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Memo : re. Fish Lake Variography

Data Analysis

- in the course of preparing the data for a variogram analysis the following errors or discrepancies were found in the data base

- Drill Hole	Error
F89-12	From To 66.0 79.0 should be 66.0 69.0
F84-5	From To's 184.0 to 202.7 repeated twice
N70-1	From To's 8.7 to 61.0 repeated twice
N70-2	From To's 24.1 to 61.0 repeated twice
PH69-1	From To's 12.2 to 82.3 repeated twice
PH69-2	From To's 9.1 to 91.4 repeated twice
PH69-3	From To's 7.9 to 91.4 repeated twice
PH69-4	From To's 7.6 to 91.4 repeated twice
PH69-6	From To's 3.7 to 91.4 repeated twice
PH69-7	From To's 3.7 to 106.7 repeated twice
PH69-8	From To's 15.2 to 121.9 repeated twice
PC82-9	Two samples at end of hole no From To's

Variography

- the data base was corrected where possible and drill holes within the Window of 9475N , 9400E and 10650N, 10800E were selected for analysis

- 15 m. bench composites were formed between the elevations 1470 and 1140

- values with zero grade were considered not assayed and dropped from the variogram analysis

- horizontal relative semi-variograms were produced for both gold and copper in four directions for each bench and then averaged (E to W, N to S, SW to NE and SE to NW)

- Copper

- a nugget effect of .11 and a sill of .34

- a drift is indicated in the SE-NW direction on pairs beyond 600 m.

- this drift is a result of the low grade to high grade zonation in this direction (See SE - NW Cross Section)

- a geometric anisotropy was indicated with ranges of

350 m. - E-W

320 m. - N-S

500 m. - SW-NE

300 m. - SE-NW

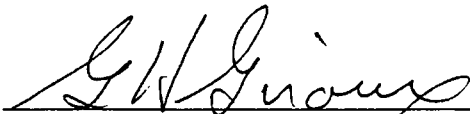
- this anisotropy indicated the direction of Maximum continuity was about N55E

- the data was rotated and variograms produced along the directions of maximum and minimum continuity giving ranges of 560 m. at N55E and 290 m. at N145E

- Gold
 - gold indicated a very similar pattern to copper
 - a nugget effect of .22 and a sill of .44
 - this nugget effect to sill ratio is 50% as compared to 33% for copper and indicates the estimation errors for gold will be higher
 - again a drift is indicated in the SE-NW direction on pairs beyond 300 m.
 - this drift is a result of the low grade to high grade zonation in this direction (See SE - NW Cross Section)
 - a geometric anisotropy was indicated with ranges of
 - 160 m. - E-W
 - 300 m. - N-S
 - 360 m. - SW-NE
 - 200 m. - SE-NW
 - this anisotropy indicated the direction of Maximum continuity was about N40E
 - the data was rotated and variograms produced along the directions of maximum and minimum continuity giving ranges of 390 m. at N40E and 150 m. at N130E

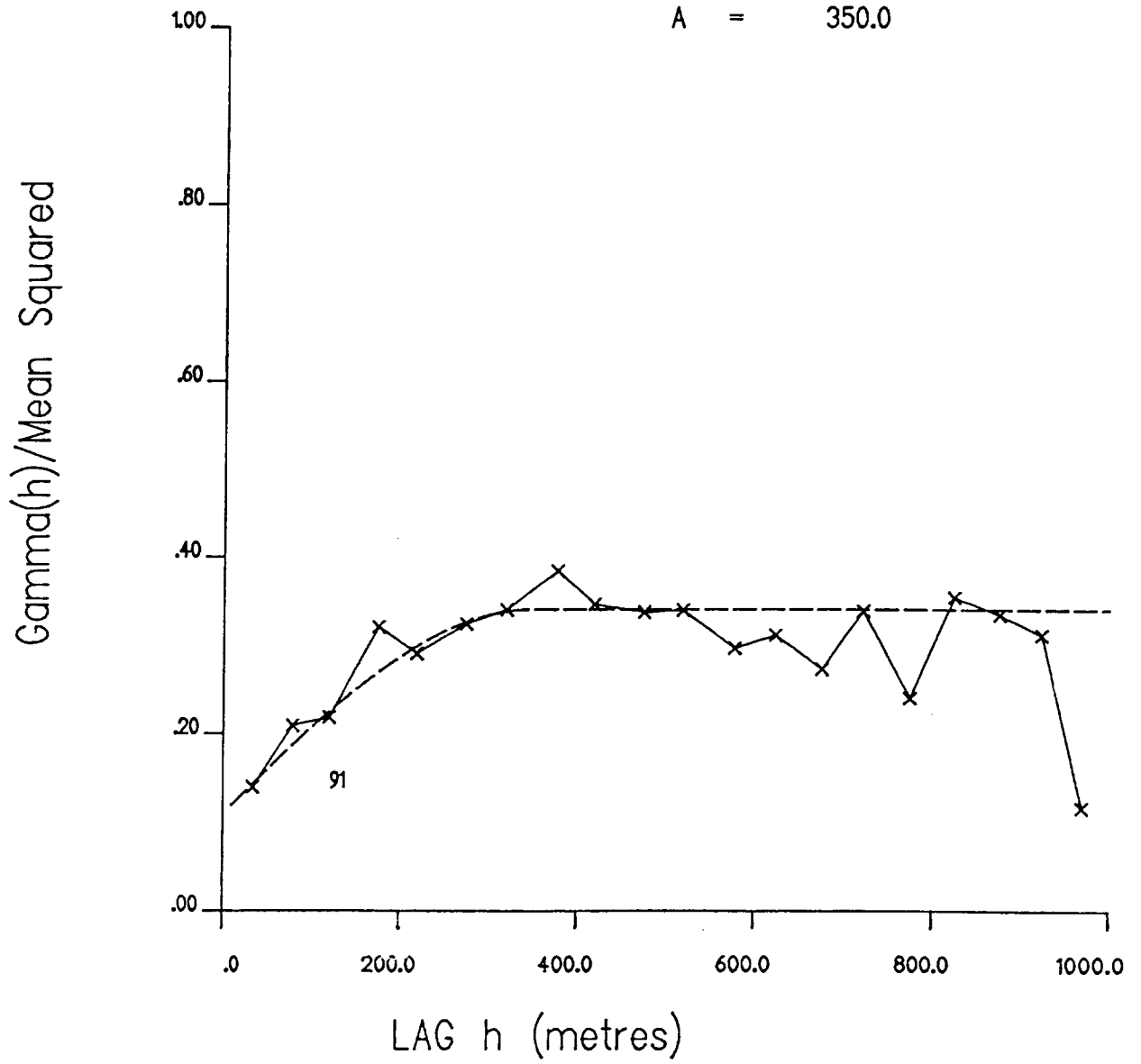
Conclusions

- the present drill hole spacing seems adequate to predict copper grades
 - for gold however holes in the SE-NW direction should be spaced no further than 150 m. apart
 - the drift that is evident in both copper and gold in the SE-NW direction reflects the zonation from high grade in the centre to low grade on the perimeter
 - in the perpendicular direction as shown in the SW-NE cross section the grades are much more uniform



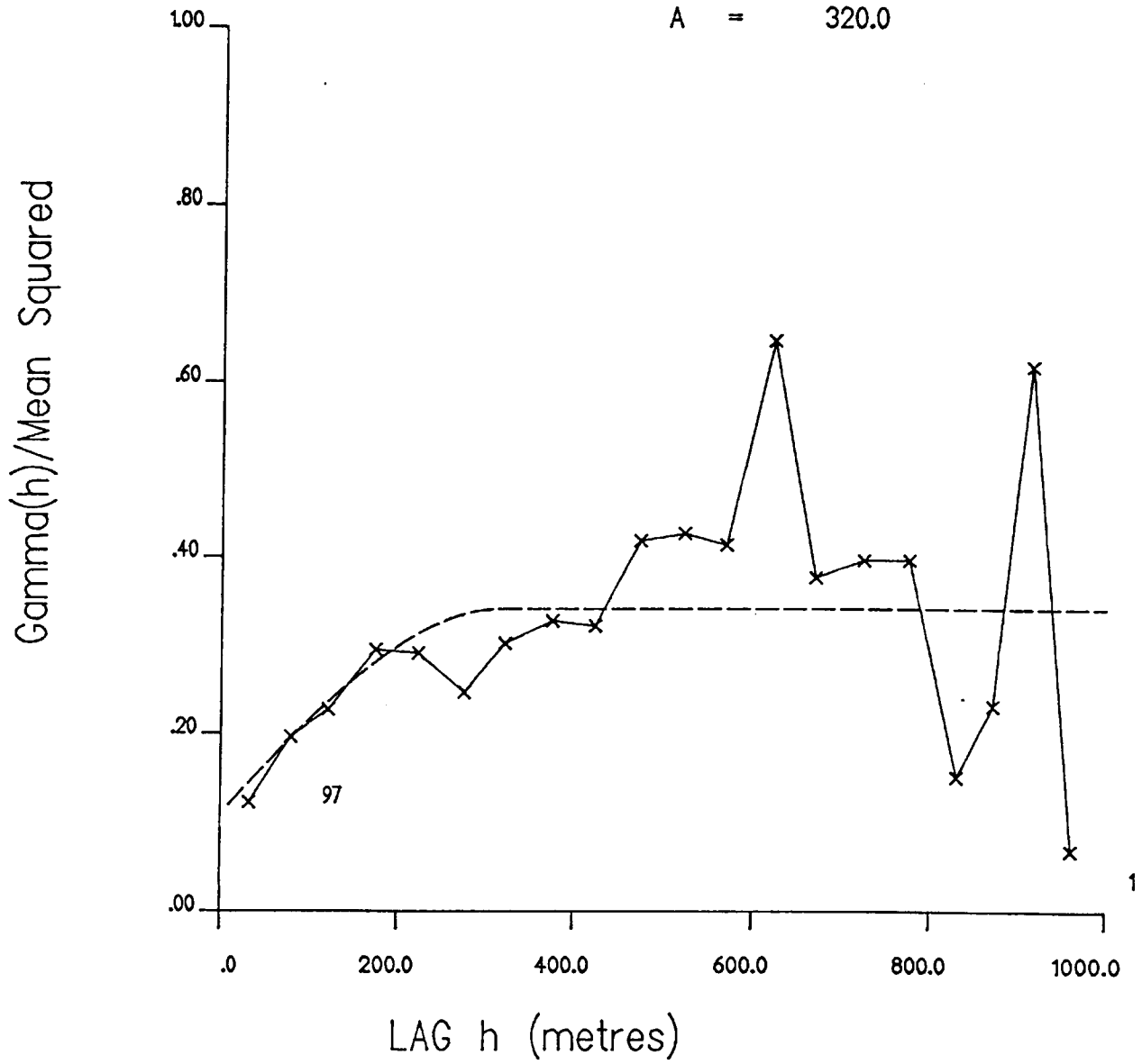
G.H. Giroux, P.Eng.
Montgomery Consultants Ltd.

C0 = .110
C1 = .230
A = 350.0



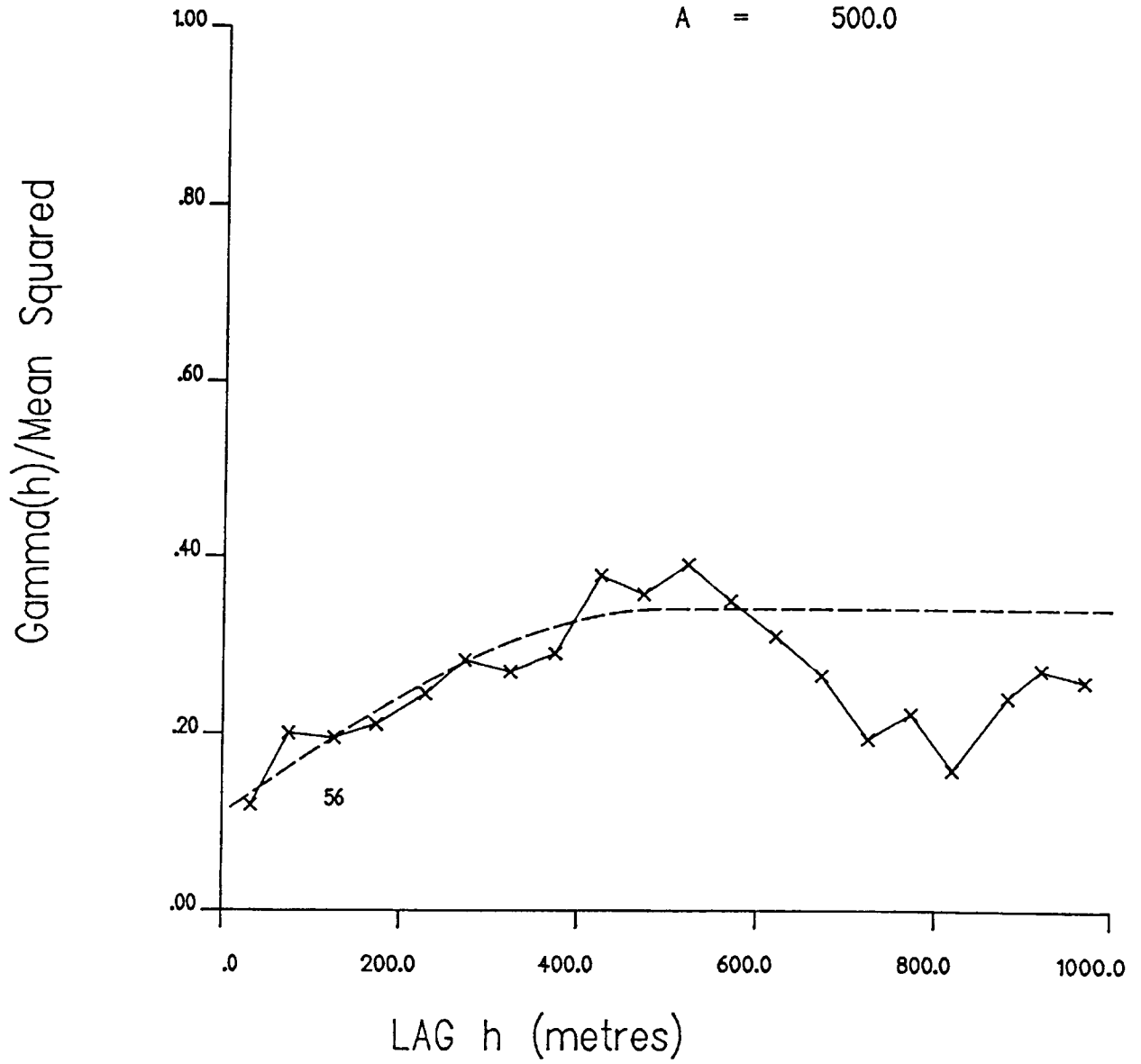
FISH LAKE CU - E-W DIRECTION

C0 = .110
C1 = .230
A = 320.0



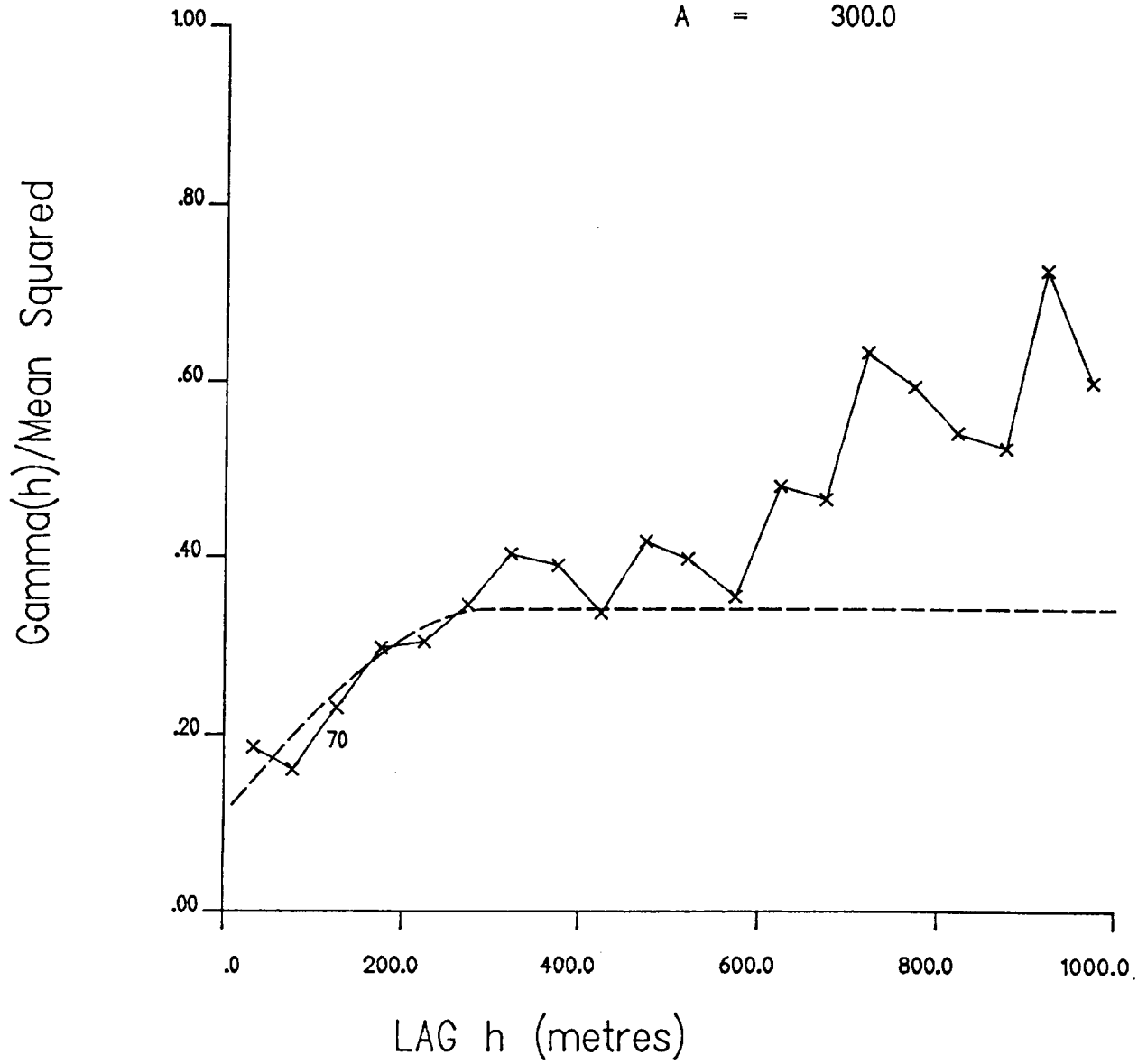
FISH LAKE CU - N-S DIRECTION

C0 = .110
C1 = .230
A = 500.0



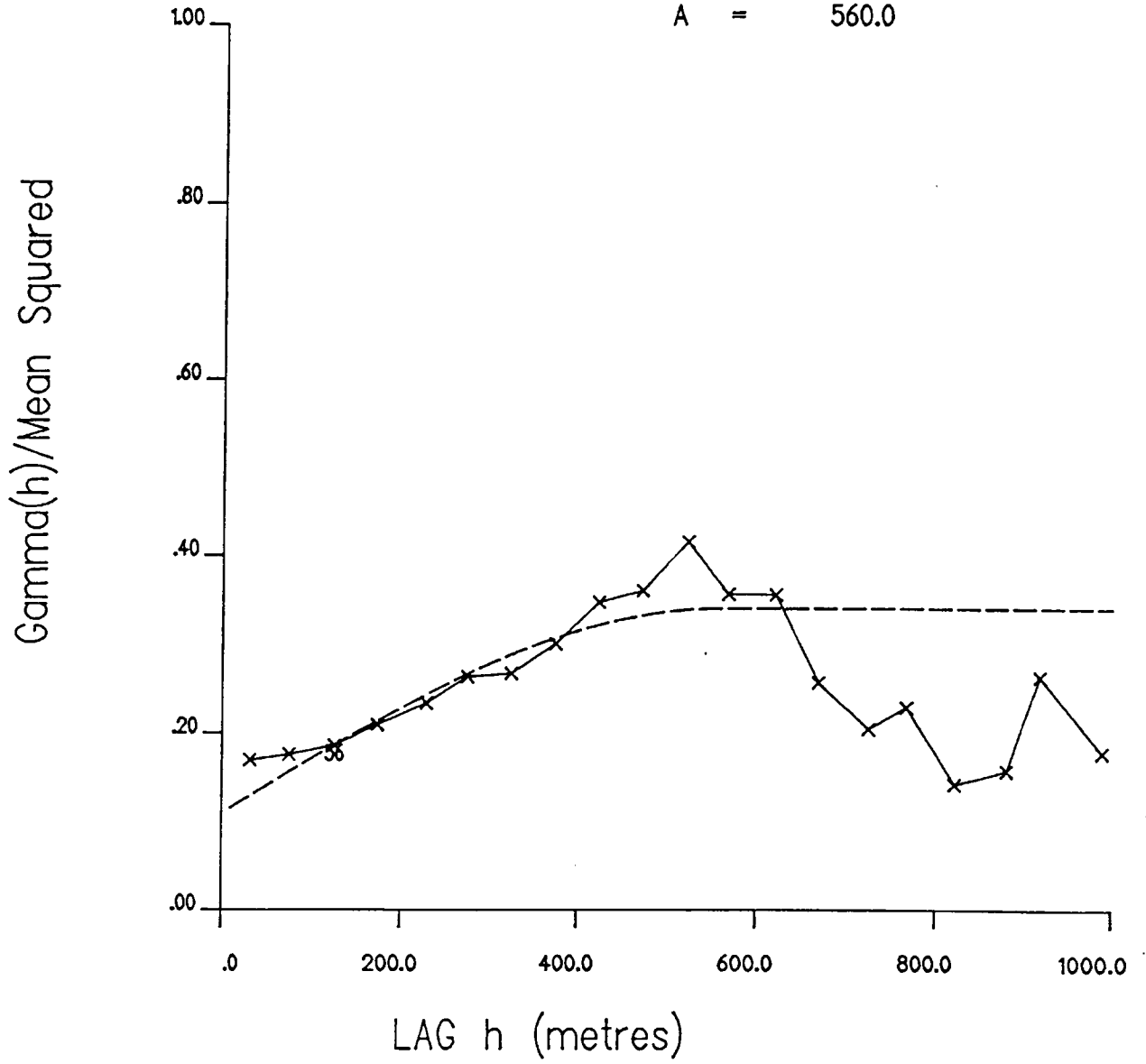
FISH LAKE CU - SW-NE DIRECTION

C0 = .110
C1 = .230
A = 300.0



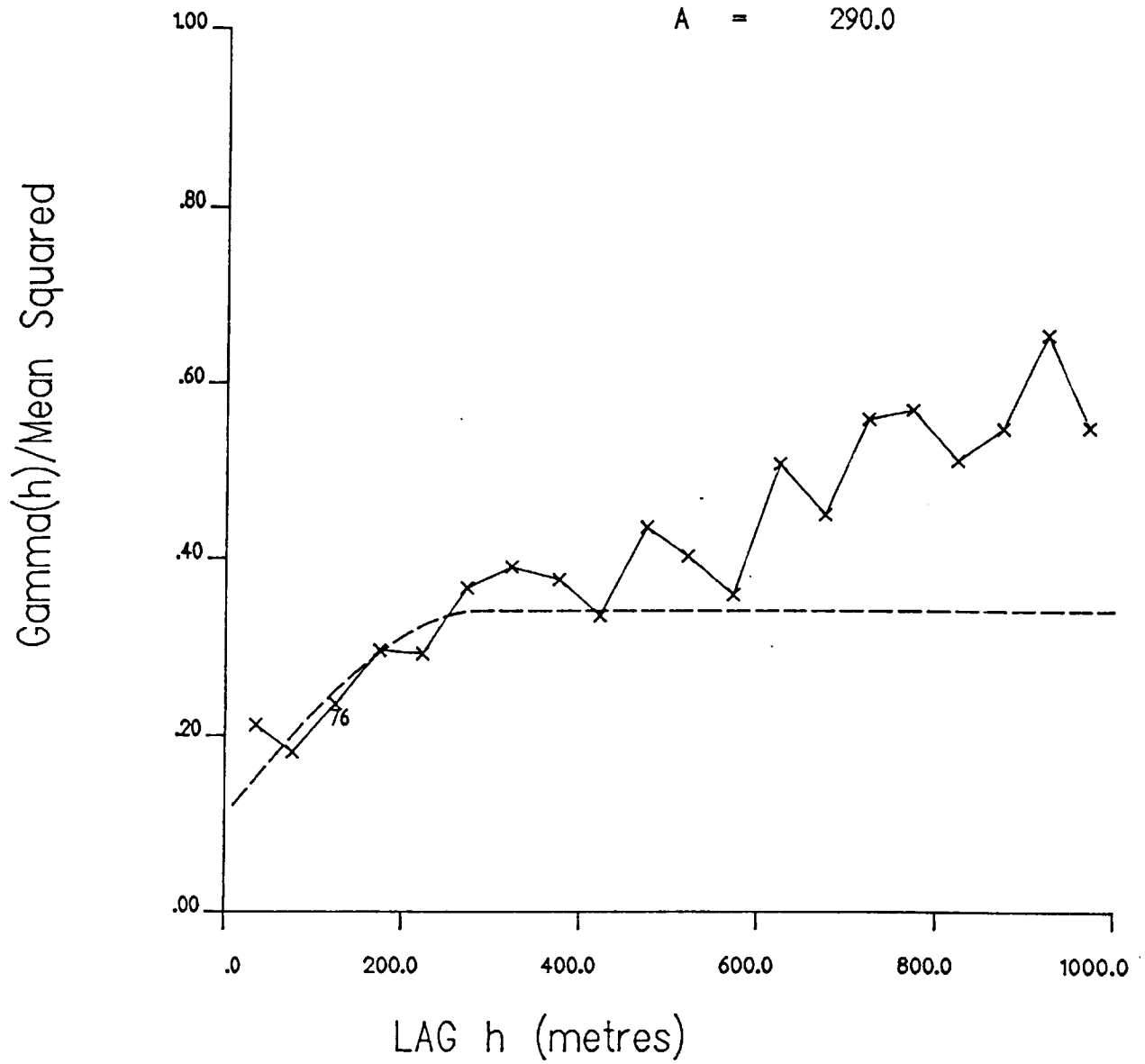
FISH LAKE CU - SE-NW DIRECTION

C0 = .110
C1 = .230
A = 560.0



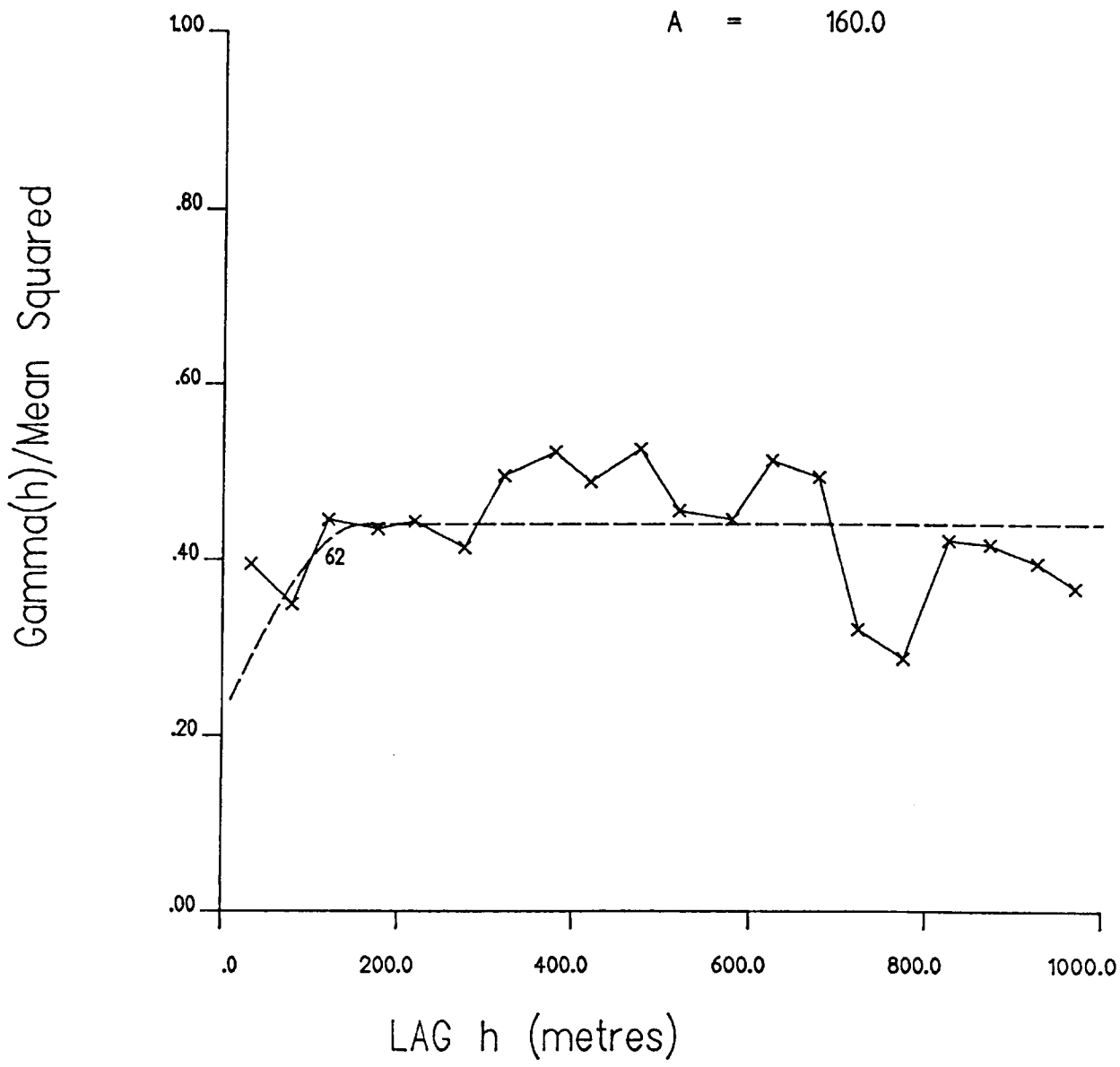
FISH LAKE CU - DIRECTION N55E

C0 = .110
C1 = .230
A = 290.0



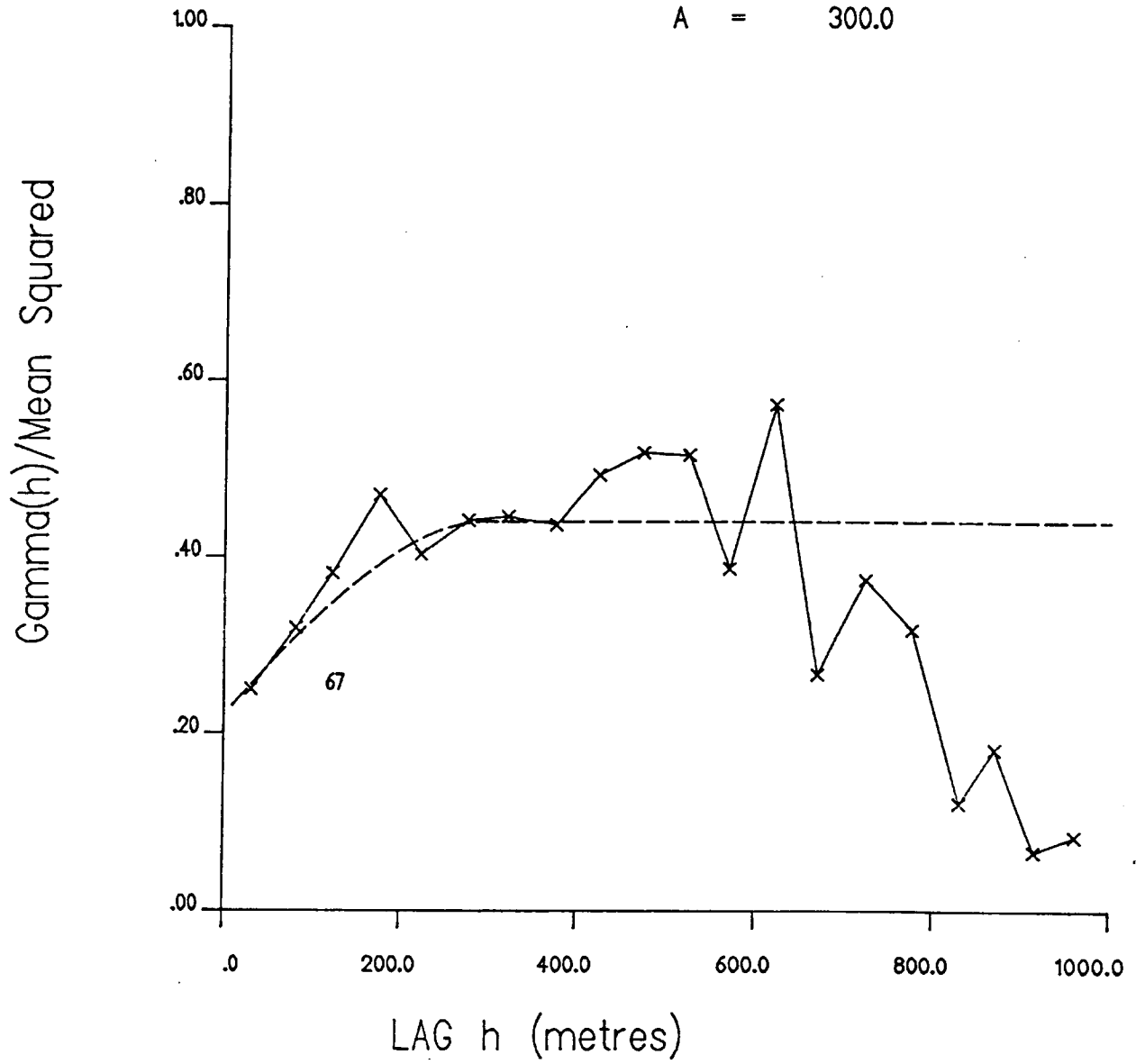
FISH LAKE CU - DIRECTION N145E

C0 = .220
C1 = .220
A = 160.0



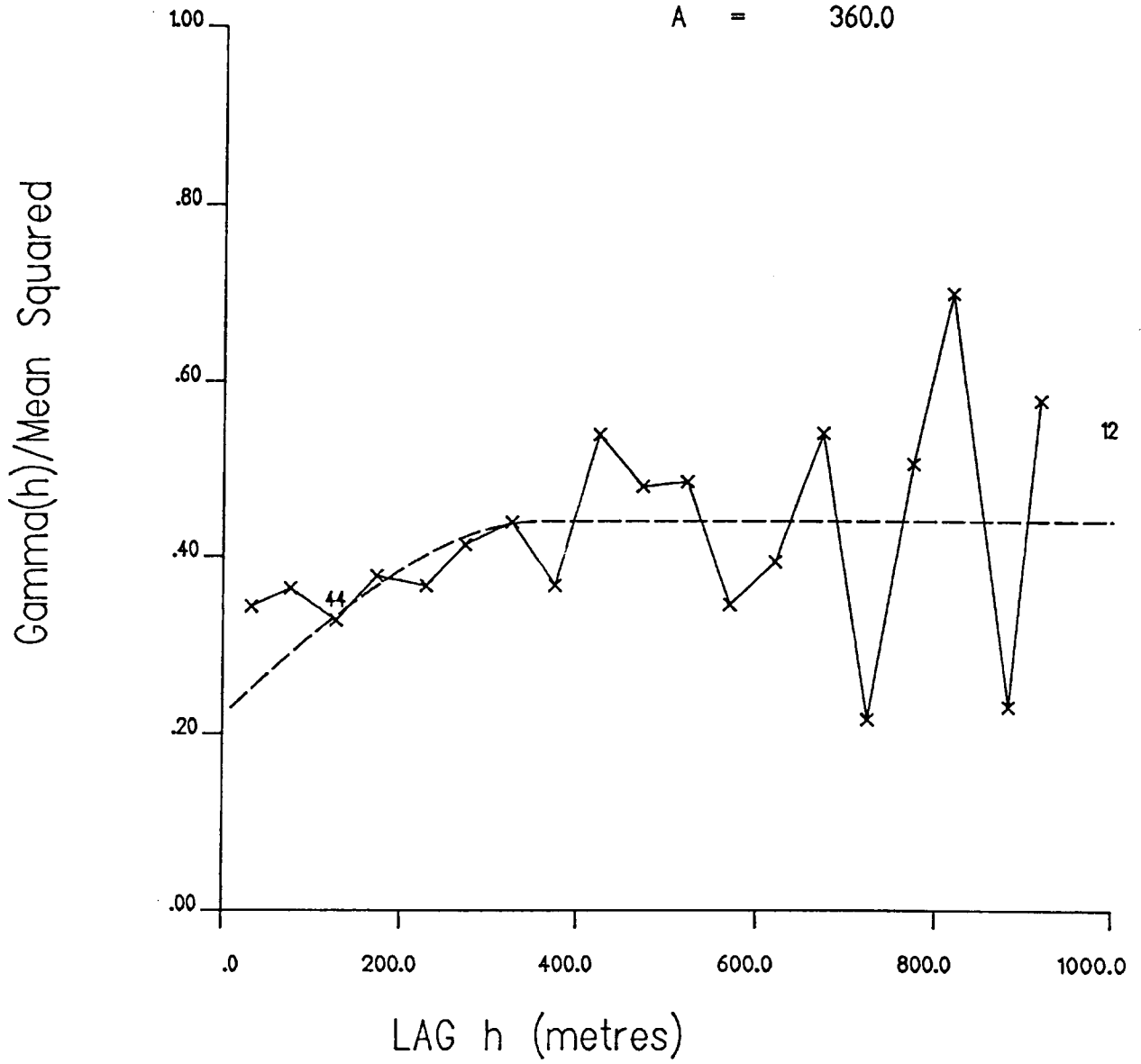
FISH LAKE AU - E-W DIRECTION

C0 = .220
C1 = .220
A = 300.0



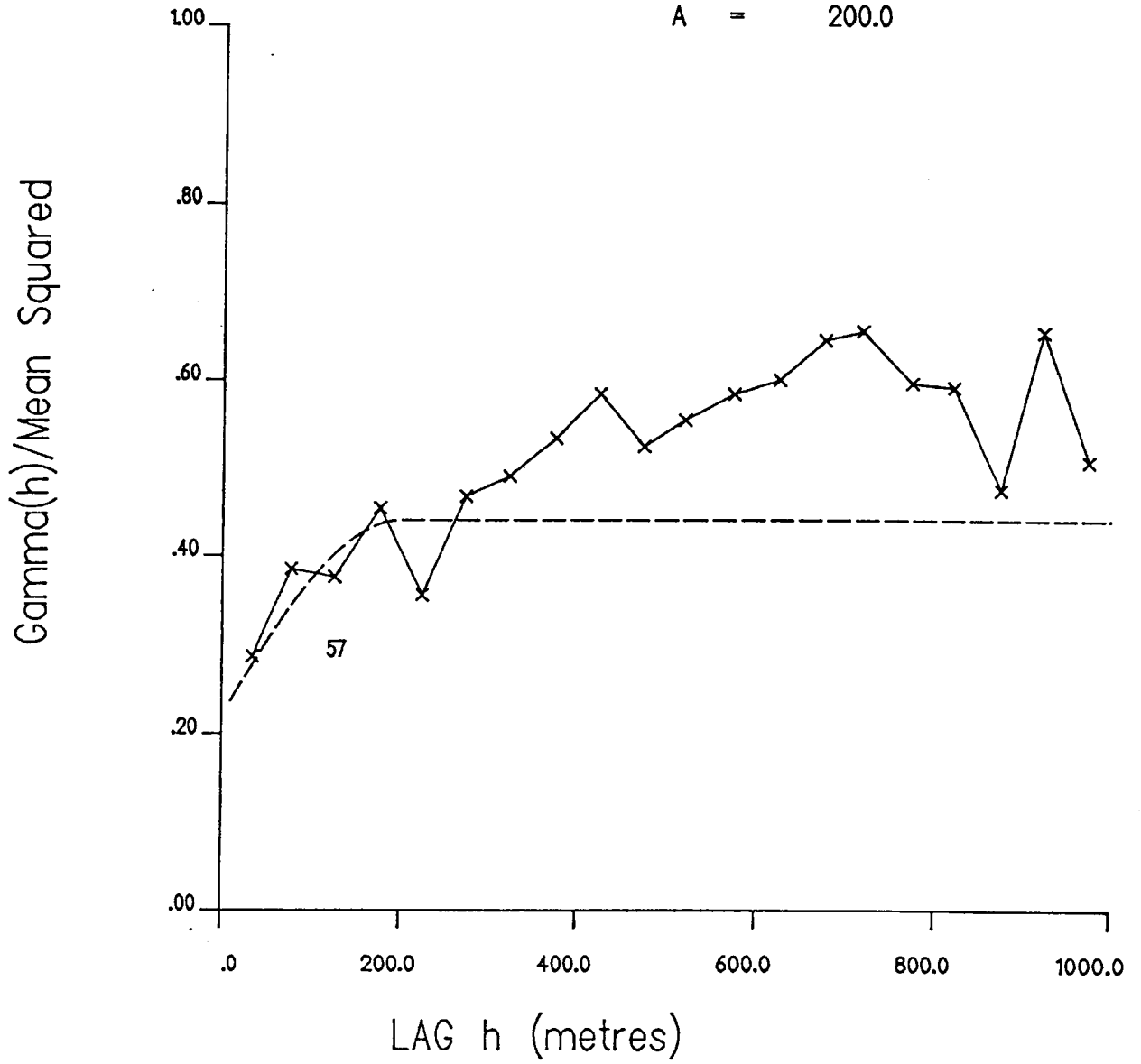
FISH LAKE AU - N-S DIRECTION

C0 = .220
C1 = .220
A = 360.0



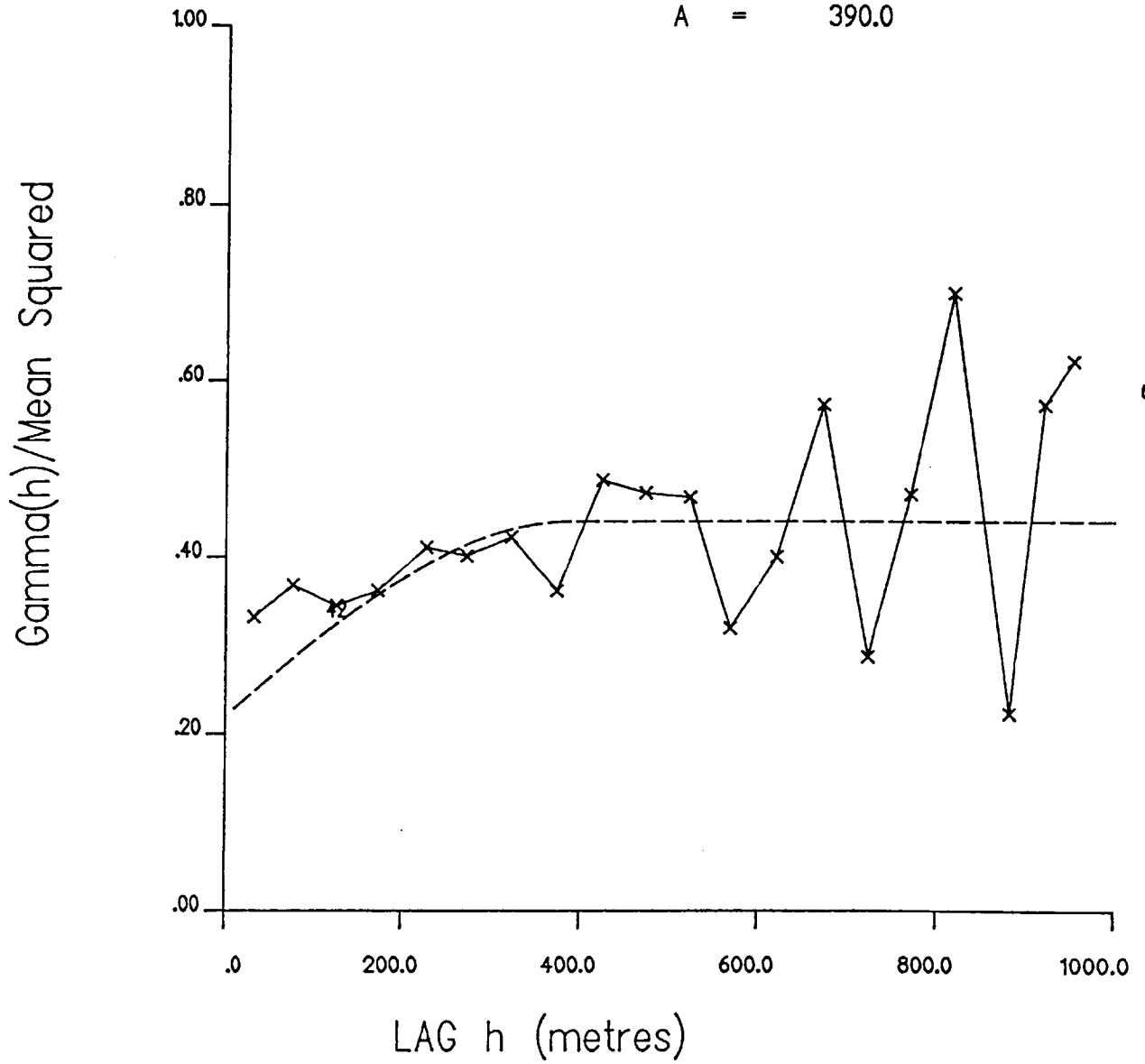
FISH LAKE AU - SW-NE DIRECTION

C0 = .220
C1 = .220
A = 200.0



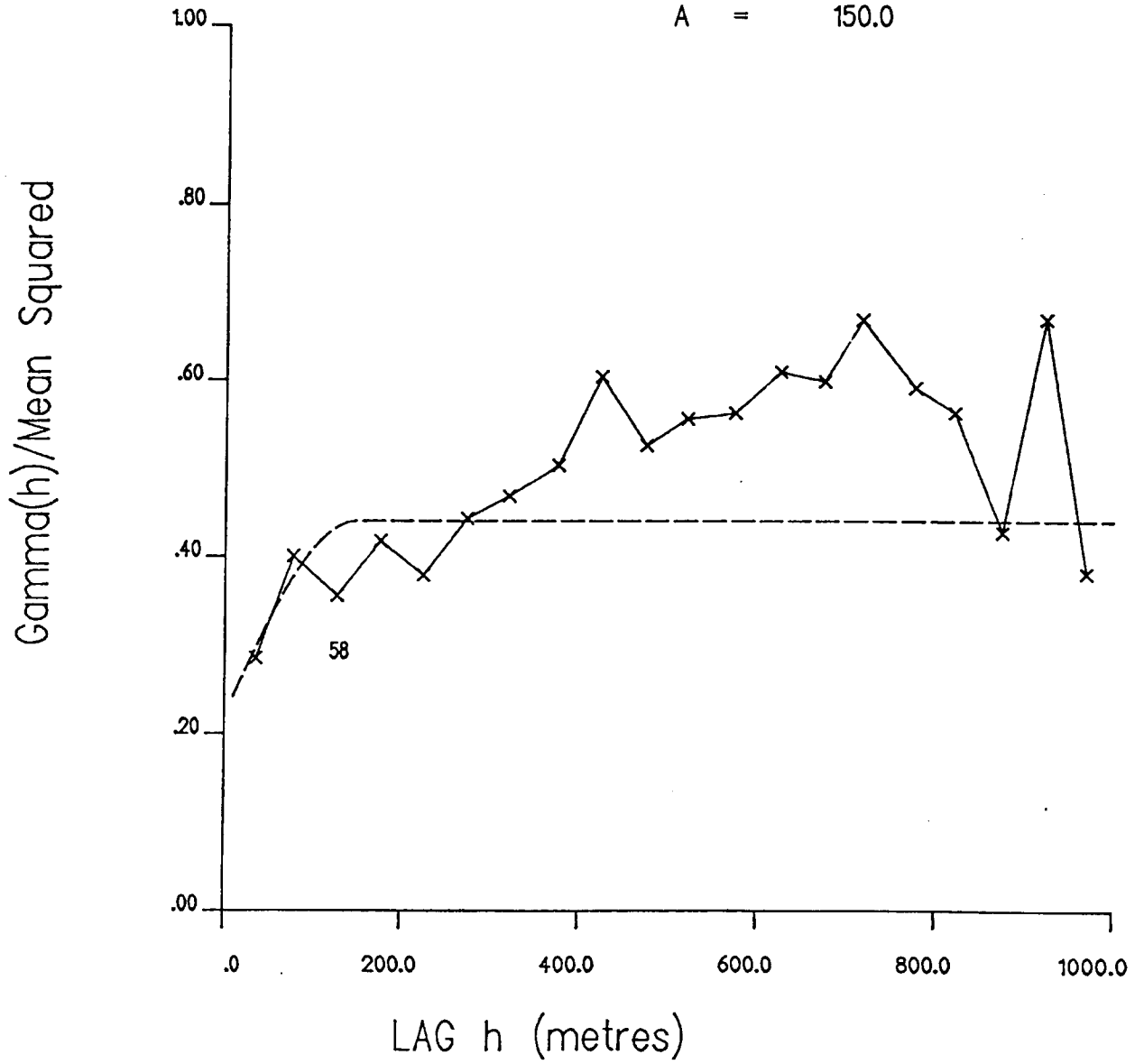
FISH LAKE AU - SE-NW DIRECTION

C0 = .220
C1 = .220
A = 390.0



FISH LAKE AU - DIRECTION N40E

C0 = .220
C1 = .220
A = 150.0



FISH LAKE AU - DIRECTION N130E