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WIND-TUNNEL STUDY OF CHIMNEY DOWNWASH  
AT THE B.L. ENGLAND STATION OF THE  
ATLANTIC CITY ELECTRIC COMPANY

En

(APPENDIX B)

by

J. E. Cermak<sup>1</sup>, J. A. Peterka<sup>2</sup>  
and J. A. Beatty<sup>3</sup>



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**FLUID MECHANICS AND  
WIND ENGINEERING PROGRAM**

**COLLEGE OF ENGINEERING**

**COLORADO STATE UNIVERSITY  
FORT COLLINS, COLORADO**

CER83-84JEC-JAP-JAB 306



WIND-TUNNEL STUDY OF CHIMNEY DOWNWASH  
AT THE B.L. ENGLAND STATION OF THE  
ATLANTIC CITY ELECTRIC COMPANY

(APPENDIX B)

by

J. E. Cermak<sup>1</sup>, J. A. Peterka<sup>2</sup>  
and J. A. Beatty<sup>3</sup>

prepared for

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Fluid Mechanics and Wind Engineering Program  
Fluid Dynamics and Diffusion Laboratory  
Colorado State University  
Fort Collins, Colorado 80523

June 1984

CER83-84JEC-JAP30**b**

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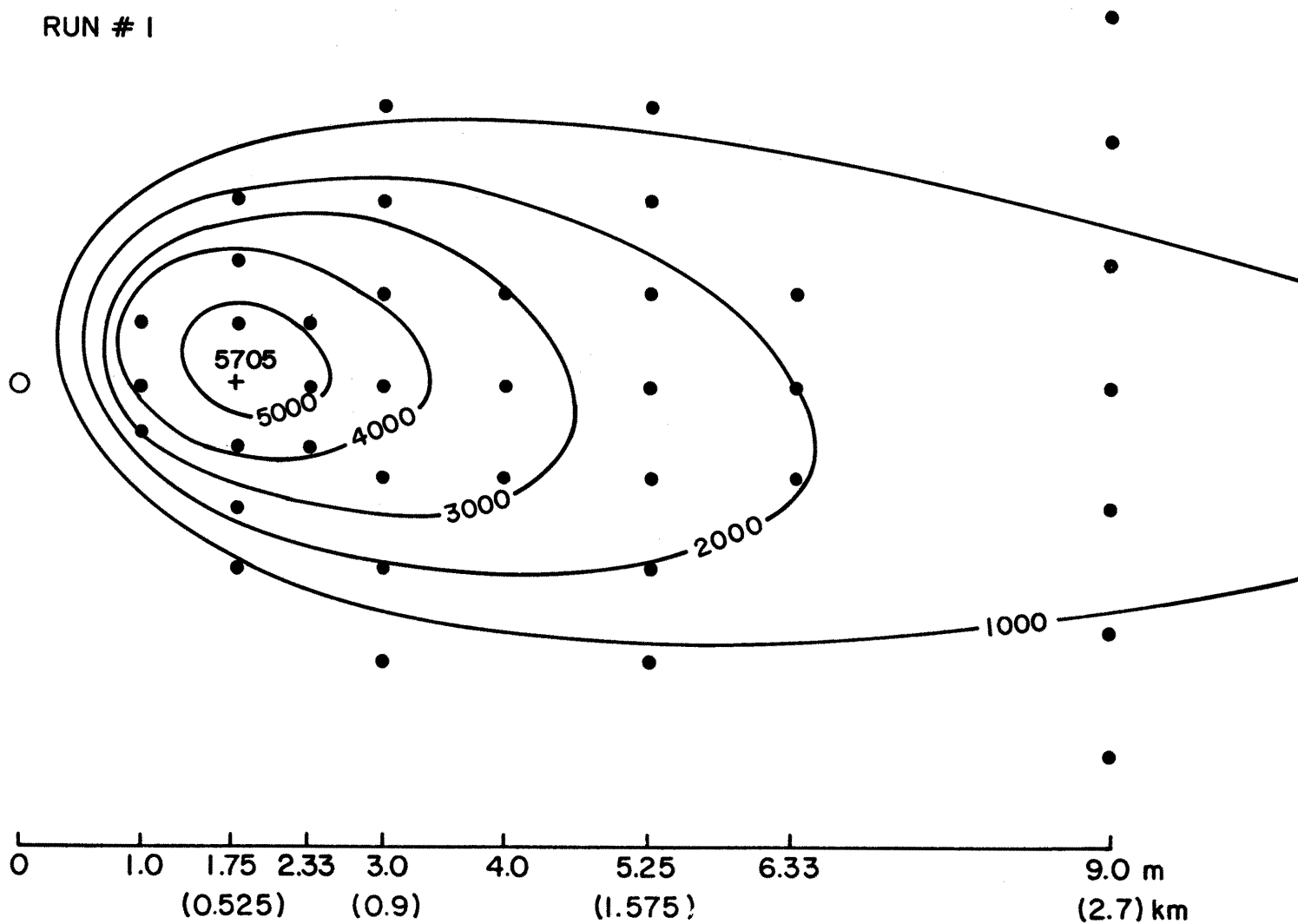
<sup>3</sup>Research Engineer, Department of Civil Engineering, Colorado State University.

## APPENDIX B

### Concentration Isopleths

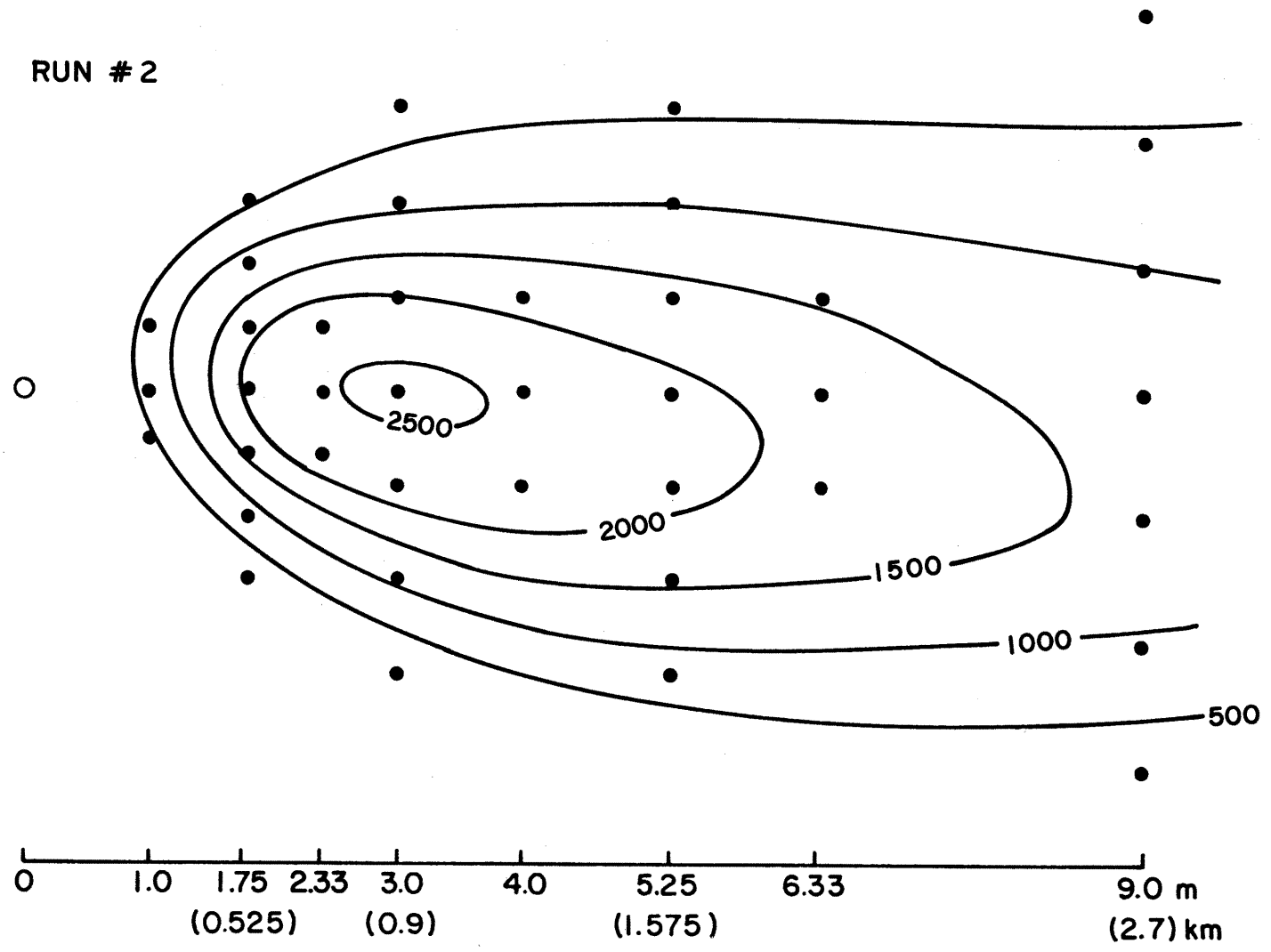
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION (μg/m<sup>3</sup>)

RUN # 1



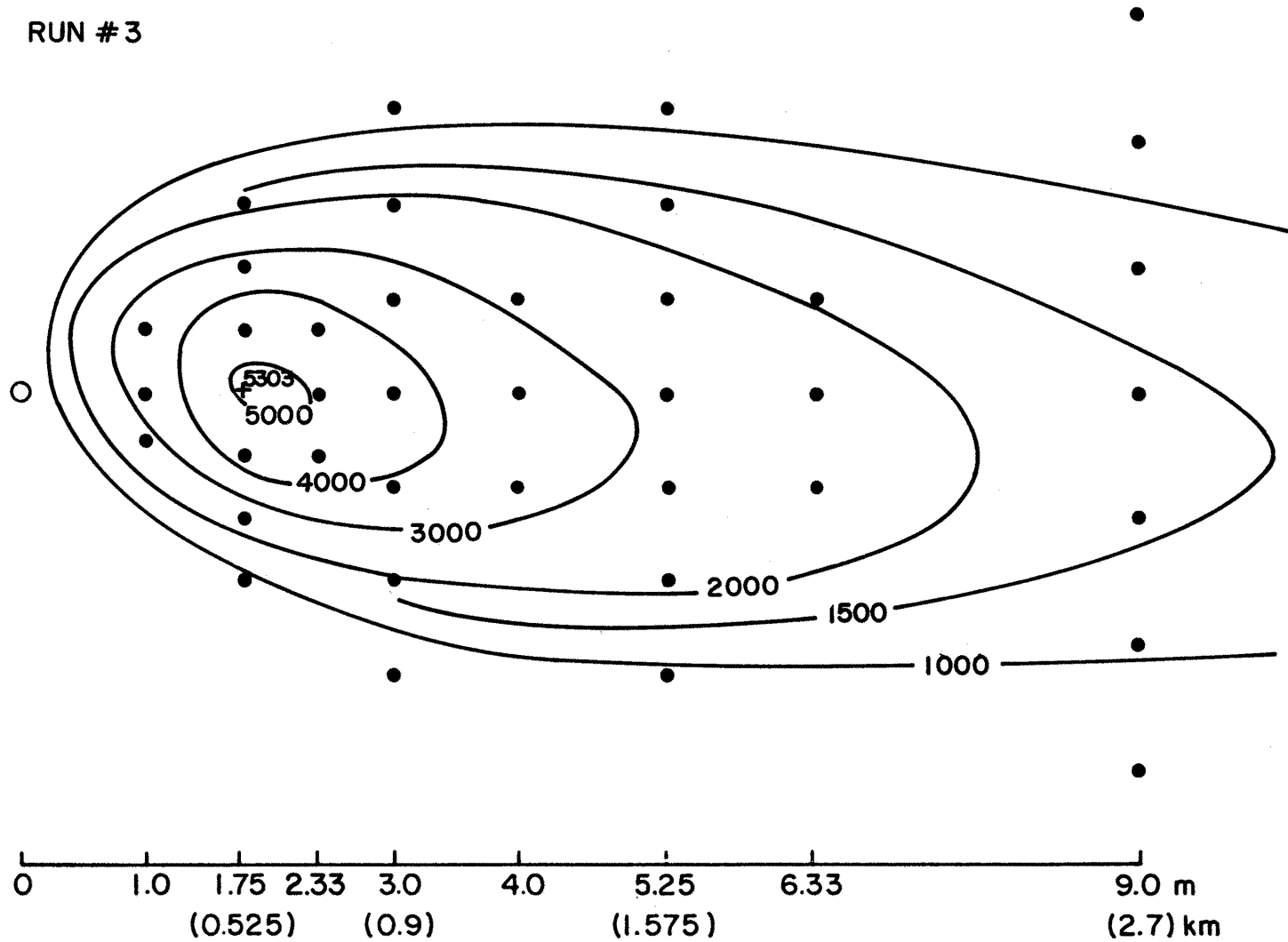
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 2



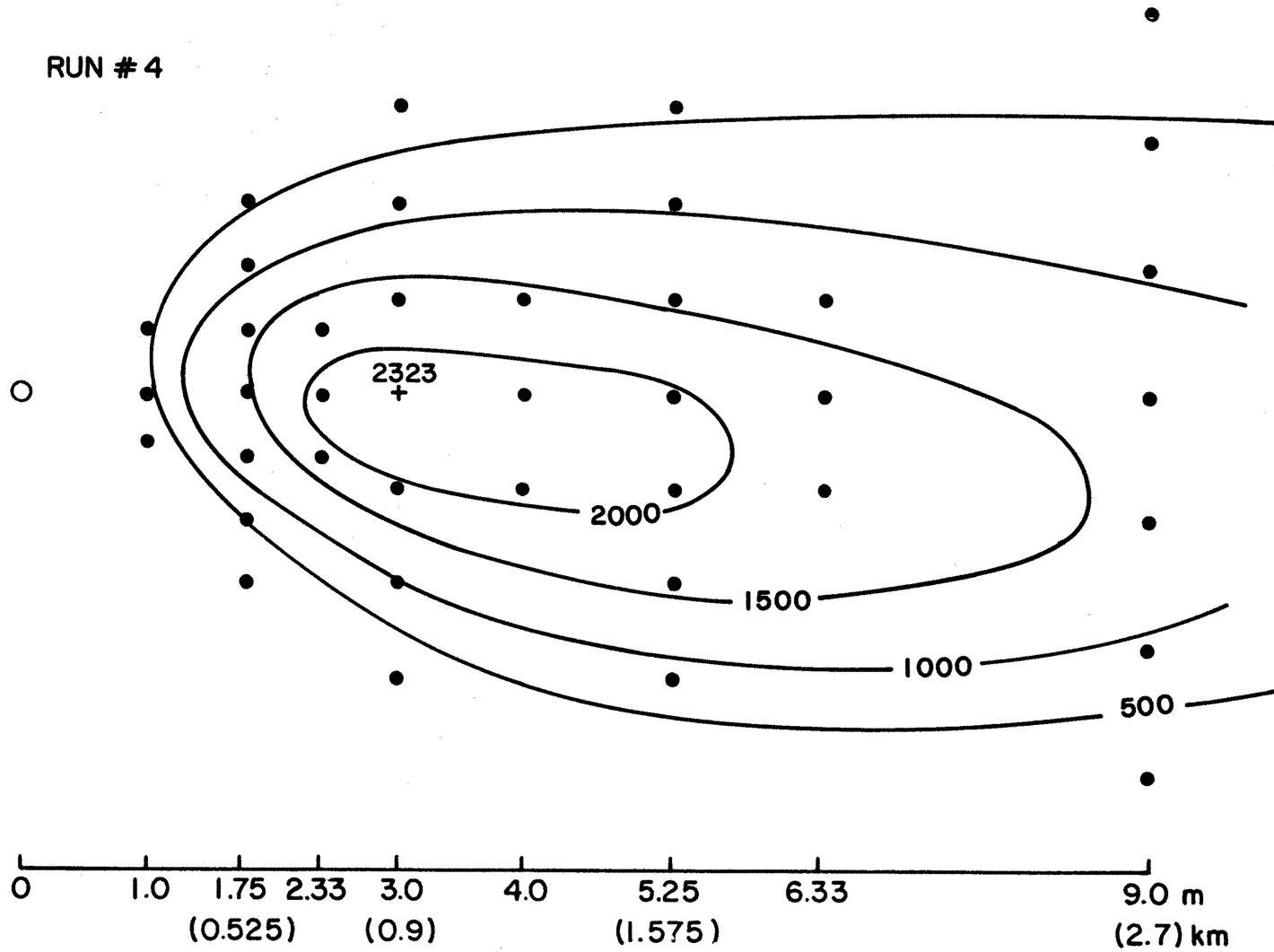
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #3



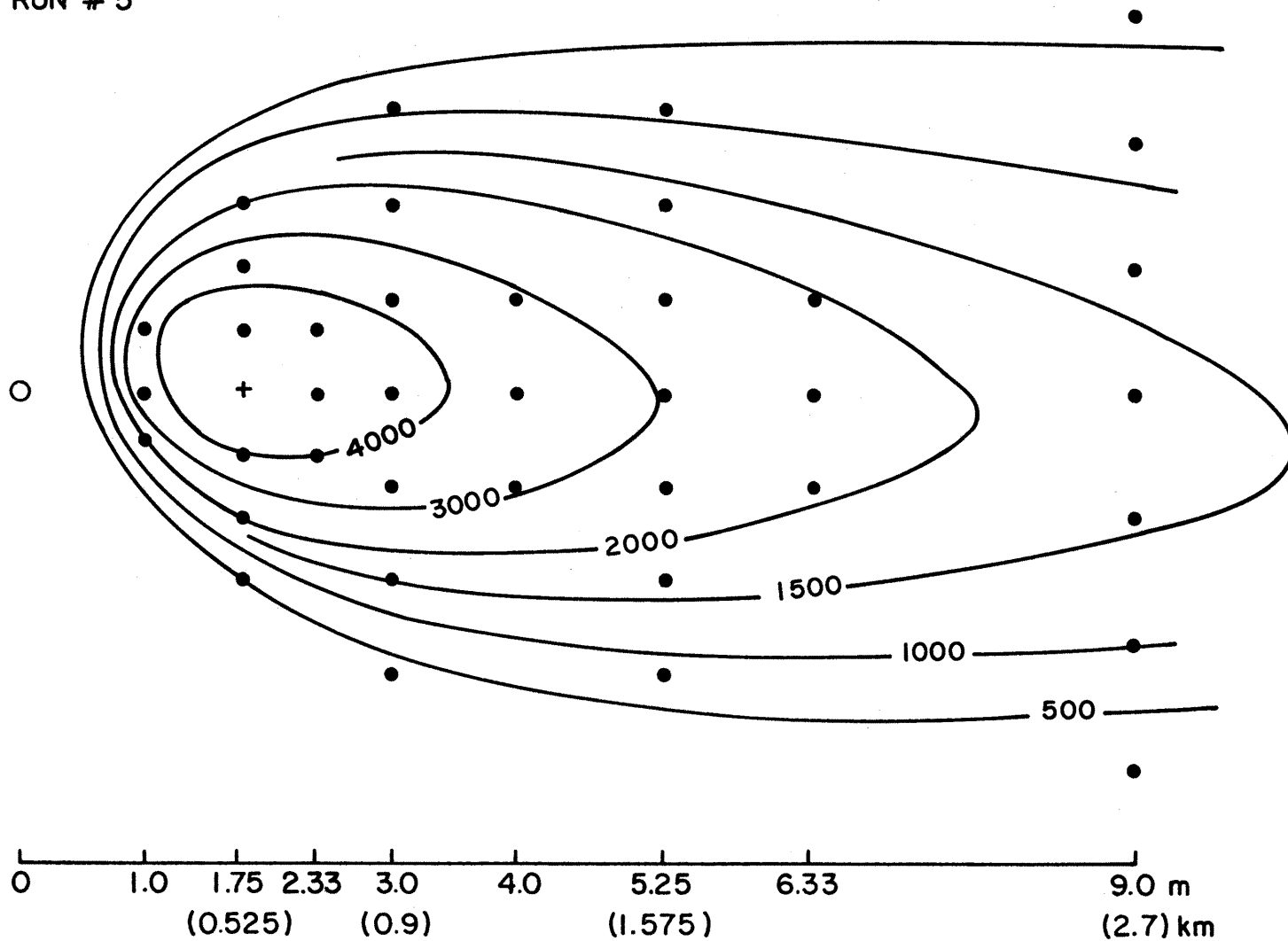
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 4



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

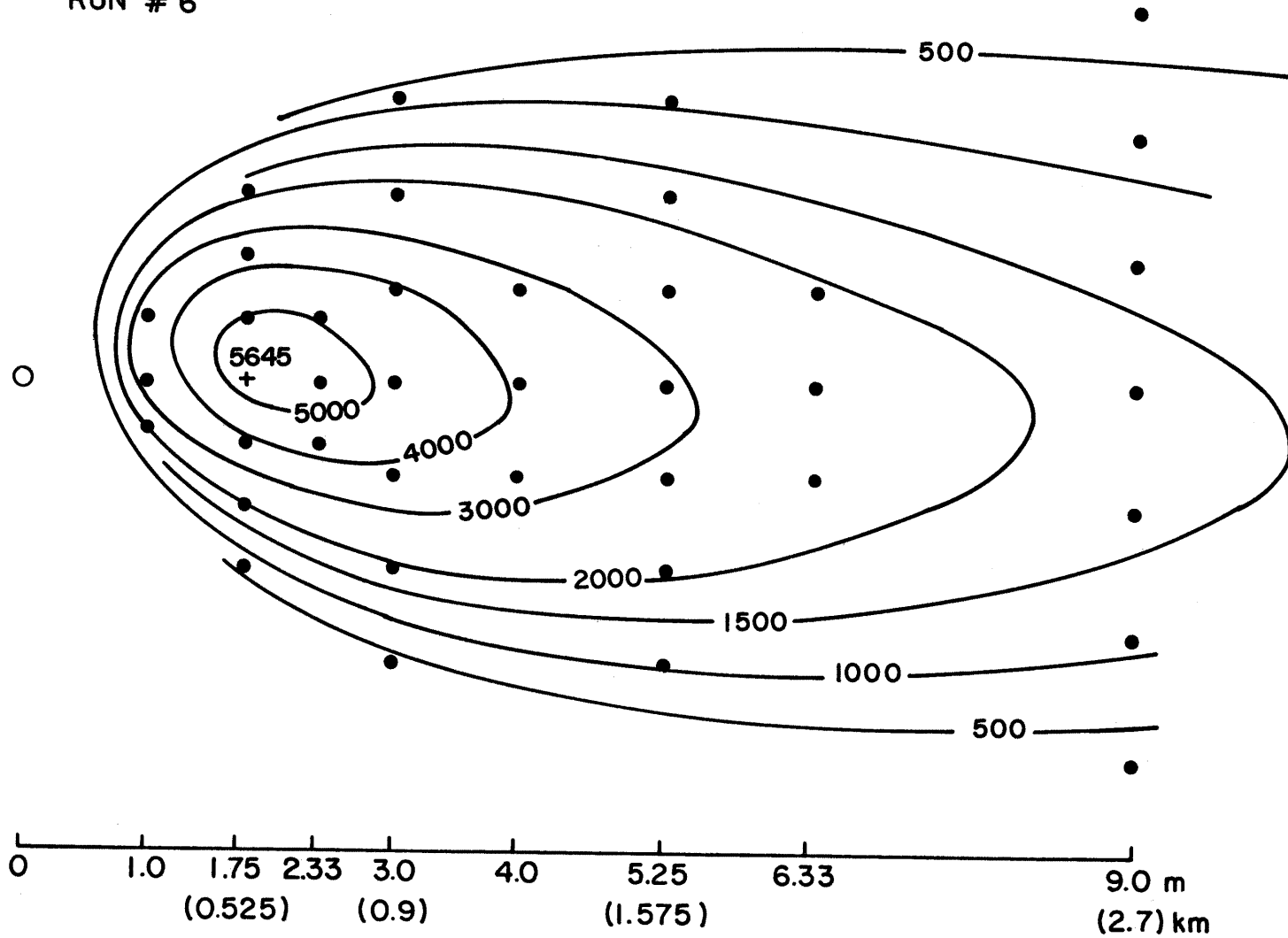
RUN # 5





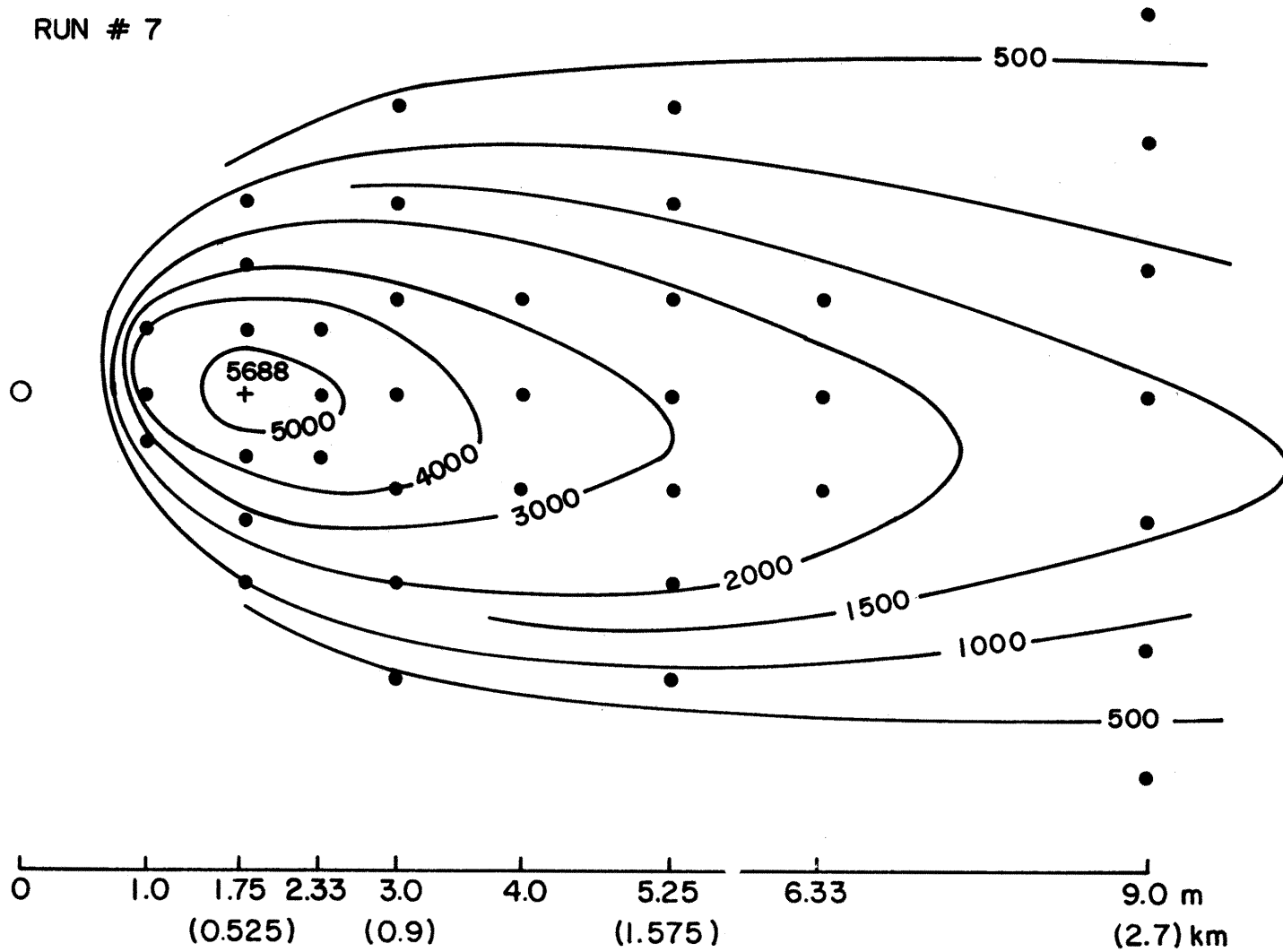
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 6



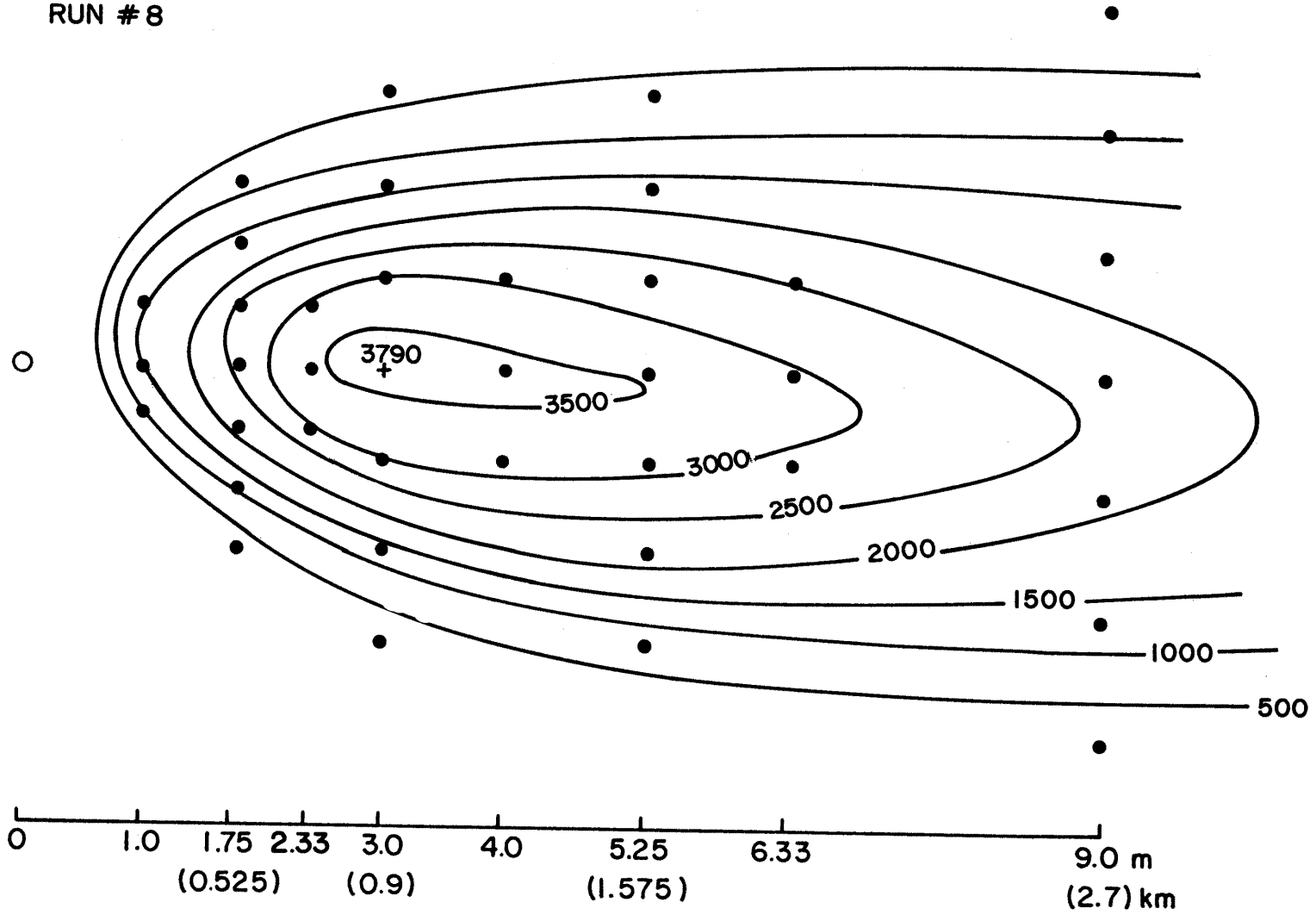
ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 7



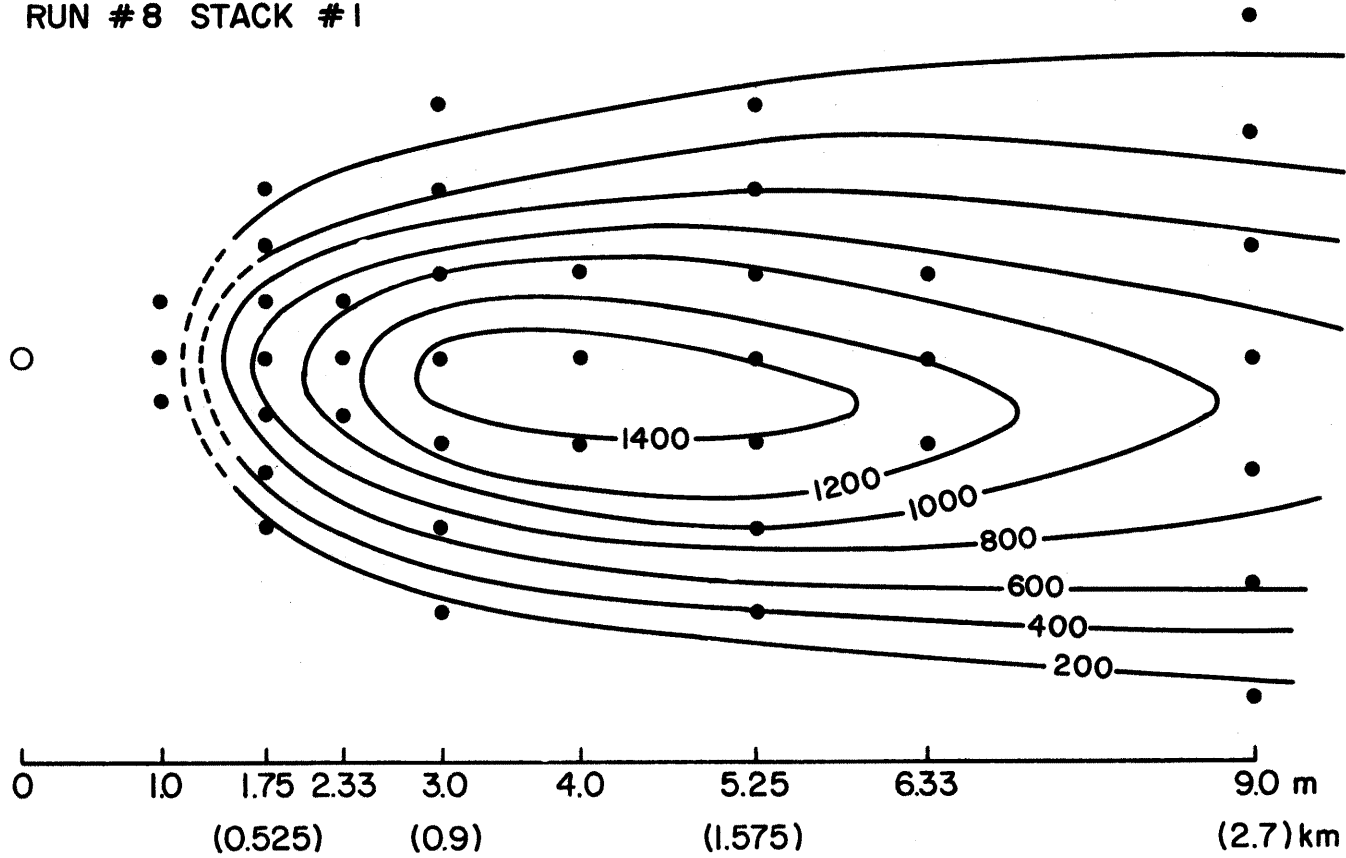
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 8



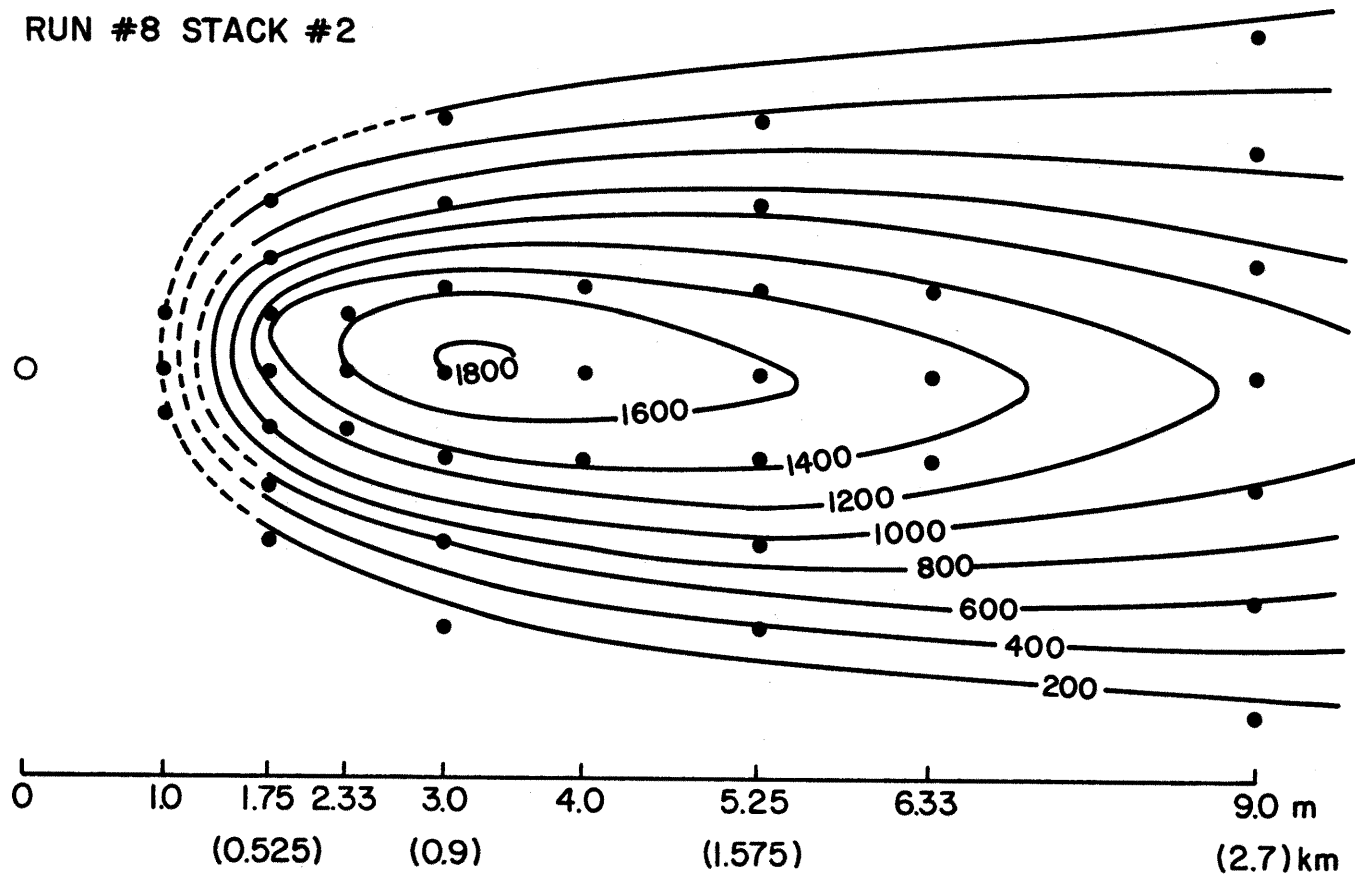
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #8 STACK #1



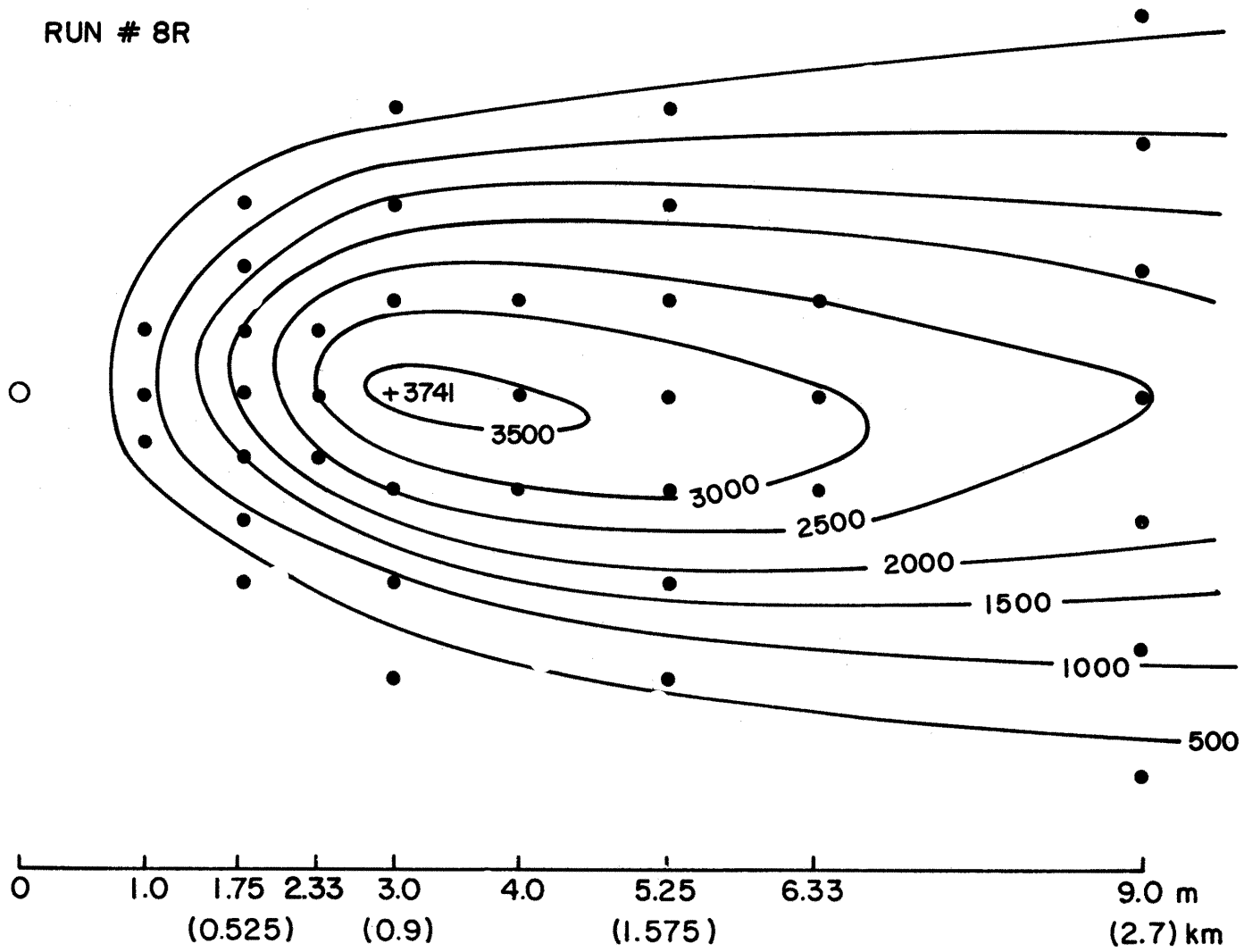
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #8 STACK #2



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

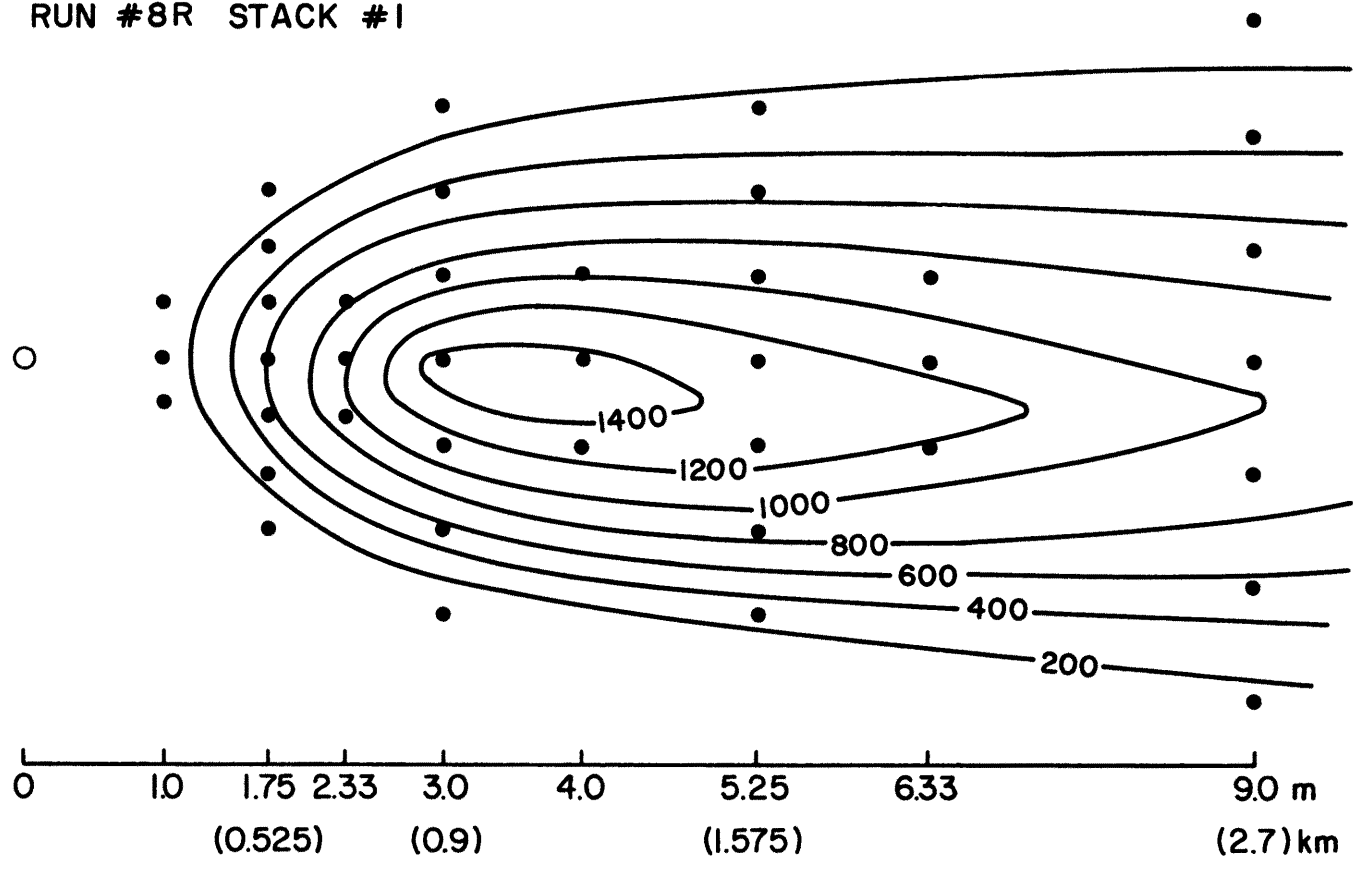
RUN # 8R





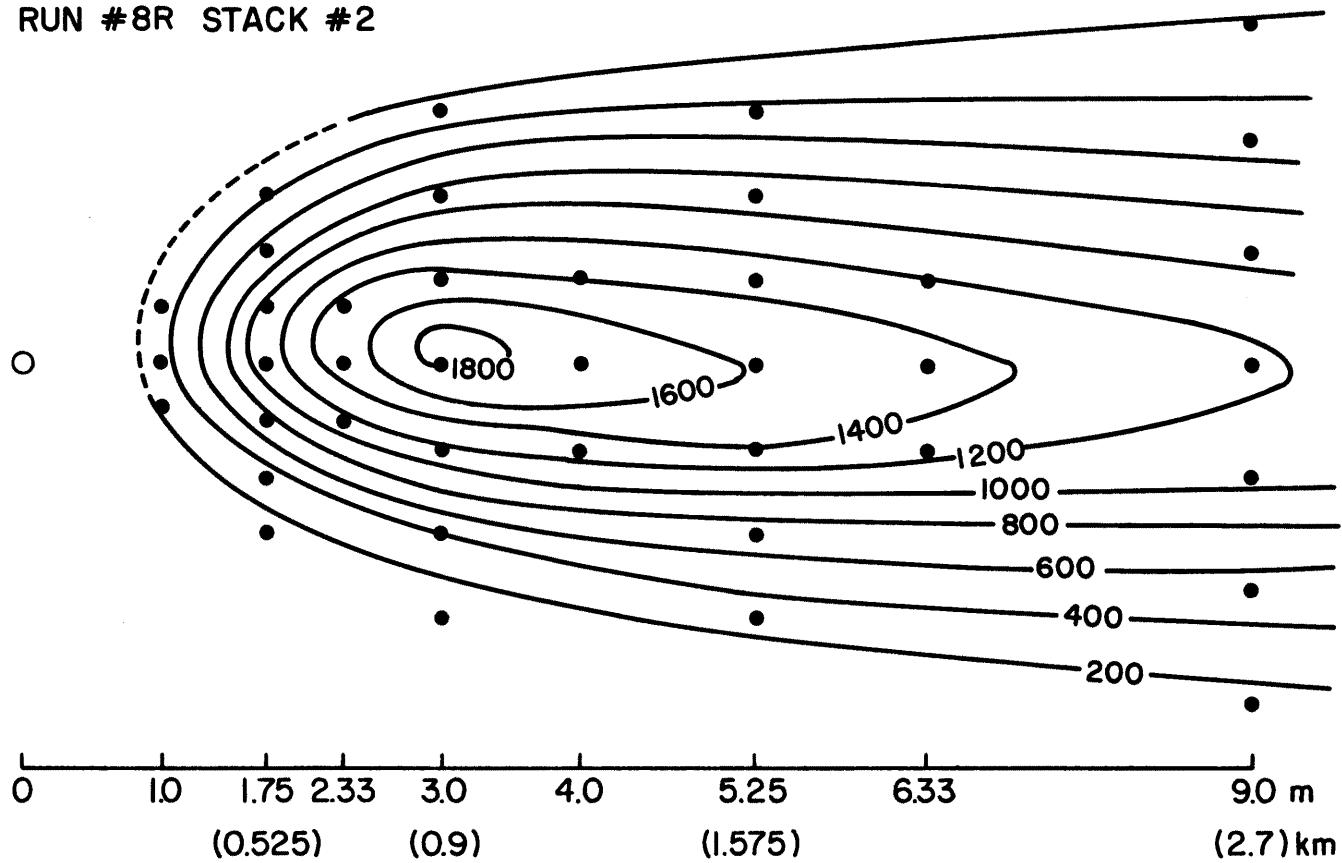
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g} / \text{m}^3$ )

RUN #8R STACK #1



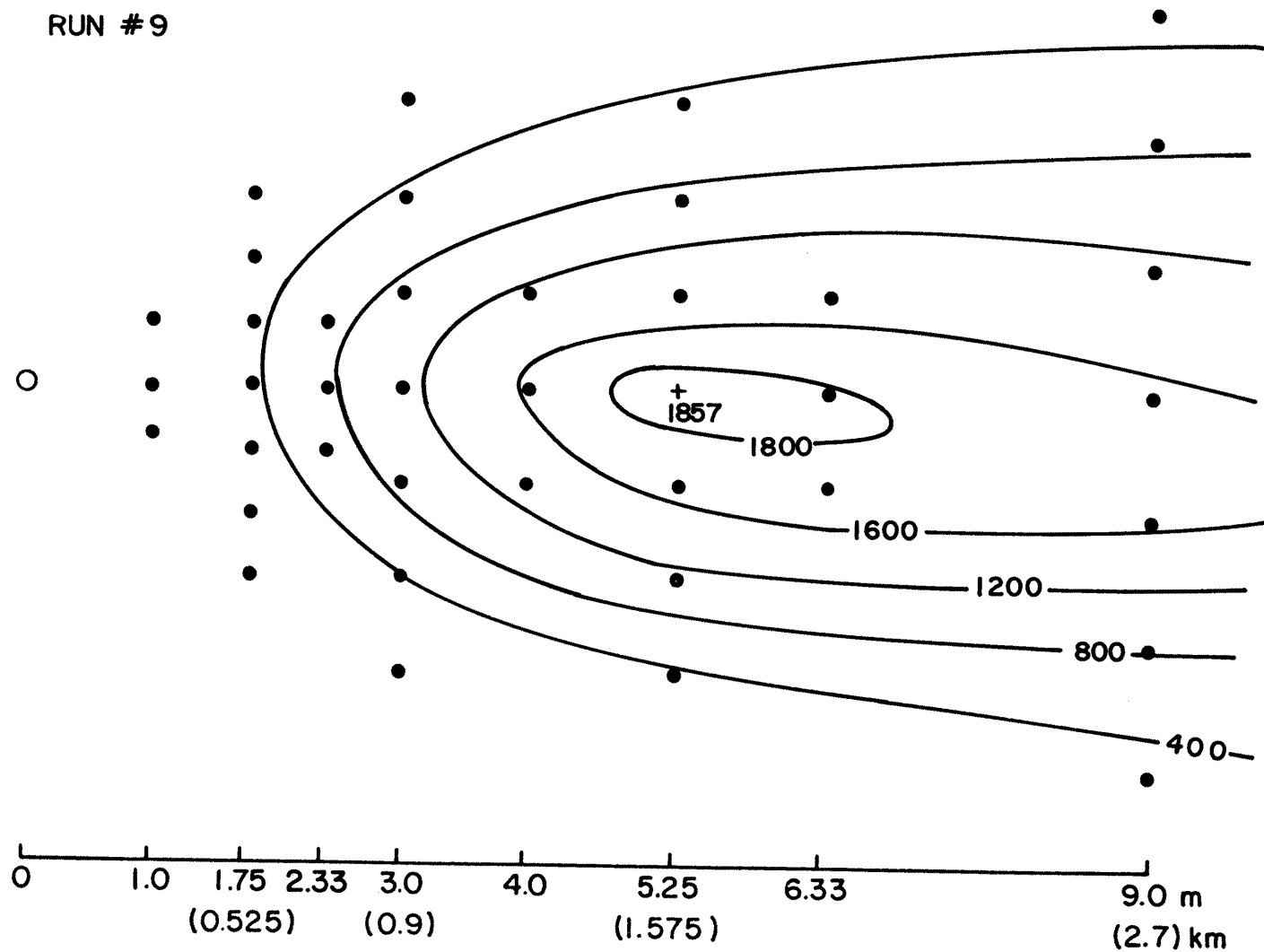
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g} / \text{m}^3$ )

RUN #8R STACK #2



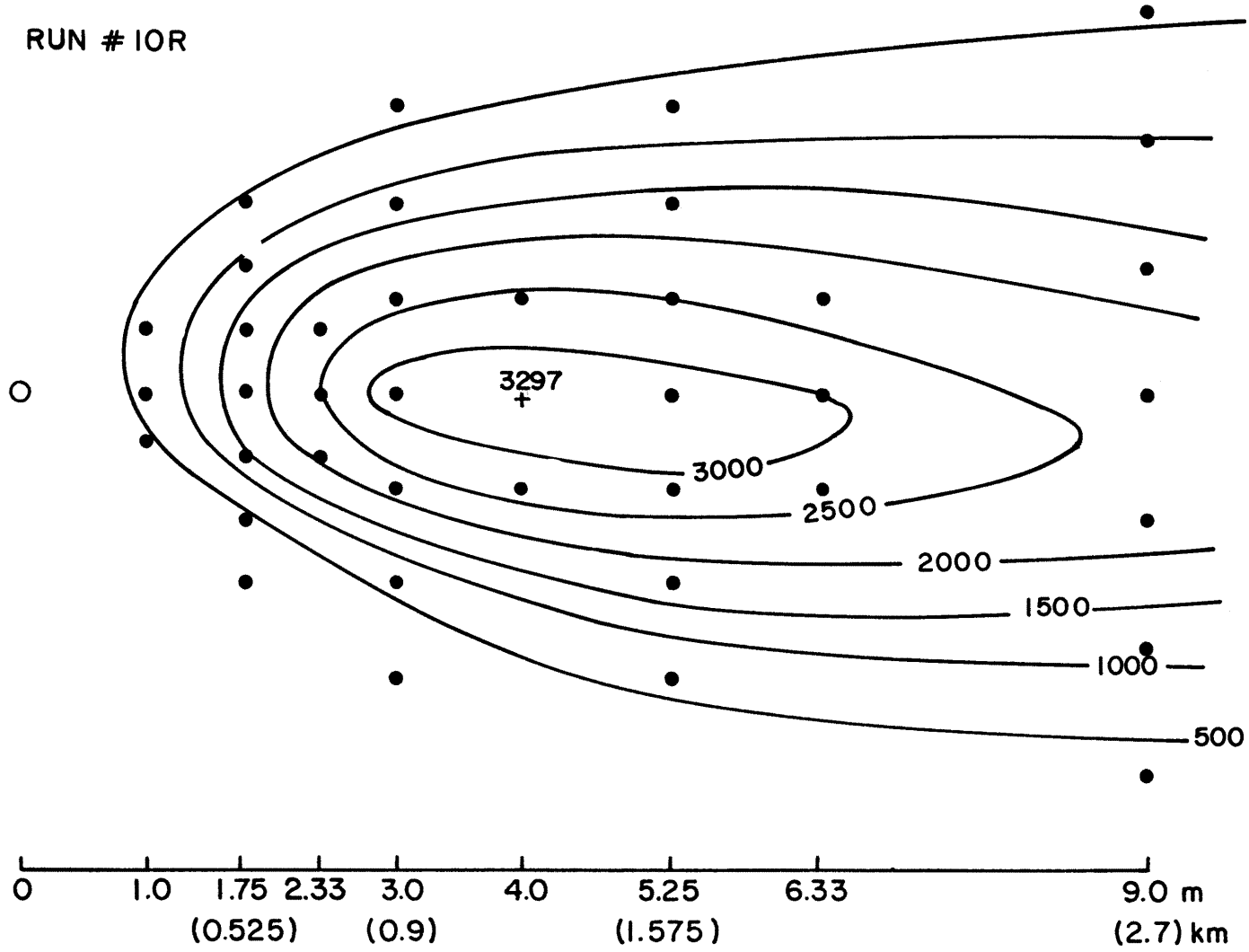
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #9



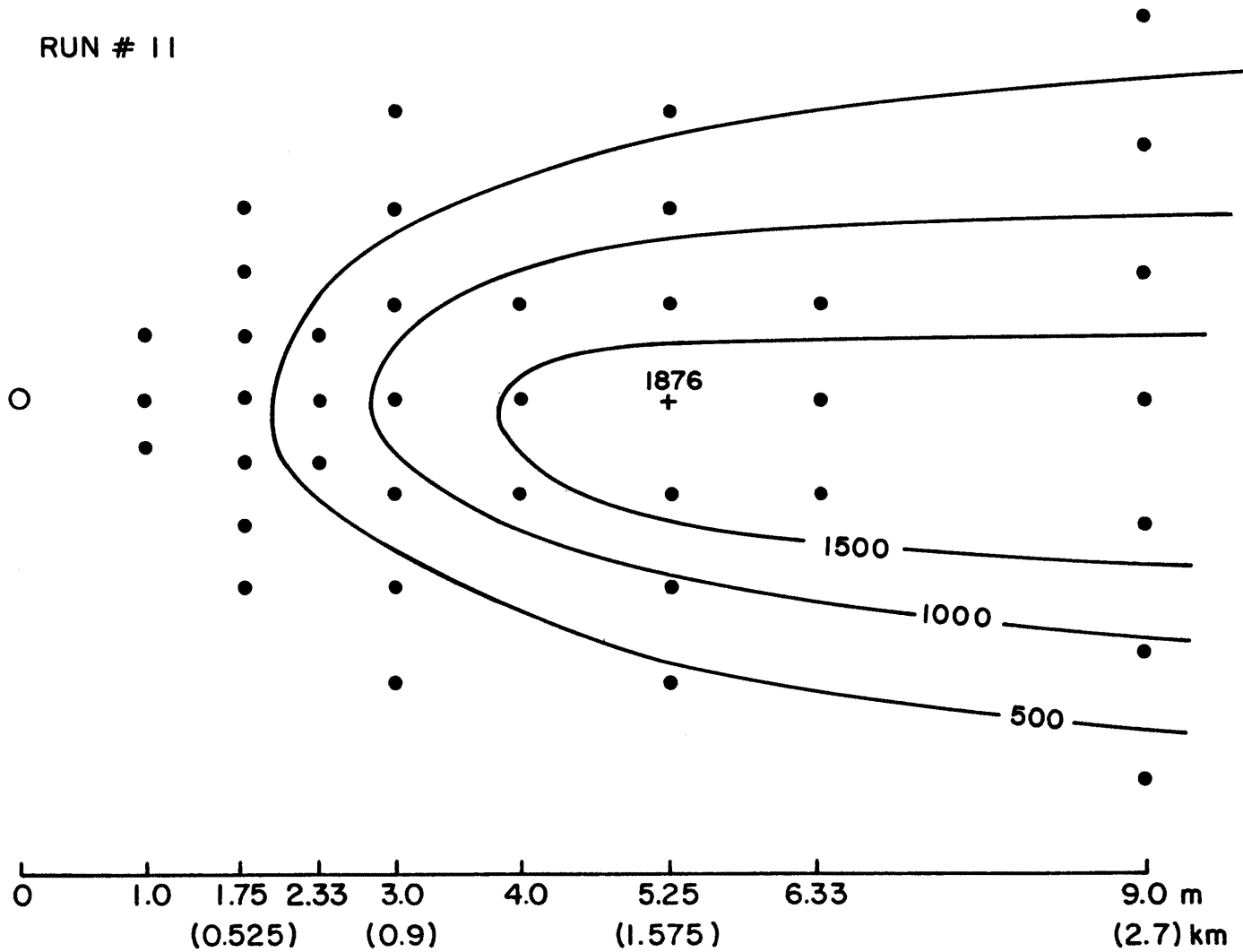
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 10R



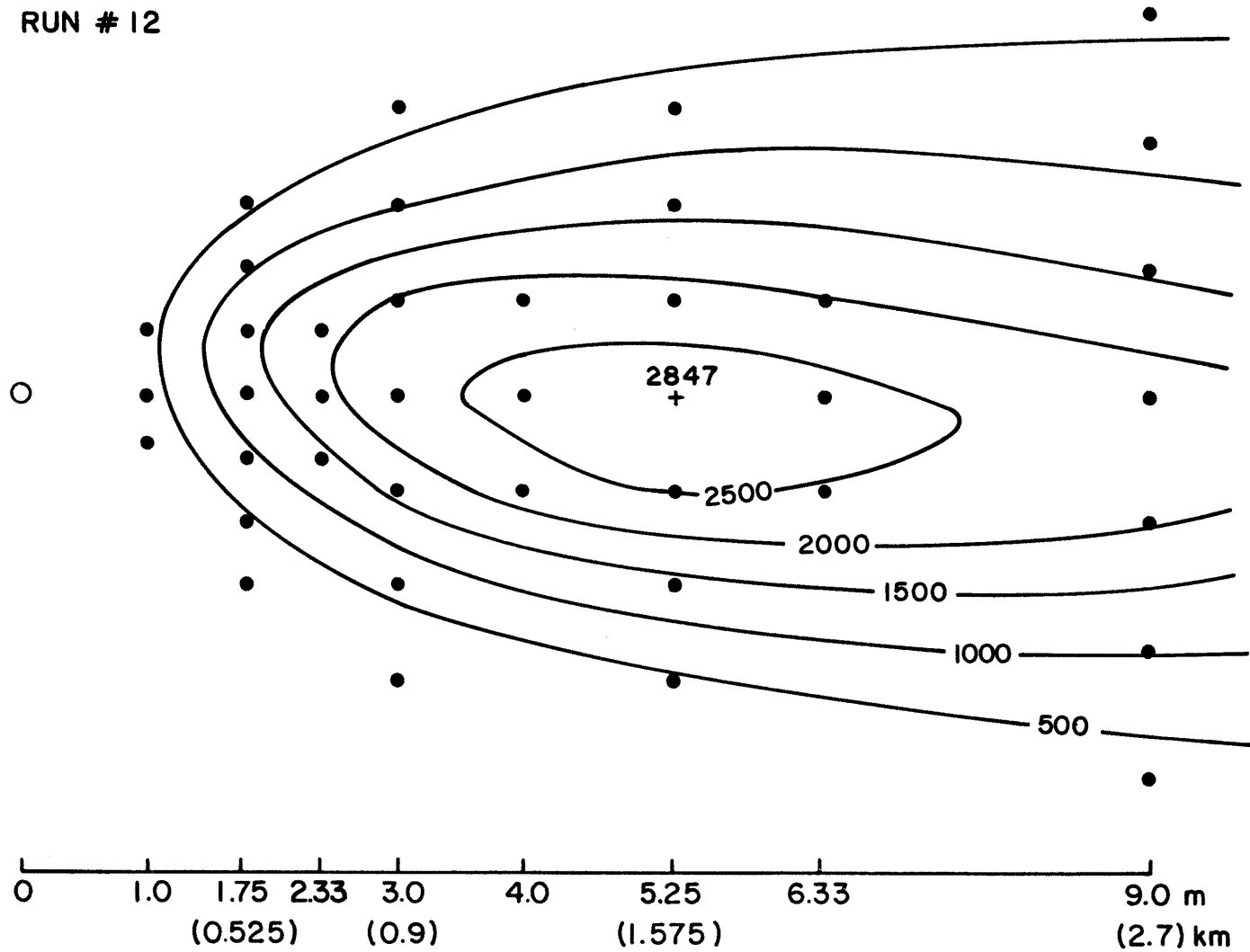
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 11



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

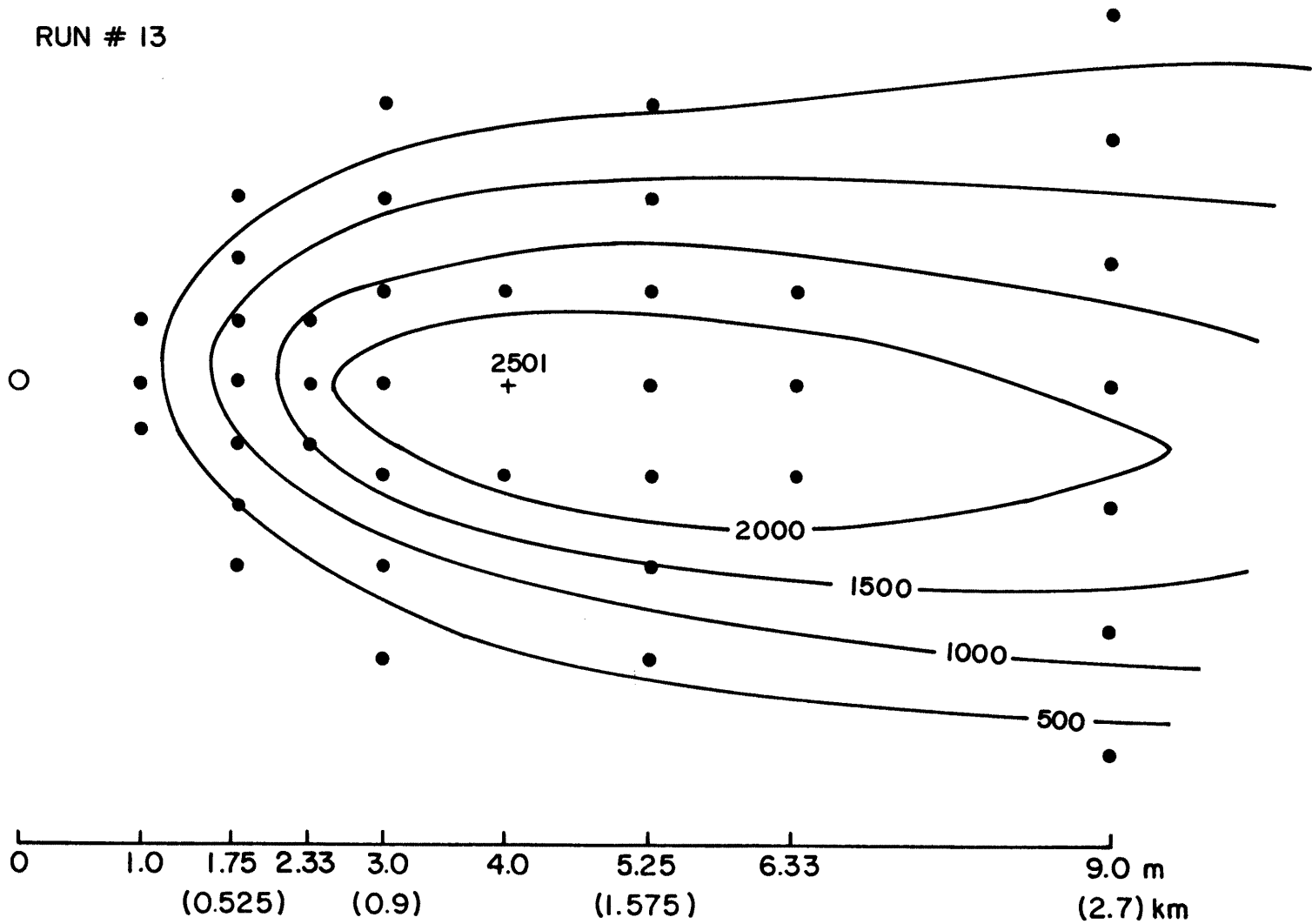
RUN # 12





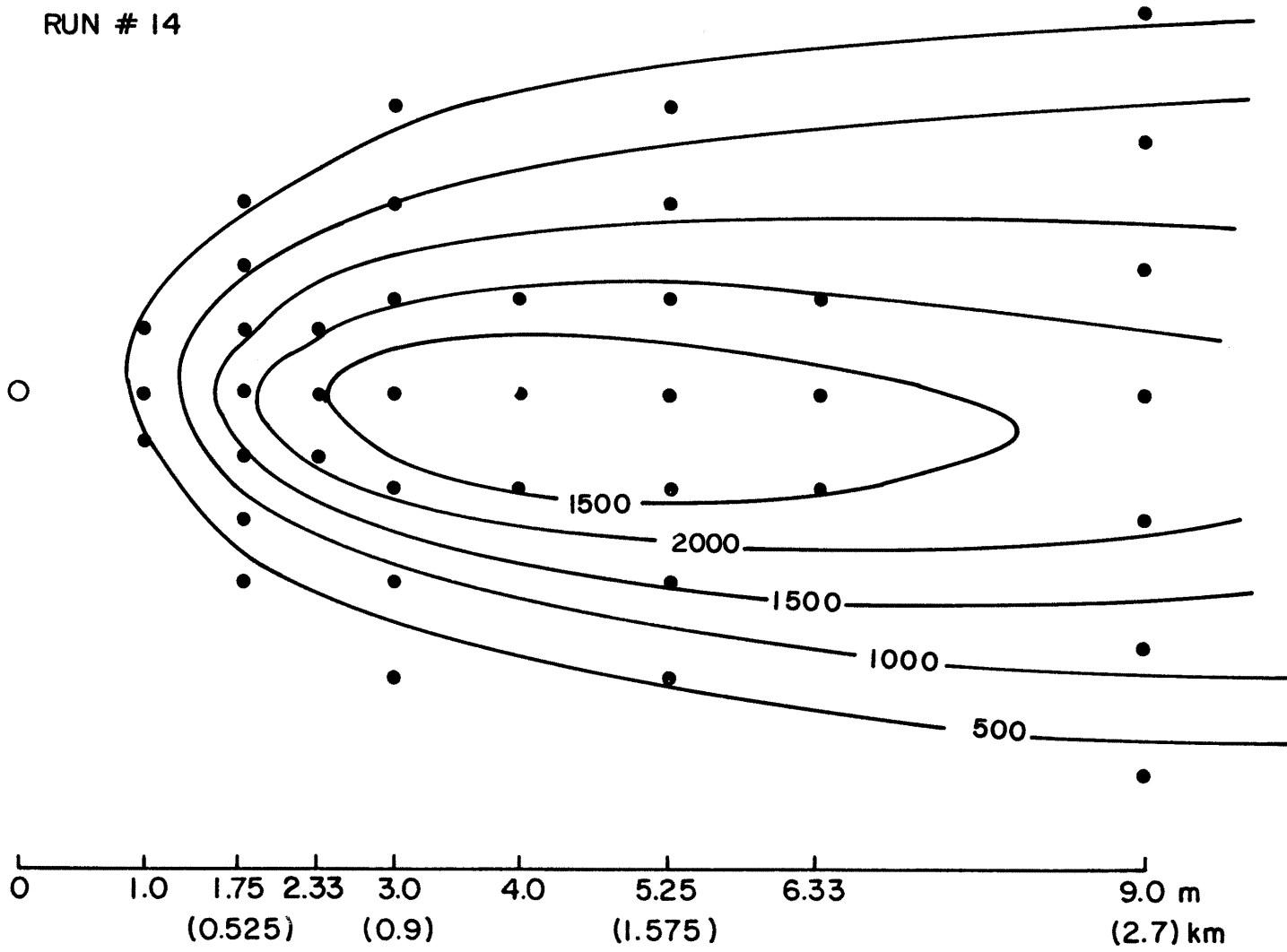
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 13



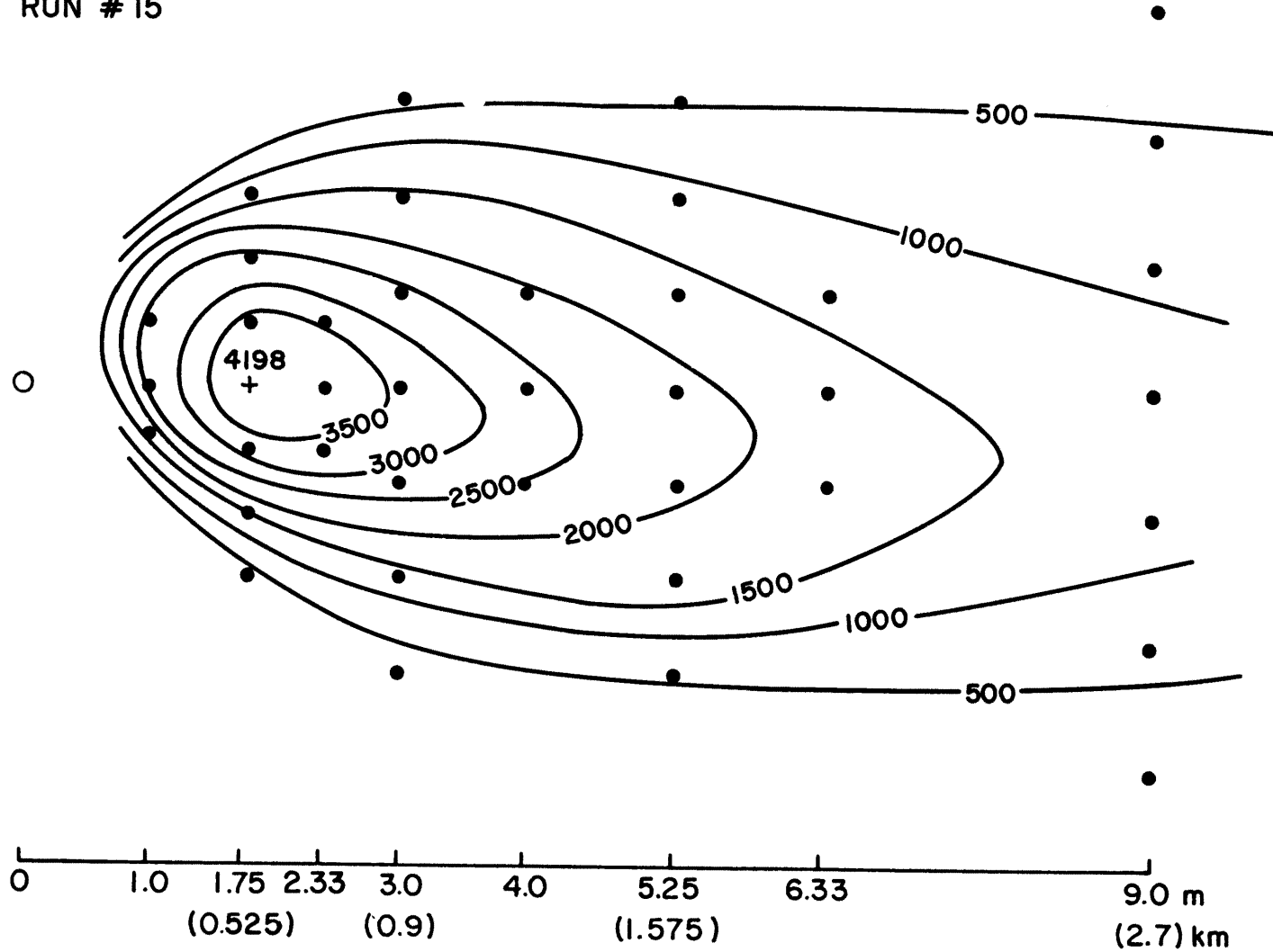
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 14



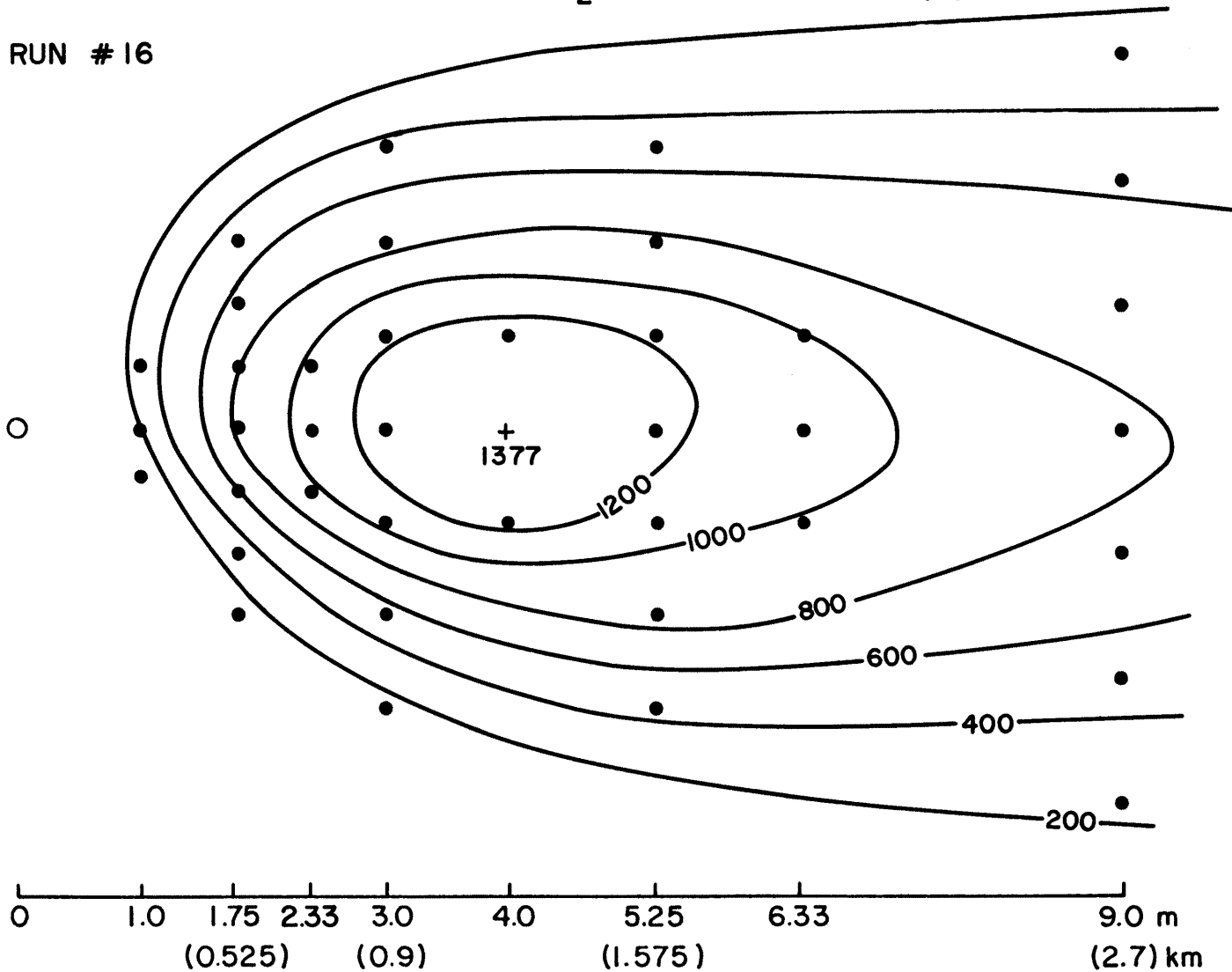
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 15



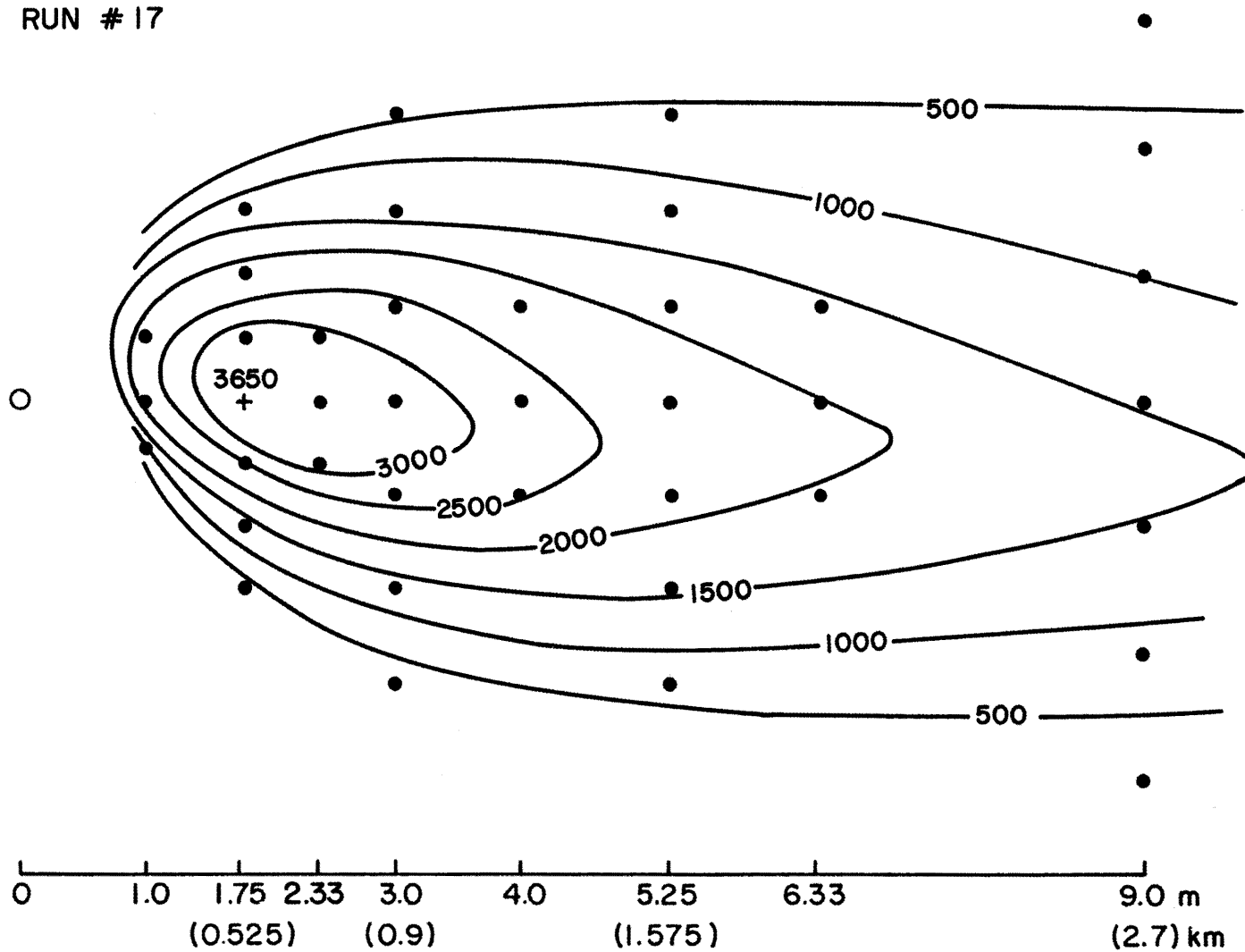
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #16



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 17

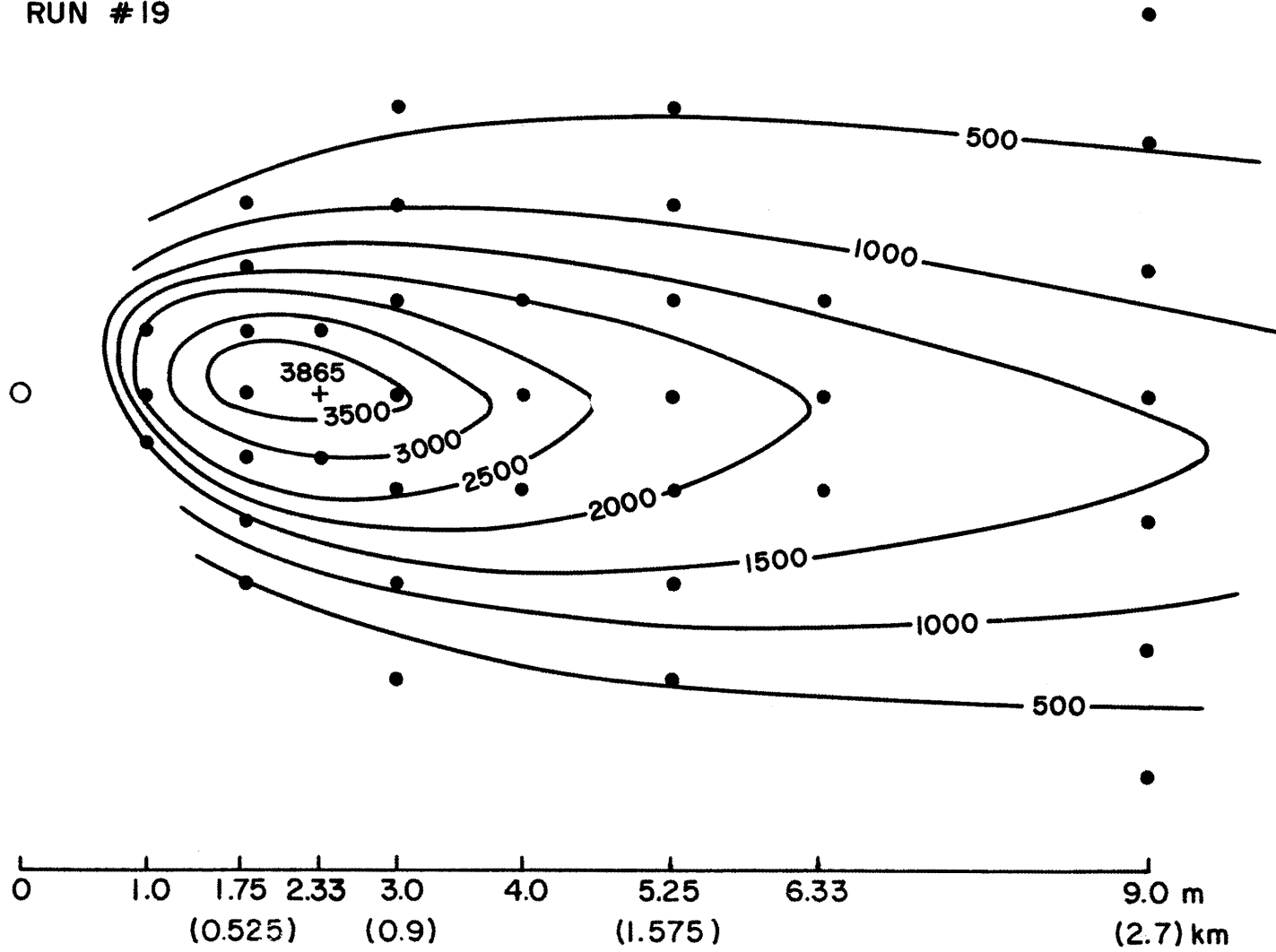






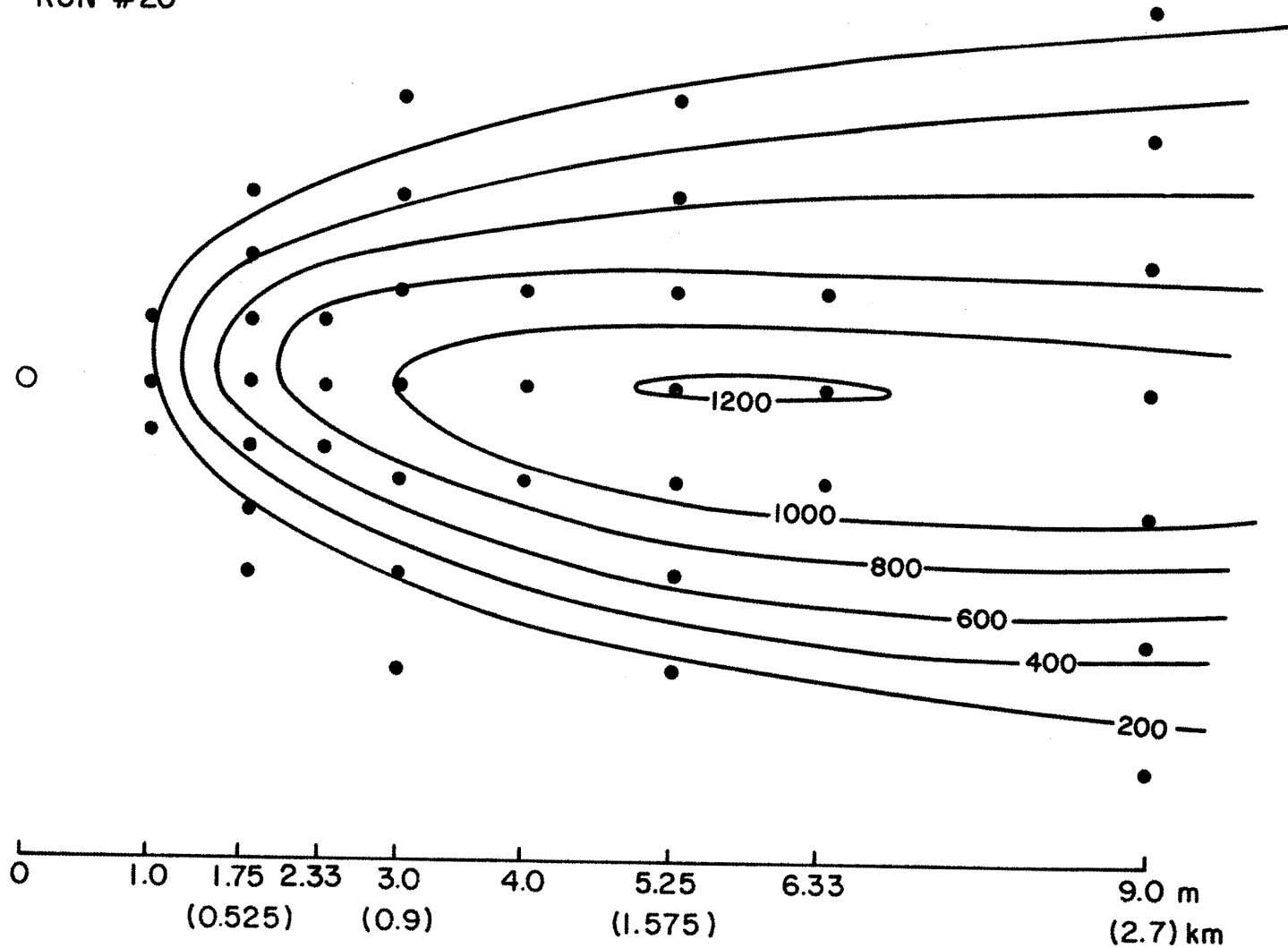
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #19



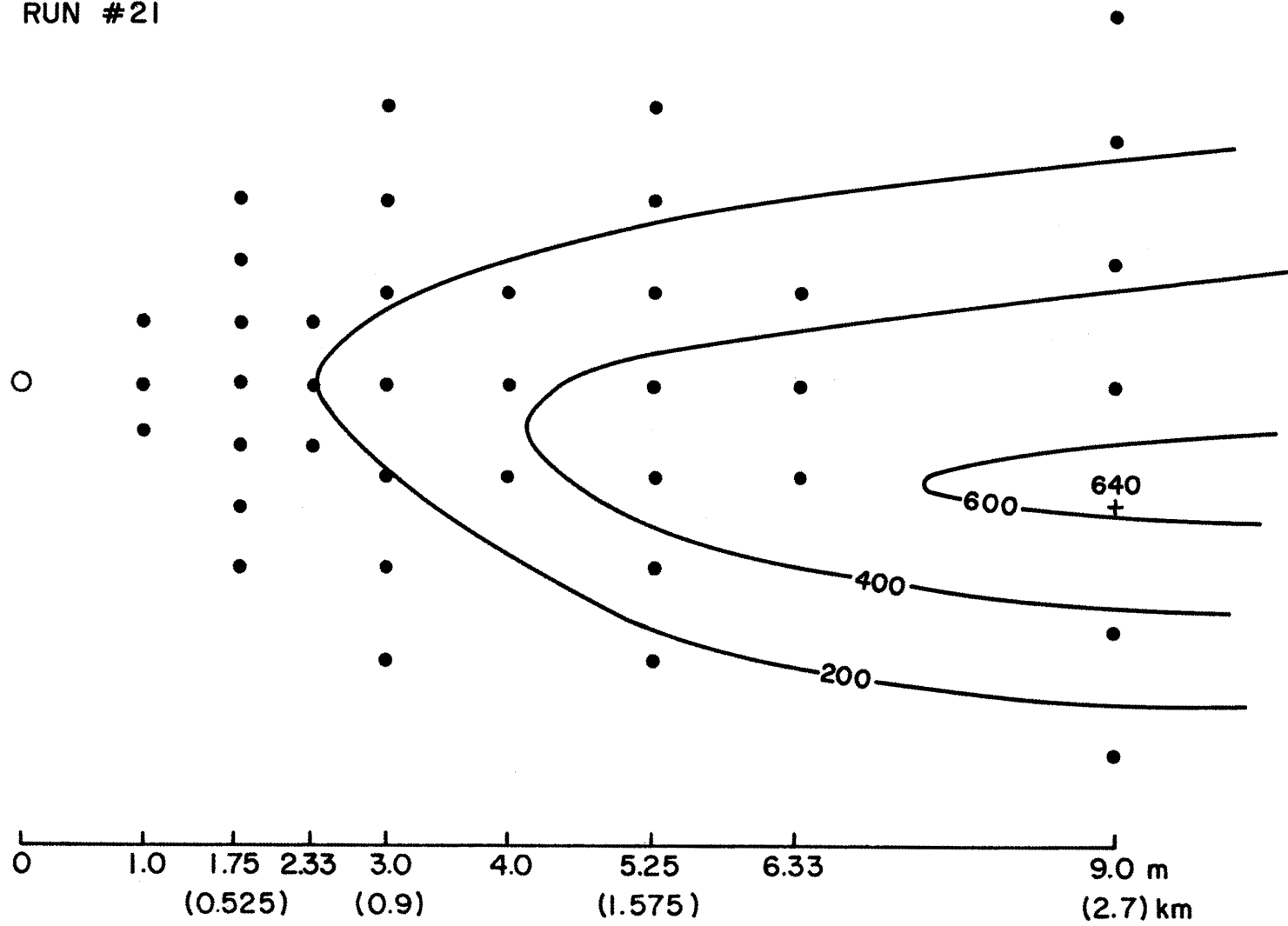
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #20



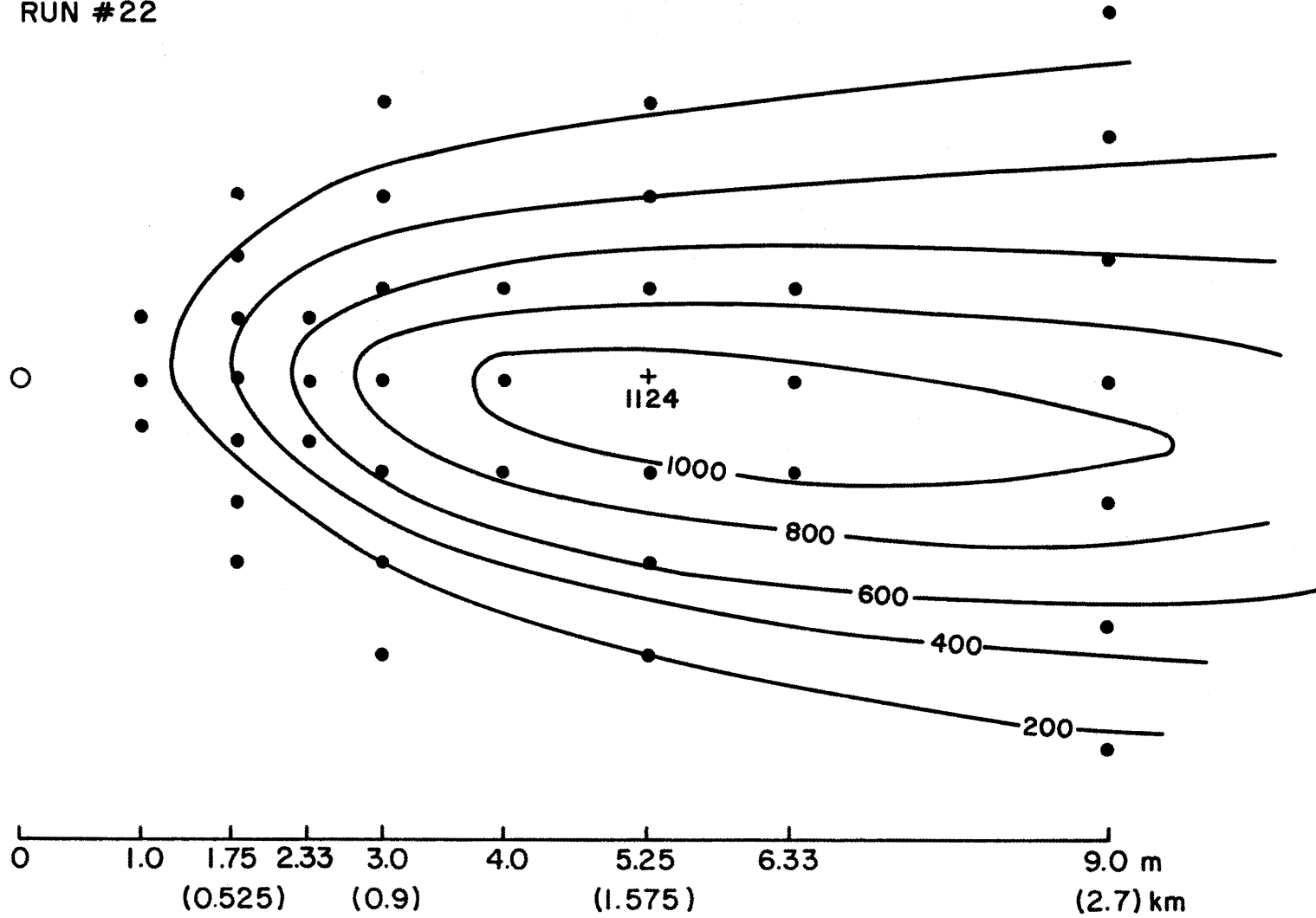
ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #21



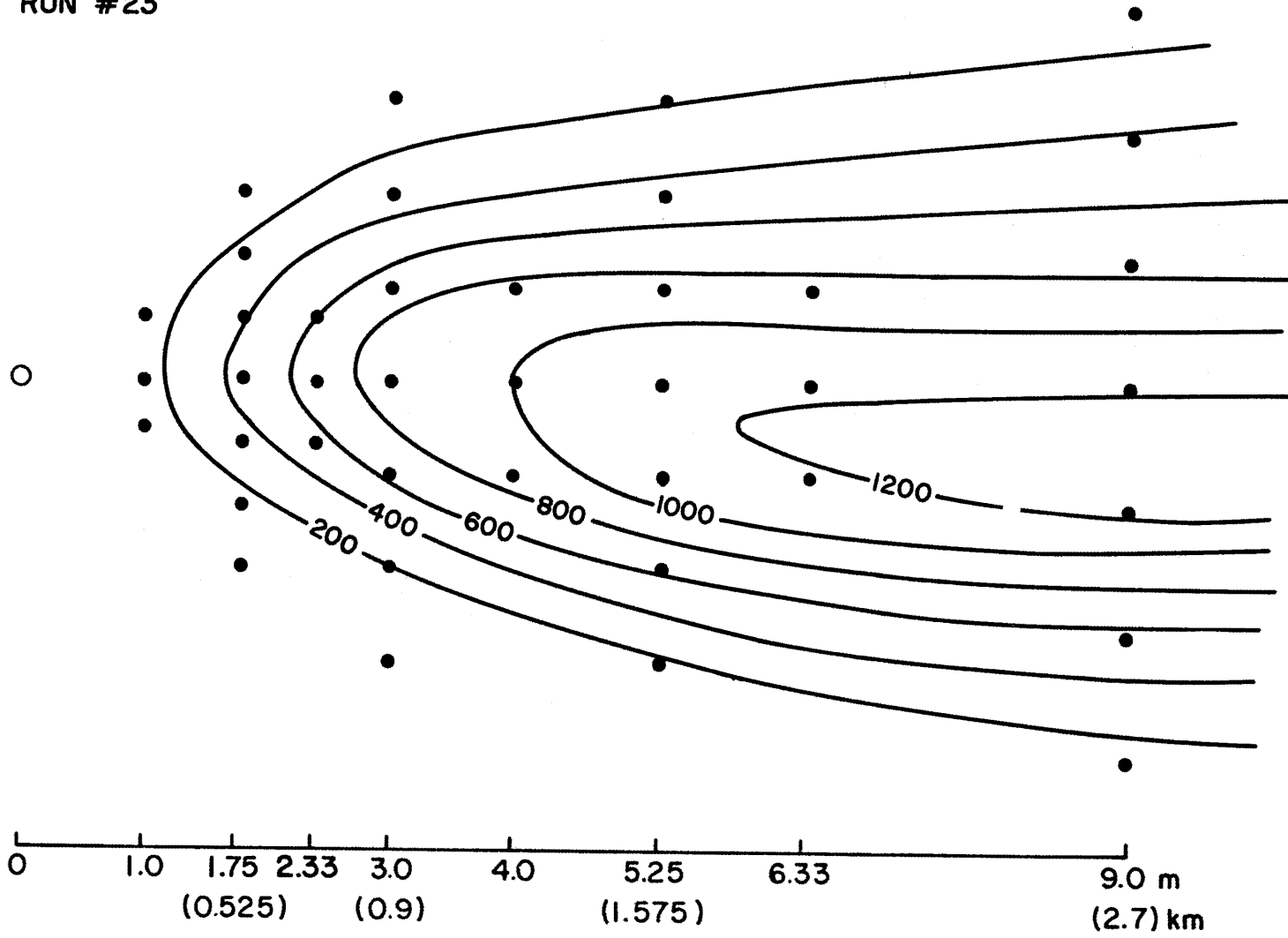
ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #22



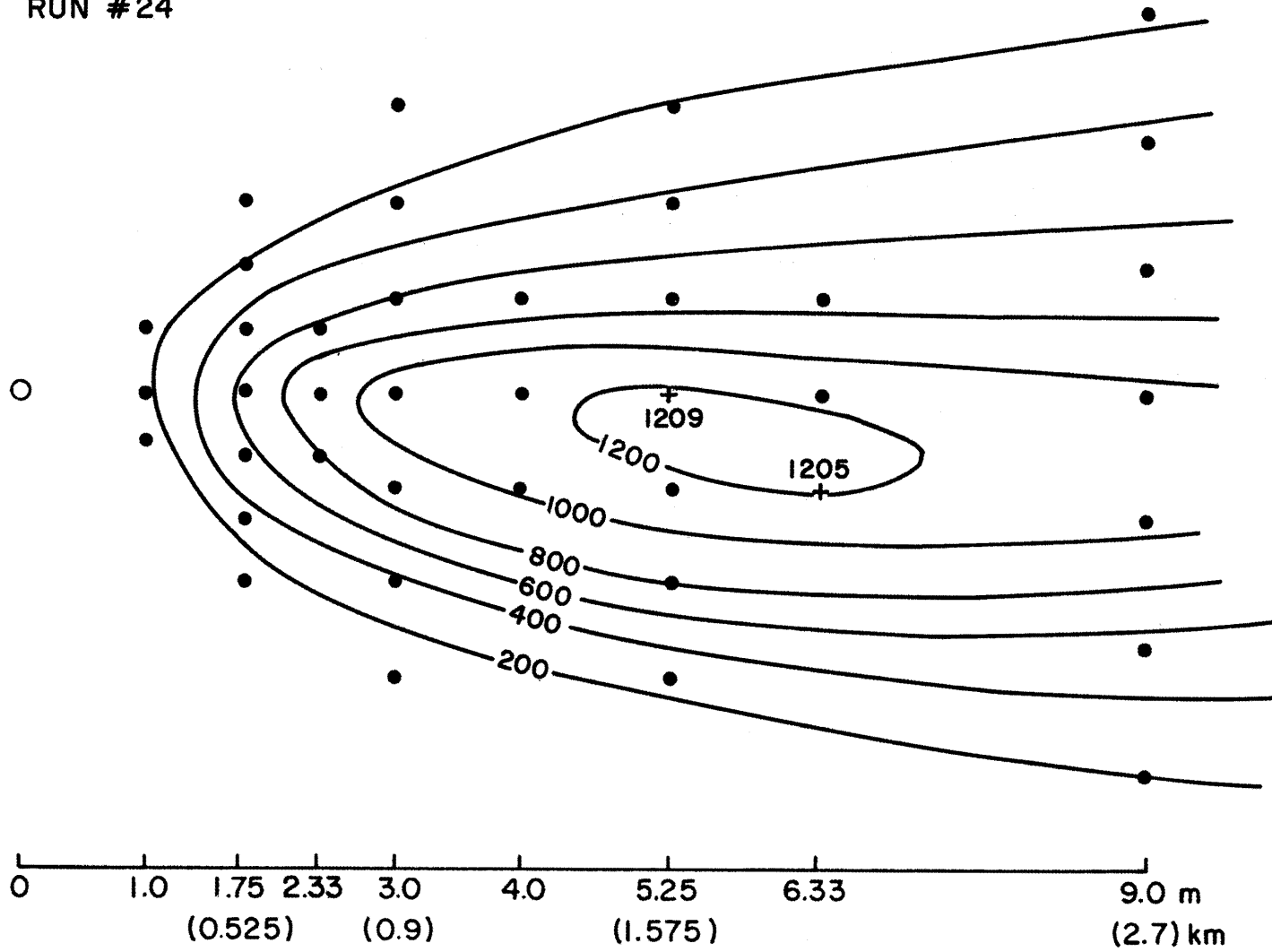
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #23



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

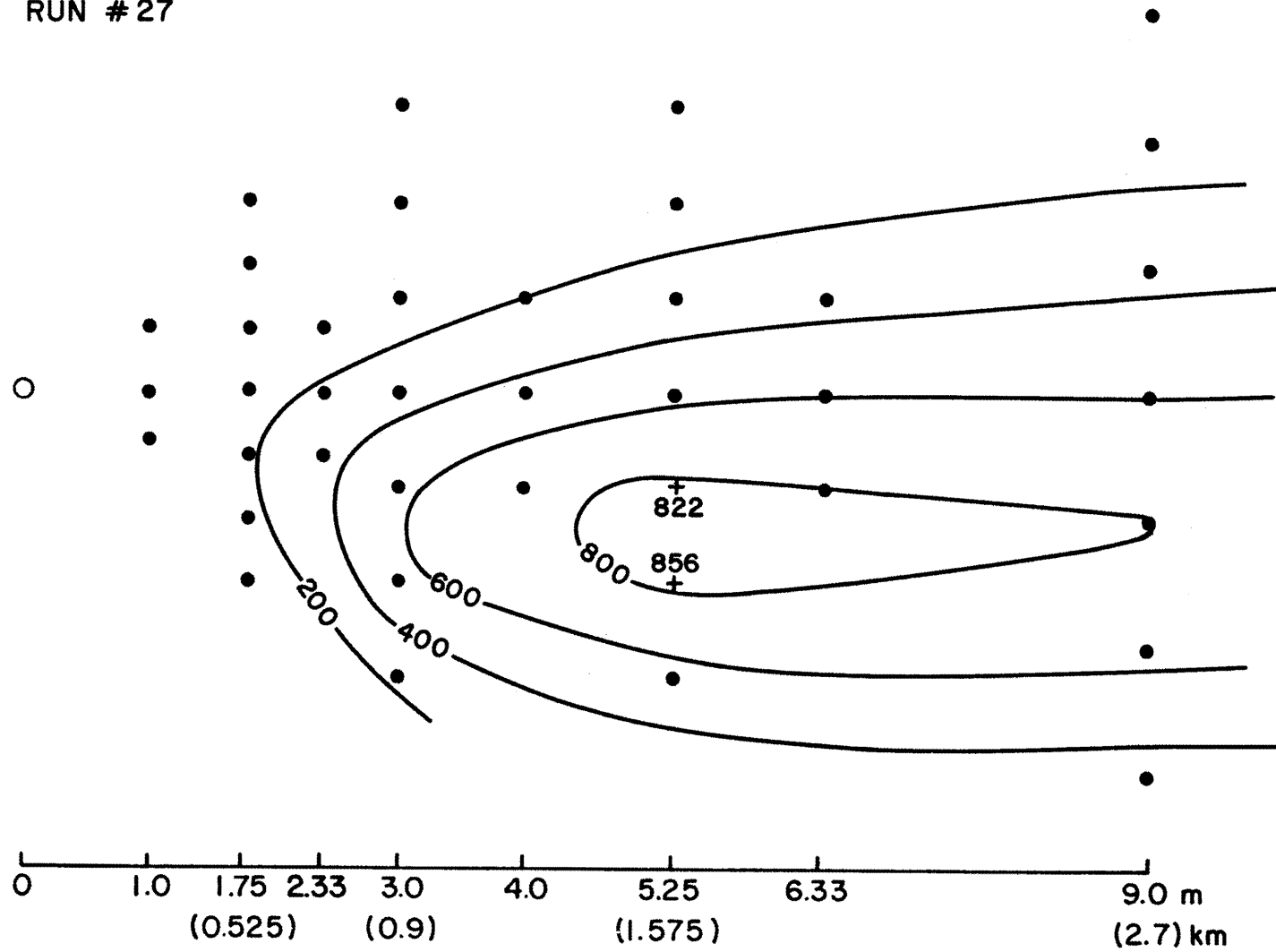
RUN #24





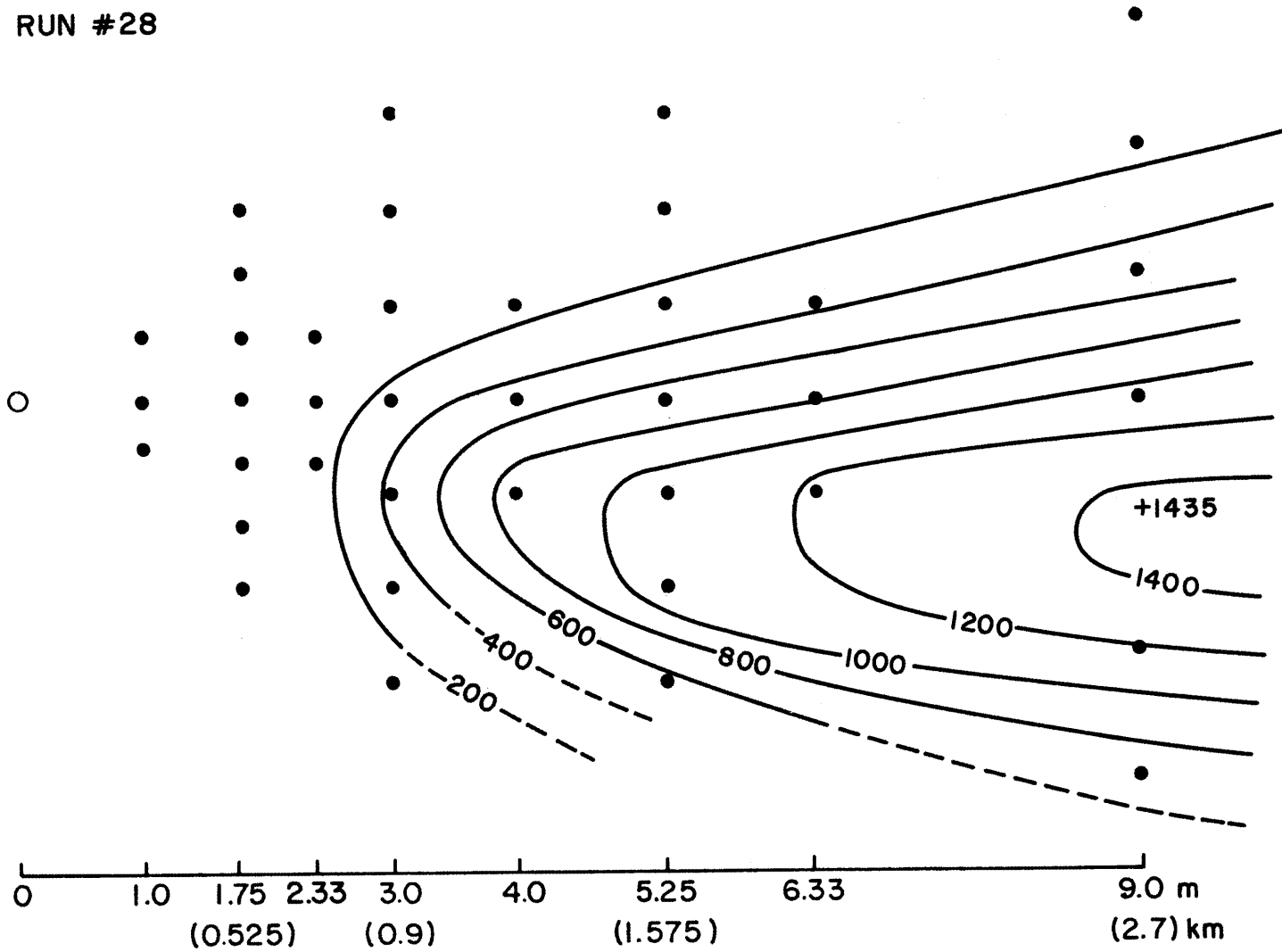
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 27



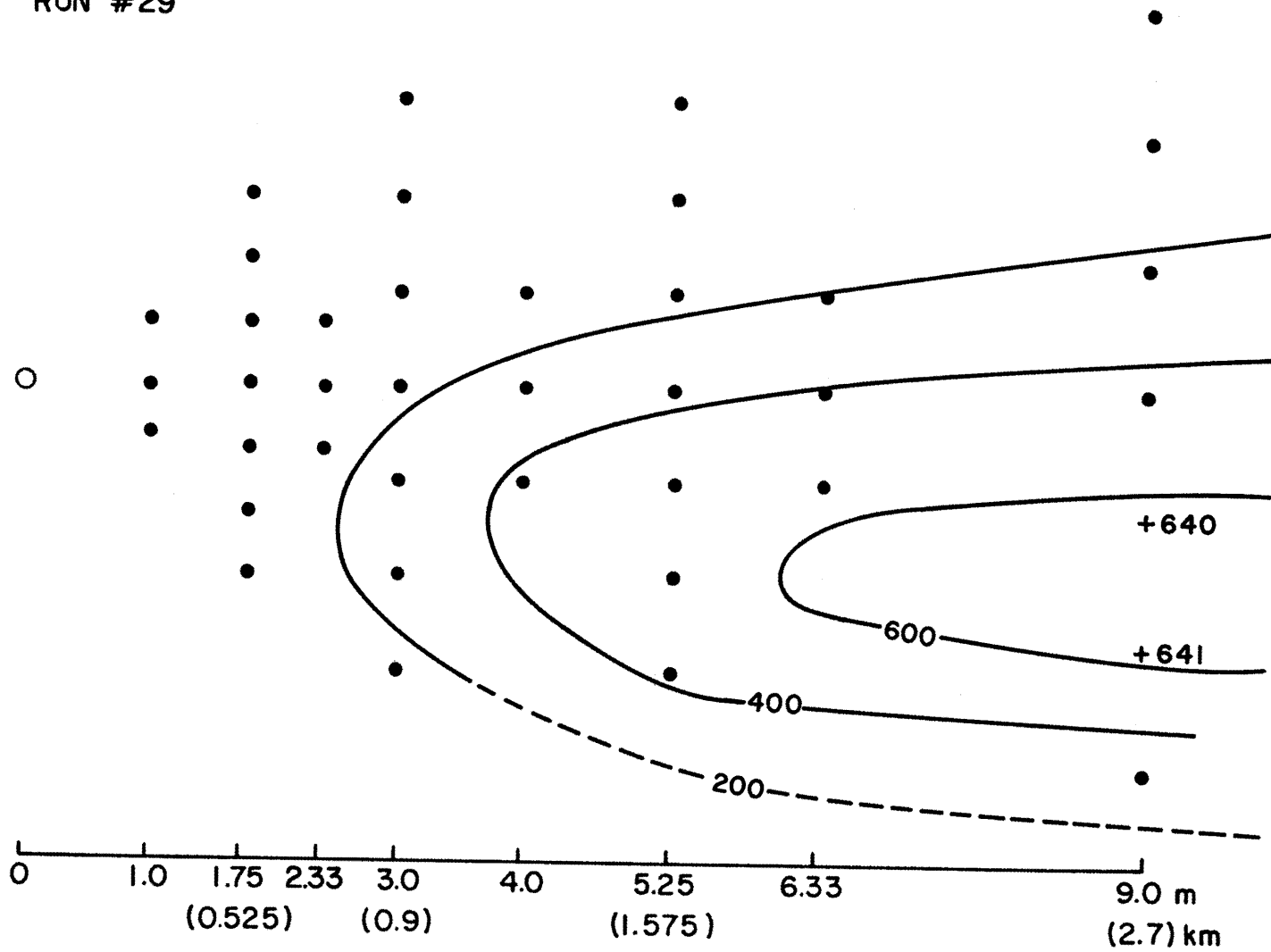
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #28



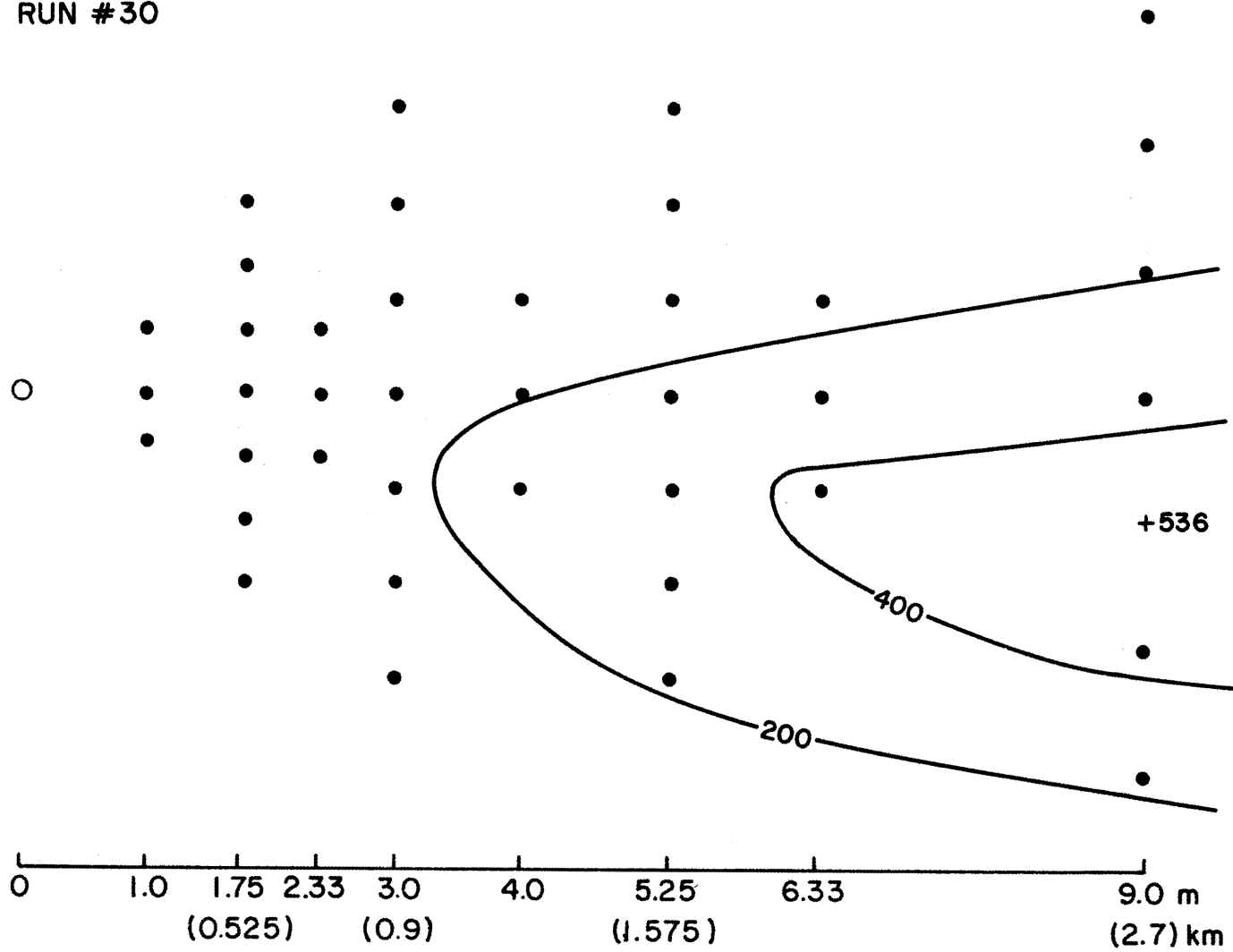
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #29



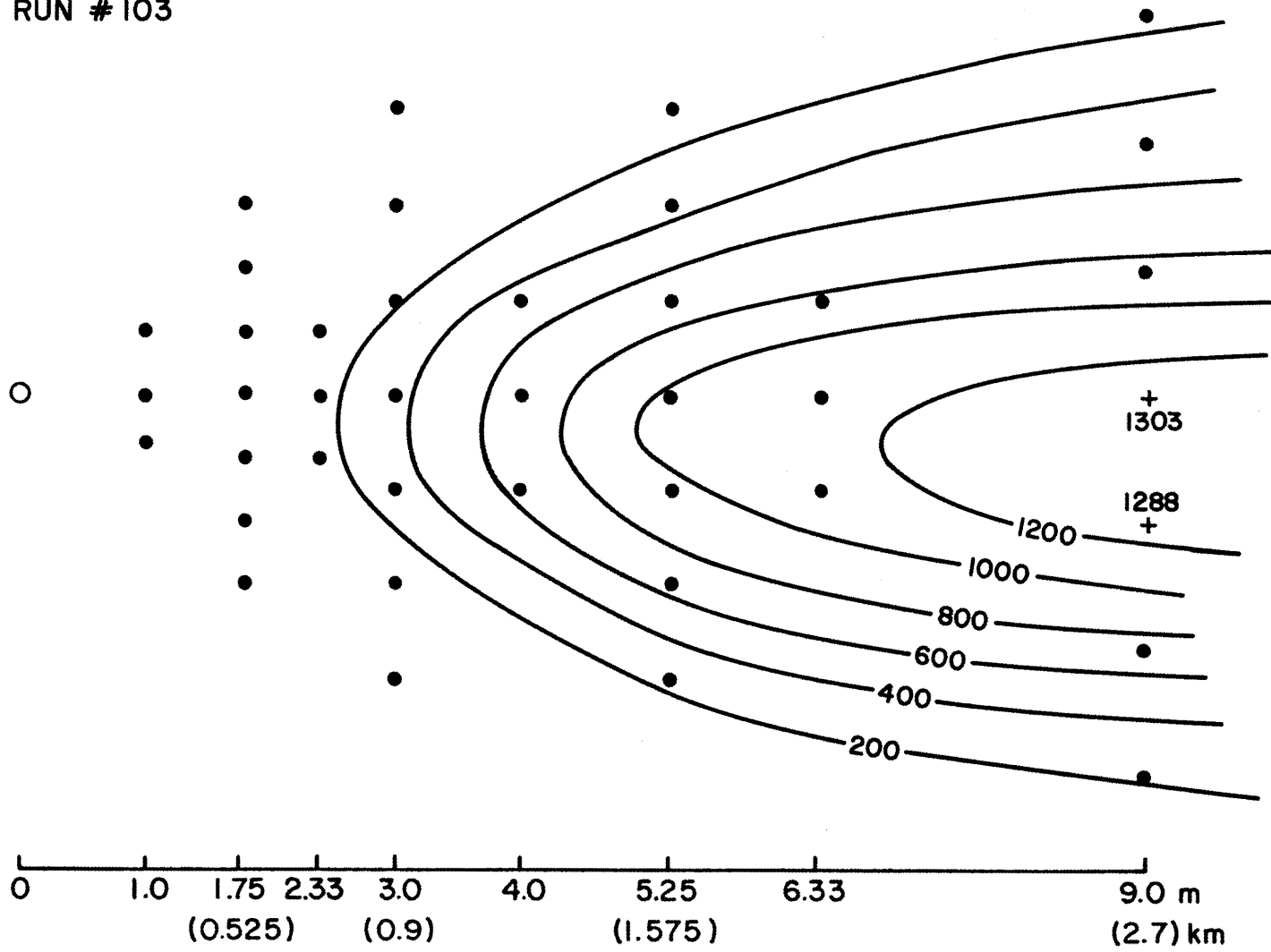
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #30



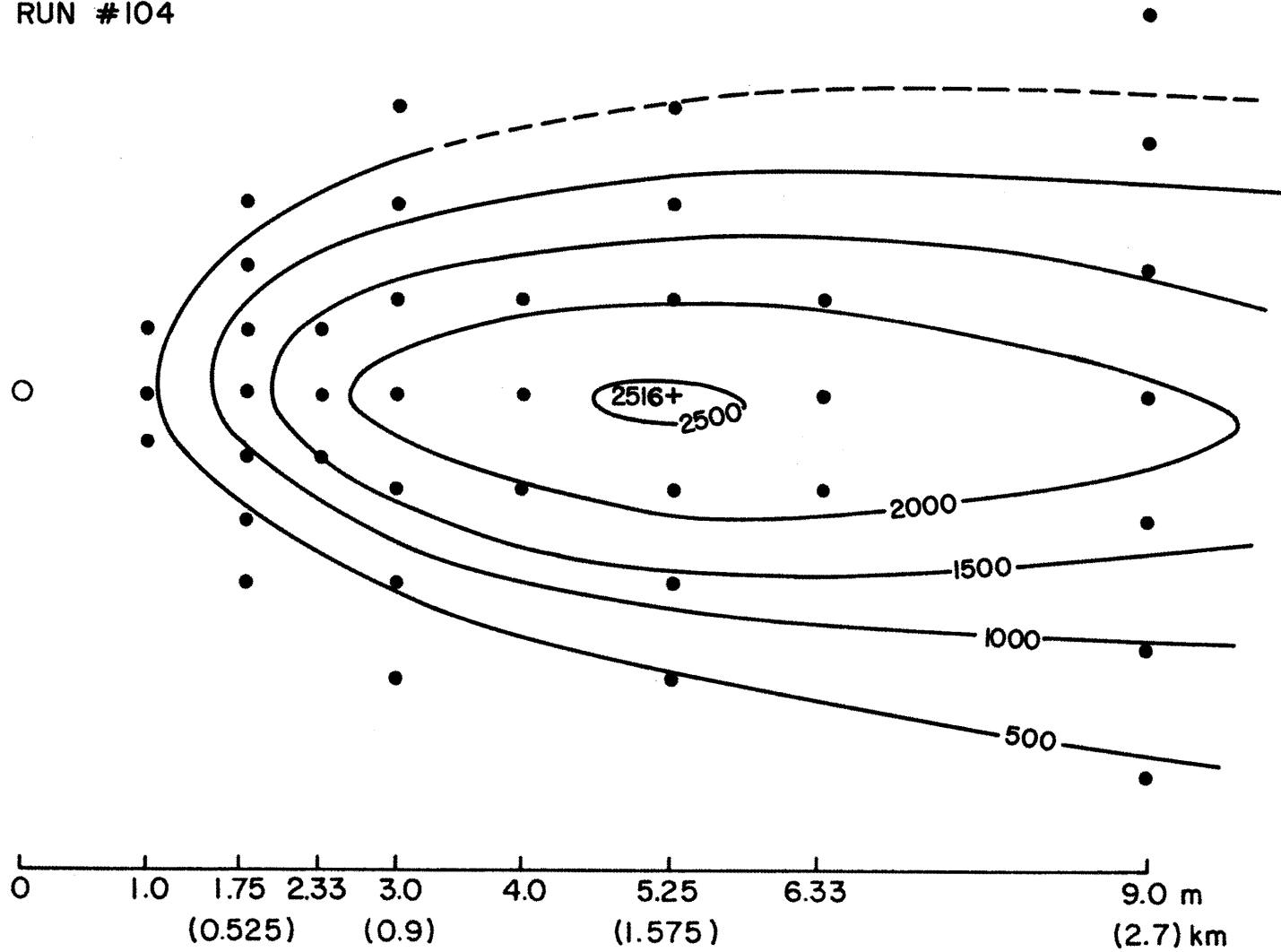
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 103



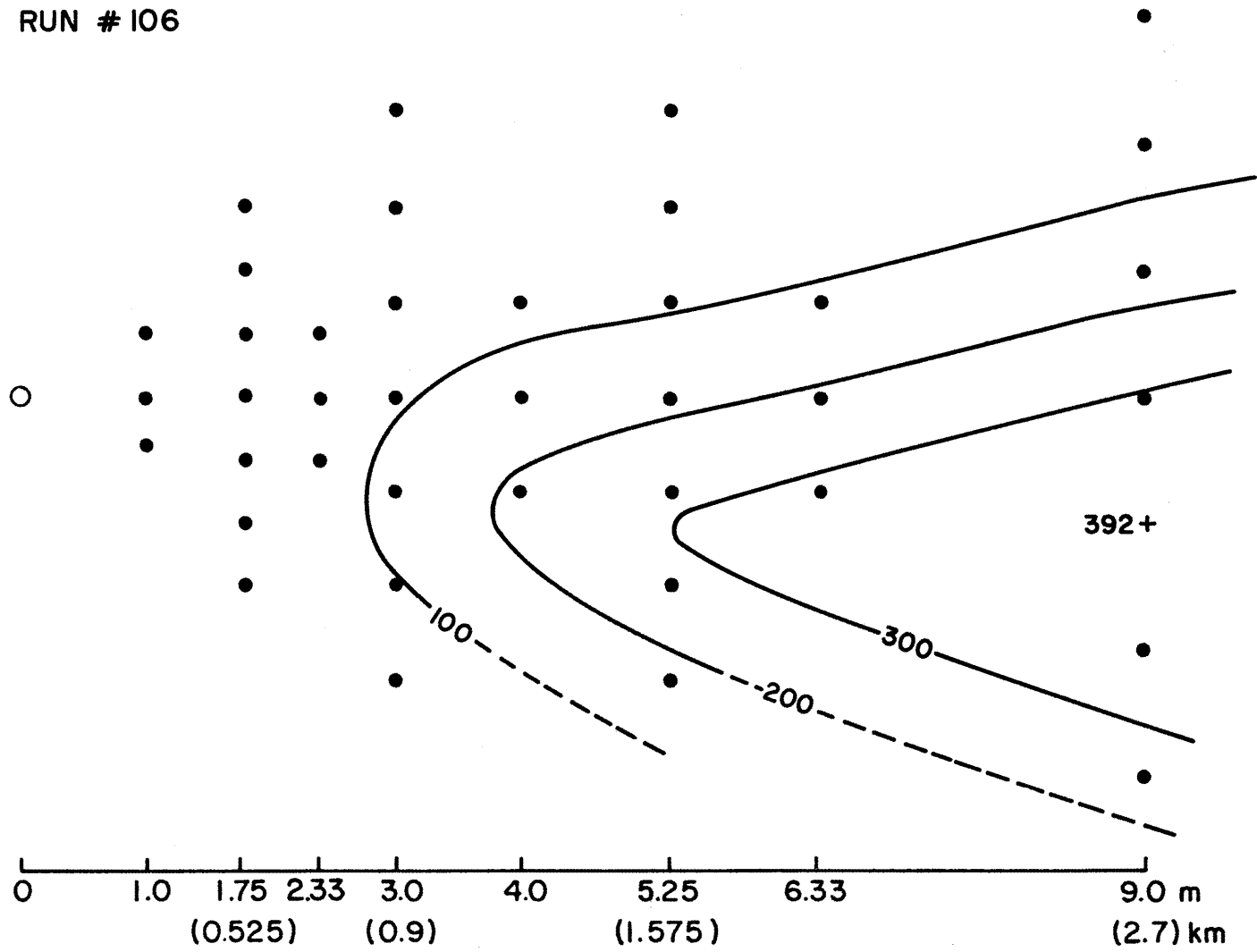
ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #104



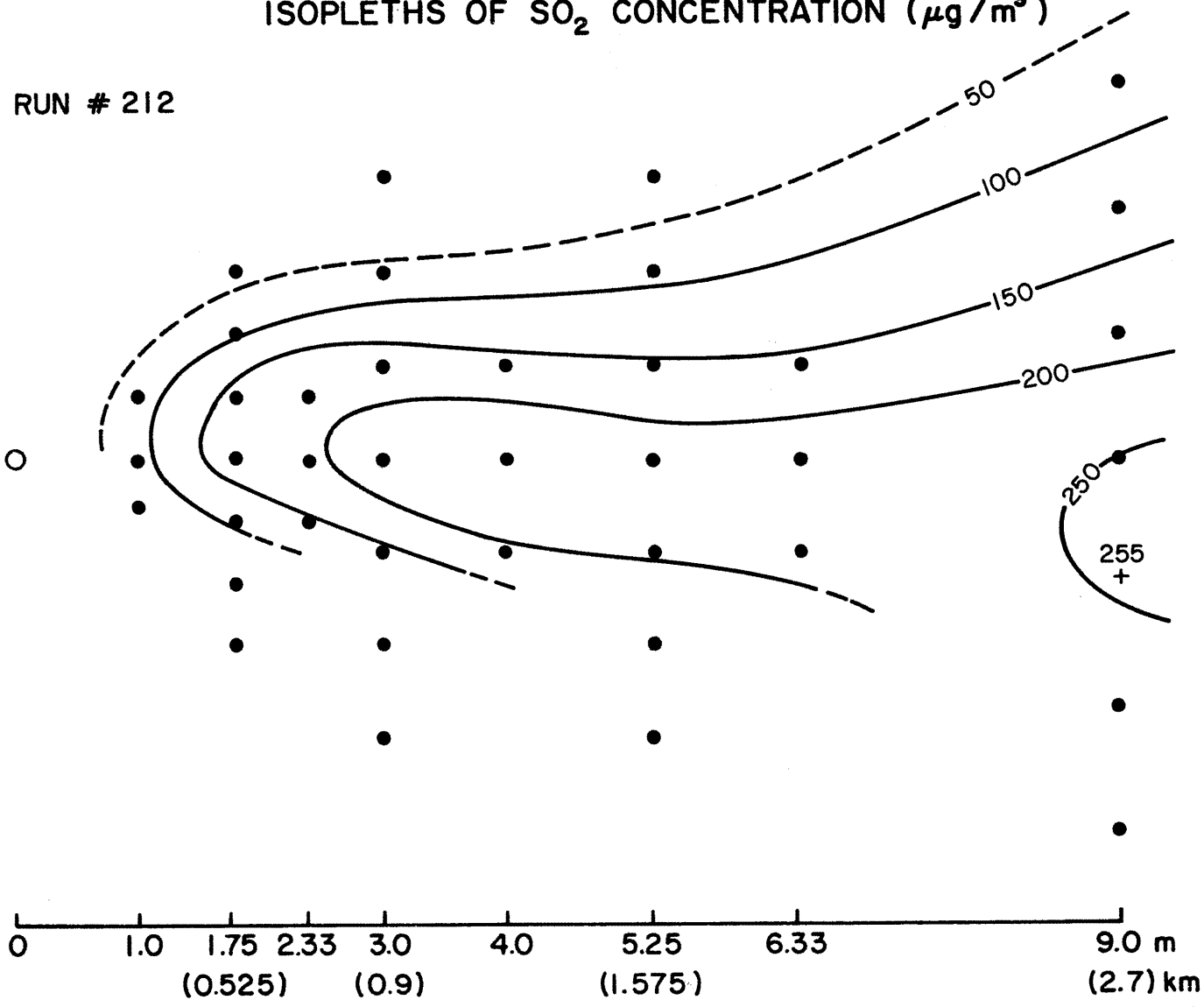
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 106



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

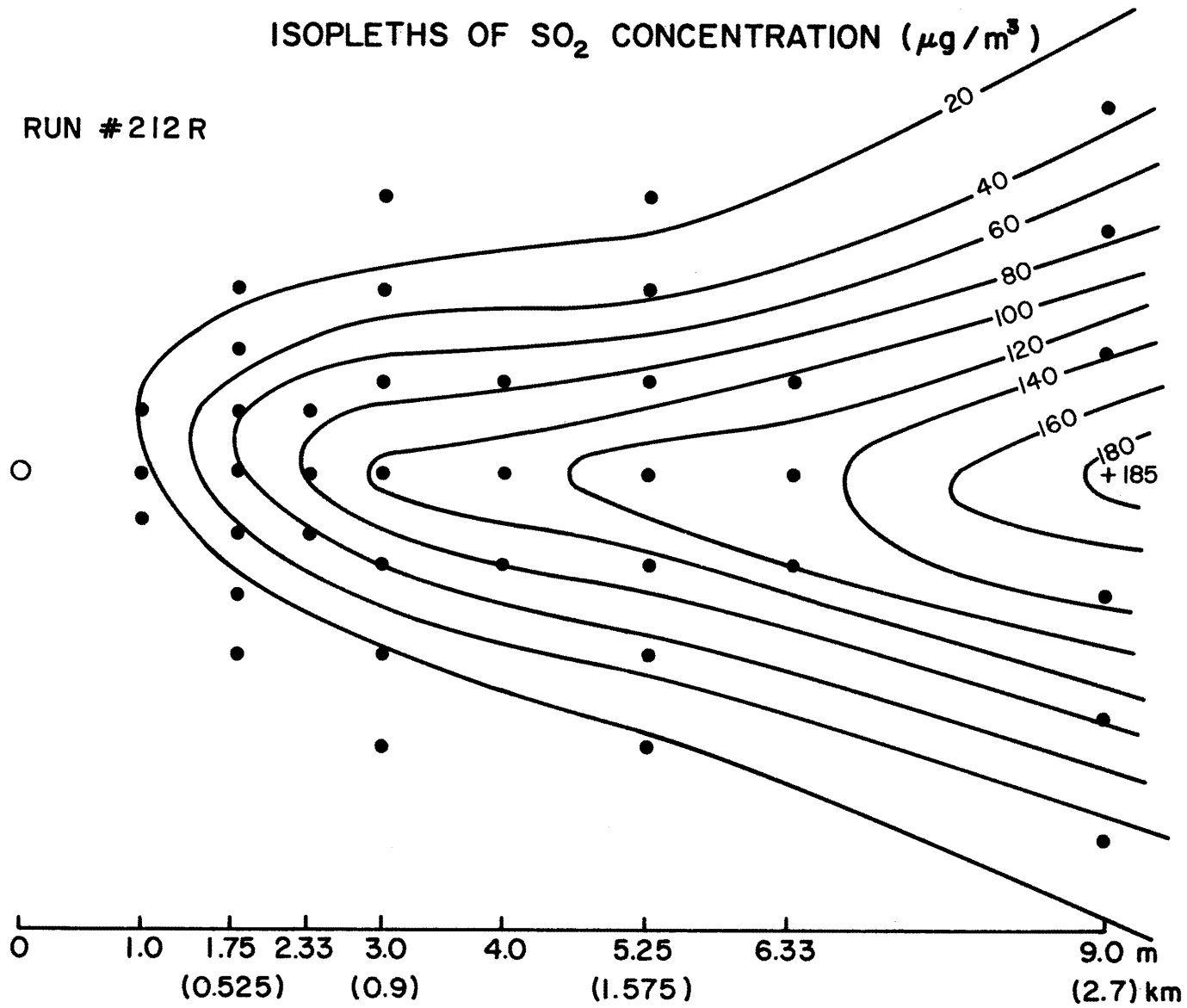
RUN # 212





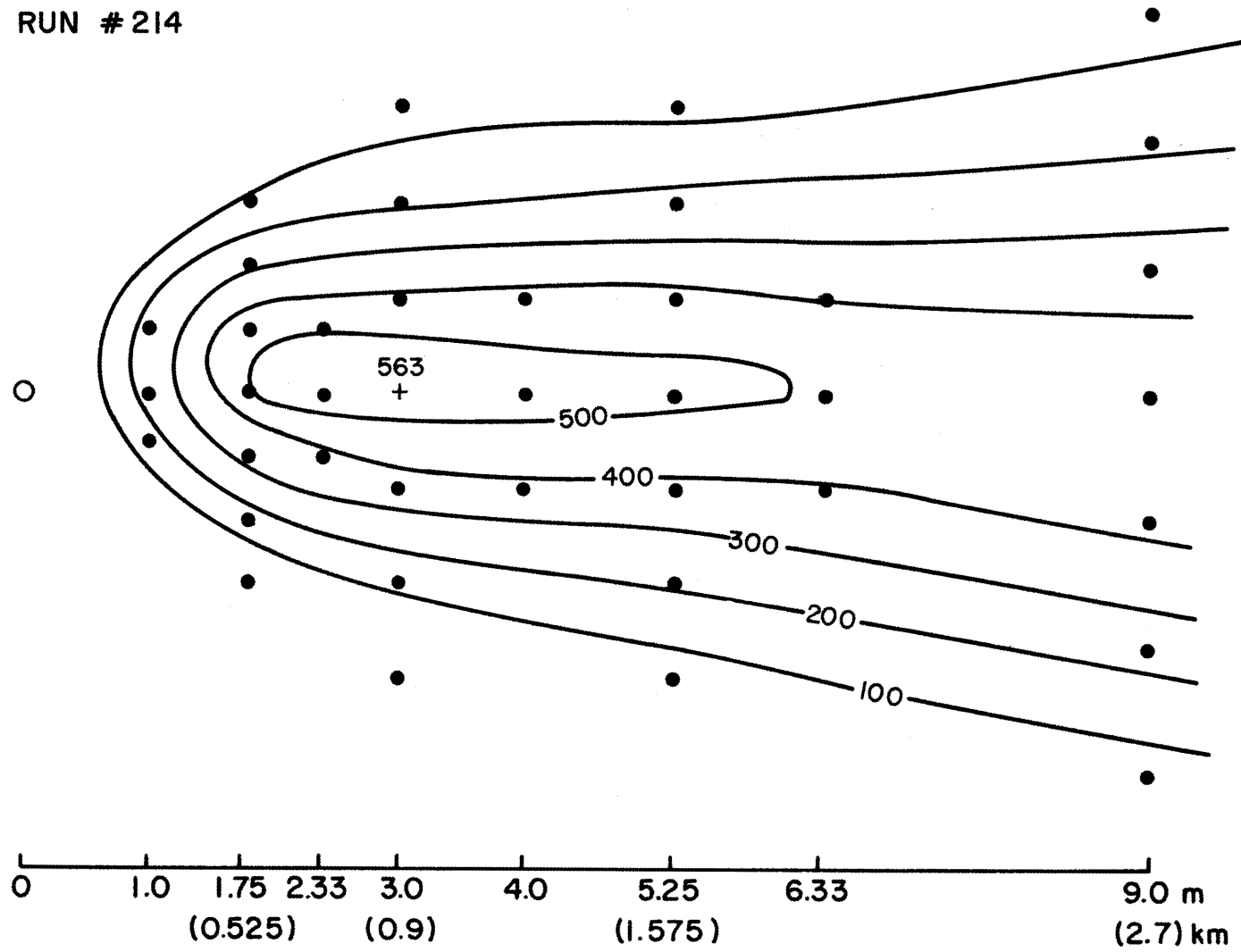
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #212 R



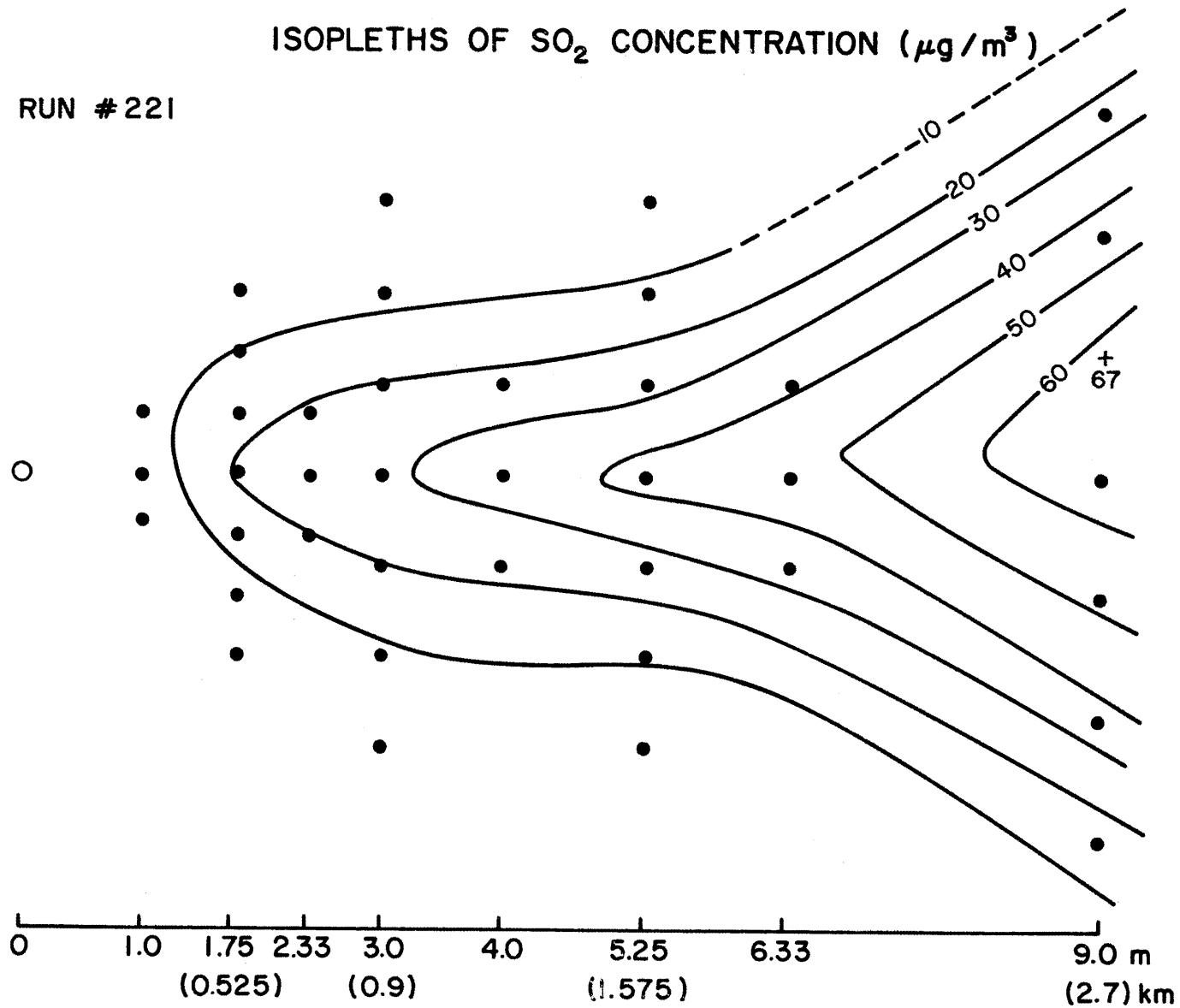
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 214



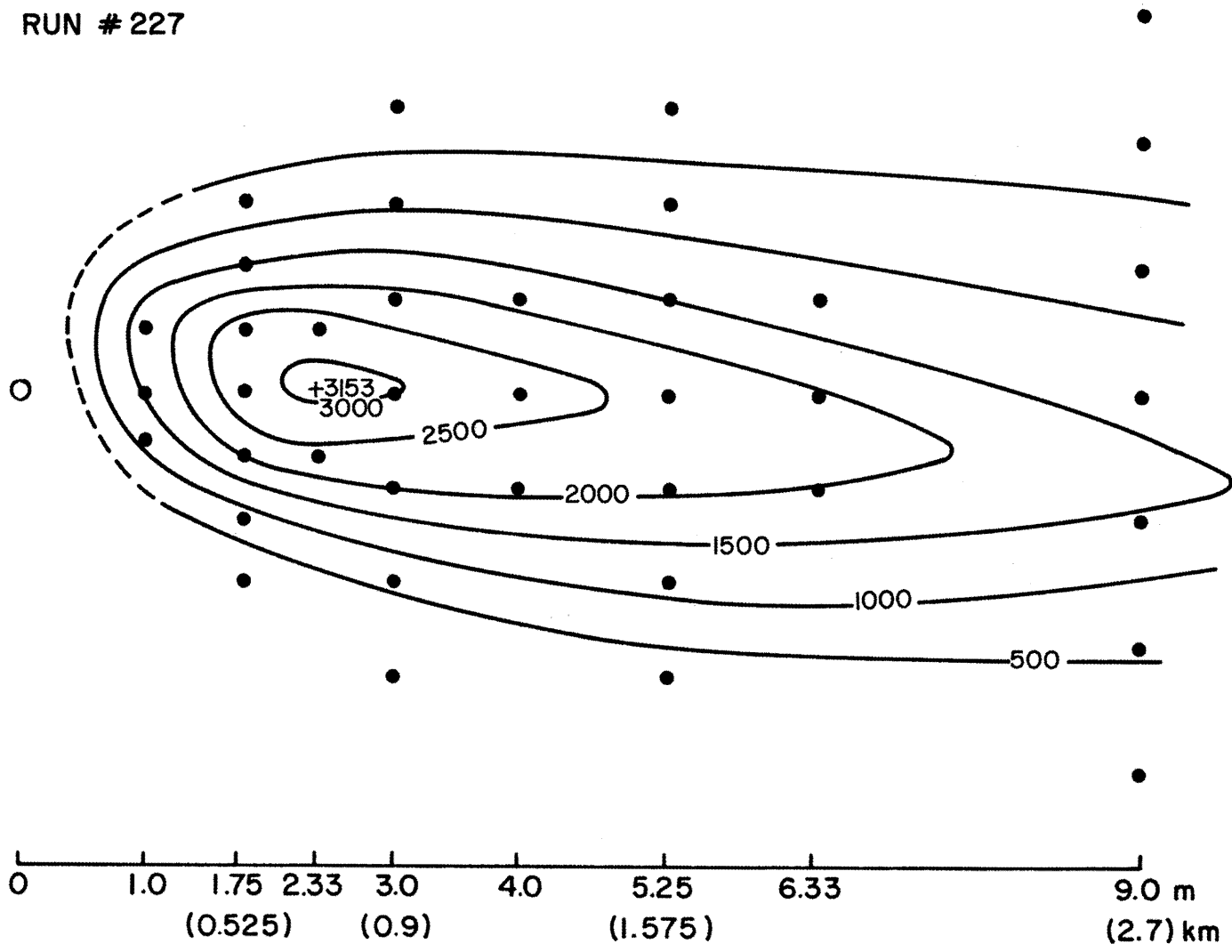
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 221



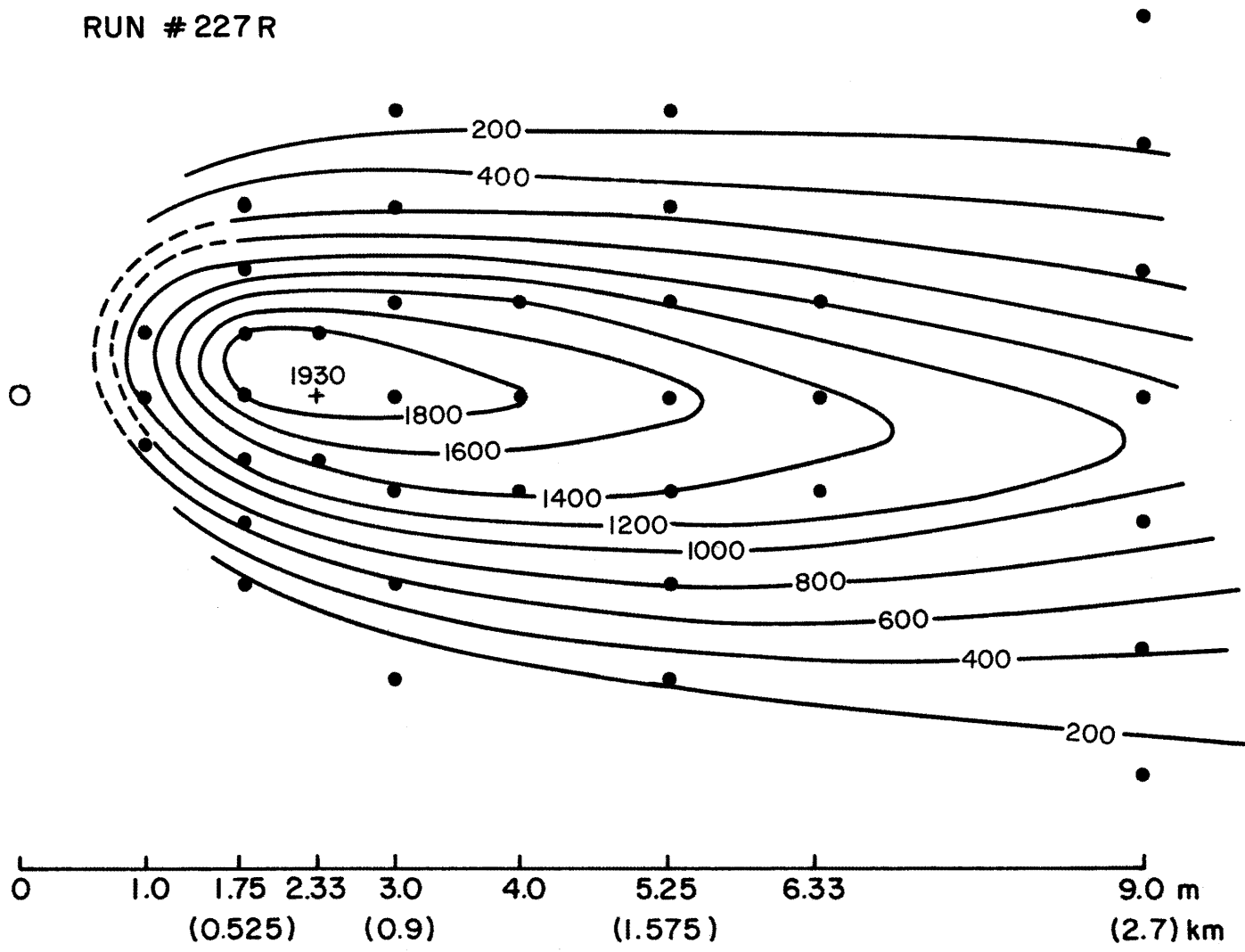
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 227



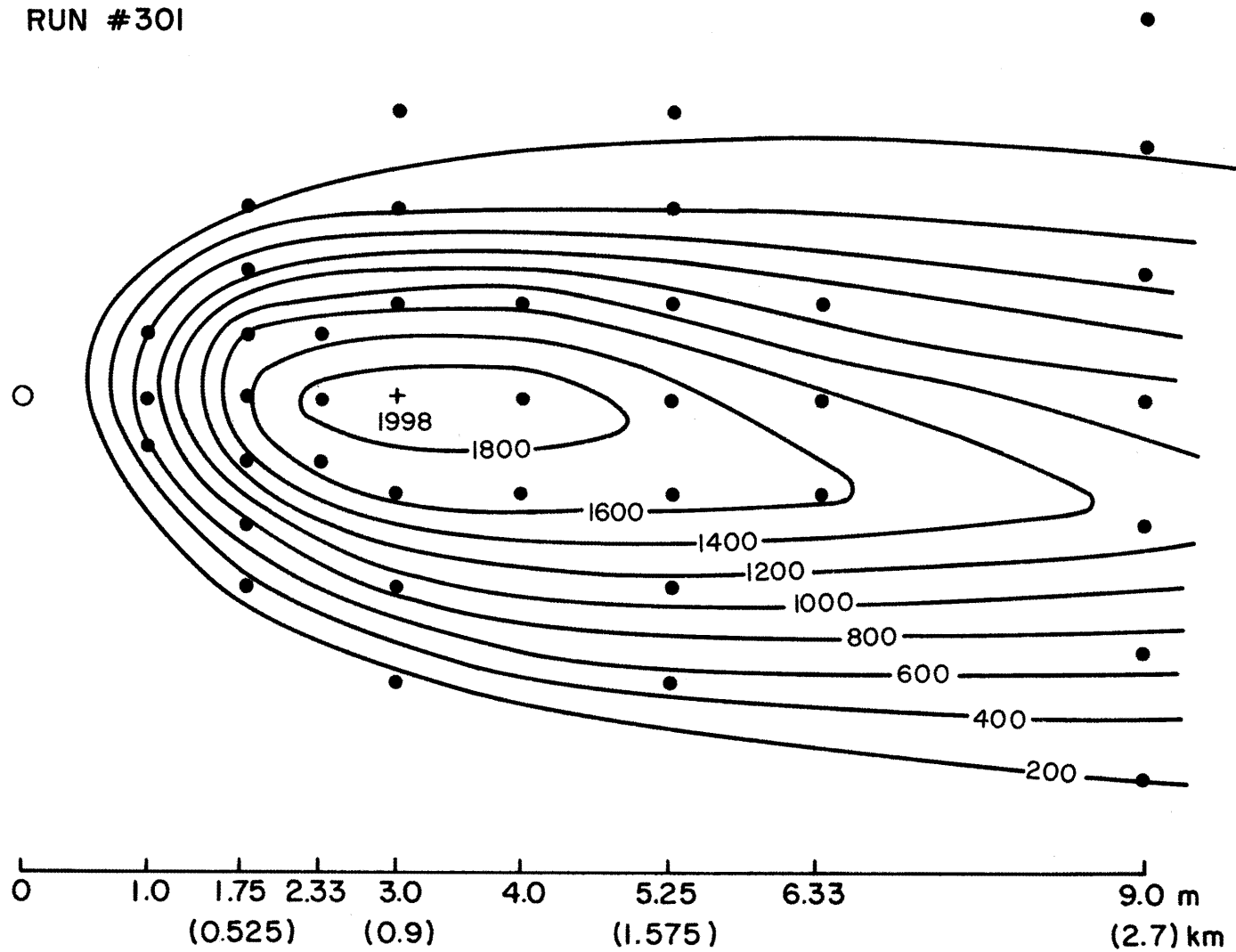
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION (μg/m<sup>3</sup>)

RUN # 227 R



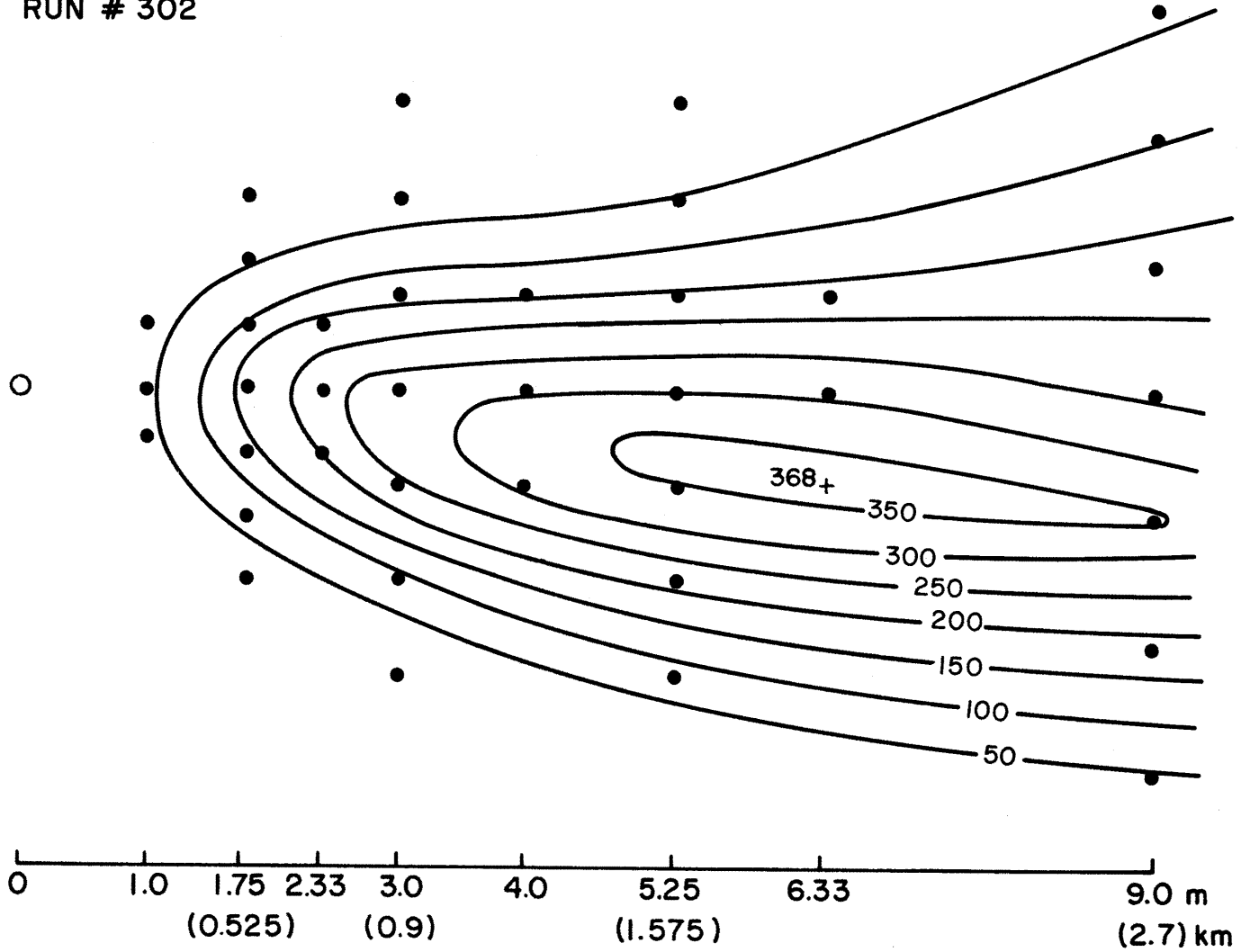
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #301



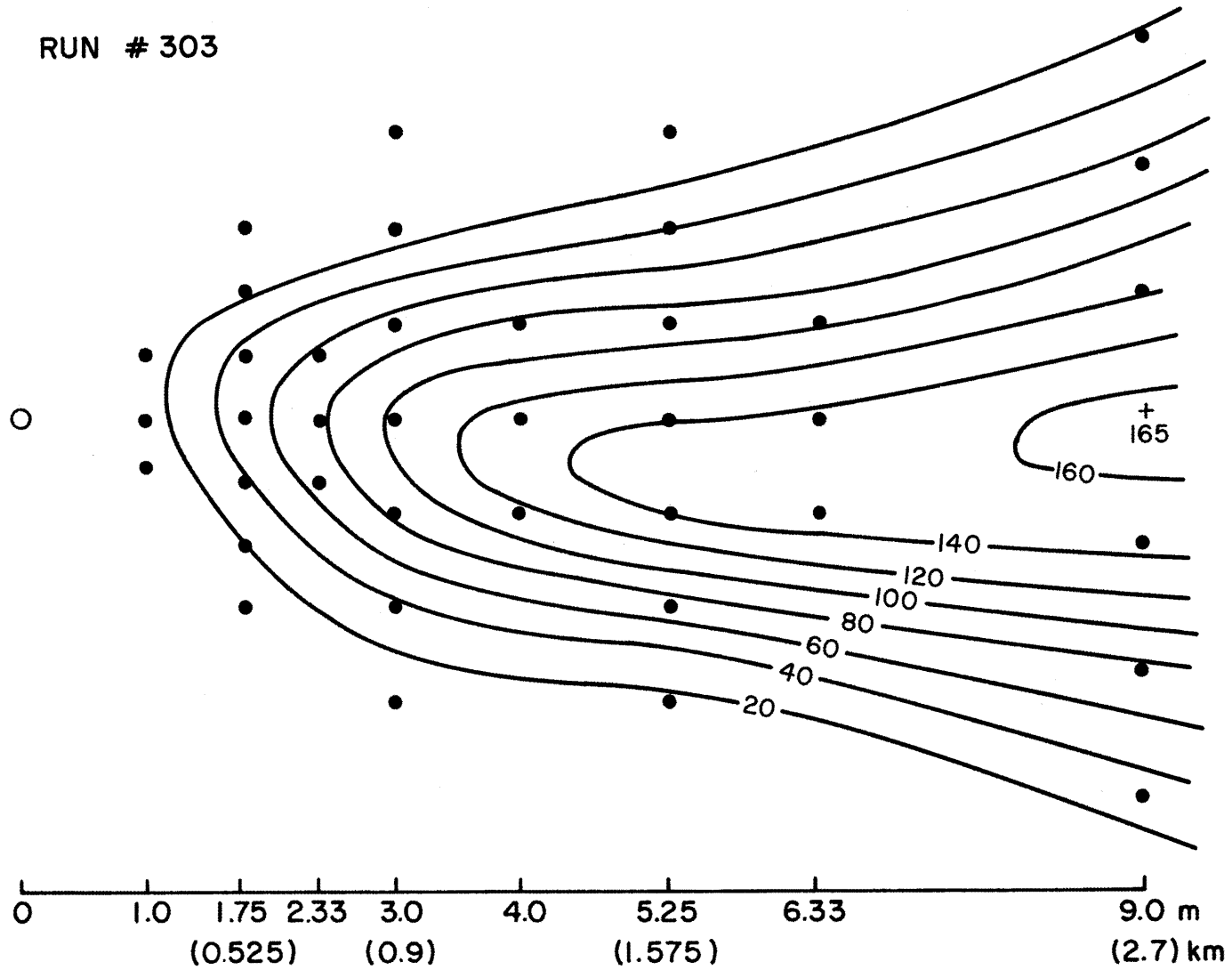
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 302



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

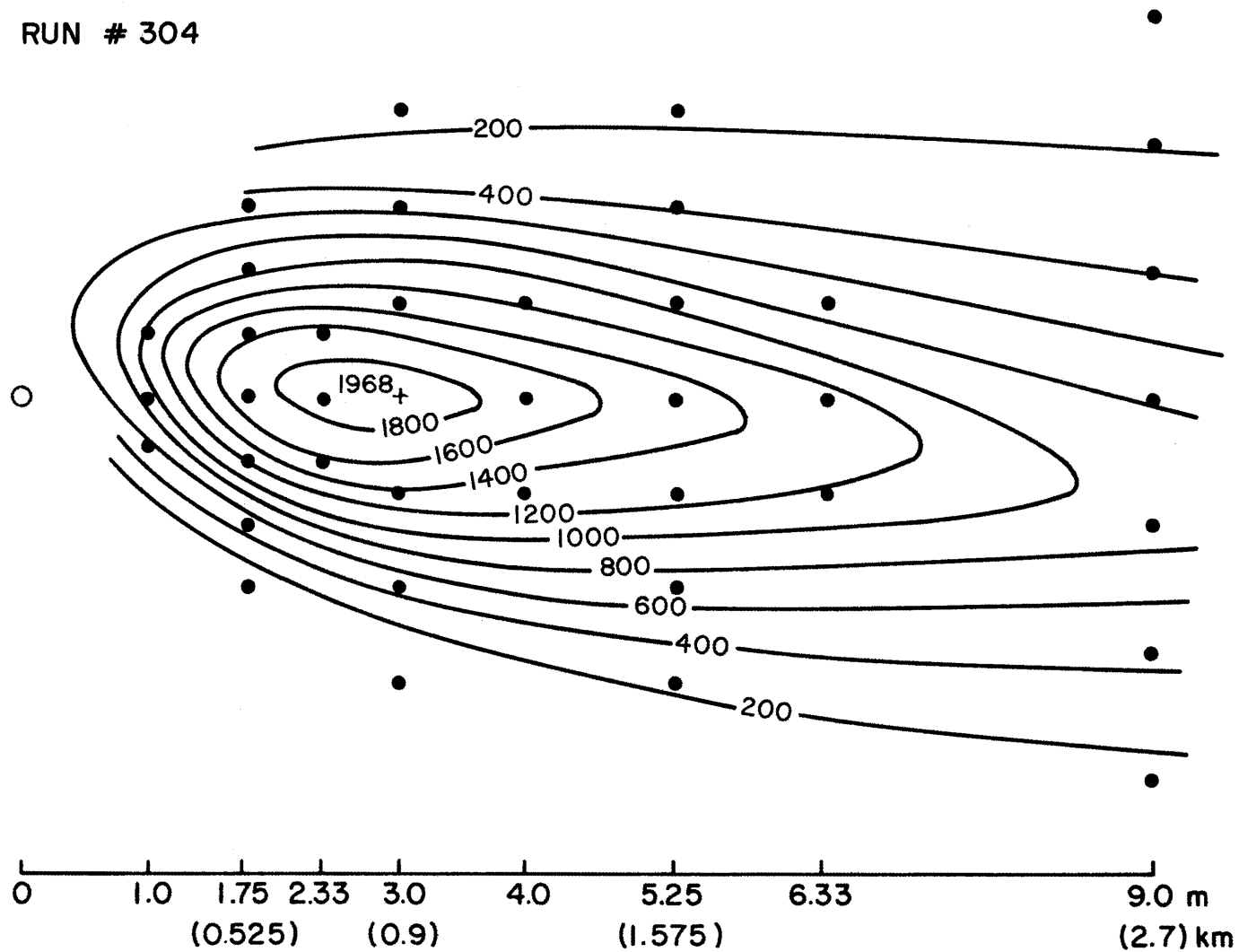
RUN # 303





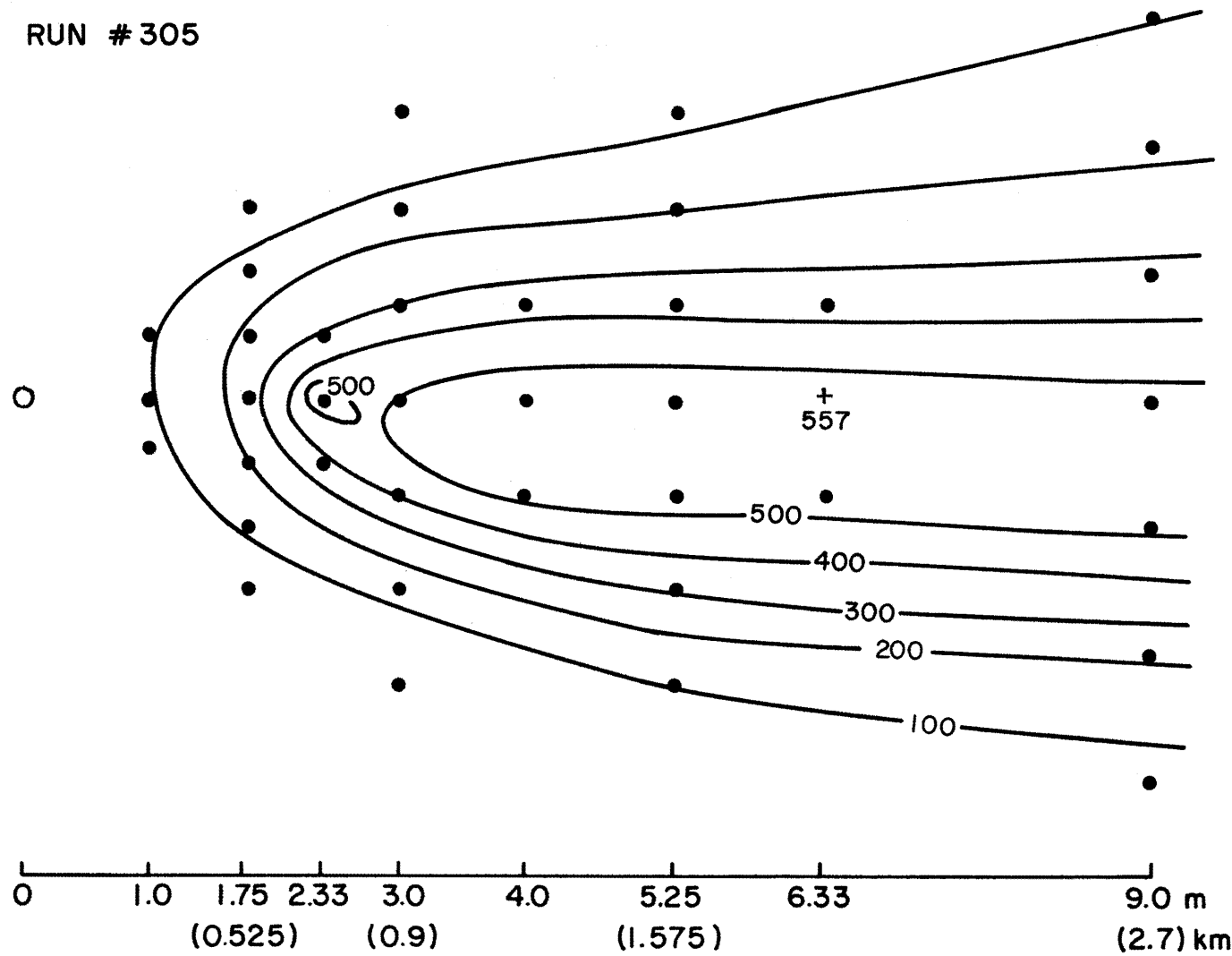
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 304



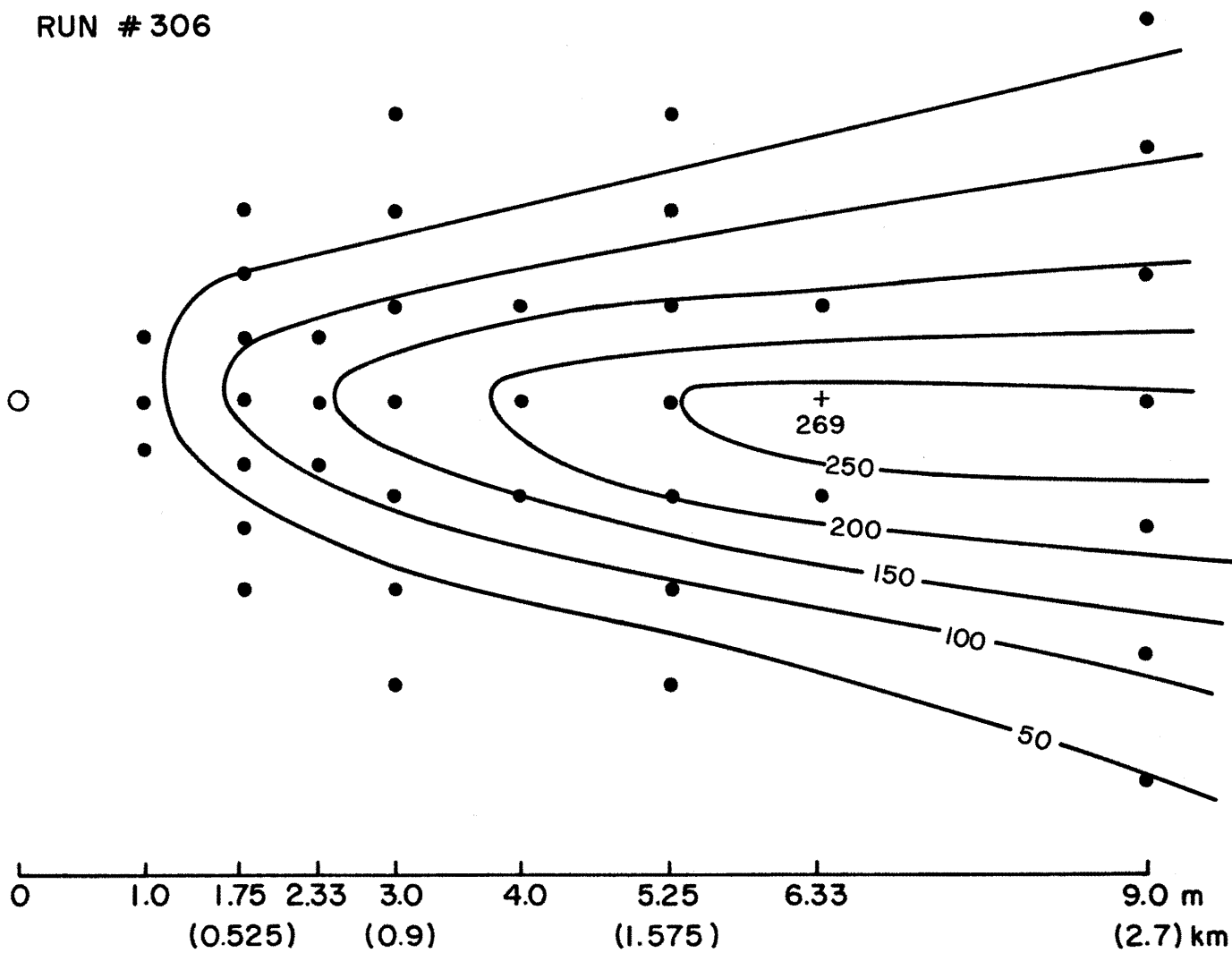
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 305



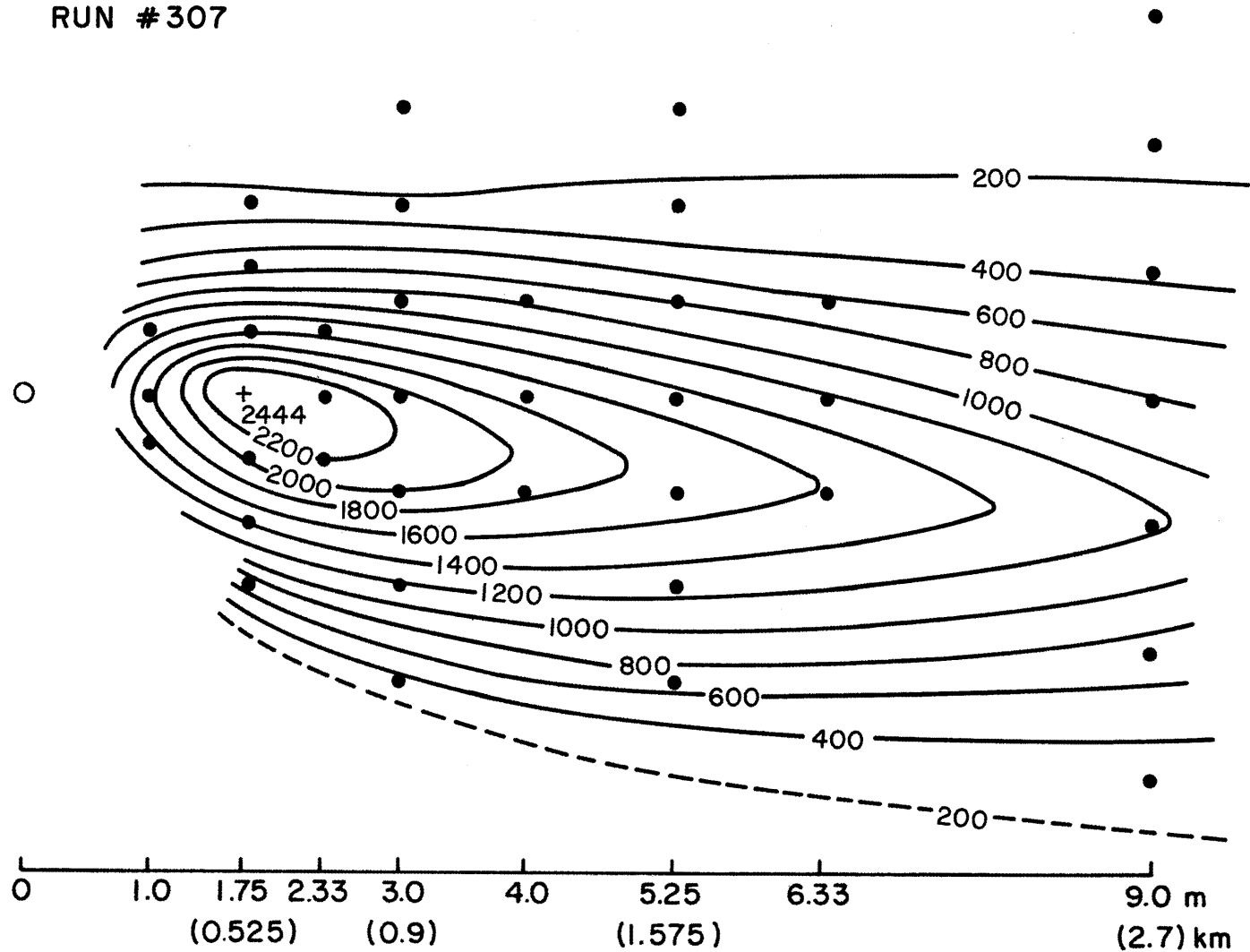
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 306



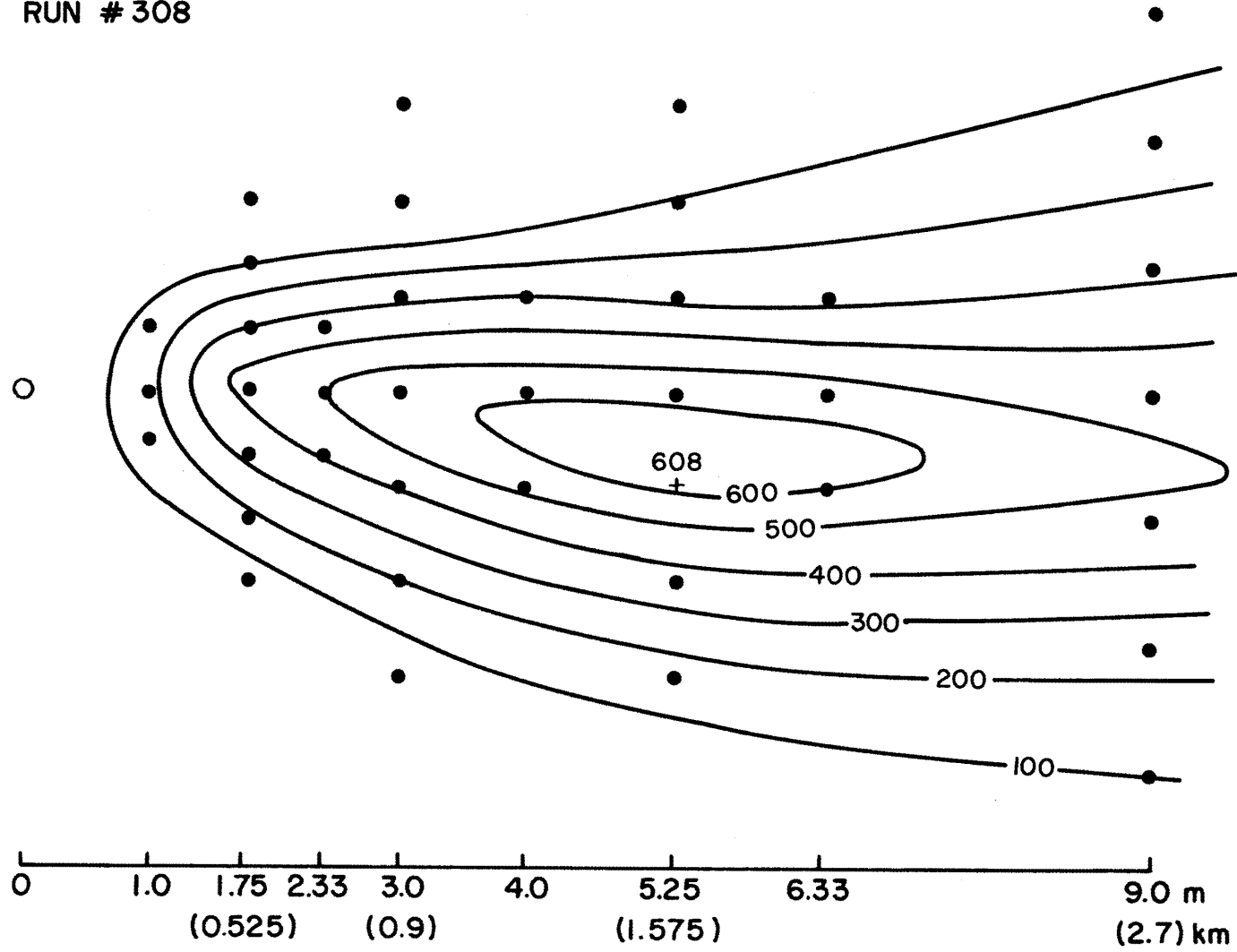
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #307



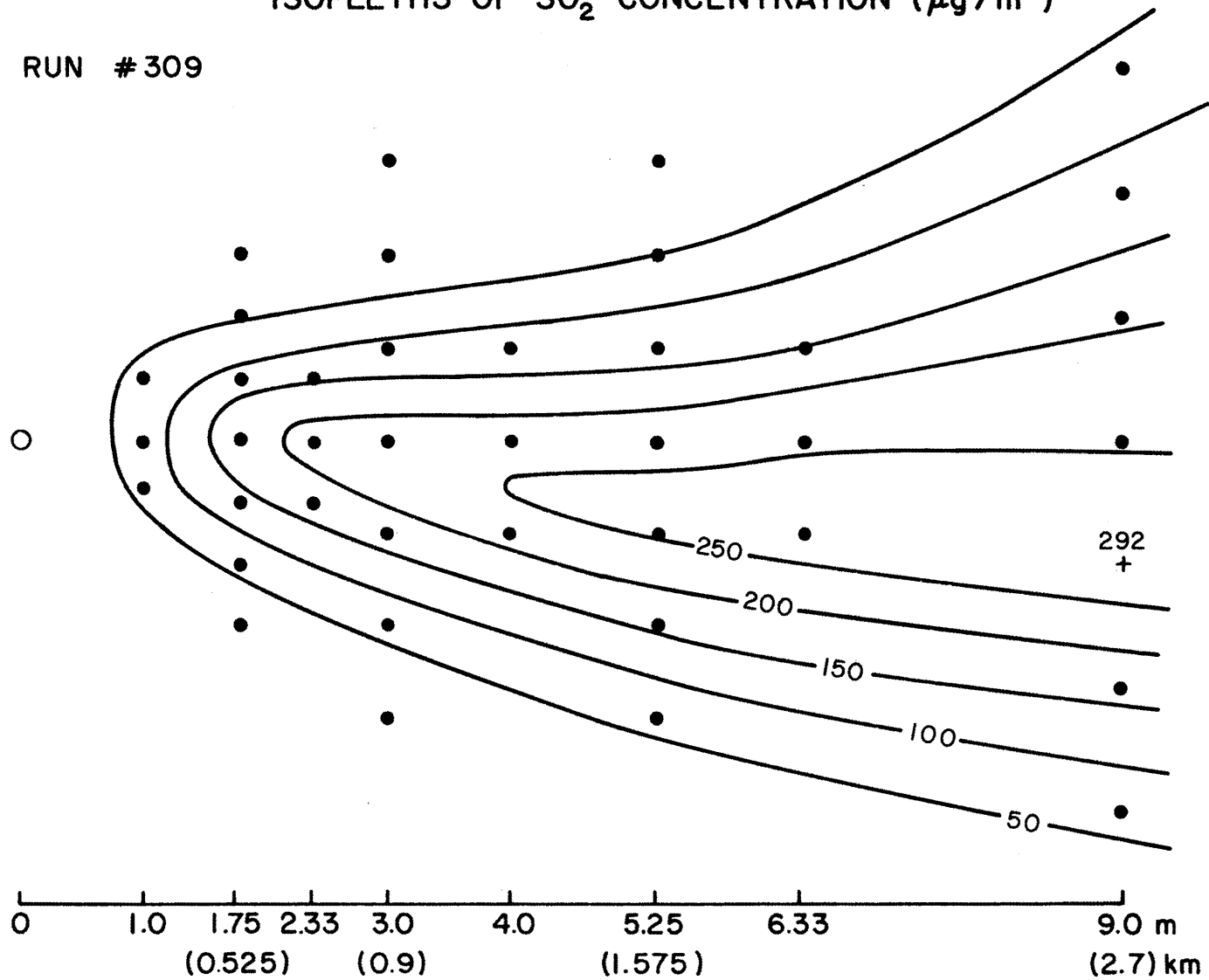
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 308



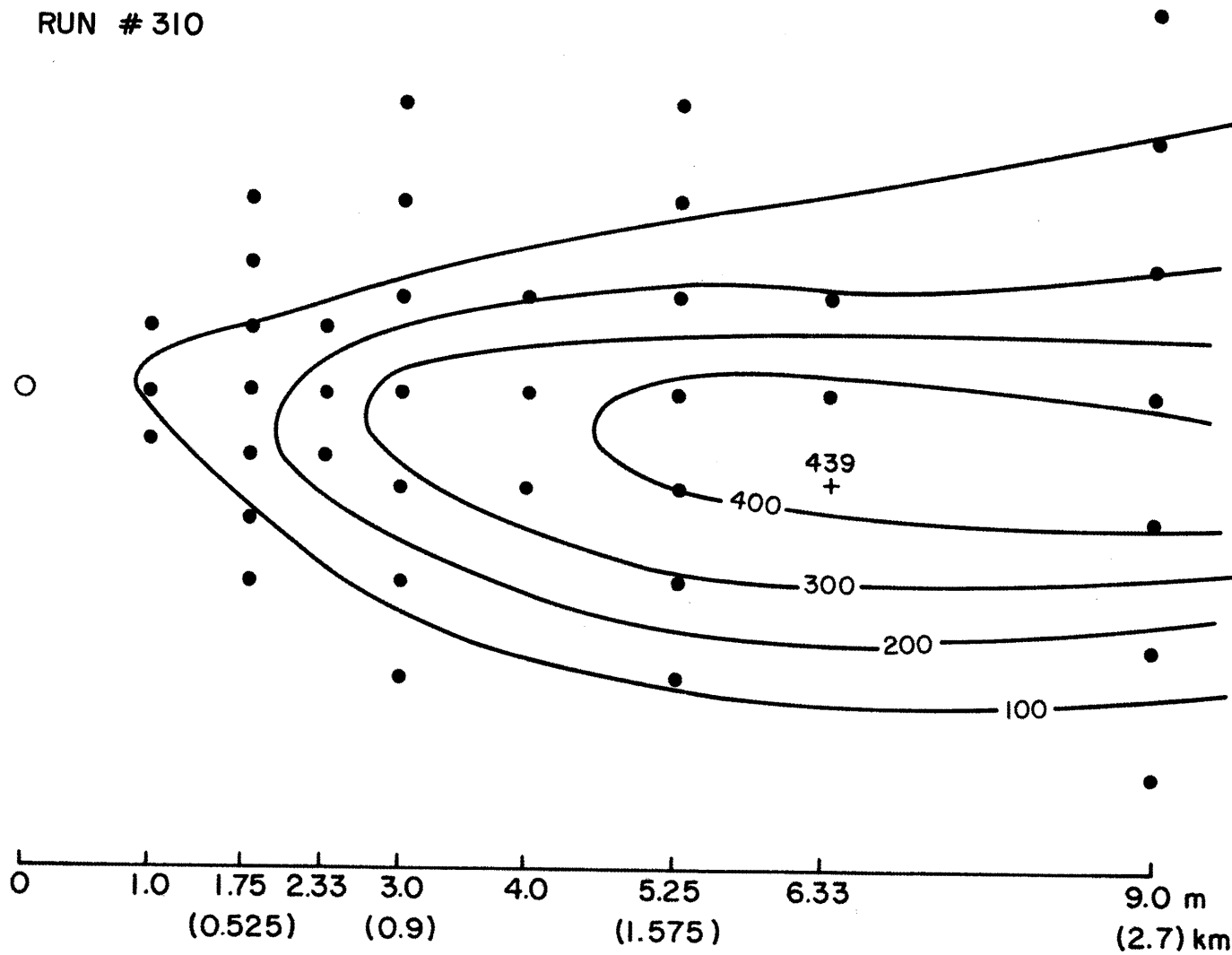
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 309



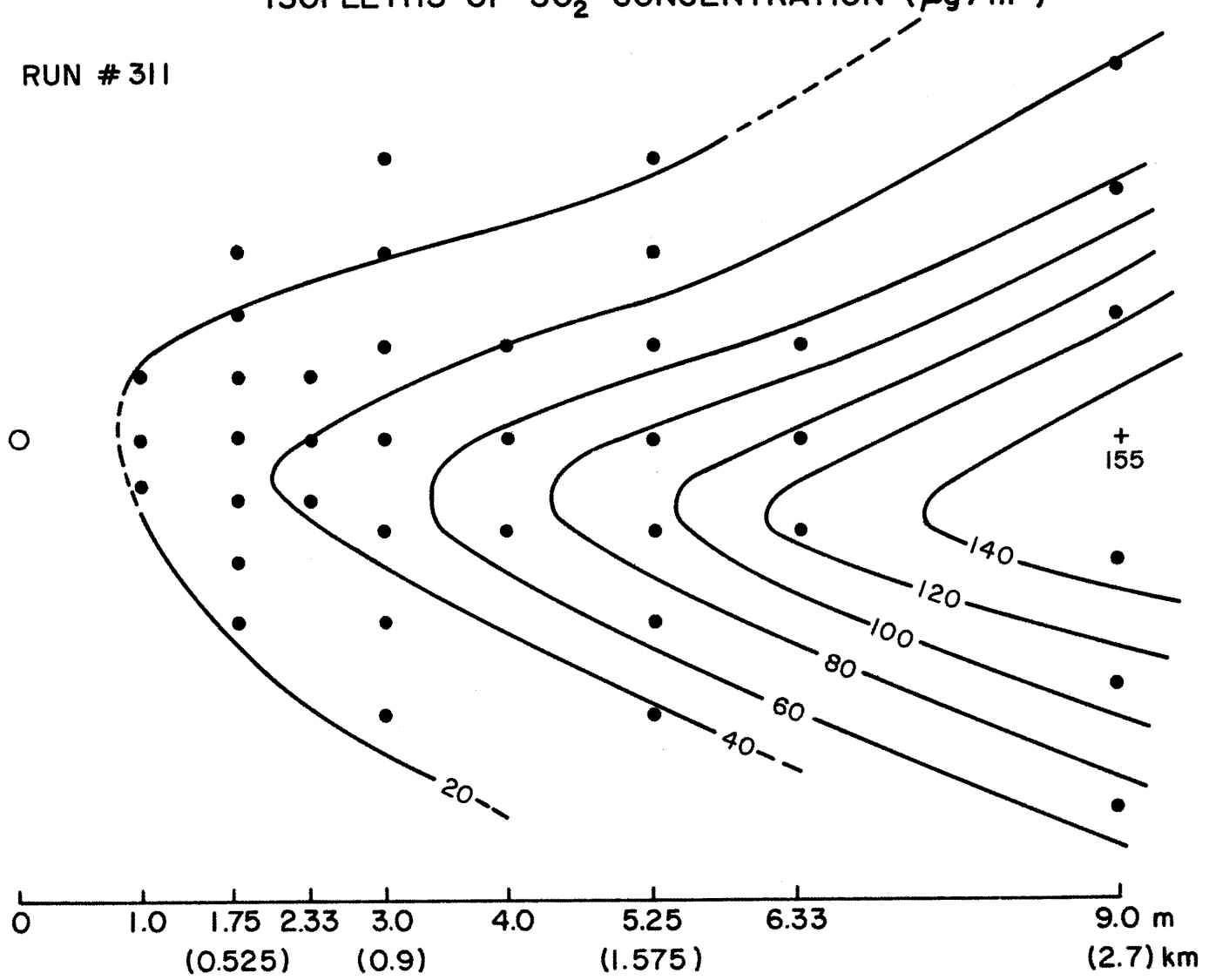
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 310



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

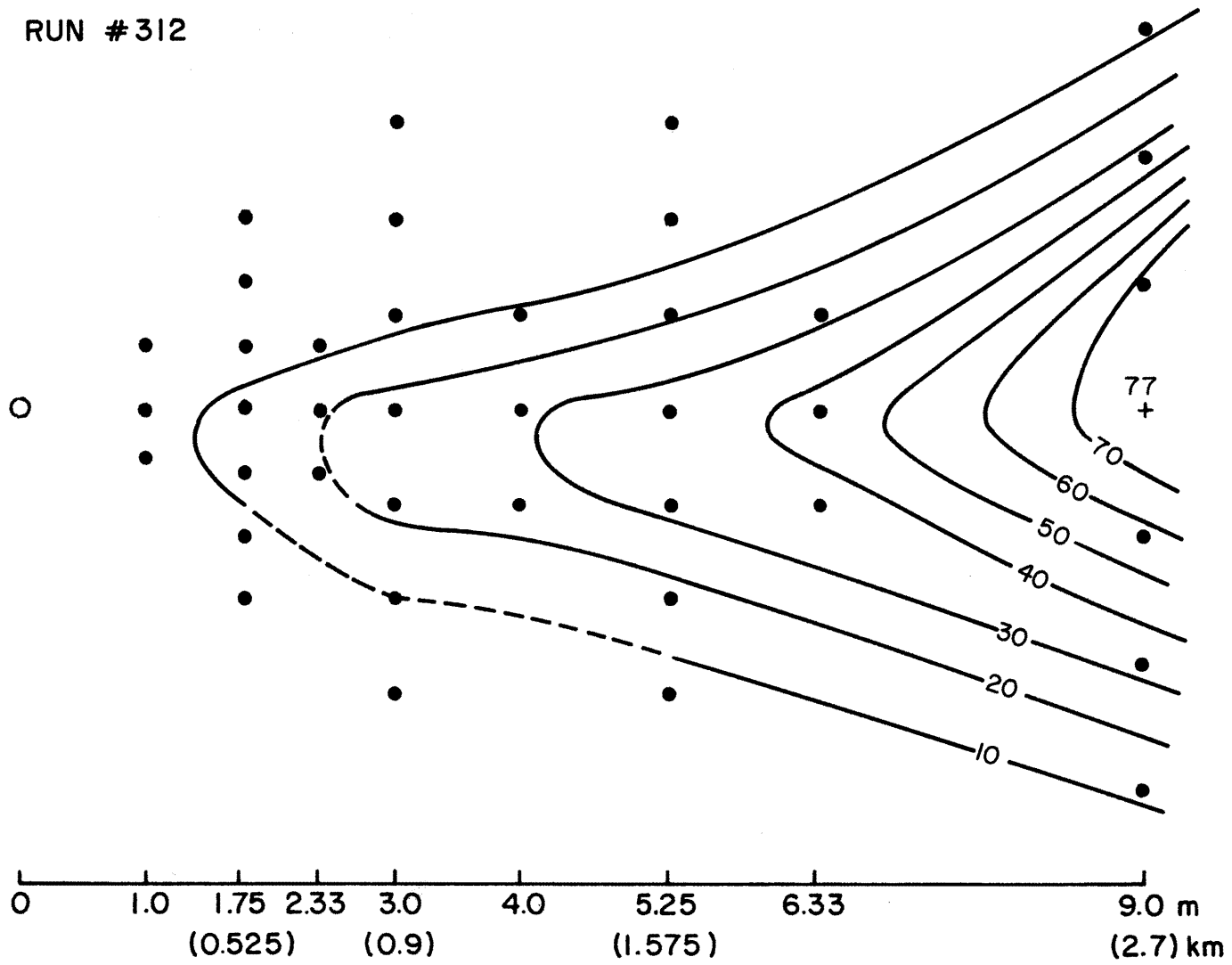
RUN # 311





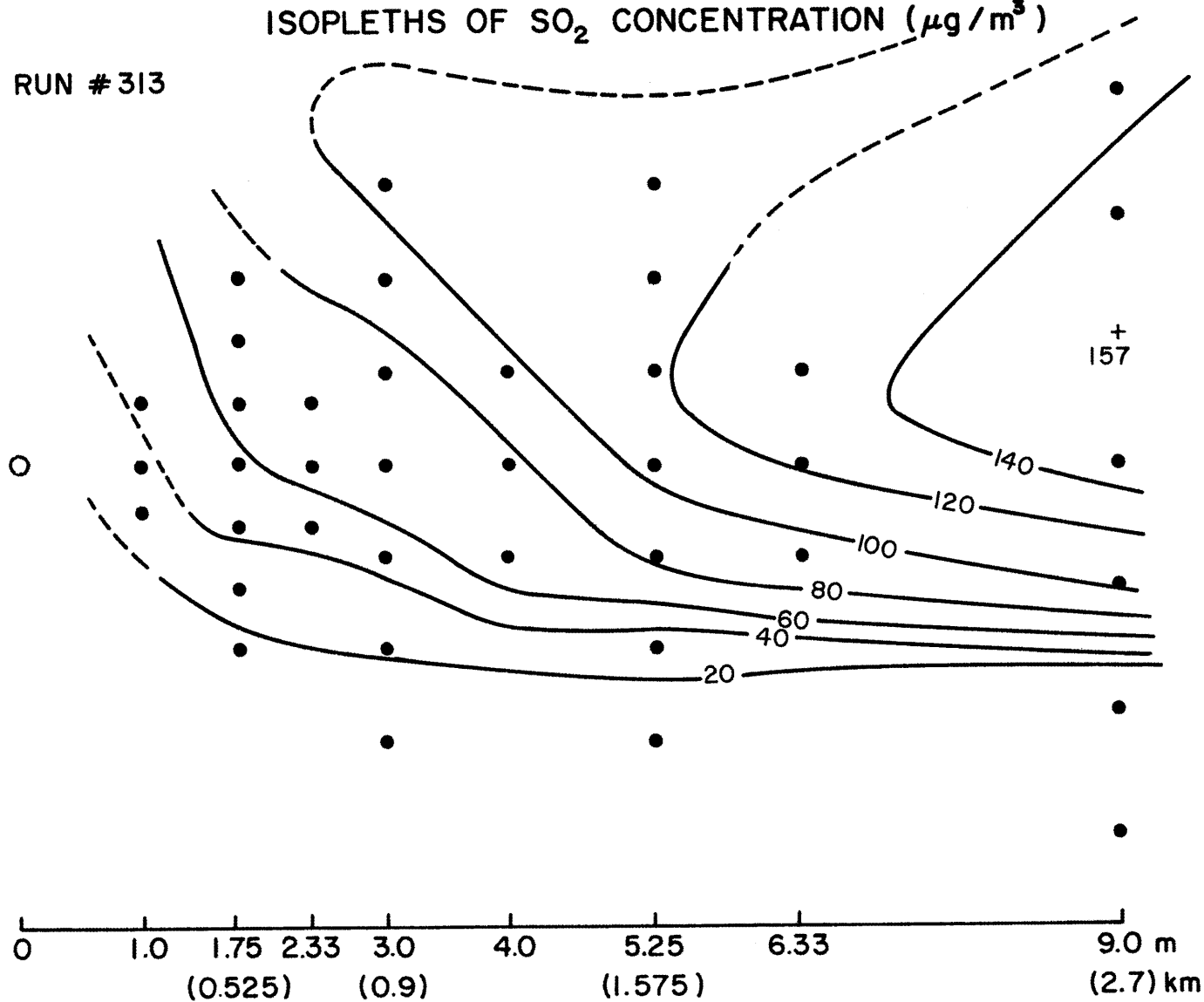
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #312



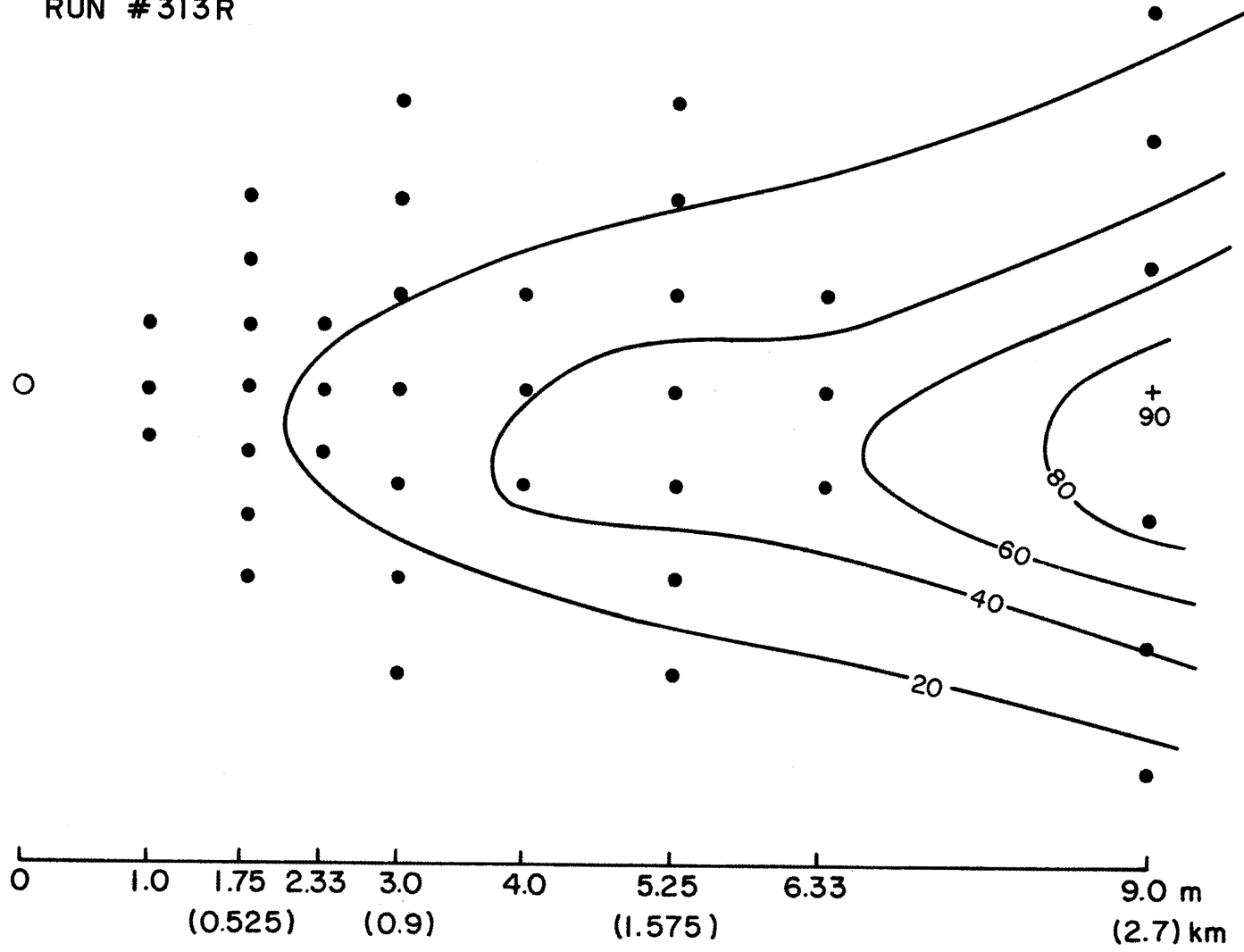
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 313



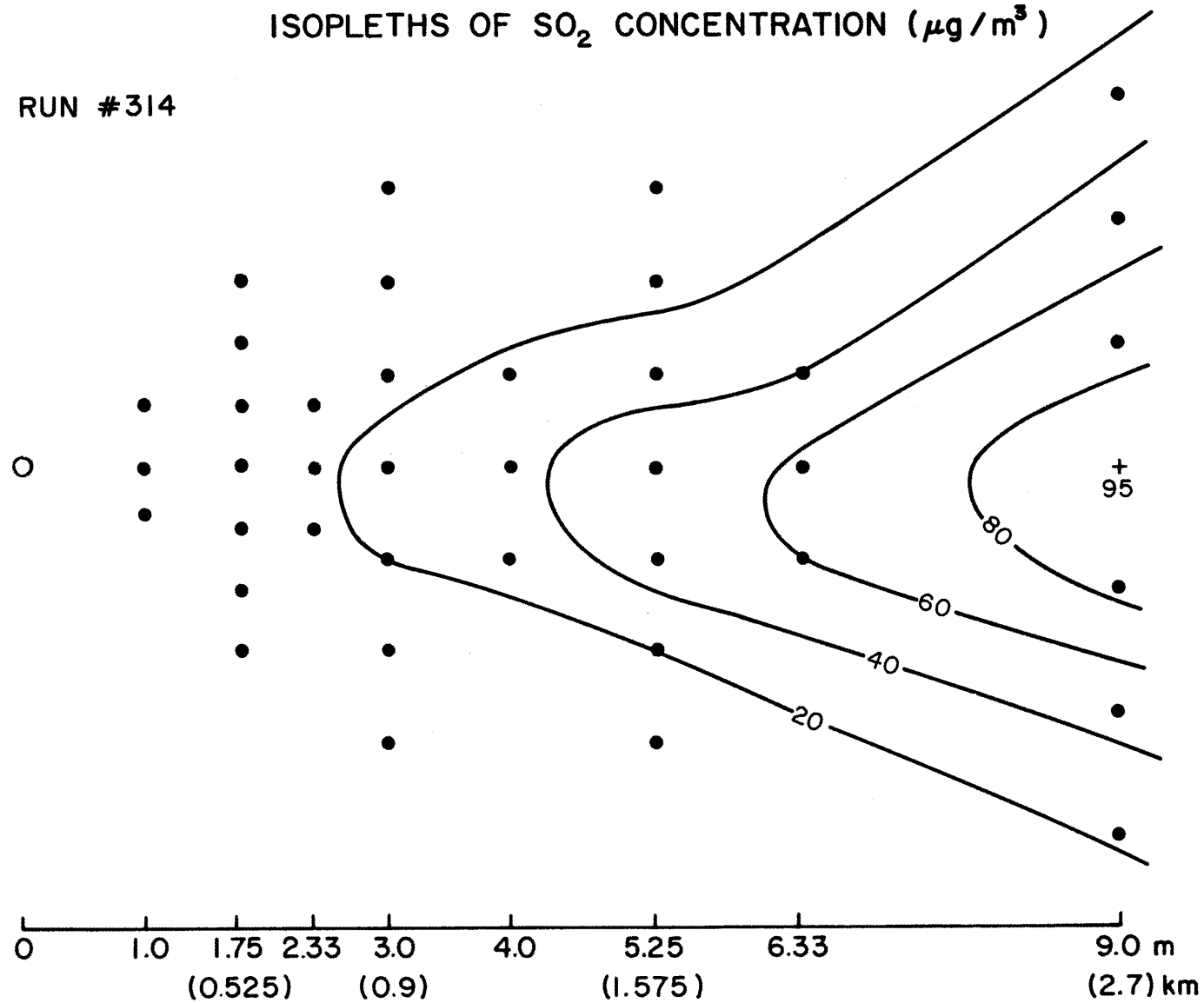
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #313R



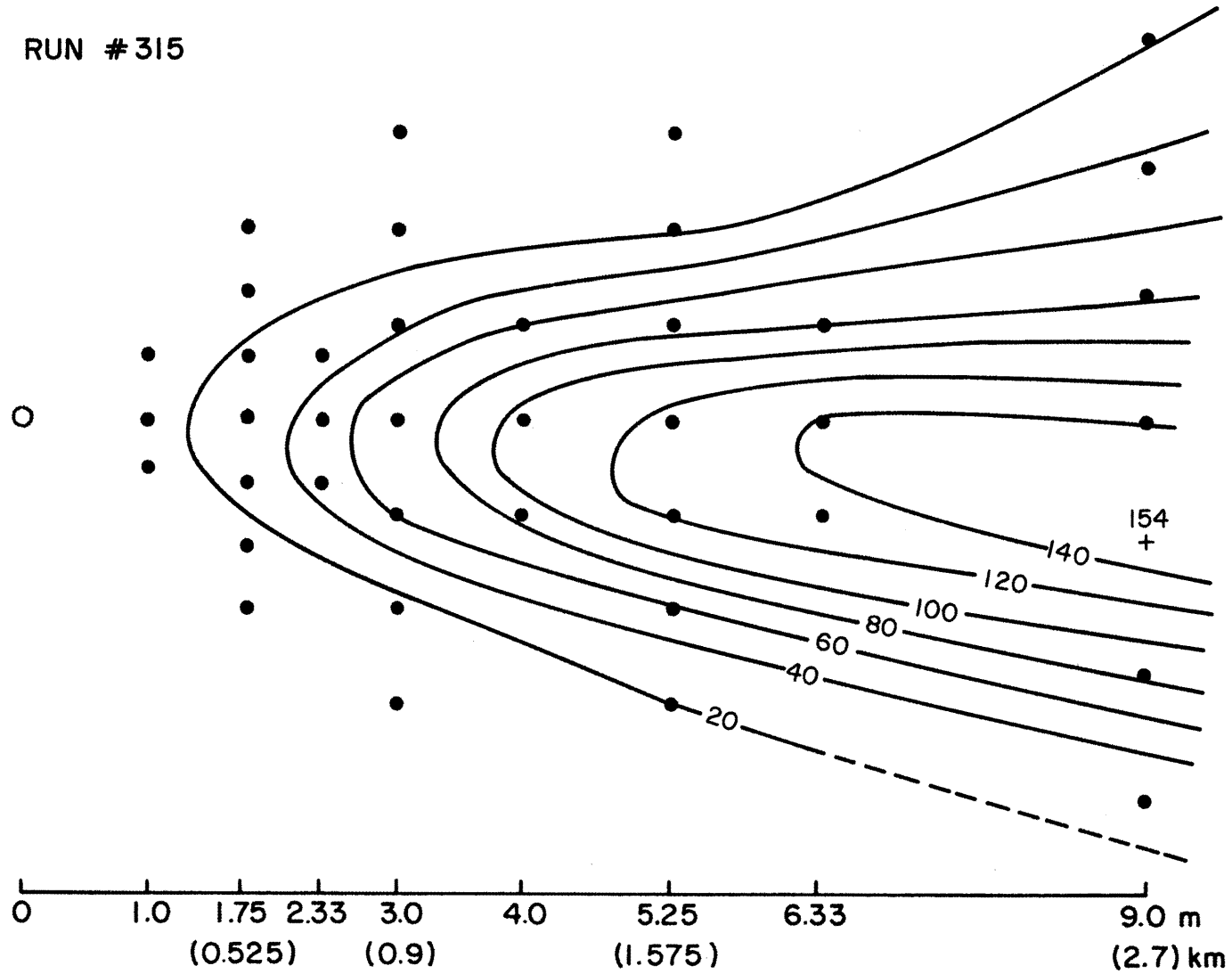
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #314



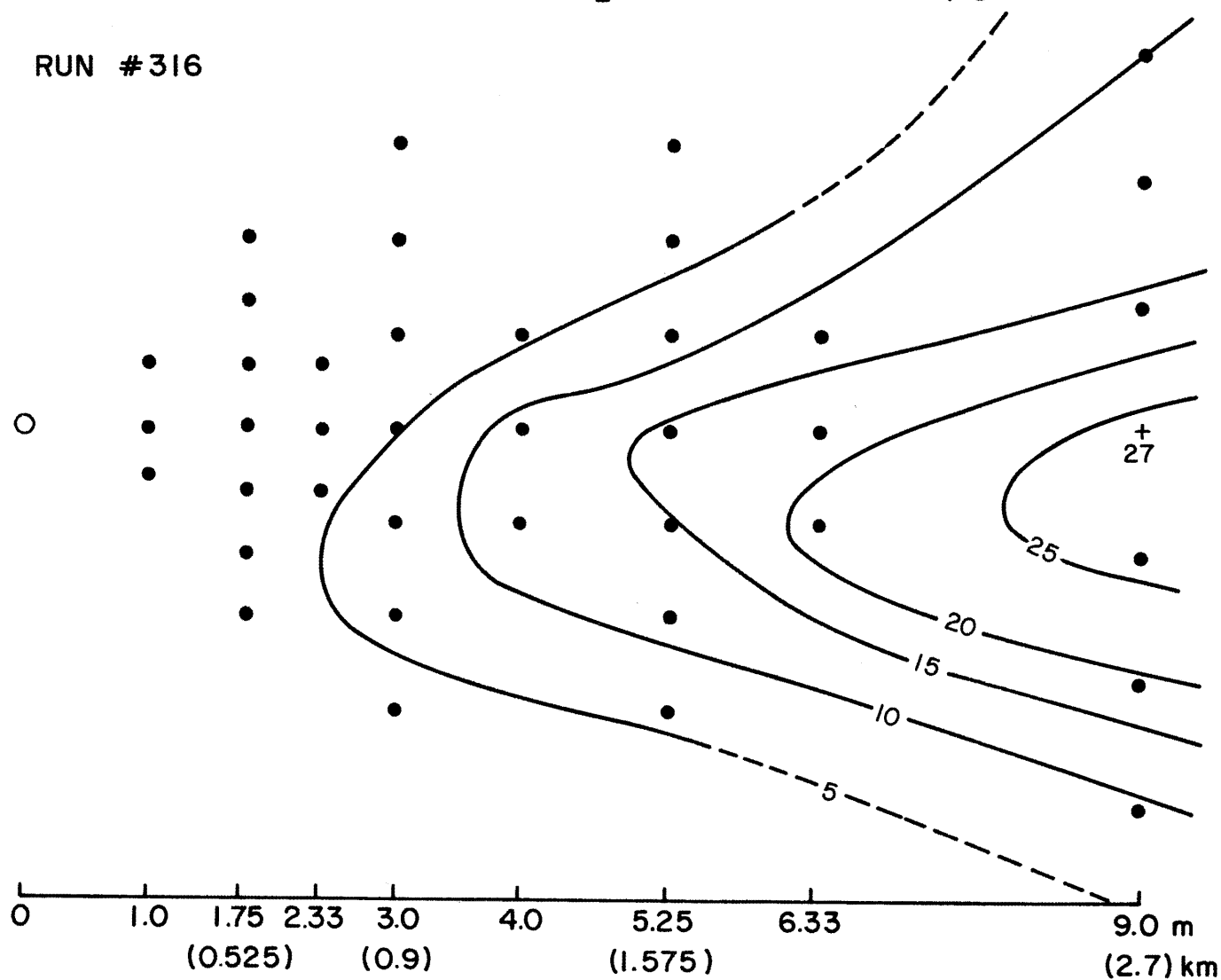
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 315



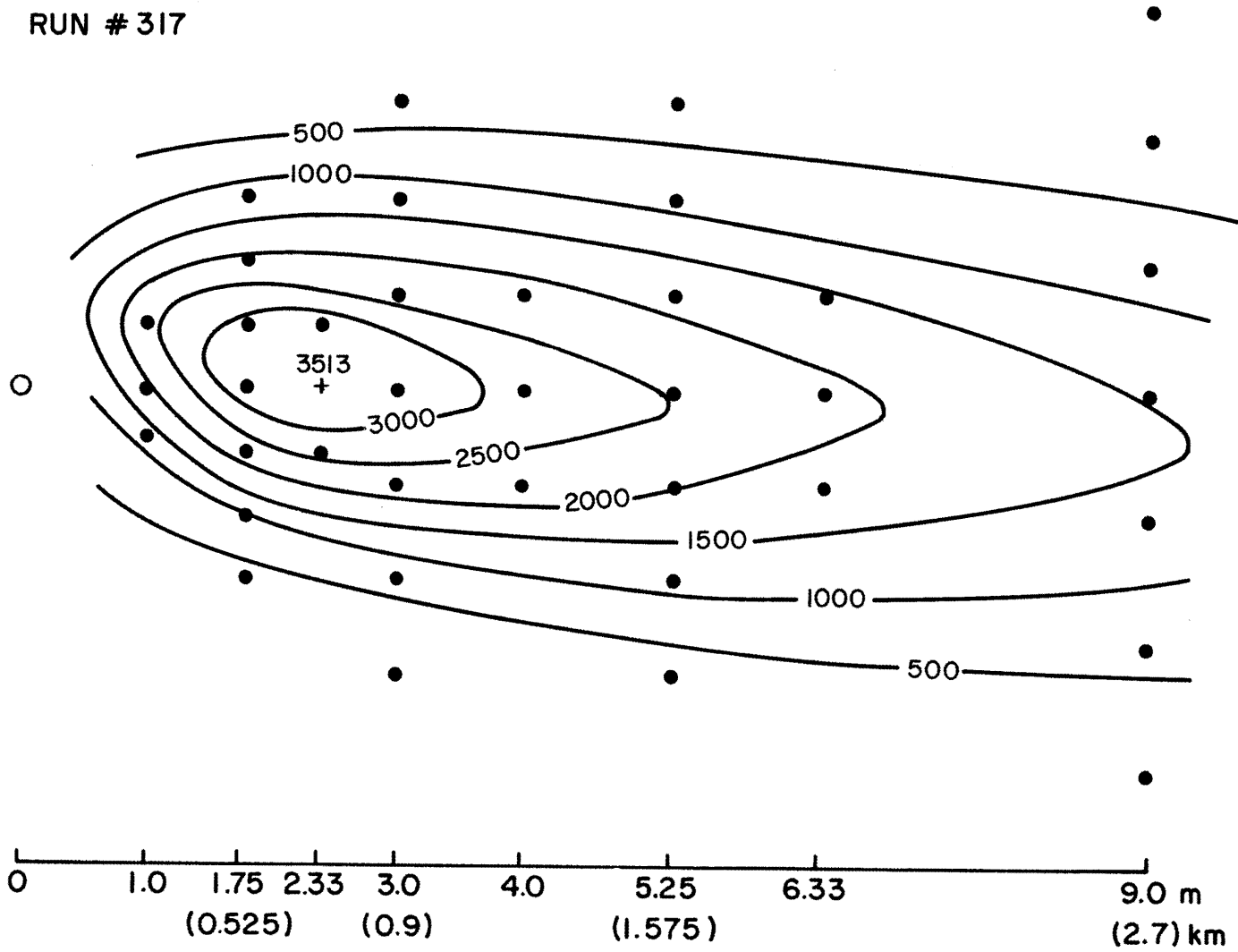
ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 316



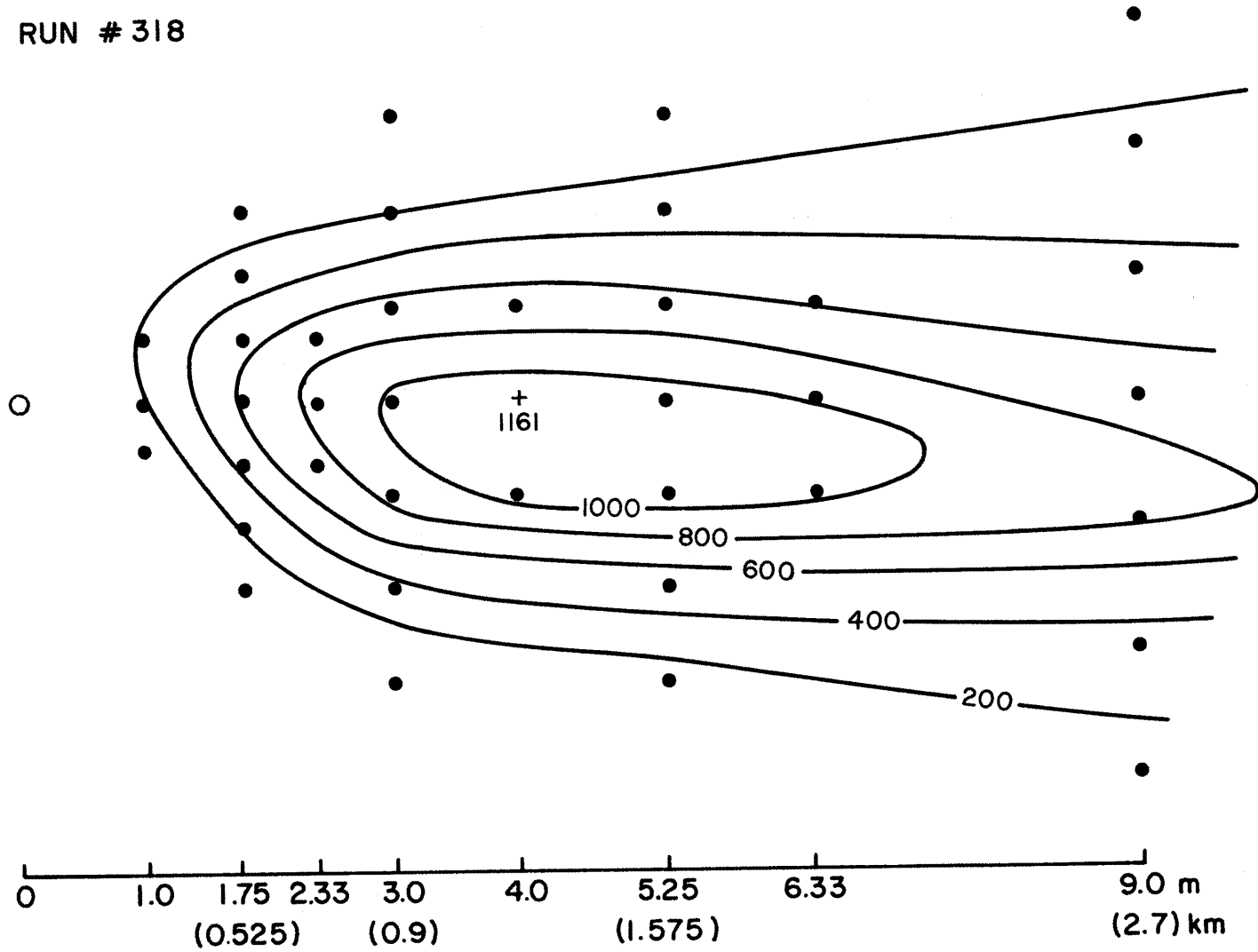
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 317



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

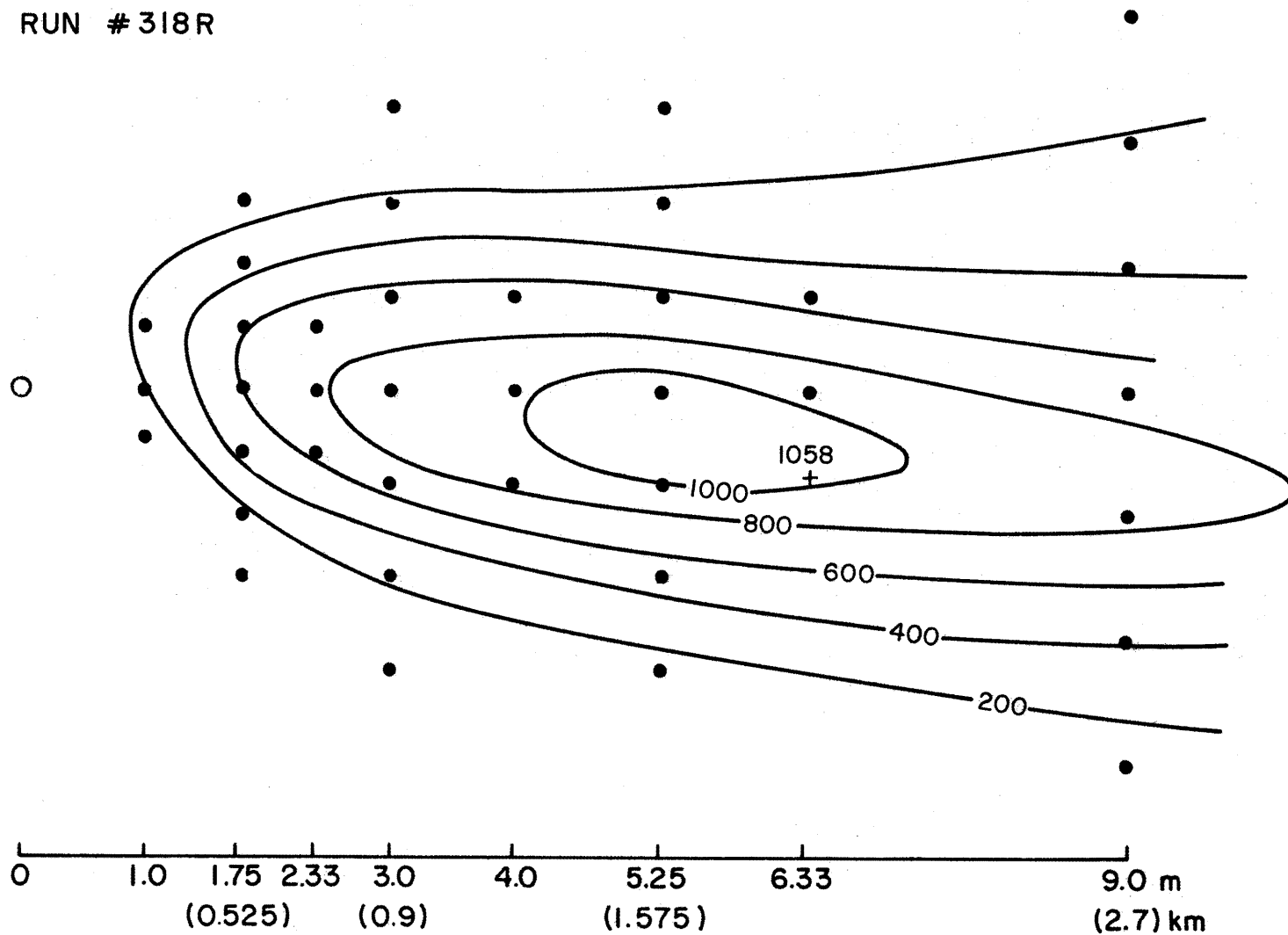
RUN # 318





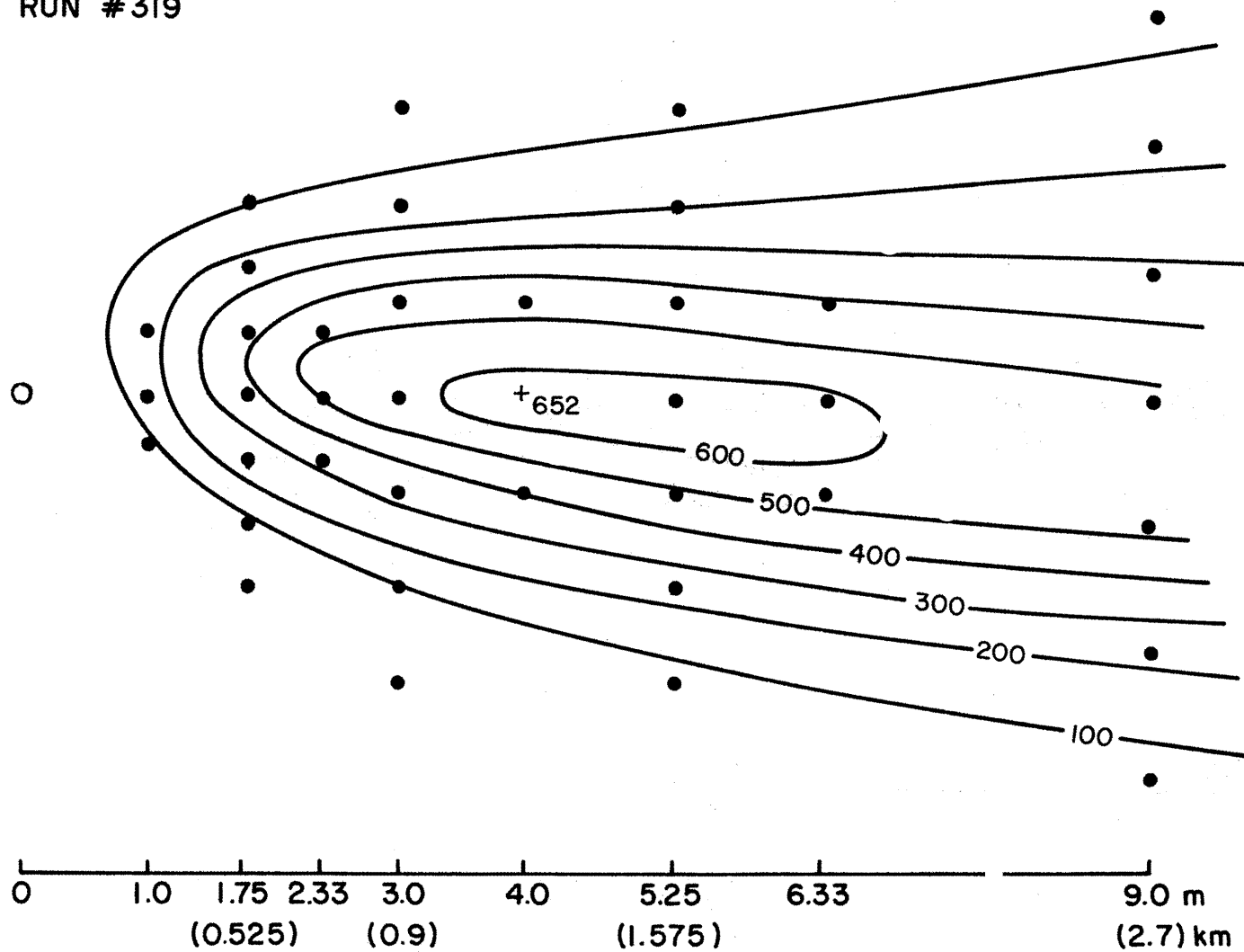
ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 318R



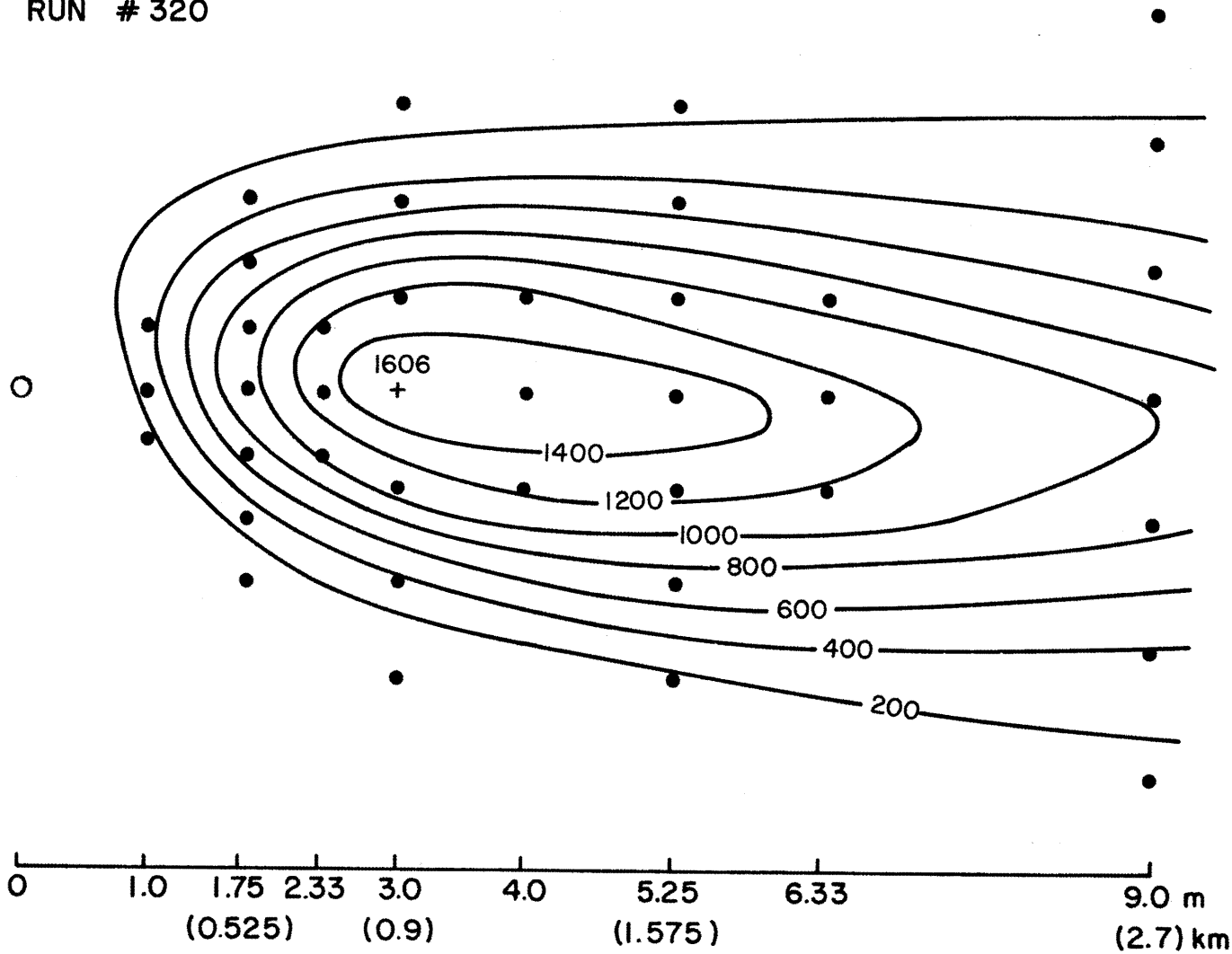
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #319



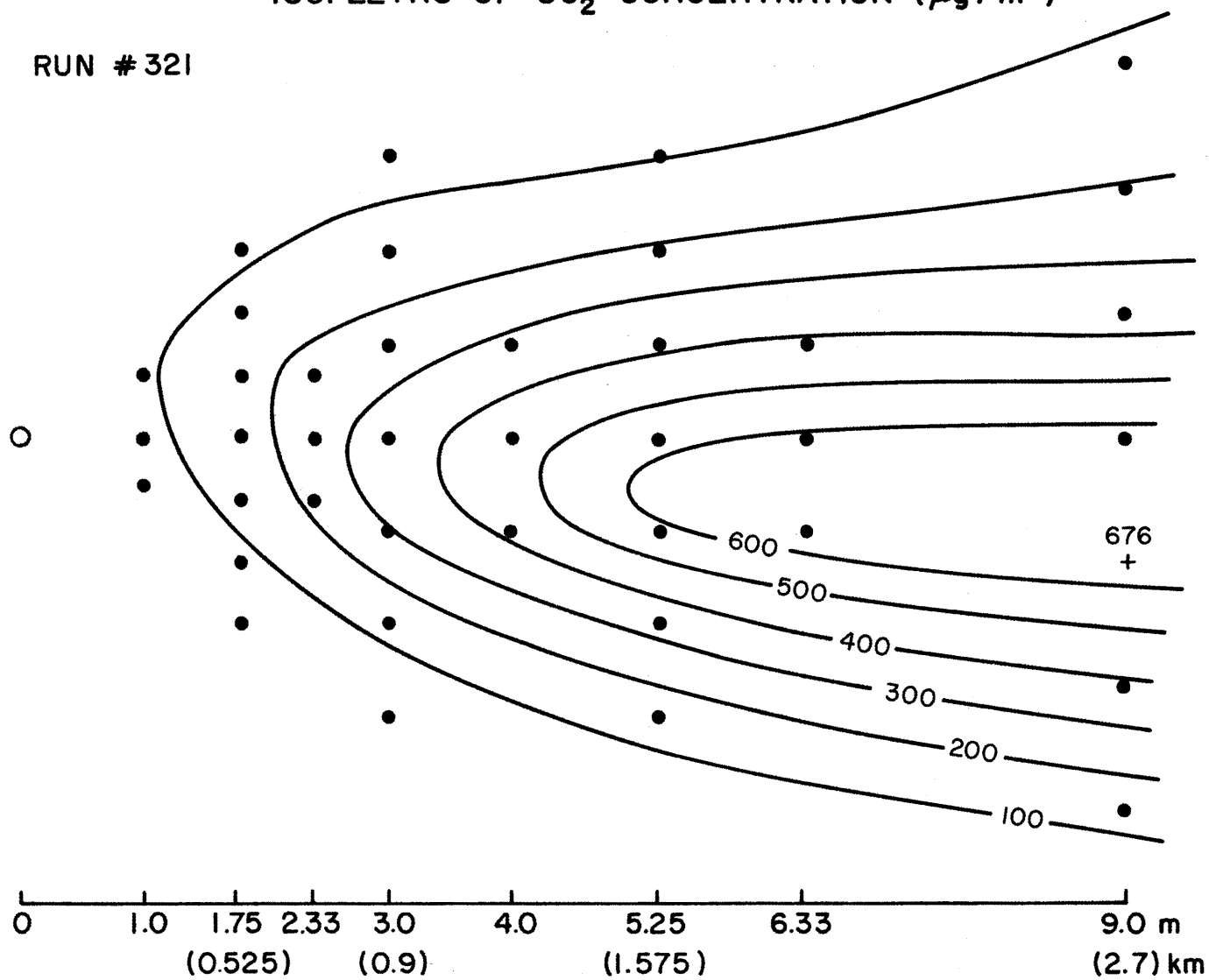
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 320



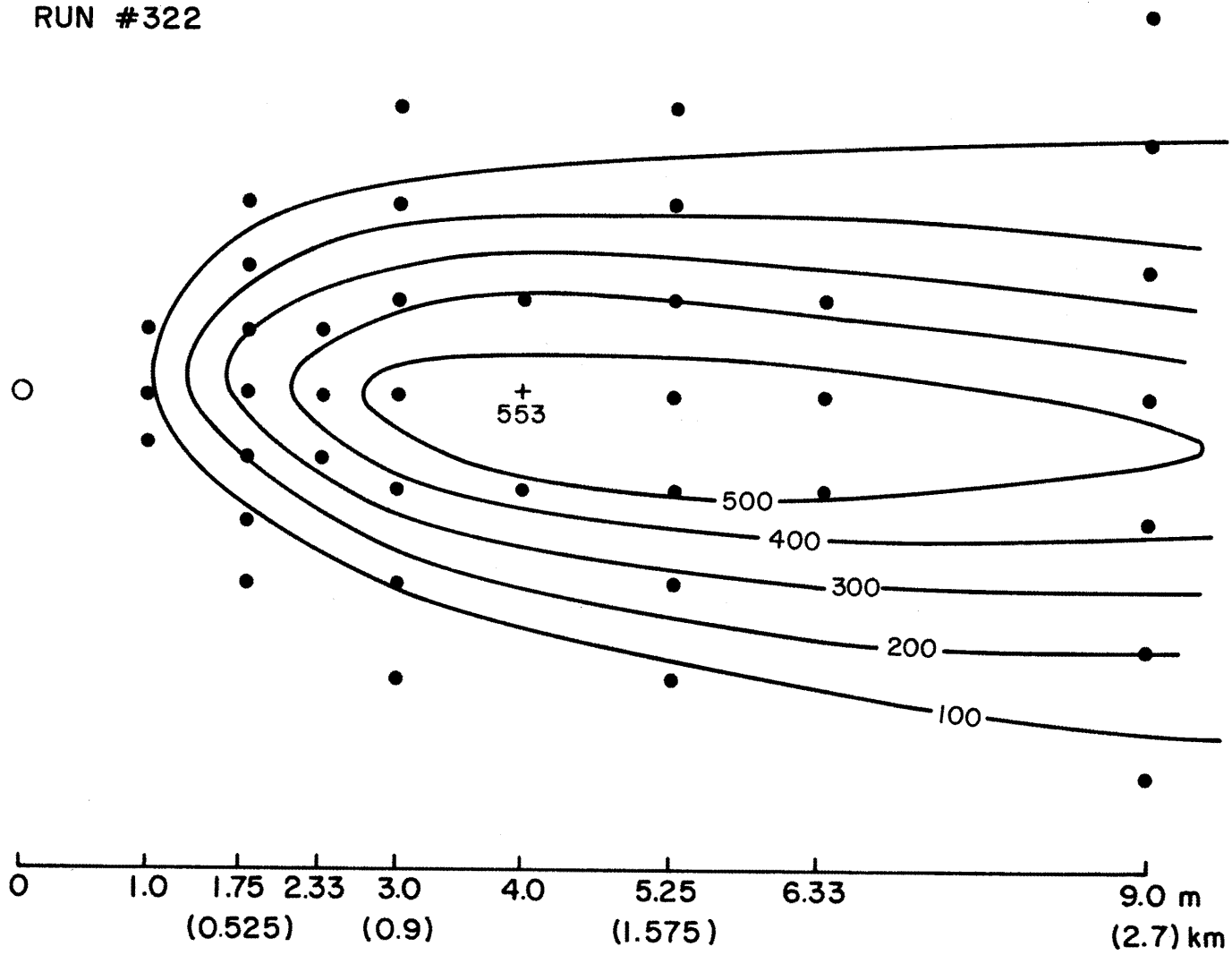
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 321



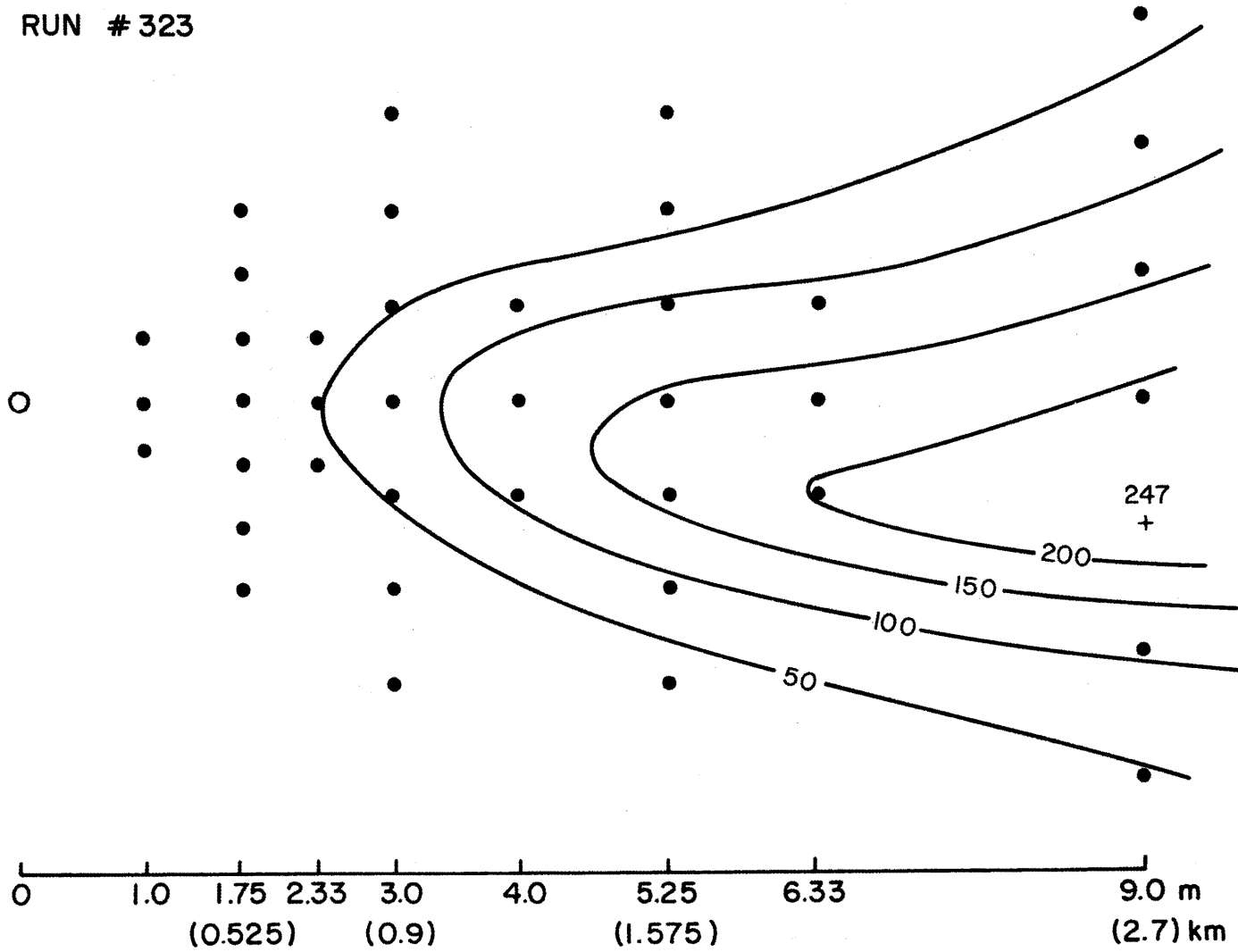
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #322



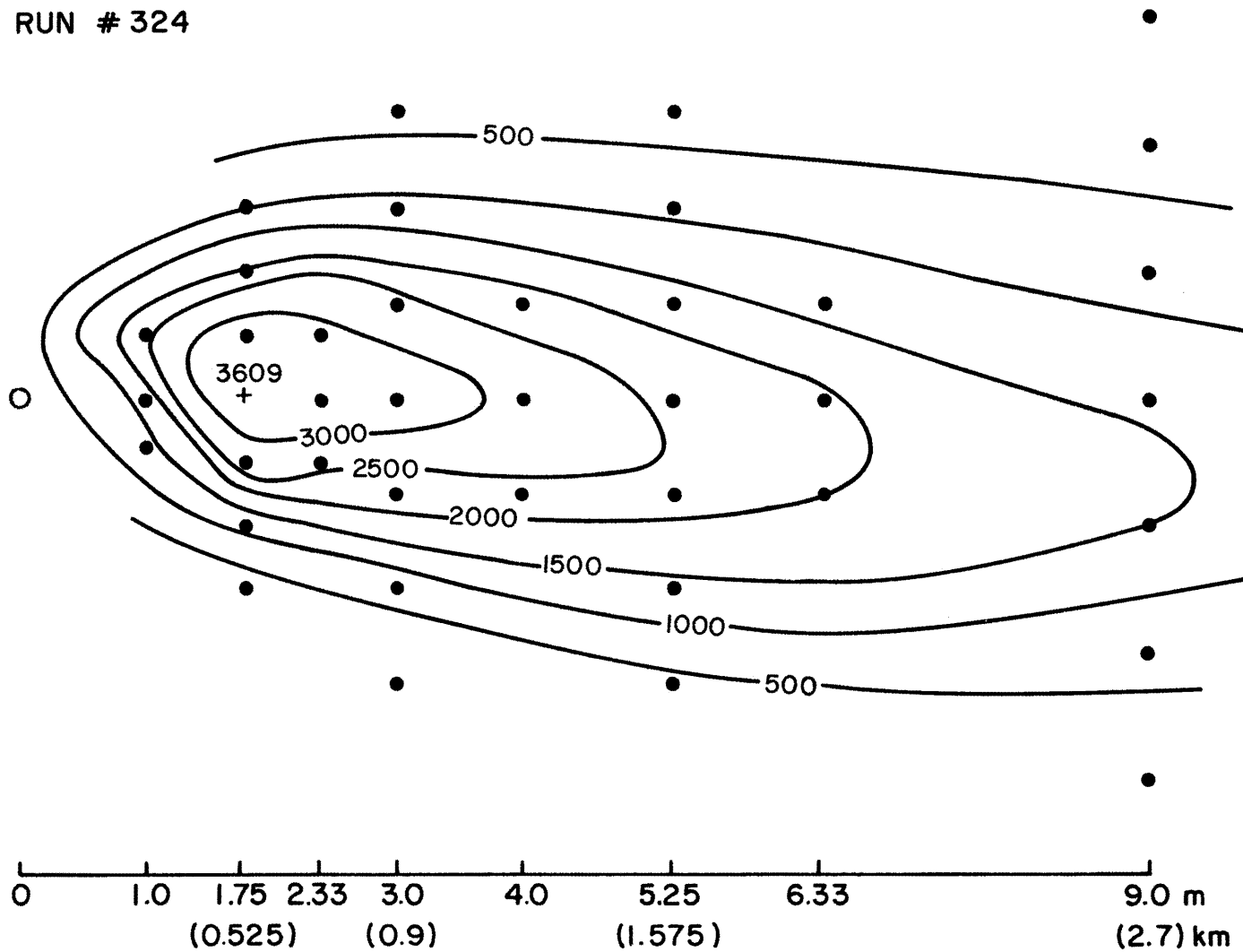
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 323



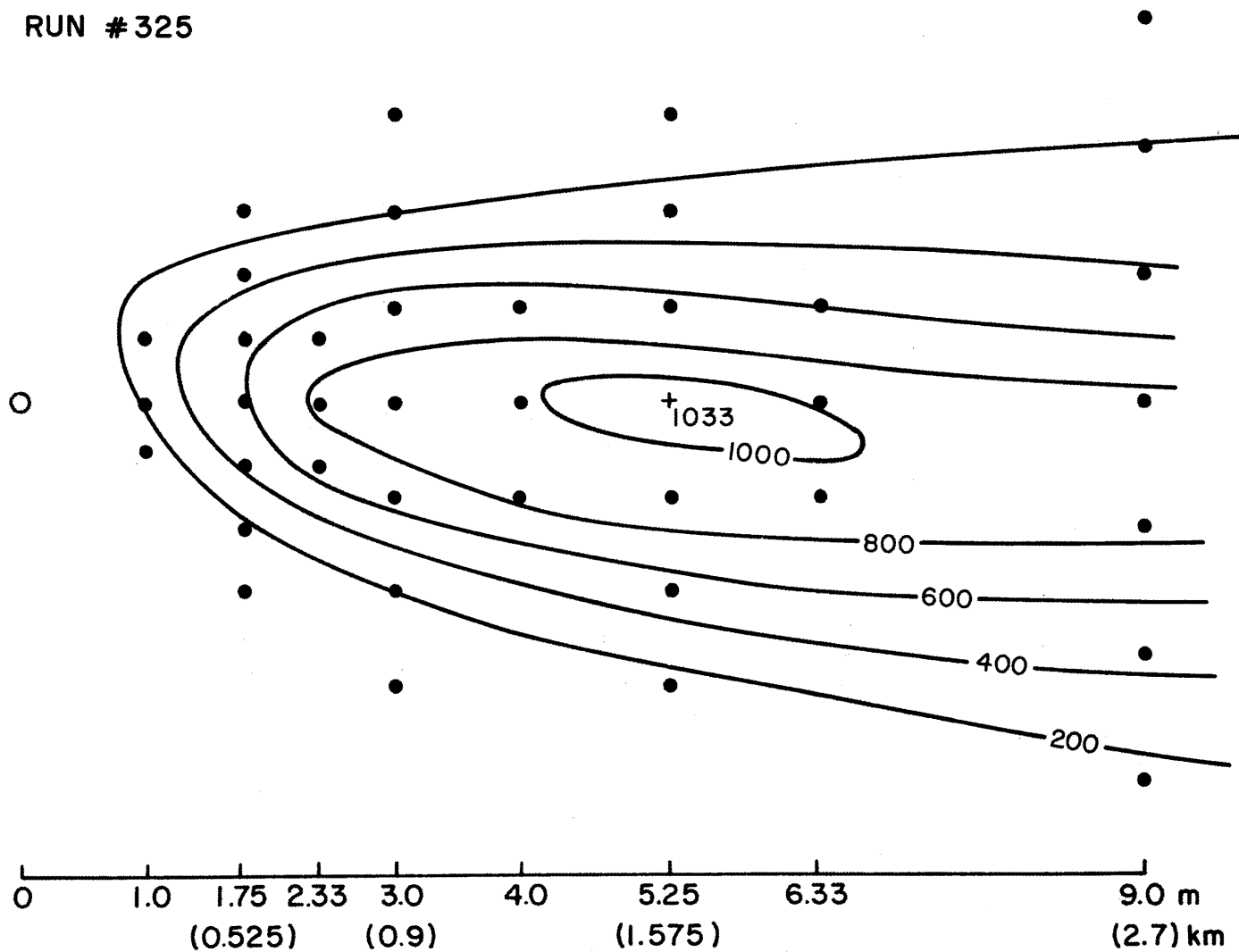
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 324



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

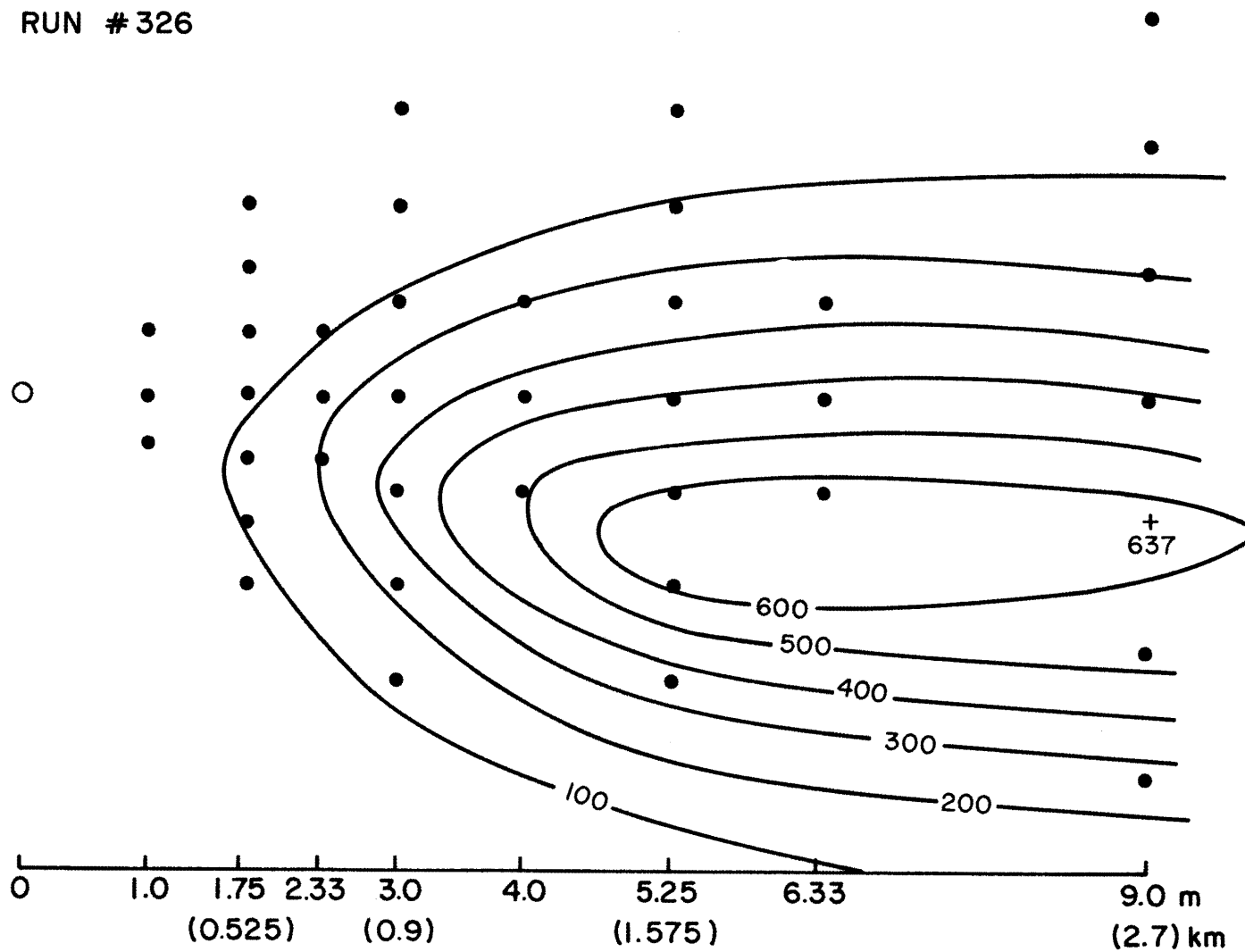
RUN # 325





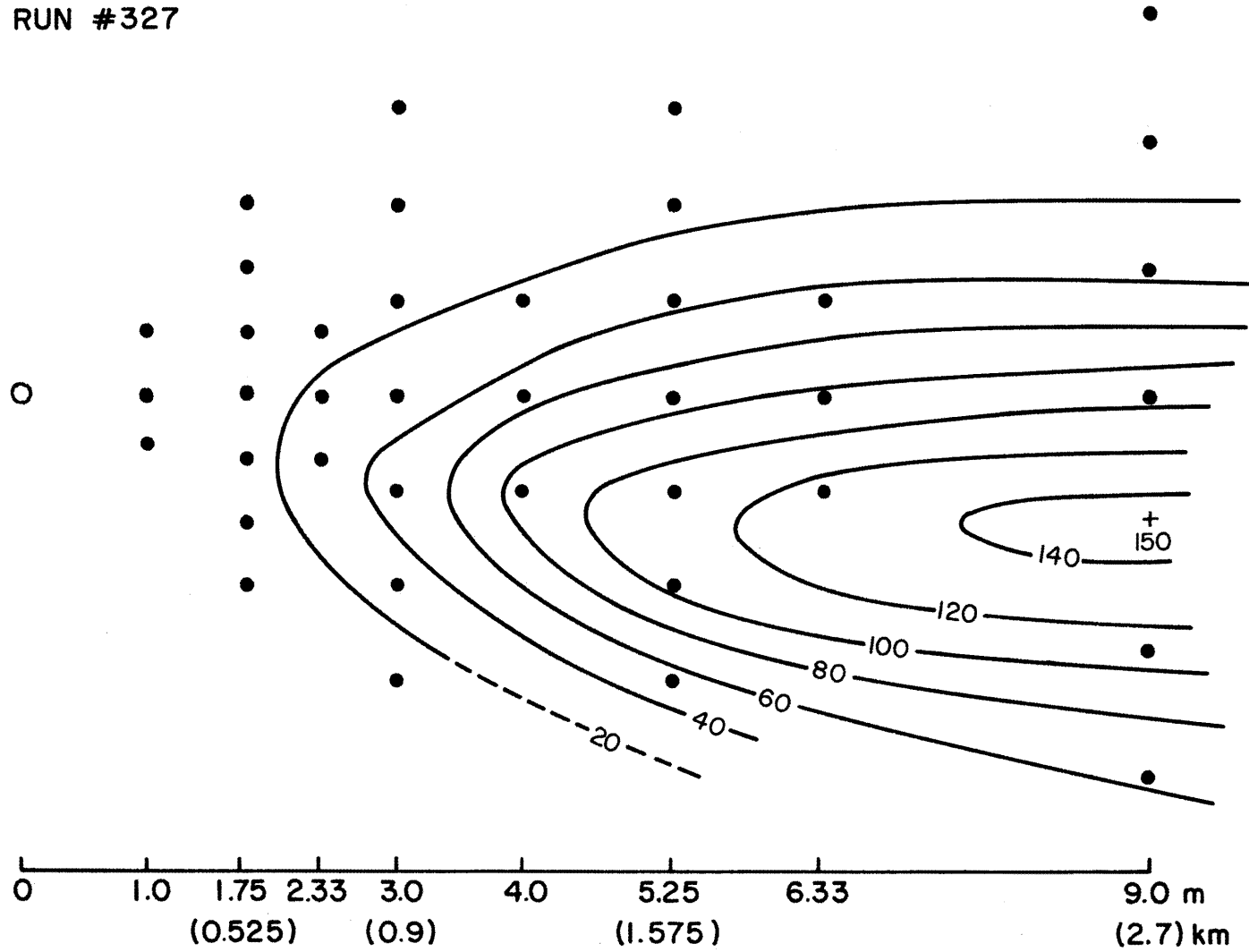
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 326



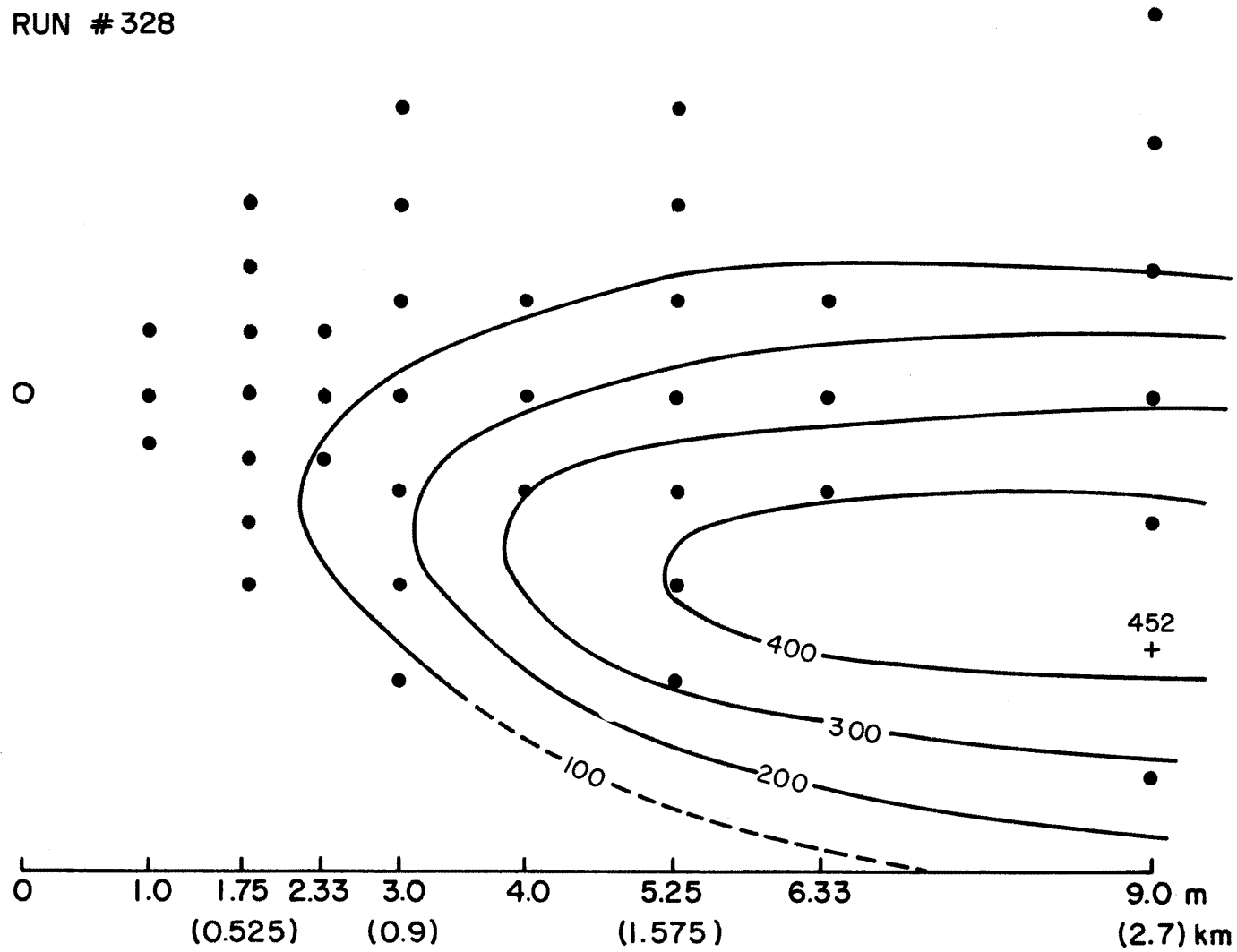
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION (μg/m<sup>3</sup>)

RUN #327



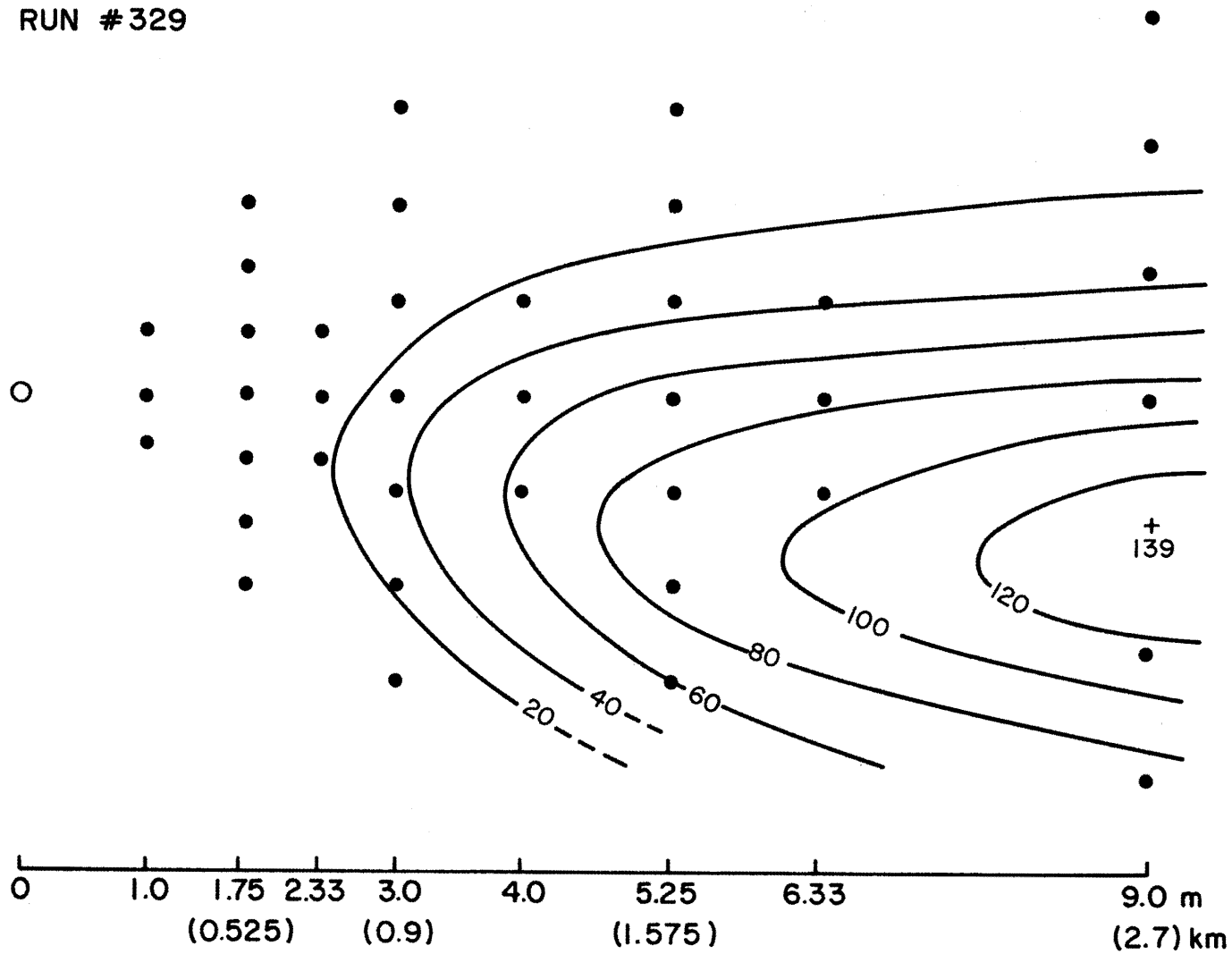
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN # 328



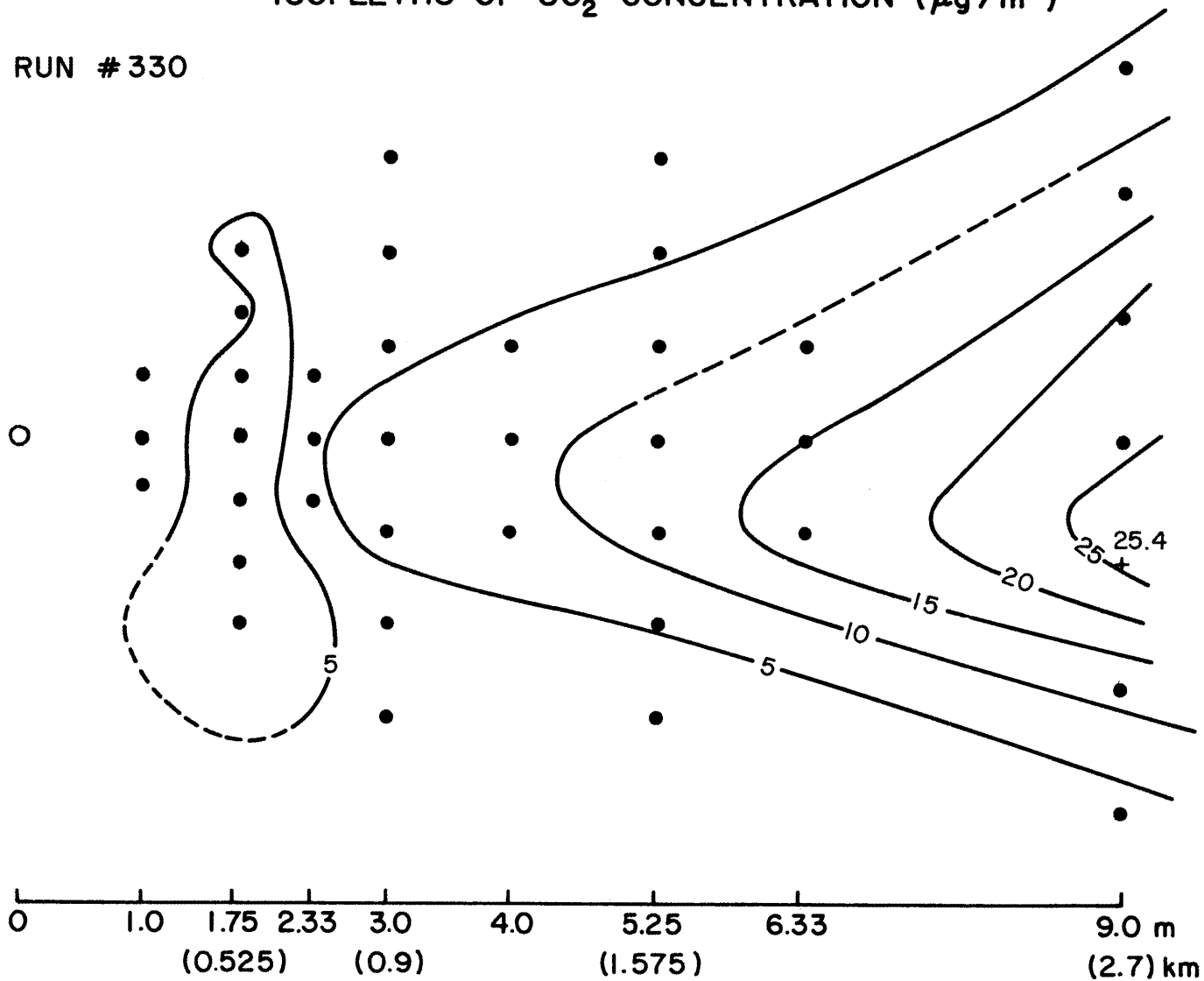
# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #329



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION (μg/m<sup>3</sup>)

RUN # 330



# ISOPLETHS OF SO<sub>2</sub> CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )

RUN #330R

