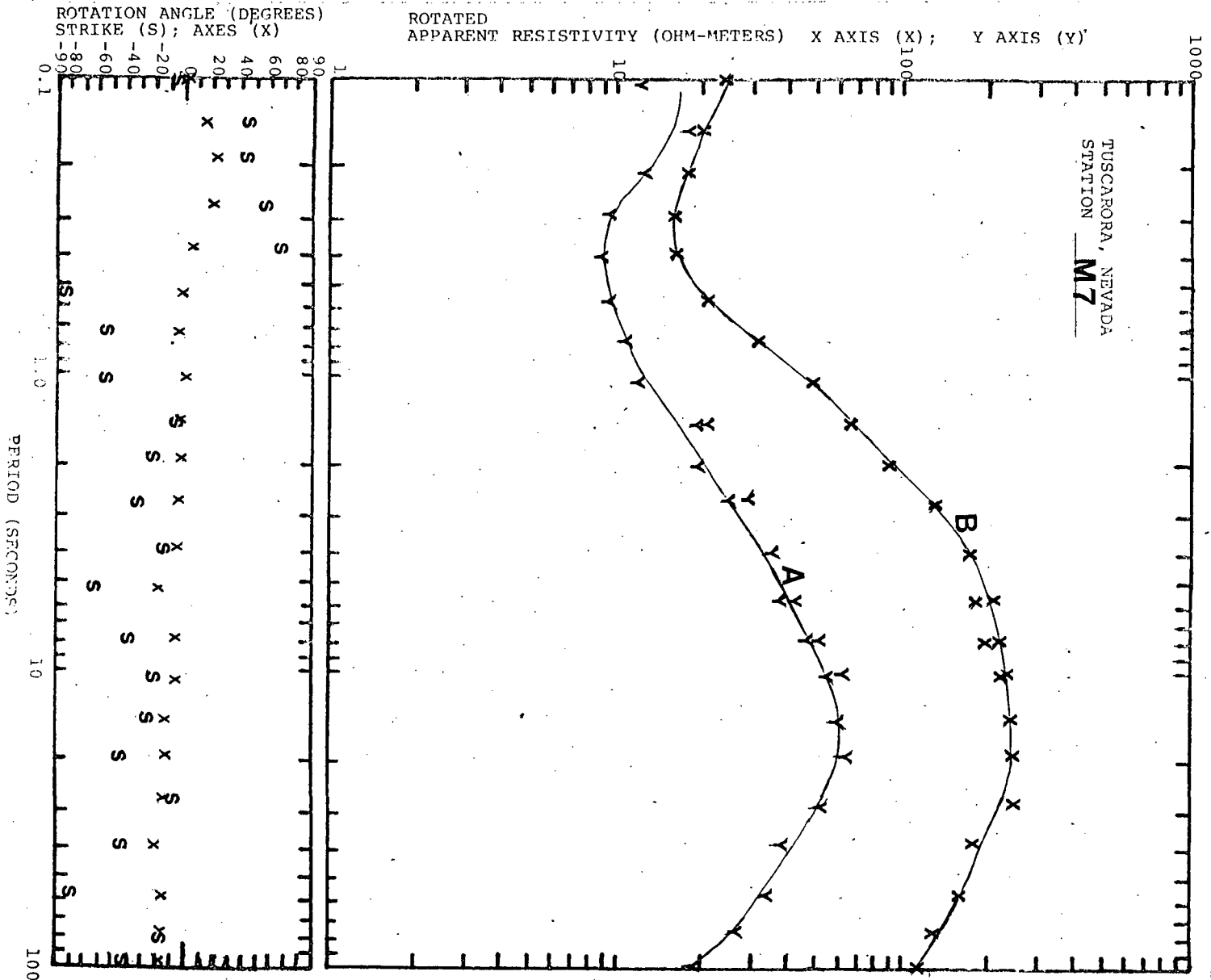
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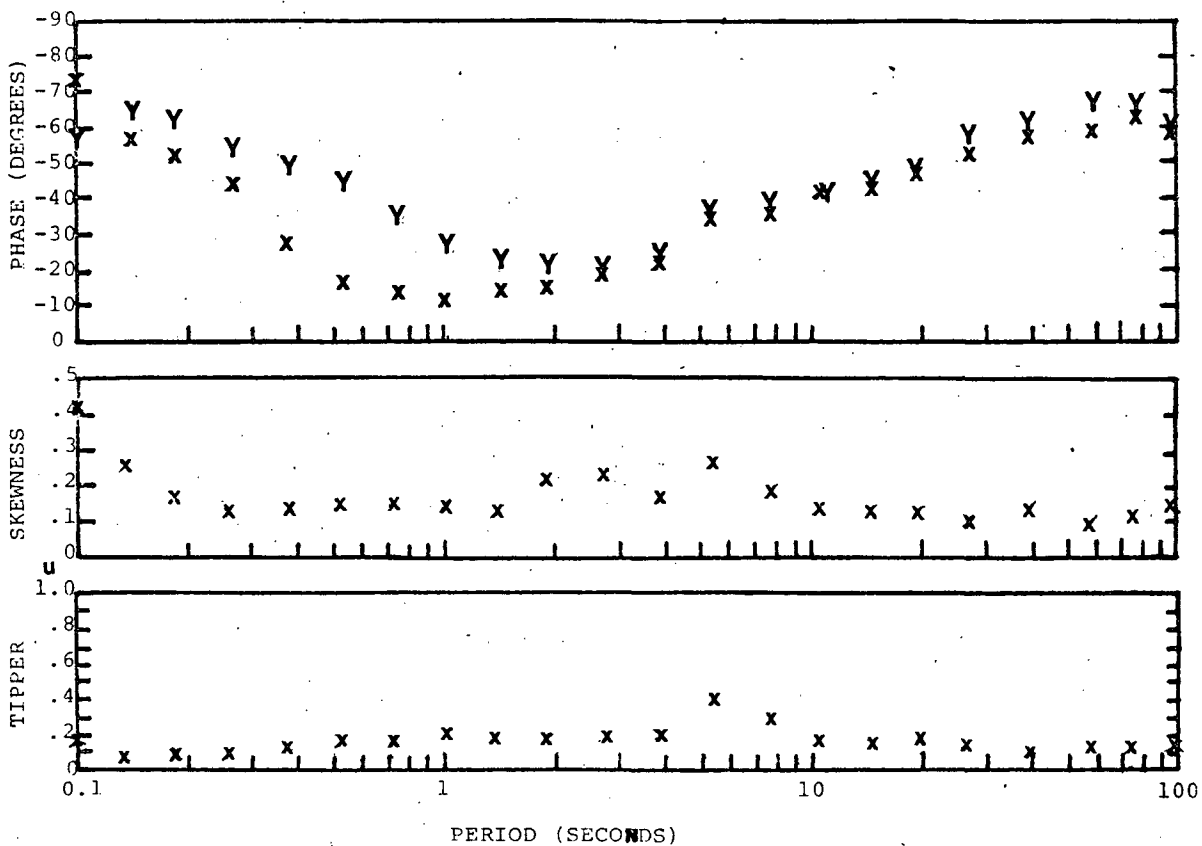


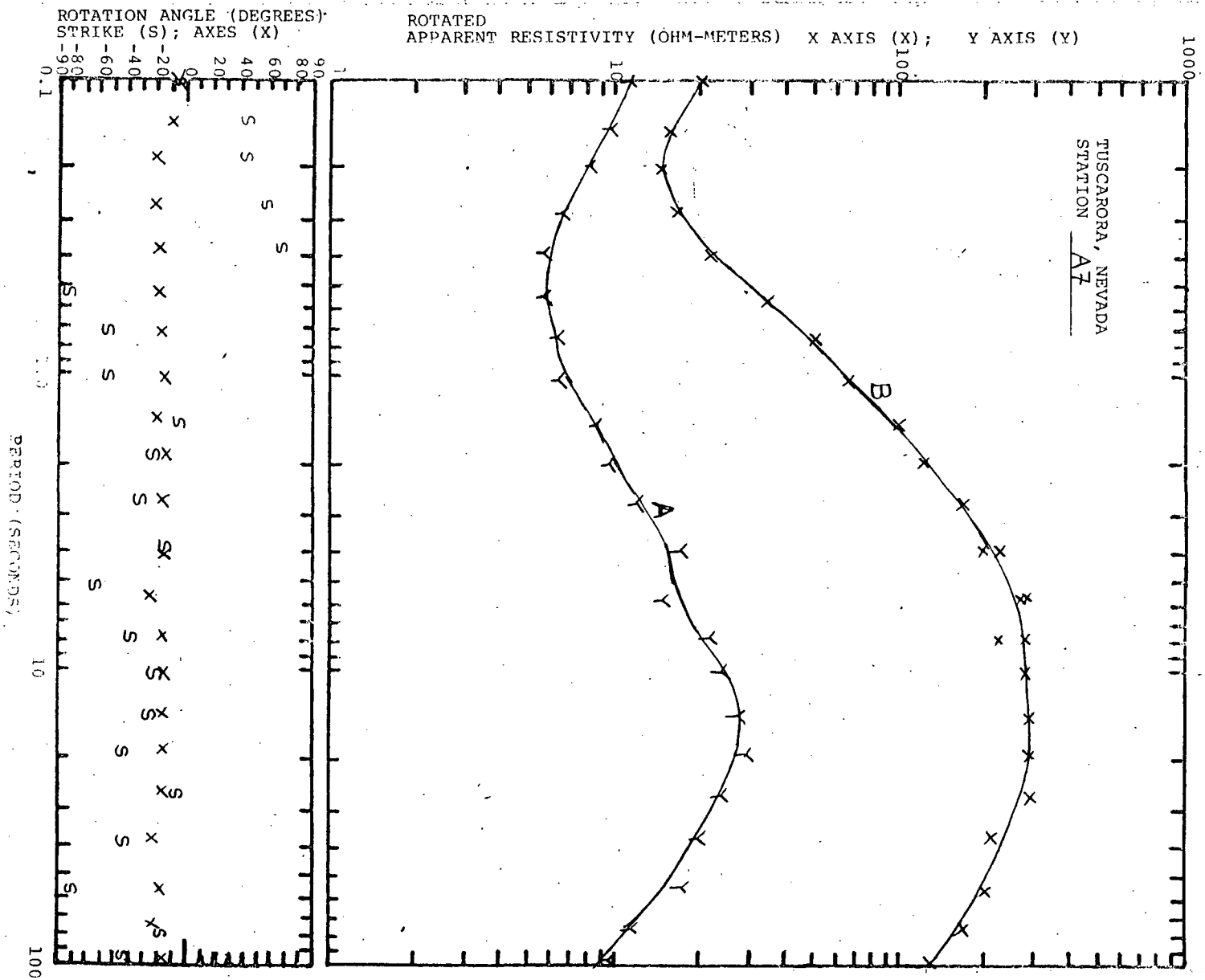
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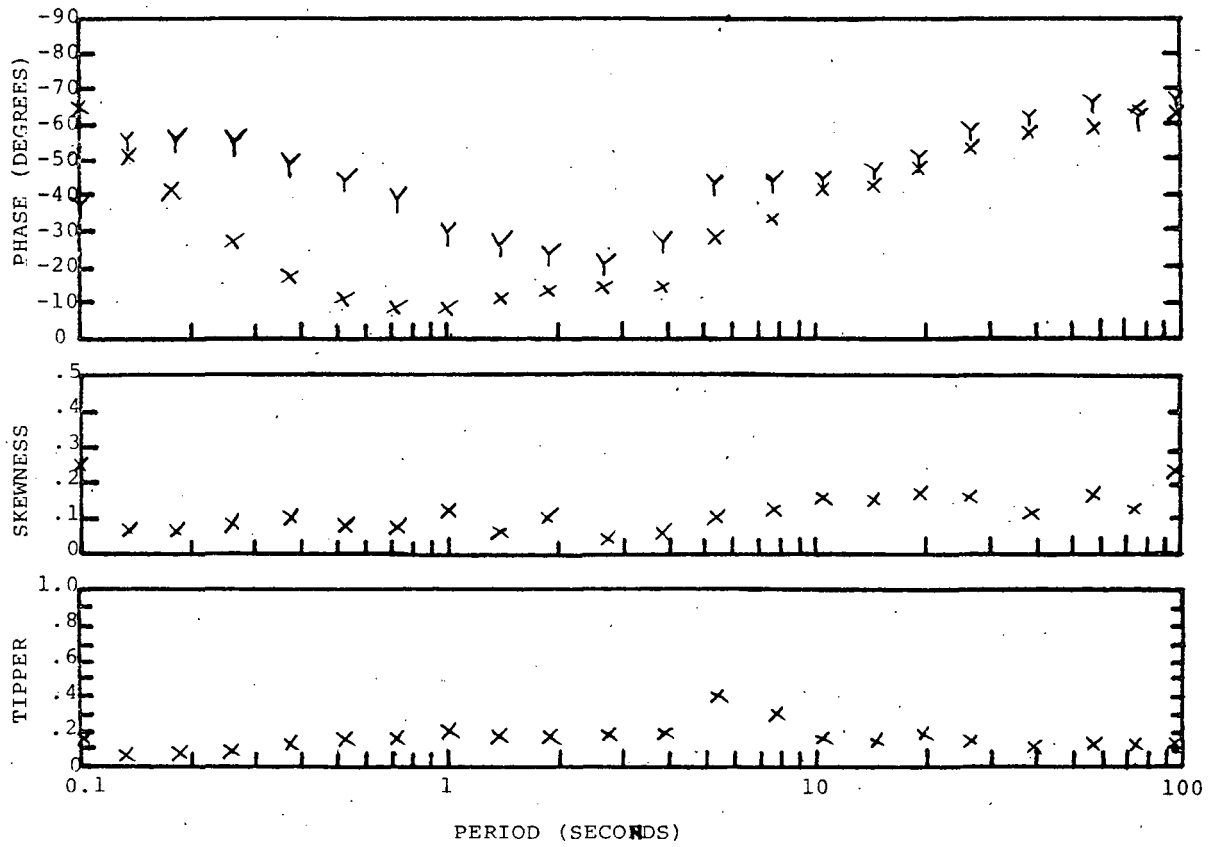
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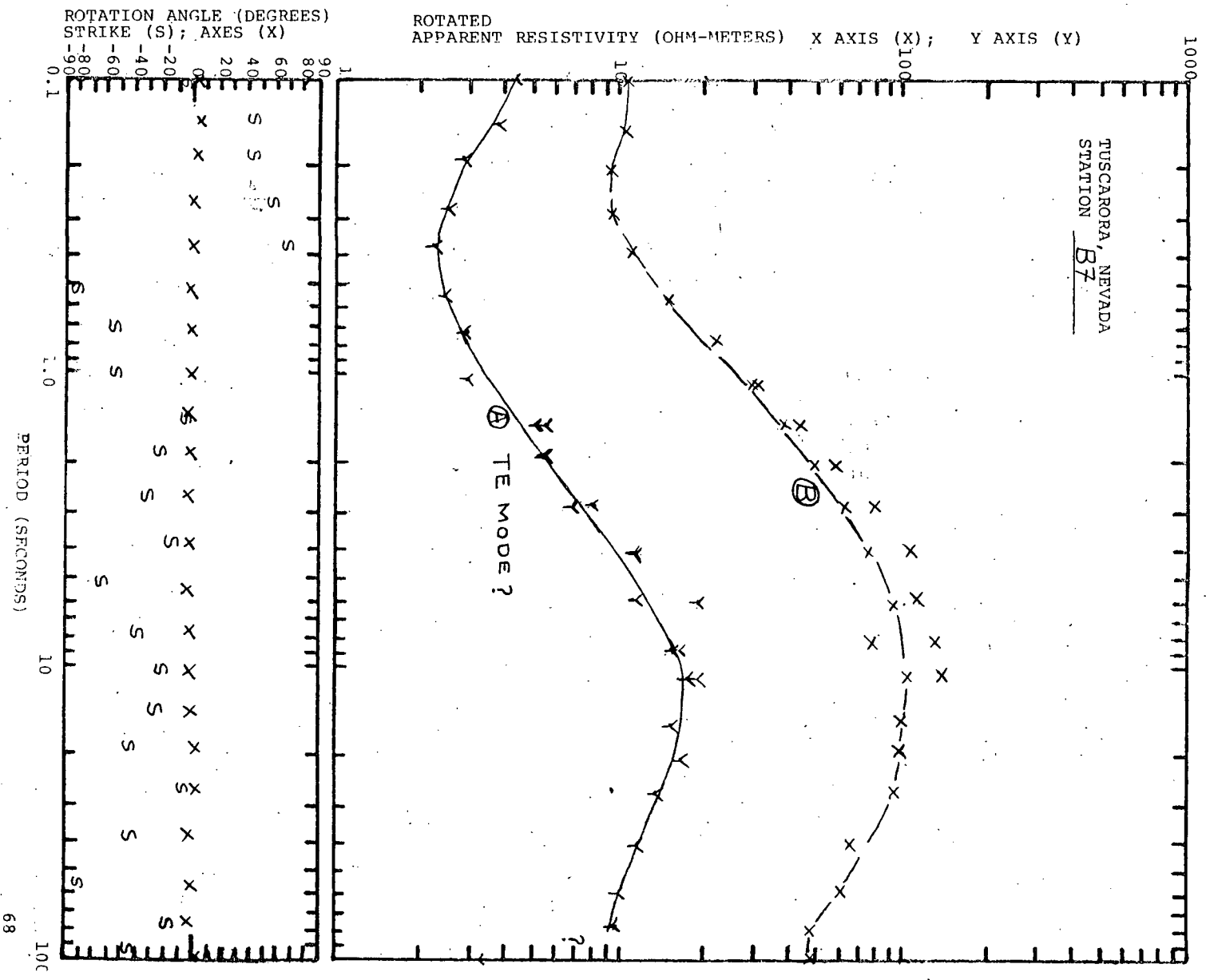




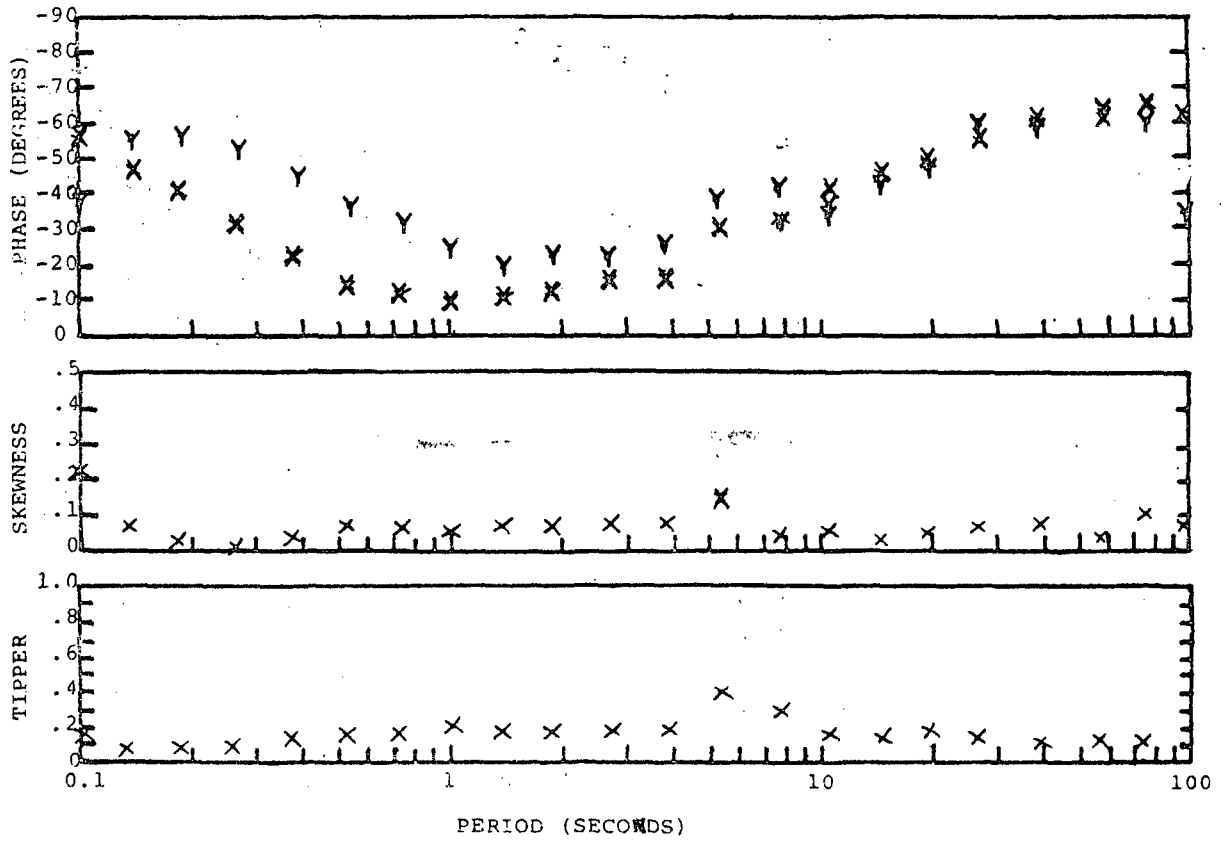


TUSCARORA, NEVADA  
STATION A7



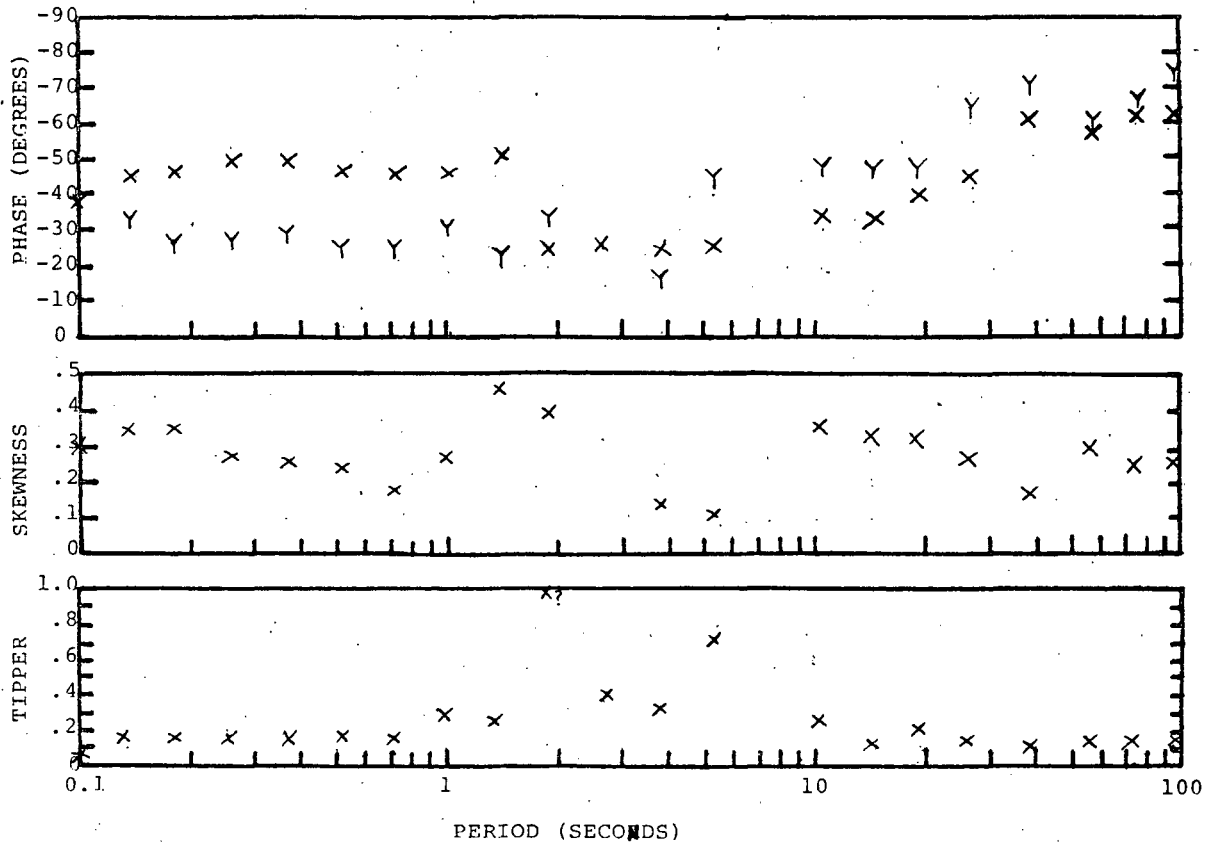


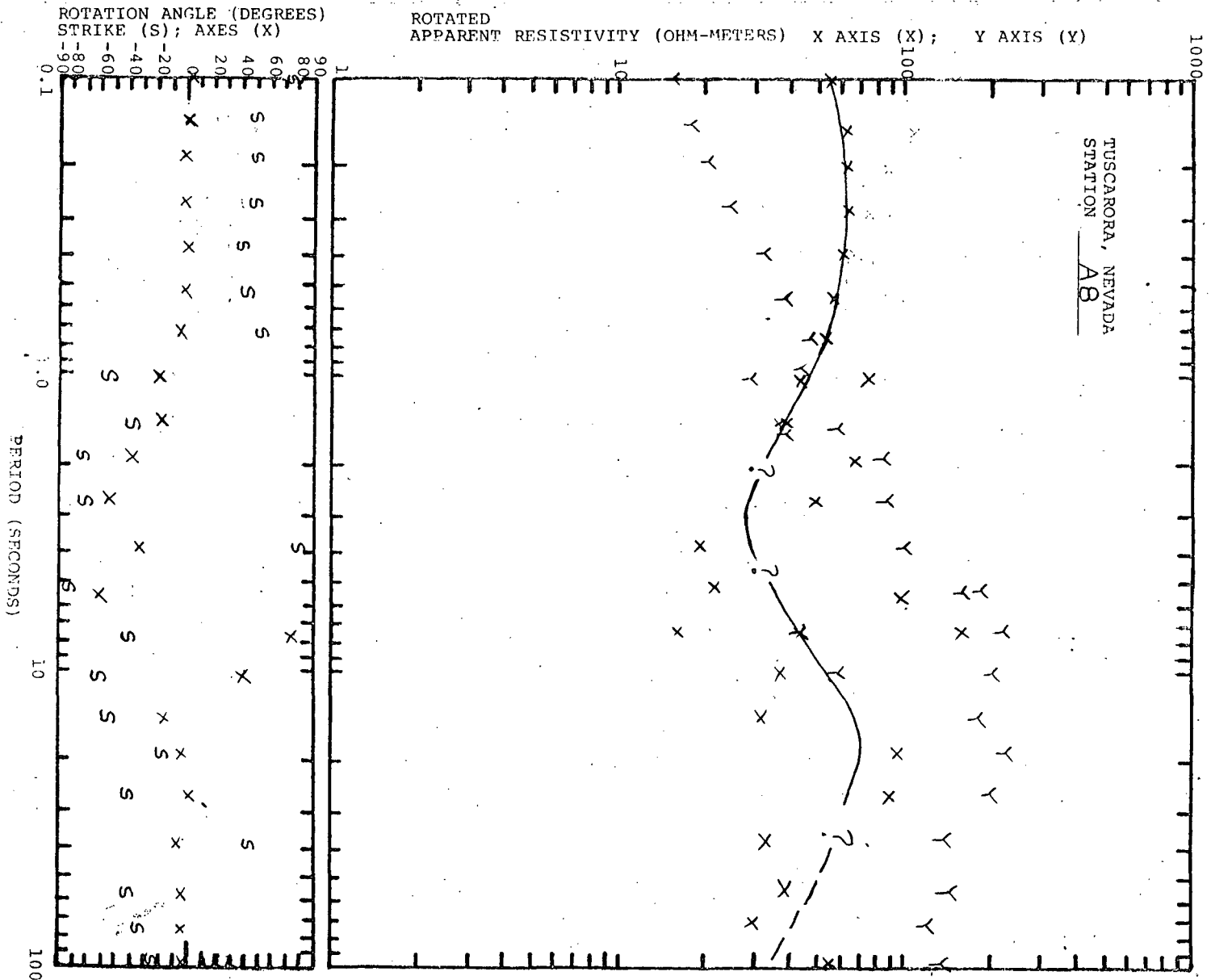
TUSCARORA, NEVADA  
STATION B7



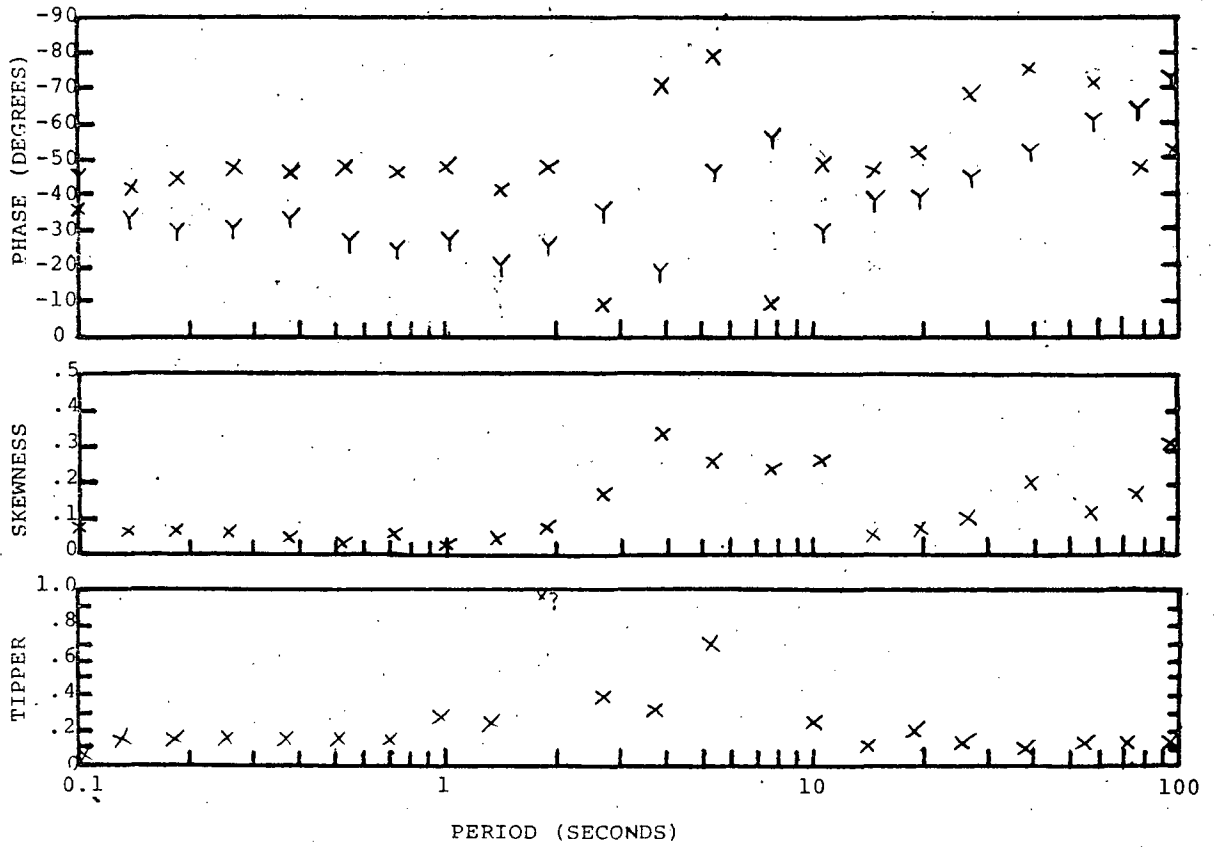


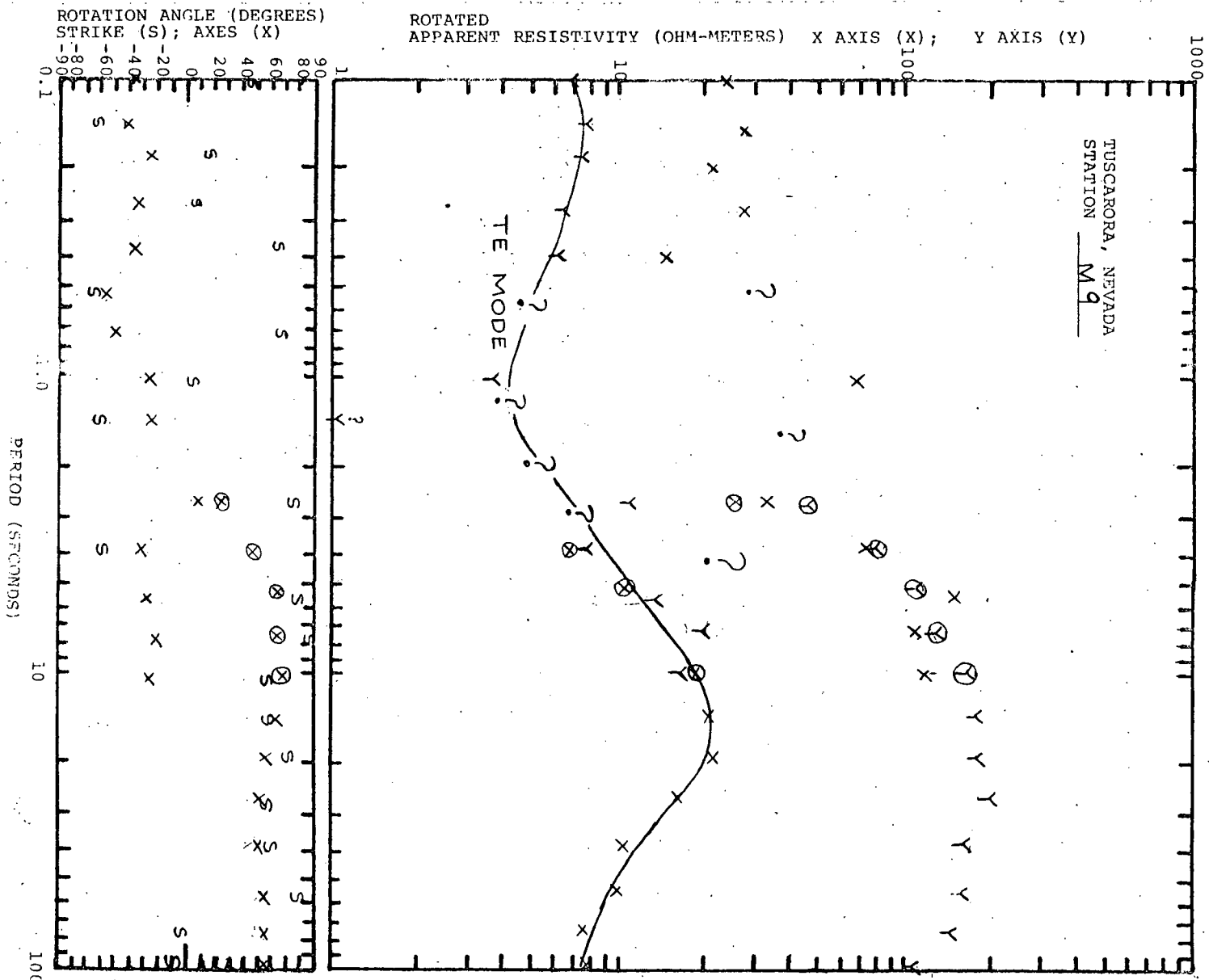
TUSCARORA, NEVADA  
STATION M8





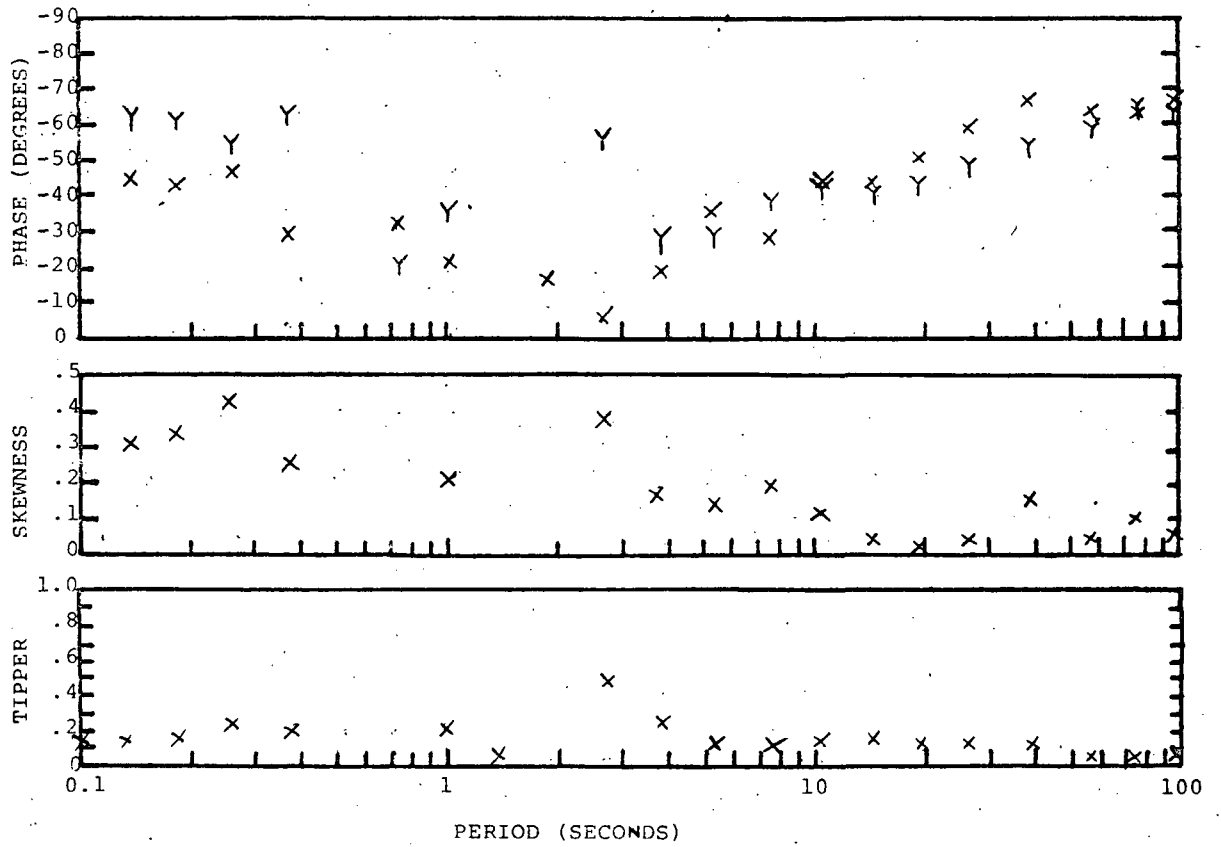
TUSCARORA, NEVADA  
STATION A8

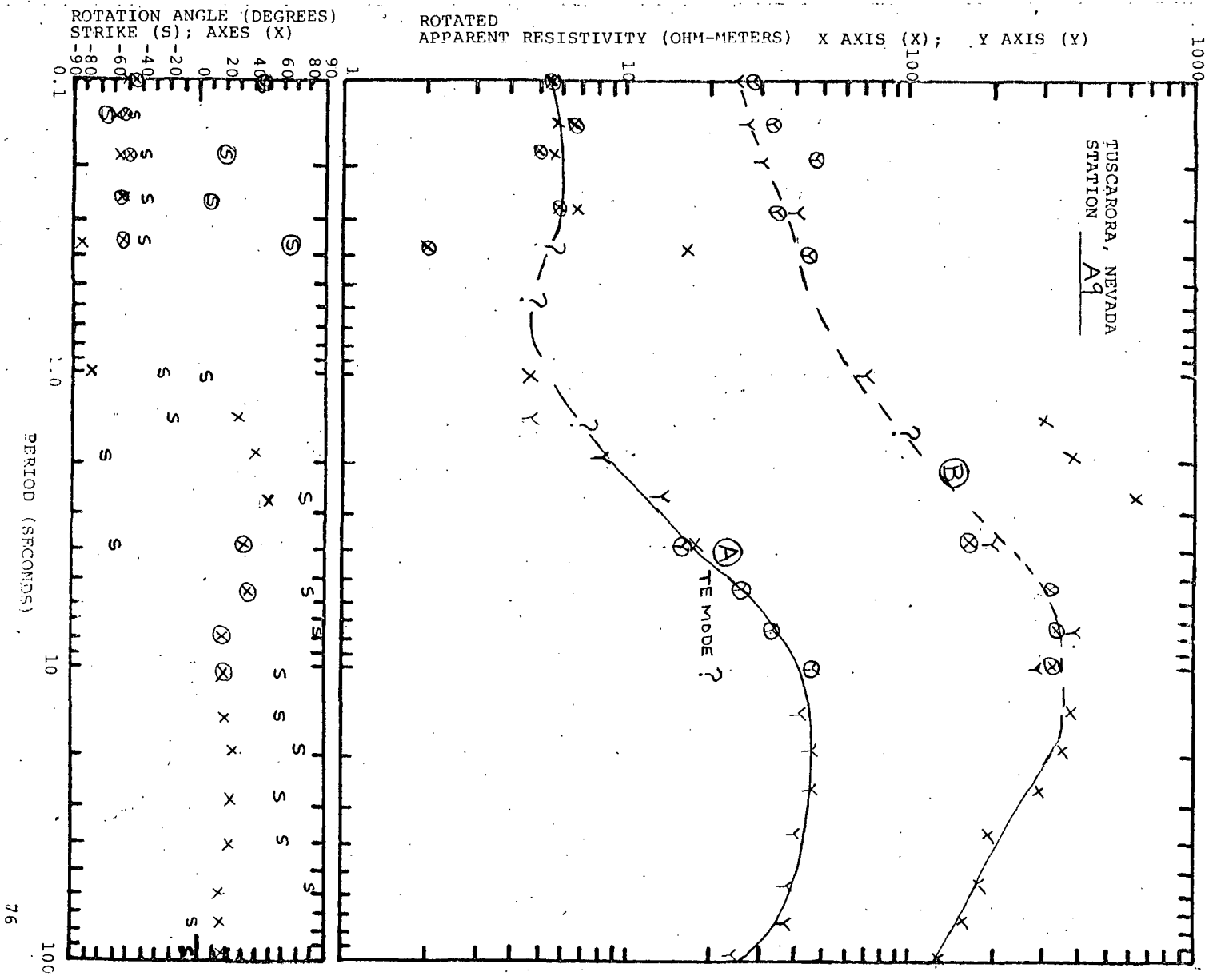




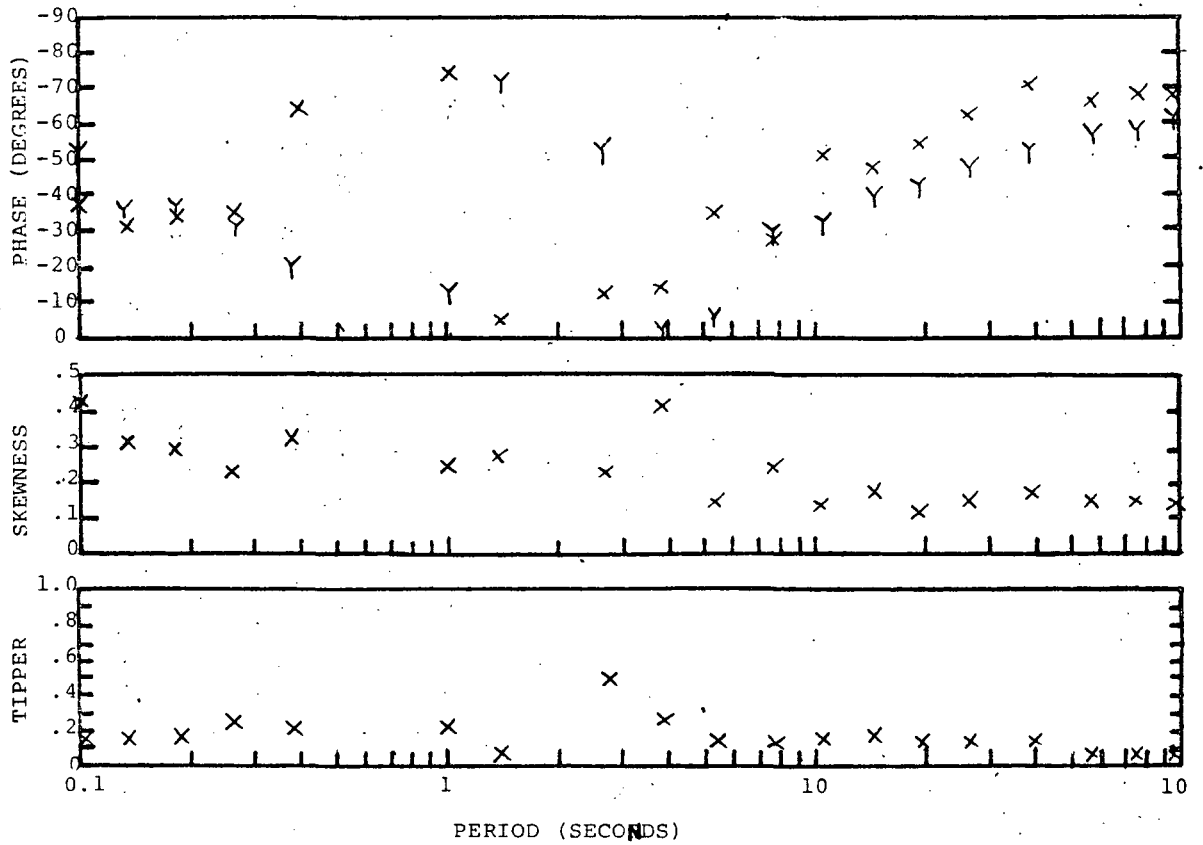


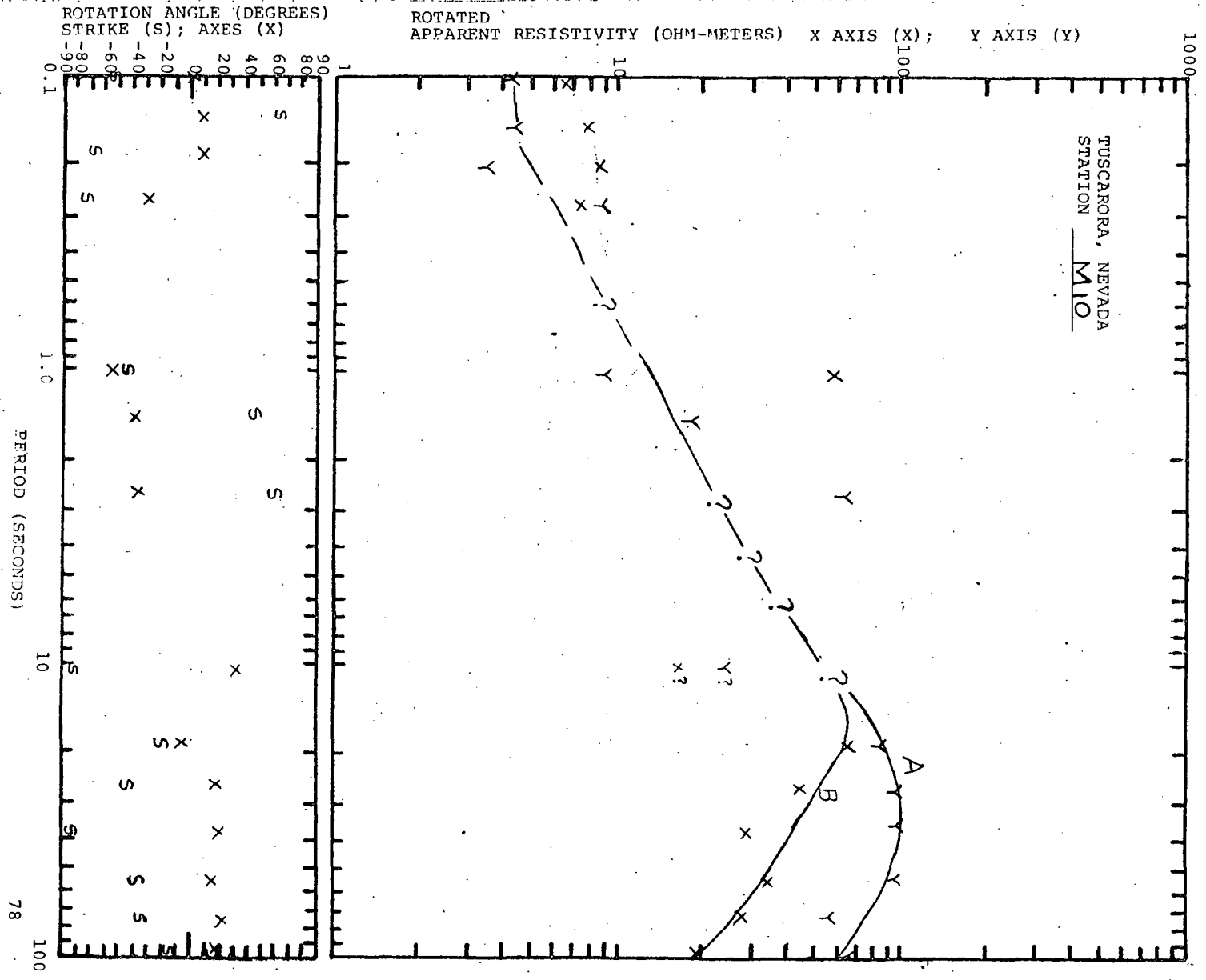
TUSCARORA, NEVADA  
STATION M9



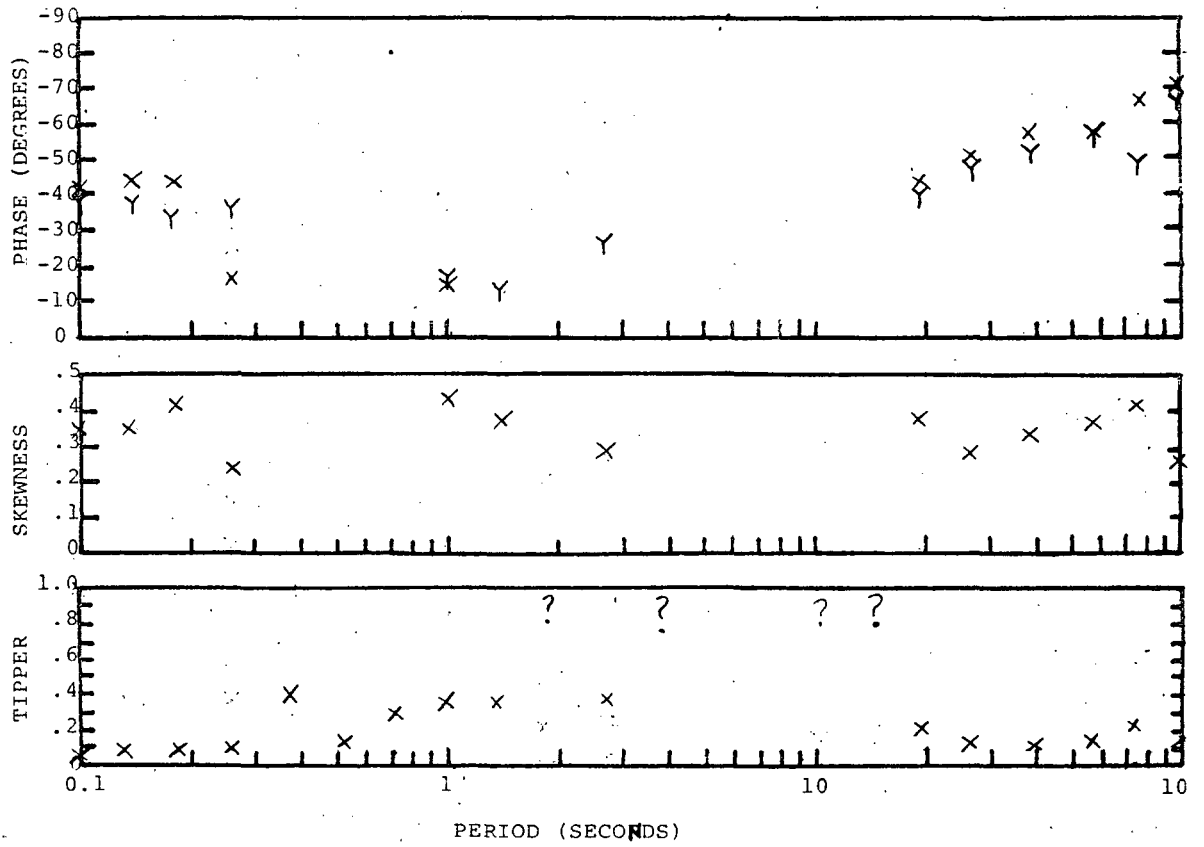


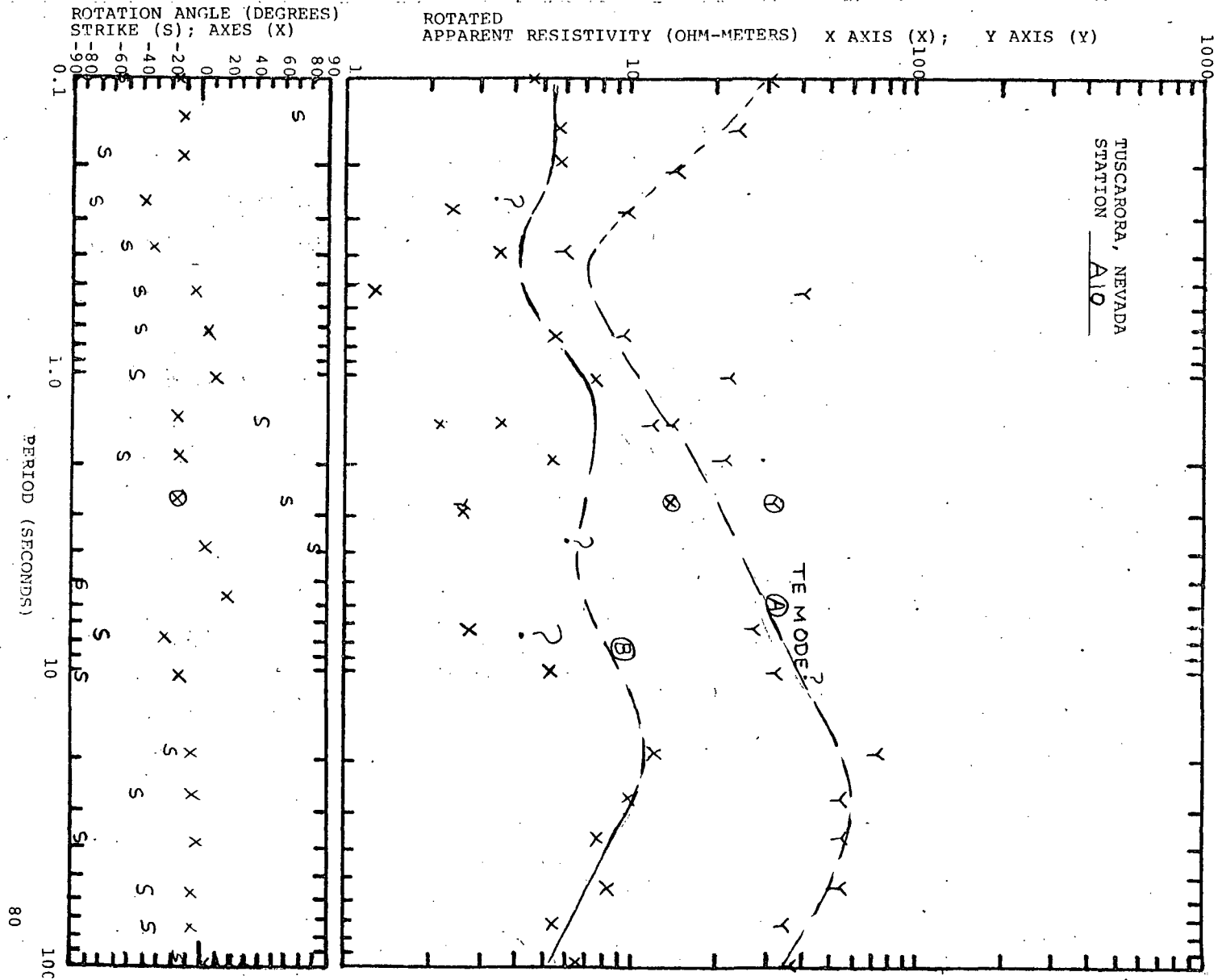
TUSCARORA, NEVADA  
STATION A9



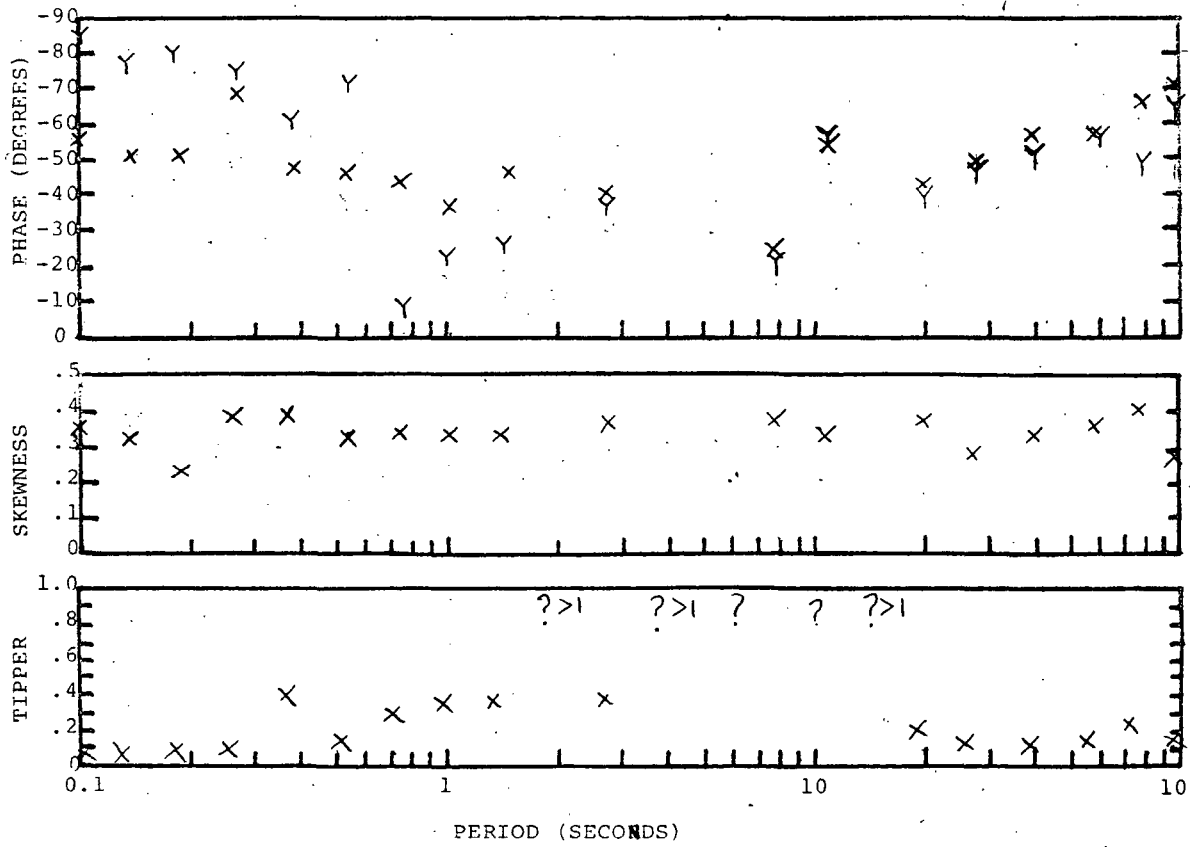


TUSCARORA, NEVADA  
STATION M10

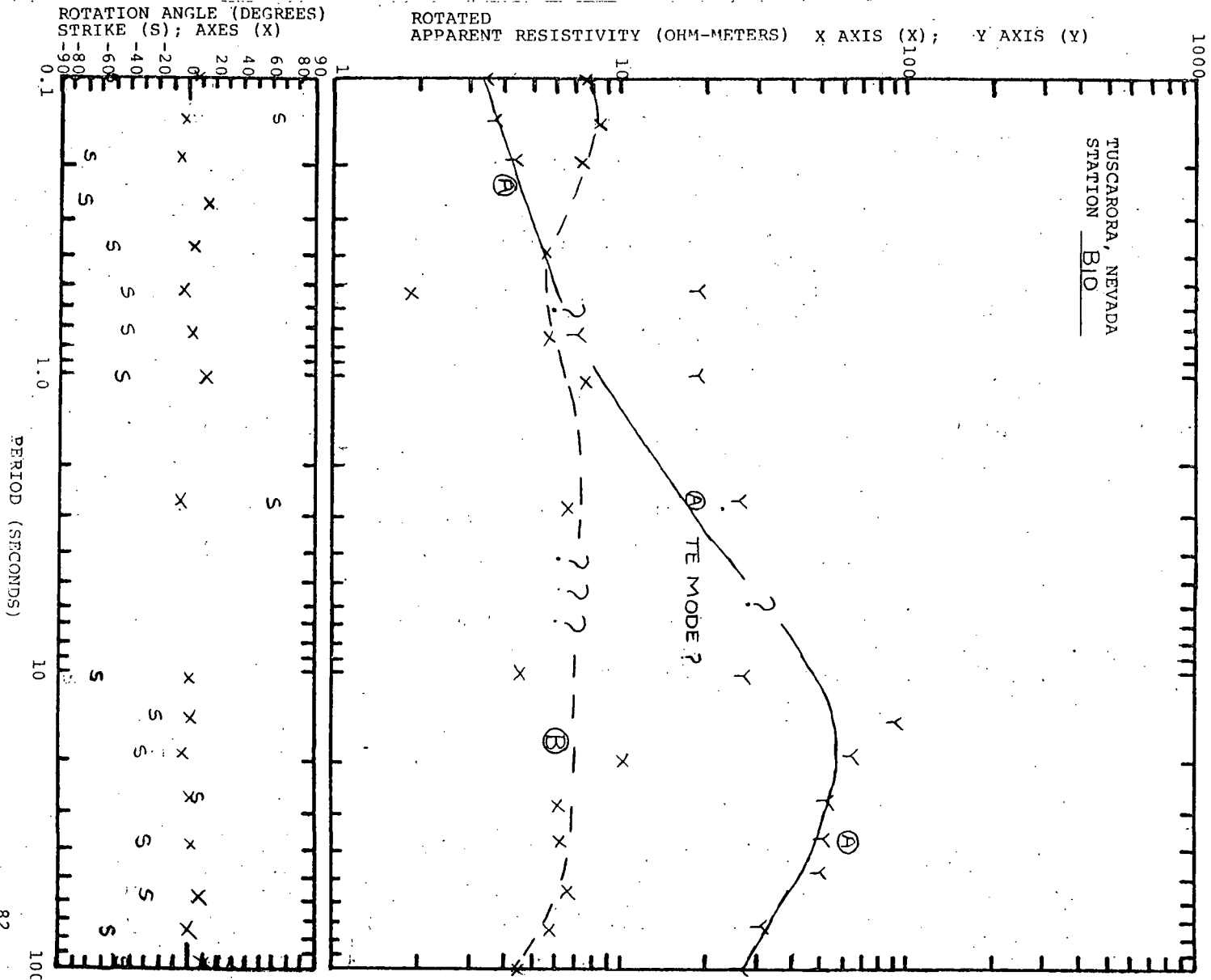




TUSCARORA, NEVADA  
 STATION A10

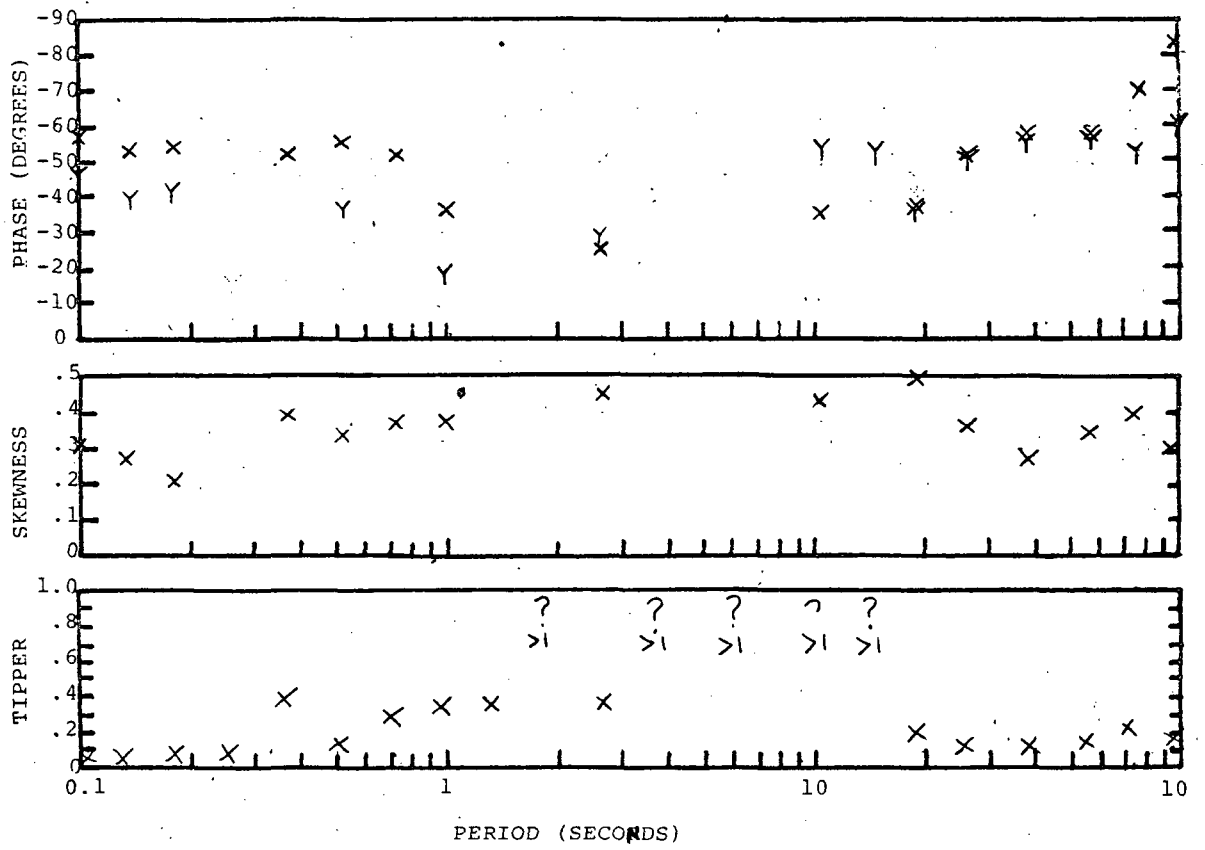


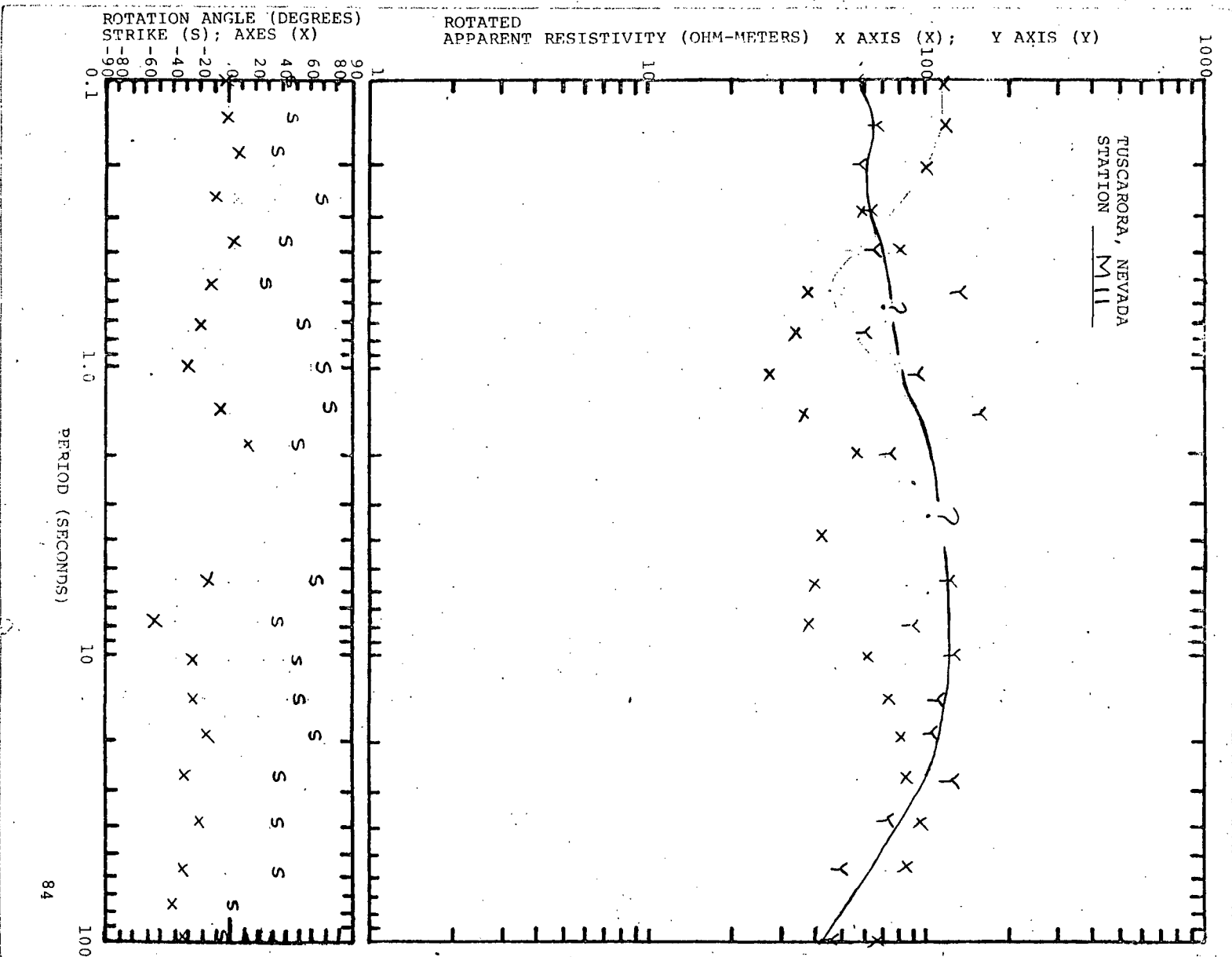
TUSCARORA, NEVADA  
STATION B10



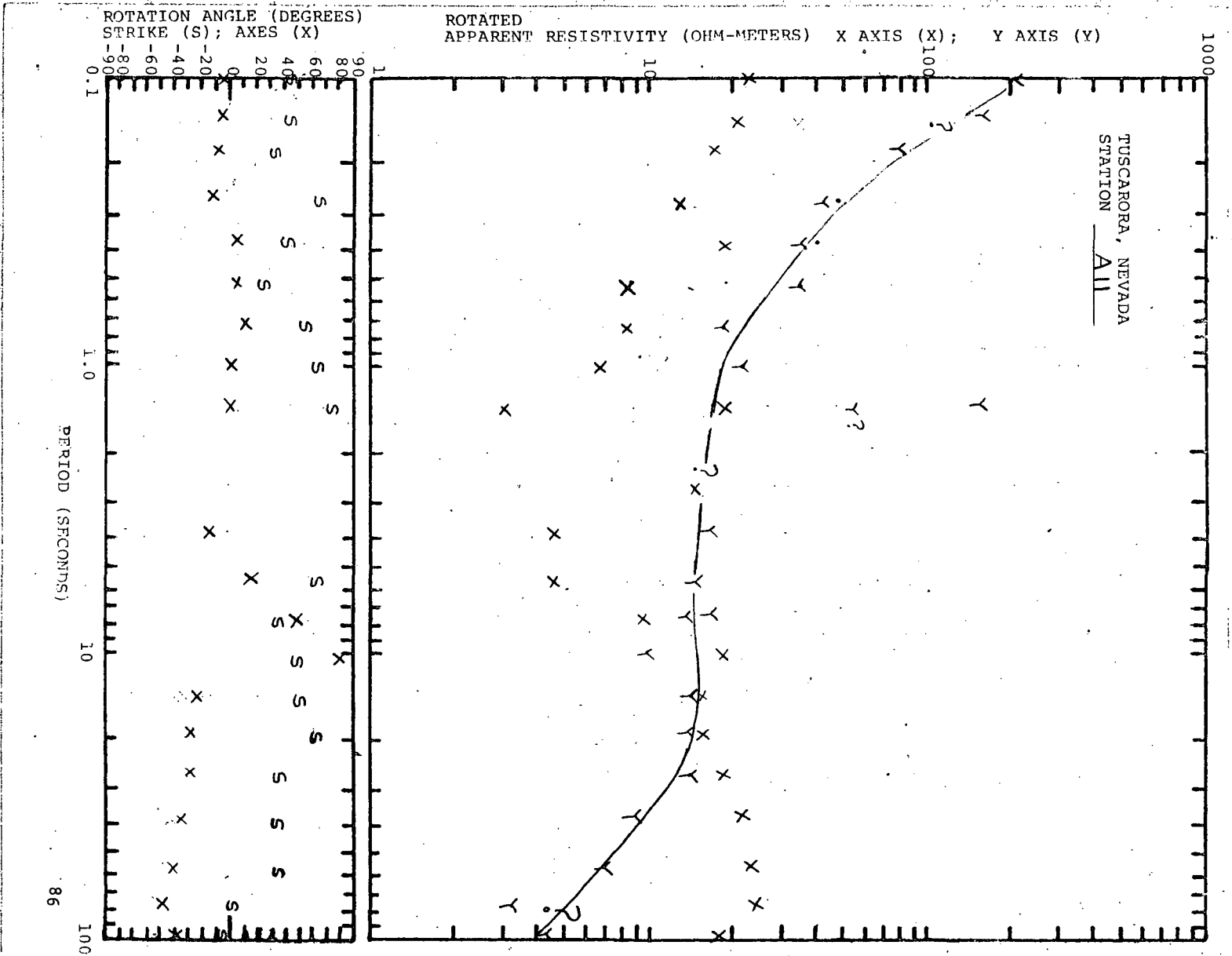


TUSCARORA, NEVADA  
 STATION B10

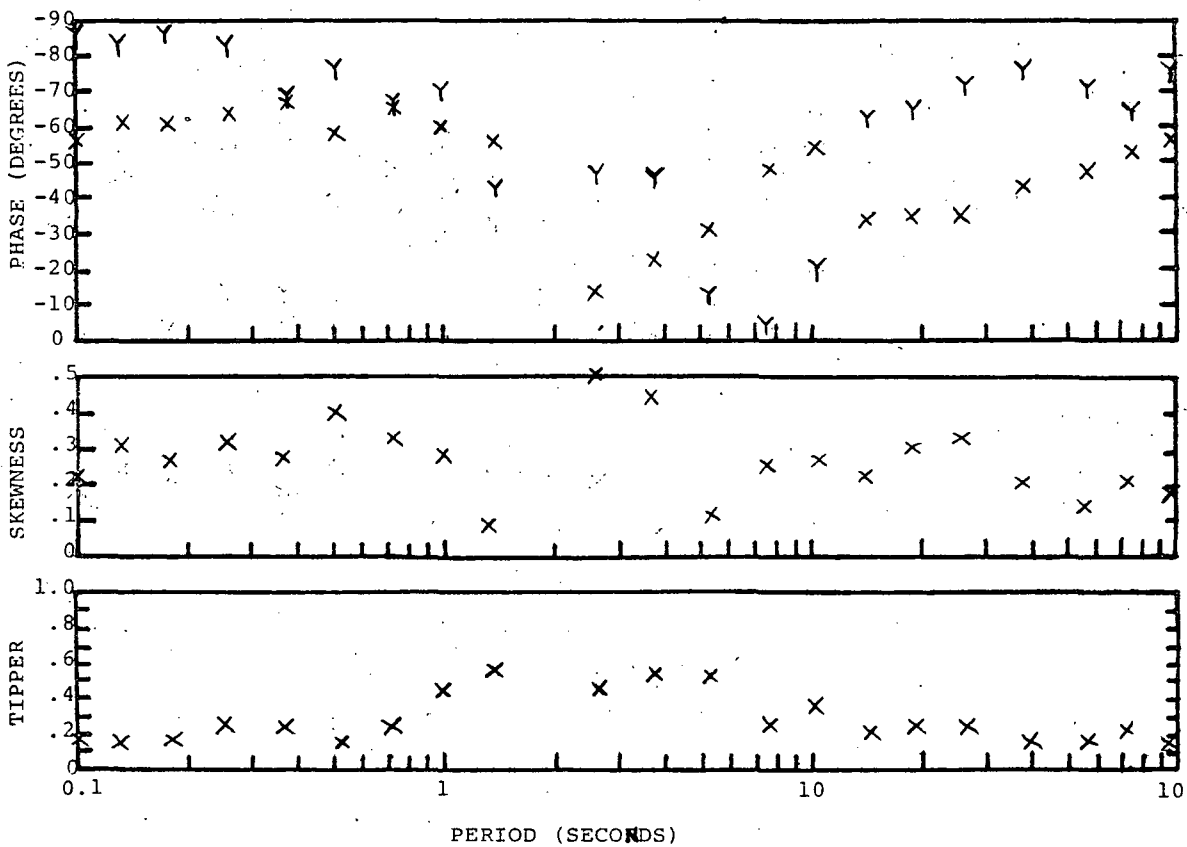


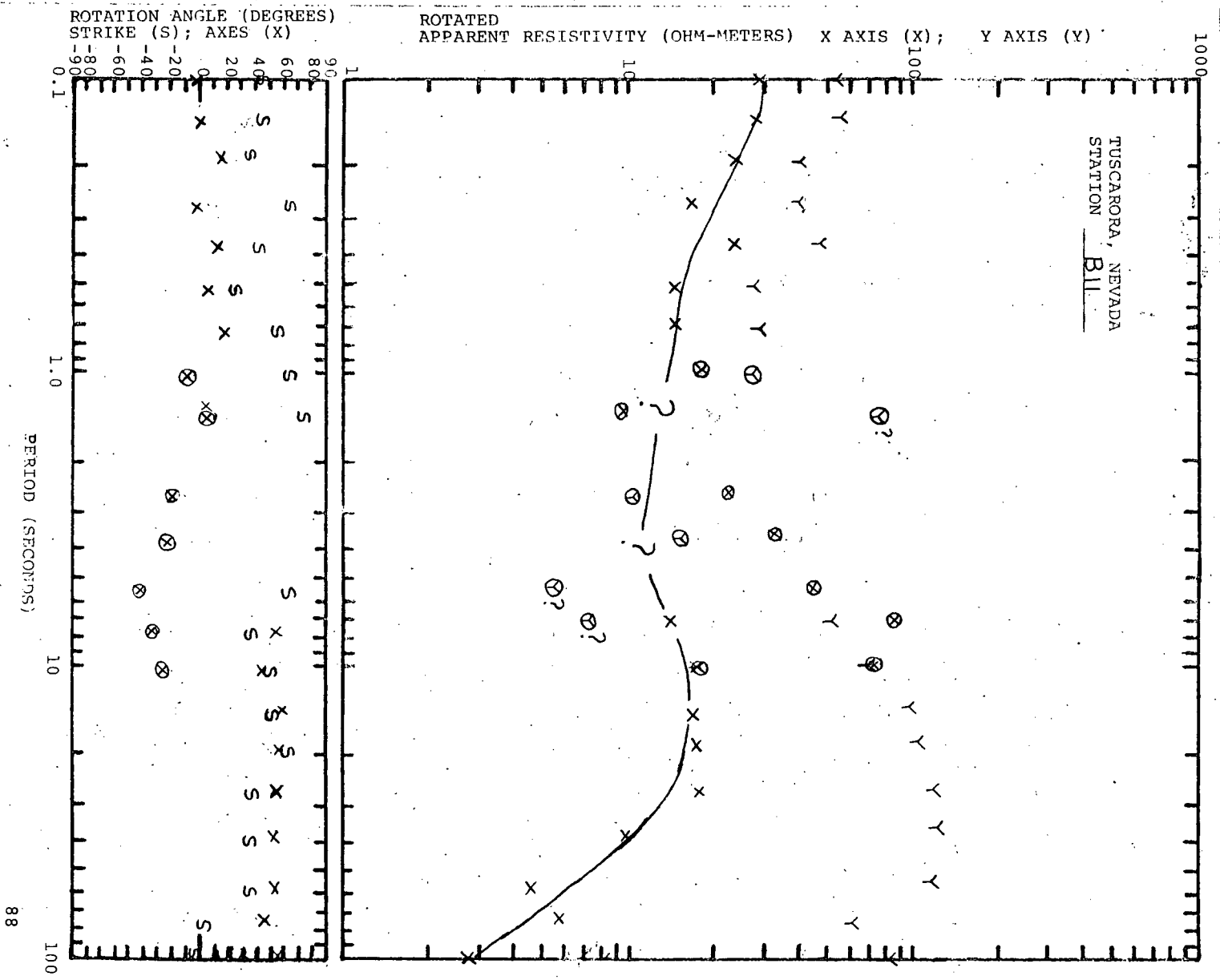






TUSCARORA, NEVADA  
STATION AlI





TUSCARORA, NEVADA  
 STATION B11

