

6102210

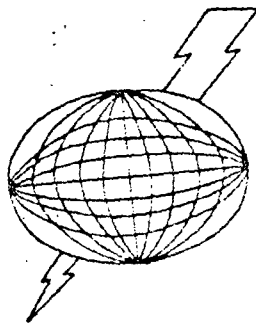
MAGNETOTELLURIC
DATA

CORRECTIONS
APRIL 1980

TUSCARORA PROSPECT
NEVADA

FOR

AMAX EXPLORATION, INC



TERRAPHYSICS
815 SOUTH TENTH STREET
RICHMOND, CALIFORNIA 94804
(415) 234-8961

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.

TABLE OF CONTENTS

Page

plot of one dimensional inversion of TE Mode

STATION

M1	1
A1	2
B1	3
M2	4
A2	5
B2	6
M3	7
A3	8
B3	9
M4	10A
A4	10
B4	11
M5	12
A5	13
B5	14
M6	15
A6	16
M7	17
A7	18
B7	19
M8	20
A8	21
M9	22
A9	23
M10	24
A10	25
B10	26
M11	27
A11	28
B11	29

TABLE OF CONTENTS (Continued)

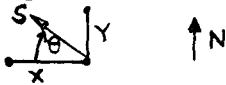
Plots of data: apparent resistivity, rotation angle, tipper strike,
phase, skewness and tipper vs period

<u>STATION</u>	Page
M1	30
A1	32
B1	34
M2	36
A2	38
B2	40
M3	42
A3	44
B3	46
M4	48
A4	50
B4	52
M5	54
A5	56
B5	58
M6	60
A6	62
M7	64
A7	66
B7	68
M8	70
A8	72
M9	74
A9	76
M10	78
A10	80
B10	82
M11	84
A11	86
B11	88

SELECTION CRITERIA FOR MAGNETOTELLURIC DATA

Only those points are plotted for which the skewness ≤ 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.

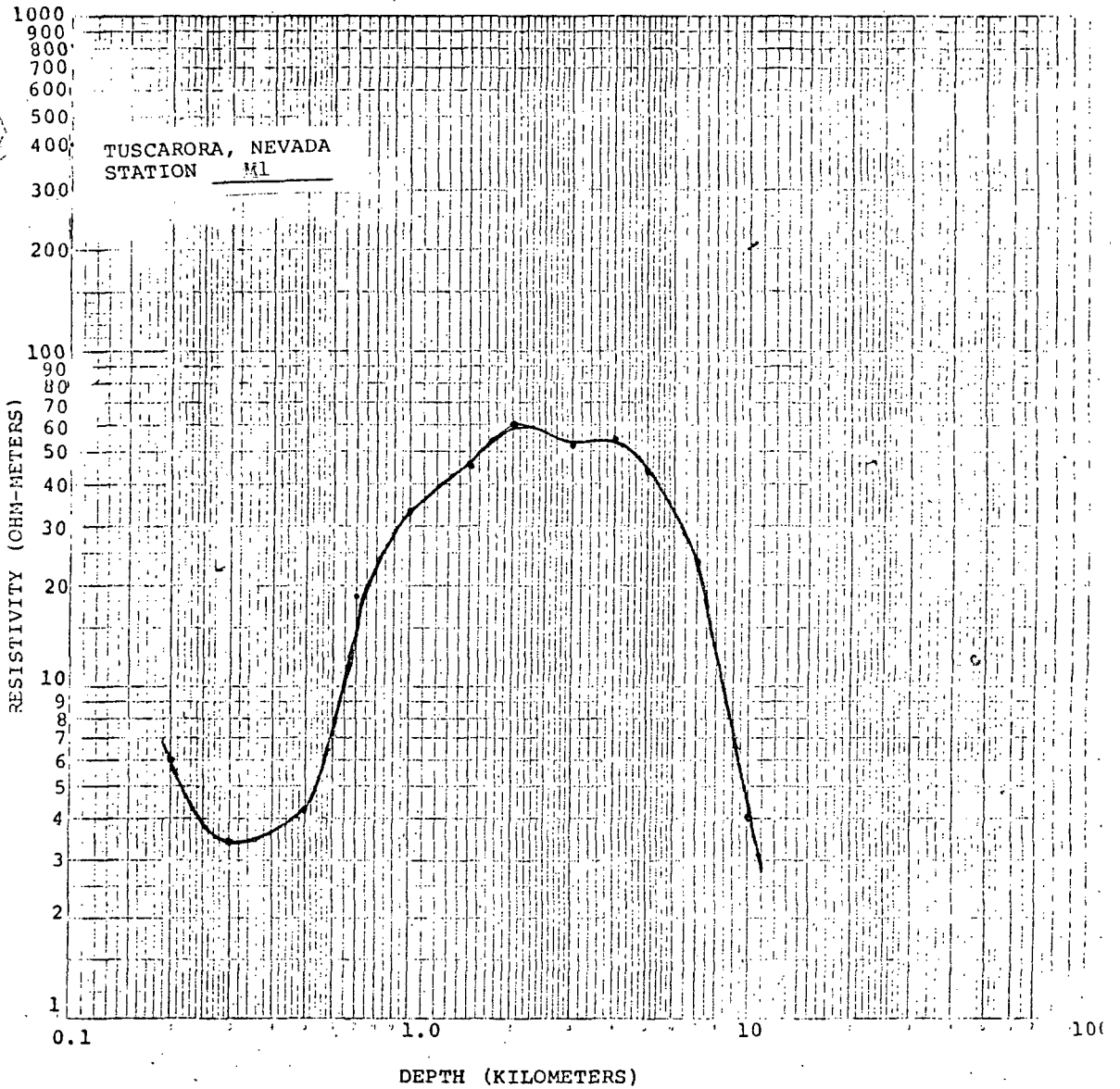


FIGURE 1 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

TE-MODE

resistive middle layer

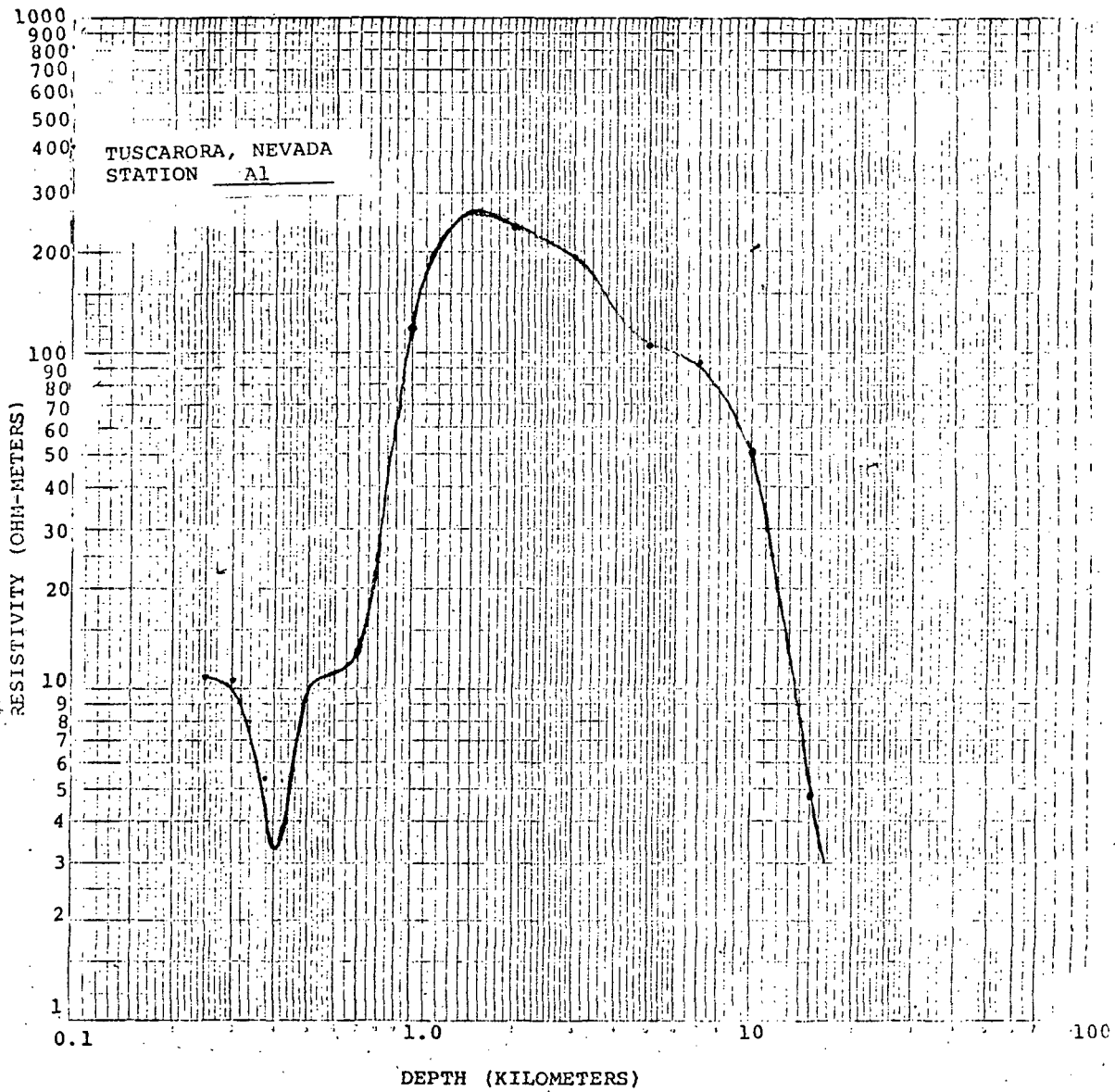


FIGURE 2 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

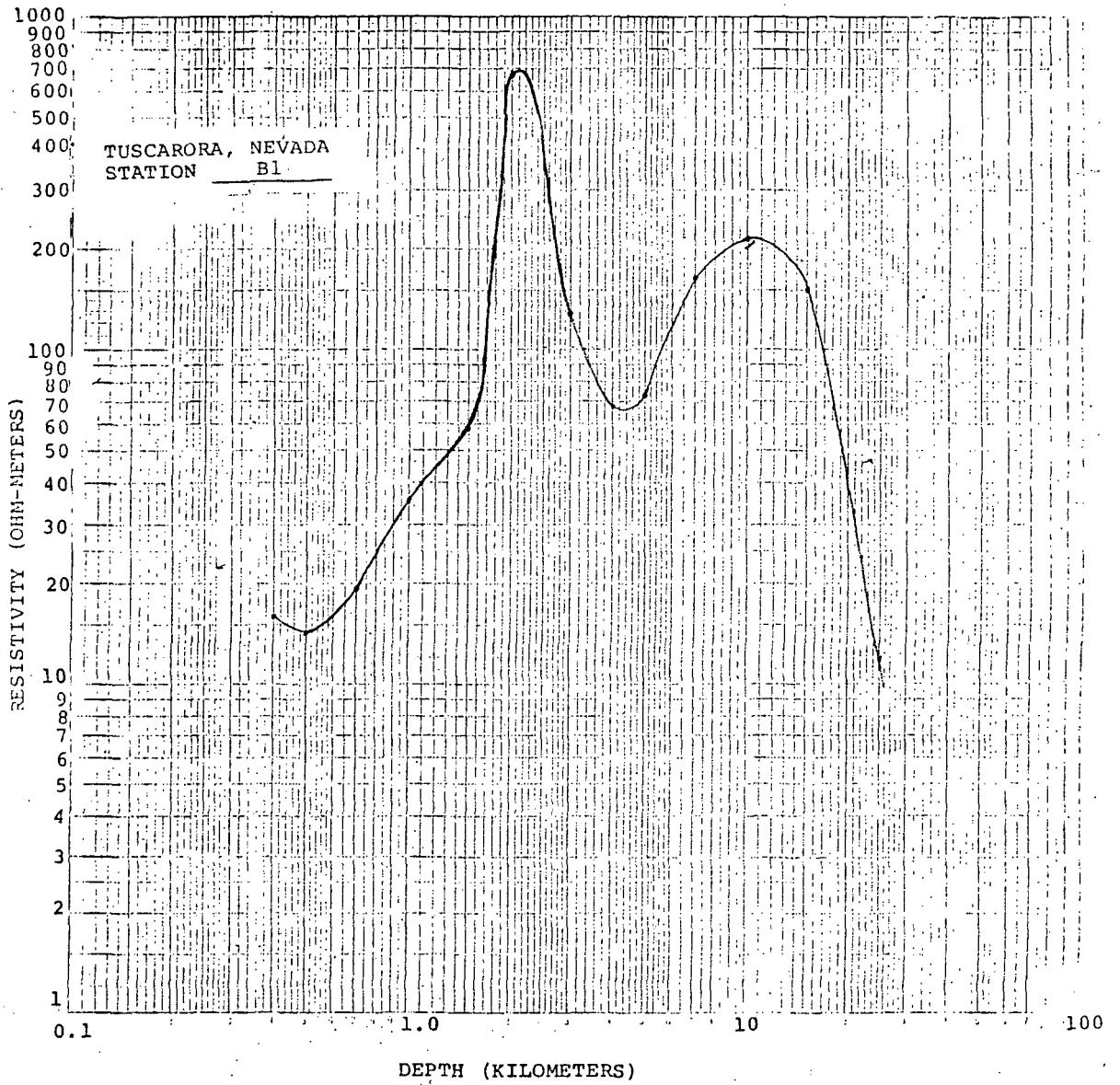


FIGURE 3 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

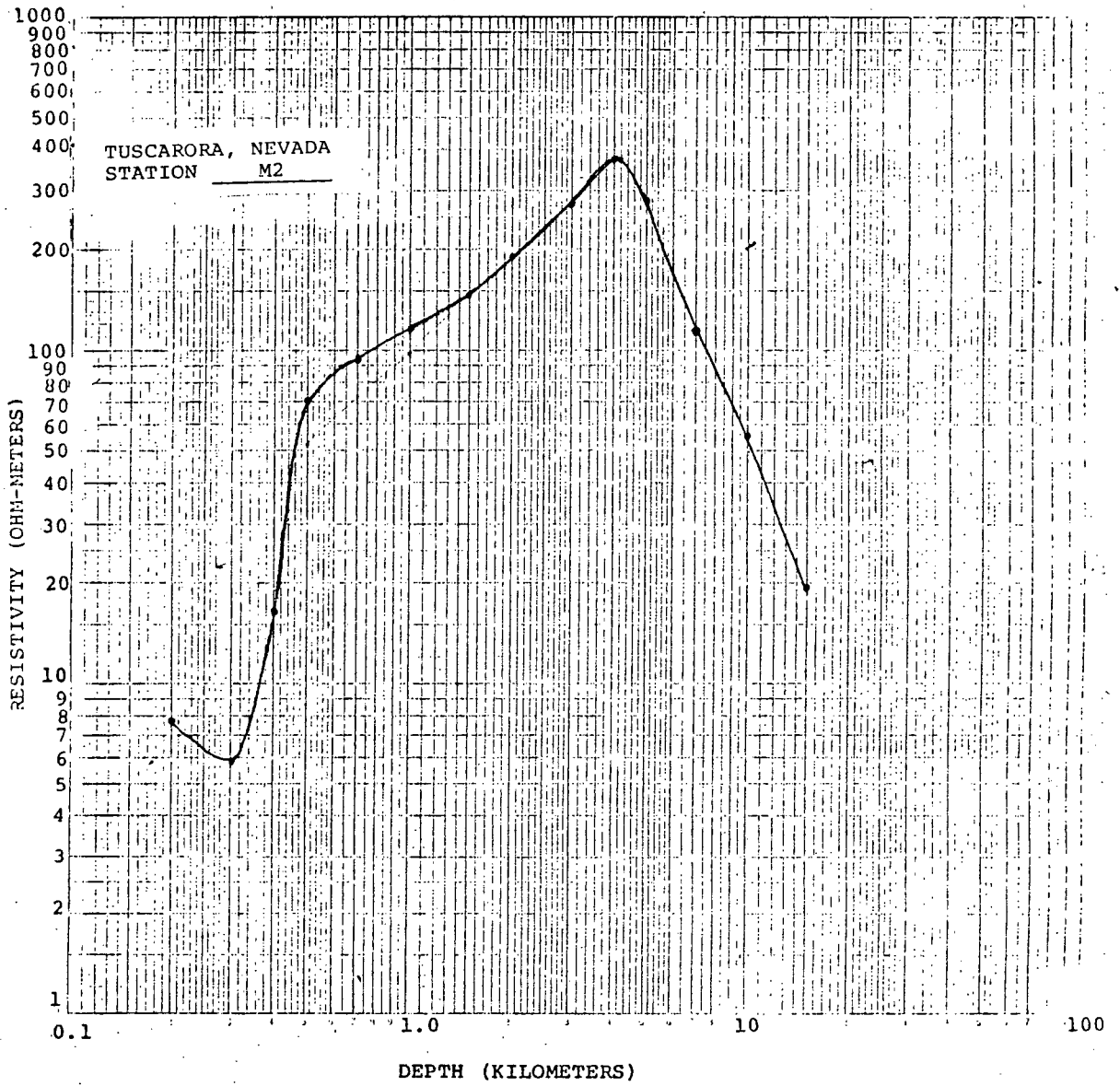


FIGURE 4 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

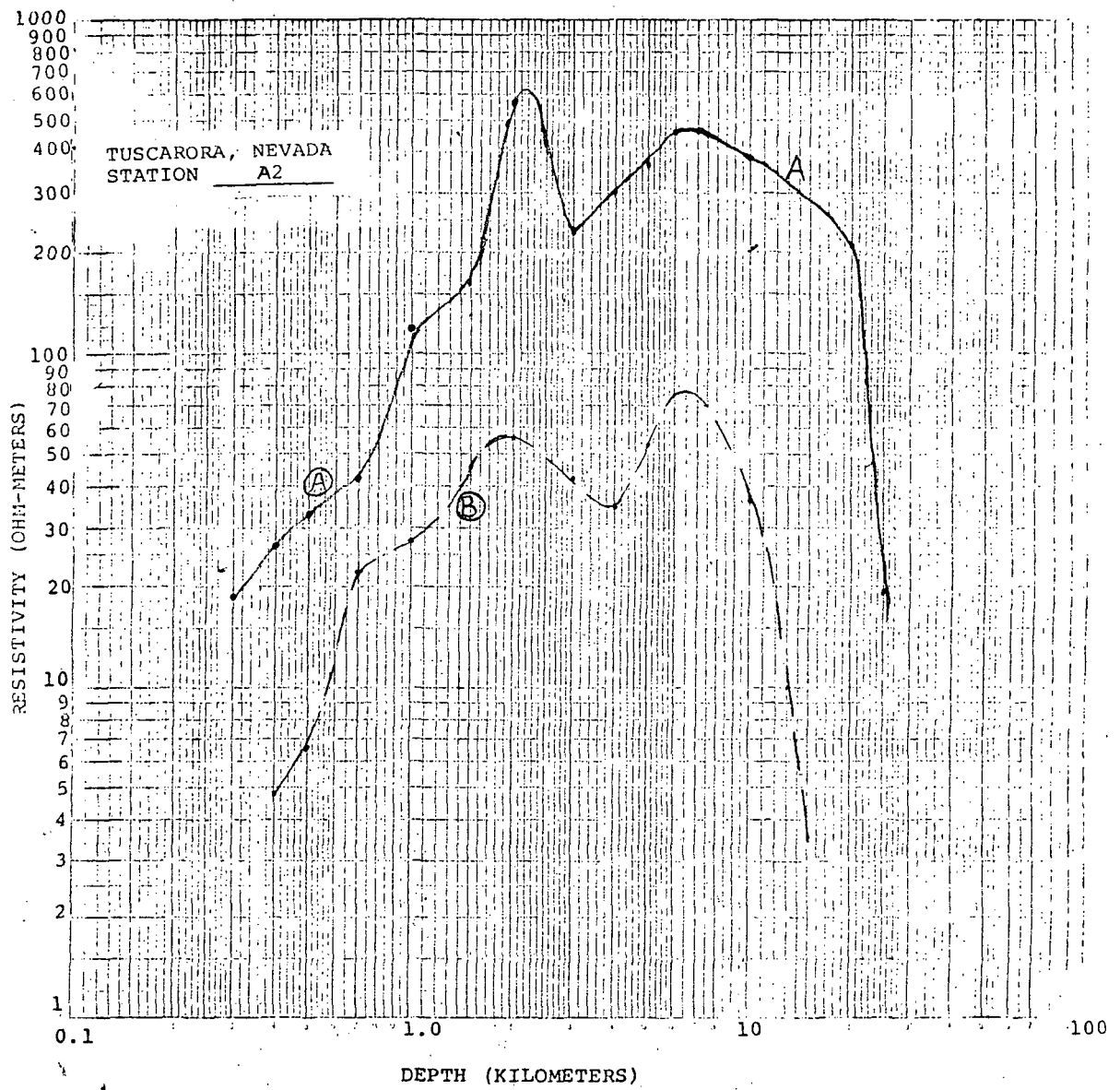


FIGURE 5 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

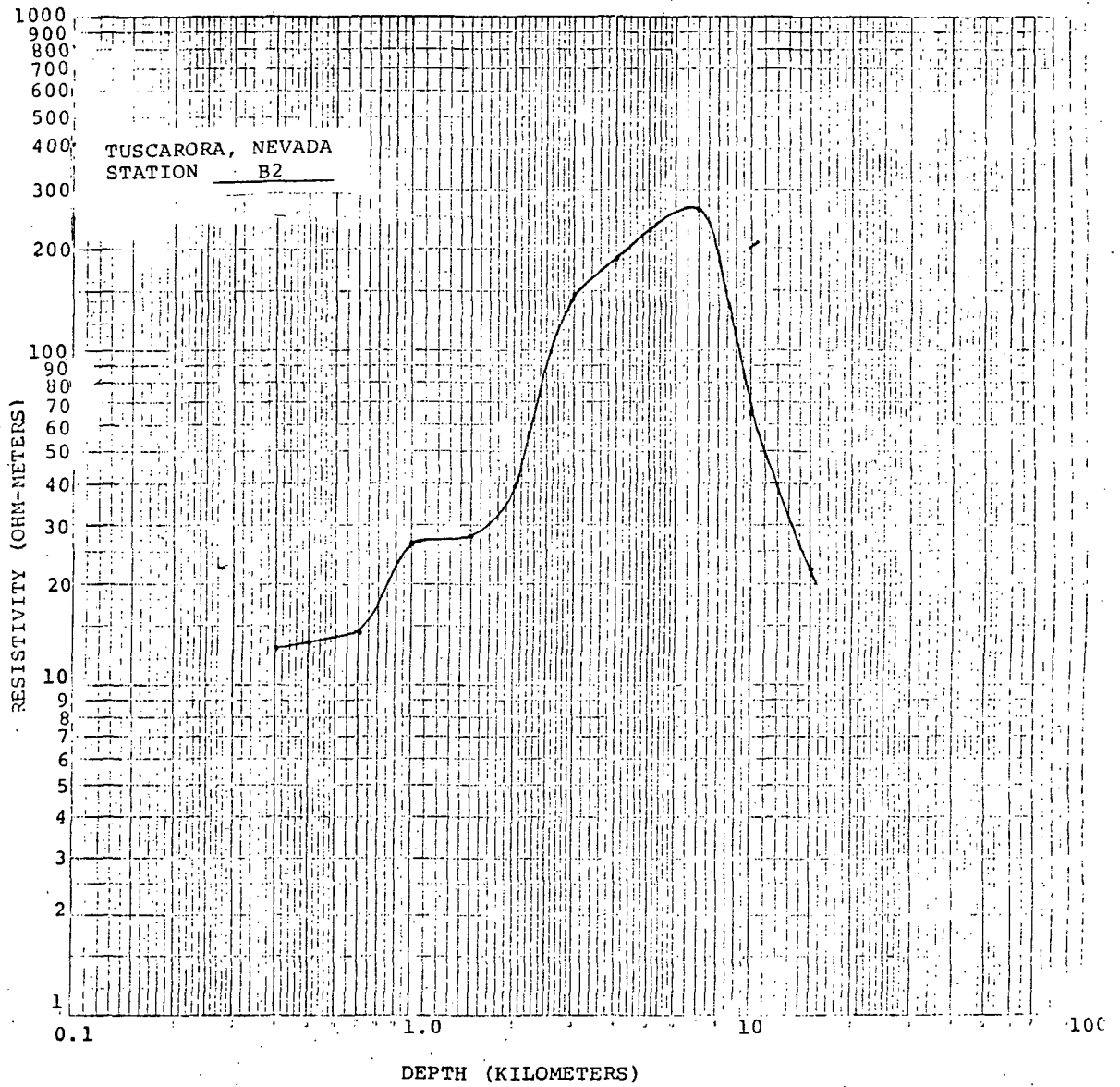


FIGURE 6 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

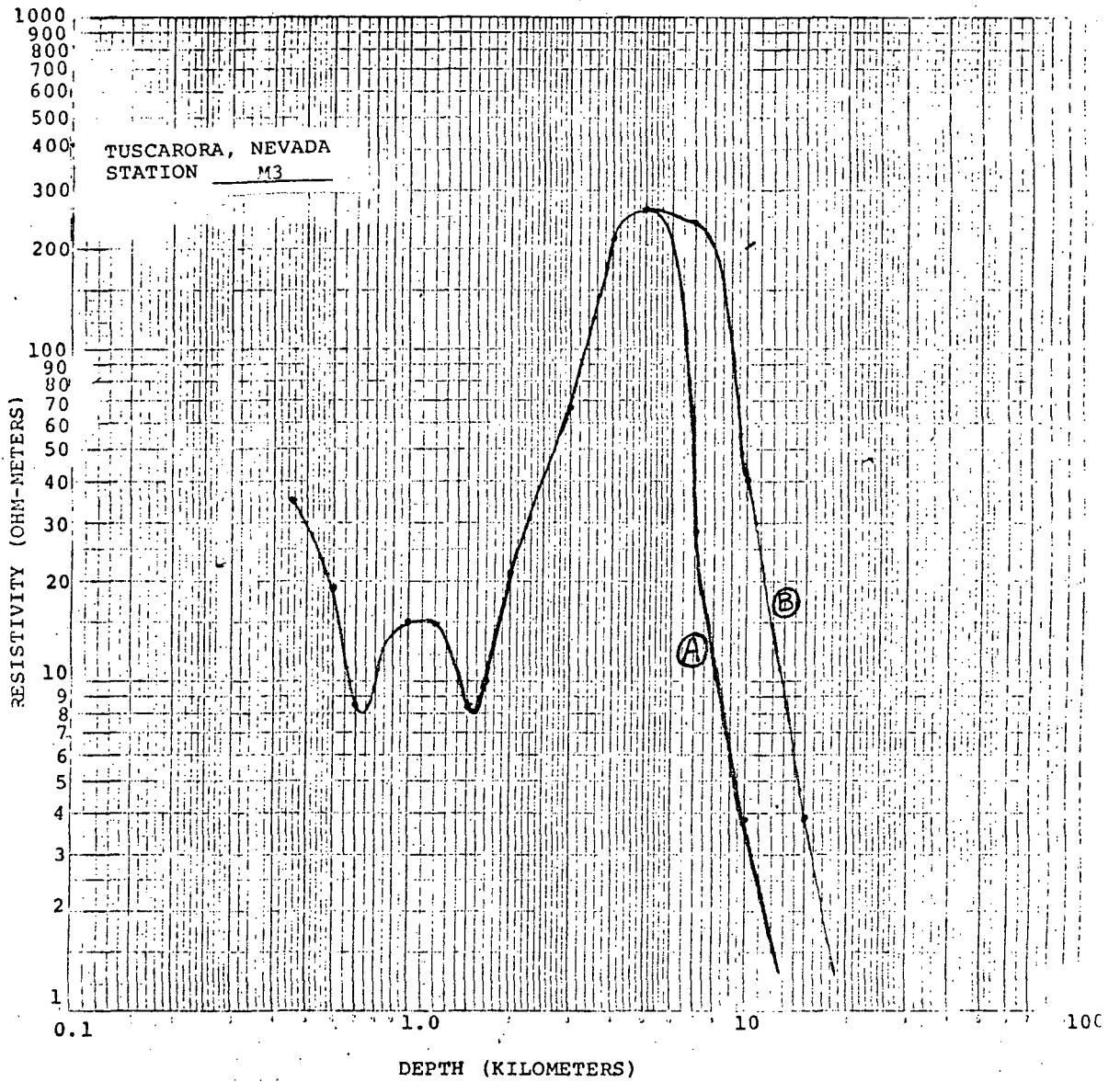


FIGURE 7 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

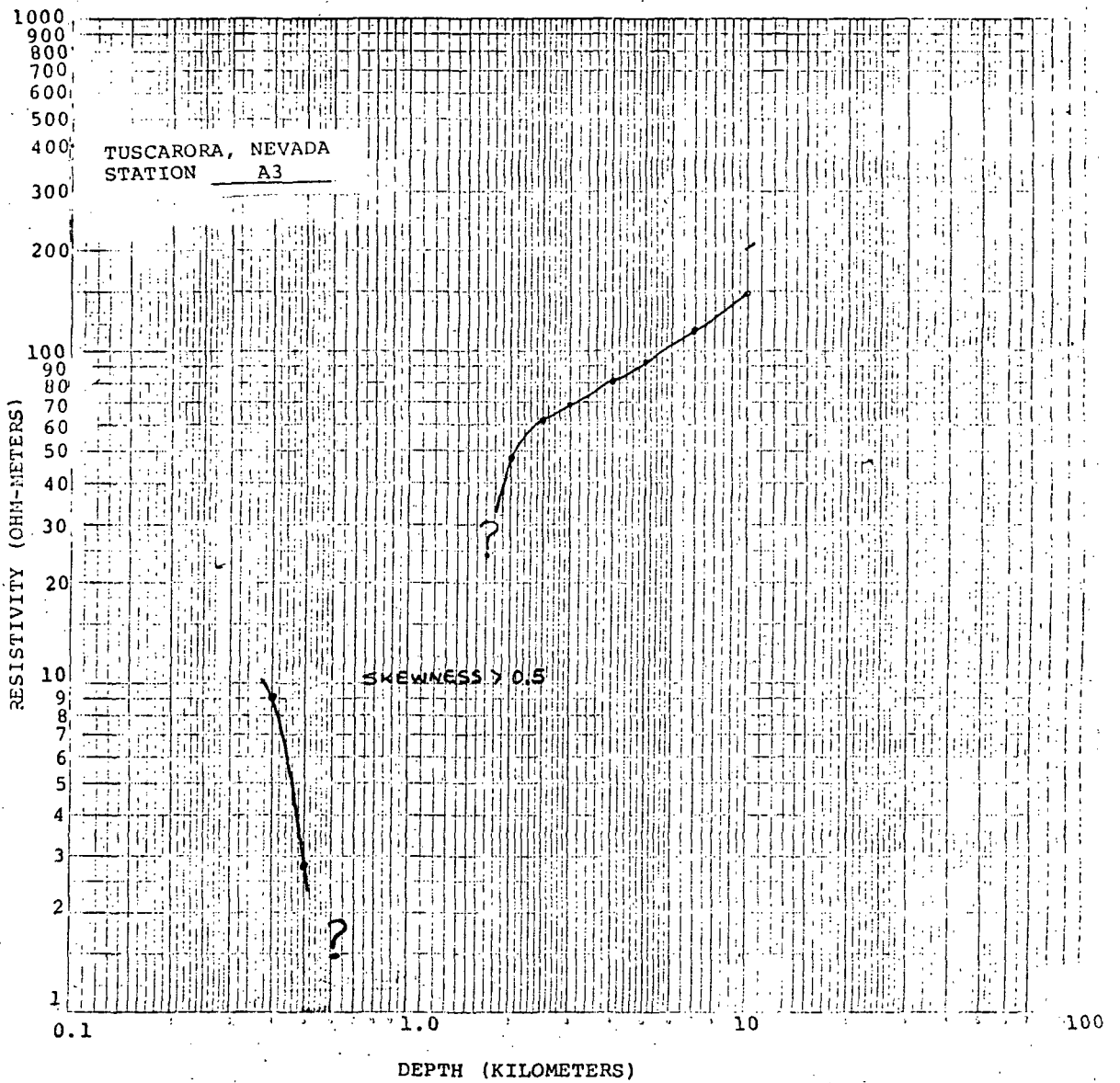


FIGURE 8 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

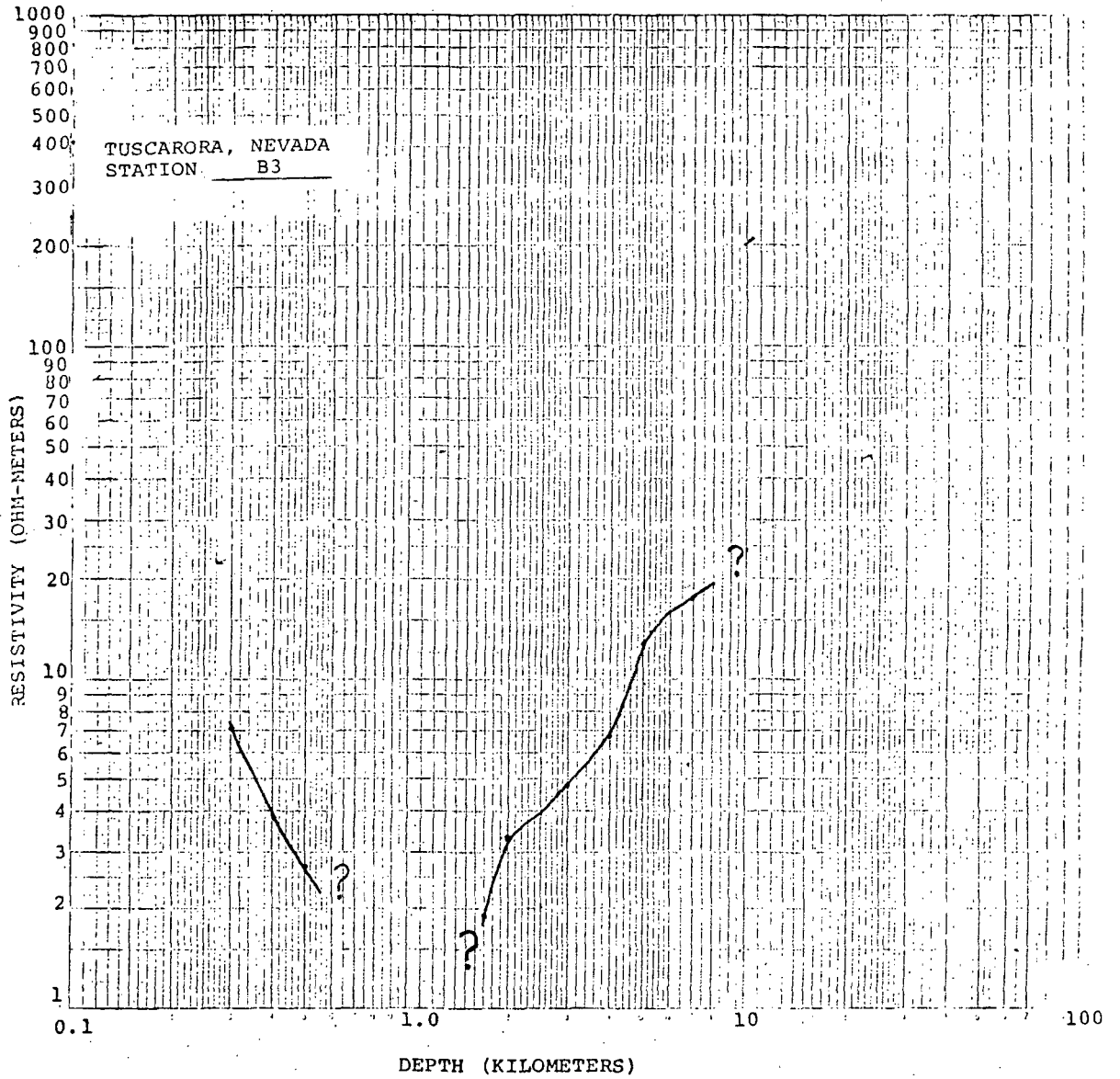
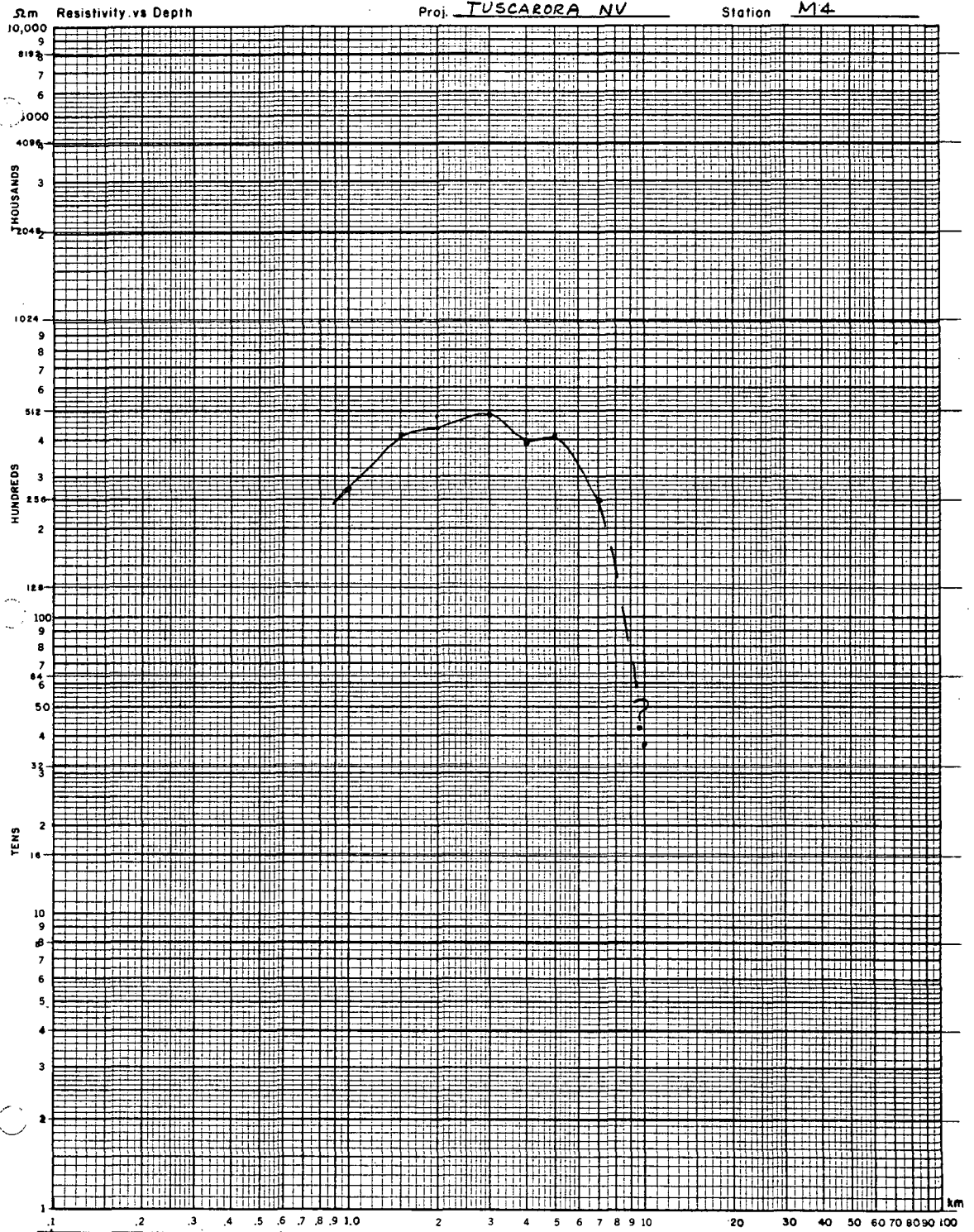


FIGURE 9 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.



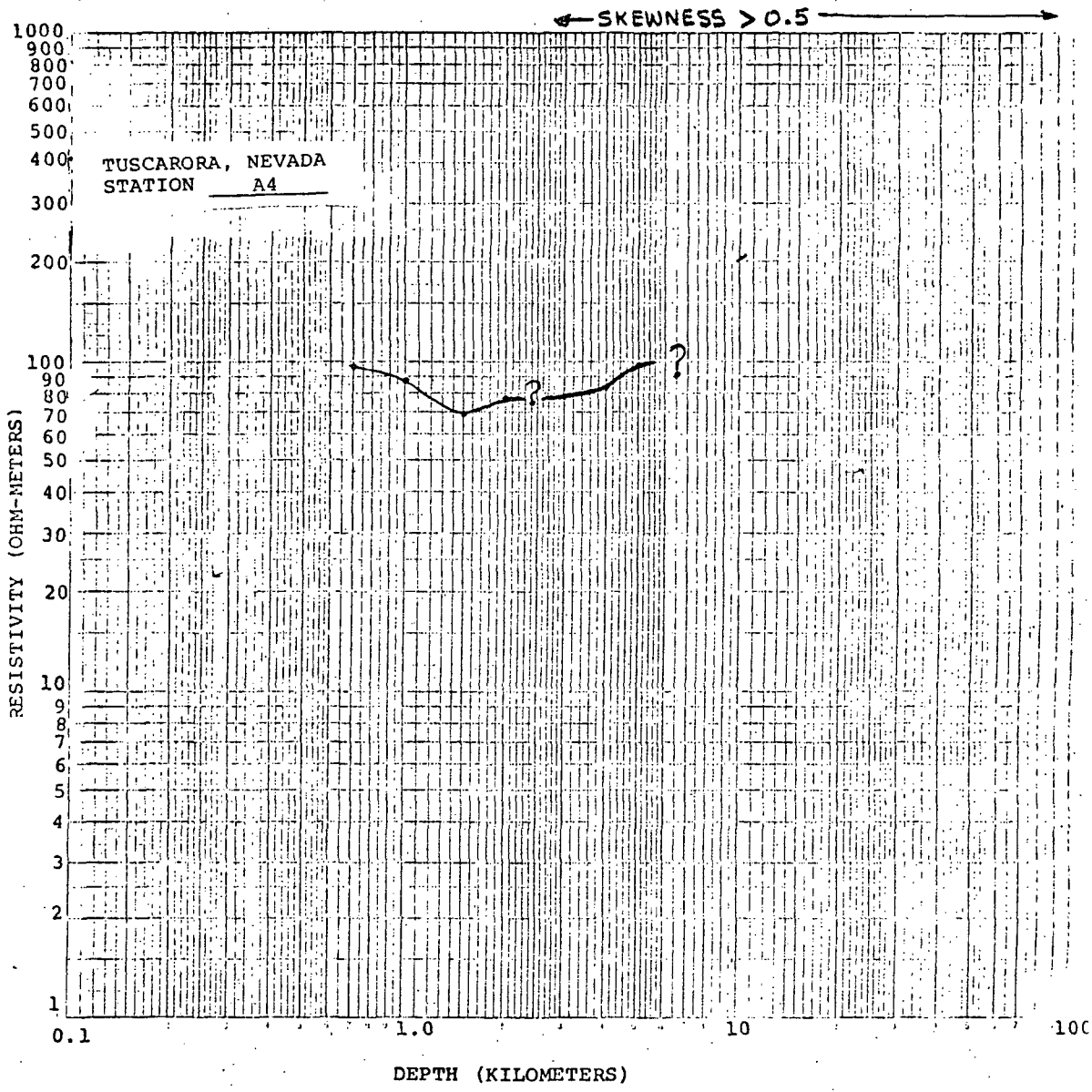


FIGURE 10 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

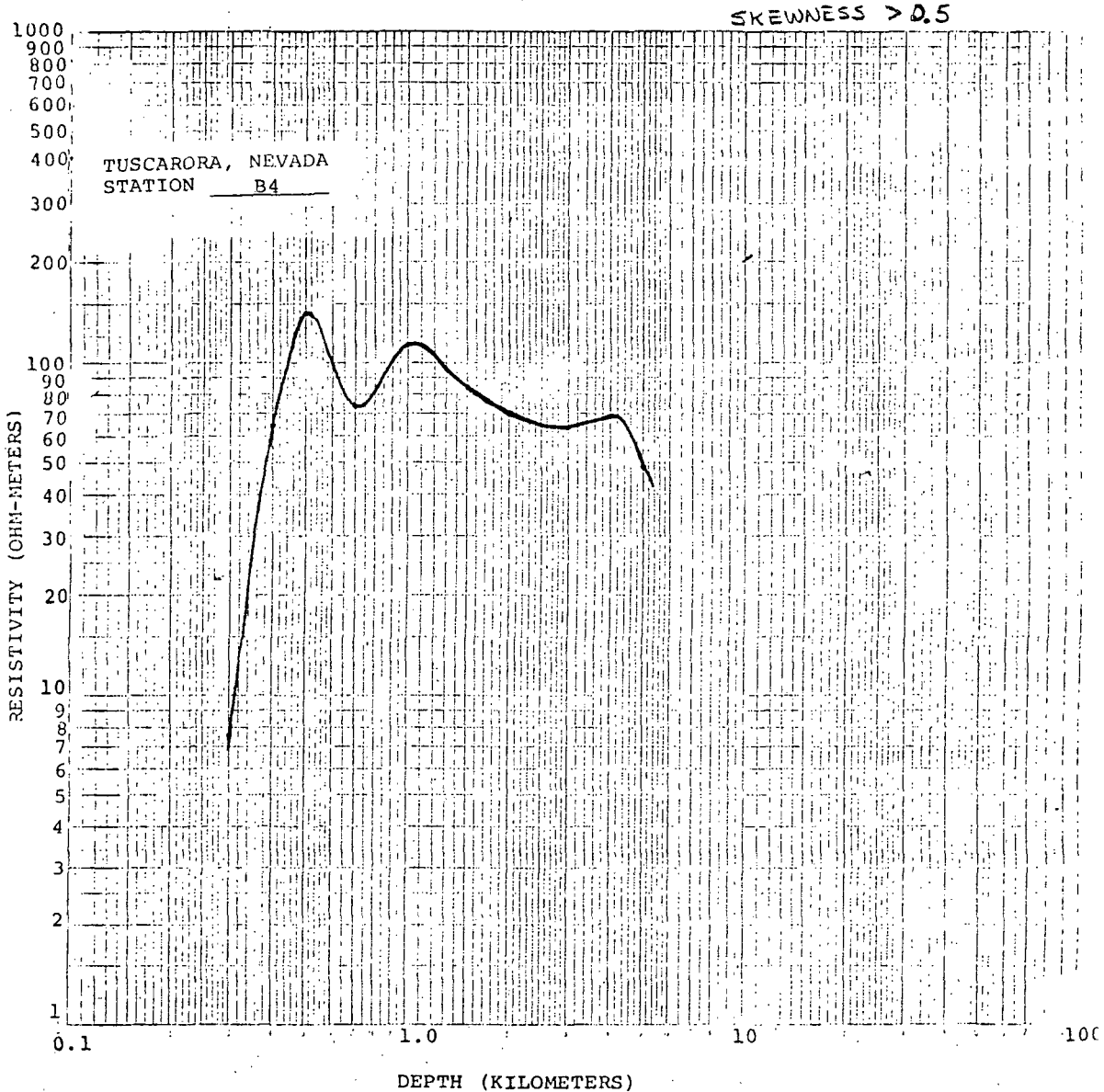


FIGURE 11 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

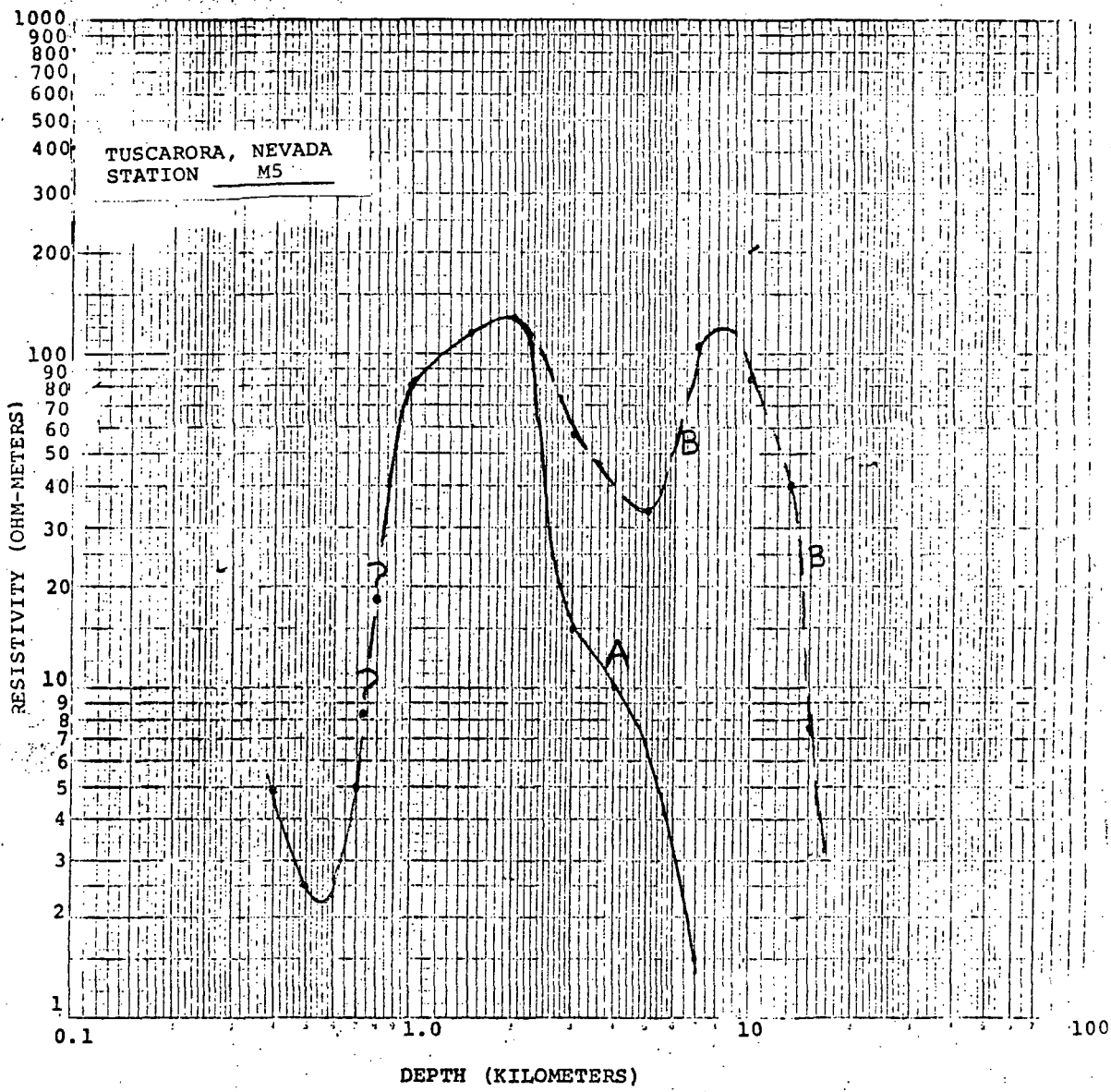


FIGURE 12 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

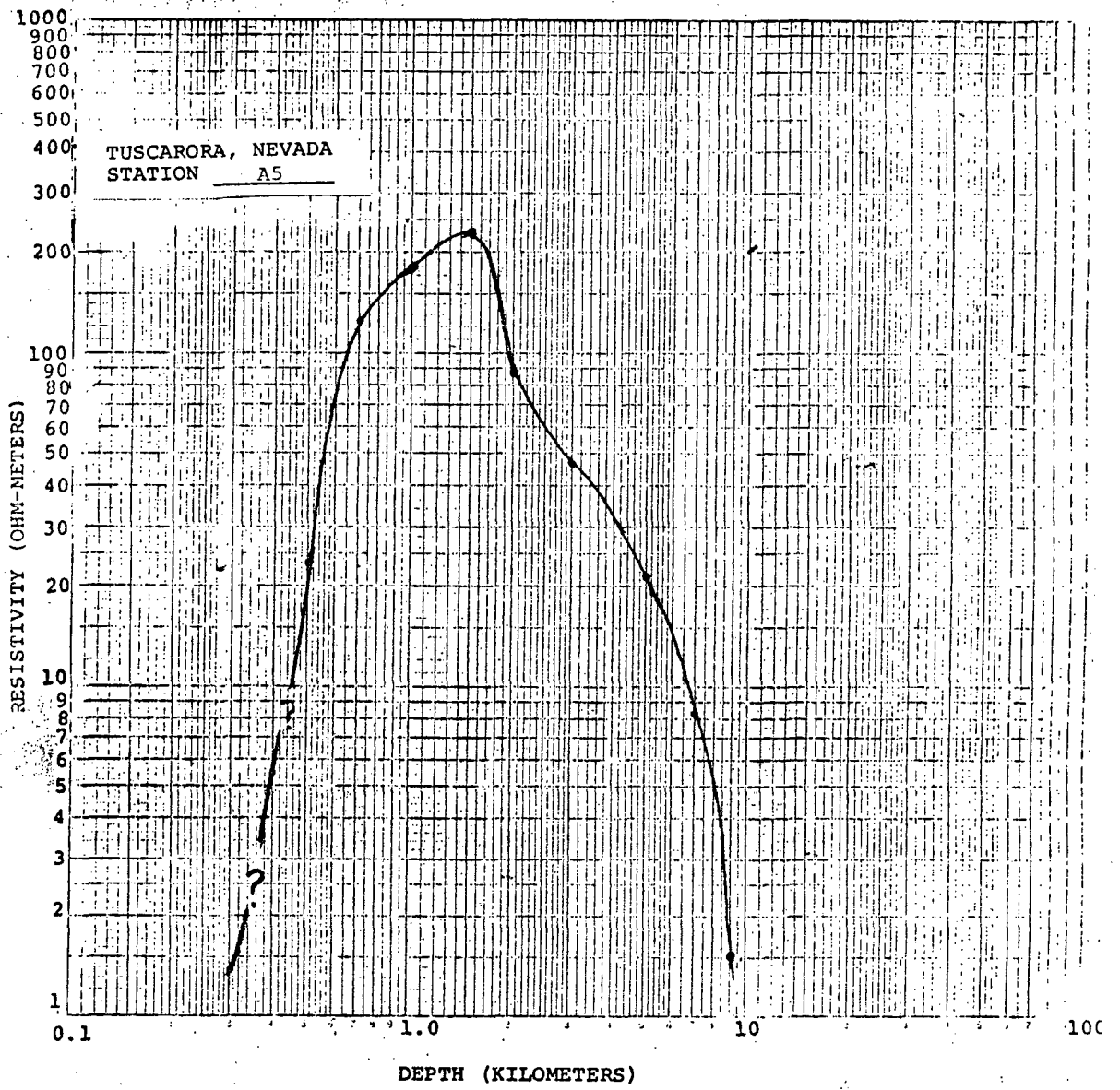


FIGURE 13 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

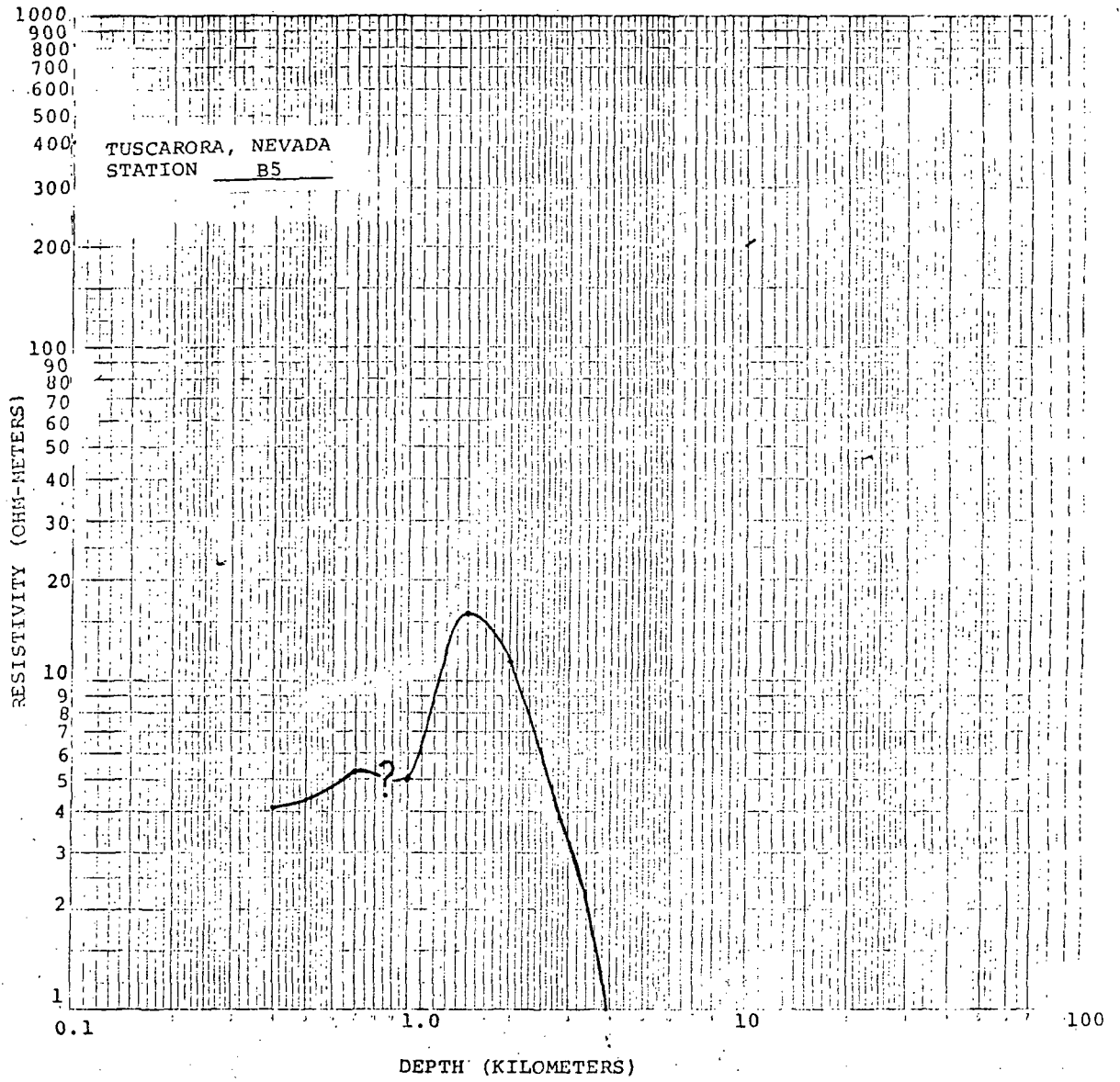


FIGURE 14 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

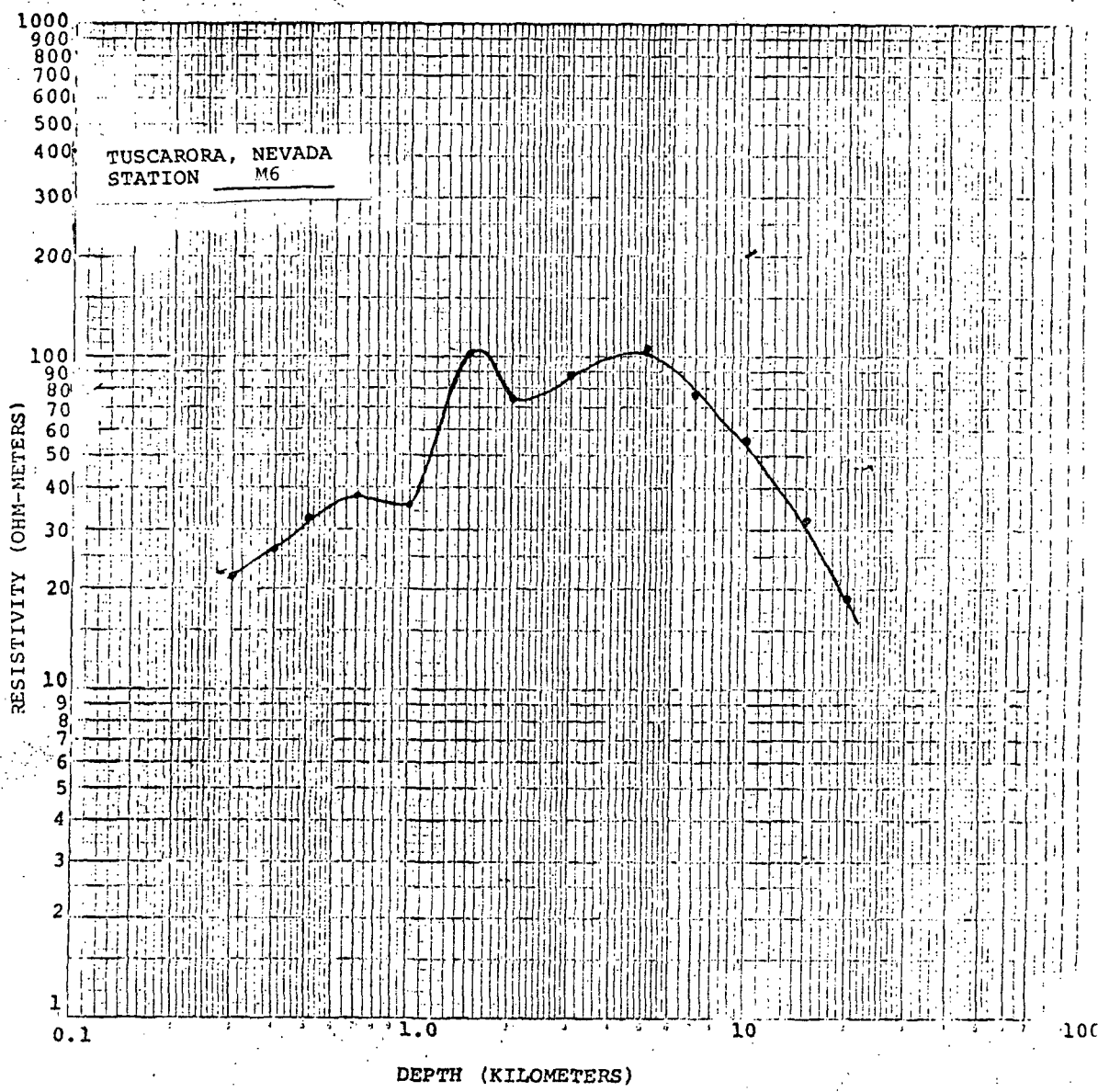


FIGURE 15 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

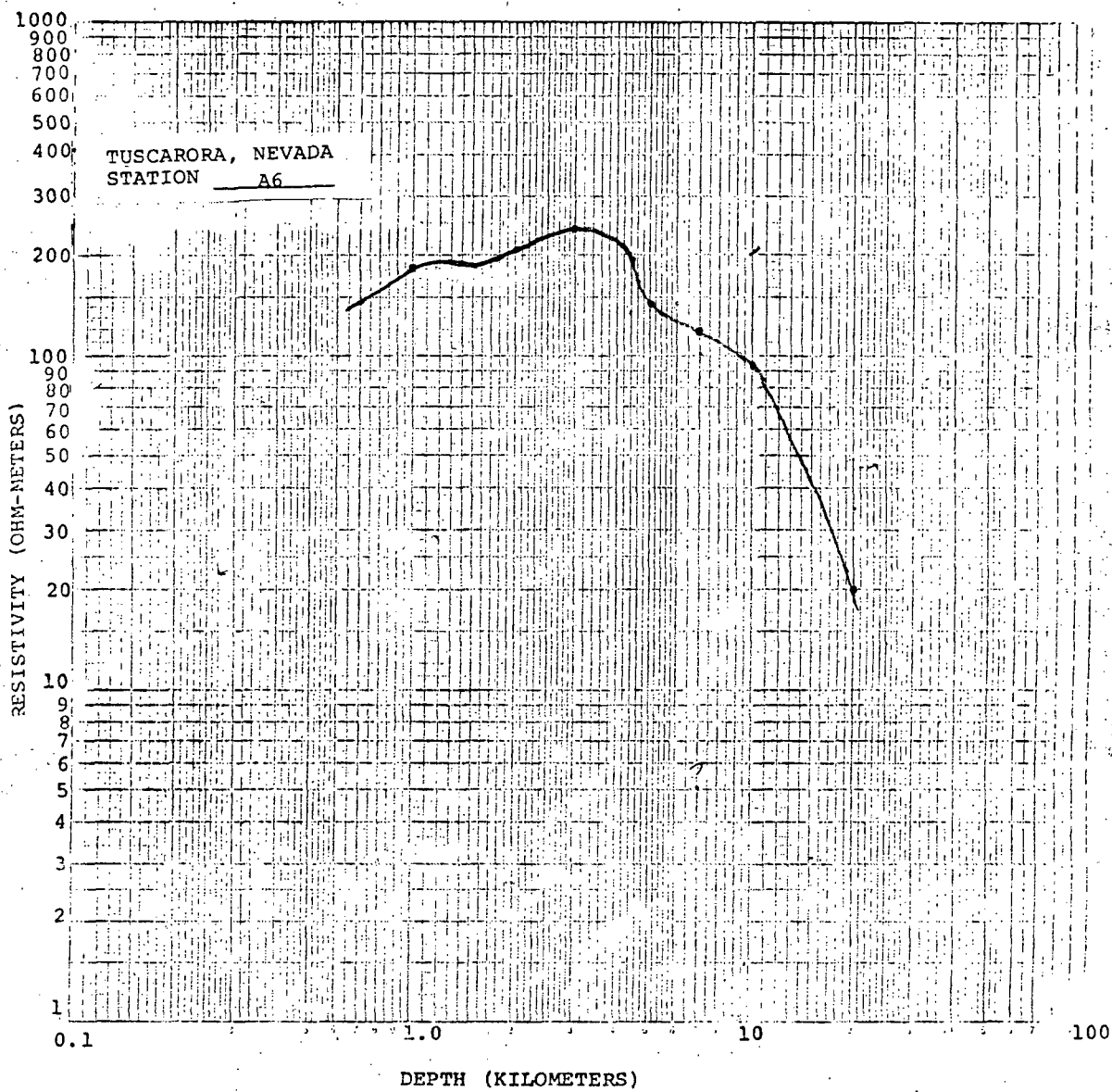


FIGURE 16 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

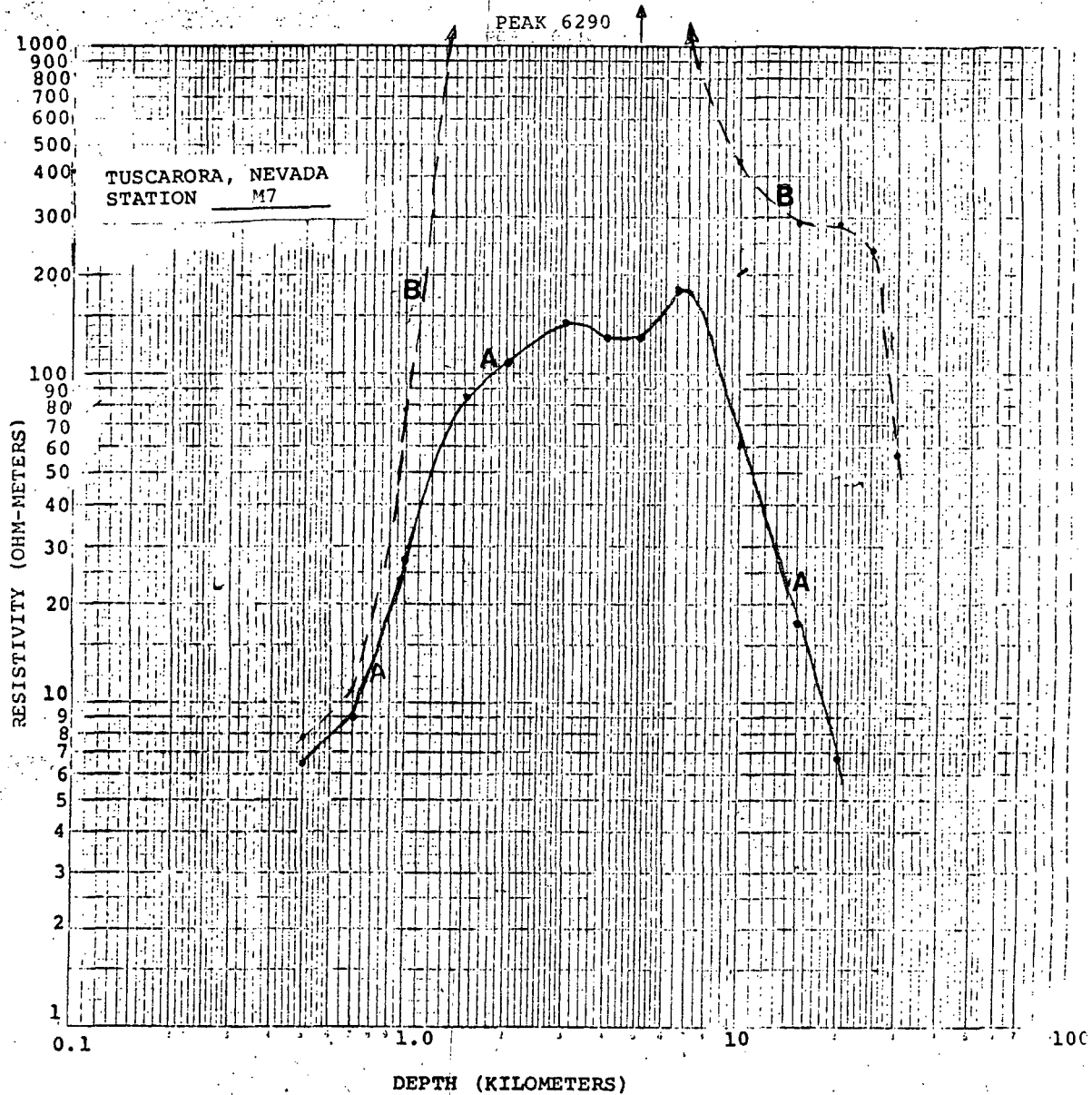


FIGURE 17 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

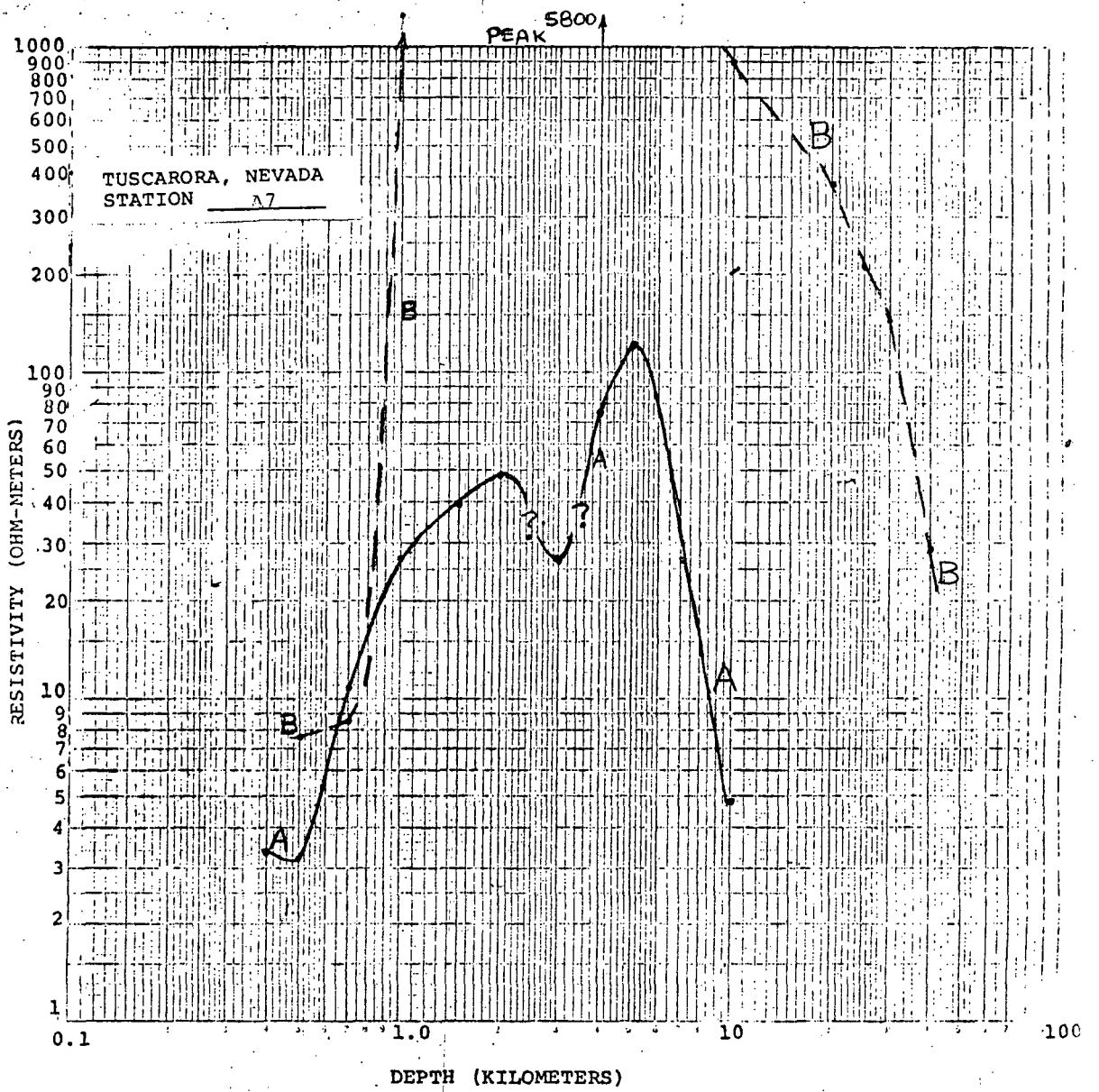


FIGURE 18 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

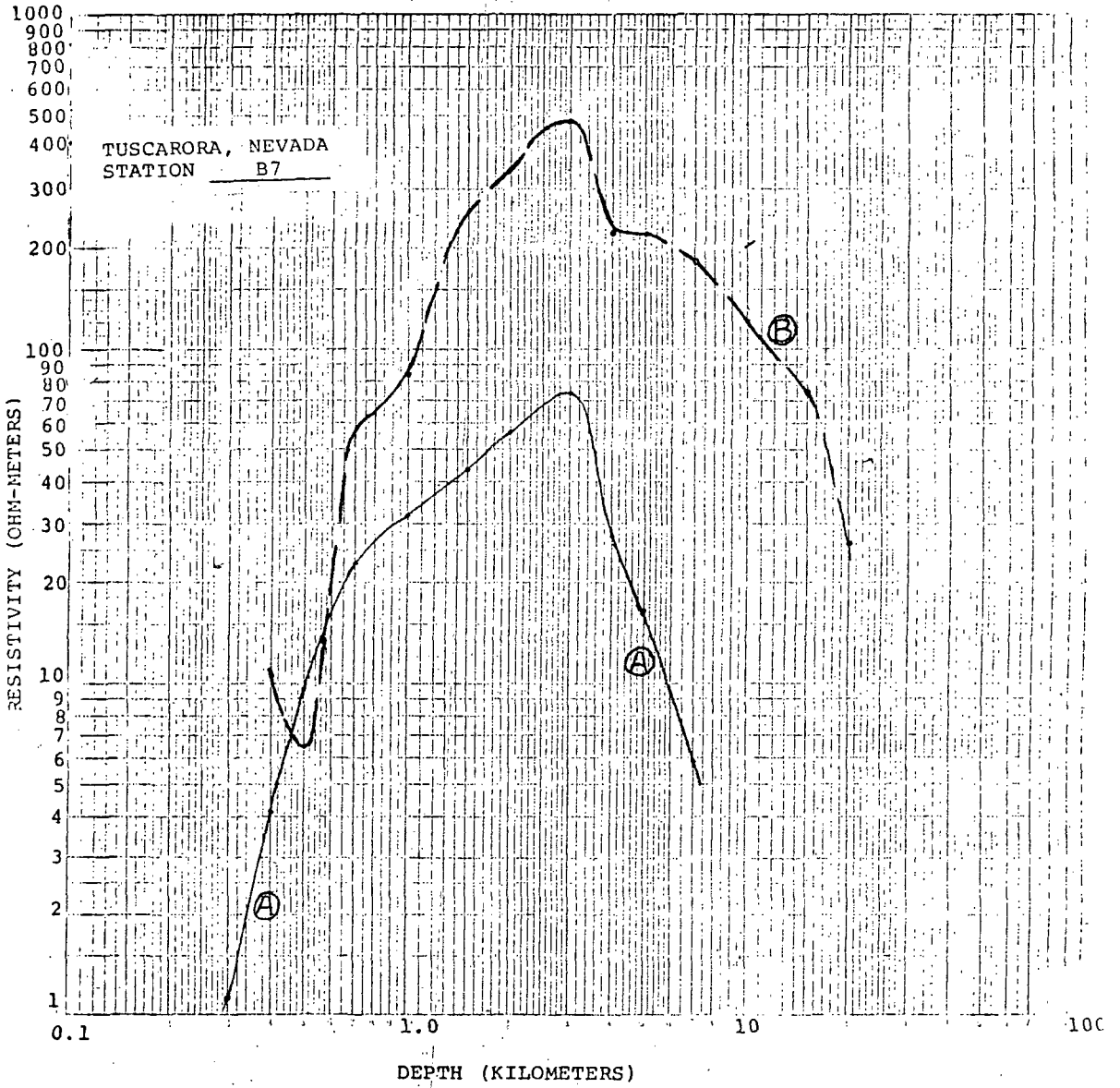


FIGURE 19 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

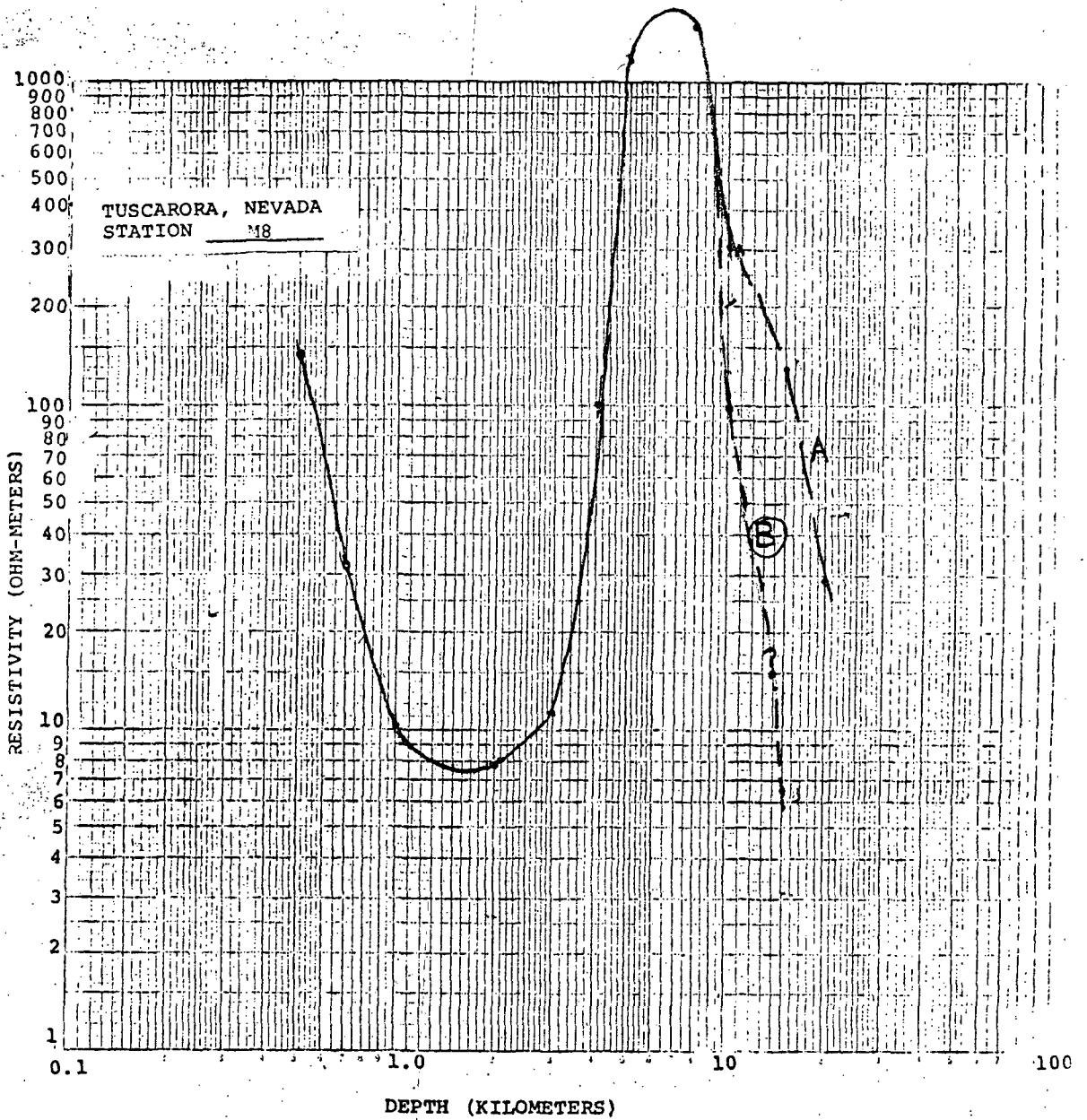


FIGURE 20 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

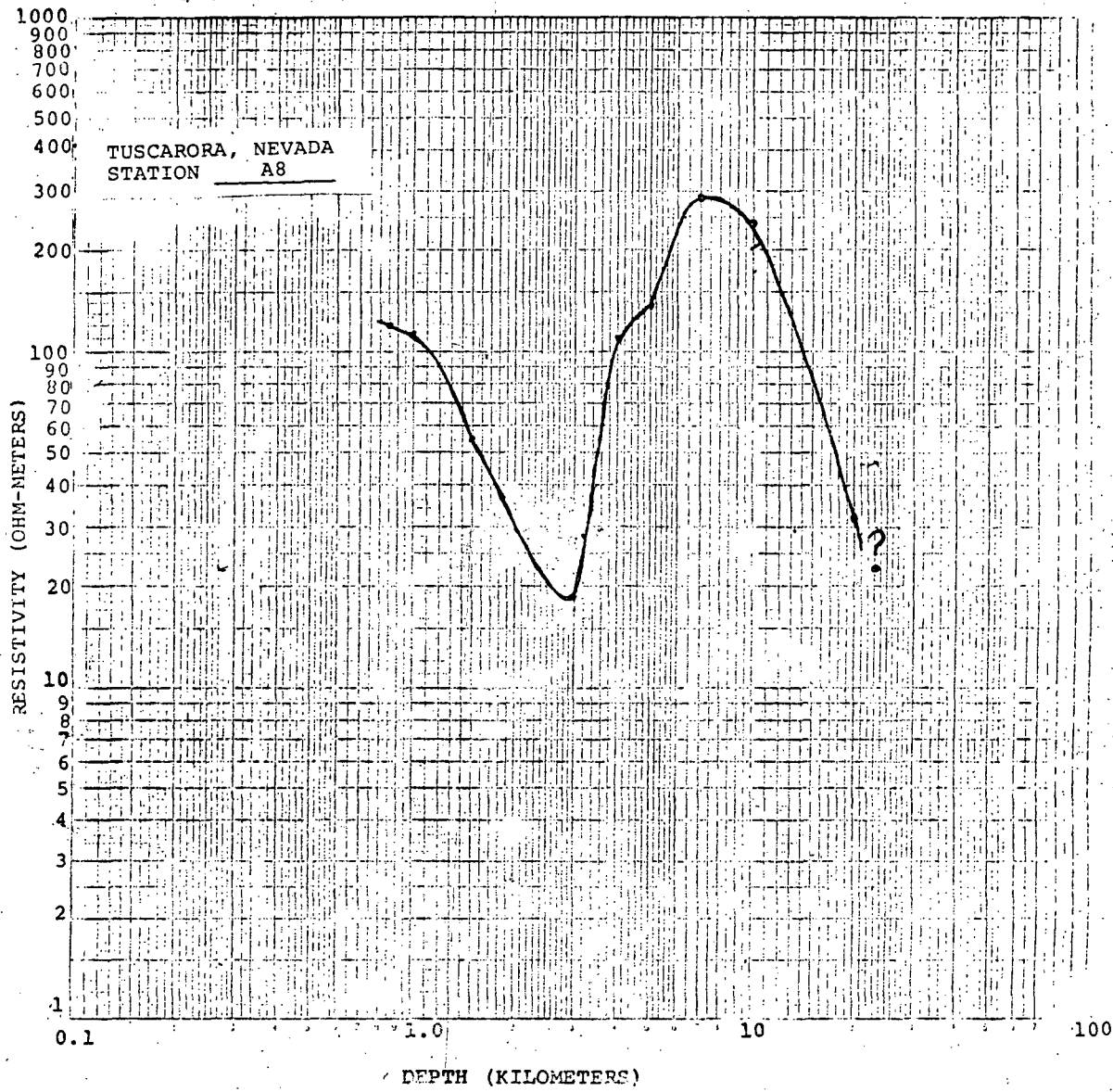


FIGURE 21 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

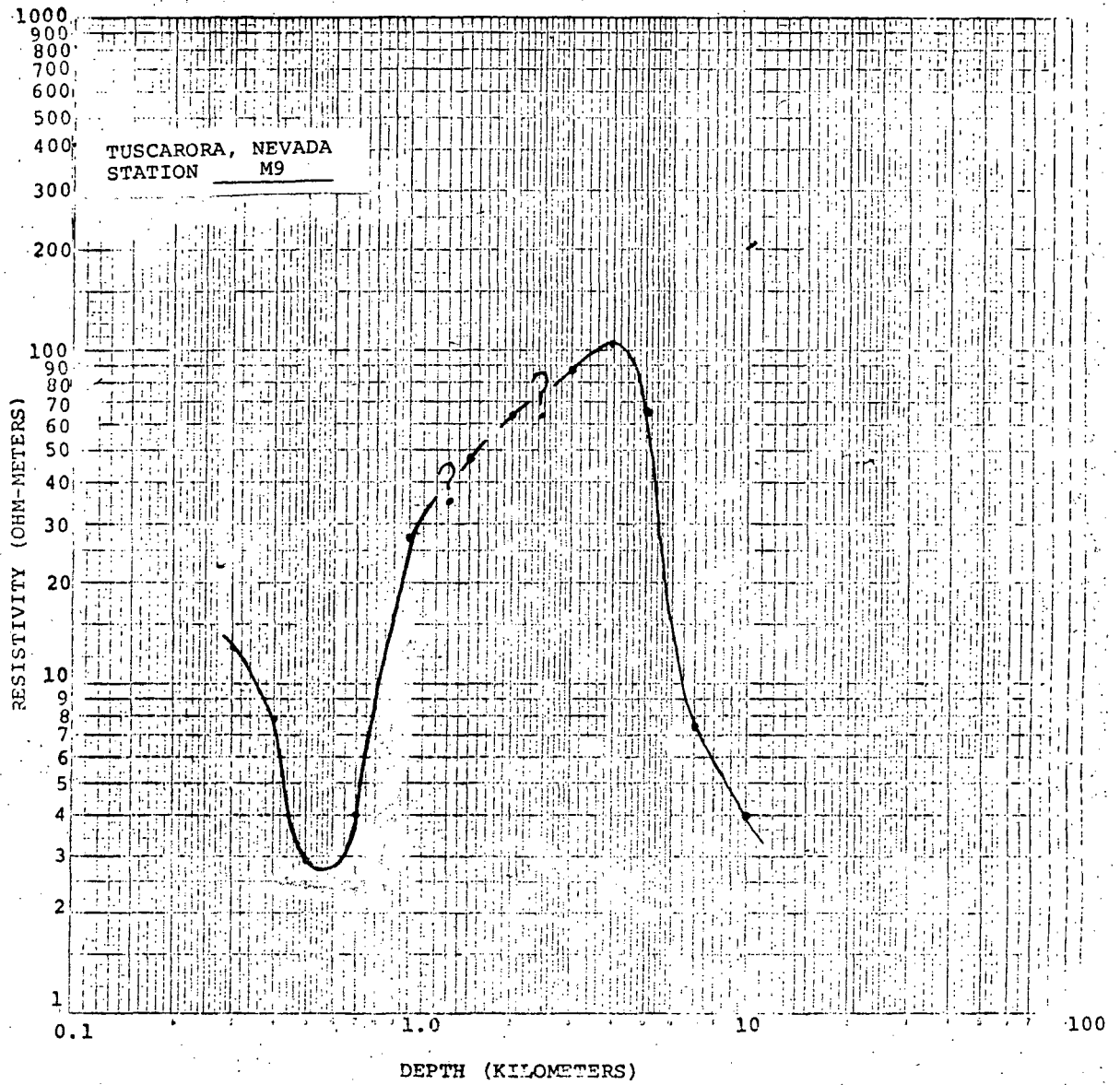


FIGURE 22 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

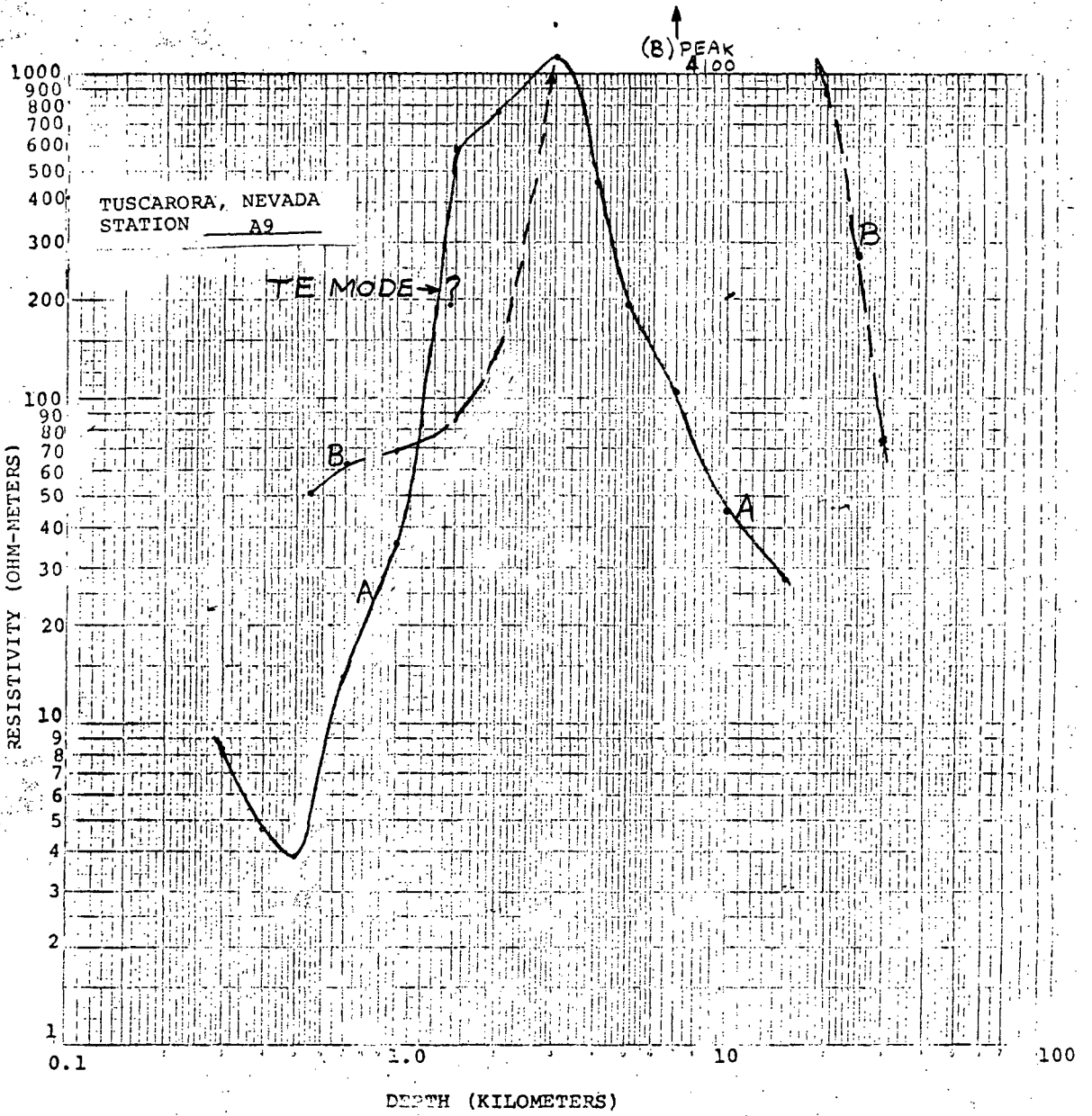


FIGURE 23 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

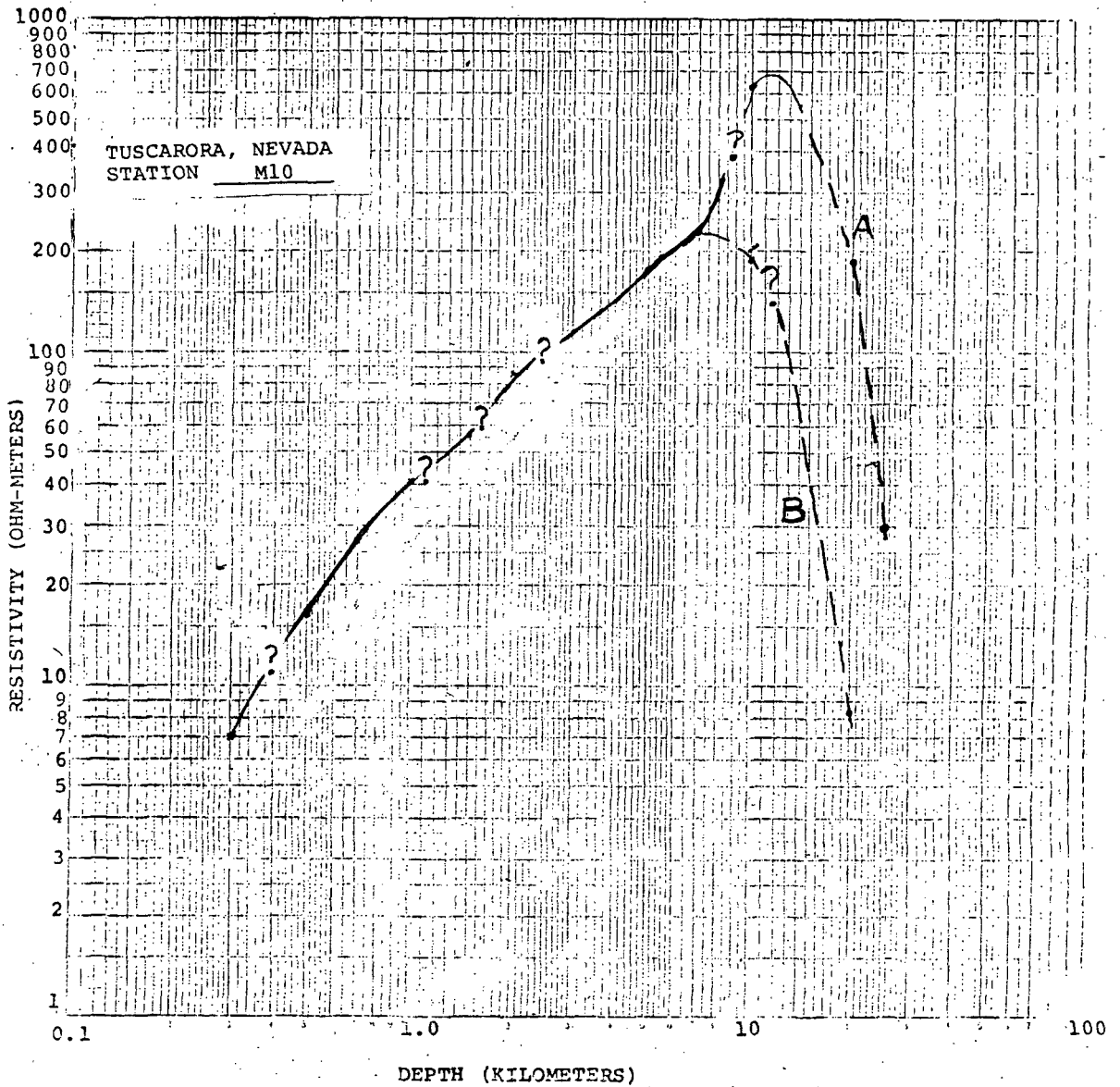


FIGURE 24. . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

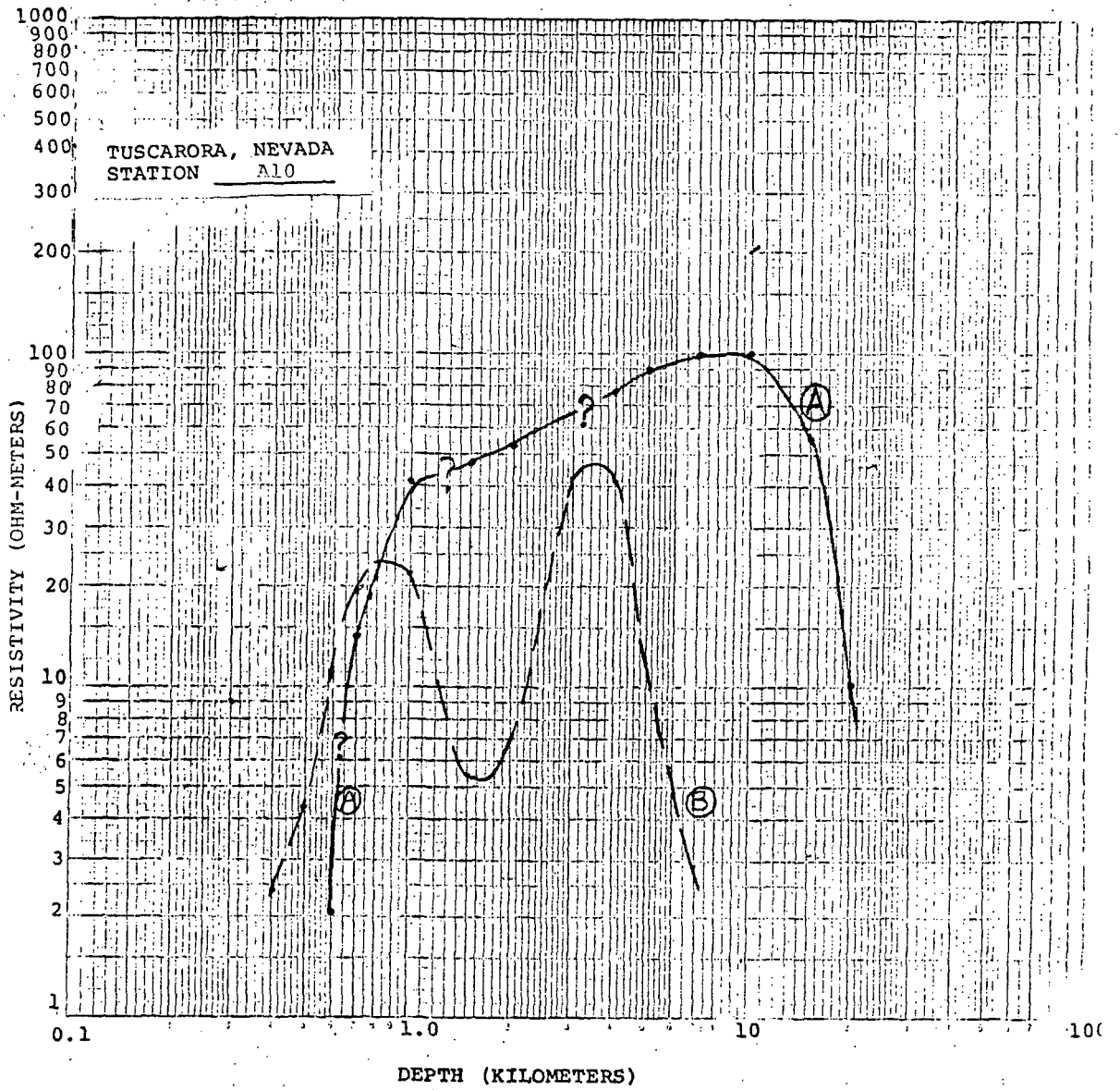


FIGURE 25 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

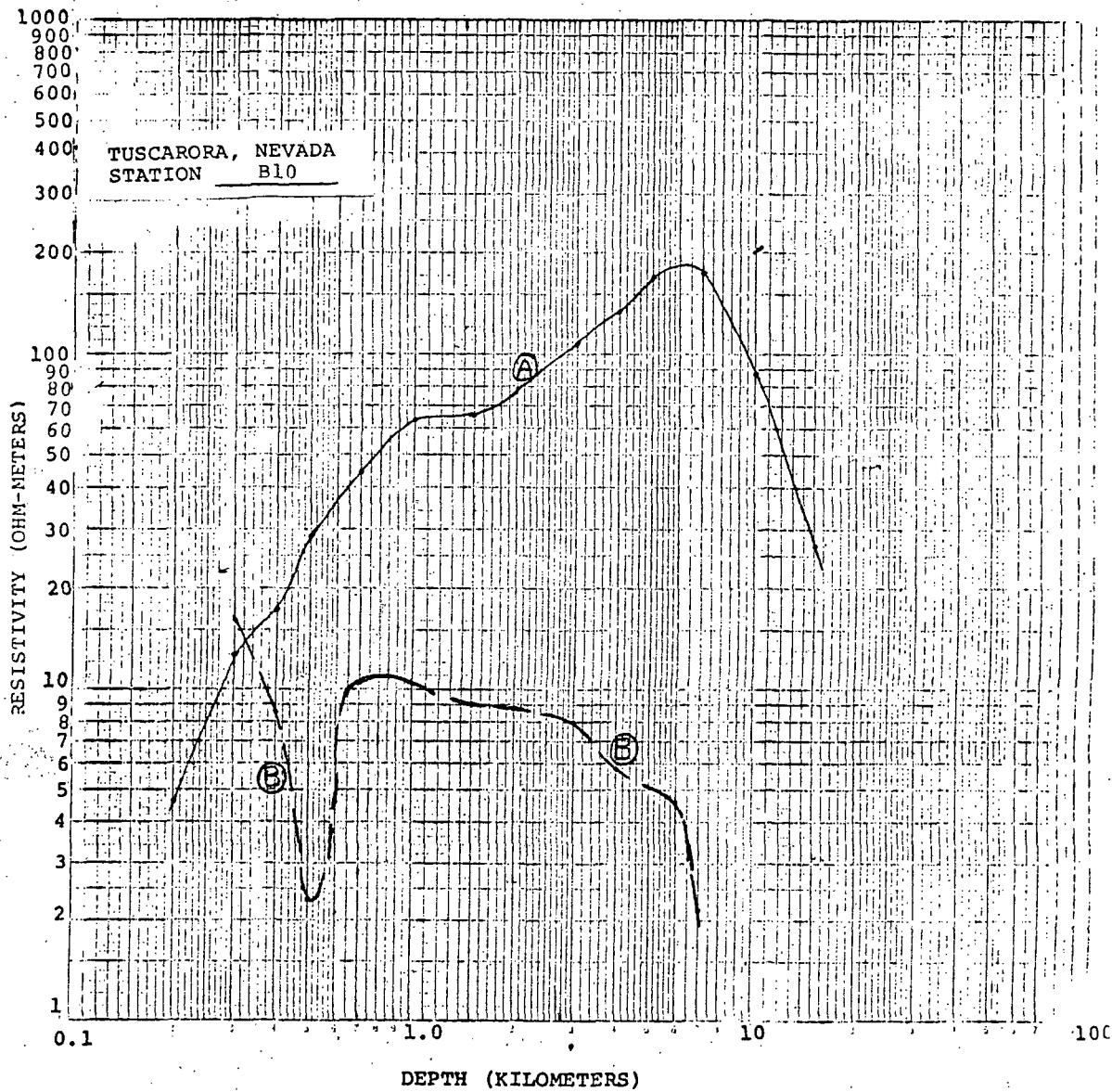


FIGURE 26 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

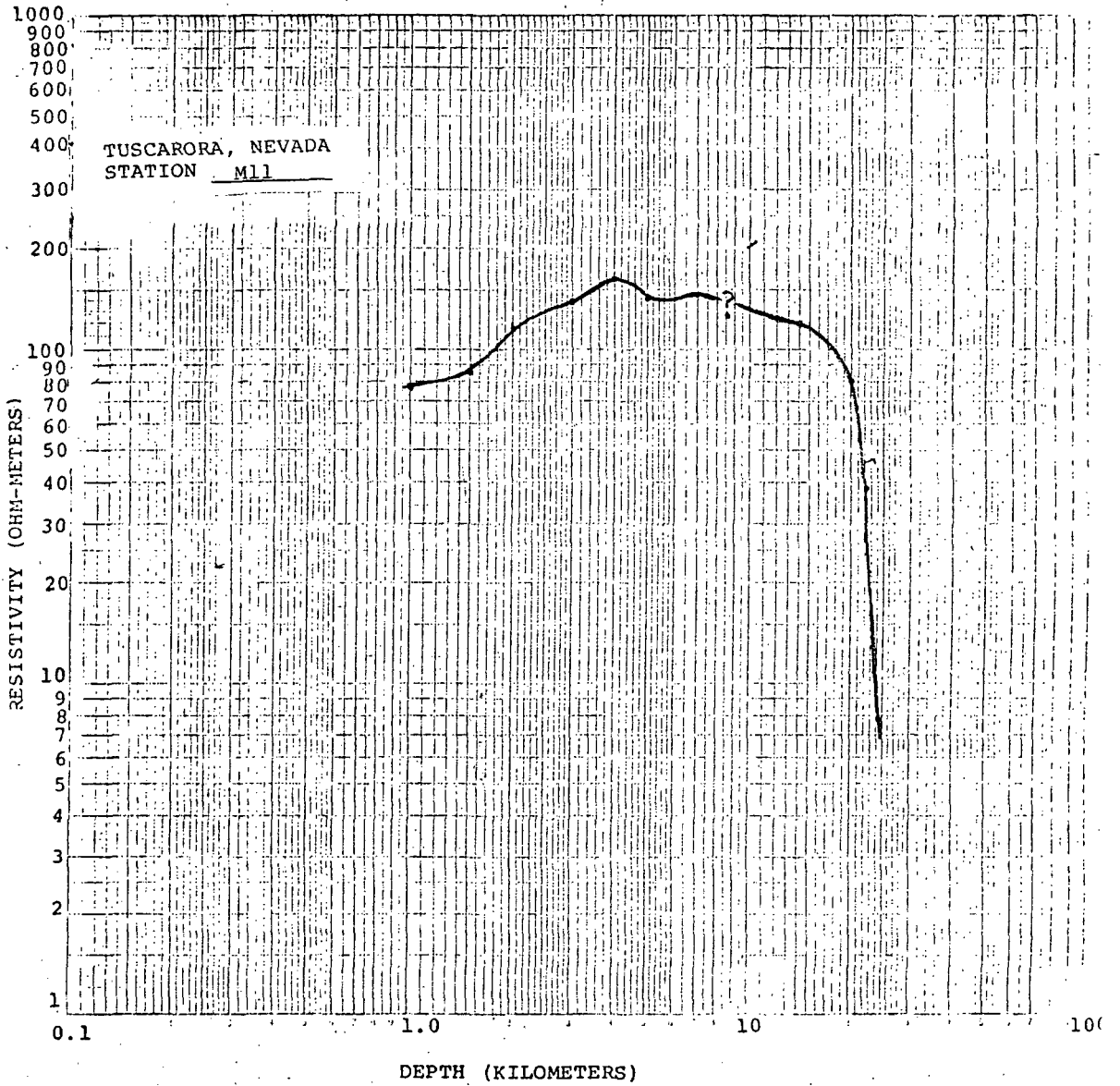


FIGURE 27 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

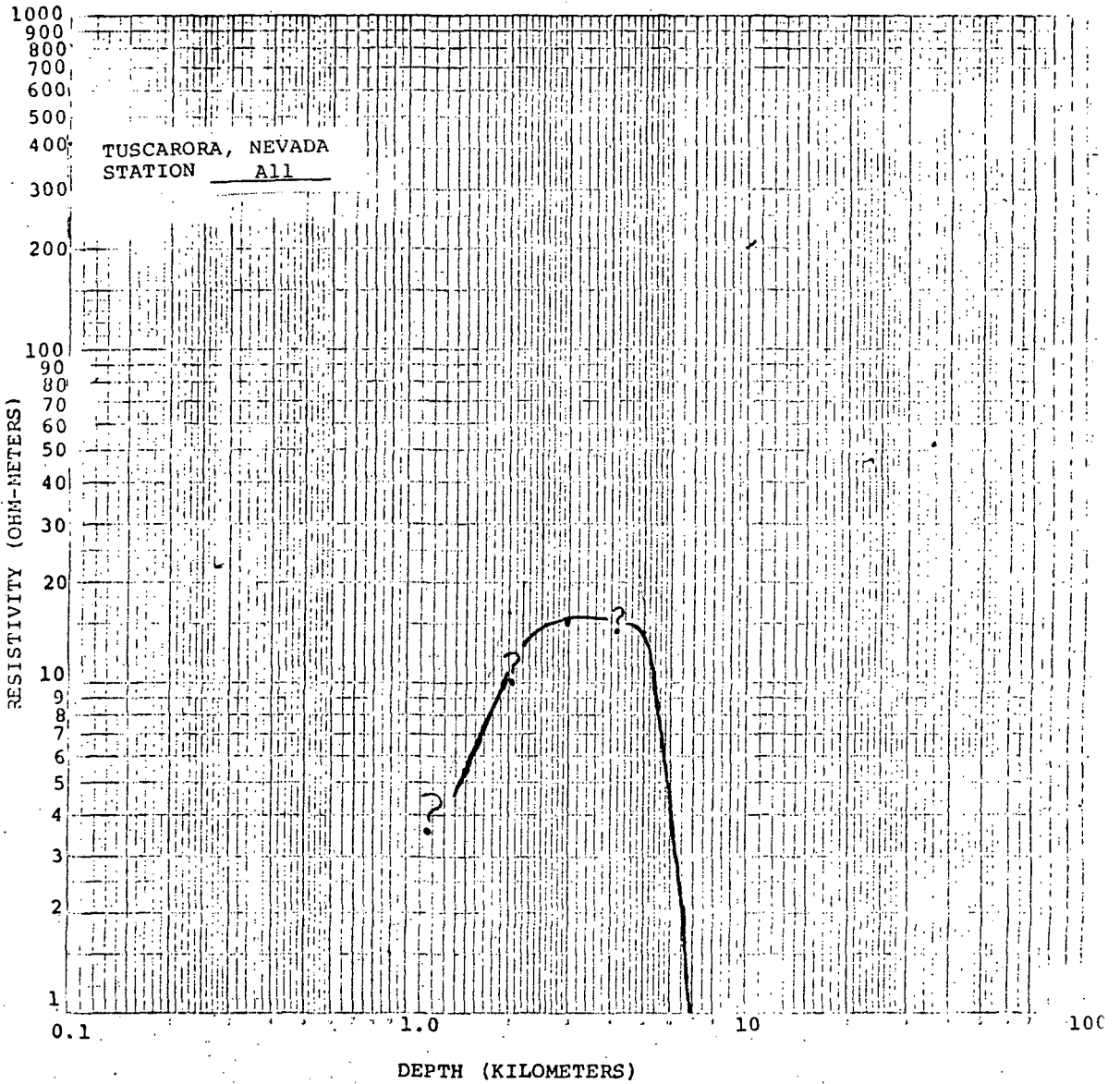


FIGURE 28 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

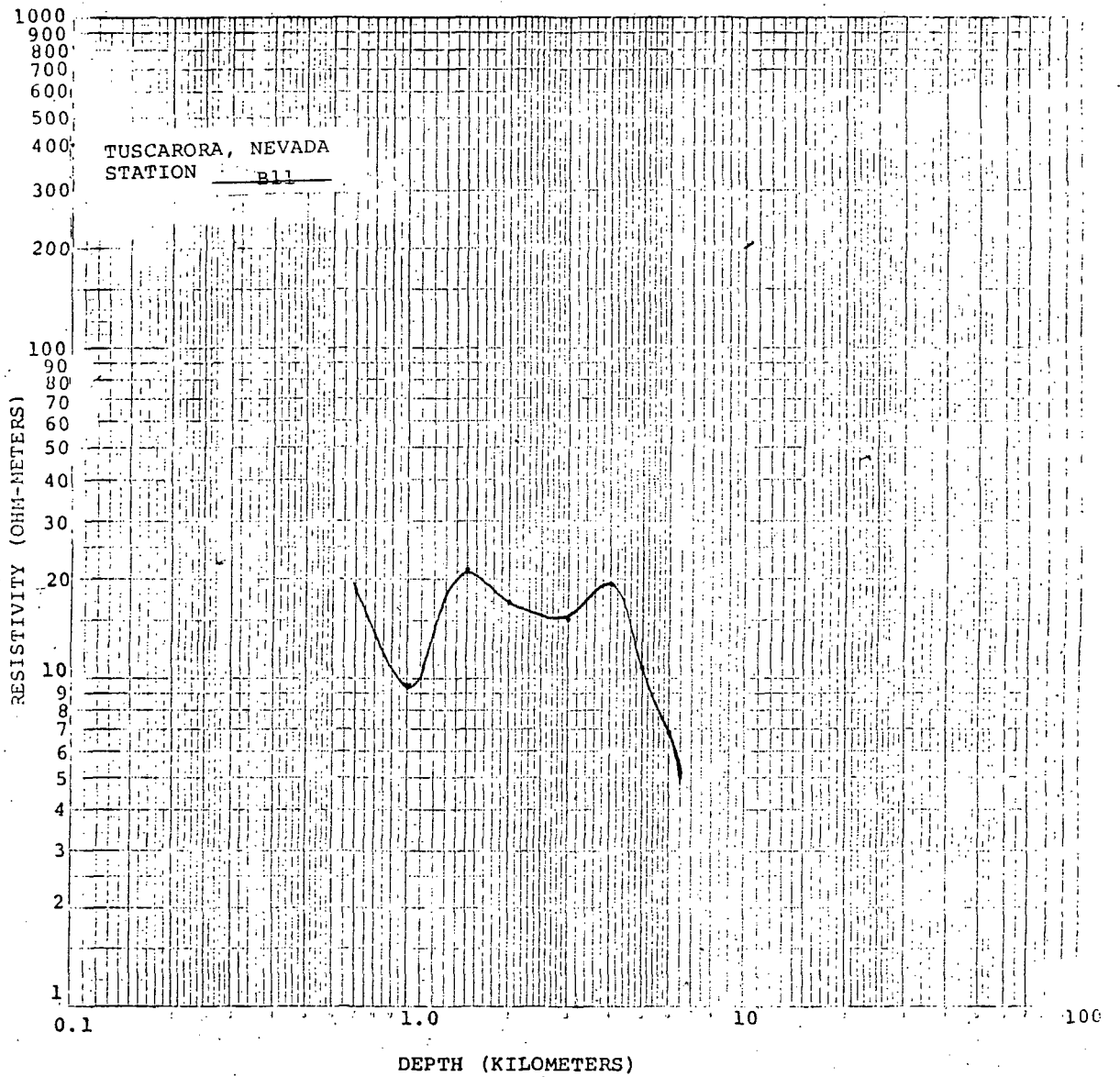
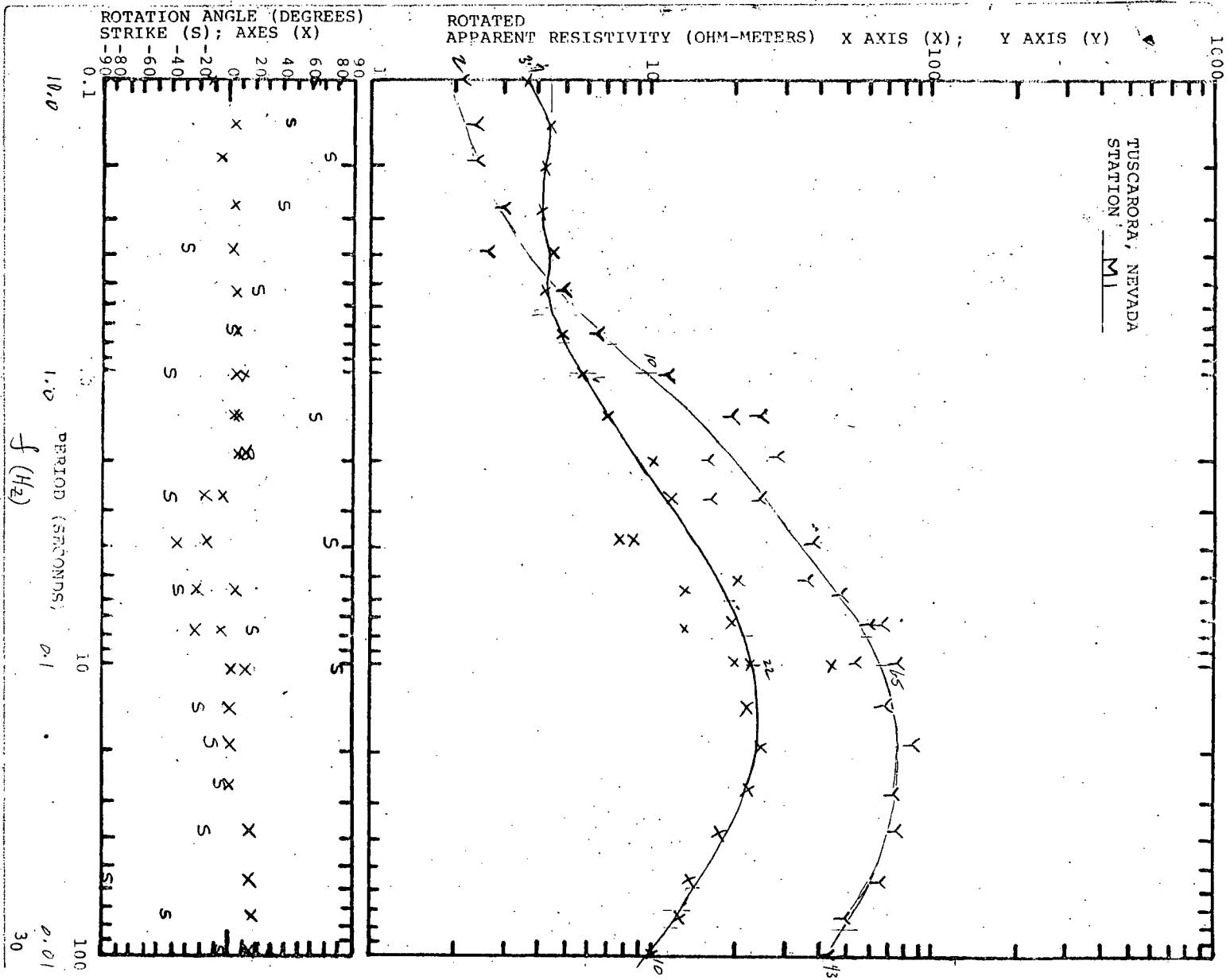


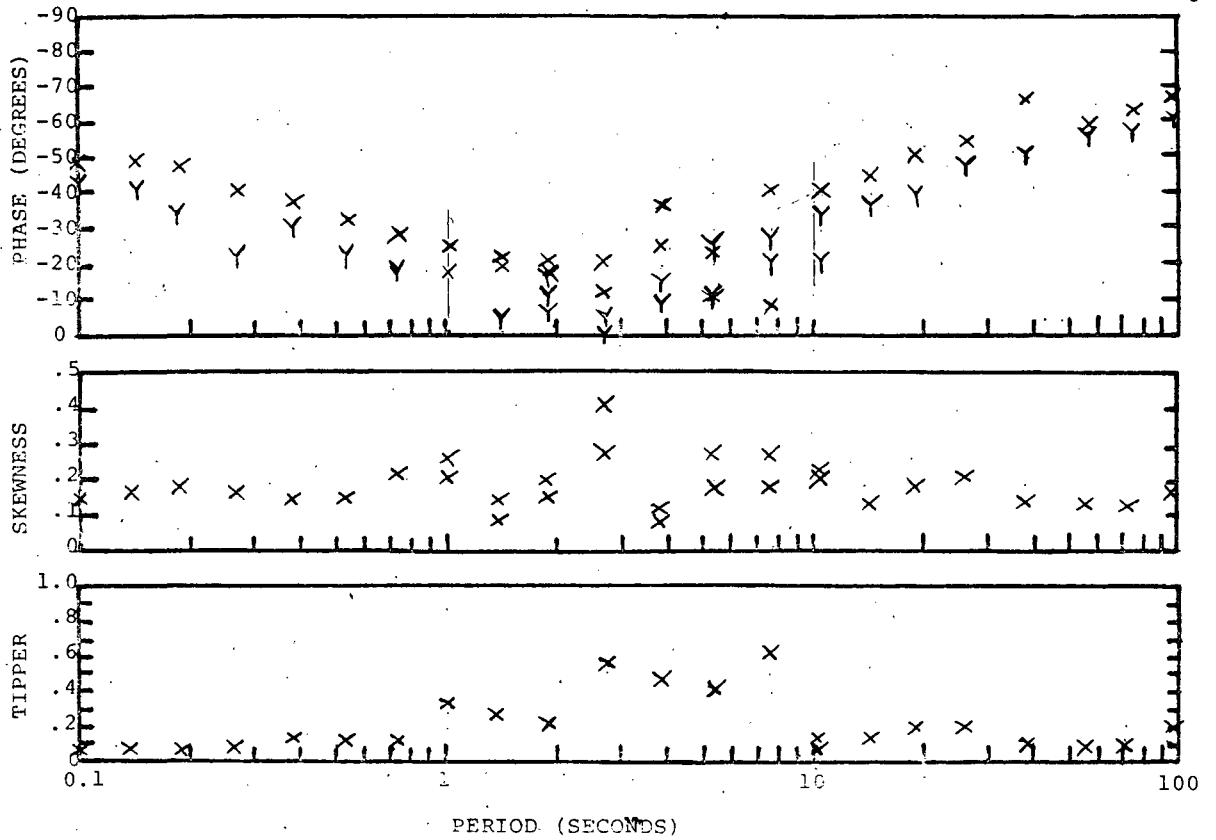
FIGURE 29 . INTERPRETED RESISTIVITY VS DEPTH CURVE USING CONTINUOUS INVERSION METHOD.

Fact. 2
2-15-57

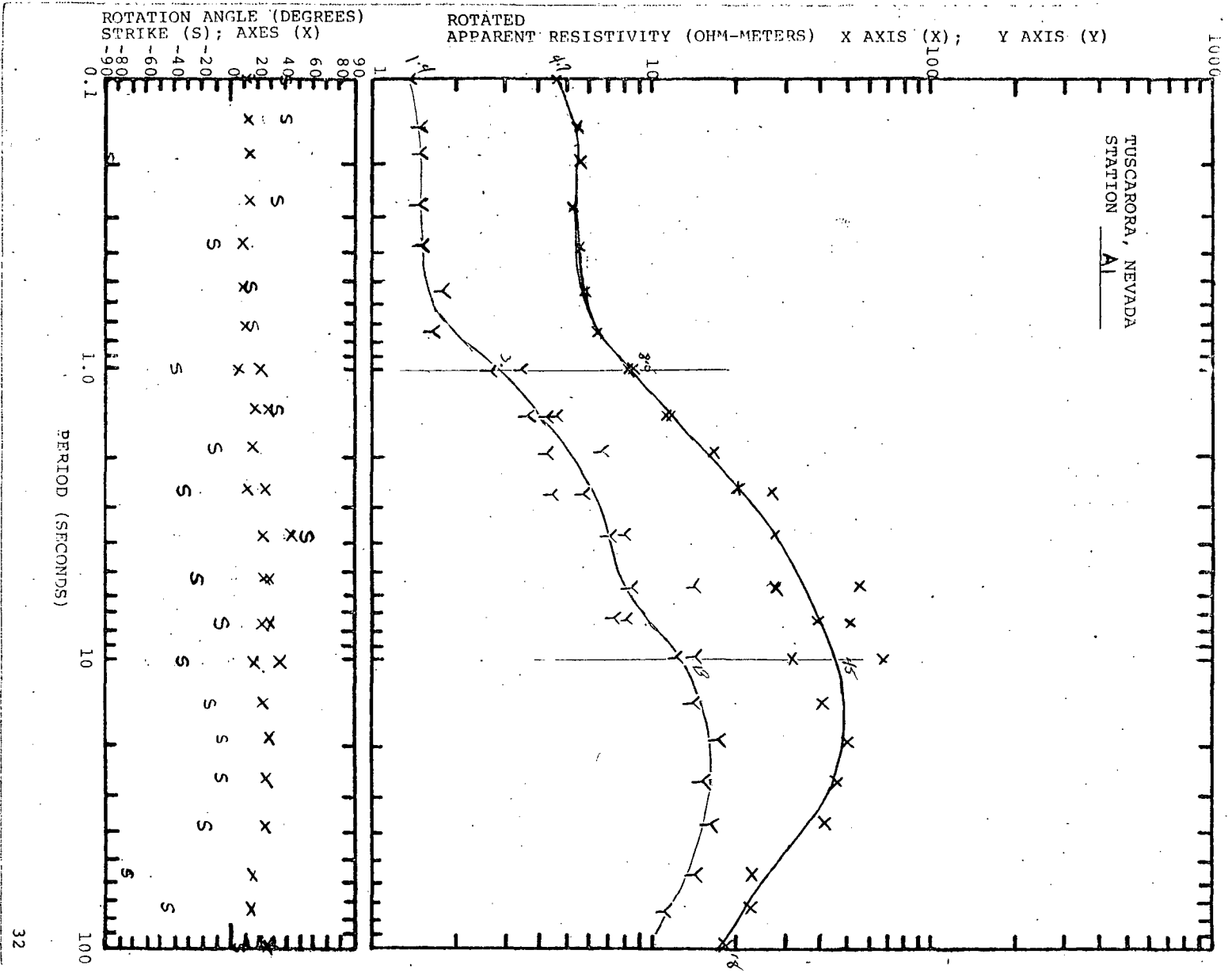


X - TE
Y - TM

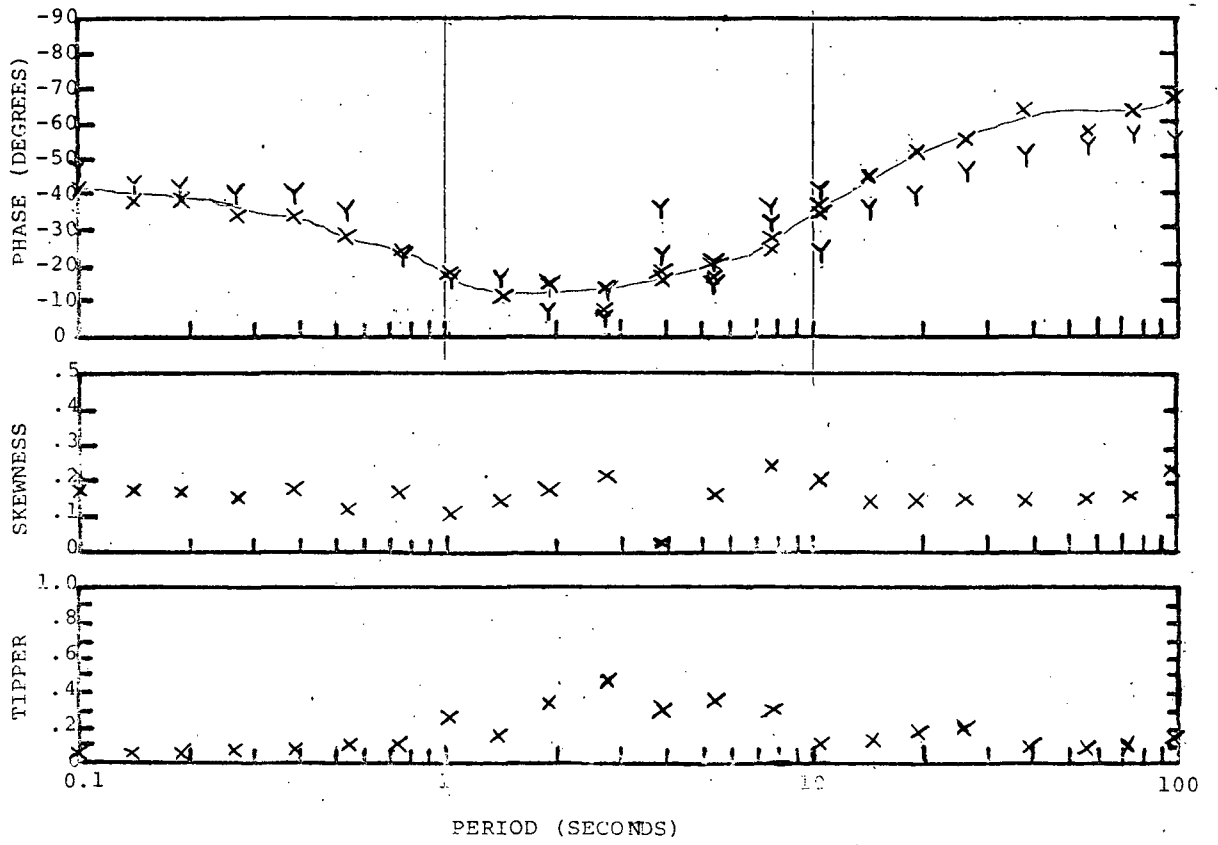
TUSCARORA, NEVADA
STATION: MI



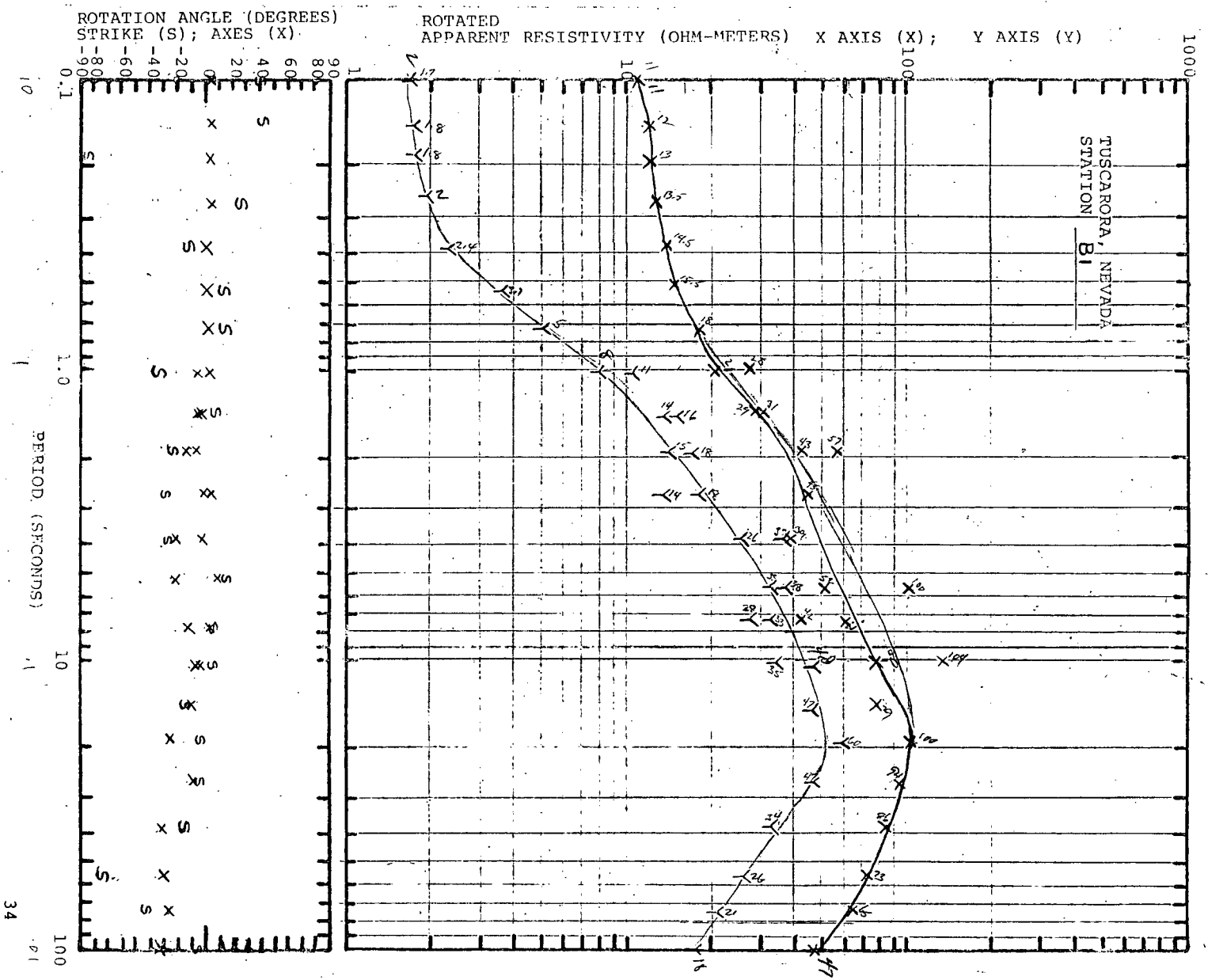
Fact 3
1.4 vs 4.7



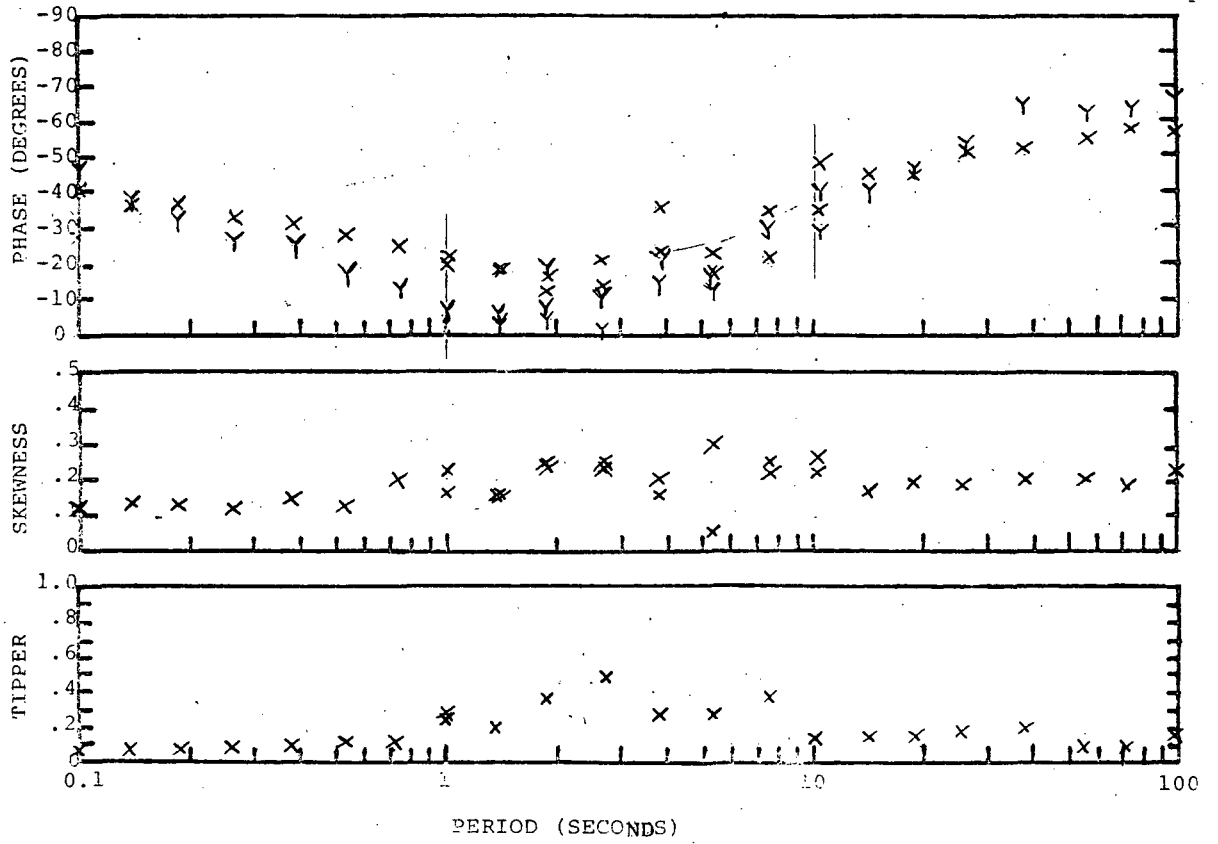
TUSCARORA, NEVADA
STATION: Al



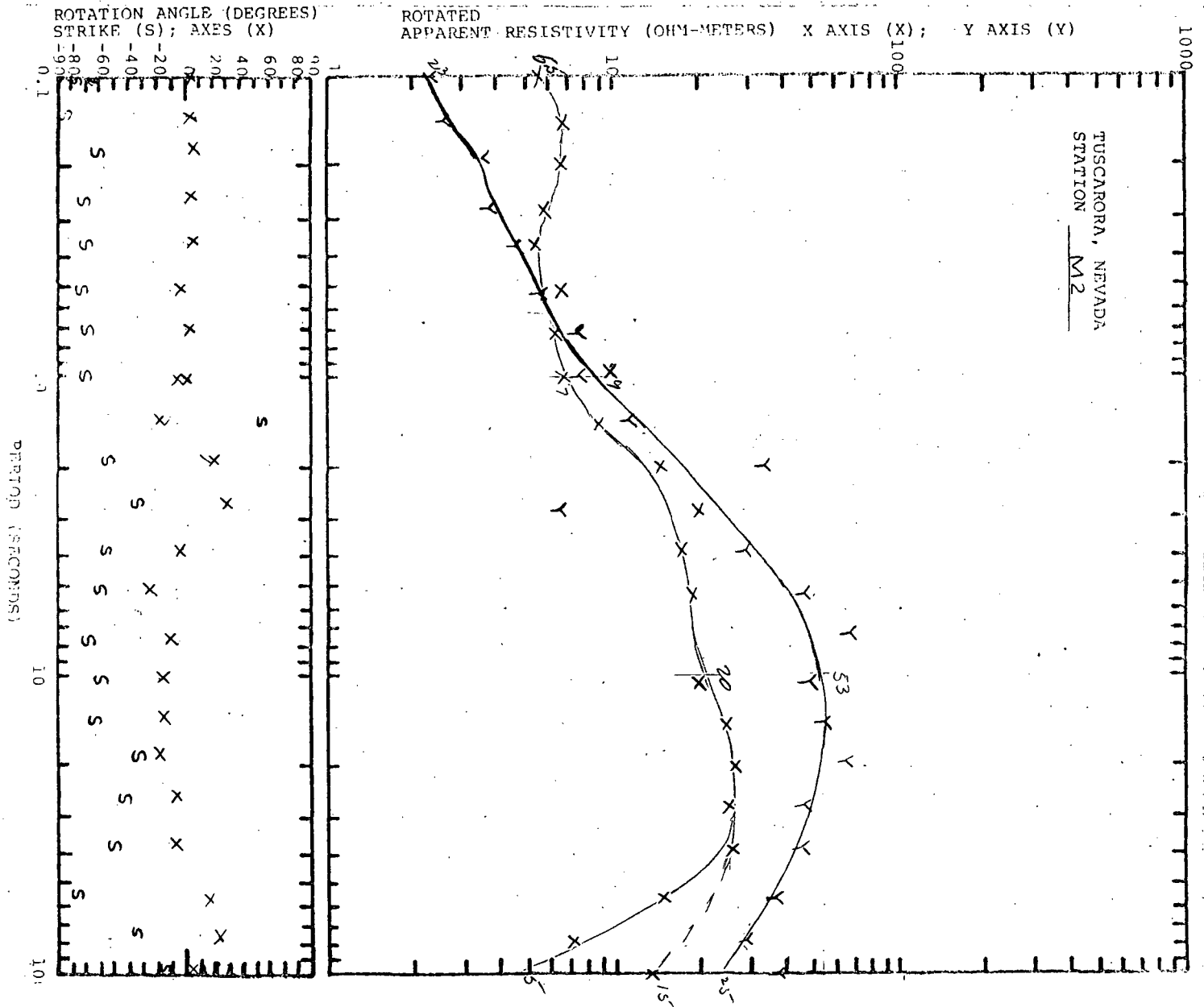
Field-6
1.7.55 11



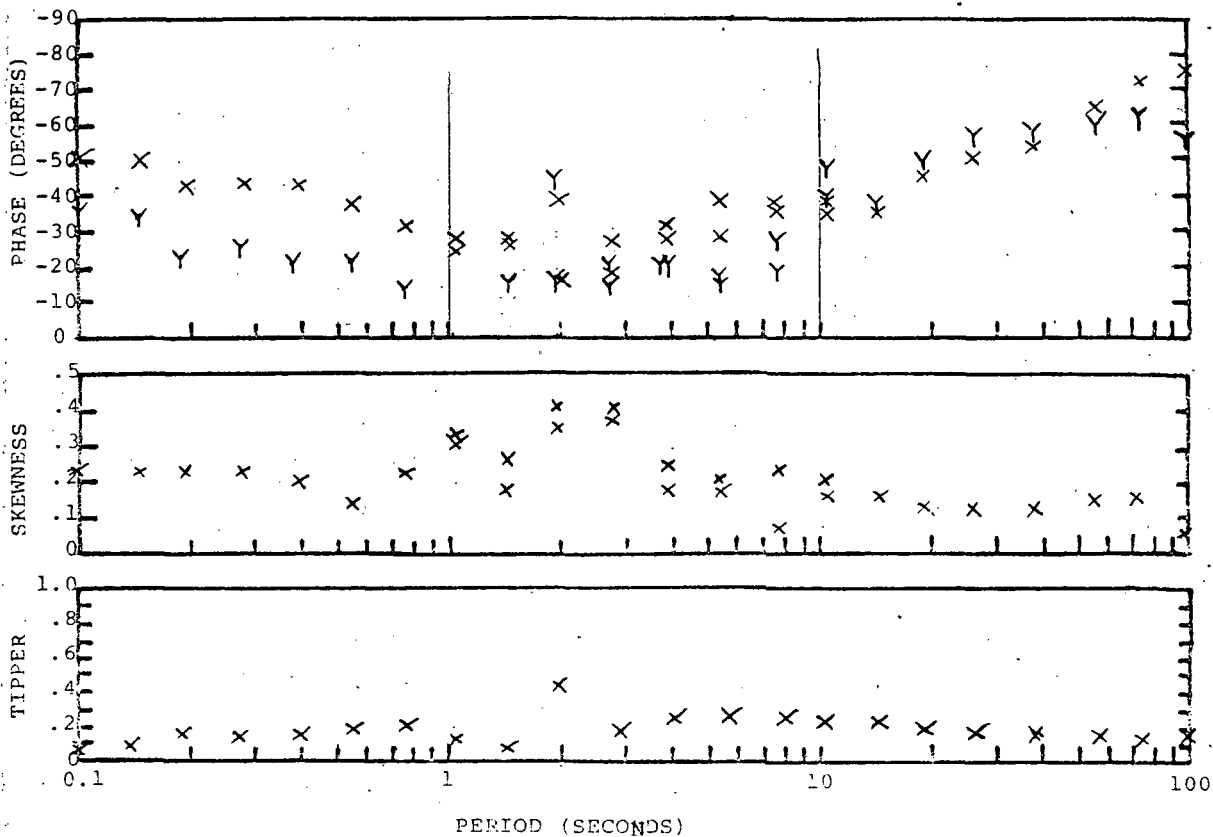
TUSCARORA, NEVADA
STATION BI

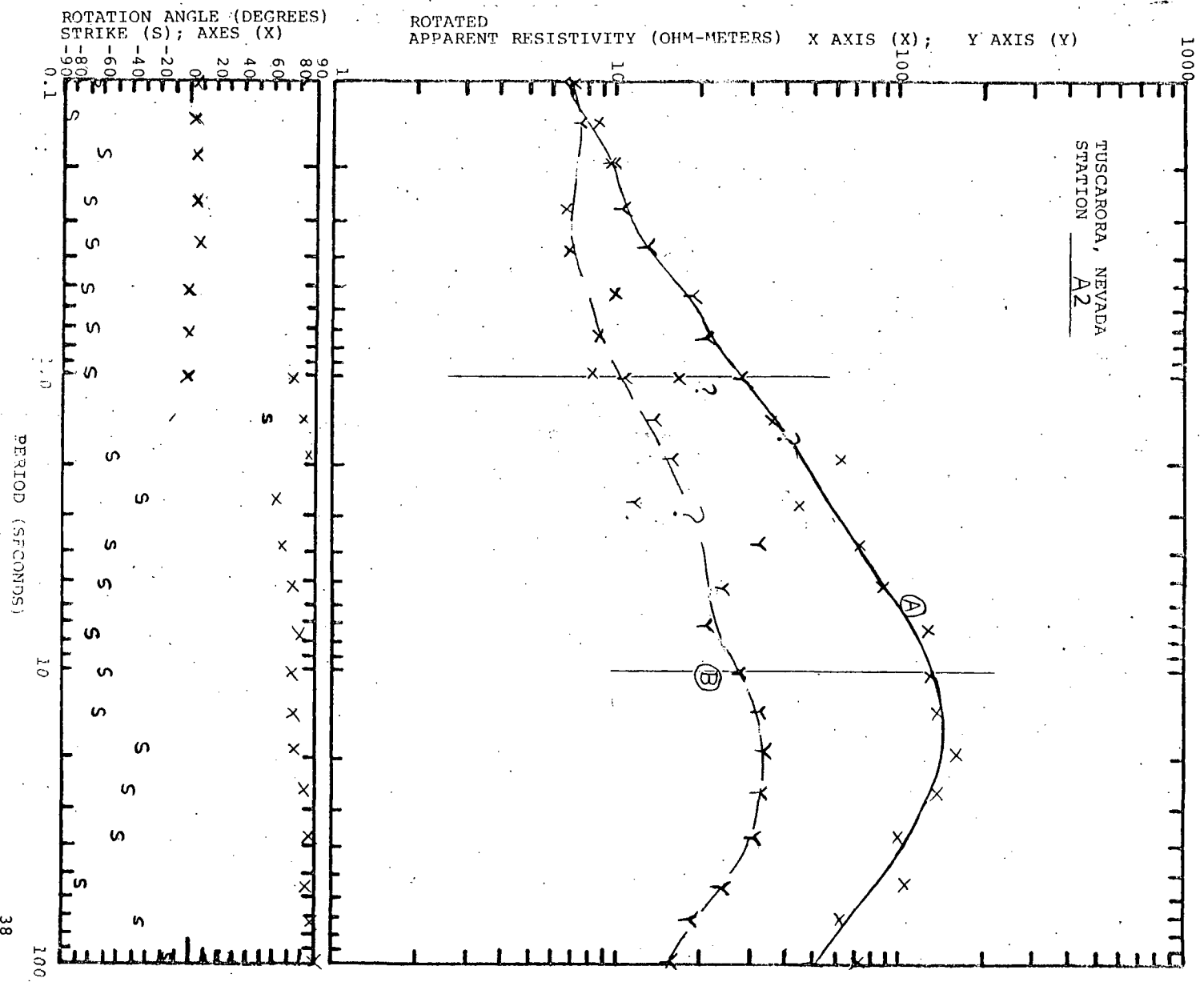


Fact 2
2.5 VS S-S

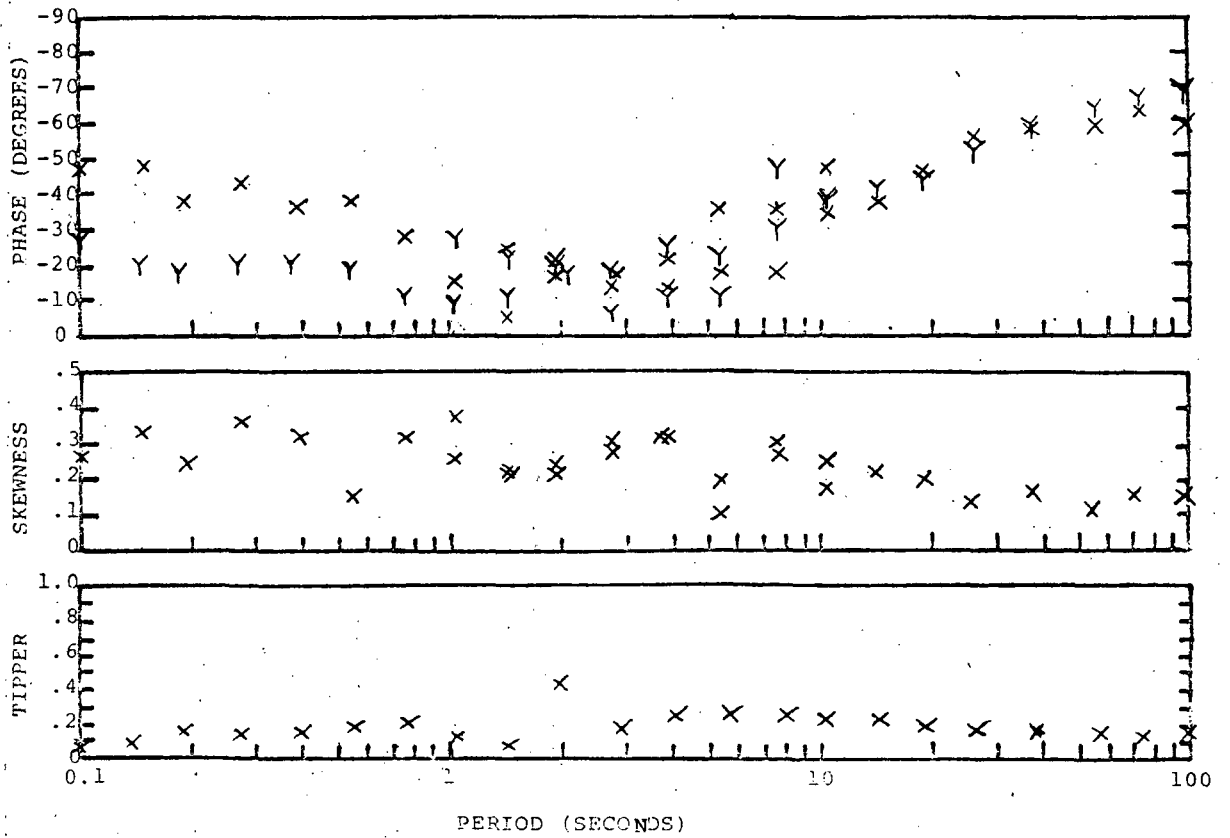


MESCARORA, NEVADA
 STATION M2

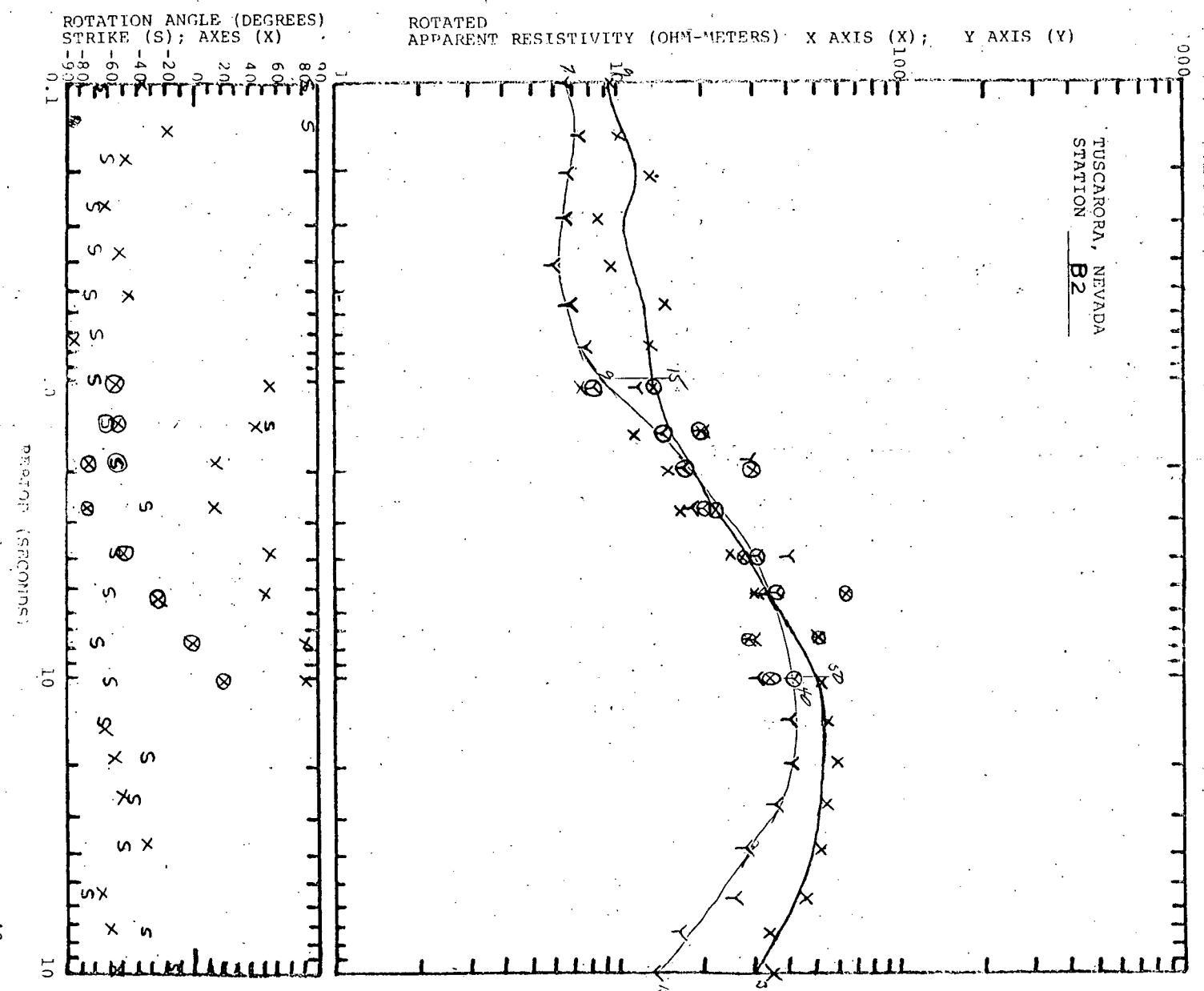




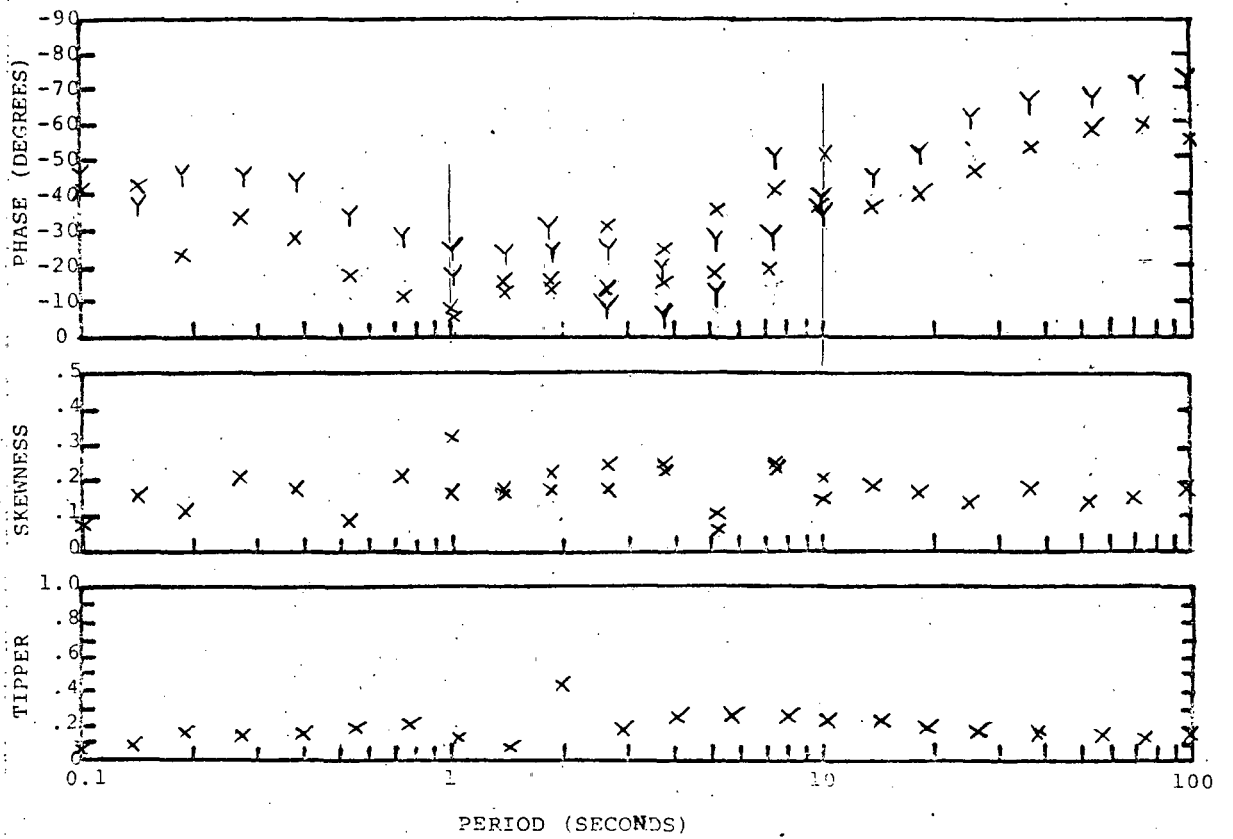
MUSCARORA, NEVADA
STATION A2



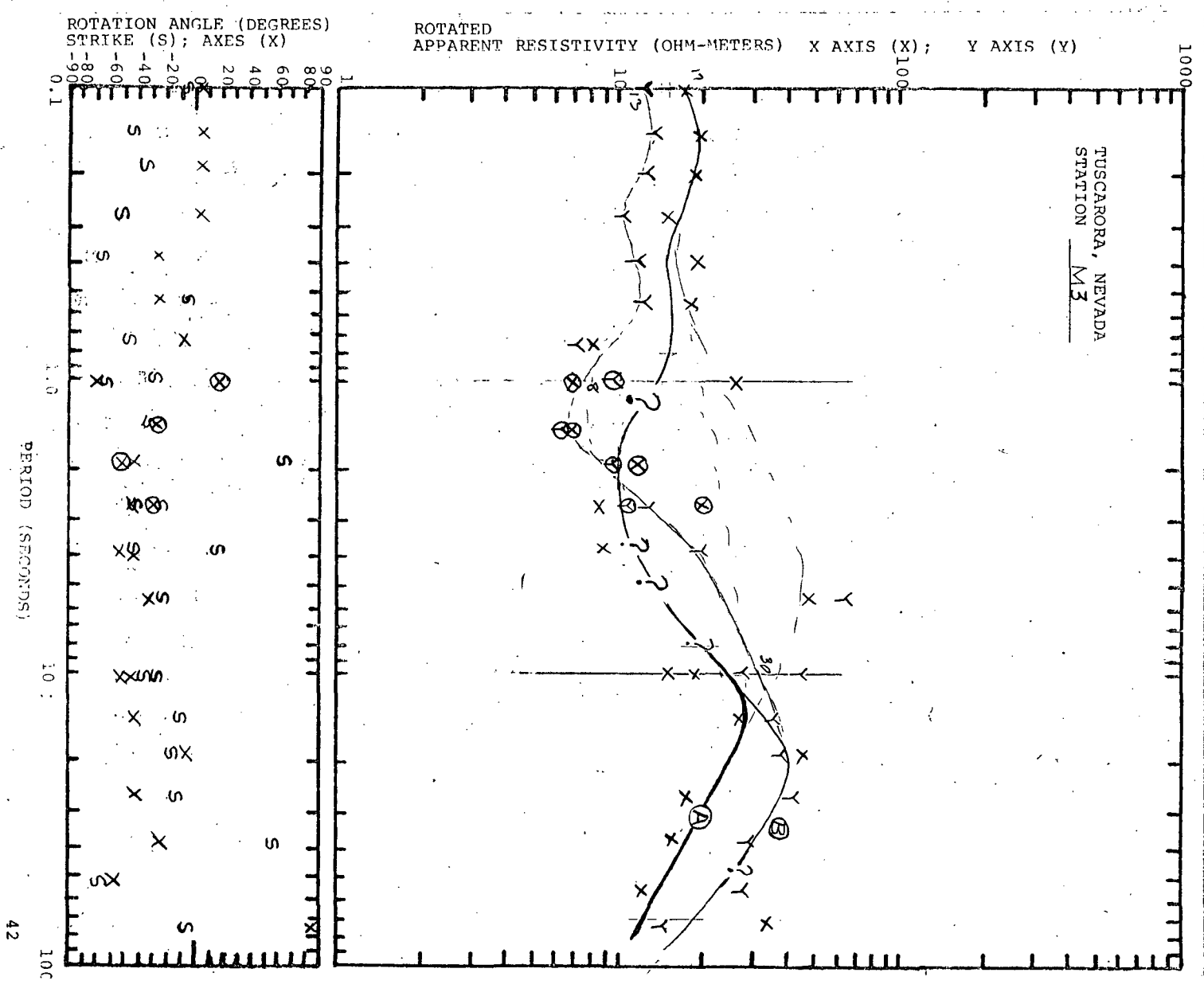
6.7 15.9.0
Foot 1.5



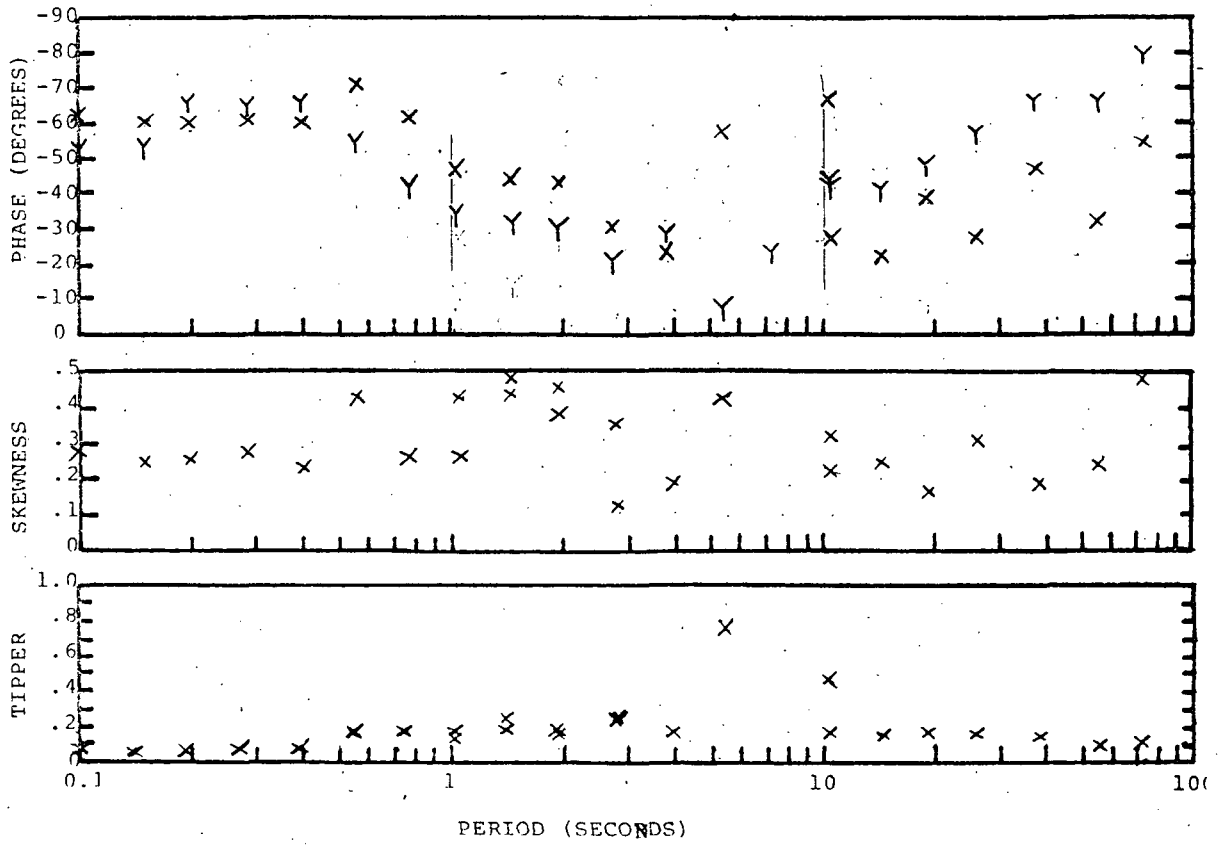
MISCARORA, NEVADA
STATION B2

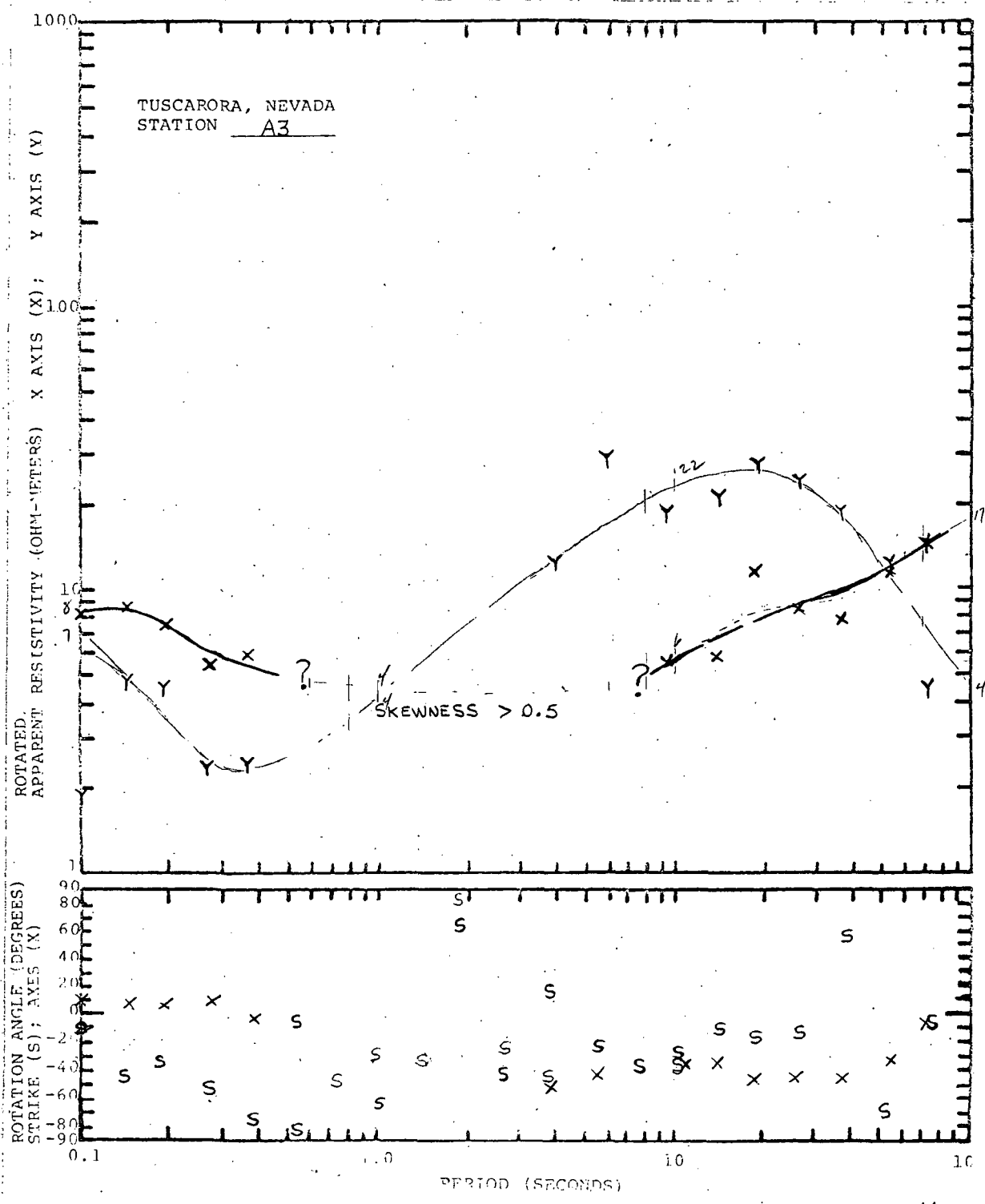


Page 12
14 vs 17

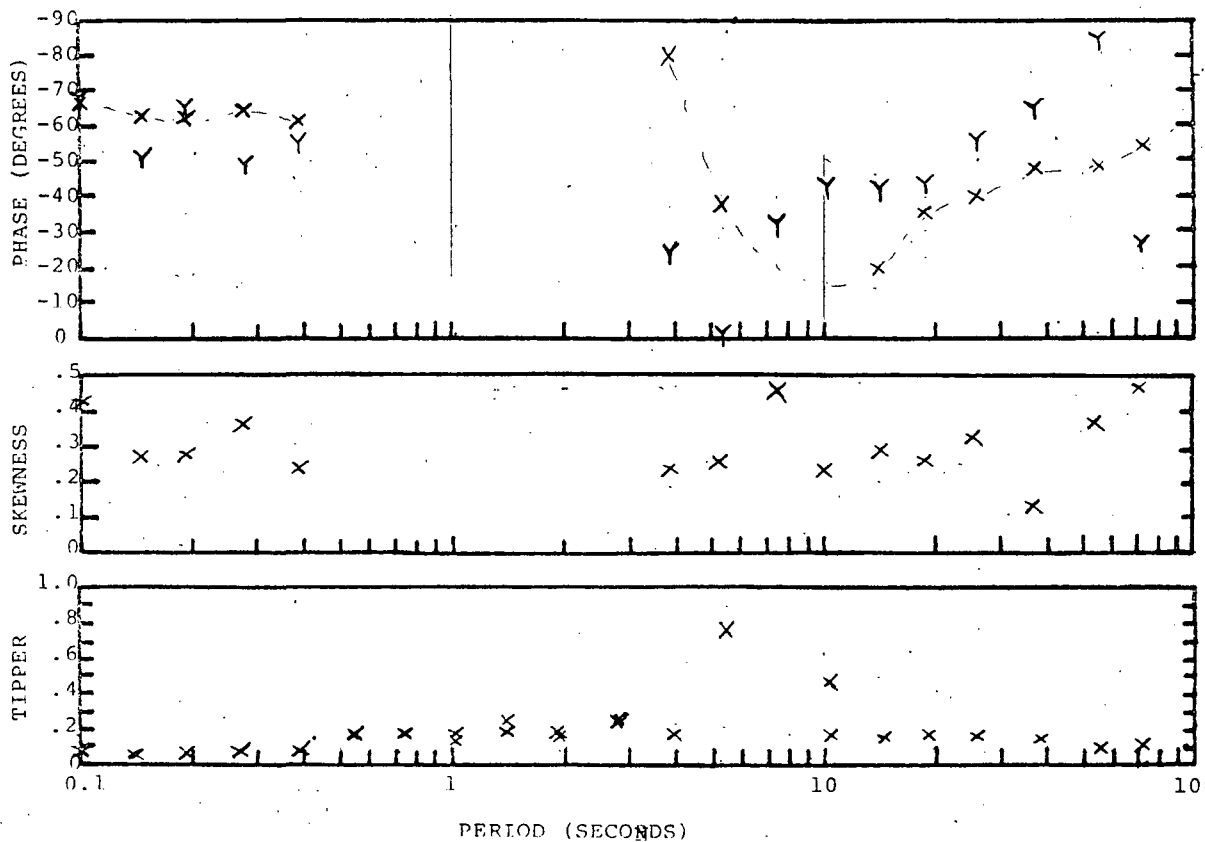


TUSCARORA, NEVADA
STATION M3

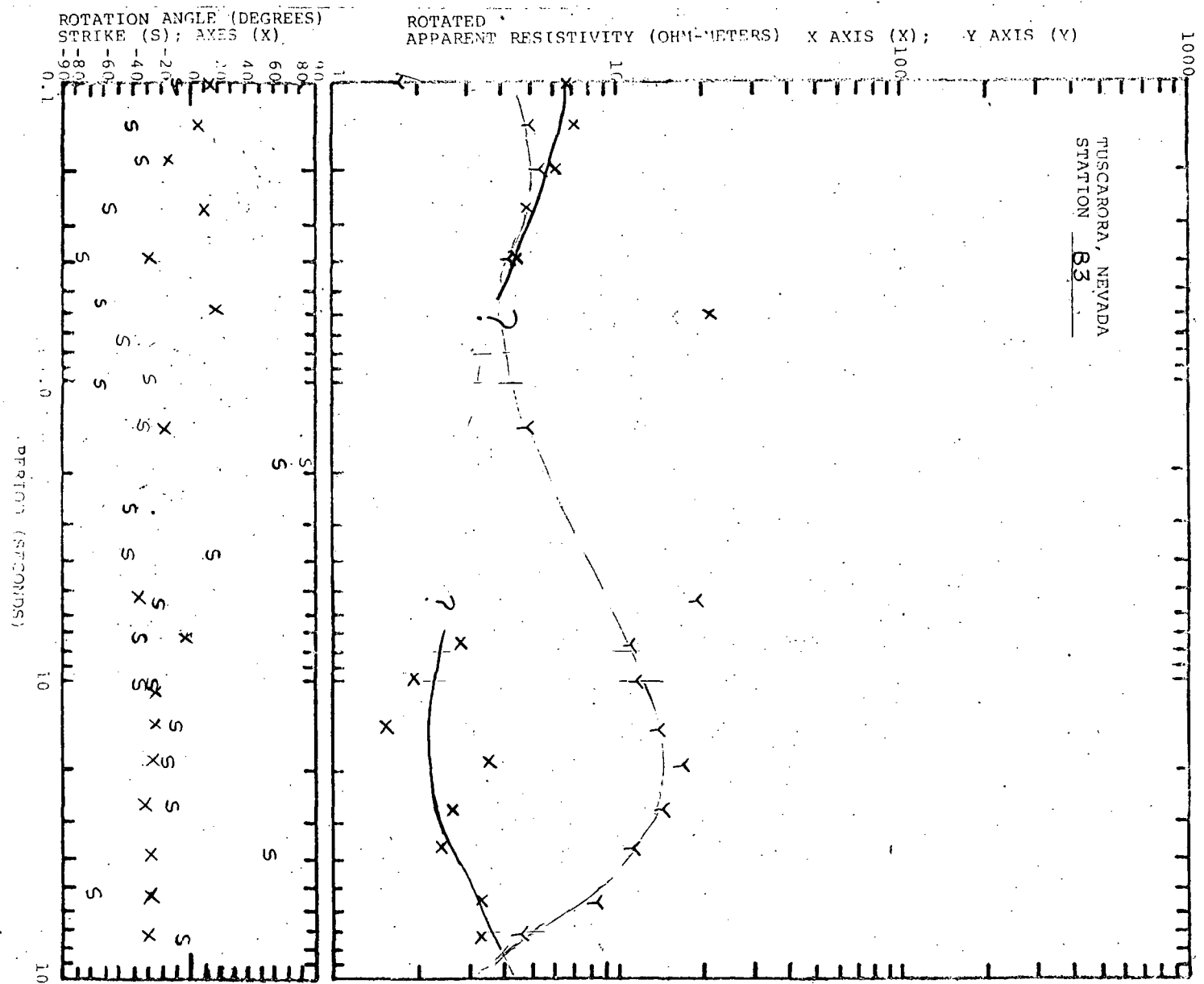




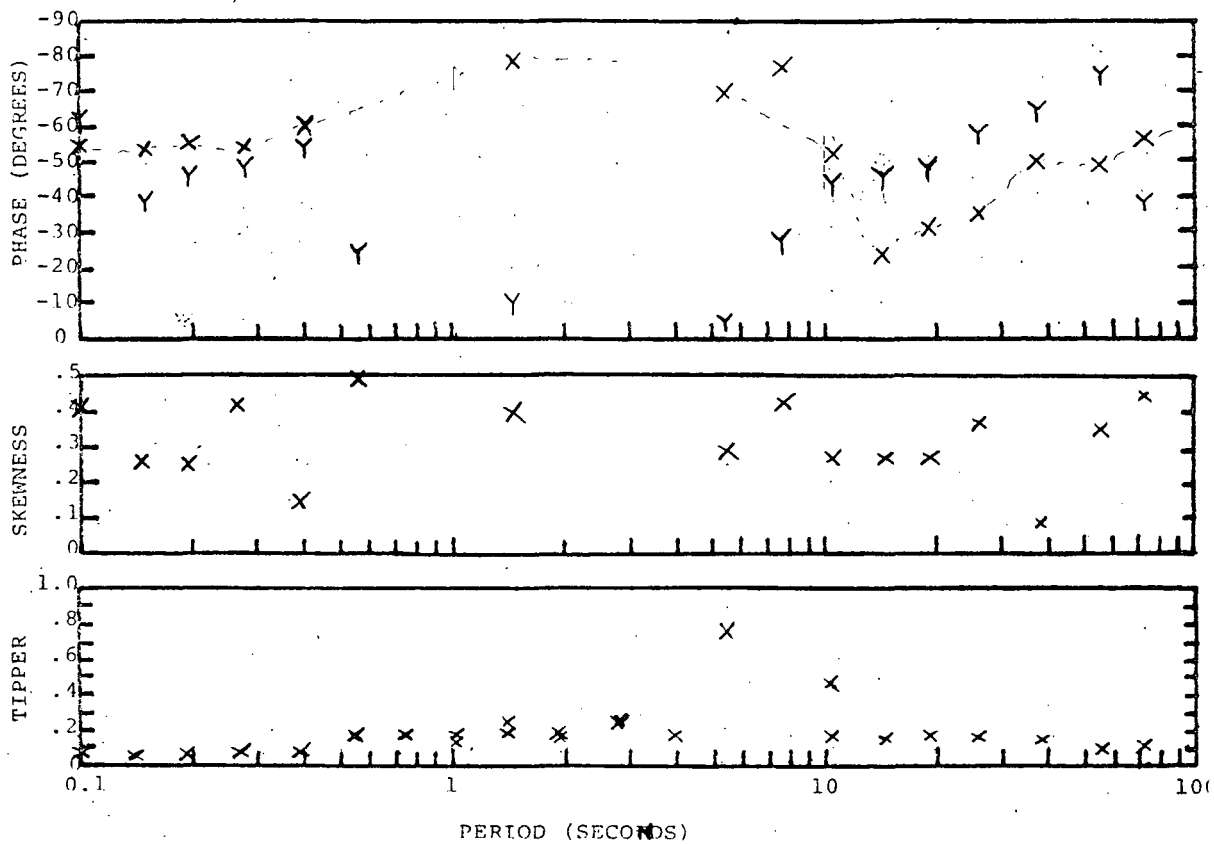
TUSCARORA, NEVADA
STATION A3



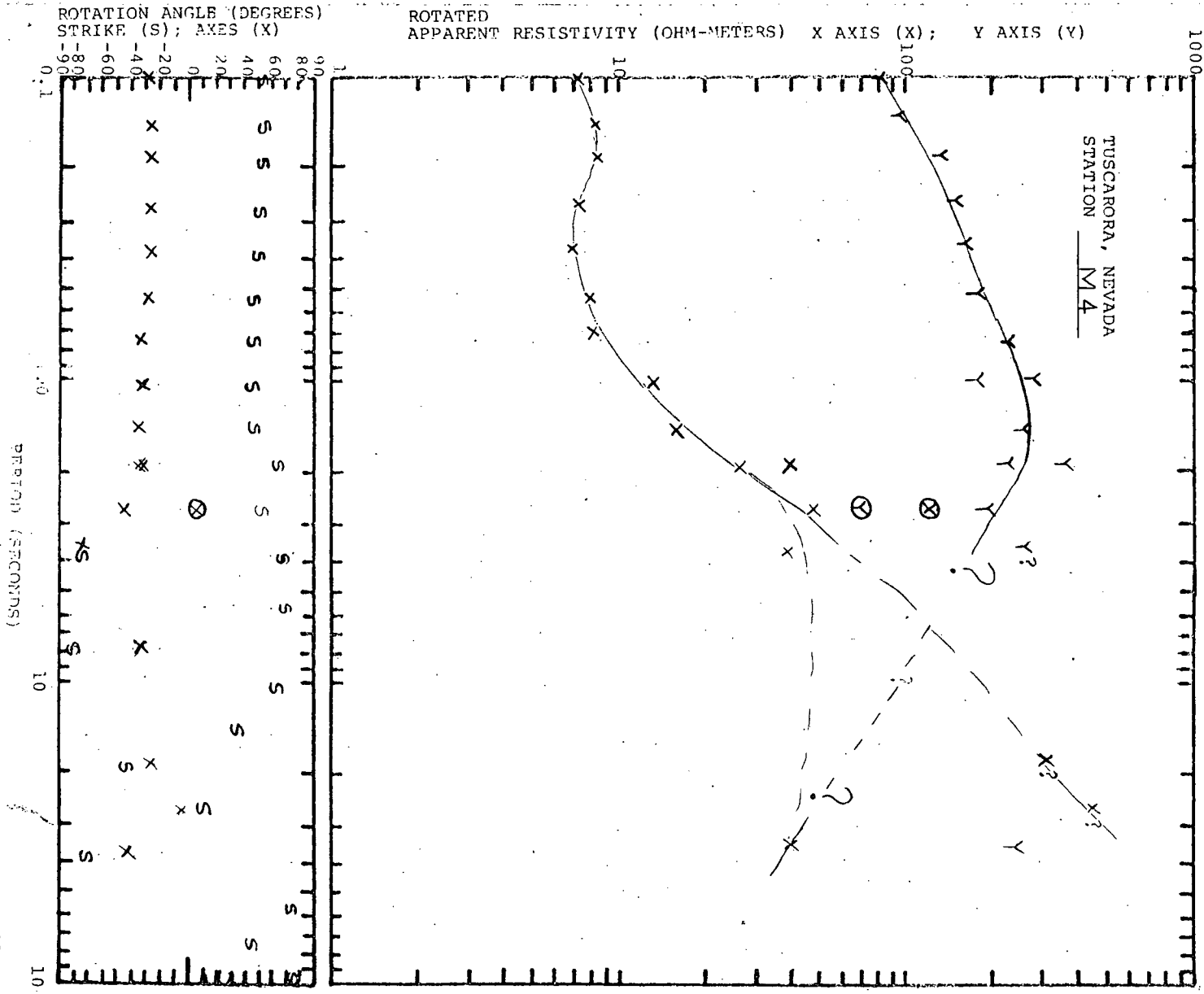
Fact 3-5
2 vs 7



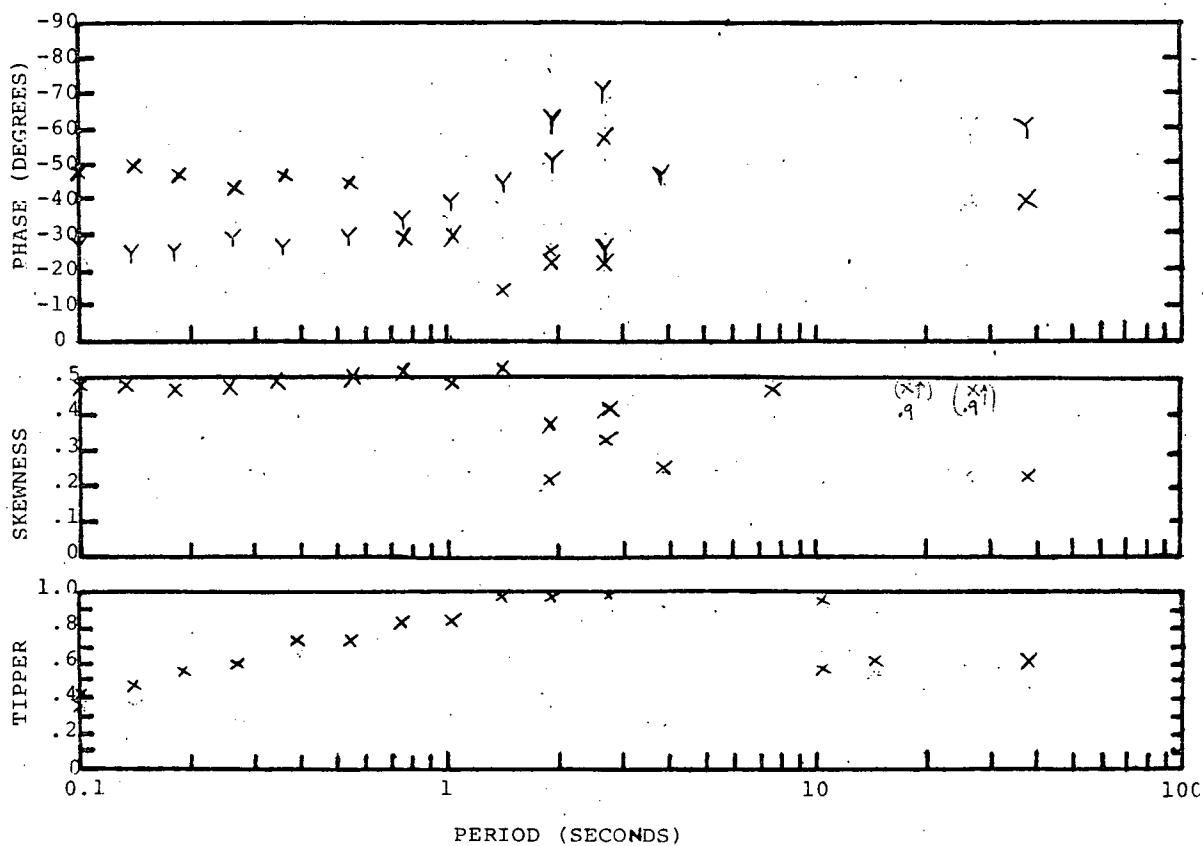
TUSCARORA, NEVADA
STATION B3



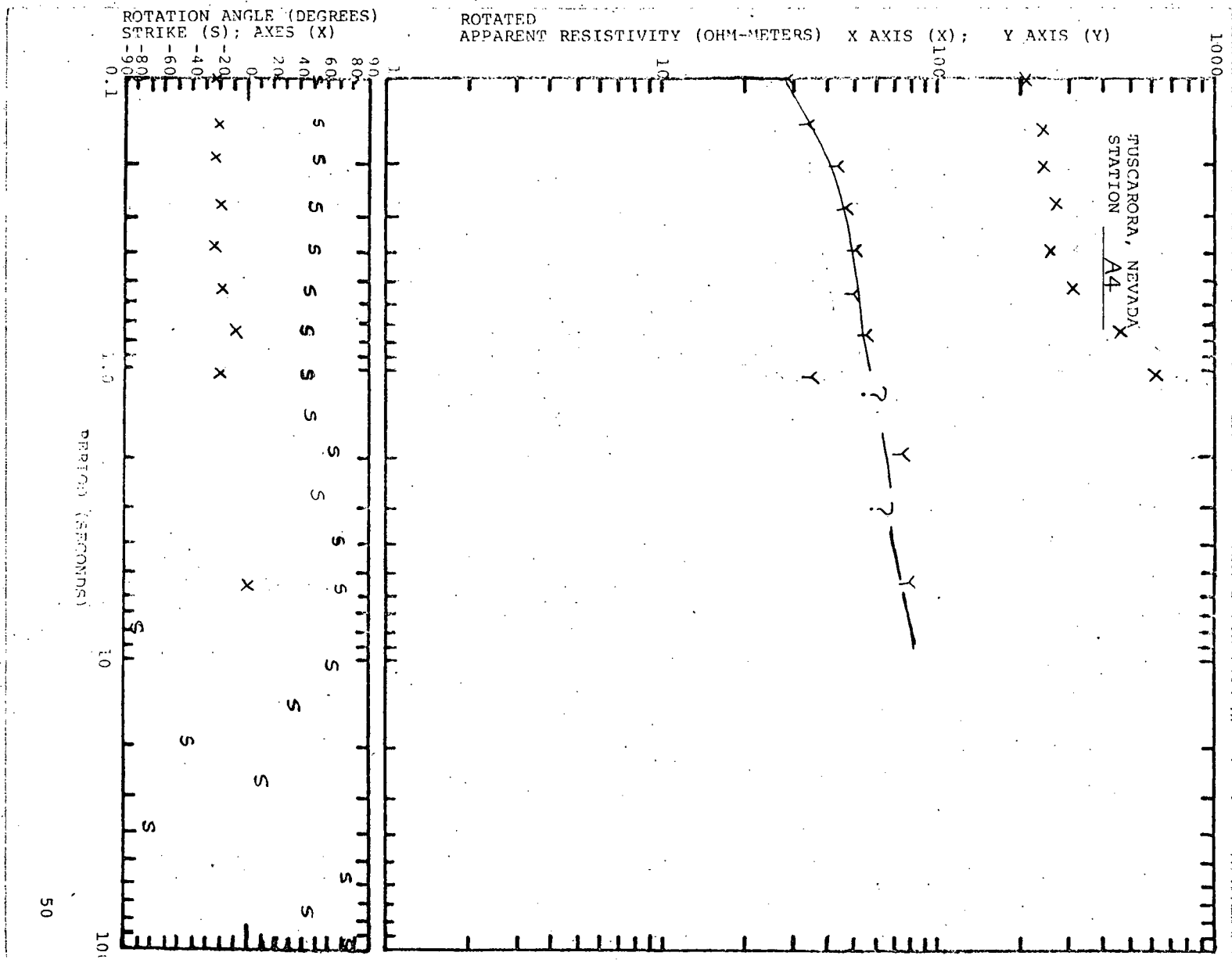
7 vs 80
1 mile long



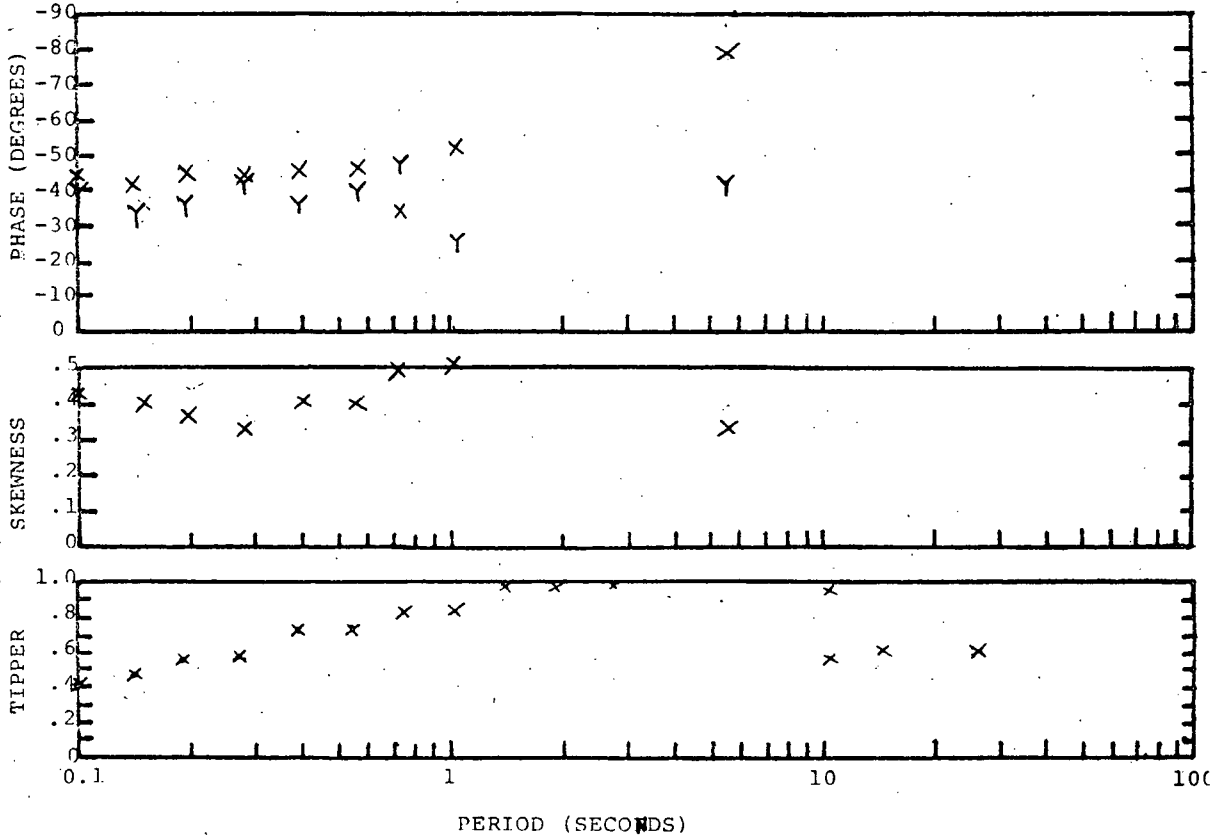
TUSCARORA, NEVADA
 STATION M4



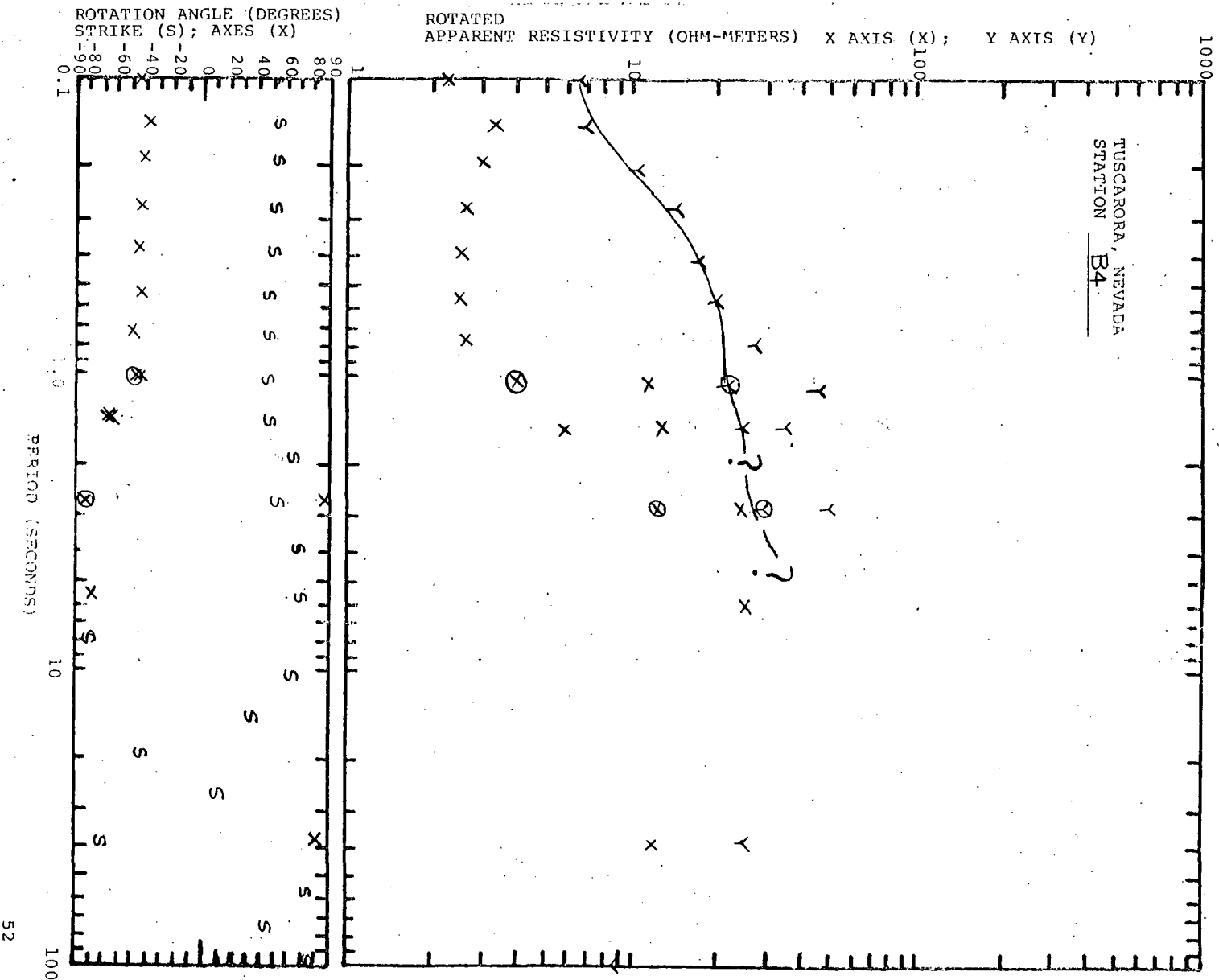
30 vs. 200
Fac. 7



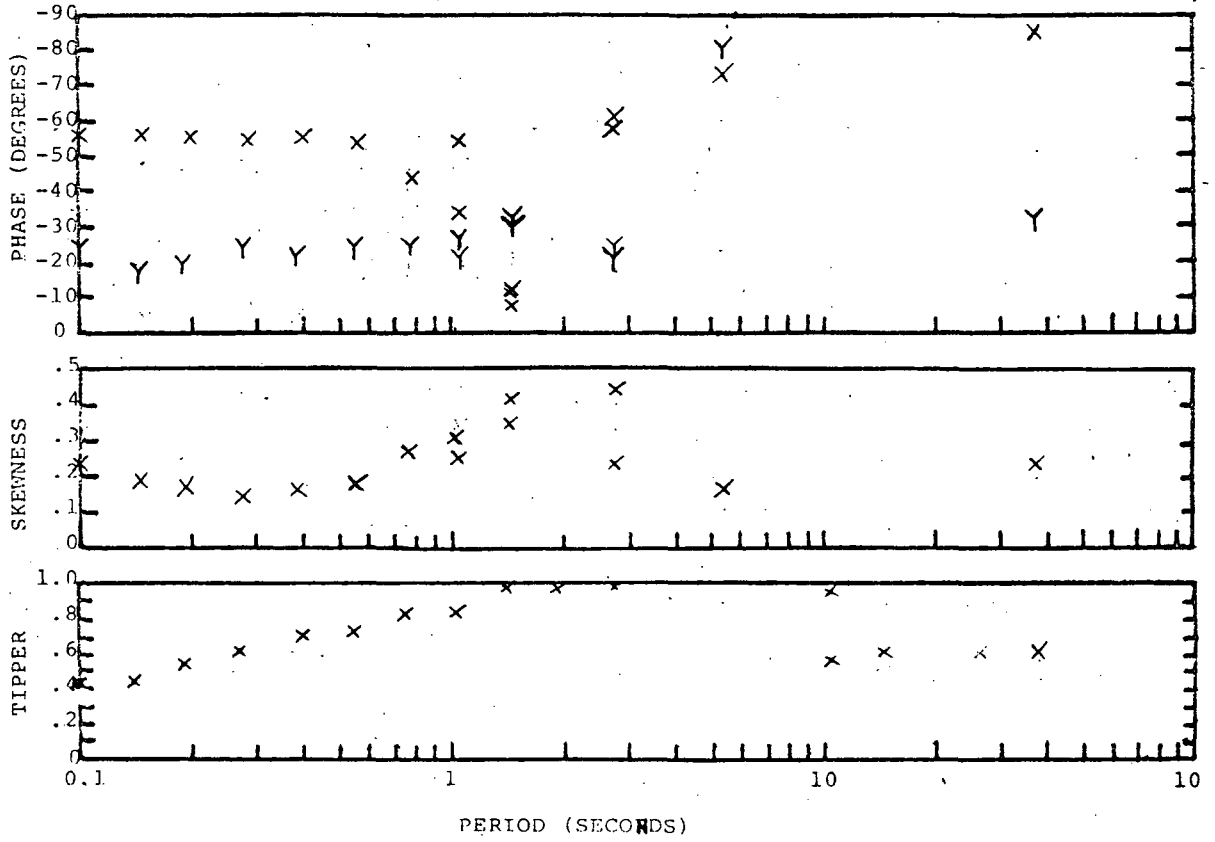
TUSCARORA, NEVADA
 STATION A4.



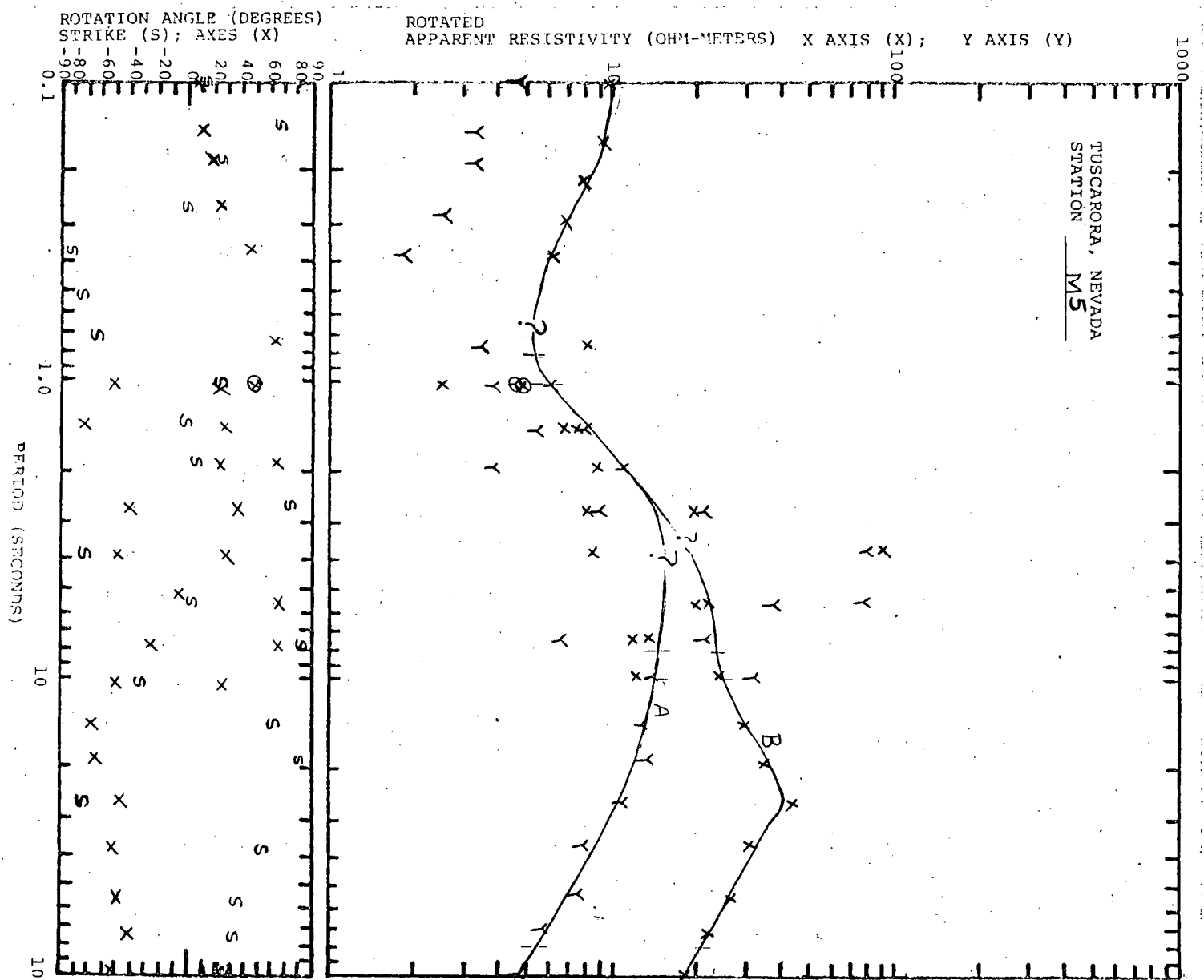
2 vs 6
Feet 3



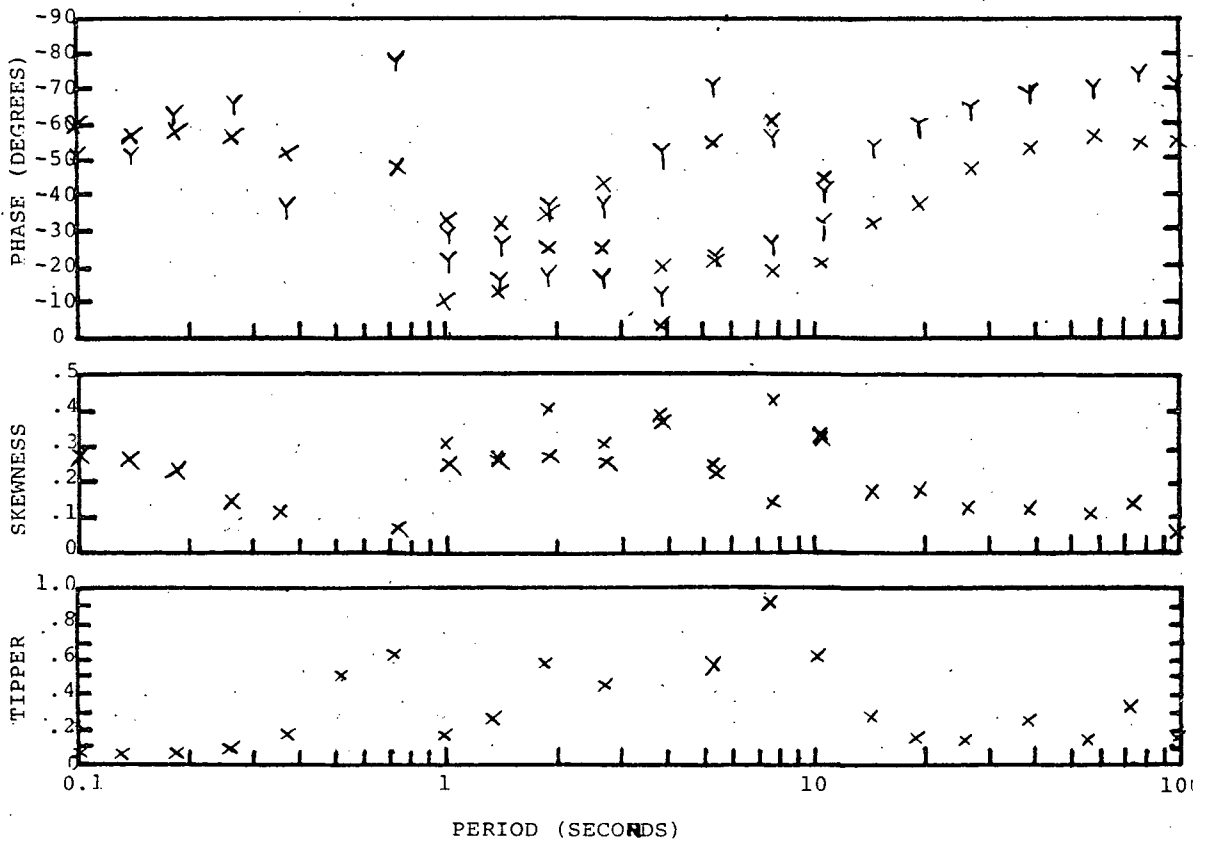
TUSCARORA, NEVADA
 STATION B4



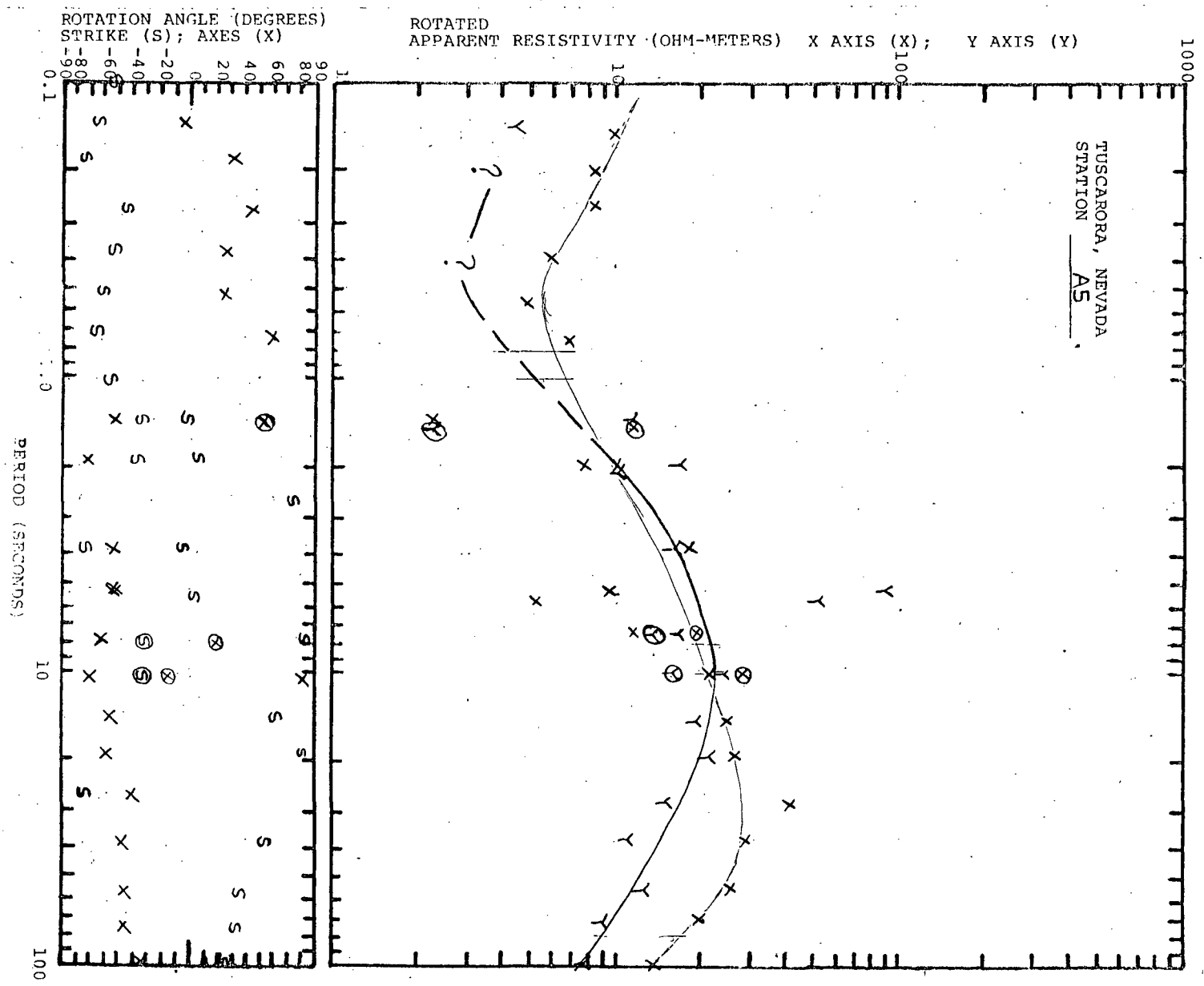
Fact 2
S vs. I.D



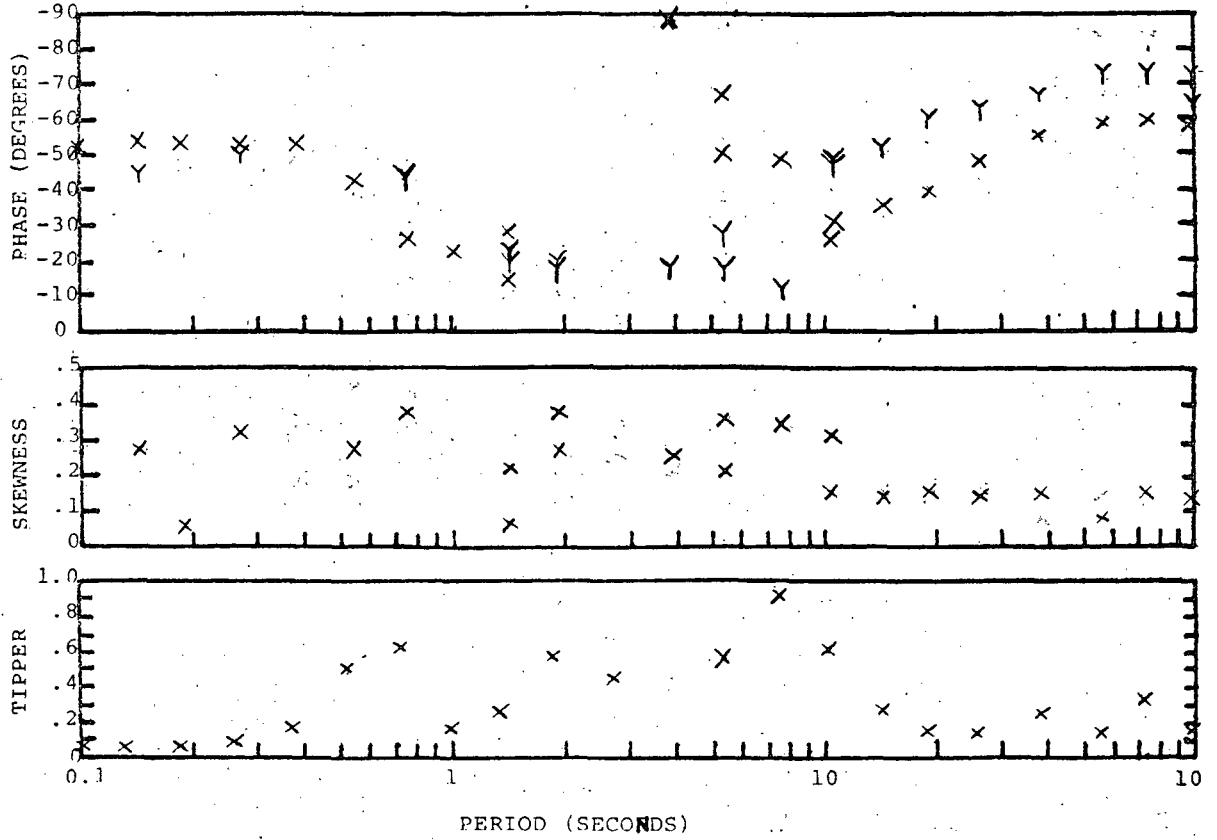
TUSCARORA, NEVADA
STATION M5



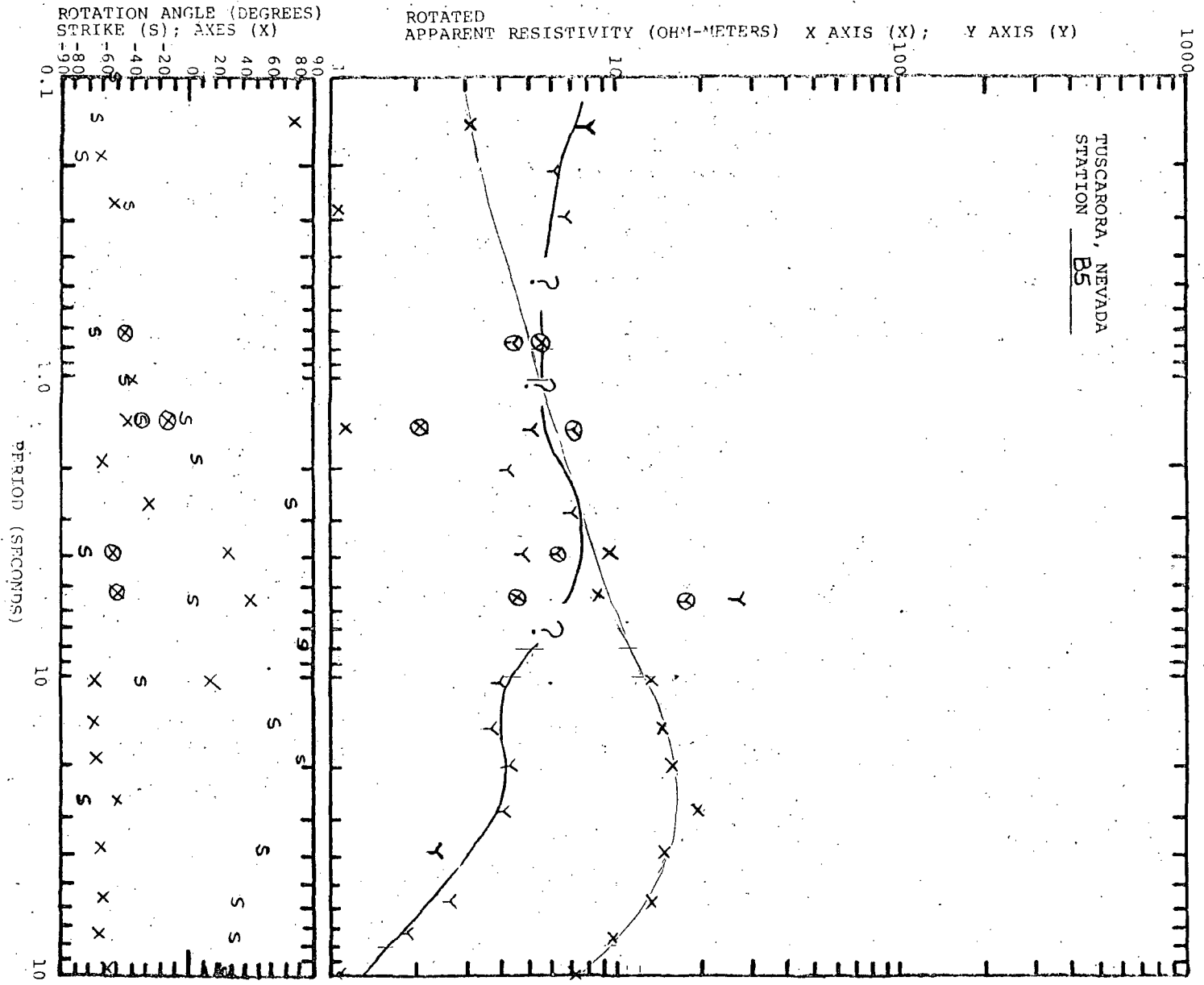
*Fact 3
5 vs. 15*



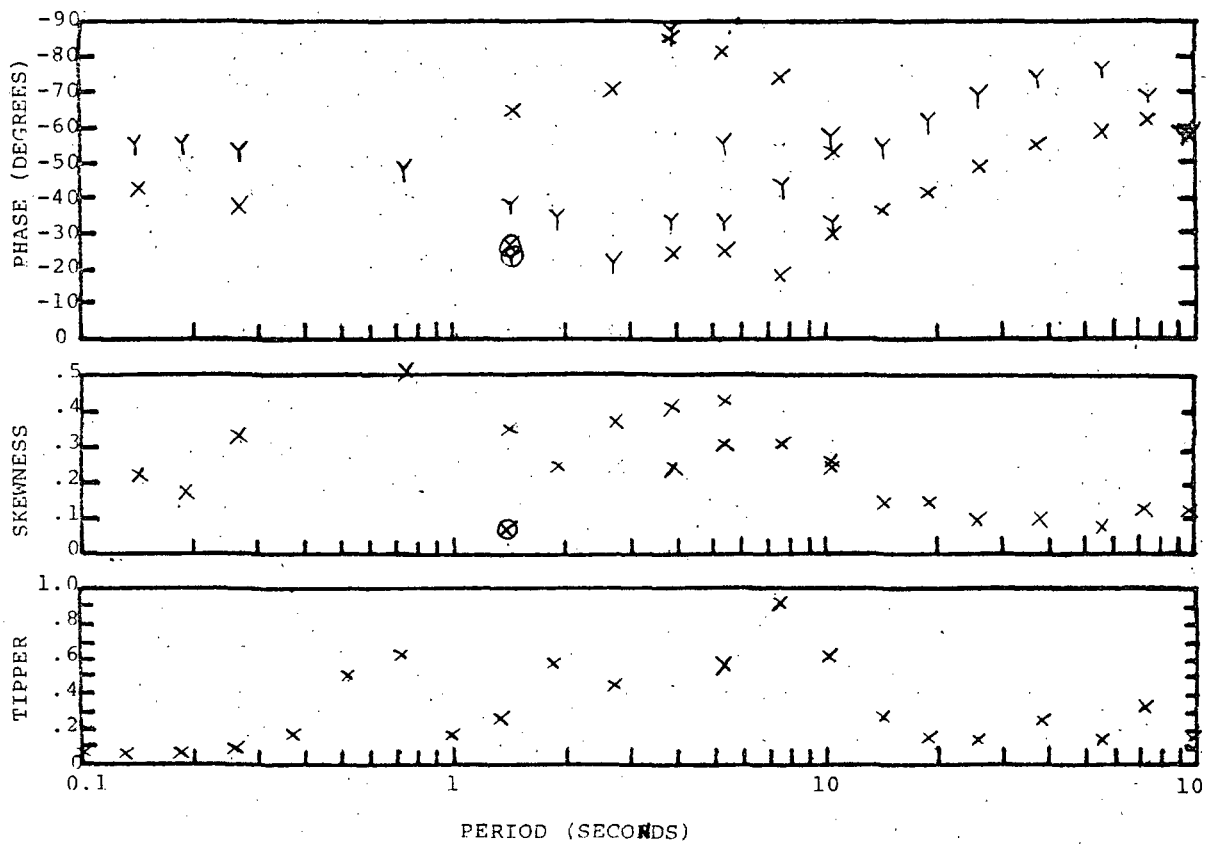
TUSCARORA, NEVADA
STATION A5



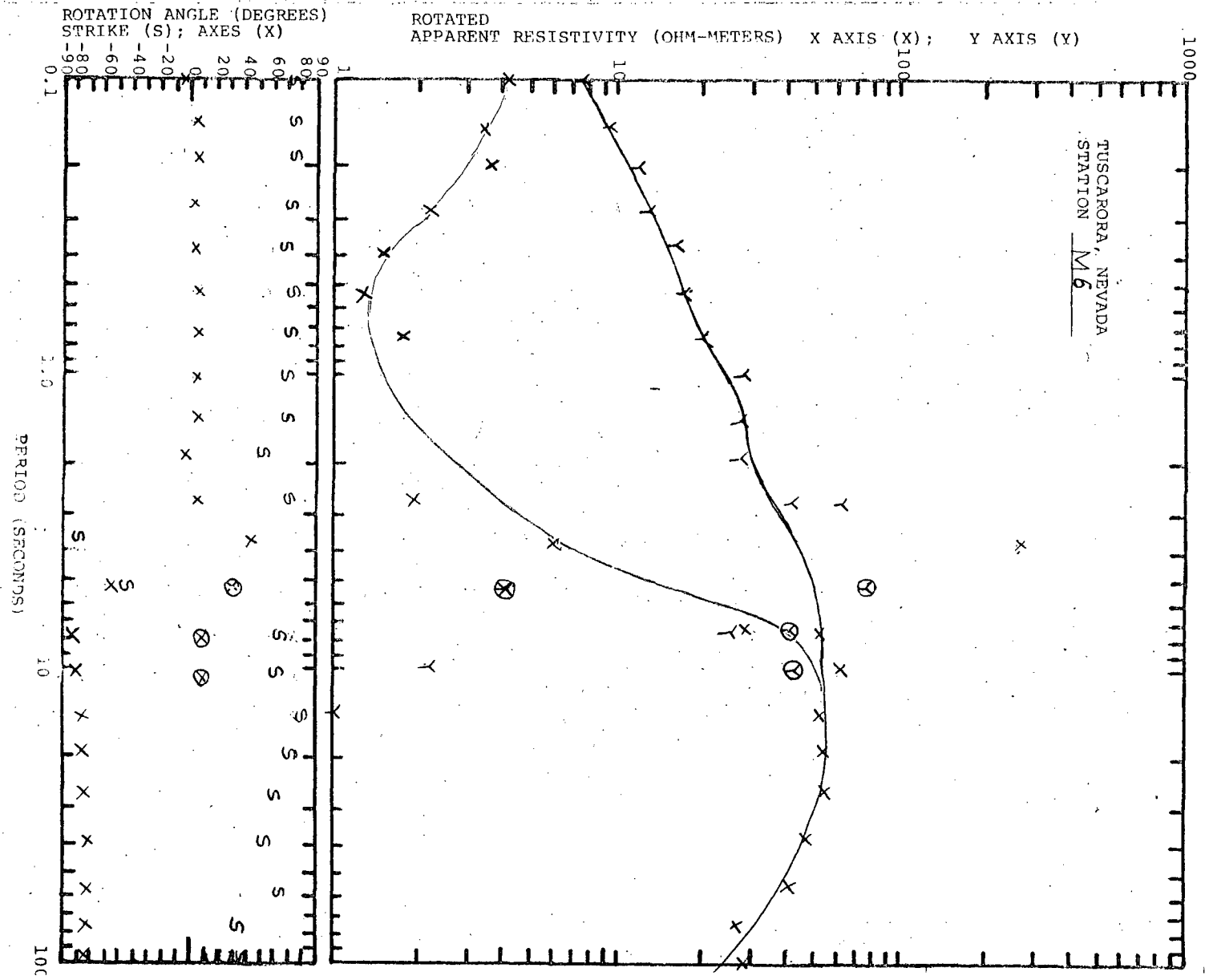
Fac 2.6
3/15/8



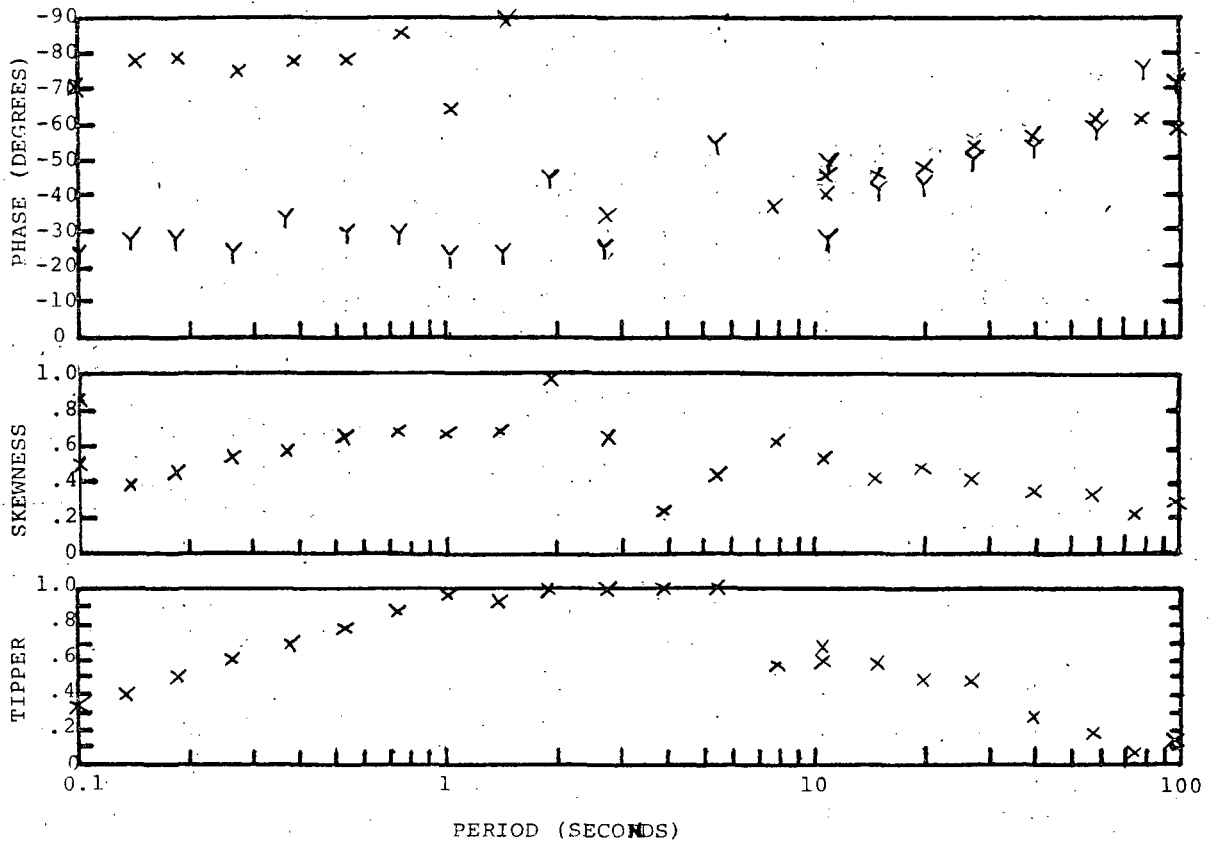
TUSCARORA, NEVADA
STATION B5



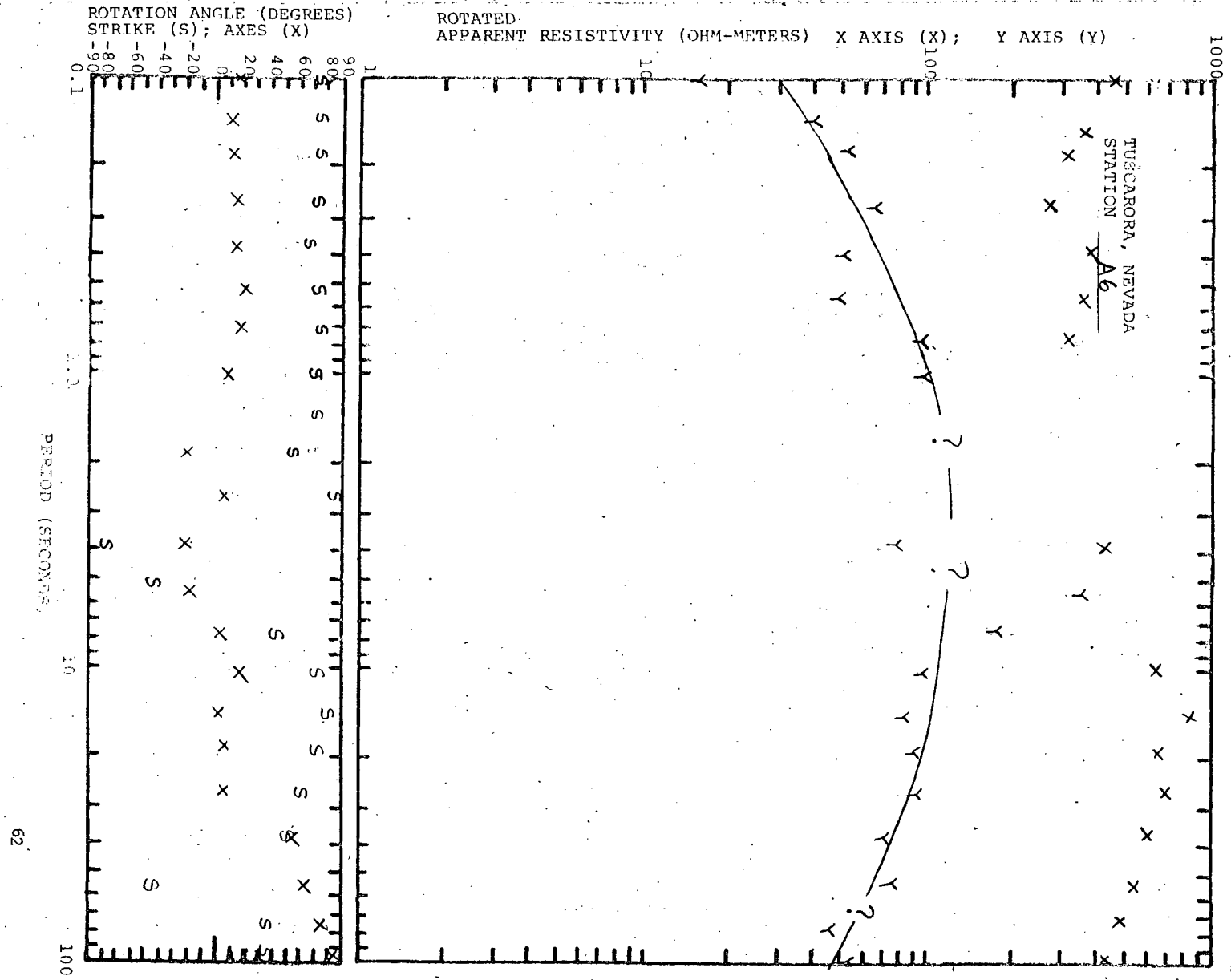
fact 2
4 vs. 8



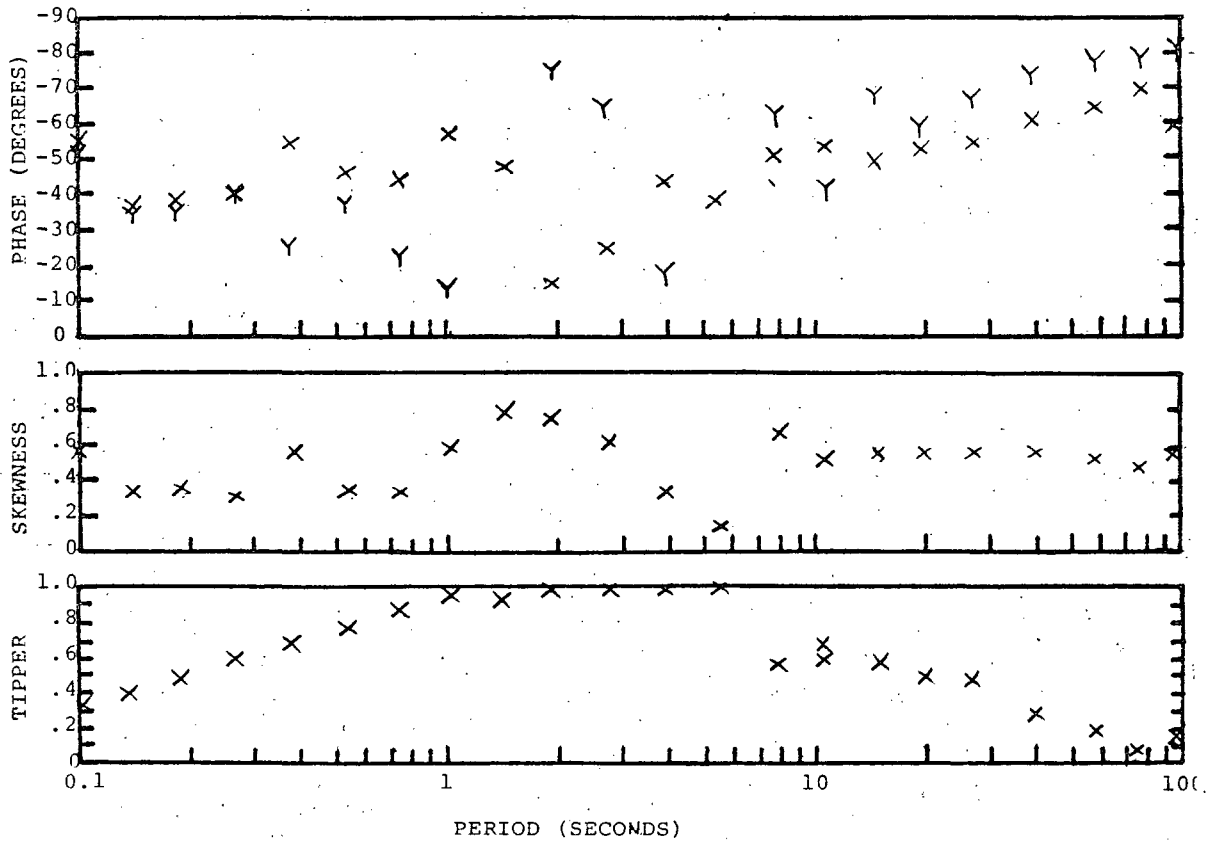
TUSCARORA, NEVADA
STATION M6



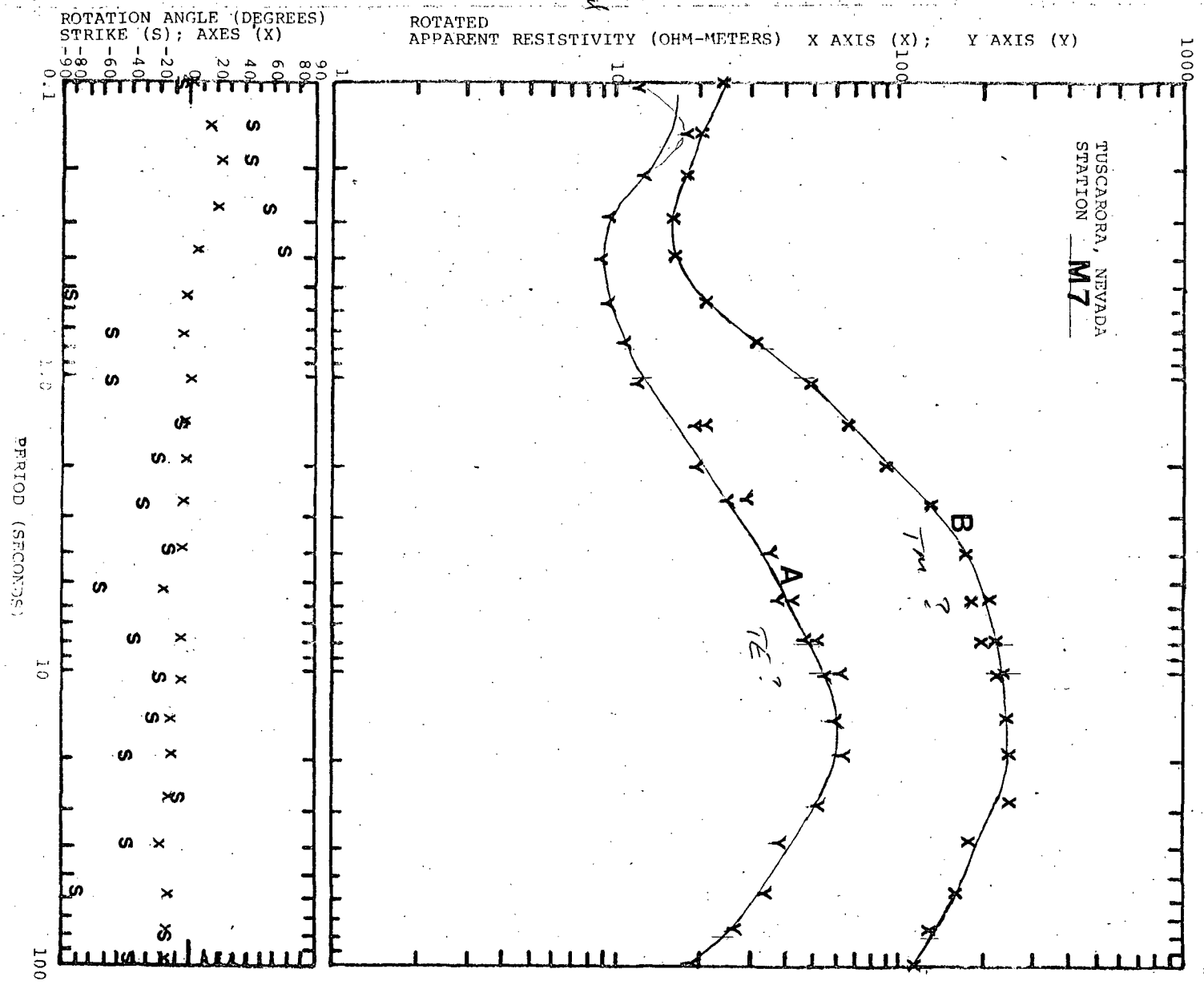
3015-450
1/15 Nelson Hwy



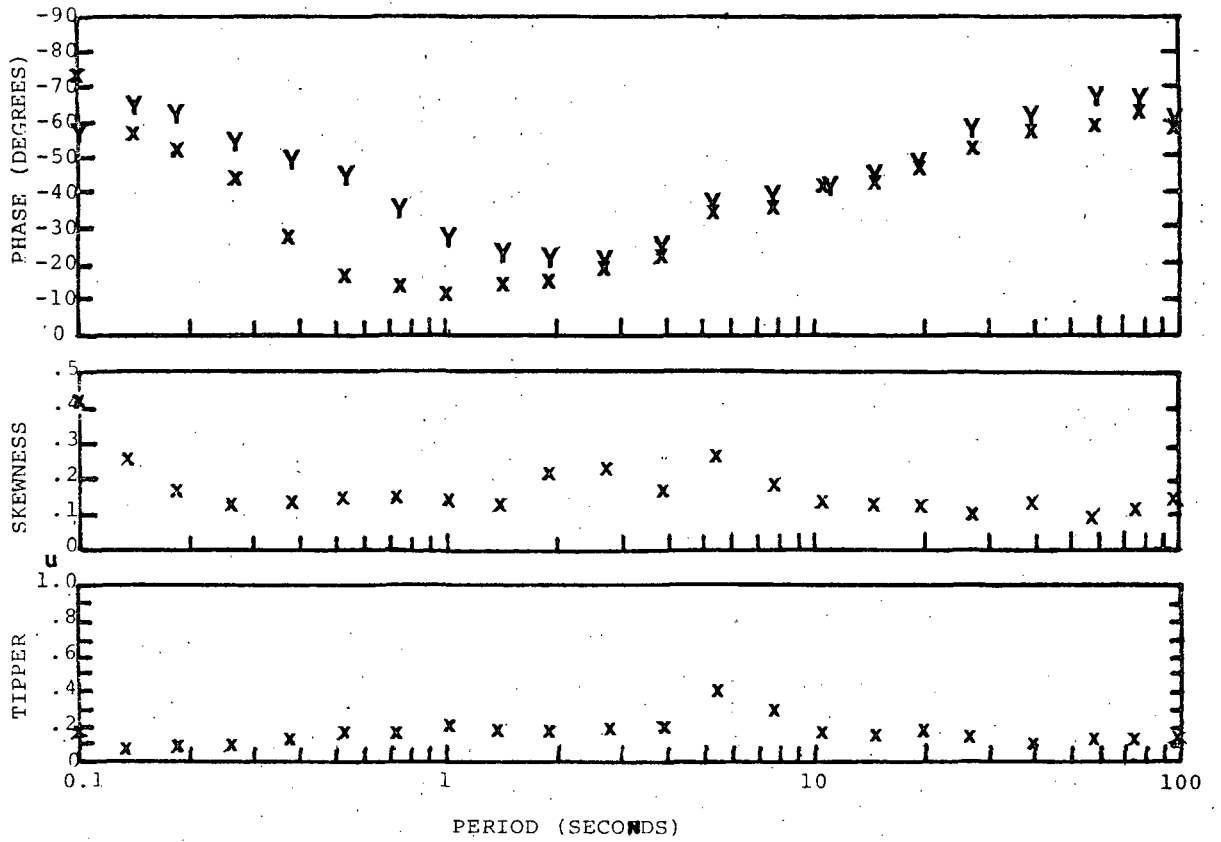
TUSCARORA, NEVADA
STATION A6



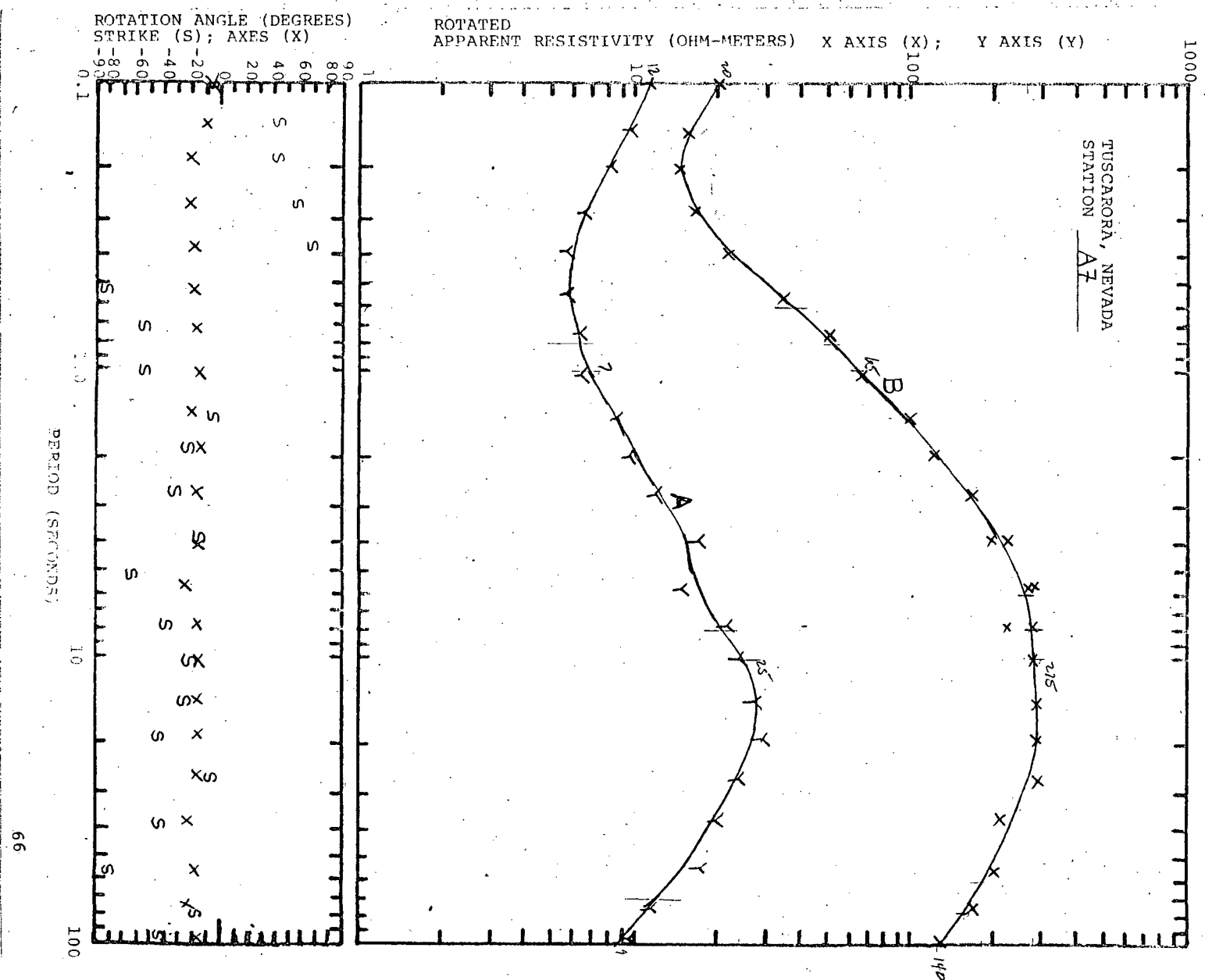
Fac 2
12-15-24



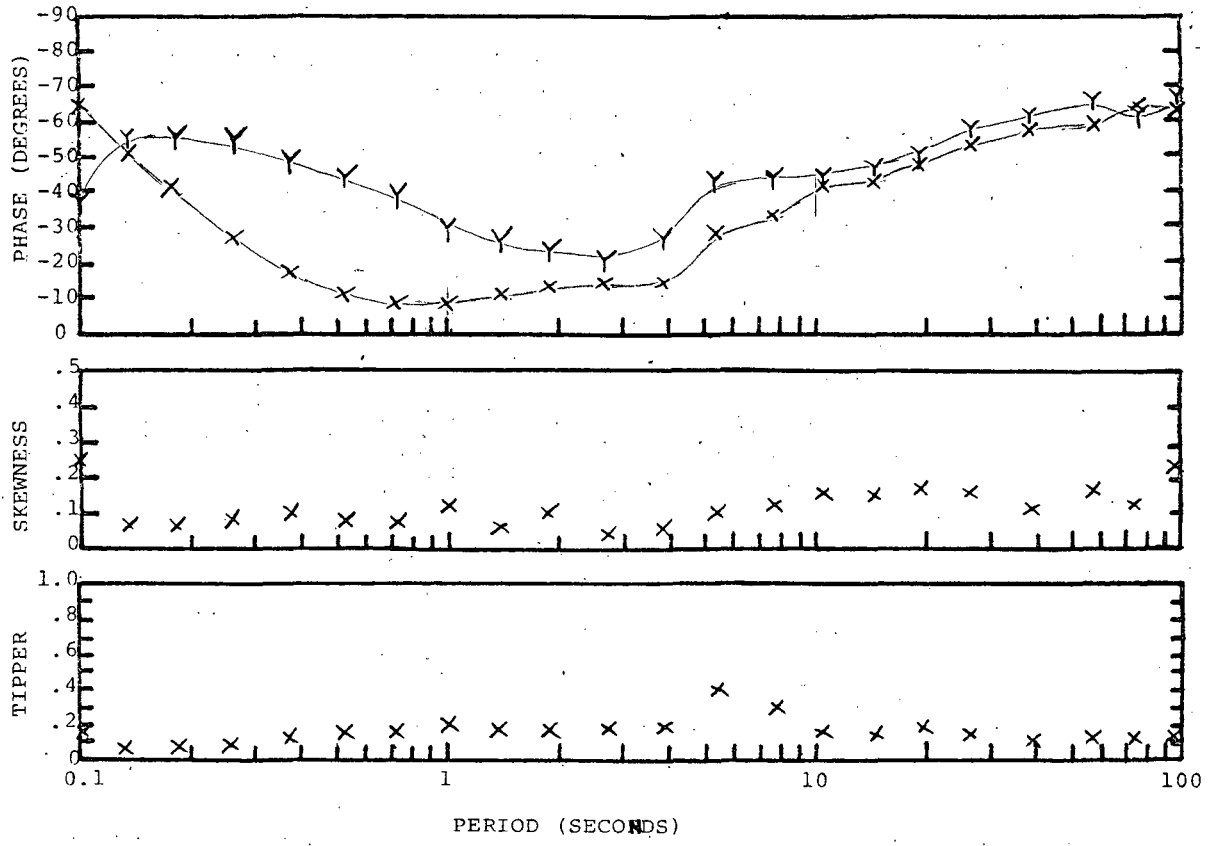
TUSCARORA, NEVADA
 STATION M7



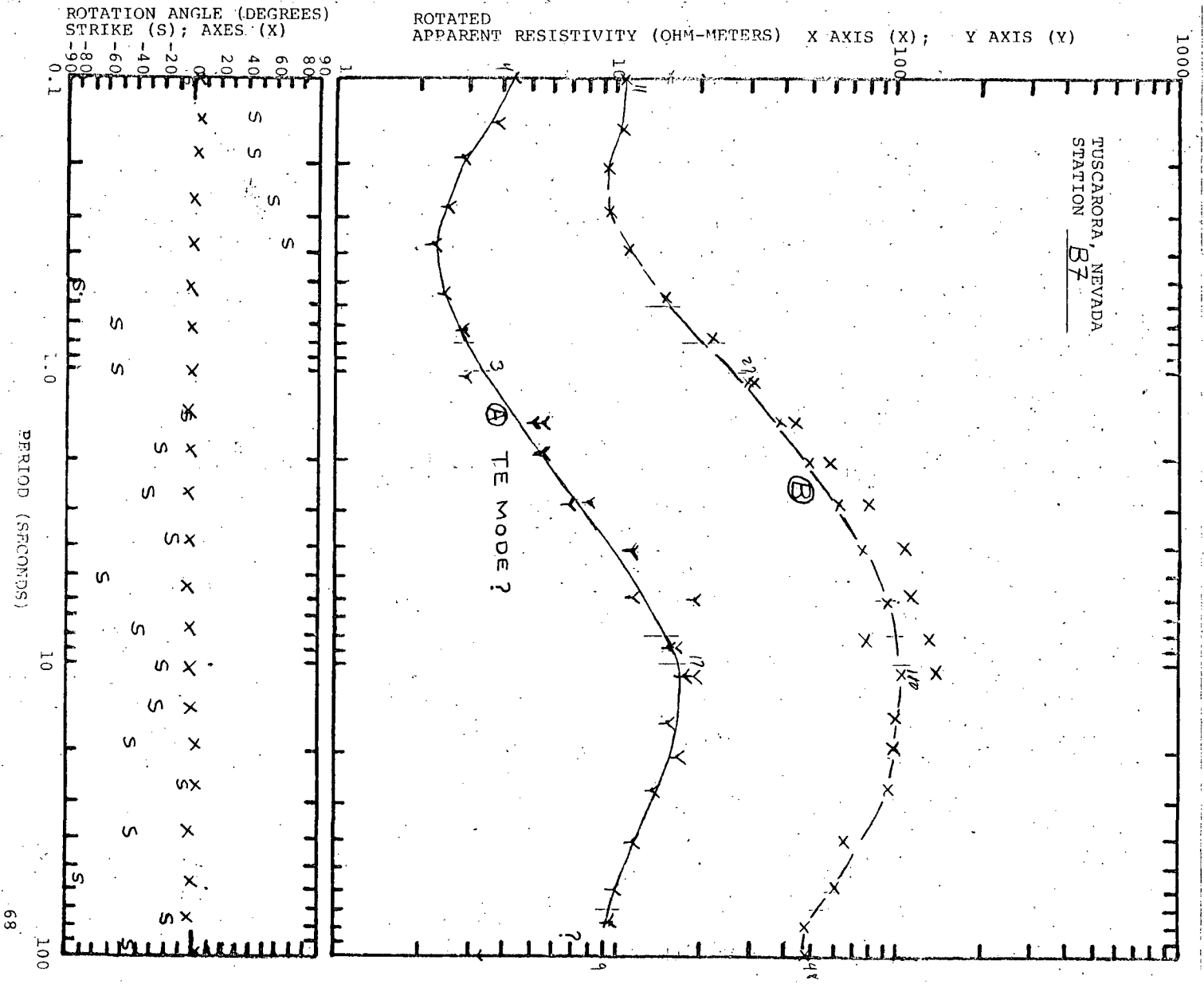
Page 2
12-15-20



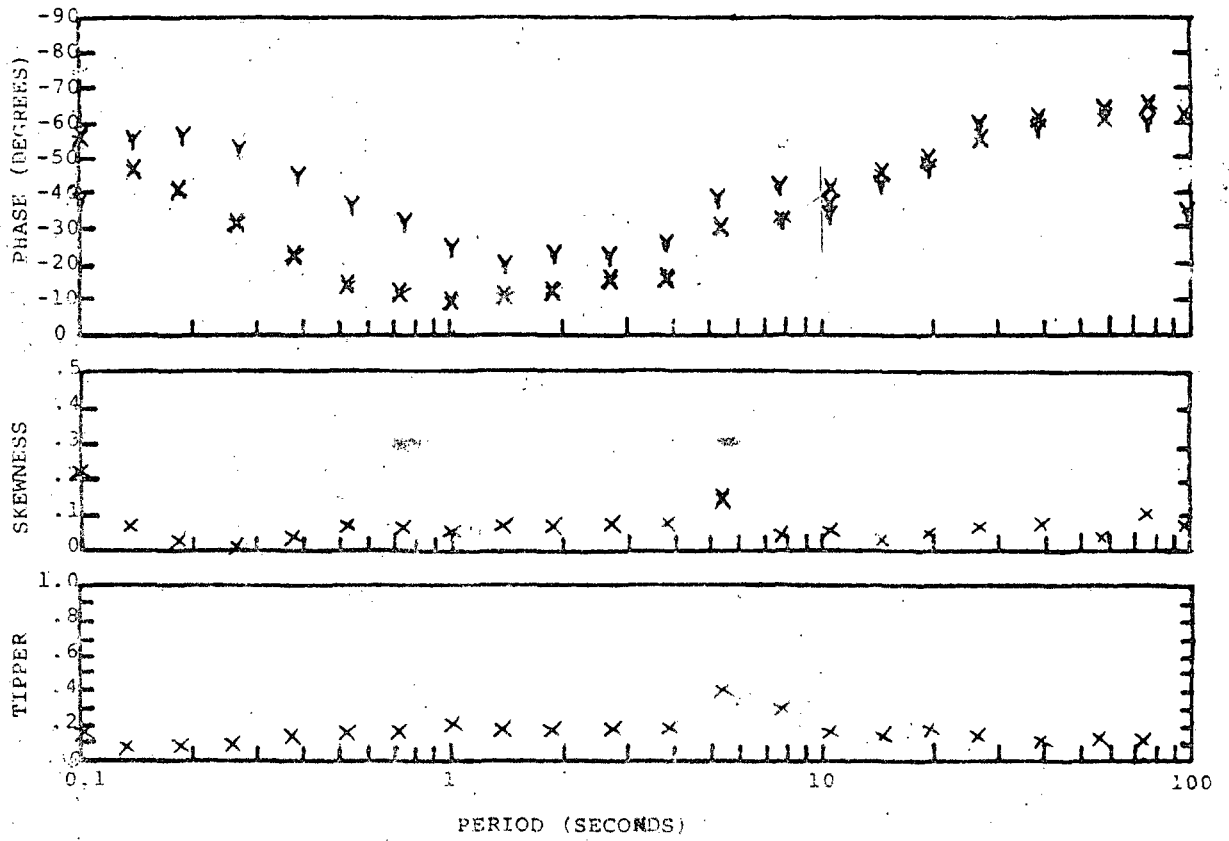
TUSCARORA, NEVADA
STATION A7



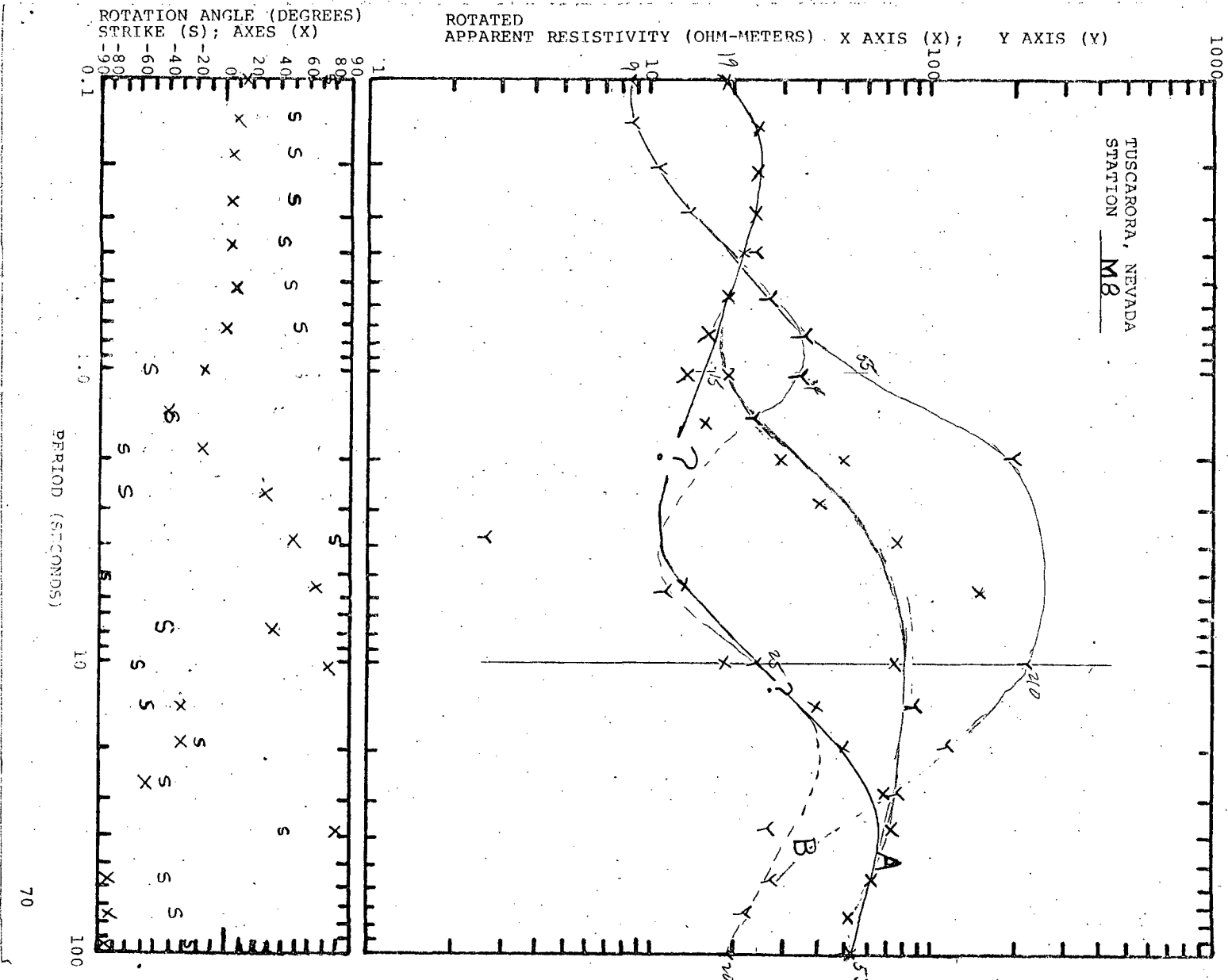
Sheet 3
4 vs. 14



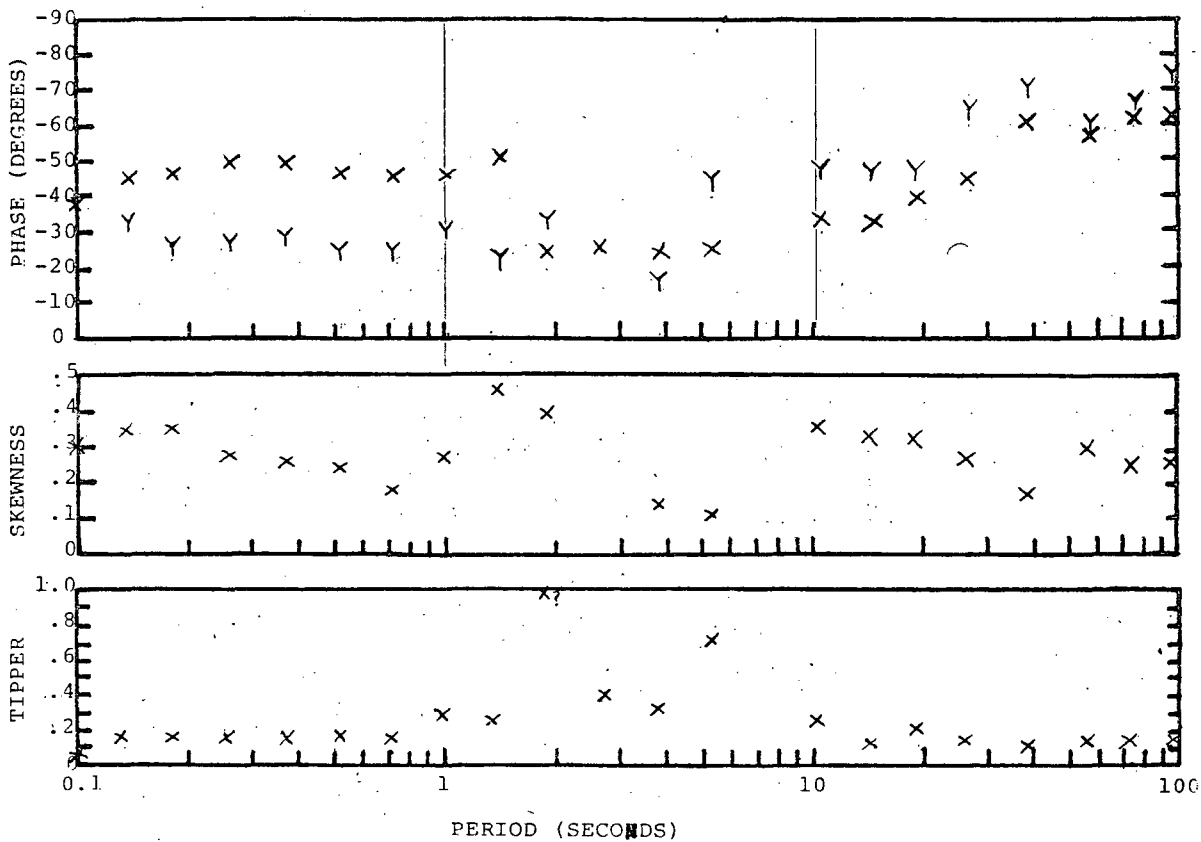
TUSCARORA, NEVADA
STATION B7



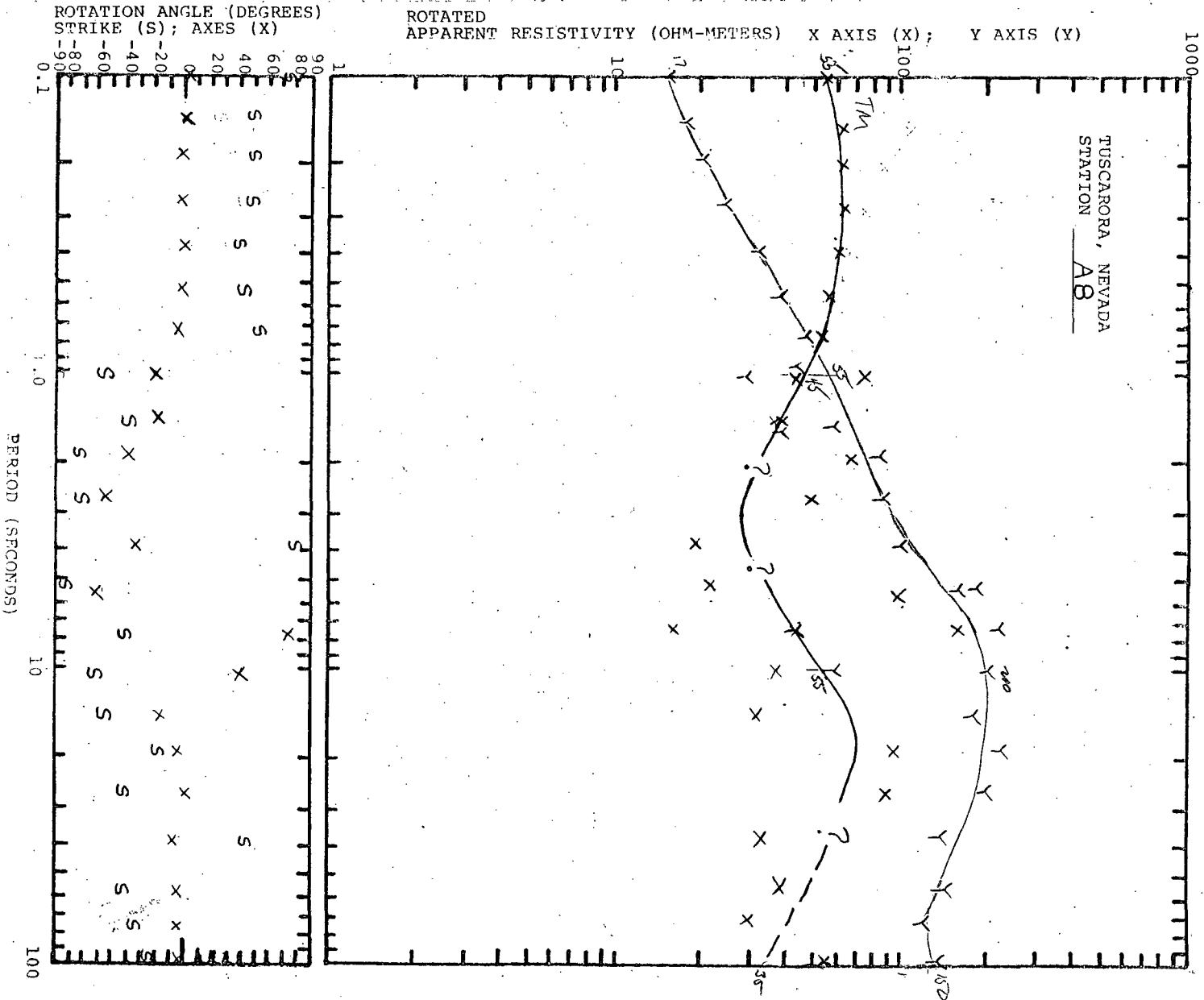
Page 2
9-13-19



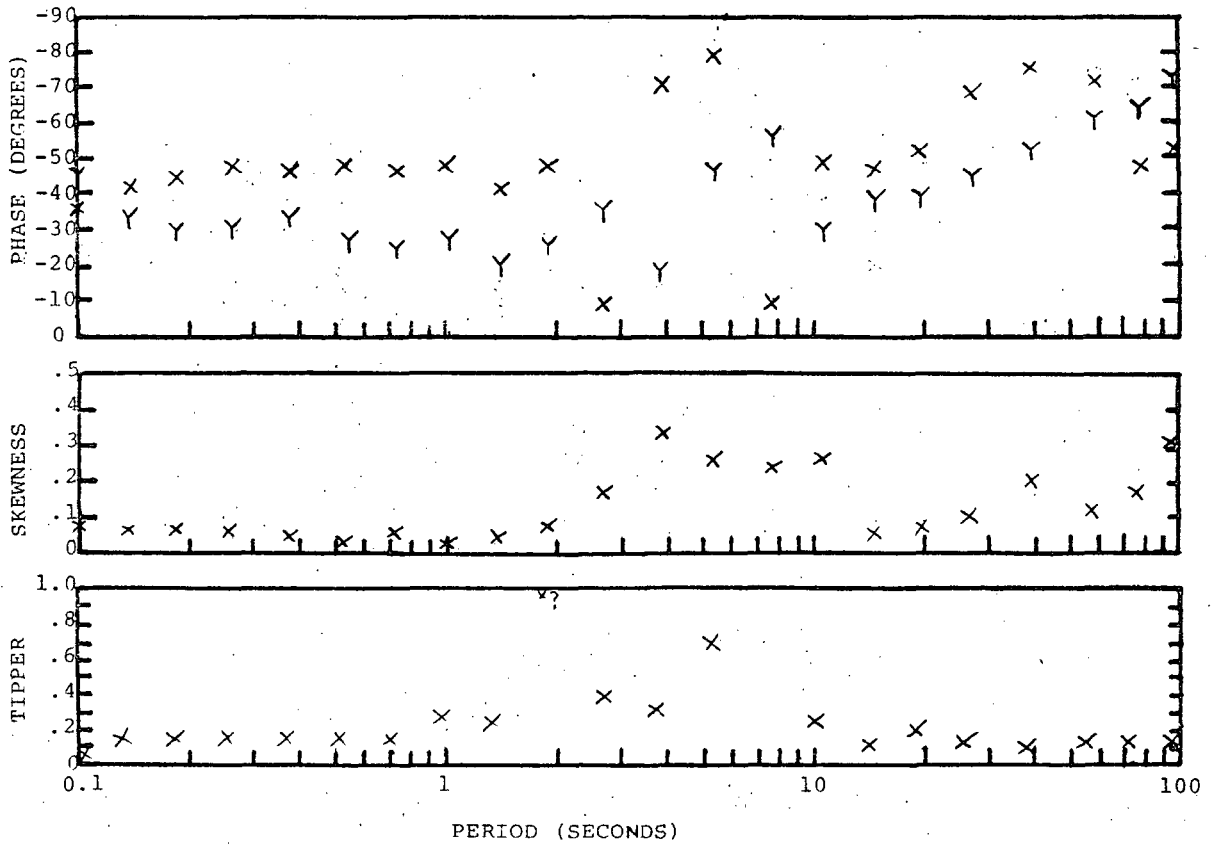
TUSCARORA, NEVADA
 STATION M8



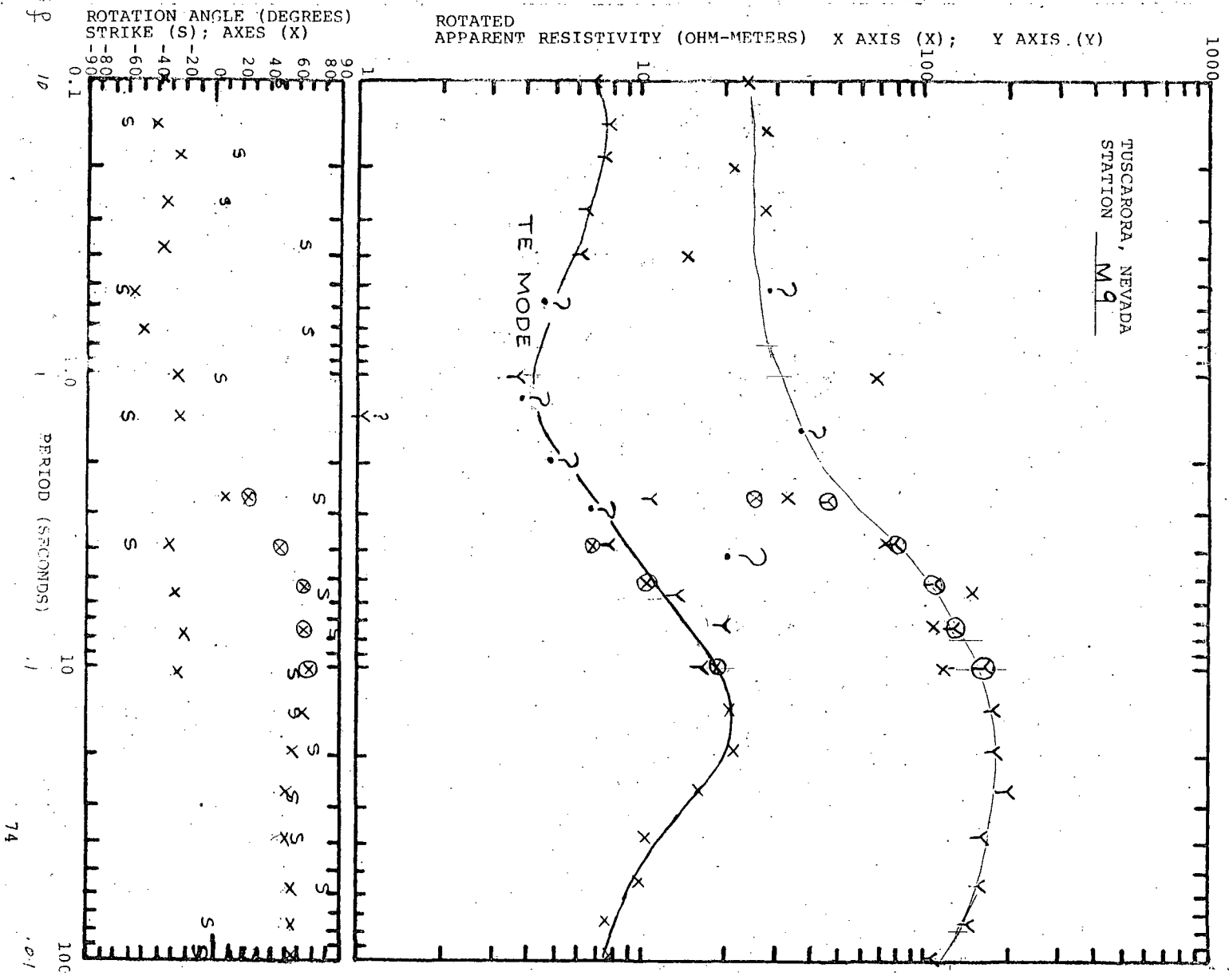
Fact 3
12 vs. 85



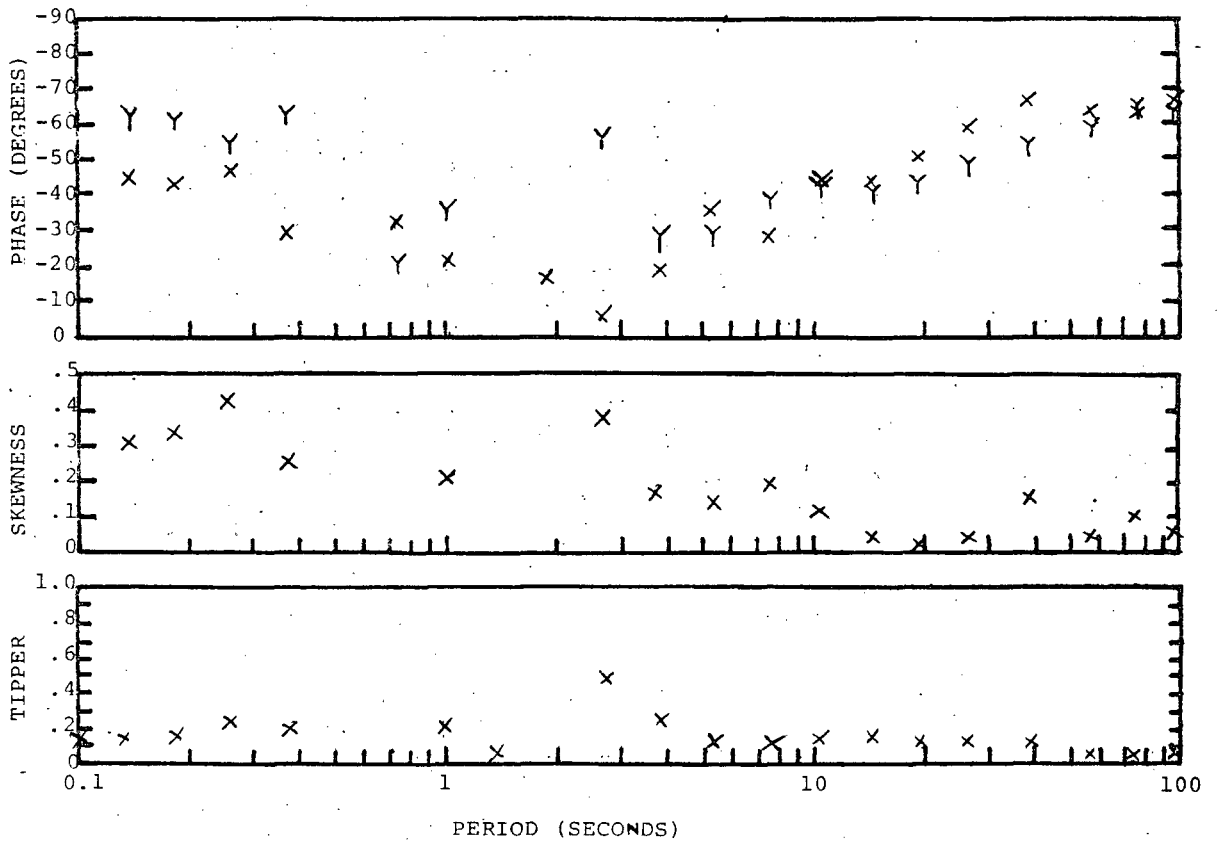
TUSCARORA, NEVADA
STATION A8



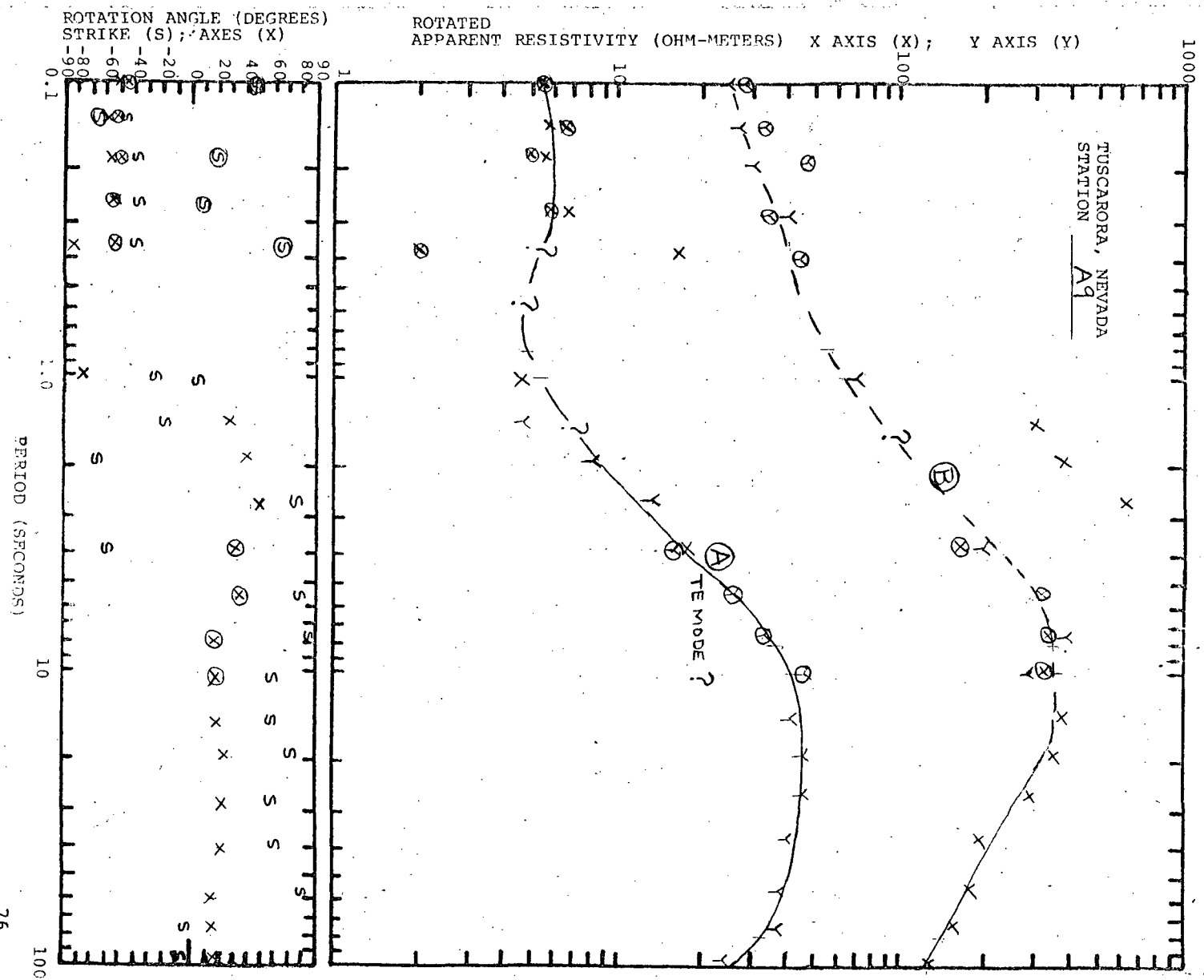
7/15/24
Field 3



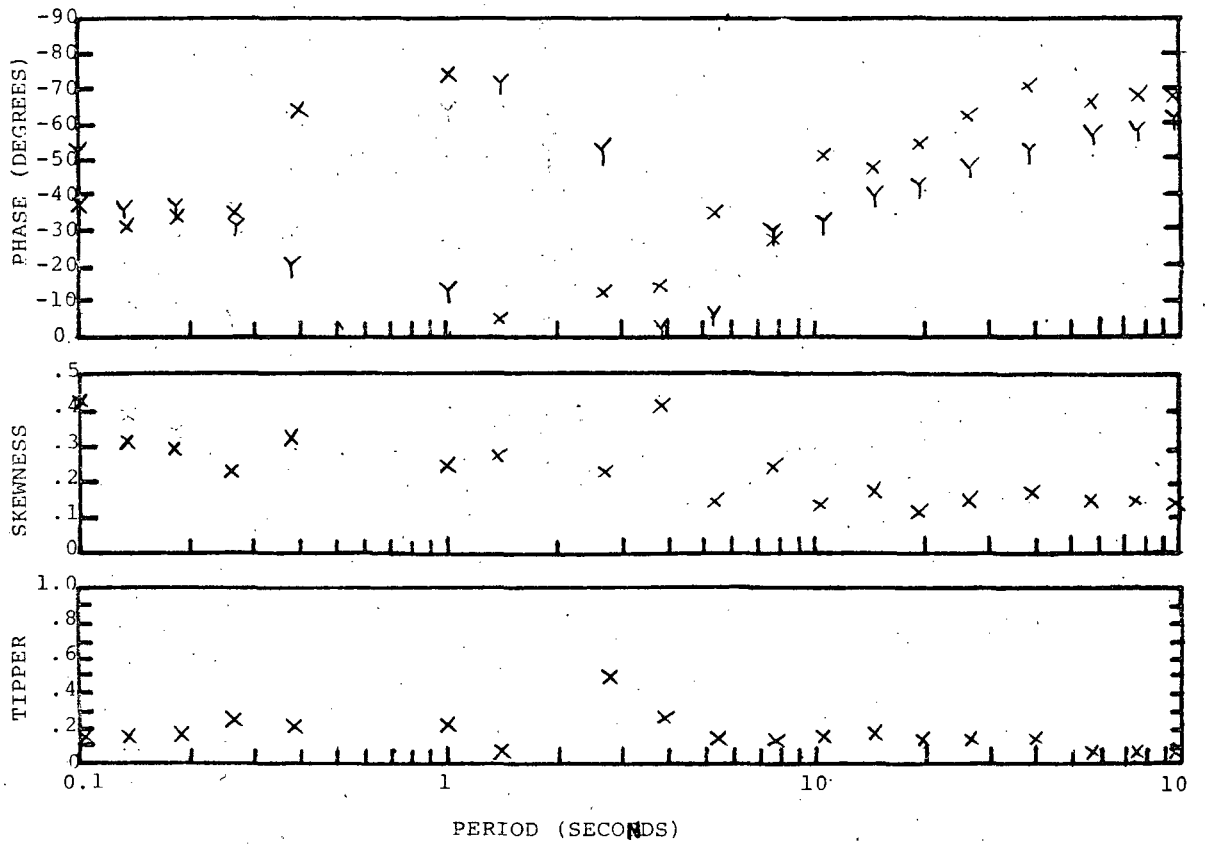
TUSCARORA, NEVADA
STATION M9



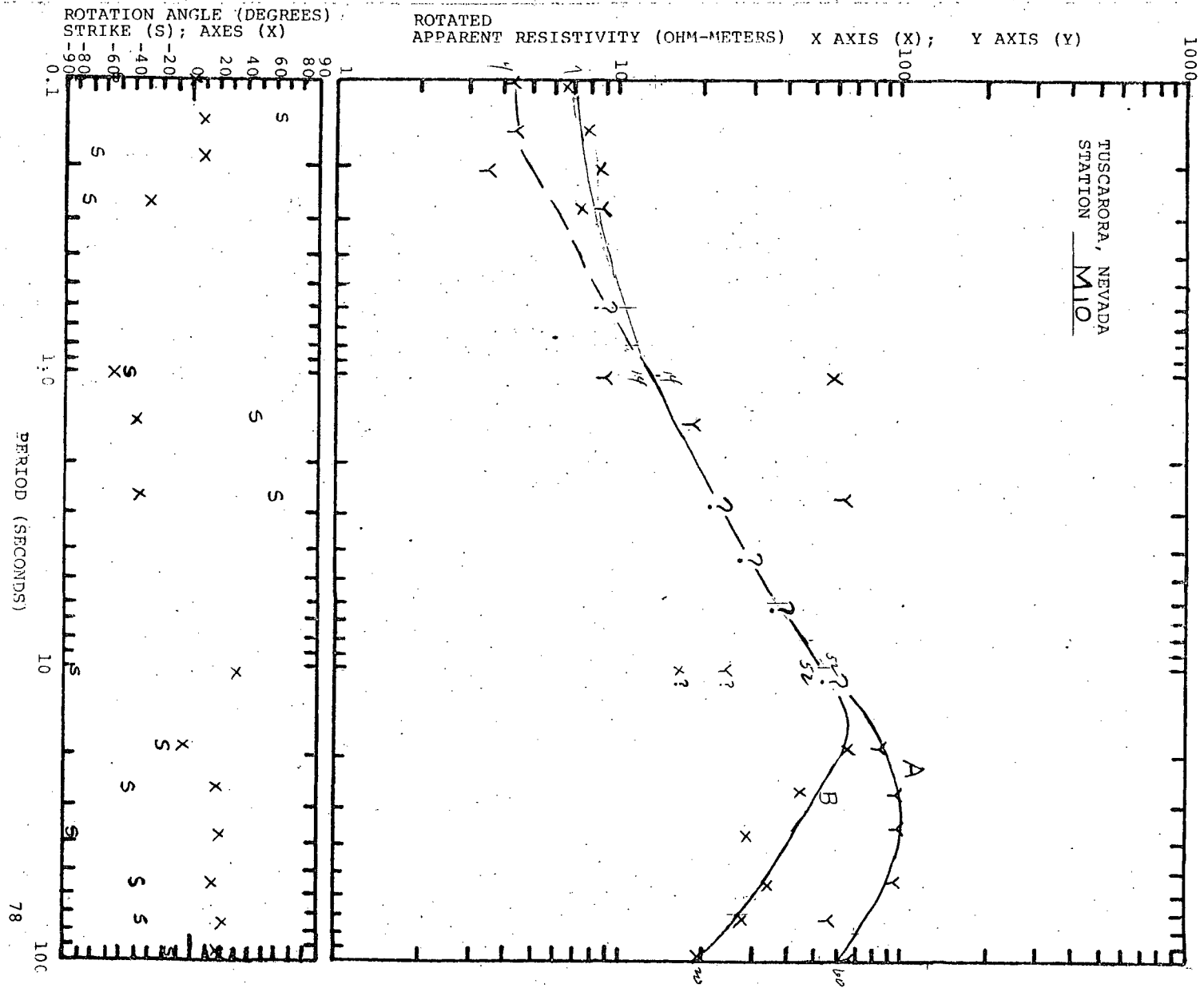
Field 5
5 vs. 25



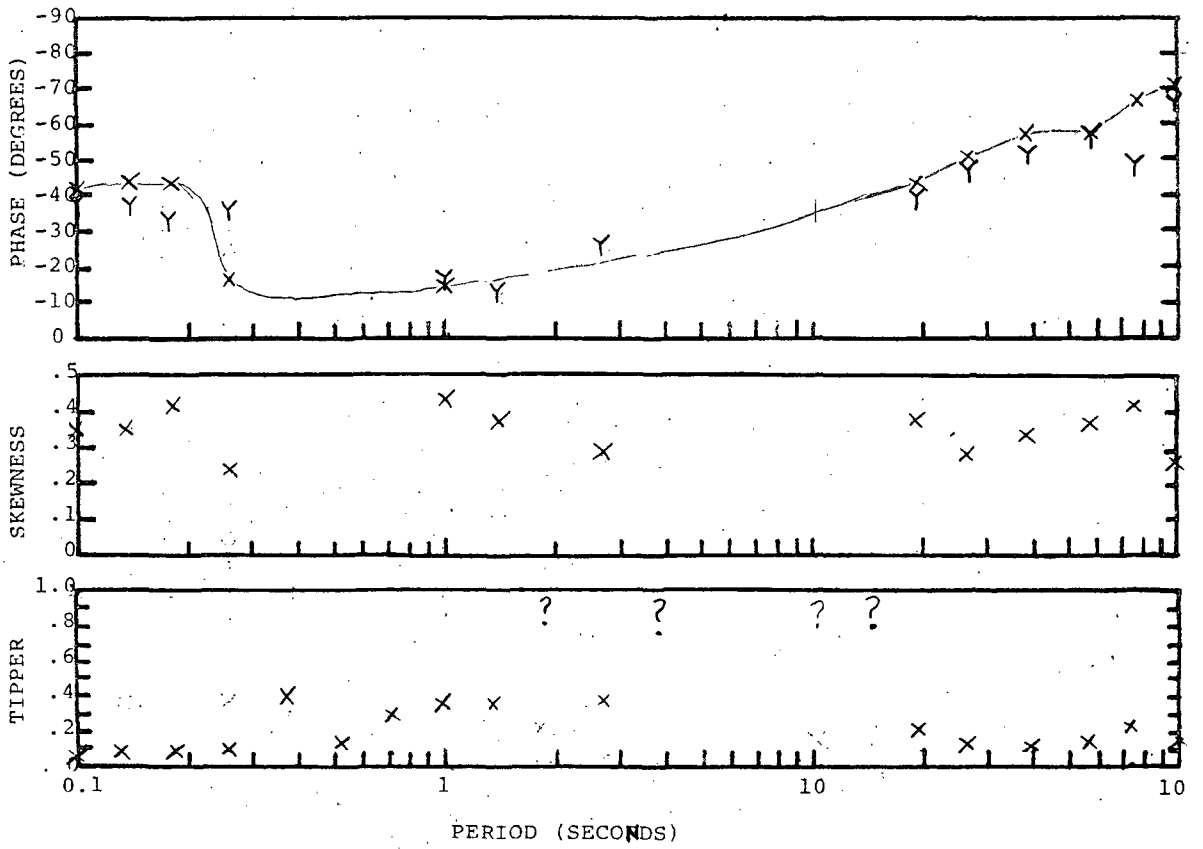
TUSCARORA, NEVADA
STATION A9



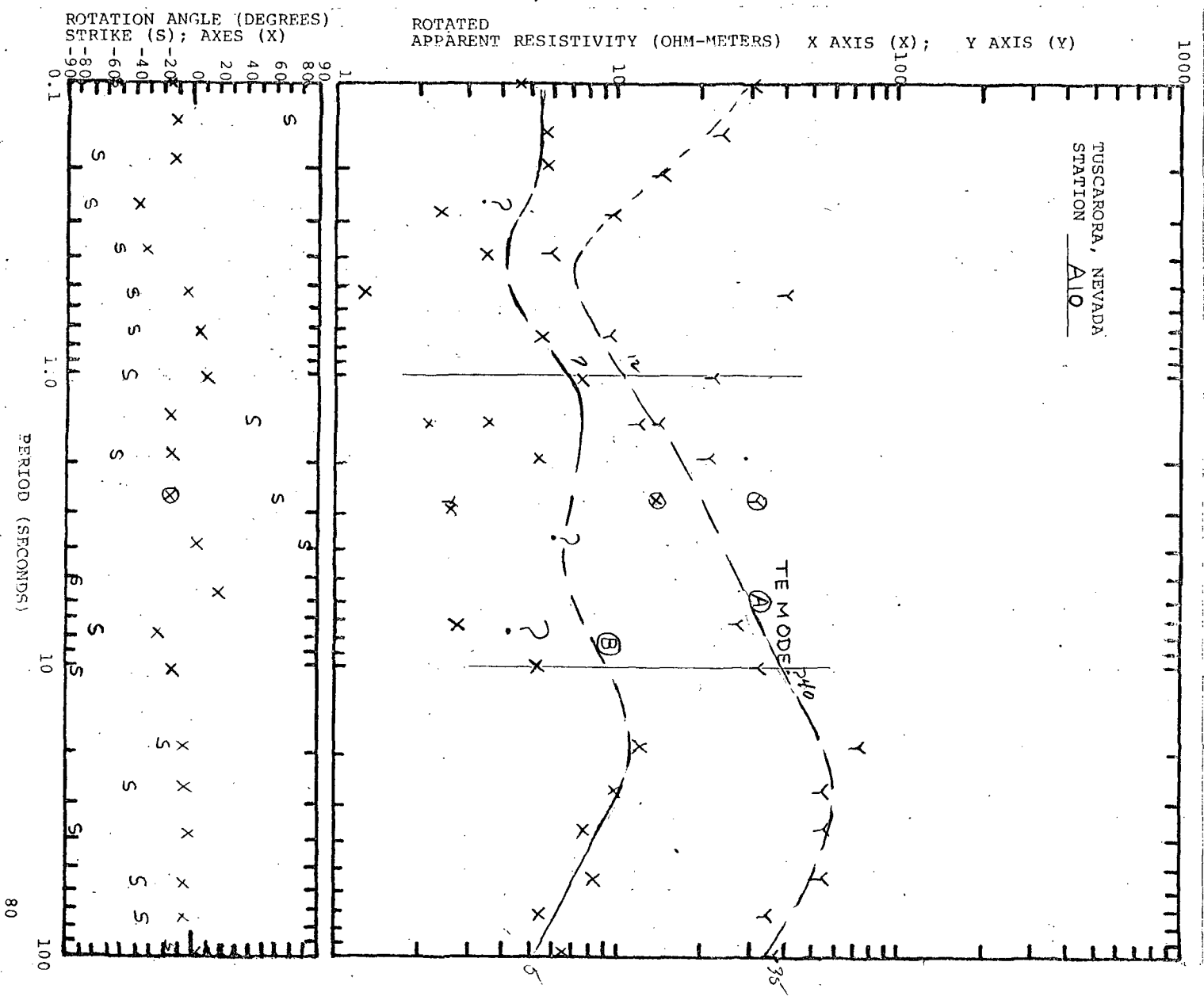
Fract 2
4.15 ?



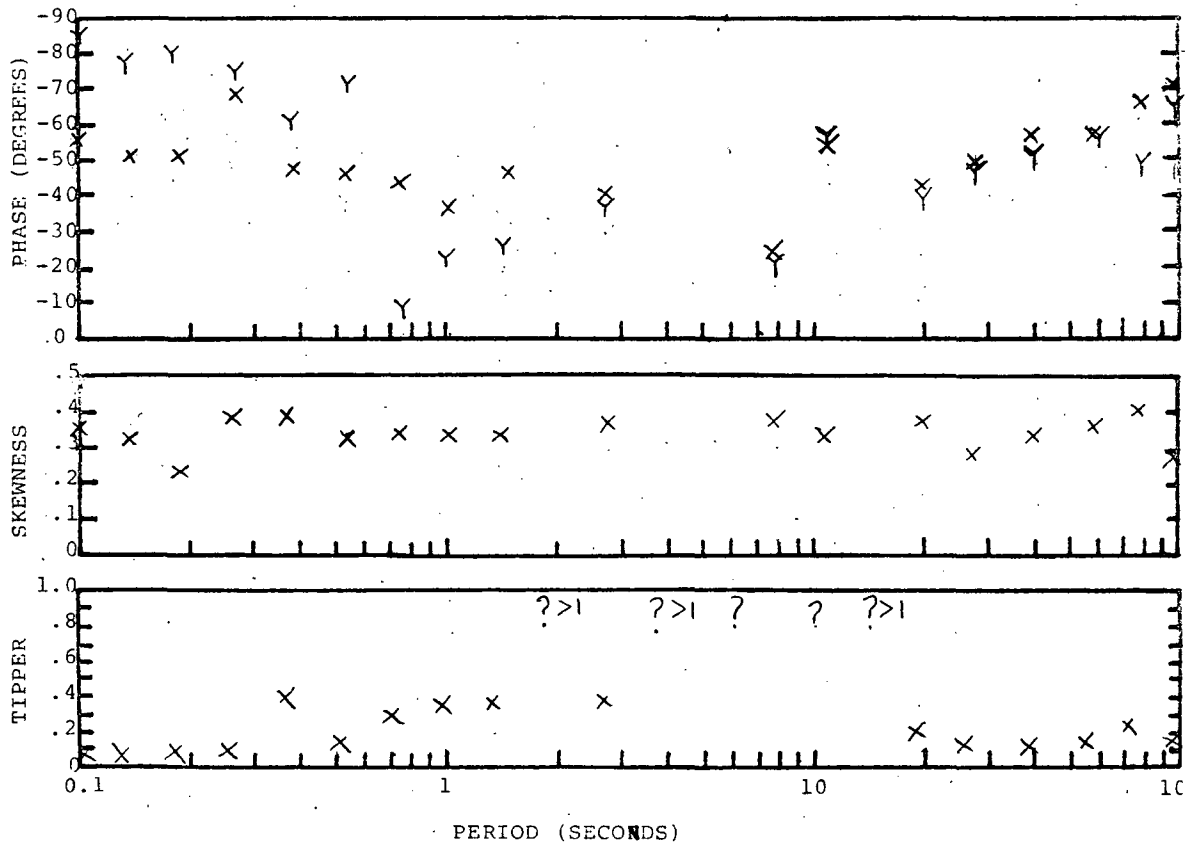
TUSCARORA, NEVADA
STATION M10



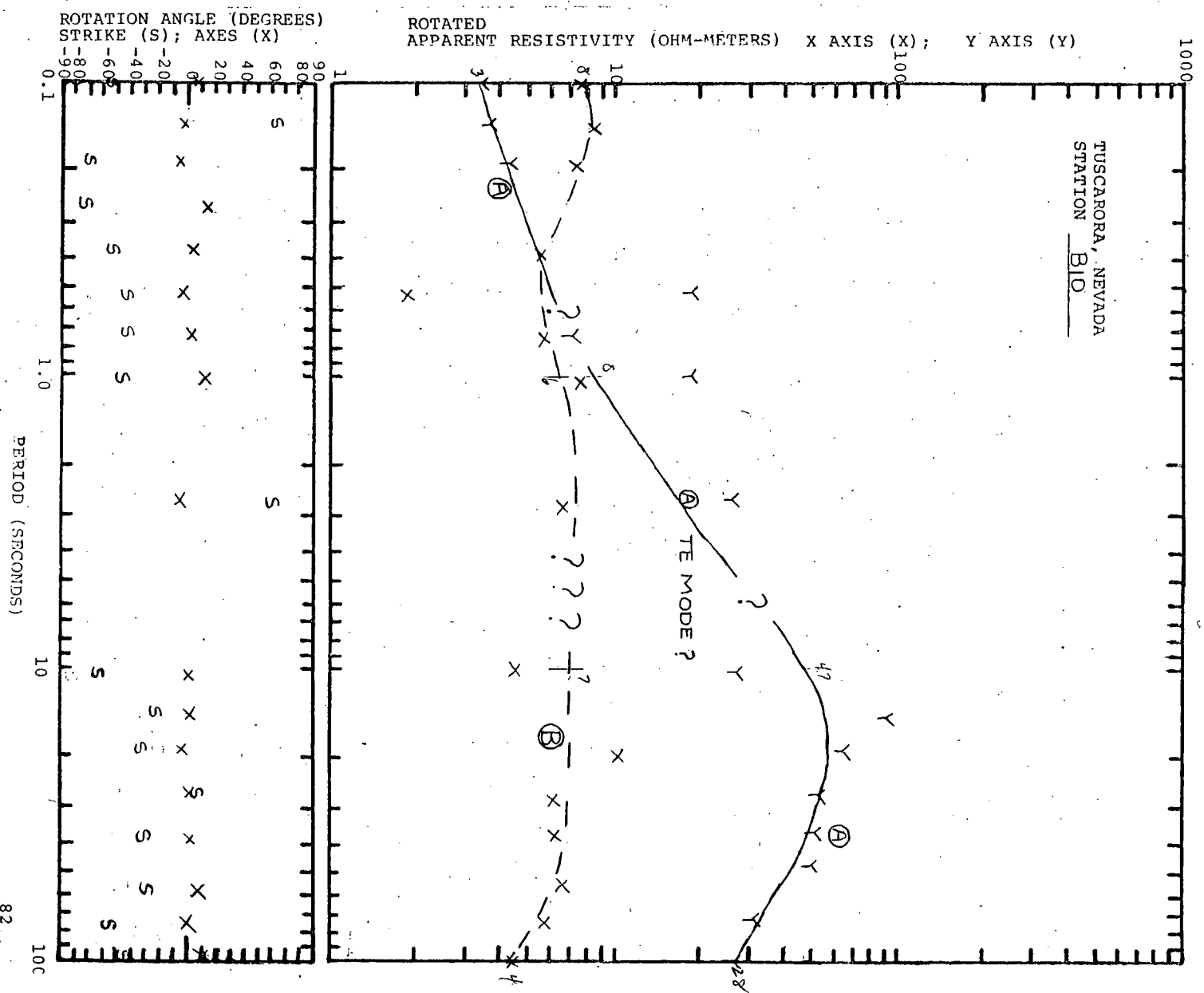
5 V5-30
Frank



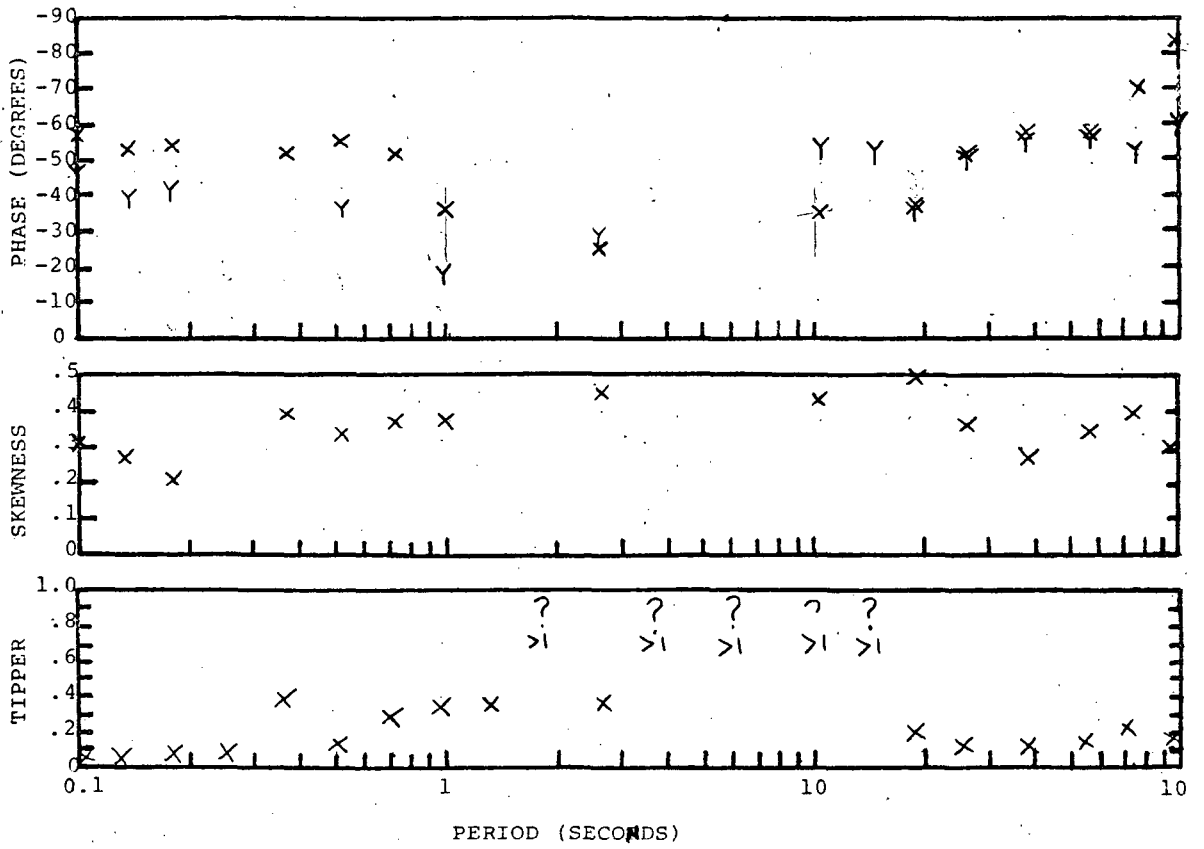
TUSCARORA, NEVADA
 STATION A10



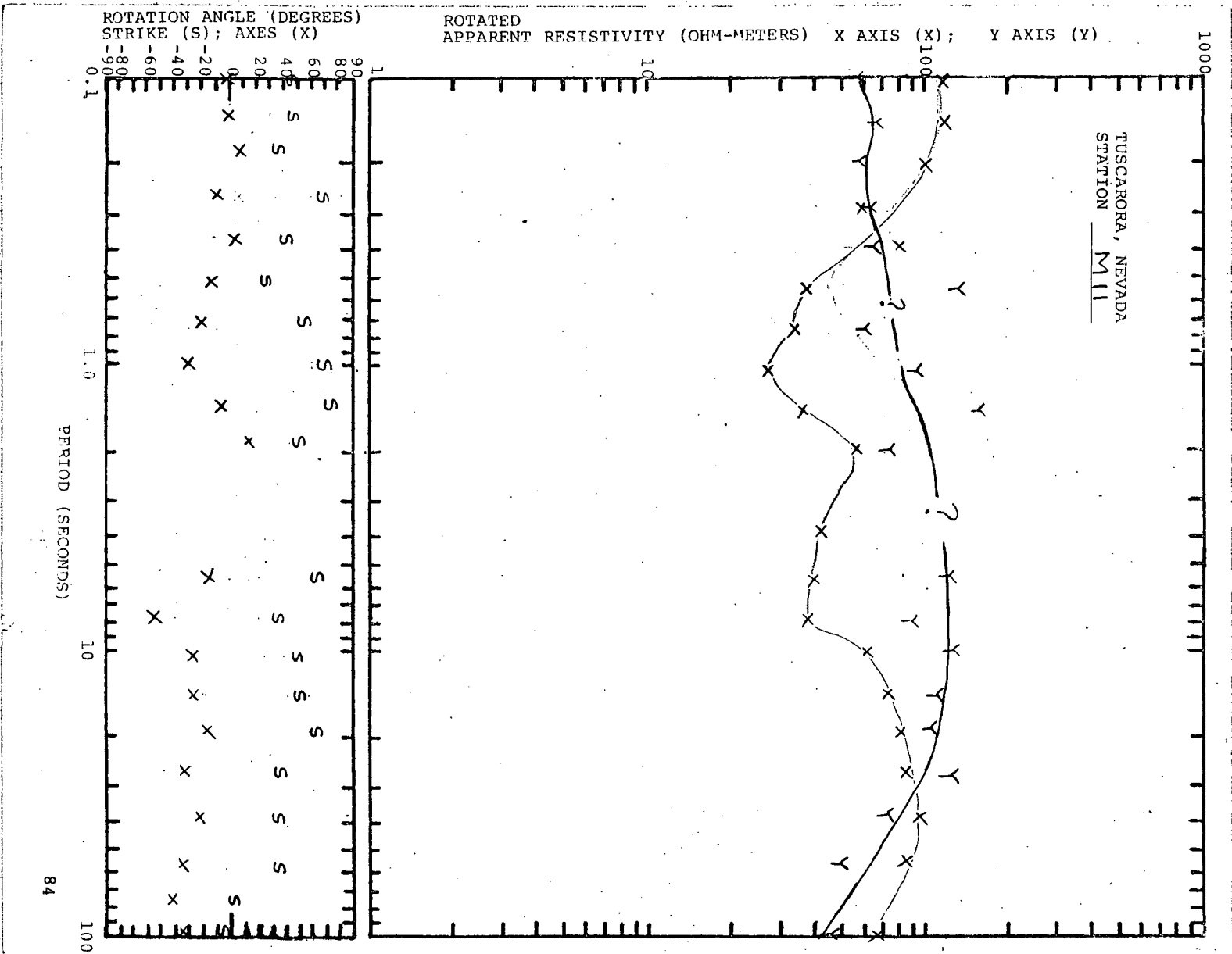
Fact 3
Vb: 8



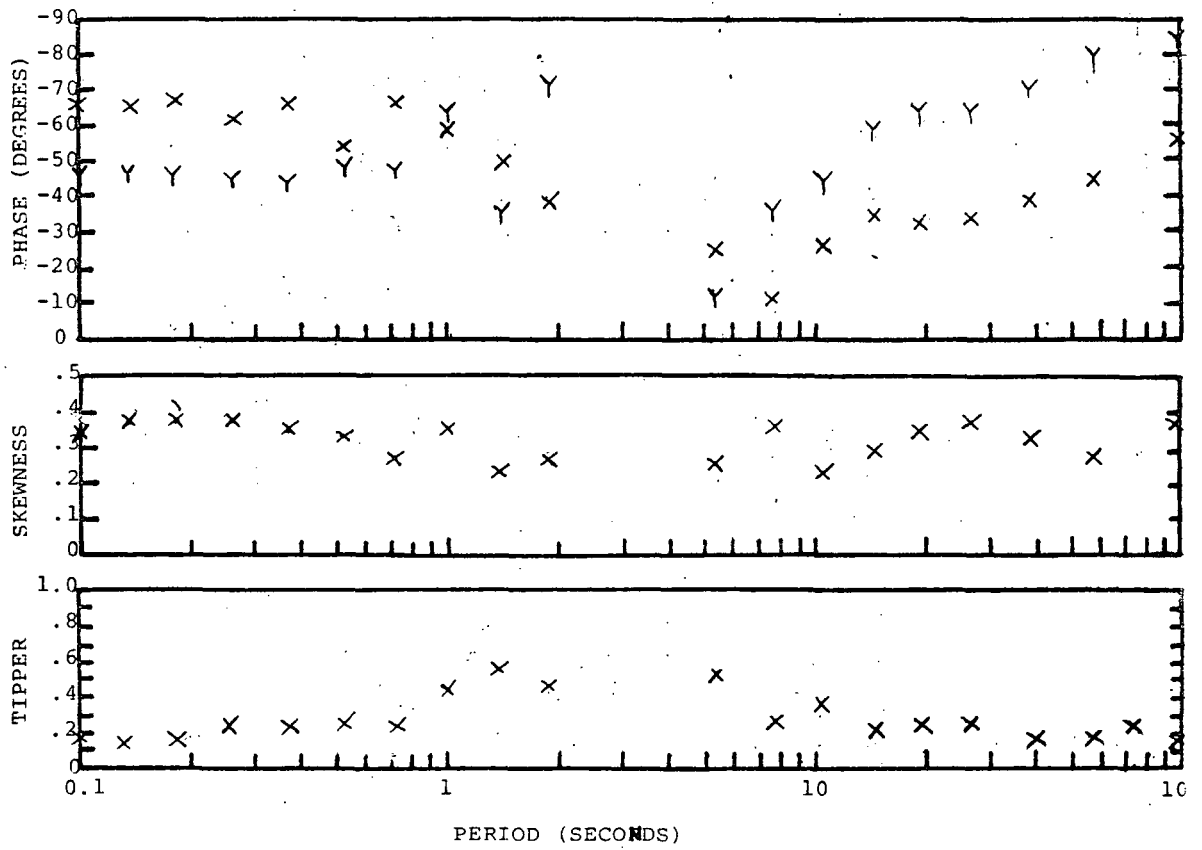
TUSCARORA, NEVADA
 STATION B10



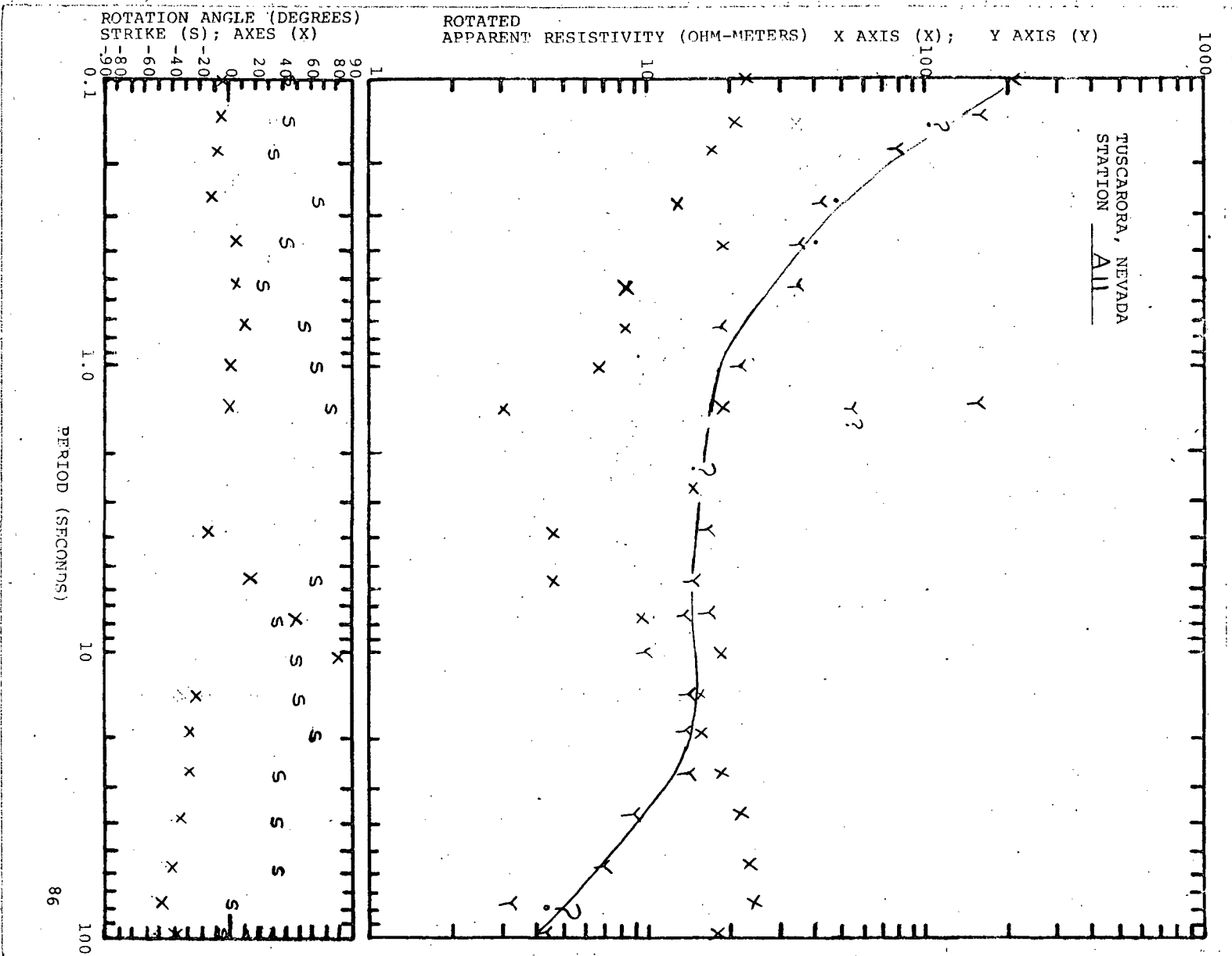
Fac 2
100 05.620



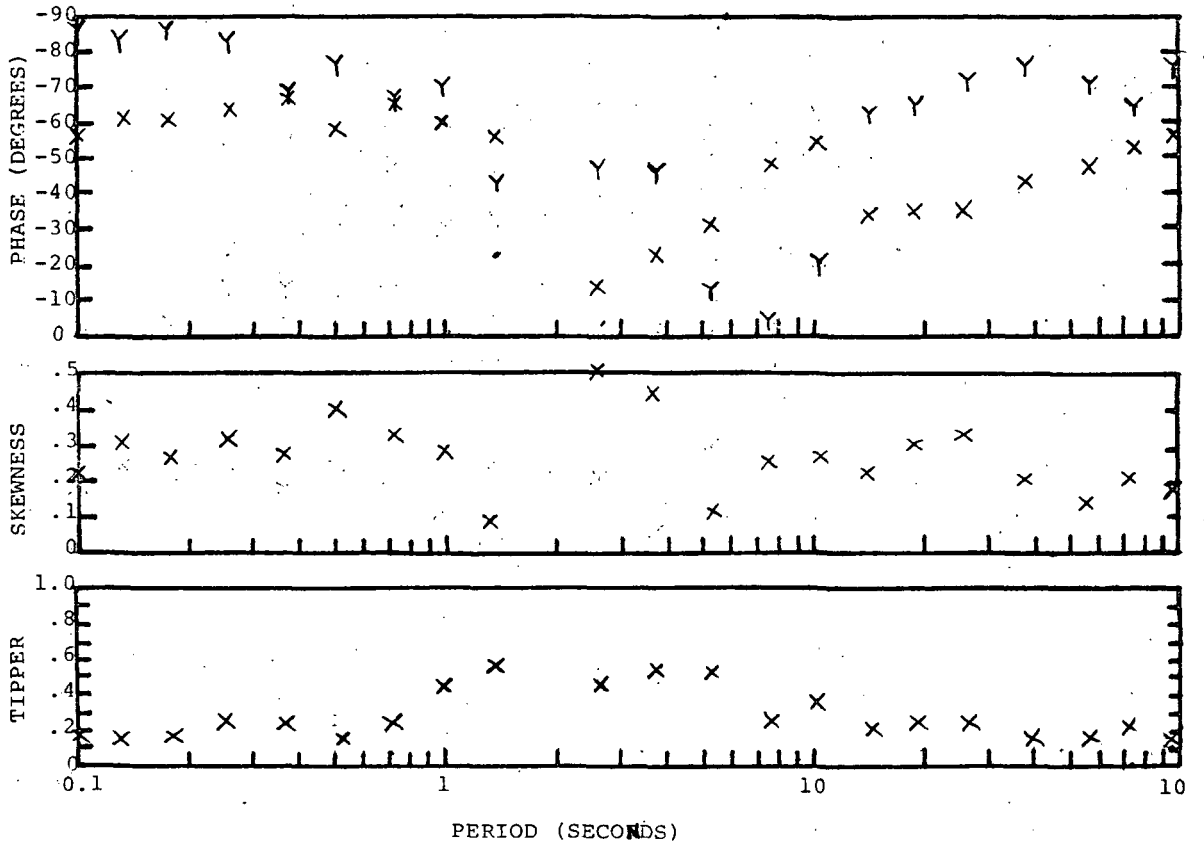
TUSCARORA, NEVADA
 STATION M11



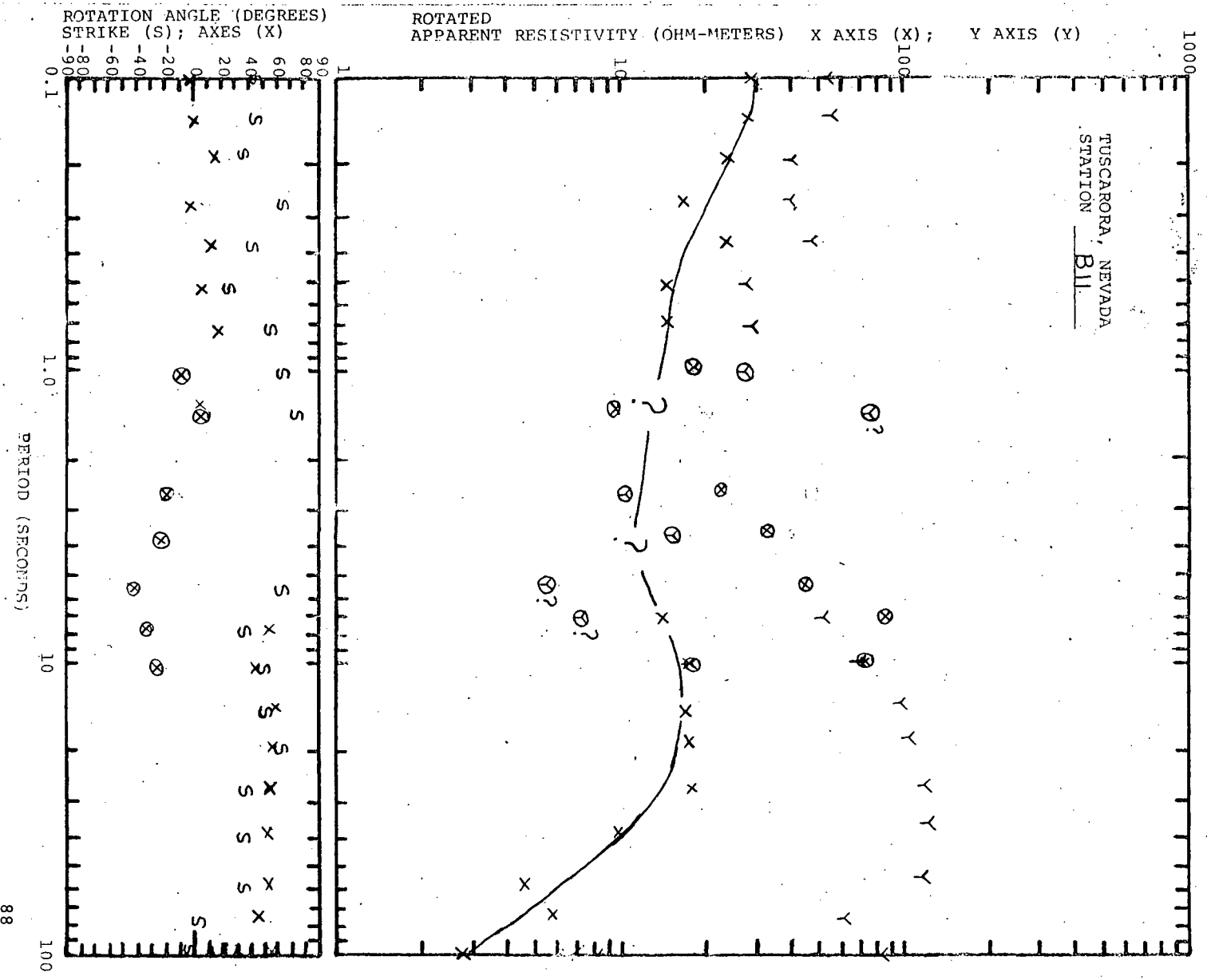
1 pole west
22 vs 220



TUSCARORA, NEVADA
STATION A11



30 vs. 60
Part 2



TUSCARORA, NEVADA
STATION B11

