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NASA-CR 86327

CORRELATION OF GRAVIMETRIC
AND SATELLITE GEODETIC DATA

Interim Progress Report Part II

Covering Period

September 11, 1967 - February 29, 1968

Prepared by

Gerald Ouellette
Pasquale Sconzo

Under

Contract NAS 12-598

for

National Aeronautics and Space Administration
Electronics Research Center
Cambridge, Massachusetts

CASE FILE
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Center for Exploratory Studies
Rockville, Maryland

IBM

SP759408

Correlation of Gravimetric
and
Satellite Geodetic Data

Prepared by
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International Business Machines Corporation
1730 Cambridge Street
Cambridge, Massachusetts

Contract Number NAS 12 - 598

Interim Scientific Report
Part II
Appendix B

Covering Period September 11, 1967 - February 29, 1968

Prepared for
Space Systems Group
National Aeronautics and Space Administration
Electronics Research Center
545 Technology Square
Cambridge, Massachusetts

Prepared by
Gerald A. Ouellette and Pasquale Sconzo

Graphical Results

This appendix contains the graphical results obtained from the computer. Each graph depicts the positional errors resulting from the inclusion of a given value for one harmonic coefficient. In Section 1, the values used are those published by Rapp as best estimates for the harmonics. In Section 2, the values used are the standard errors associated with each harmonic as published by Rapp. This was achieved by the use of the F factor as described in Section 3.1. It will be noticed that a slight variation in this technique is required in the graphs for zonal harmonics through $C_{4,0}$. This is simply due to the fact that these harmonics were included in the nominal trajectory.

Section 3 contains some preliminary results parameterized with period (semi-major axis).

The secular trend exhibited by many of the graphs is one which can be accounted for (see Section 2.1). Consequently, the prediction error in these graphs is considered to be given by the amplitude of the oscillation about the secular trend.

SECTION I

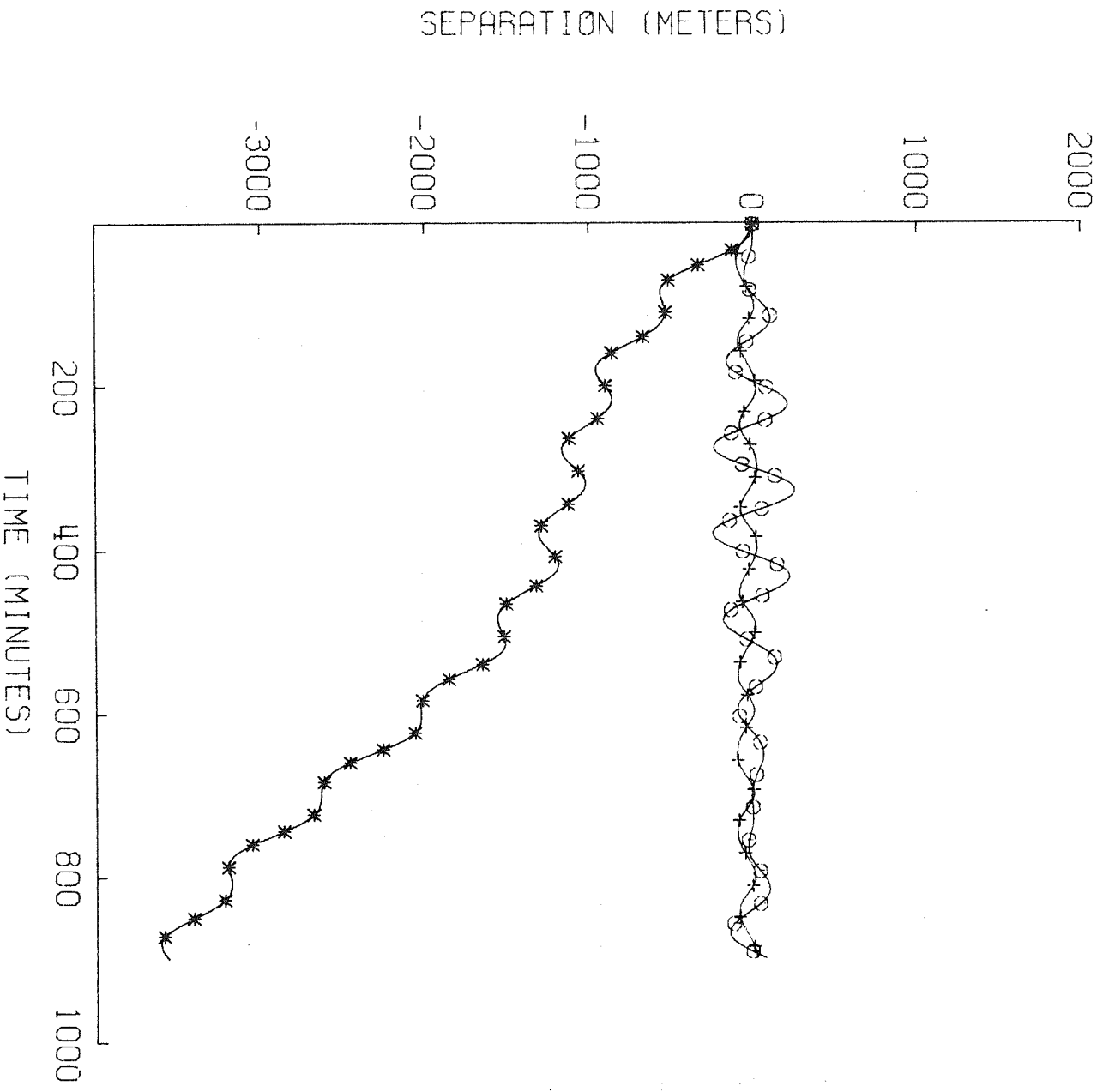
GRAPHICAL OUTPUT FOR HARMONIC VALUES

EQUAL TO PUBLISHED VALUES

M OMEGA C OMEGA I E A
 0.0000 0.0000 0.0000 45.00000 .00500000 7139.6535

RUN FOR C(2 , 2) = 2.3241
 FACTOR USED IS 1.000000

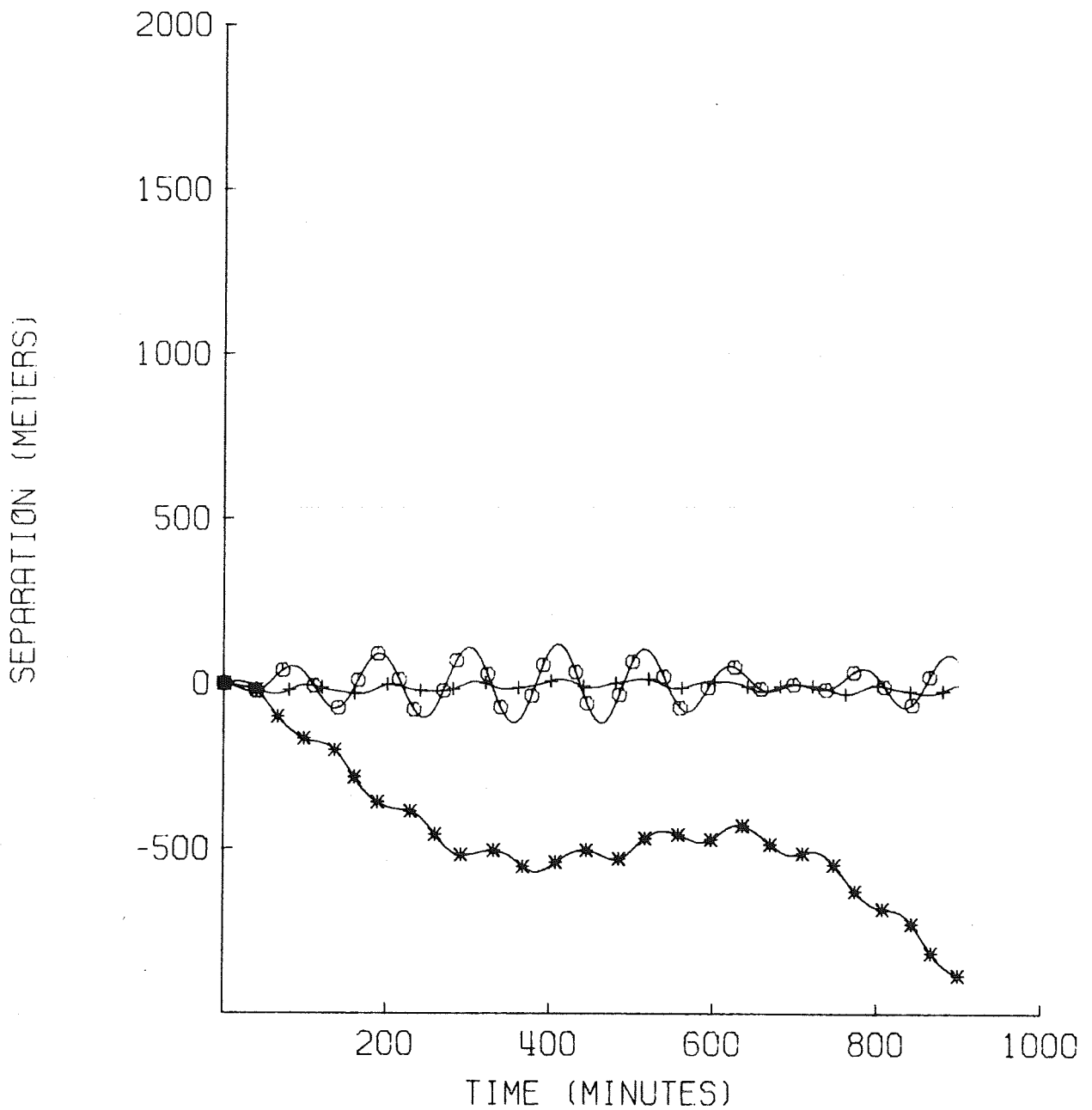
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(2 , 2) = -1.3106
 FACTOR USED IS 1.000000

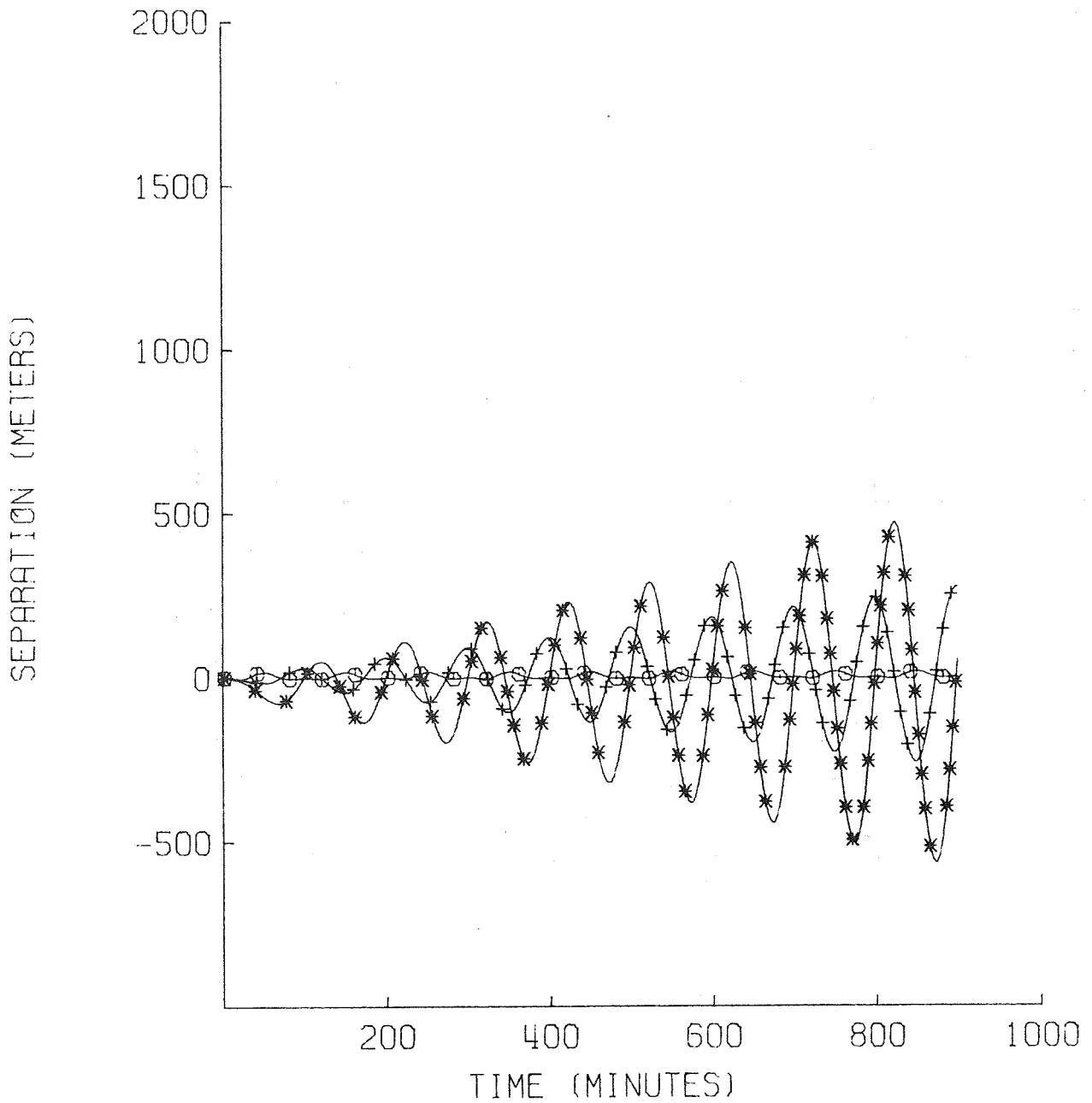
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(3 , 0) = .9025
 FACTOR USED IS 2.000000

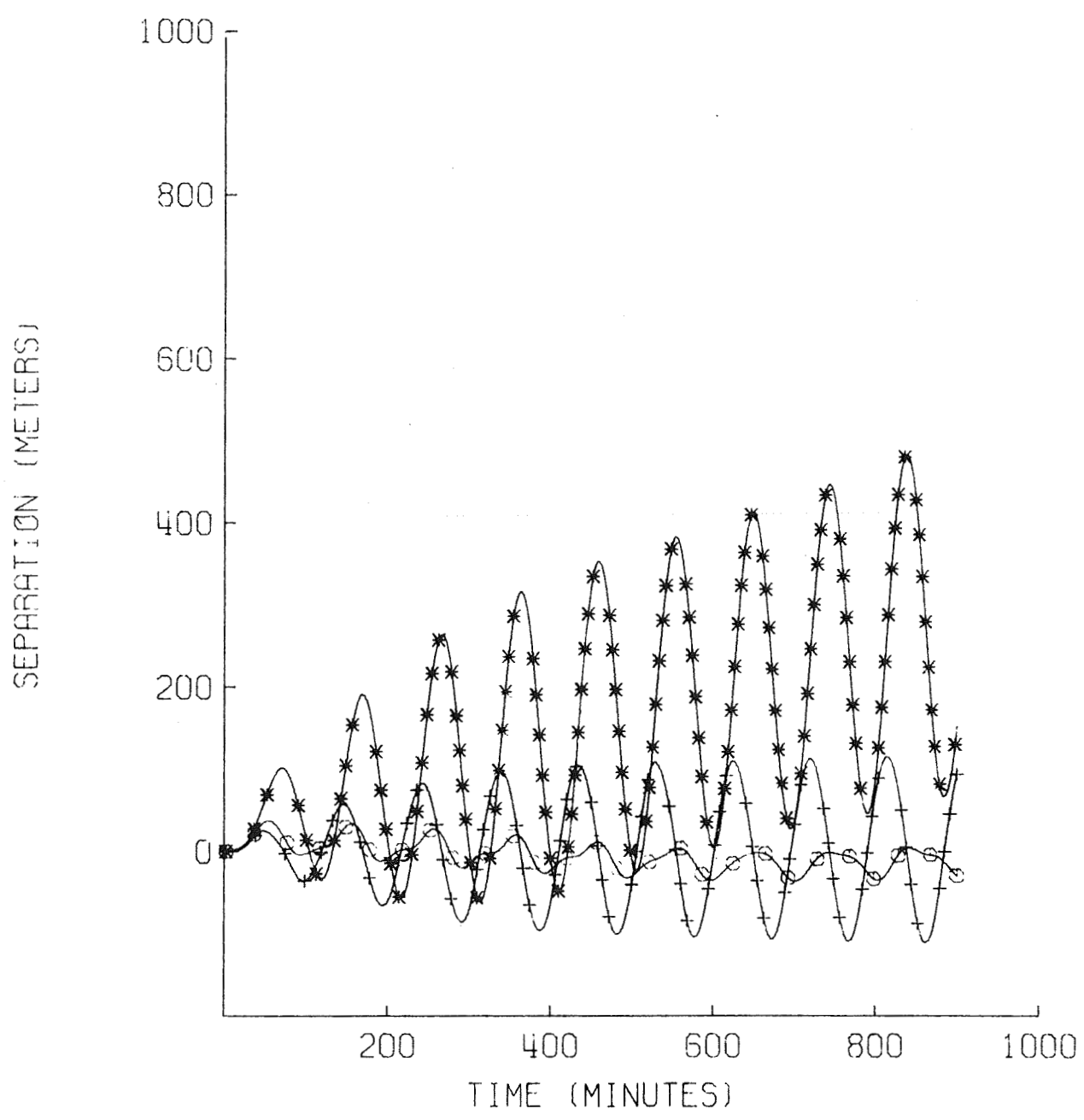
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 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(3 , 1) = 1.7842
 FACTOR USED IS 1.000000

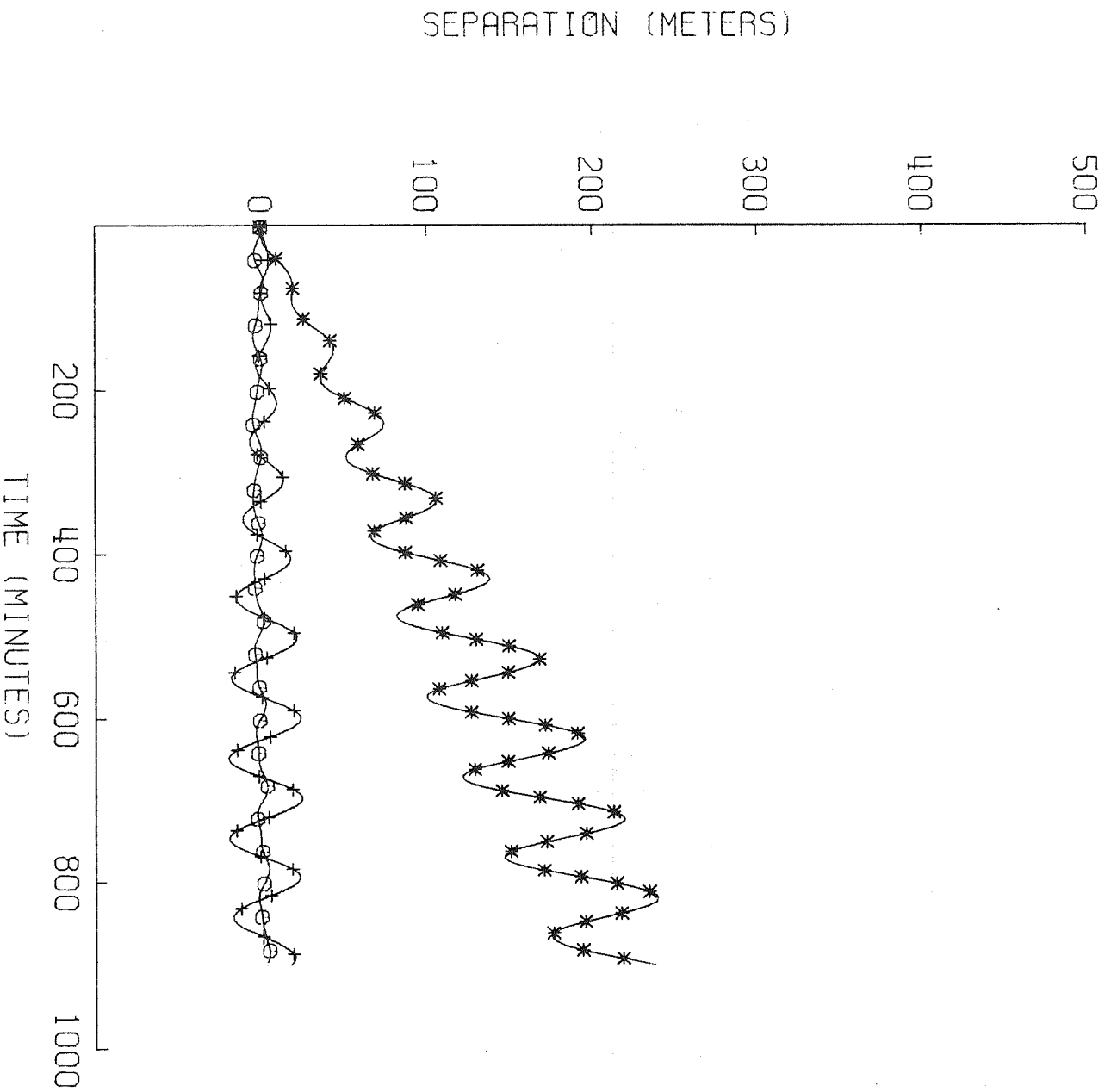
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
 0.0000 0.0000 0.0000 45.00000 .00500000 7135.6535

RUN FOR S(3 , 1) = .2601
 FACTOR USED IS 1.000000

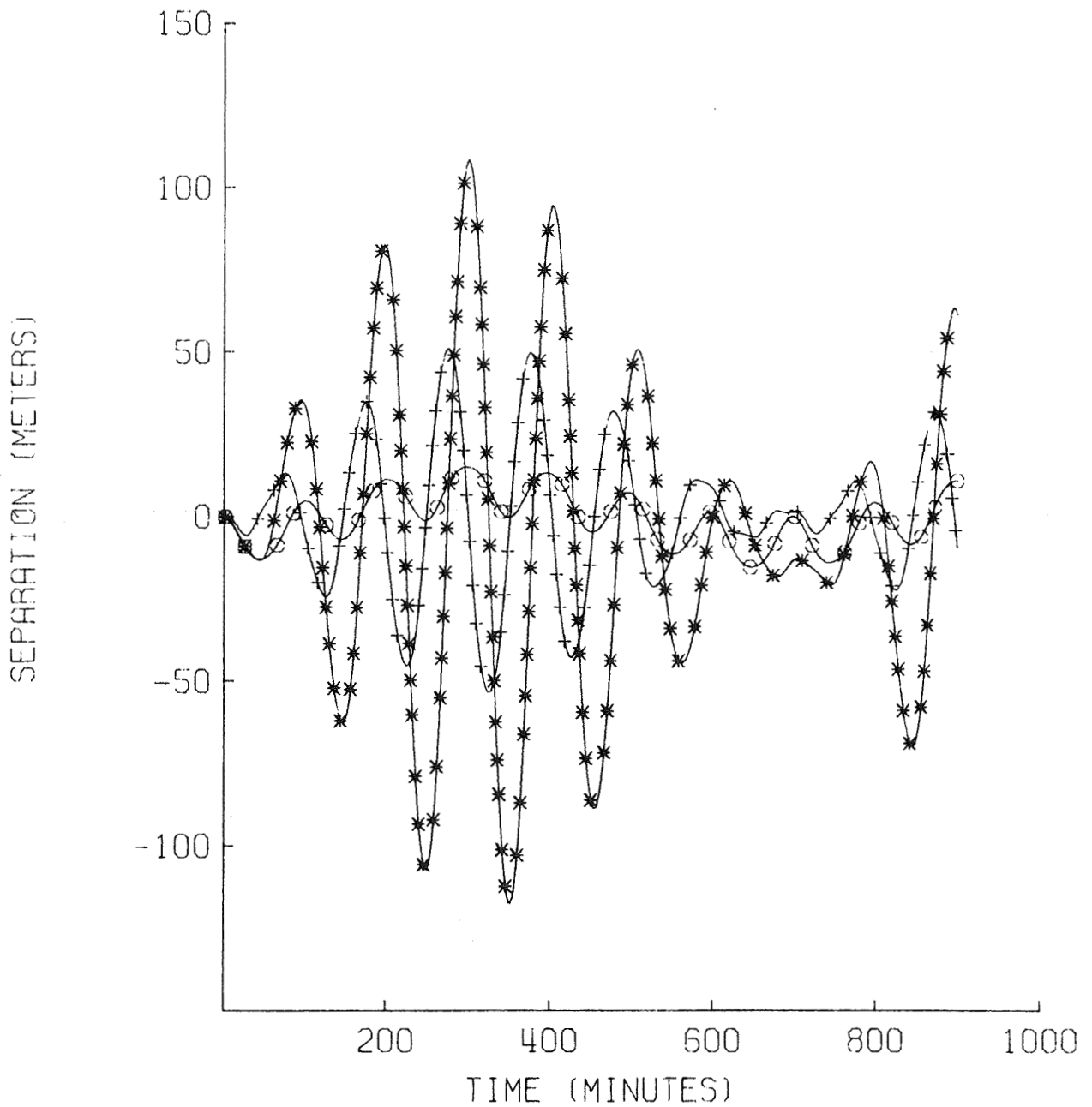
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(3 .2) = .7224
 FACTOR USED IS 1.000000

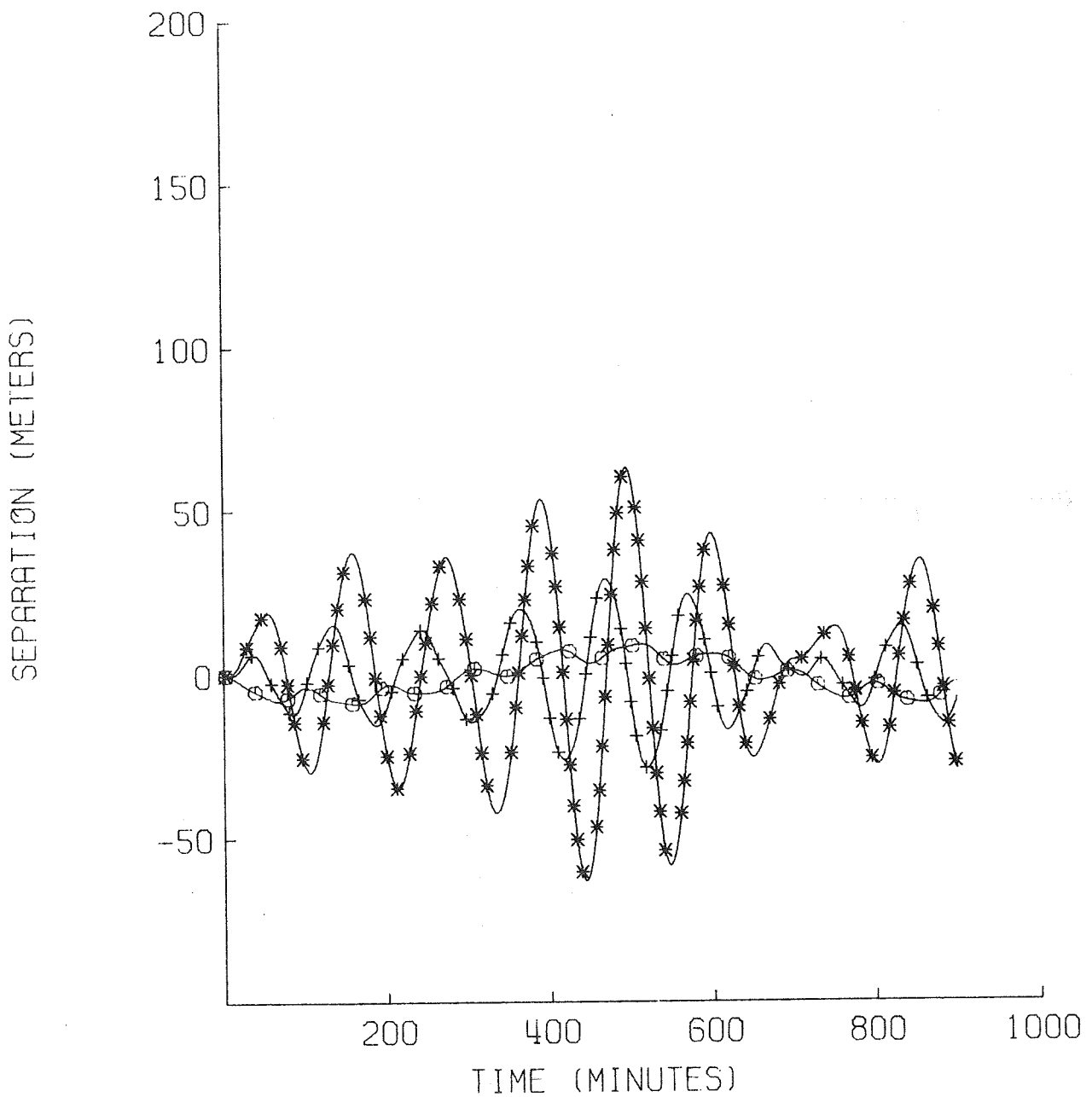
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
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RUN FOR S(3 , 2) = -.5755
 FACTOR USED IS 1.000000

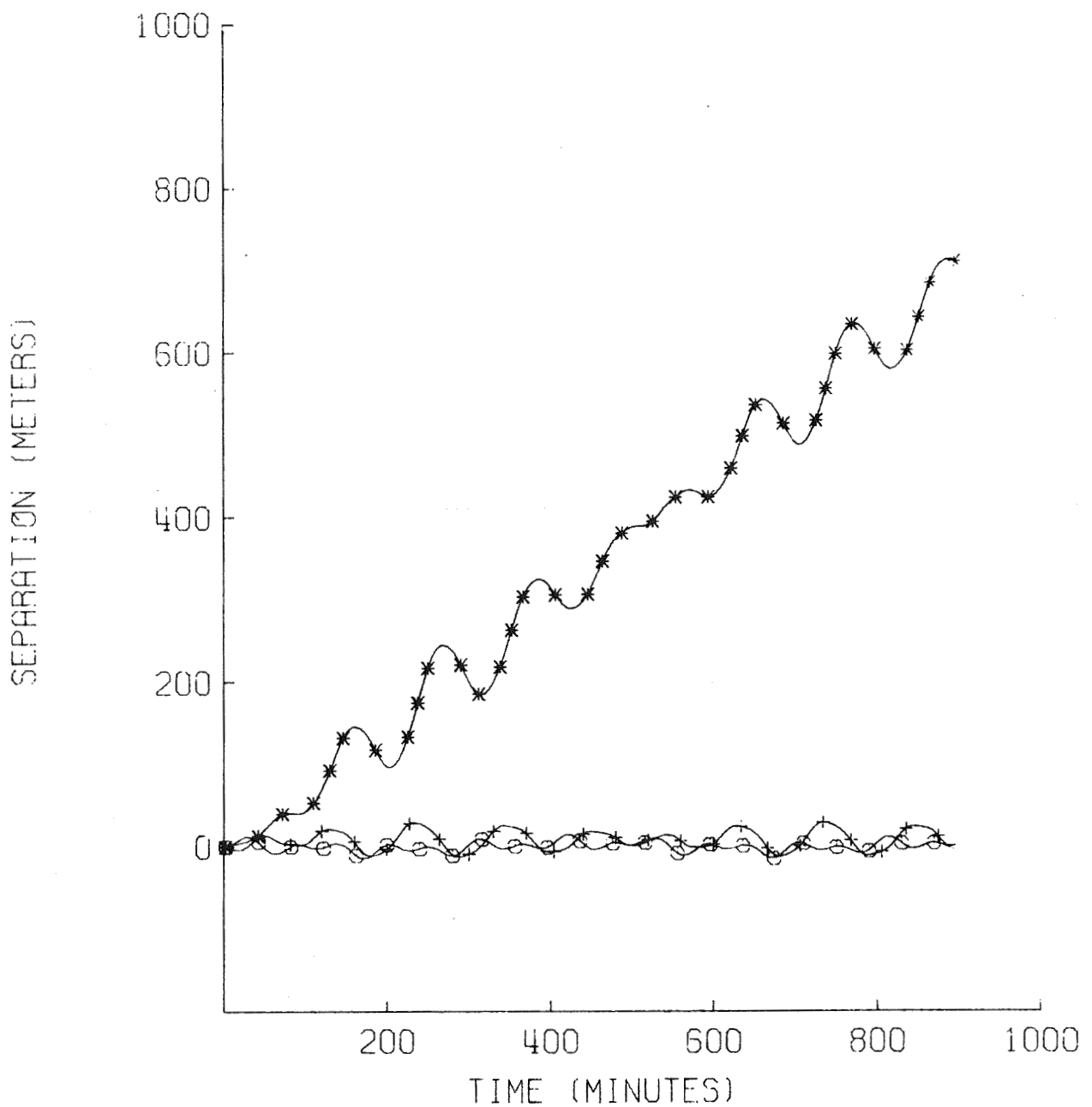
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
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RUN FOR C(3 , 3) = .7240
 FACTOR USED IS 1.000000

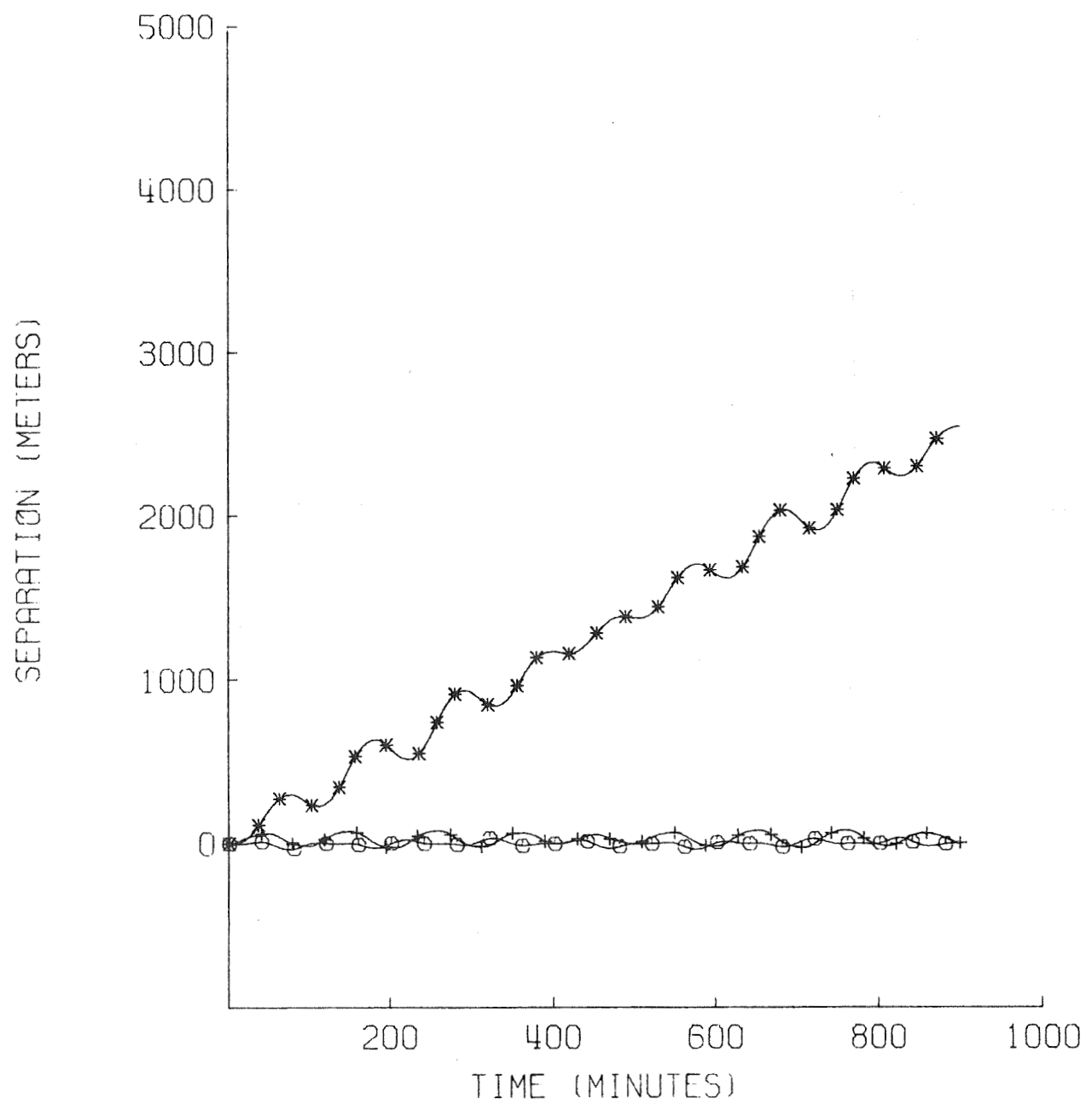
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(3 ,3) = 1.3860
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

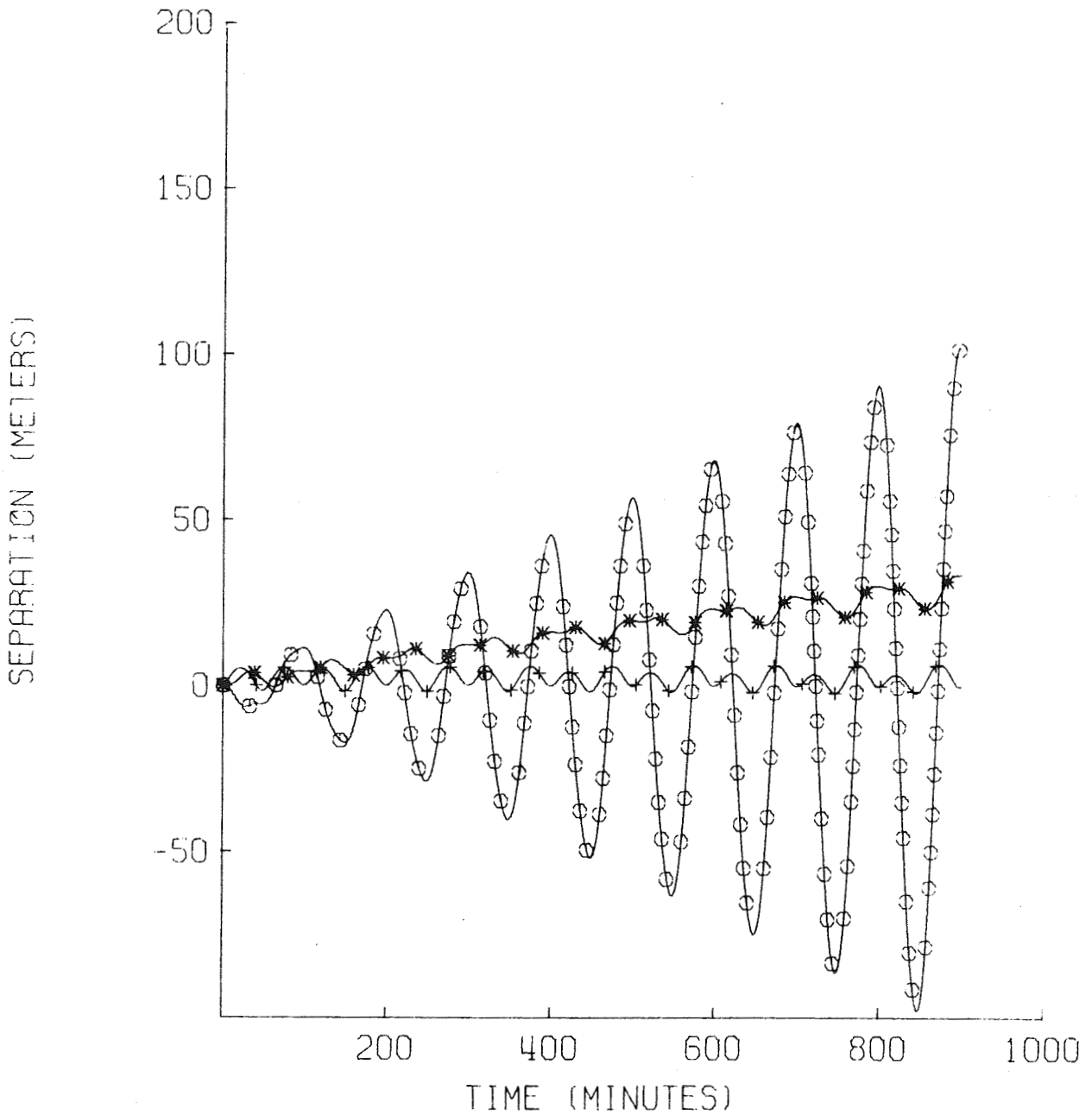
RUN FOR C(4 , 0) = .5608

FACTOR USED IS 2.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

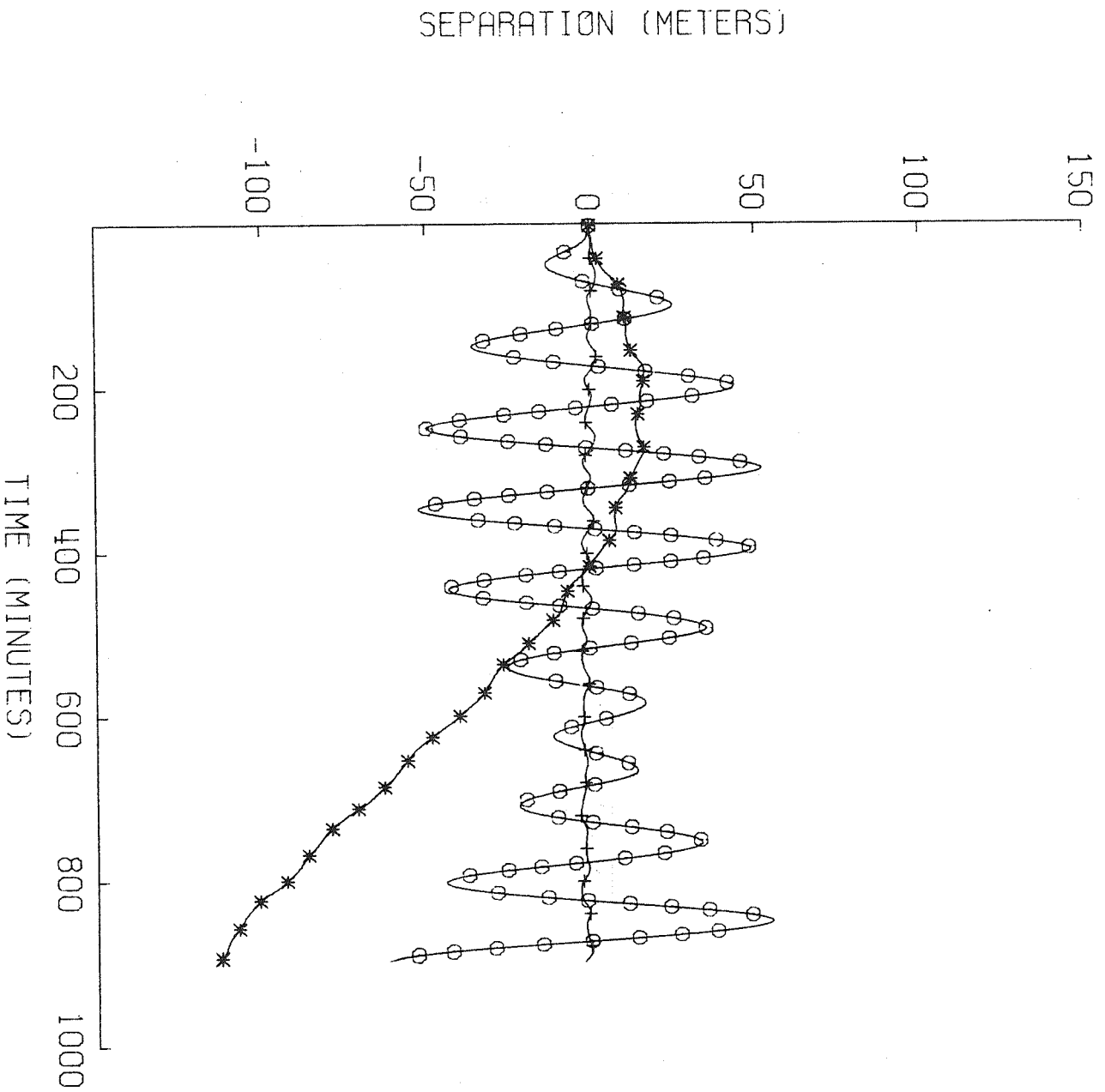
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E R
 0.0000 0.0000 0.0000 45.00000 .00500000 7135.6535

RUN FOR C(4 , 1) = -.5289
 FACTOR USED IS 1.000000

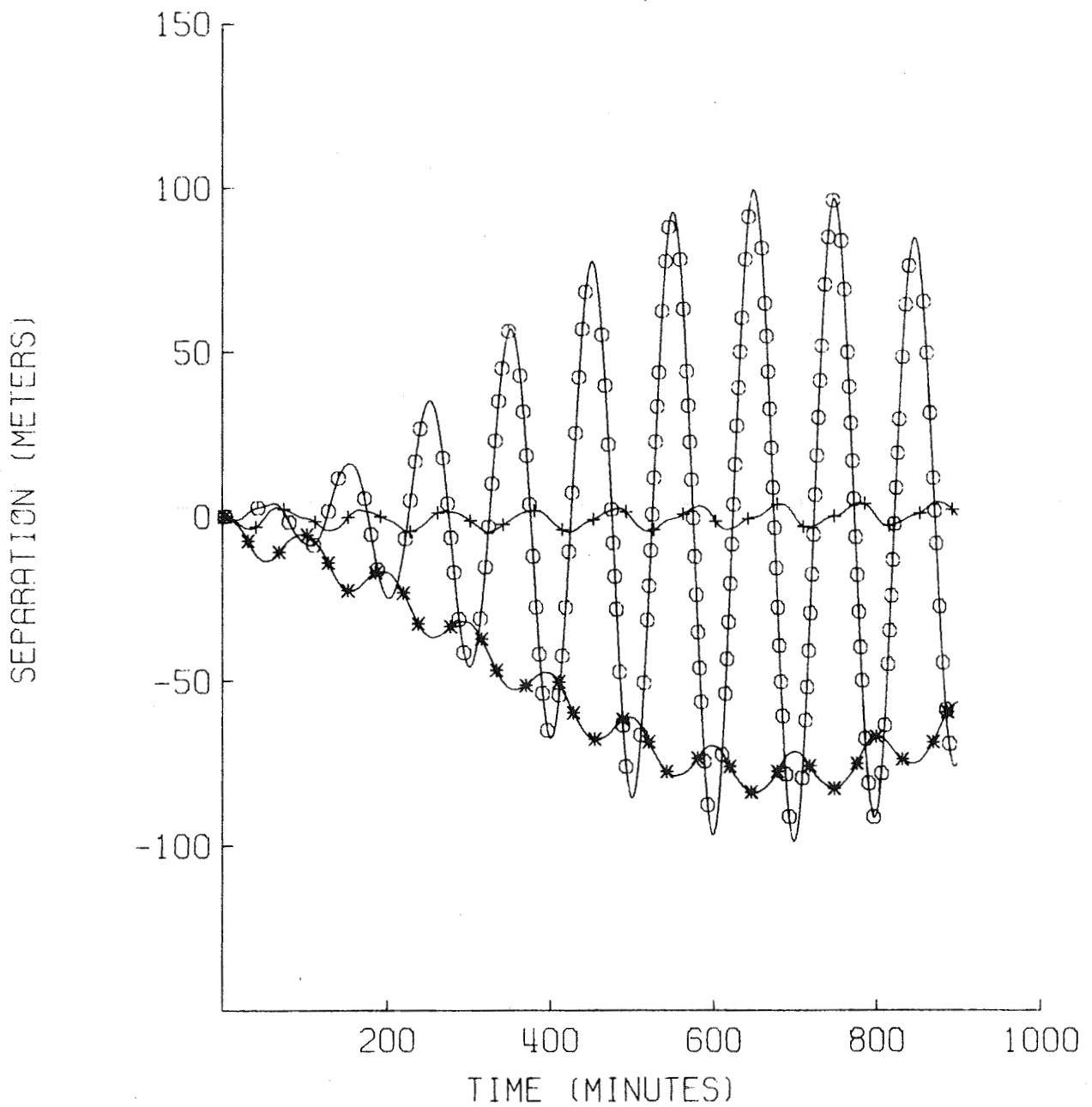
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(4 , 1) = -.4290
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

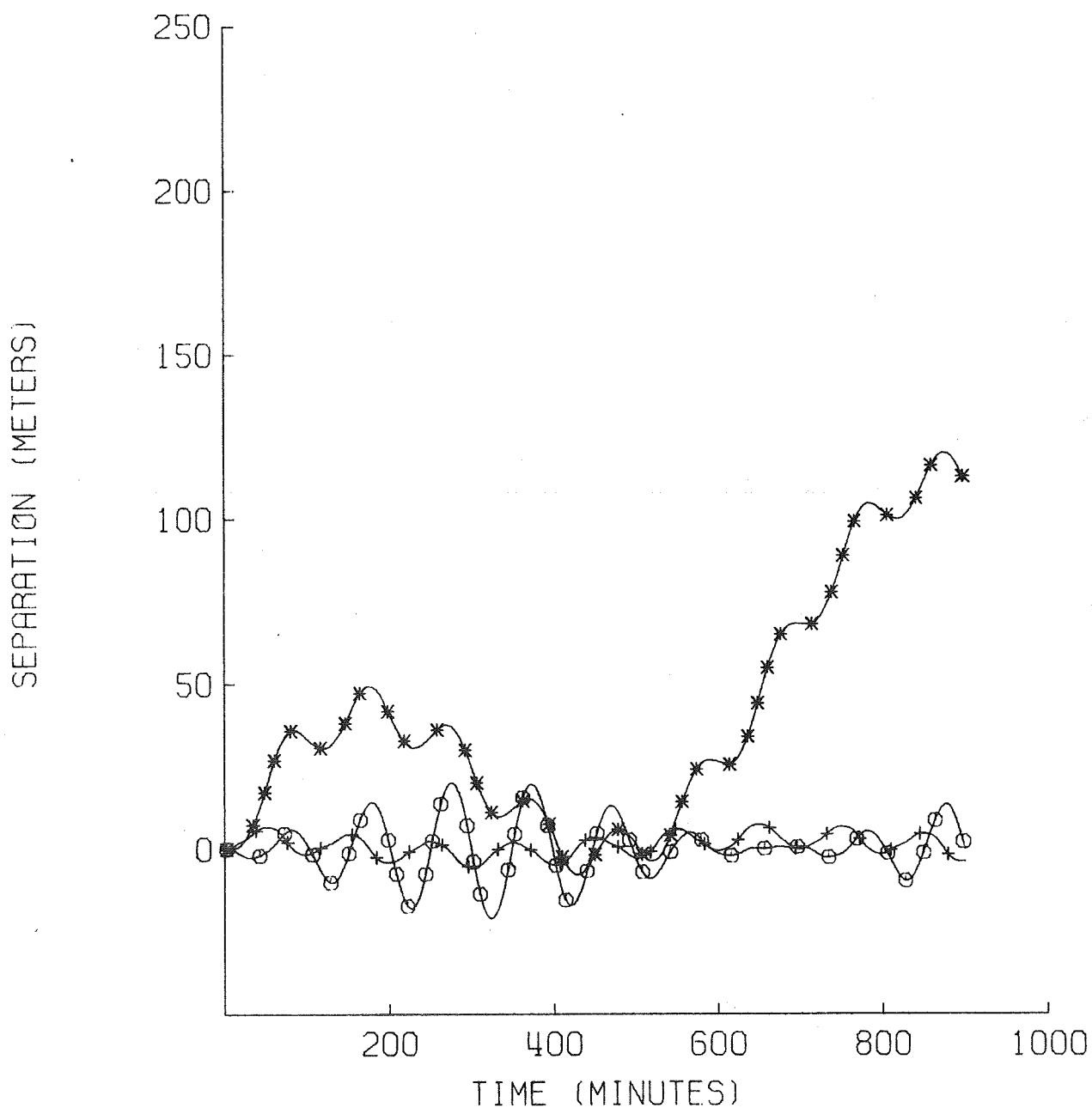
RUN FOR C(4 , 2) = .1966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

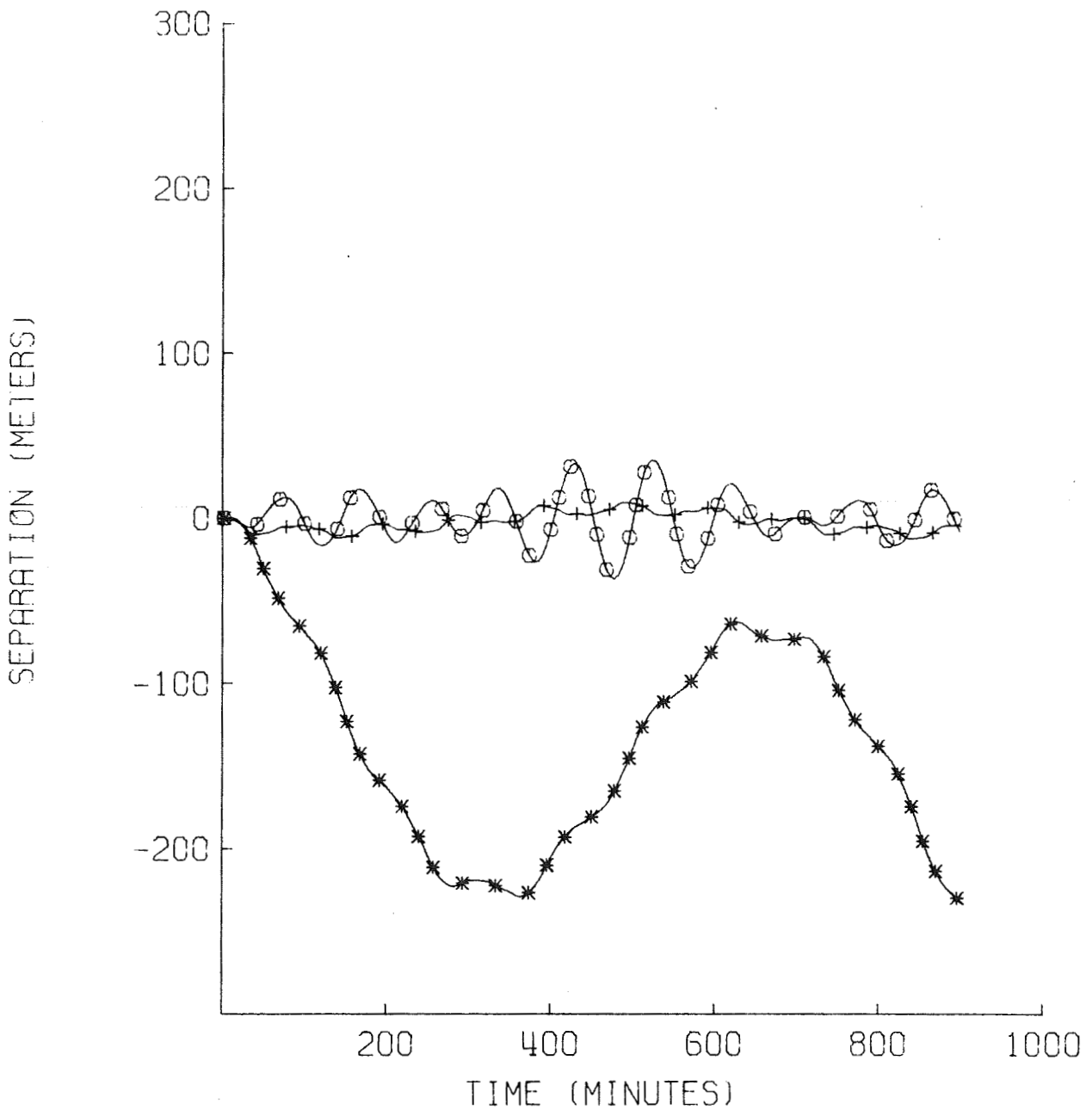
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(4 , 2) = .5120
 FACTOR USED IS 1.000000

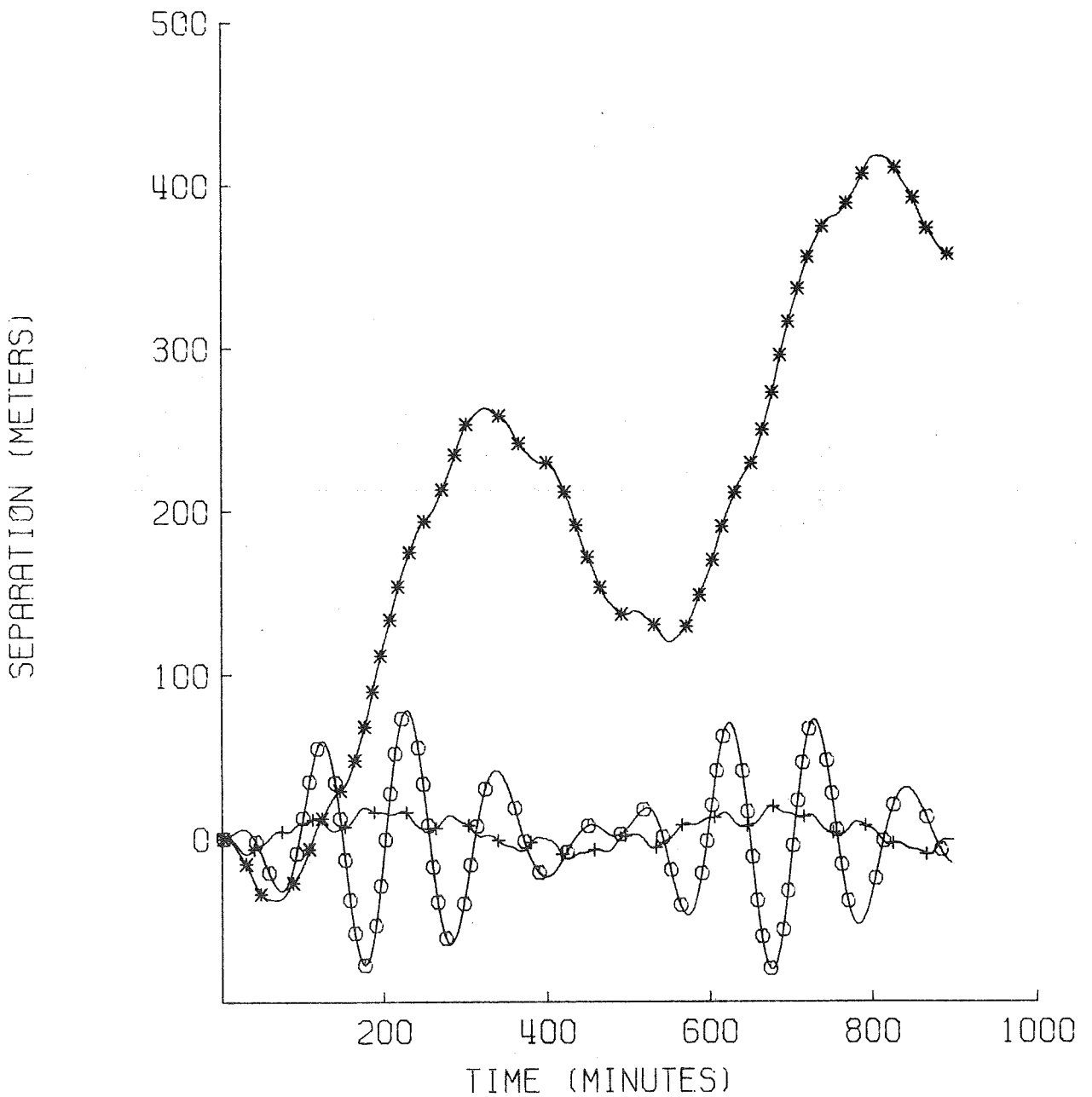
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 3) = .8804
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

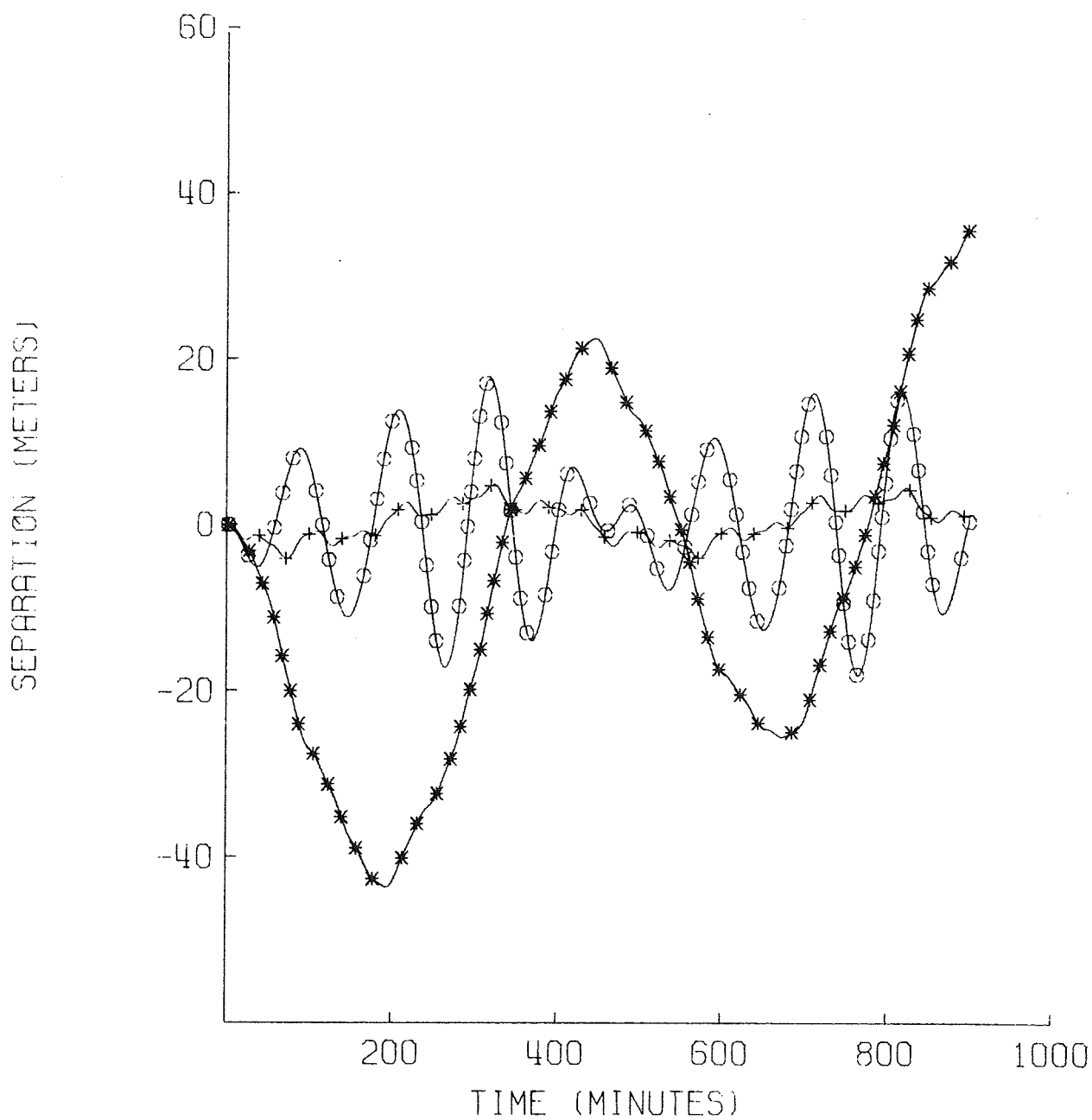


M	OMEGA	C OMEGA	I	E	A
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RUN FOR S(4 ,3) = -.2317

FACTOR USED IS 1.000000

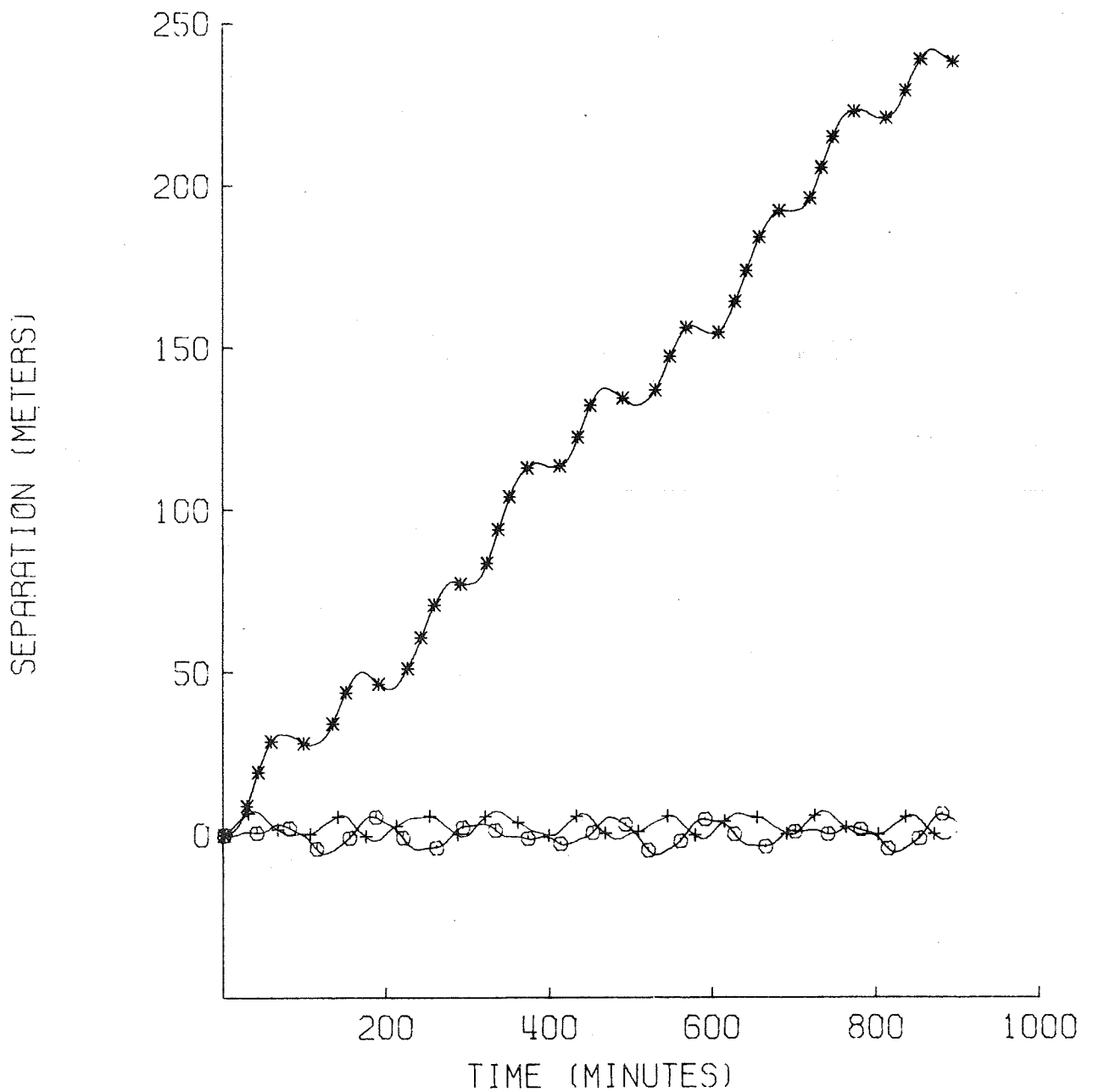
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 4) = .1861
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

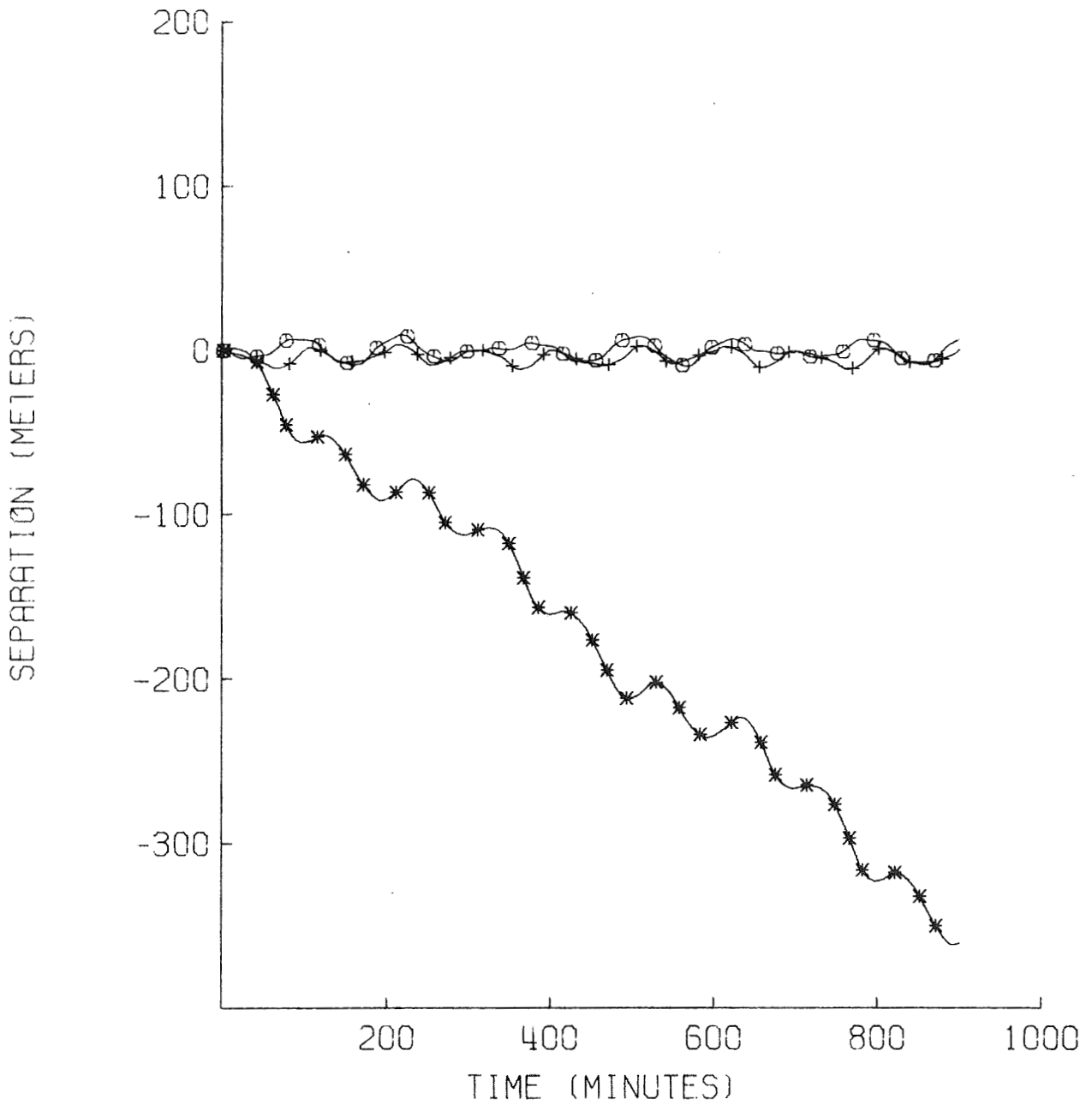
RUN FOR S(4 , 4) = .3065

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

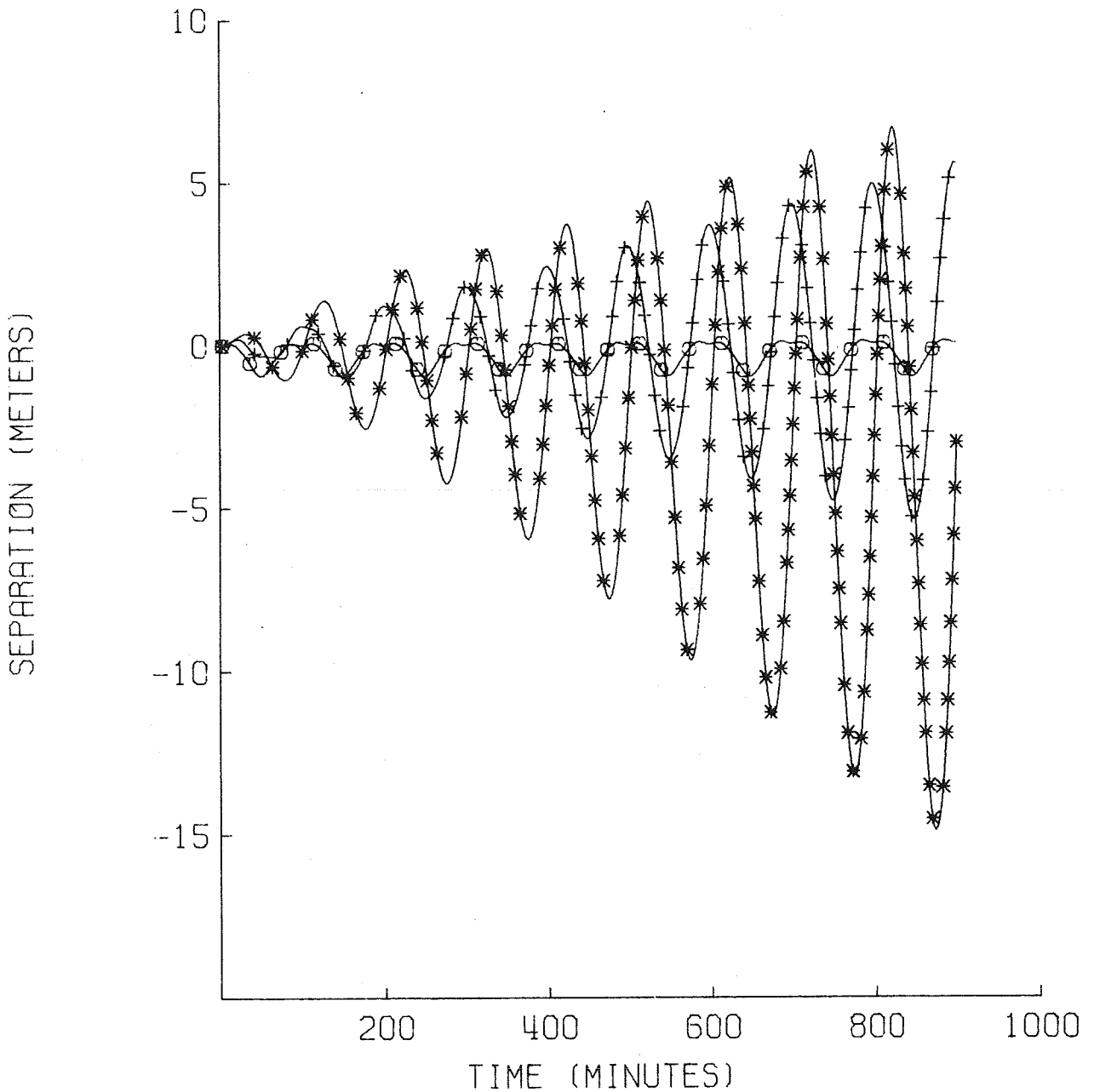
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
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RUN FOR C(5 , 0) = .0296
 FACTOR USED IS 1.000000

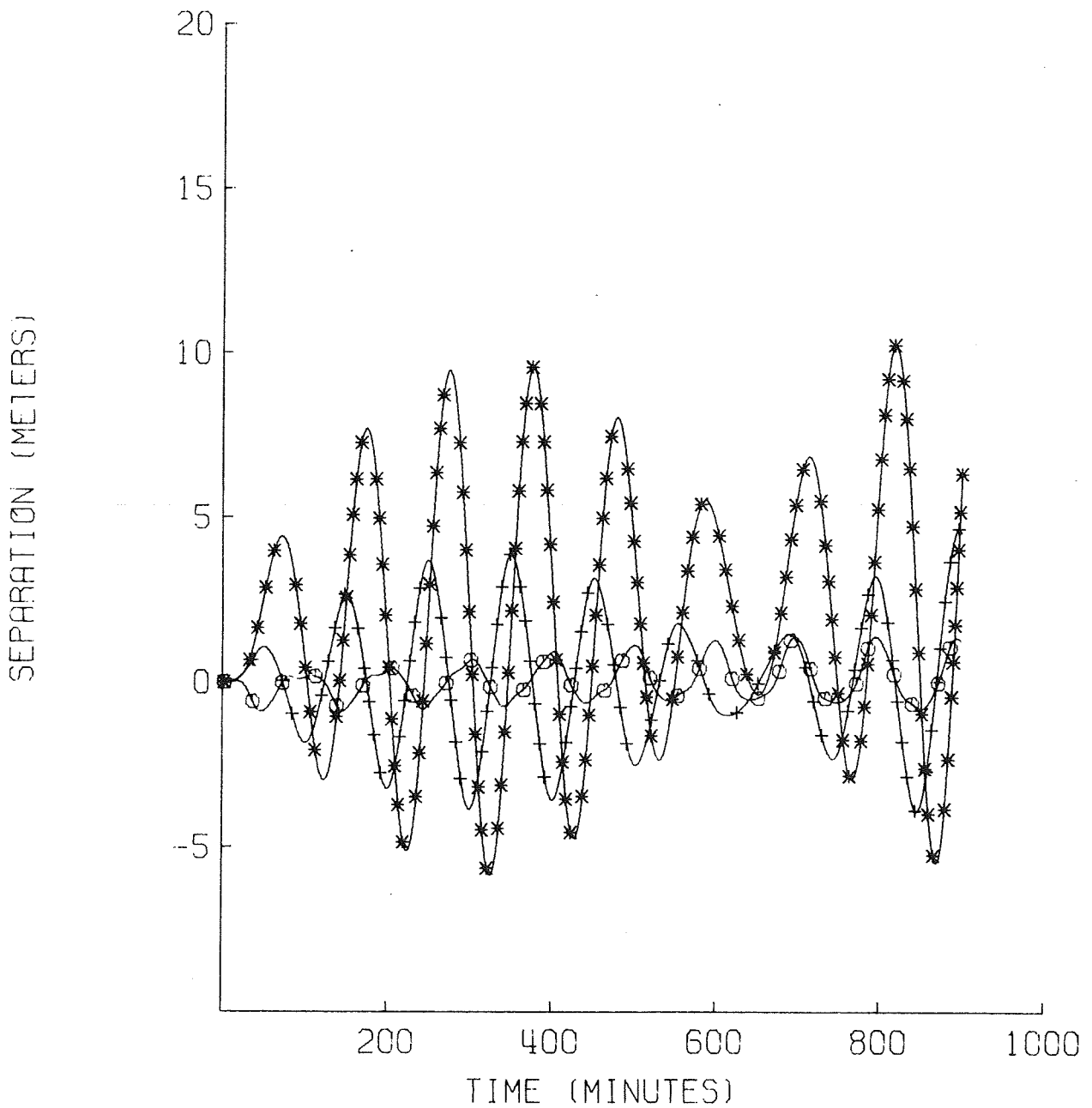
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(5 , 1) = -.0670
 FACTOR USED IS 1.000000

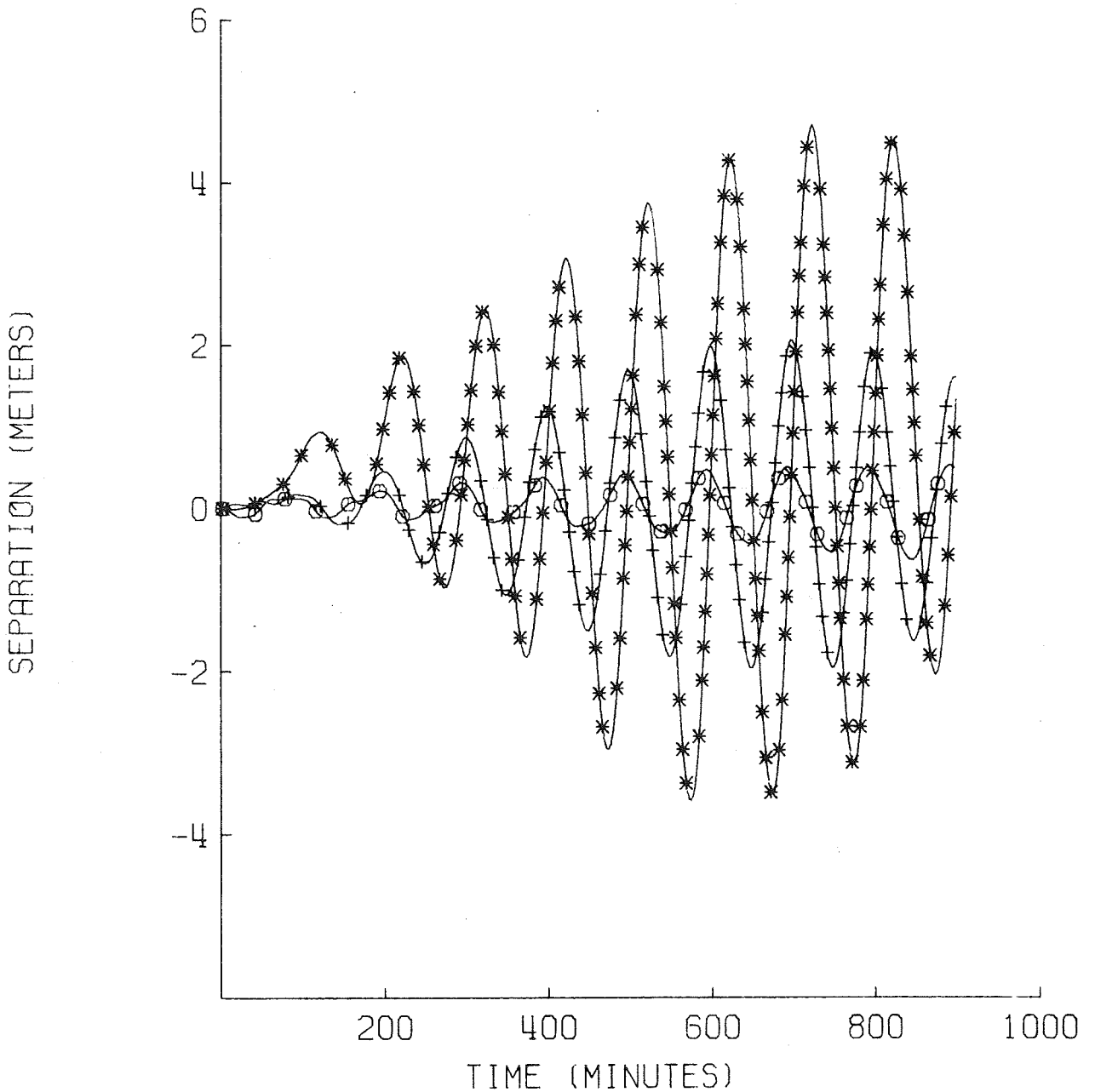
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(5 , 1) = -.0161
FACTOR USED IS 1.000000

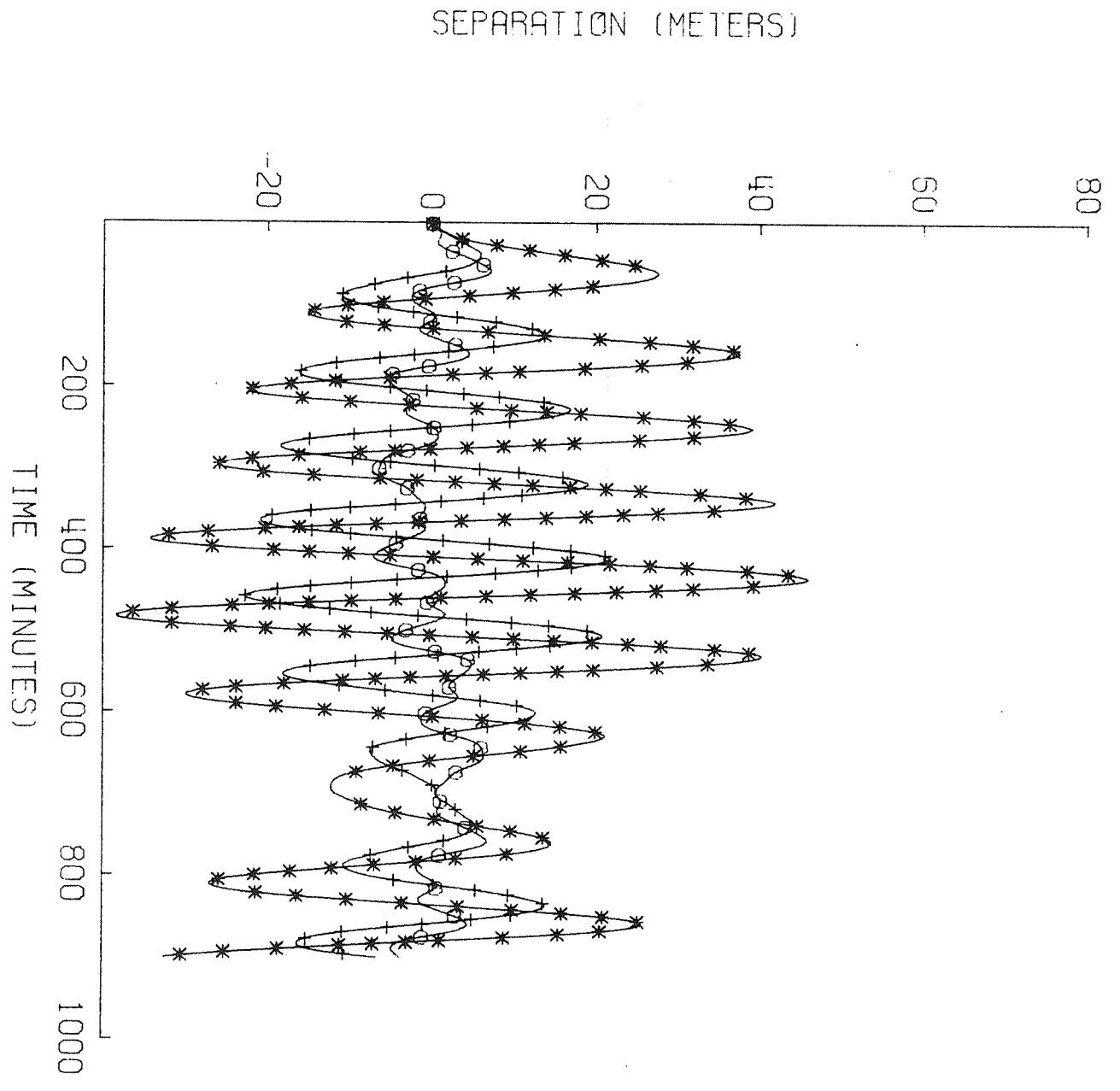
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E R
 0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(5 , 2) = .3934
 FACTOR USED IS 1.000000

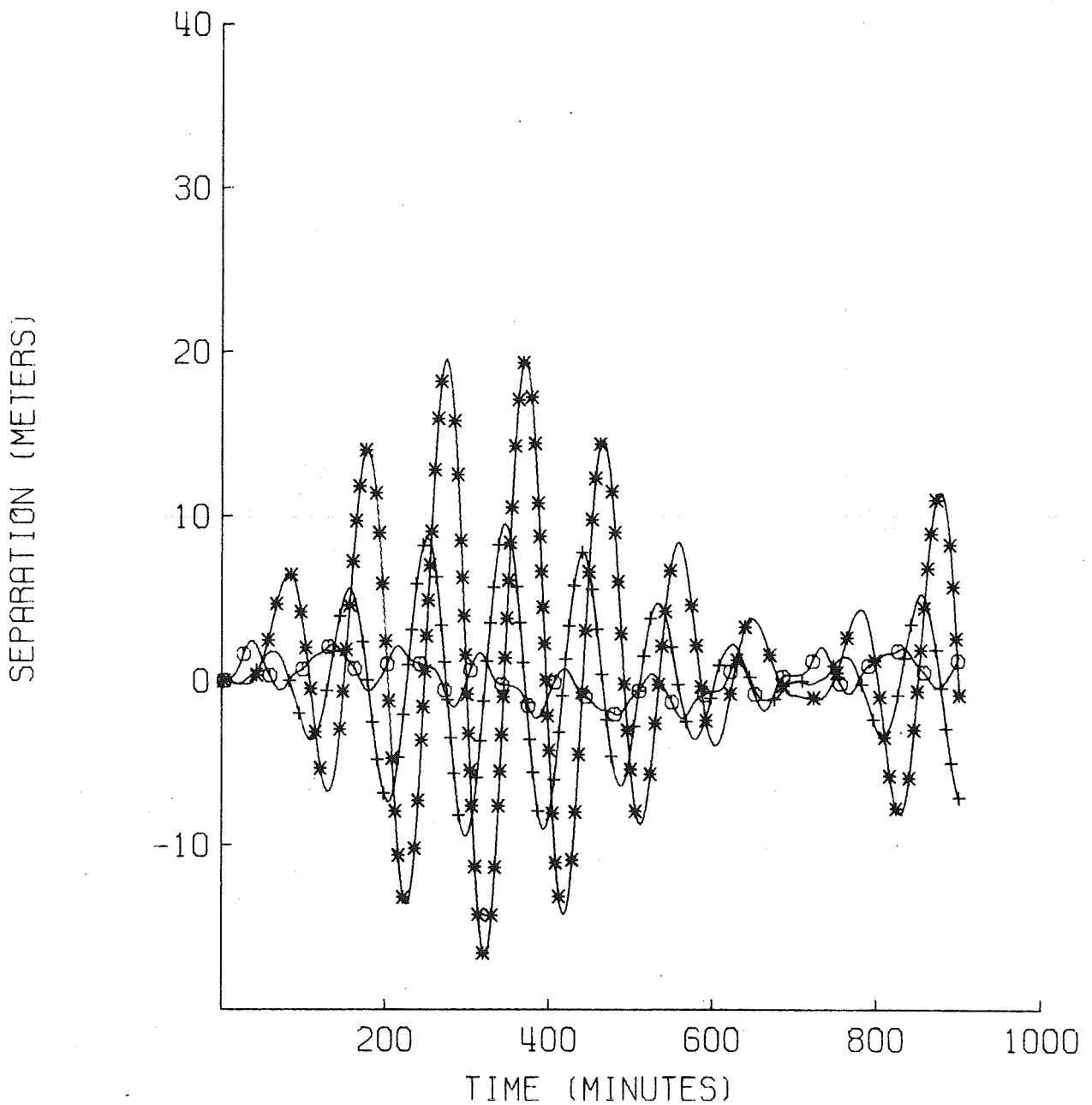
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
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RUN FOR S(5 , 2) = -.1339
 FACTOR USED IS 1.000000

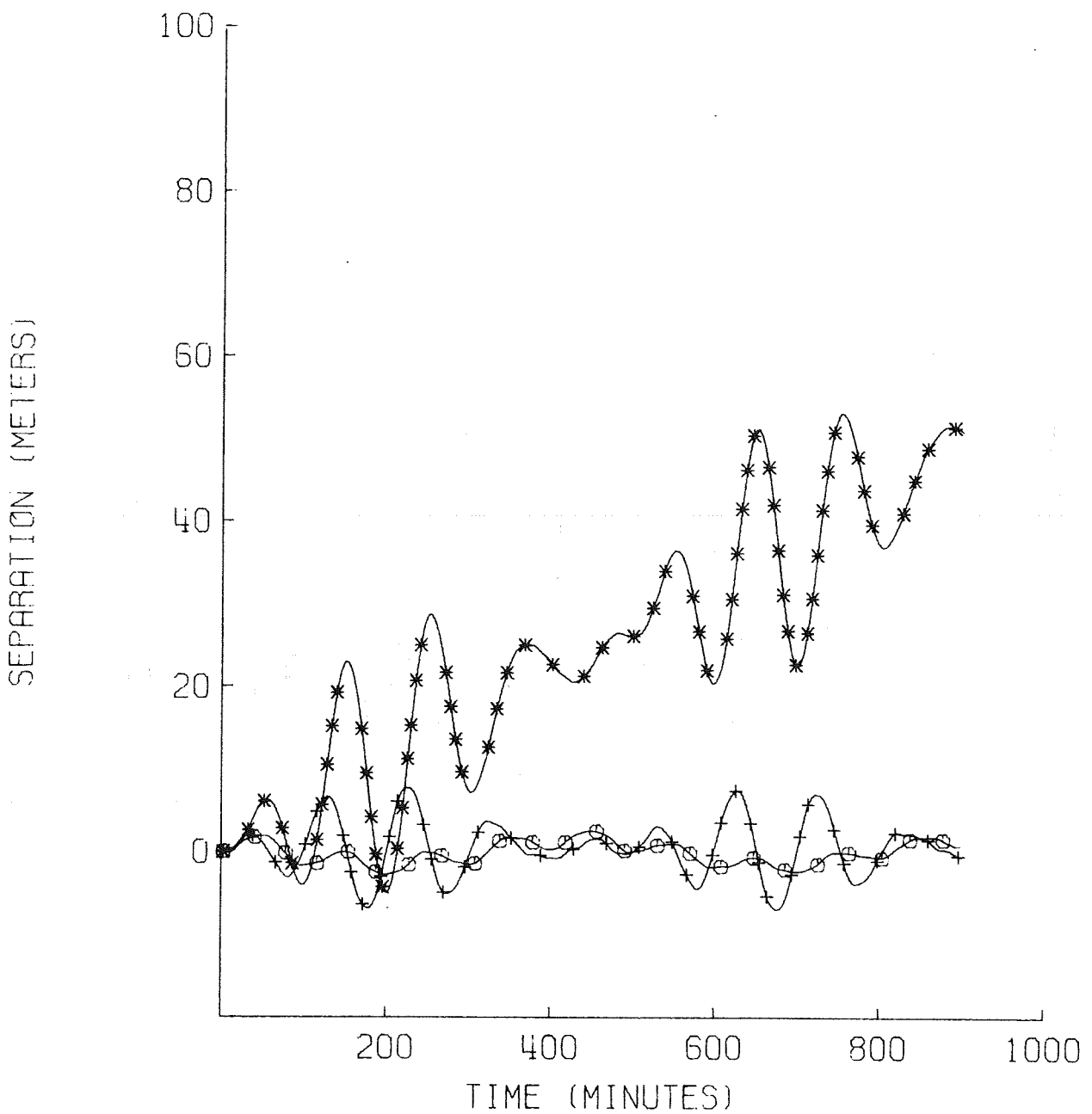
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(5 , 3) = -.1203
 FACTOR USED IS 1.000000

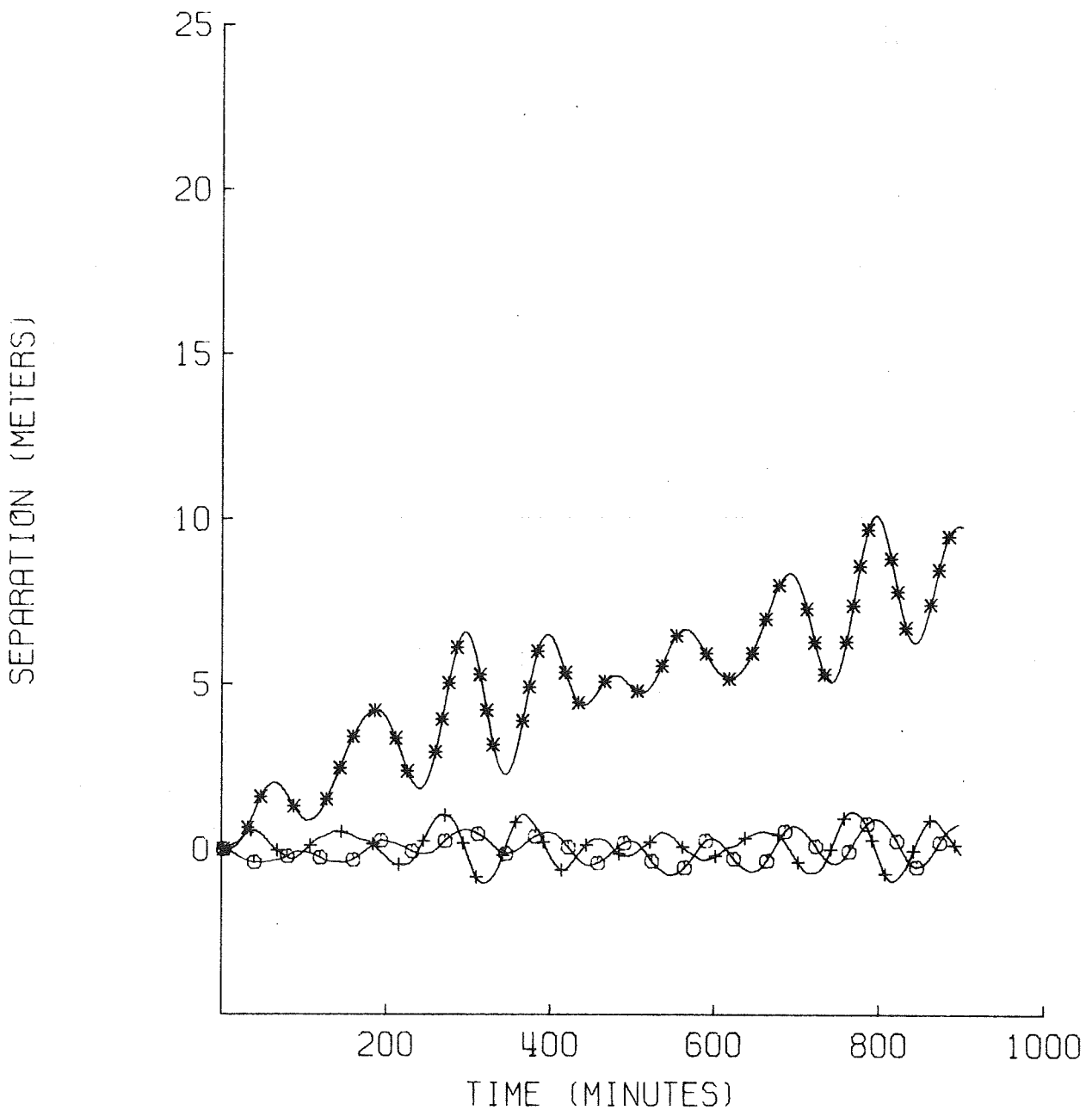
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(5 , 3) = -.0209
 FACTOR USED IS 1.000000

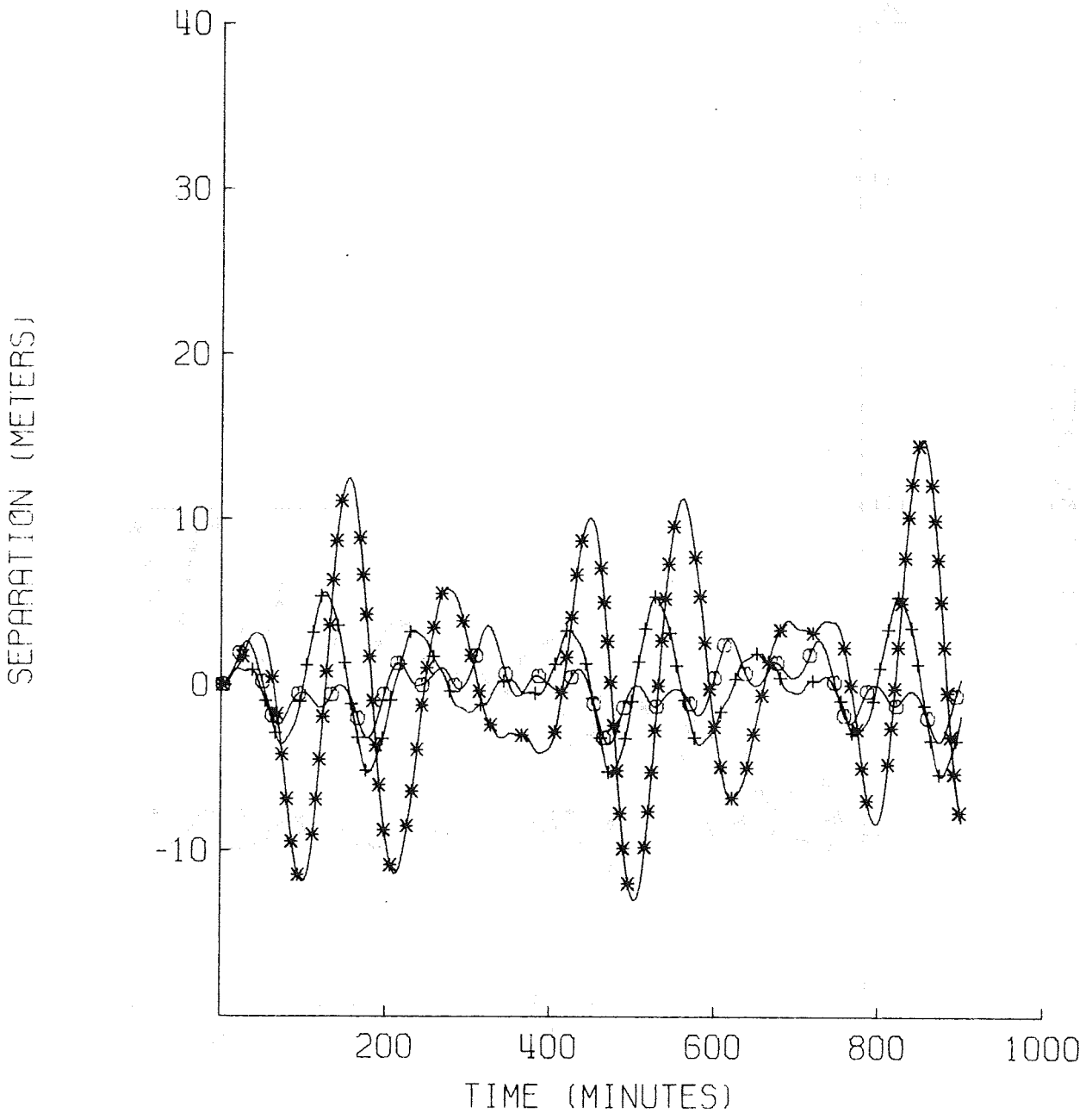
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .0050000 7136.6535

RUN FOR C(5 , 4) = .1371
FACTOR USED IS 1.000000

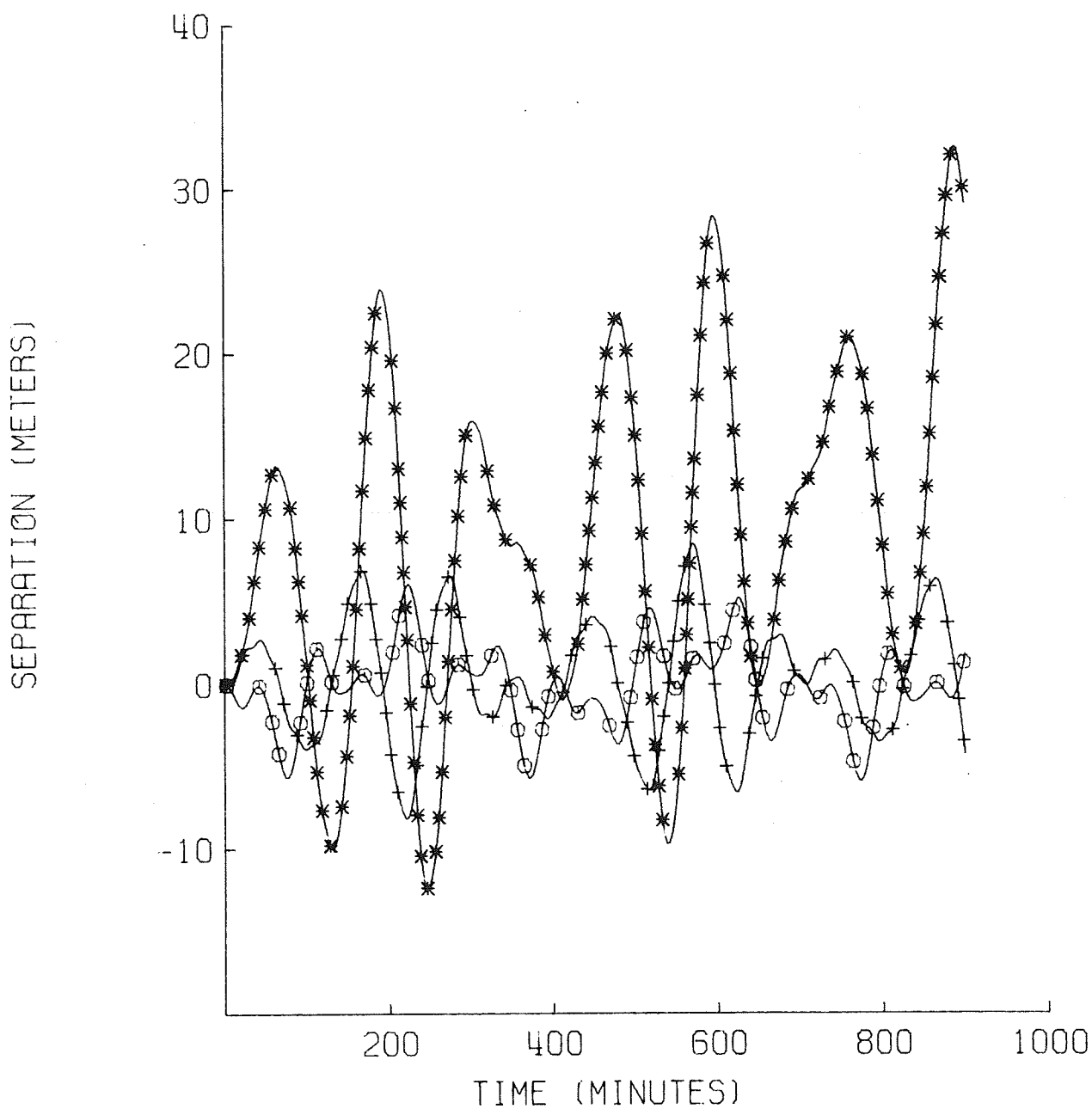
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
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RUN FOR S(5 ,4) = .2119
 FACTOR USED IS 1.000000

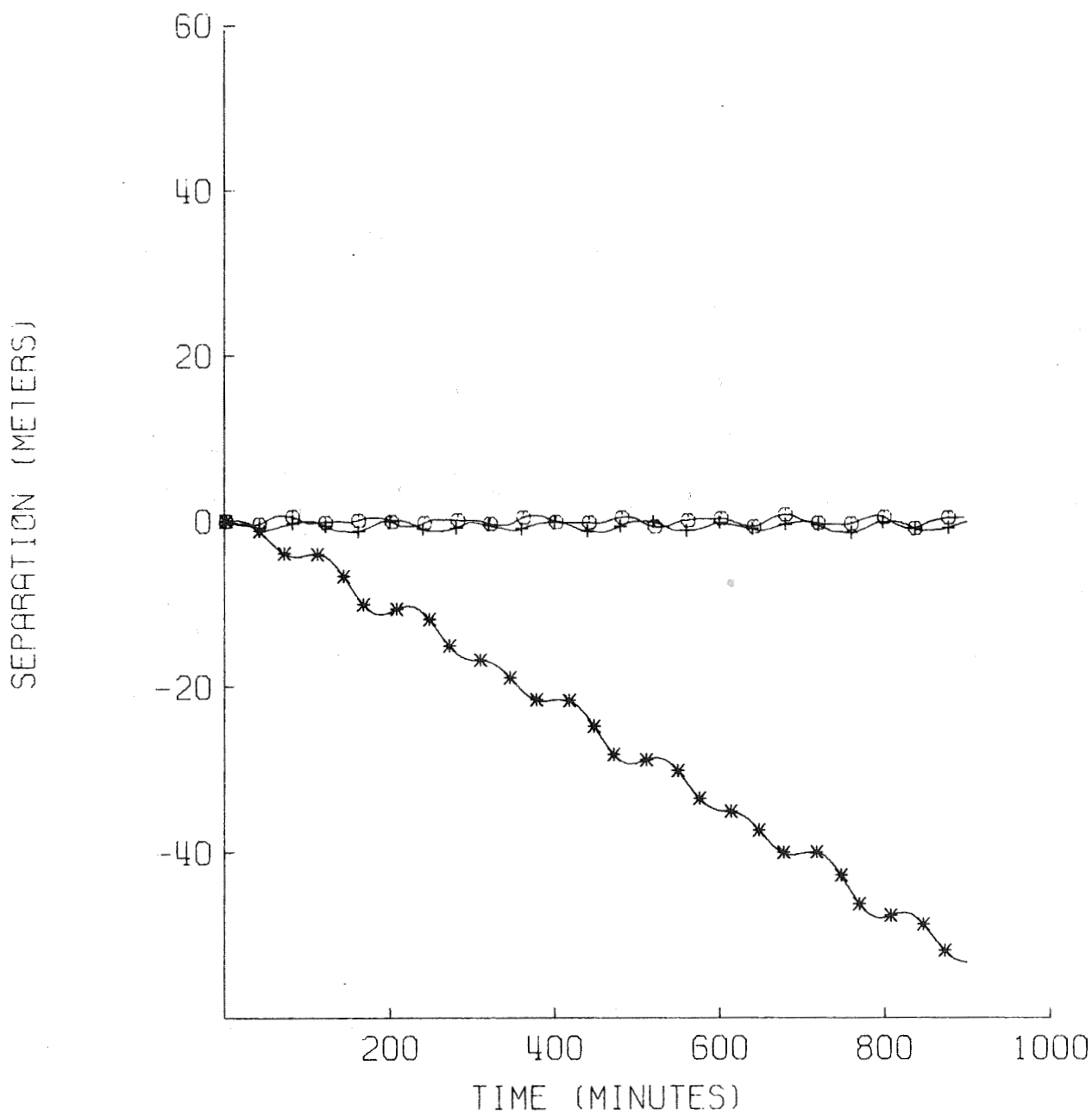
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 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(5 , 5) = .0317
 FACTOR USED IS 1.000000

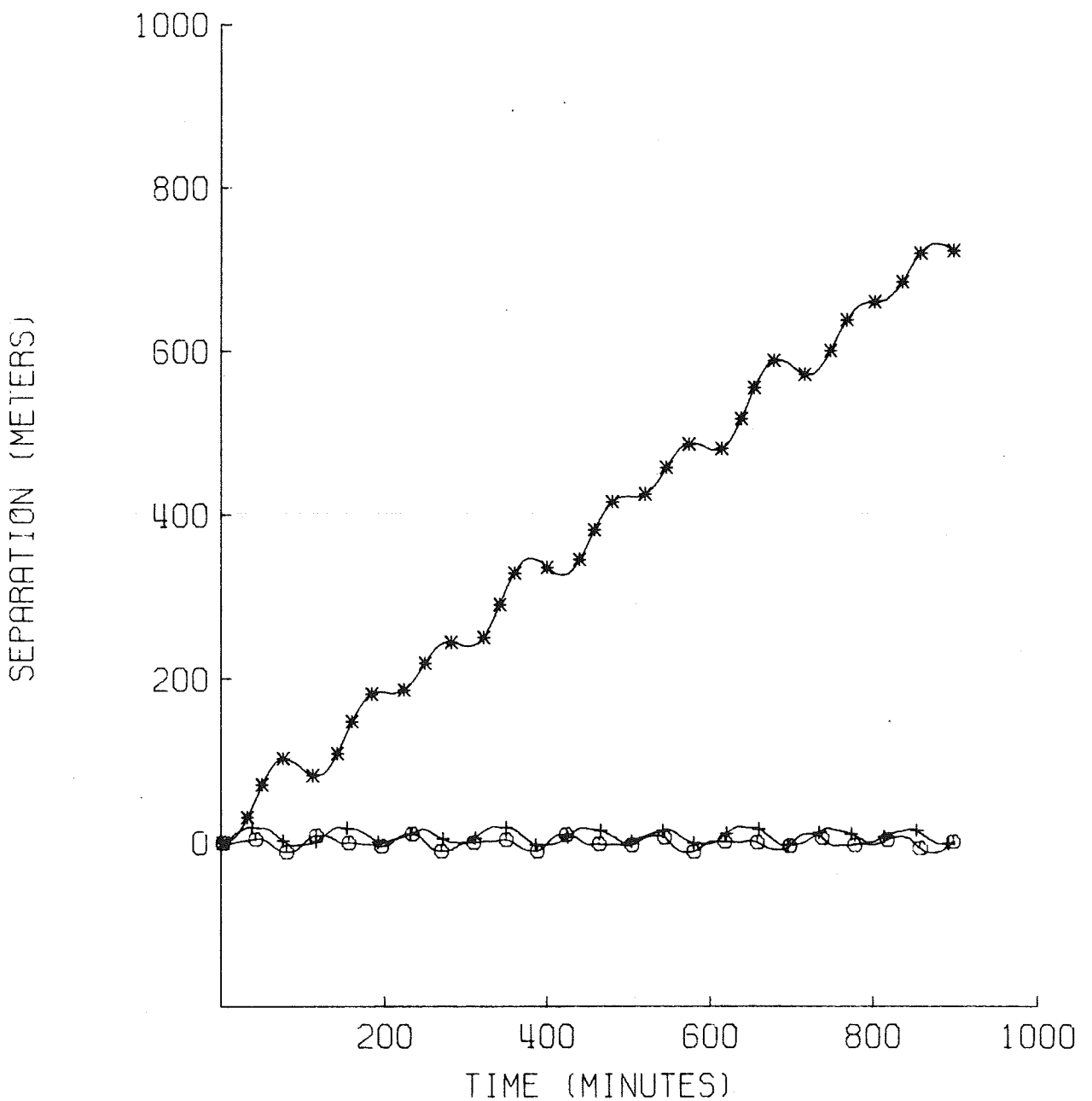
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 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(5 , 5) = -.5727
 FACTOR USED IS 1.000000

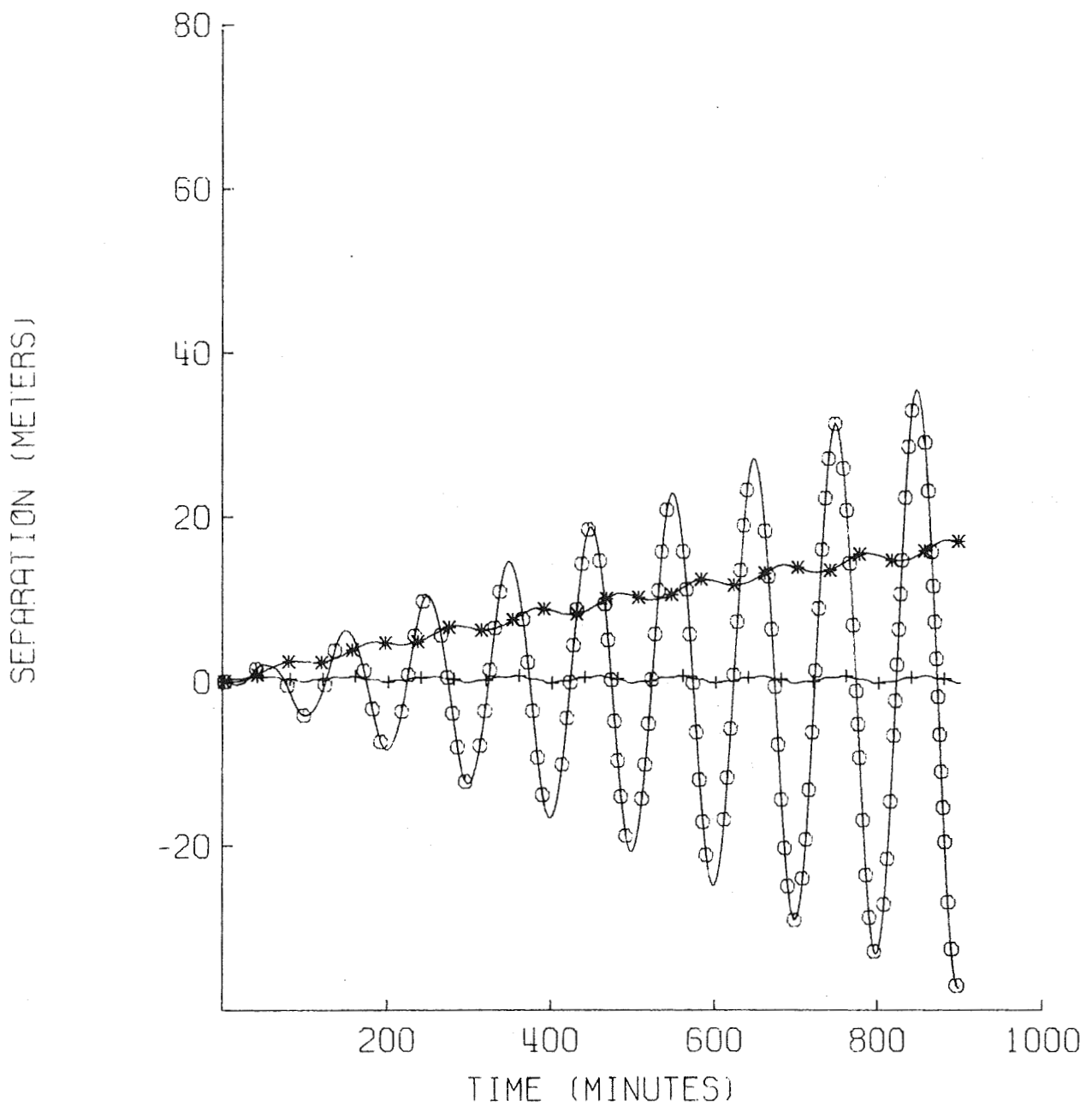
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 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 , 0) = -.0703
 FACTOR USED IS 1.000000

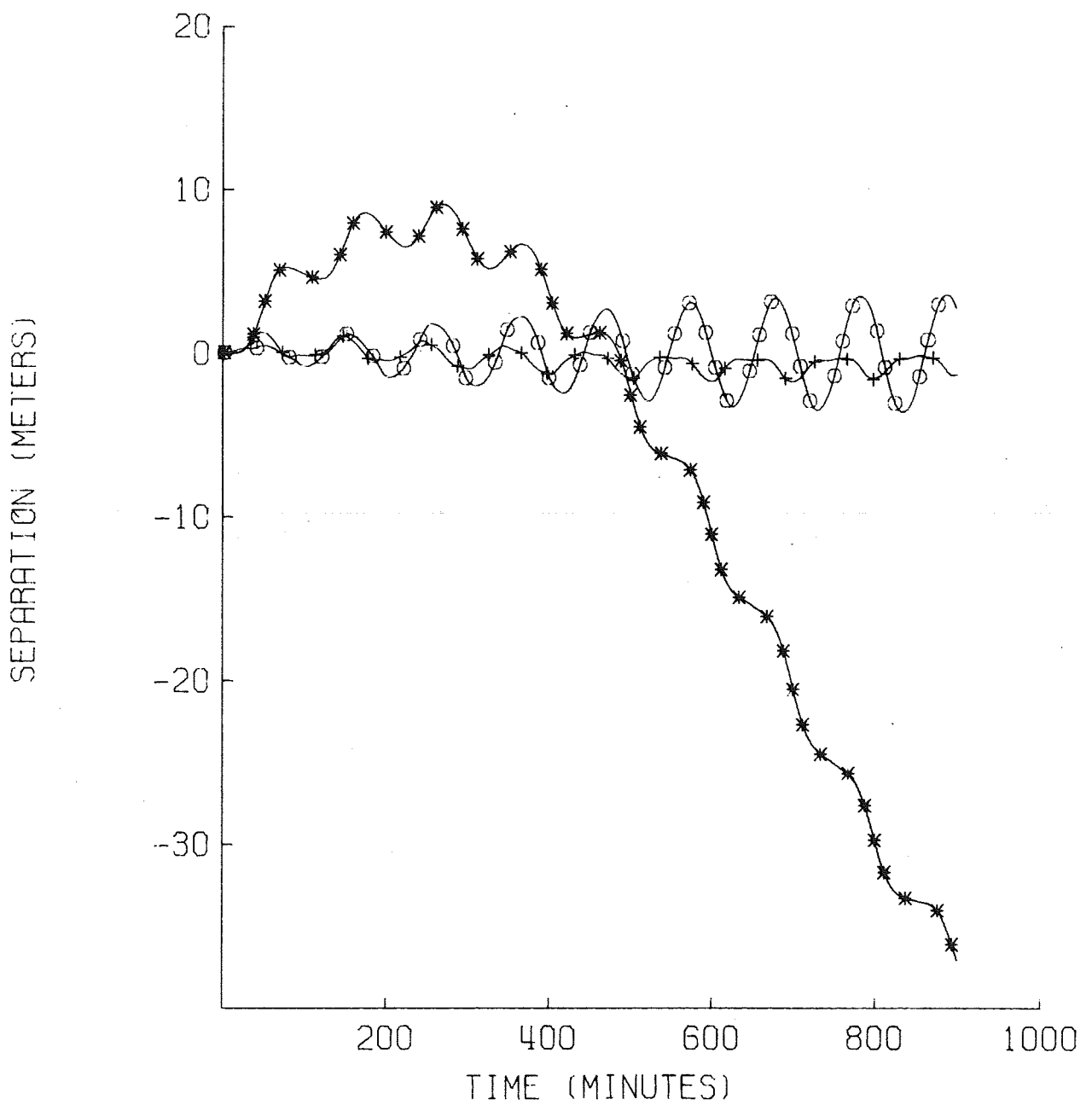
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 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 , 1) = -.0834
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

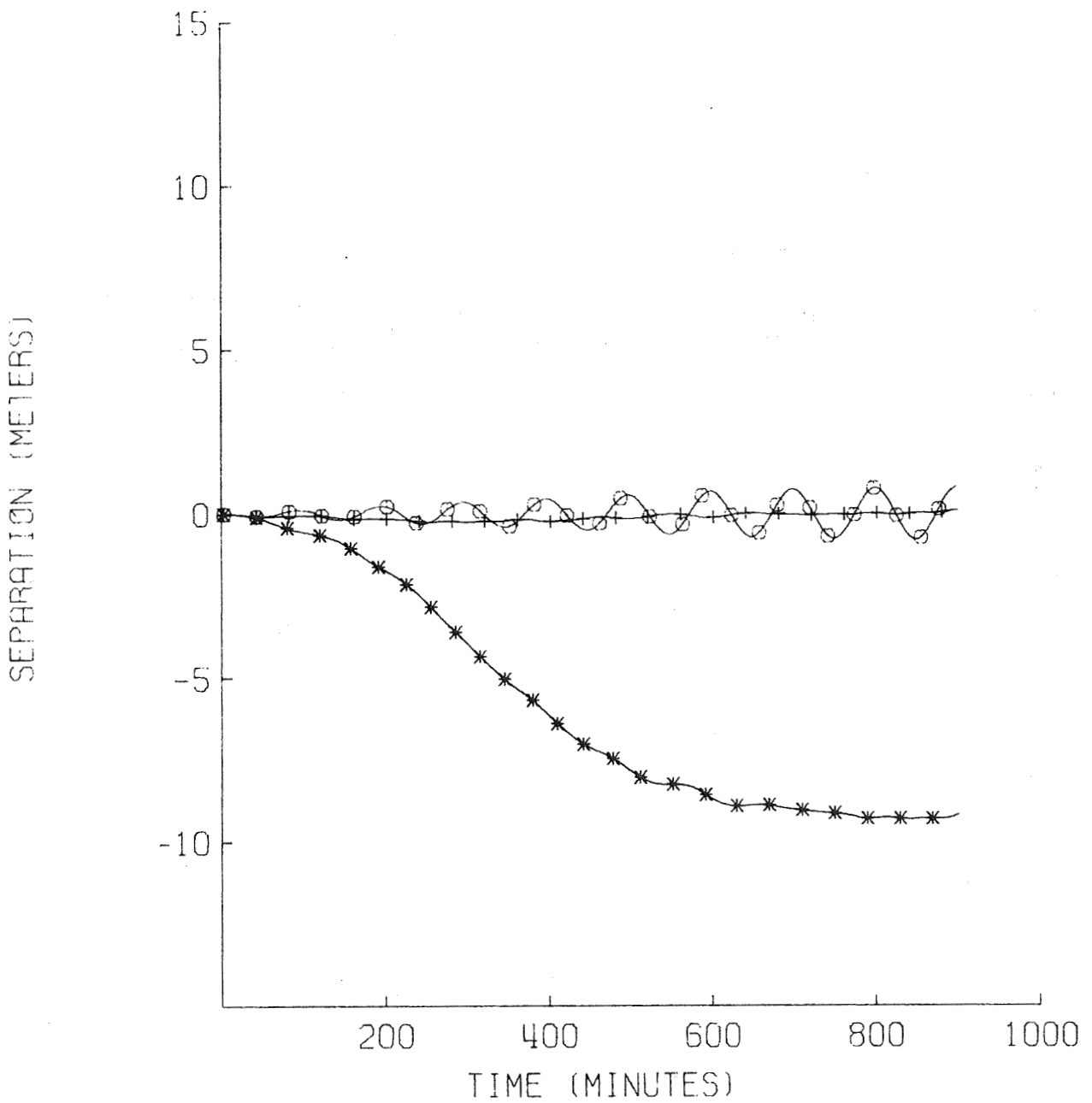
RUN FOR S(6 , 1) = -.0062

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

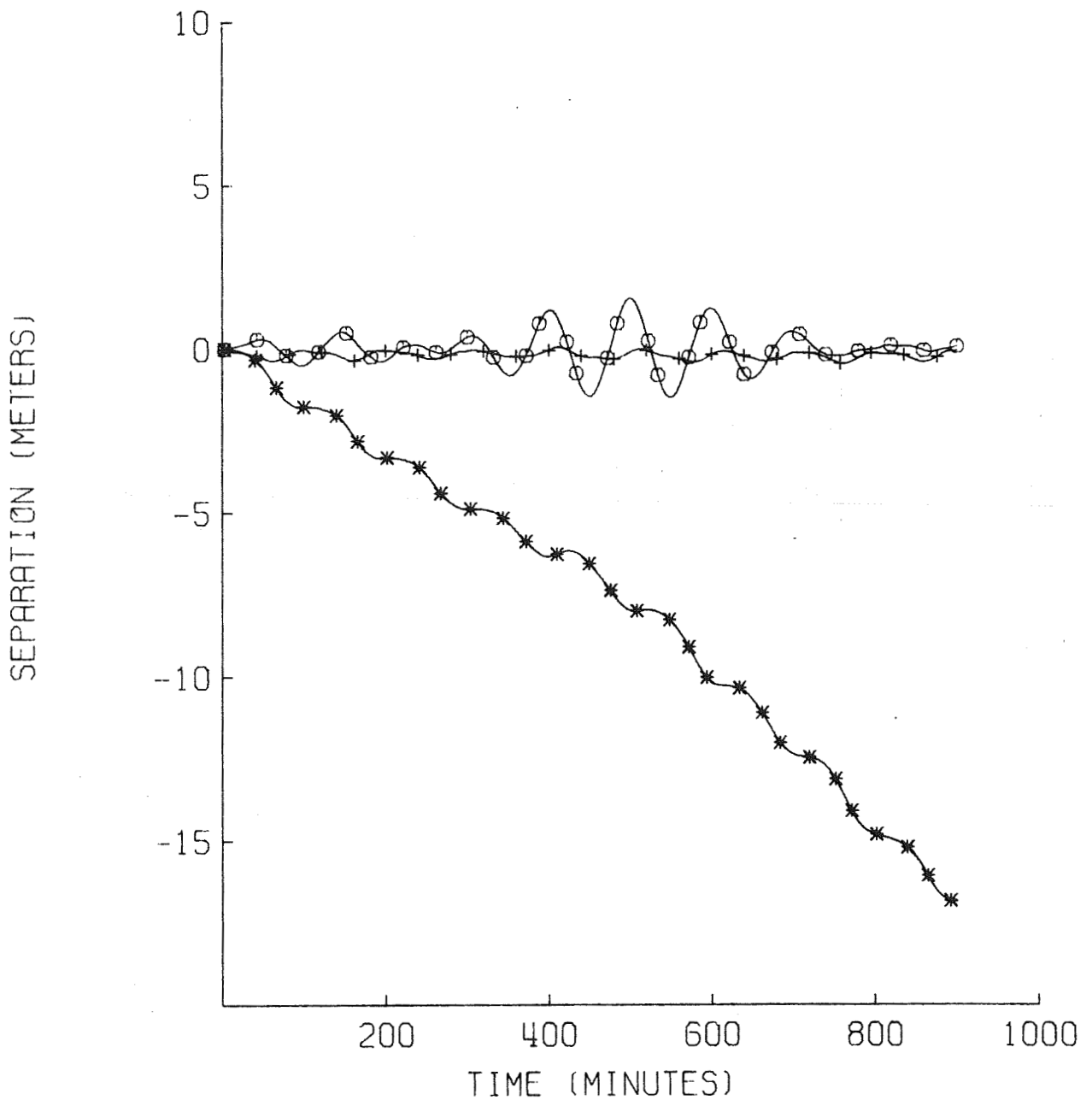
RUN FOR C(6 ,2) = .0153

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

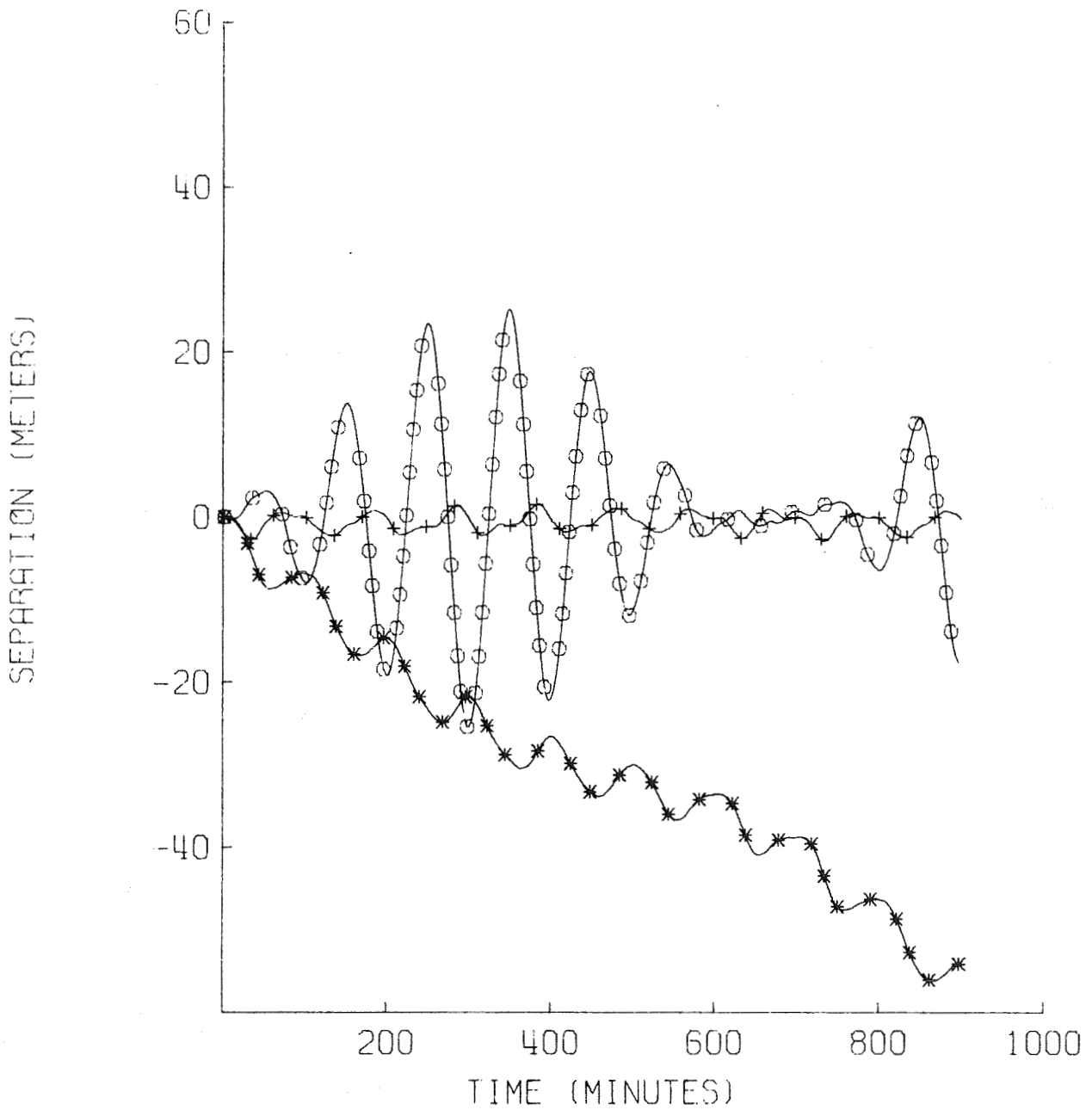
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
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RUN FOR S(6 , 2) = -.2185
 FACTOR USED IS 1.000000

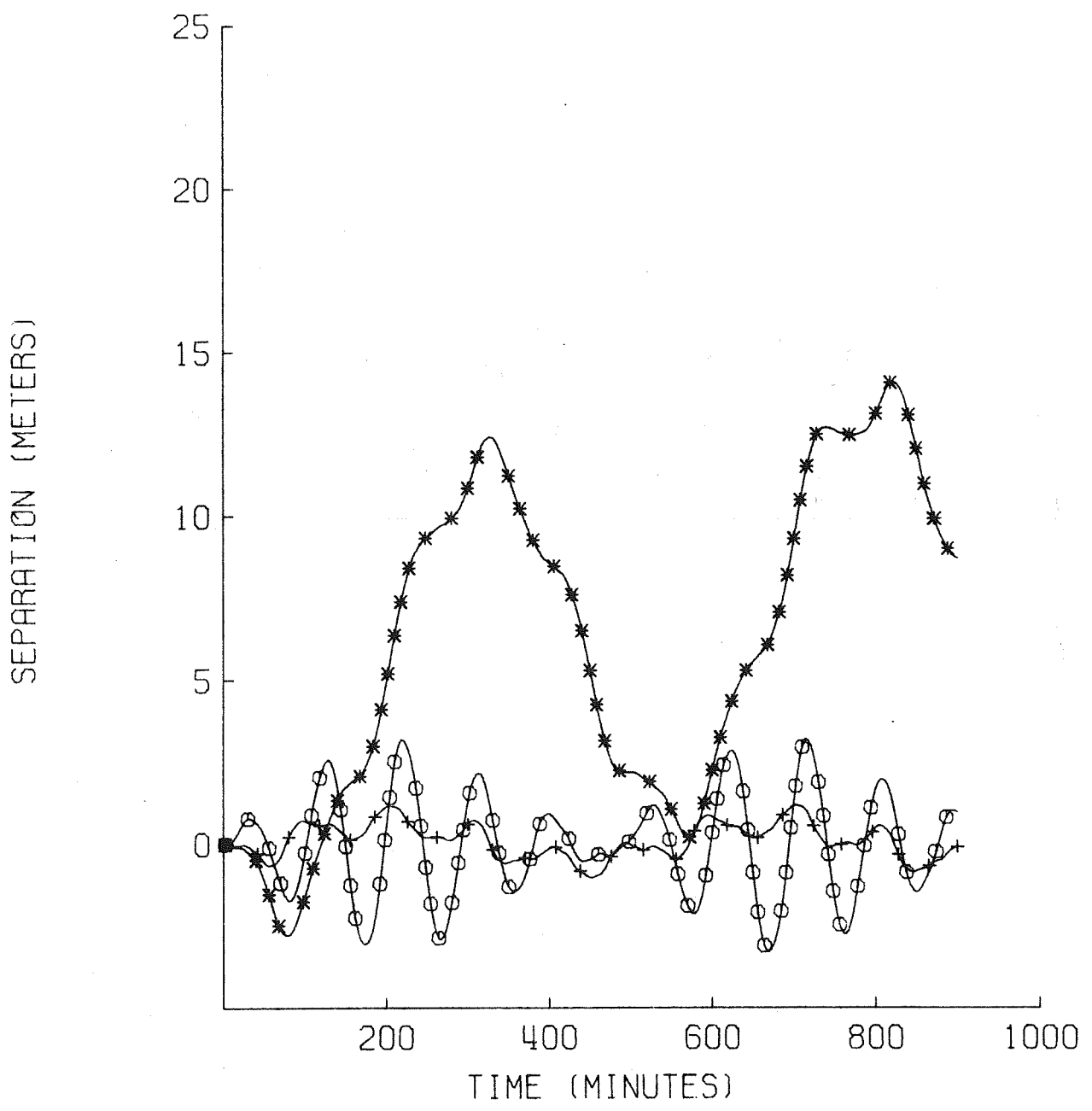
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 ,3) = -.0486
 FACTOR USED IS 1.000000

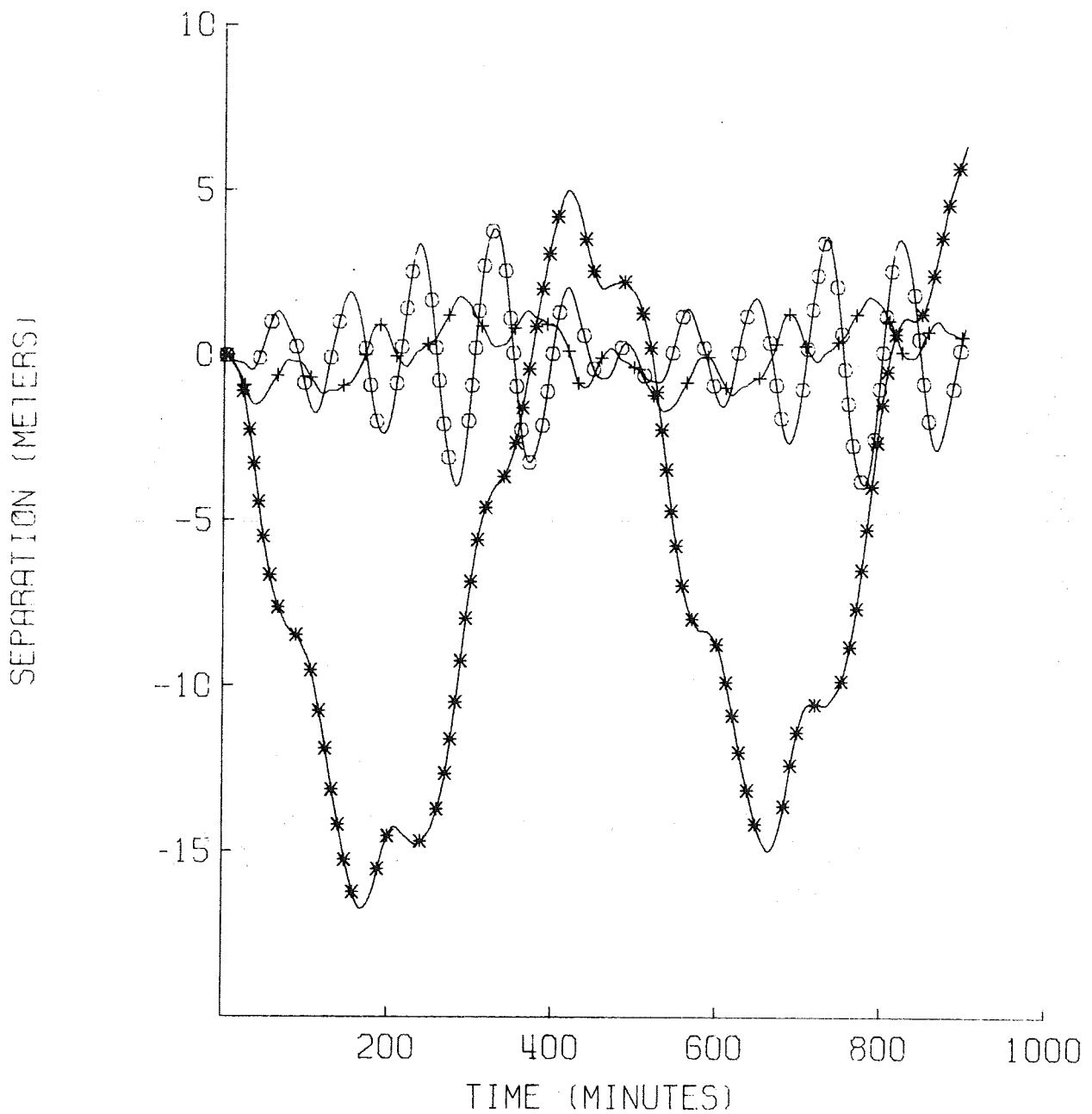
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(6 ,3) = .0774
FACTOR USED IS 1.000000

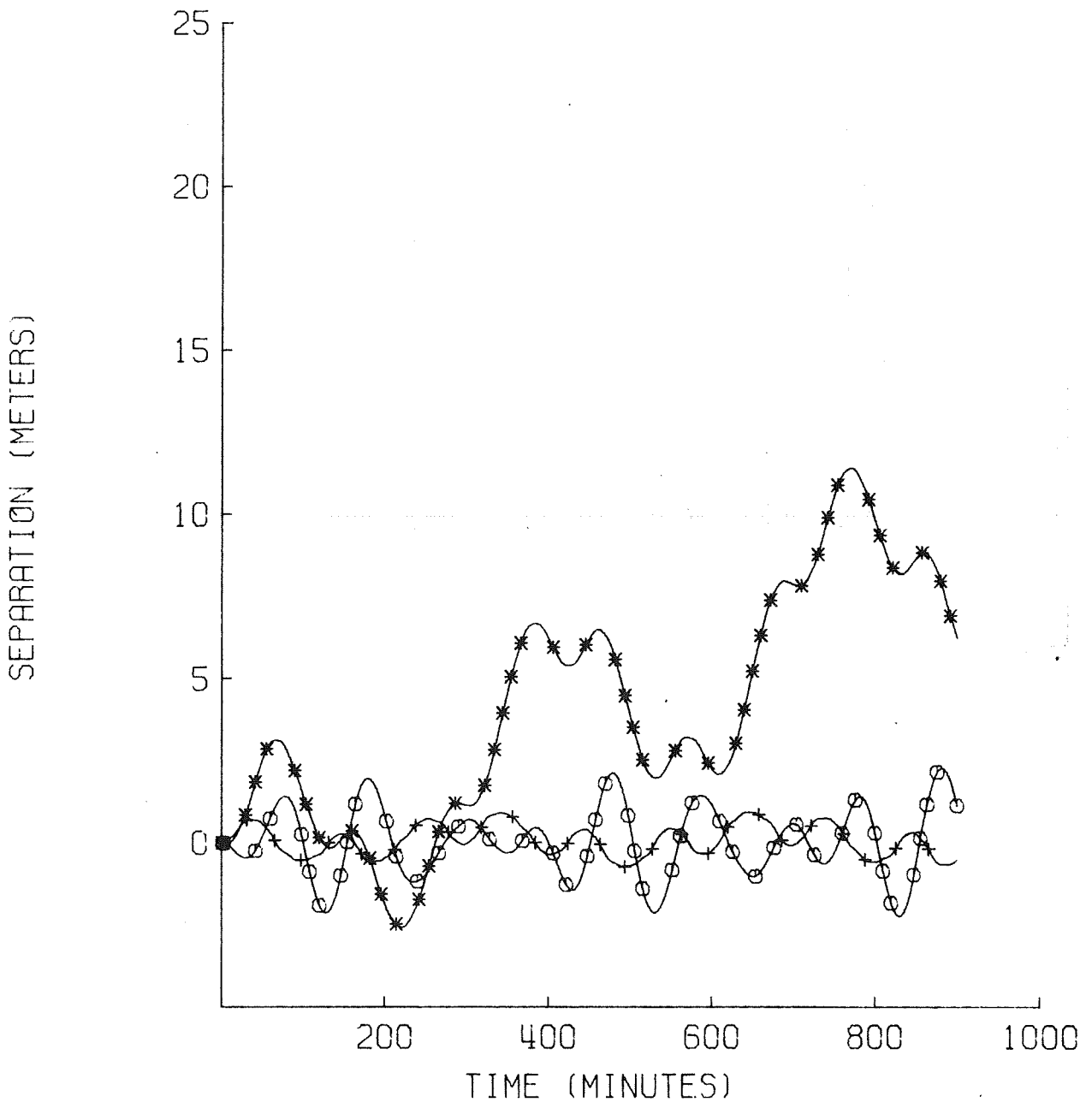
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 ,4) = -.0300
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

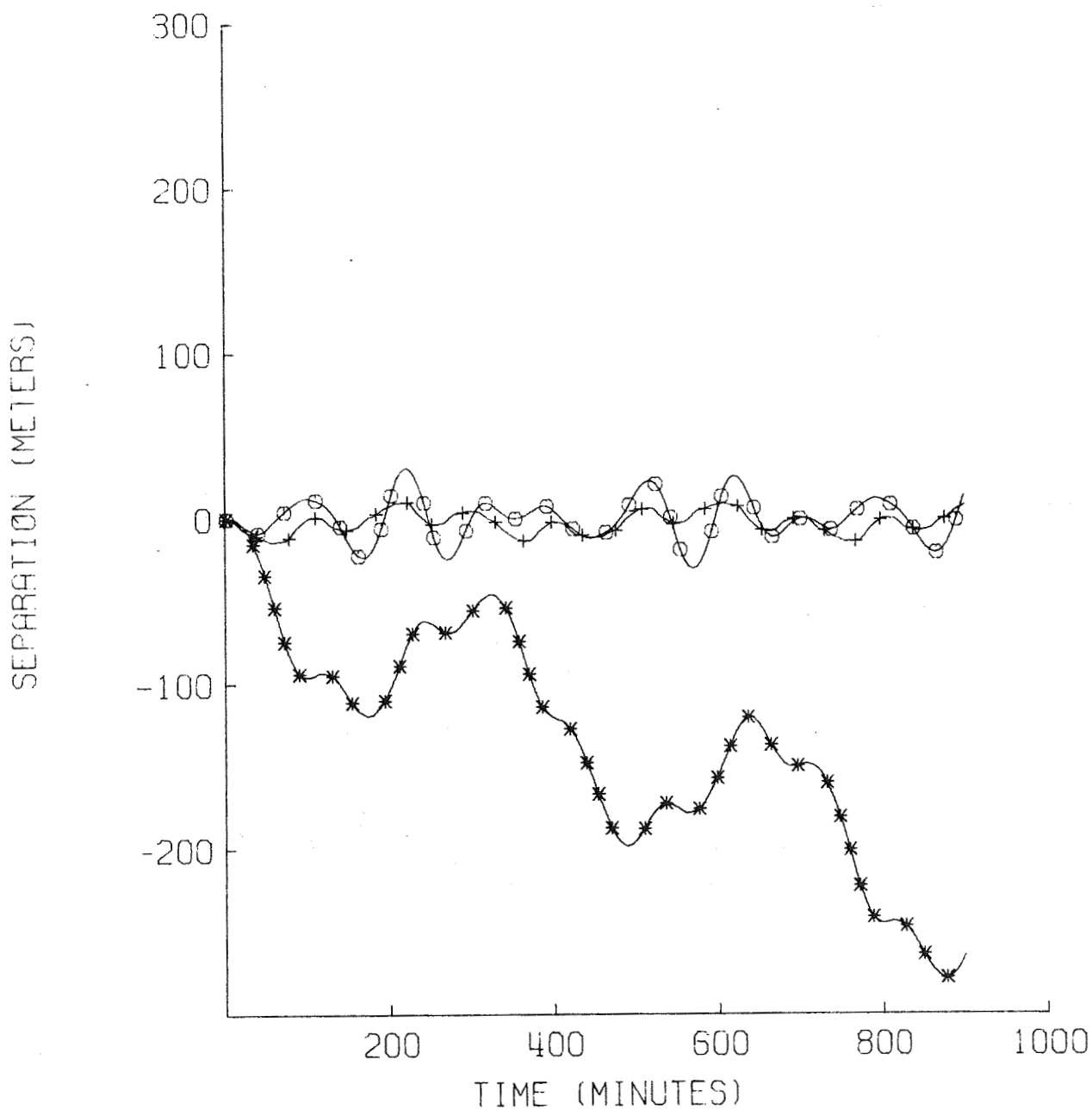


M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(6 , 4) = -.4660

FACTOR USED IS 1.000000

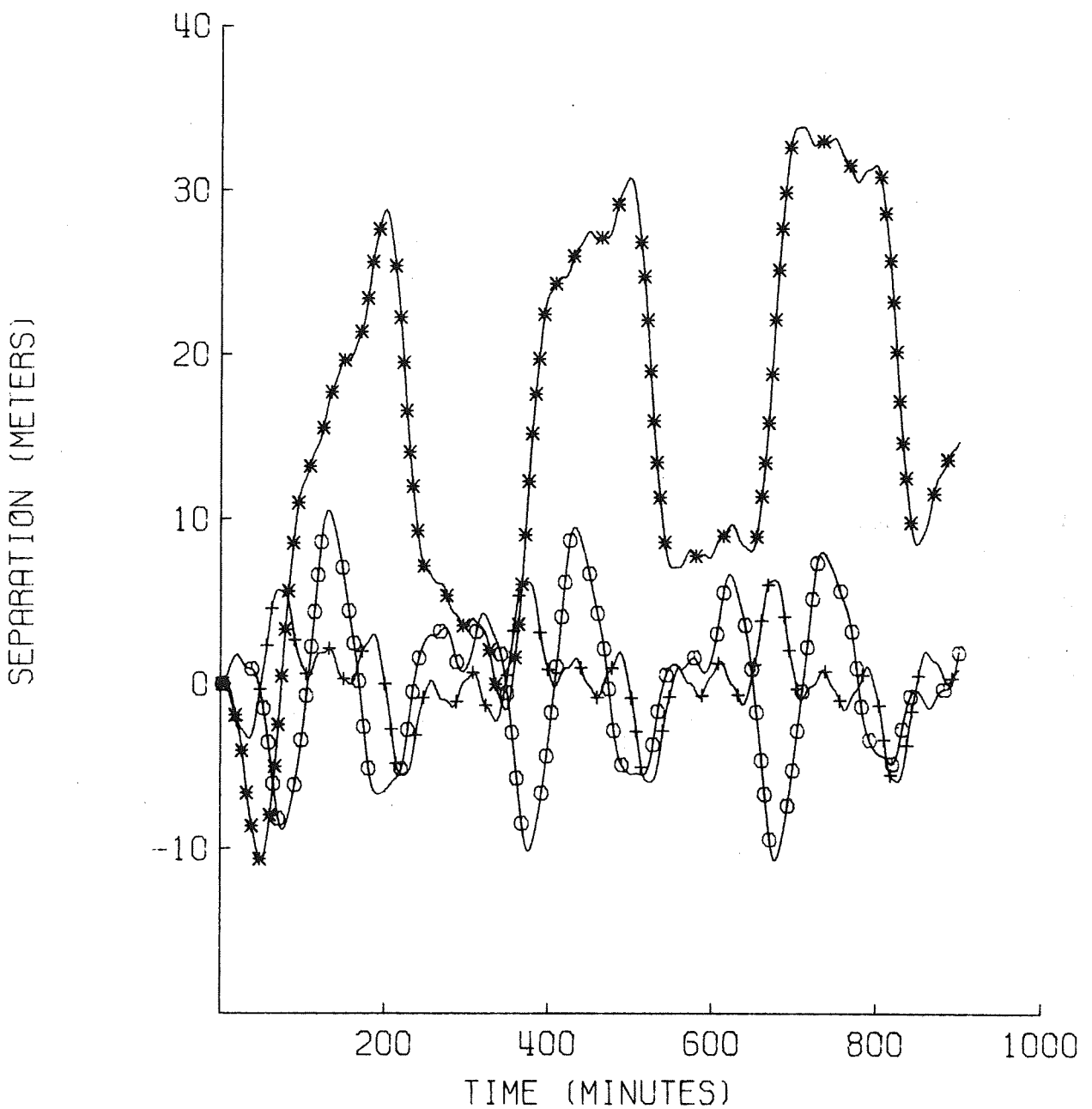
- (*) IN-TRACK
- (+) PRINCIPAL NORMAL CROSS-TRACK
- (⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(6 , 5) = -.2760
FACTOR USED IS 1.000000

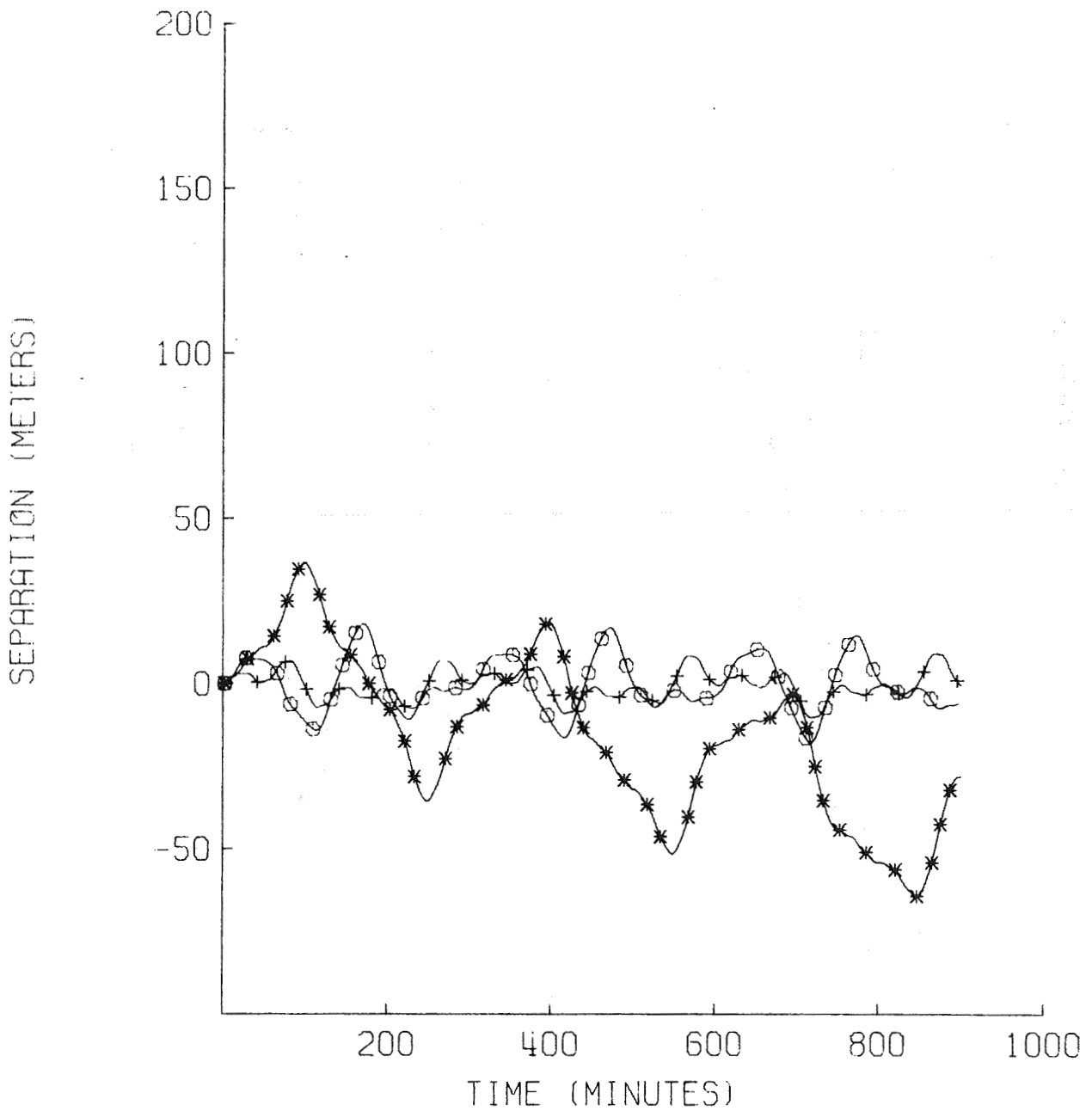
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(6 , 5) = -.4555
FACTOR USED IS 1.000000

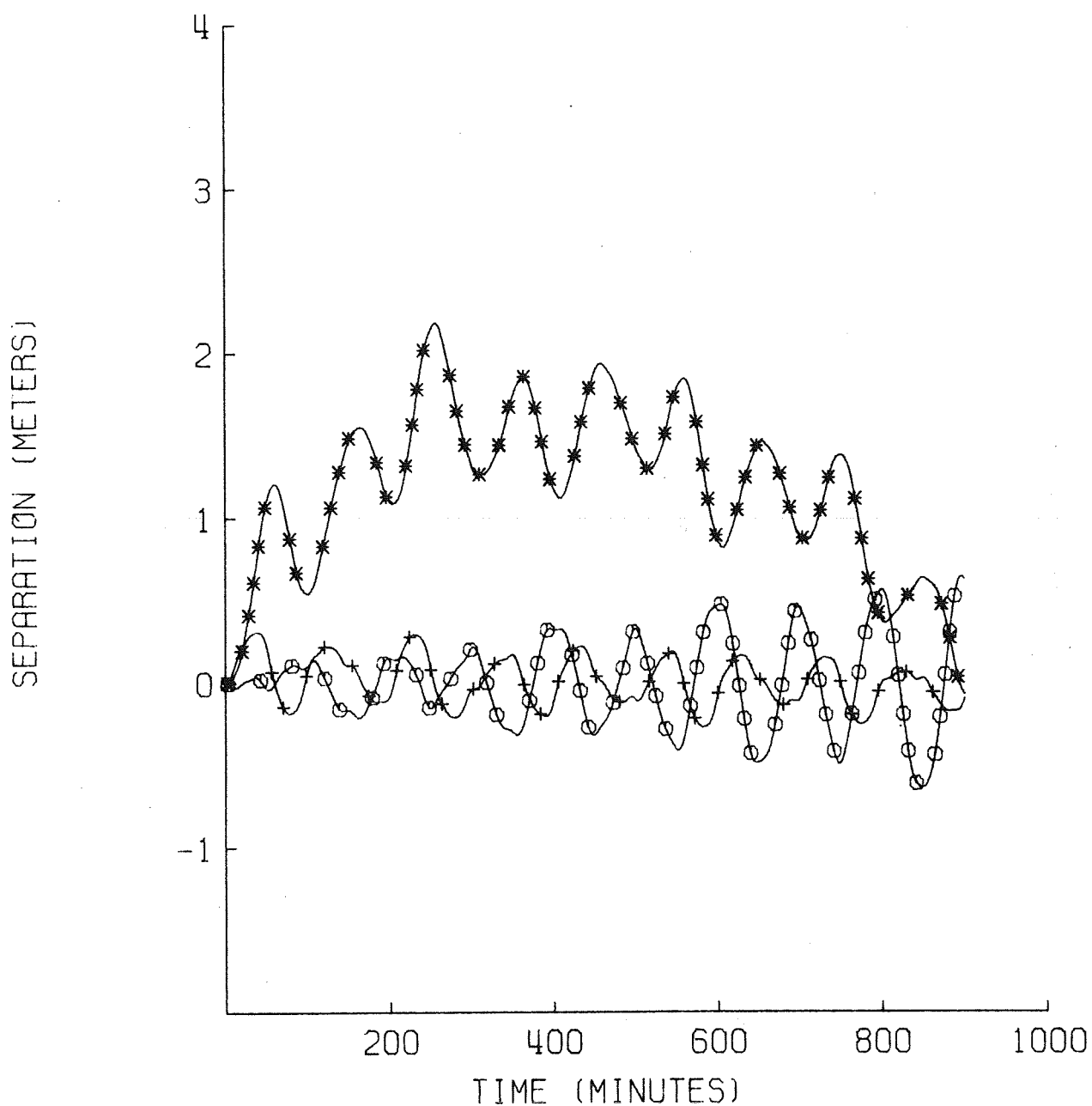
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 , 6) = -.0124
 FACTOR USED IS 1.000000

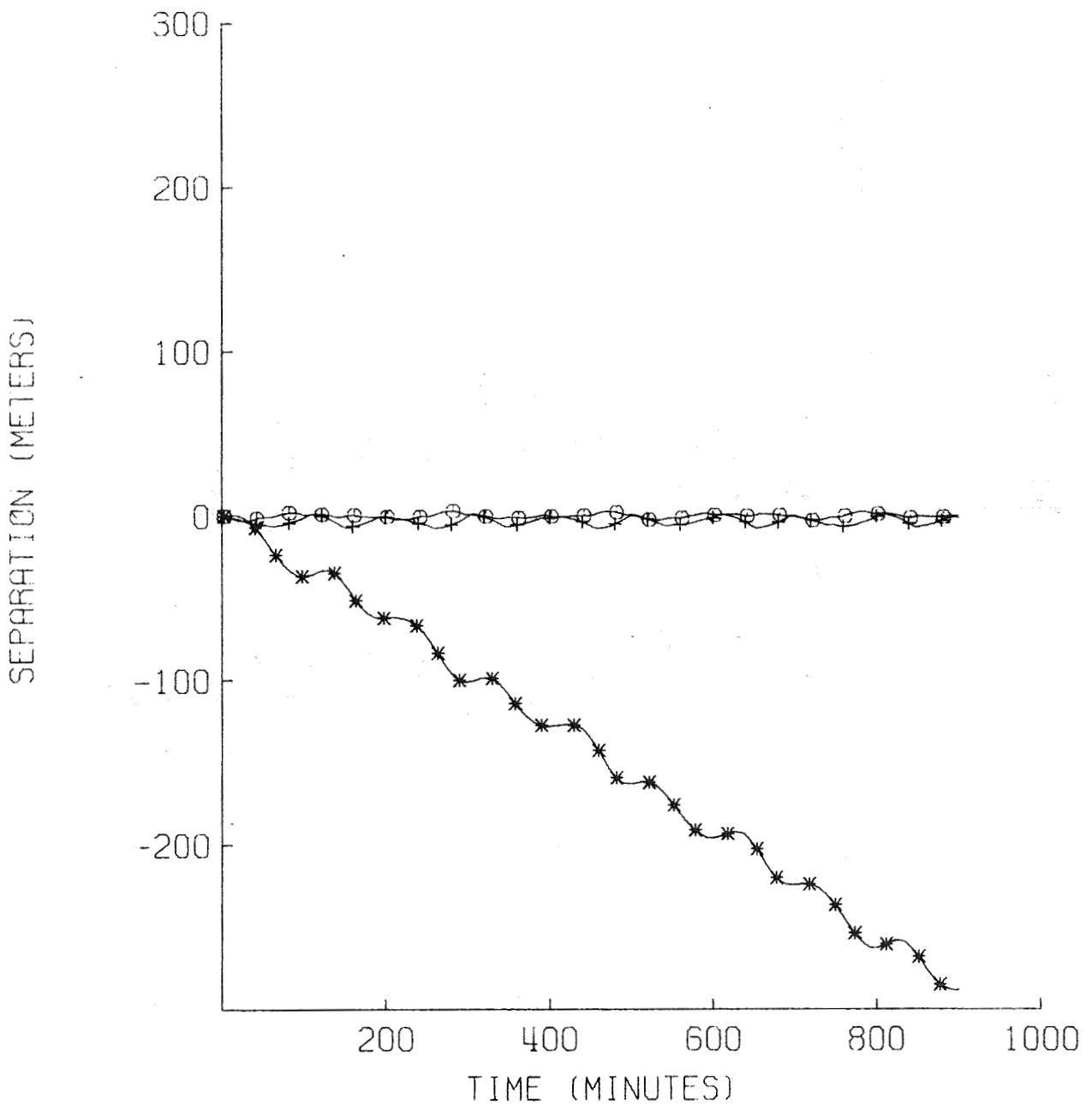
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(6 , 6) = -.2009
FACTOR USED IS 1.000000

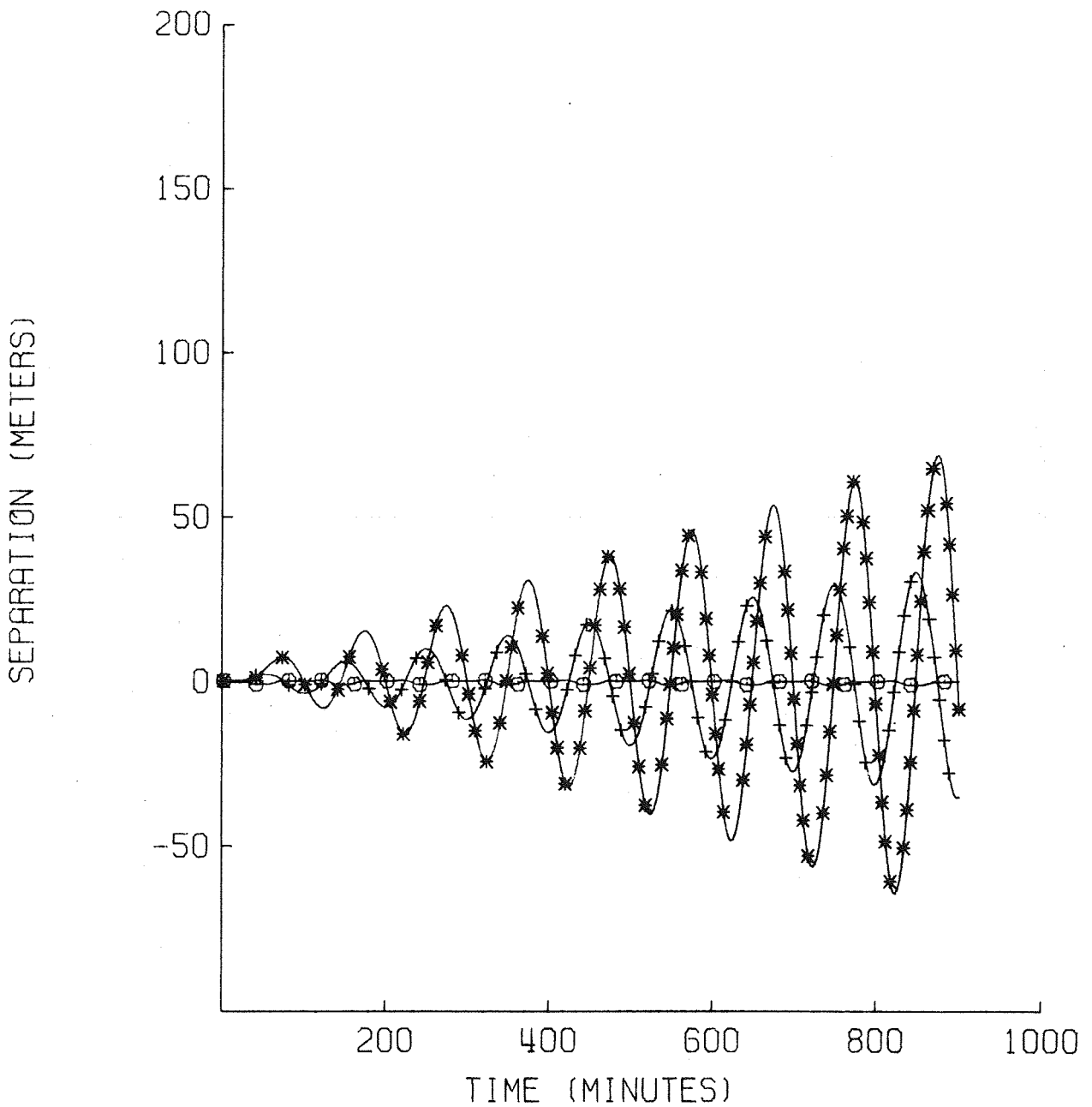
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(7 , 0) = .0890
FACTOR USED IS 1.000000

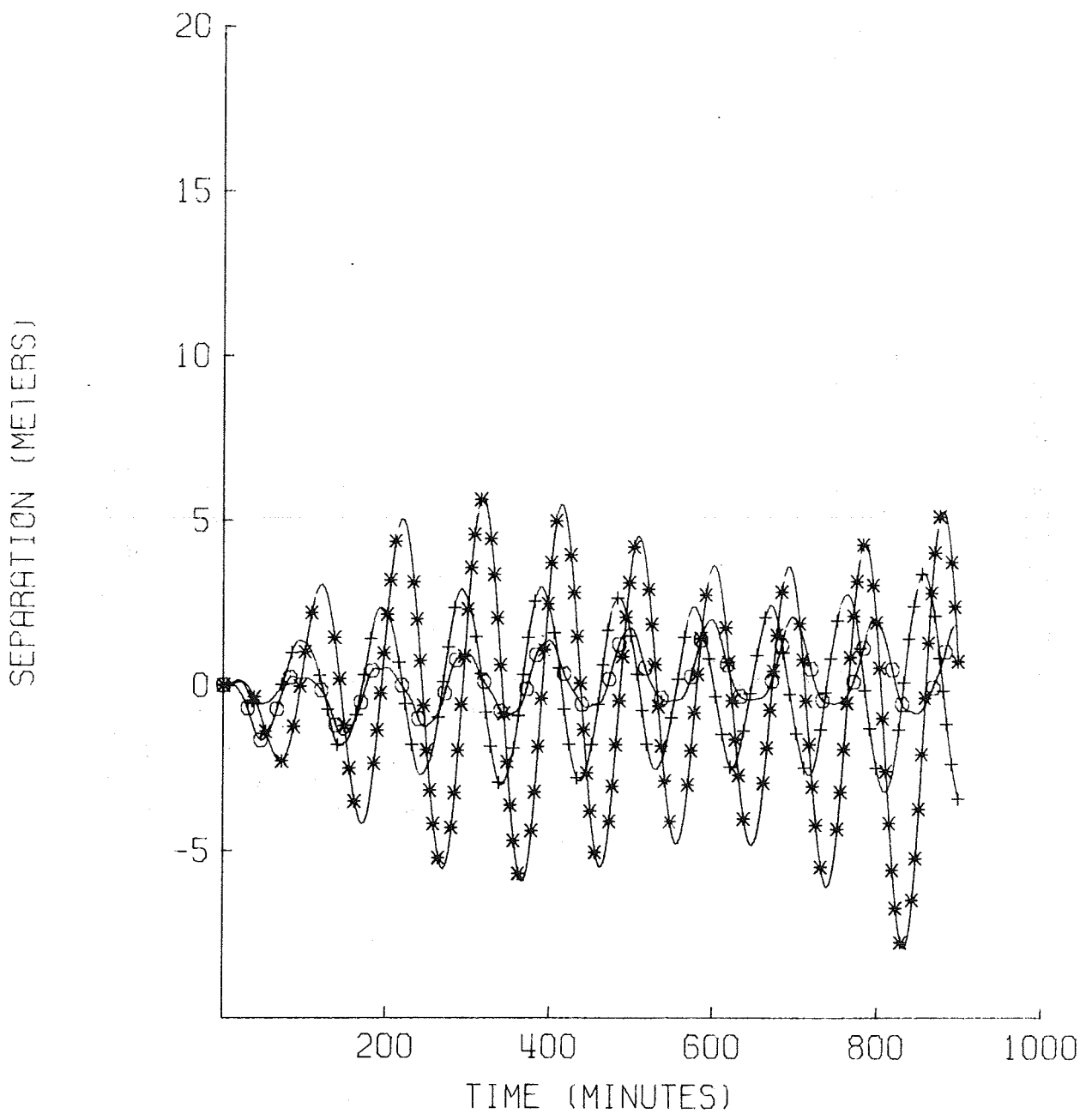
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(7, 1) = .0996
FACTOR USED IS 1.000000

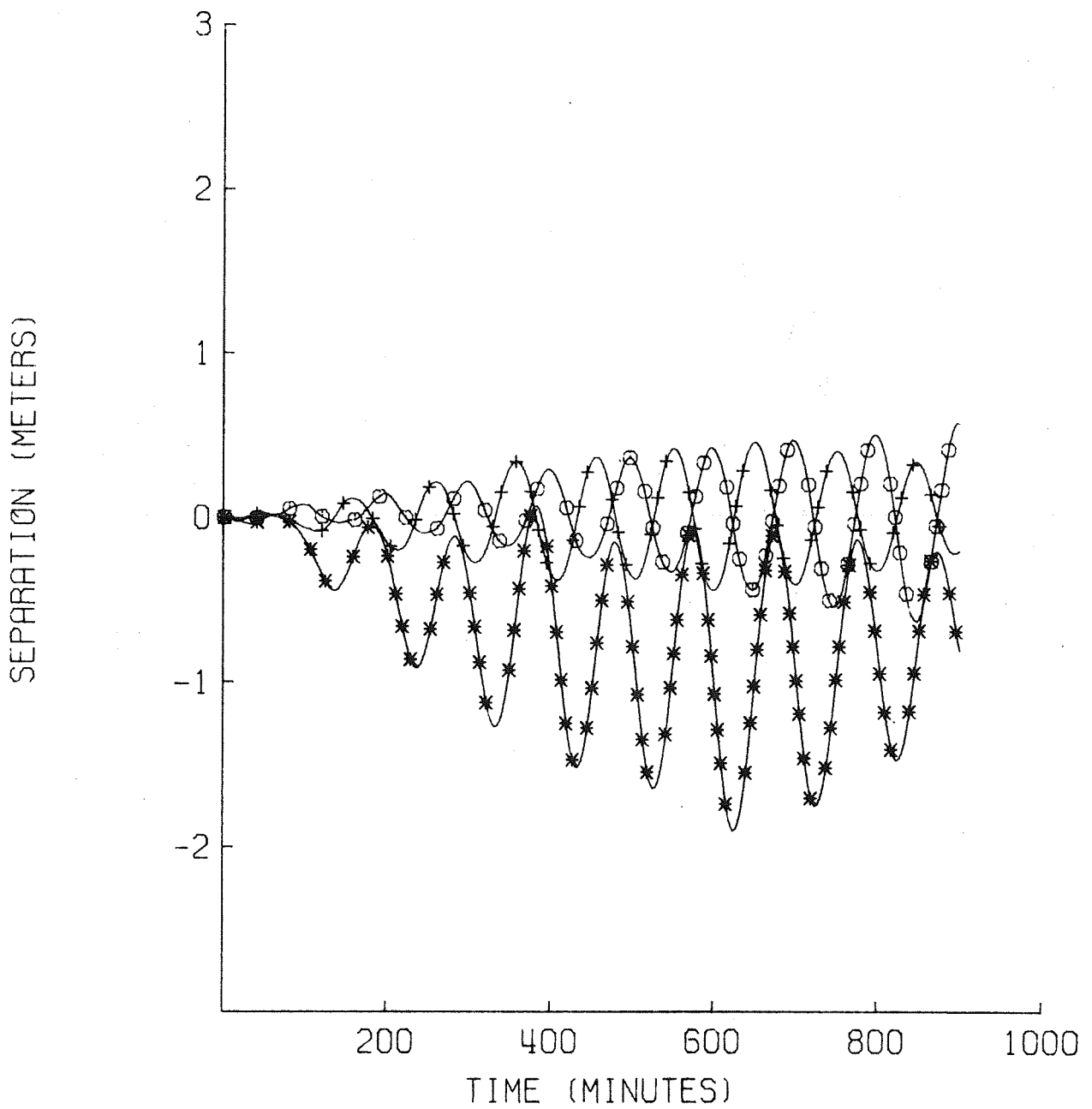
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(7 , 1) = .0062
FACTOR USED IS 1.000000

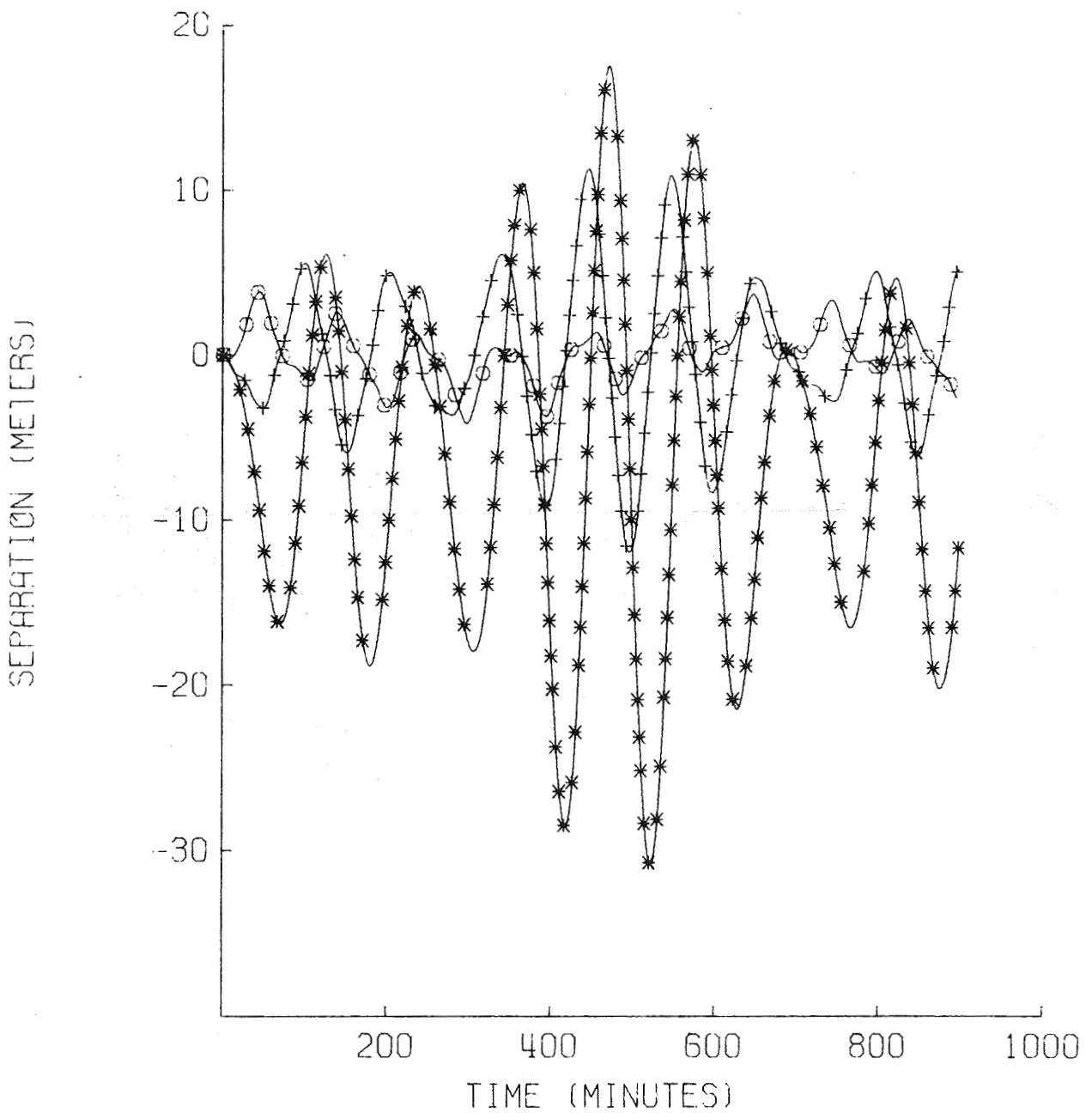
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(7 , 2) = .2632
 FACTOR USED IS 1.000000

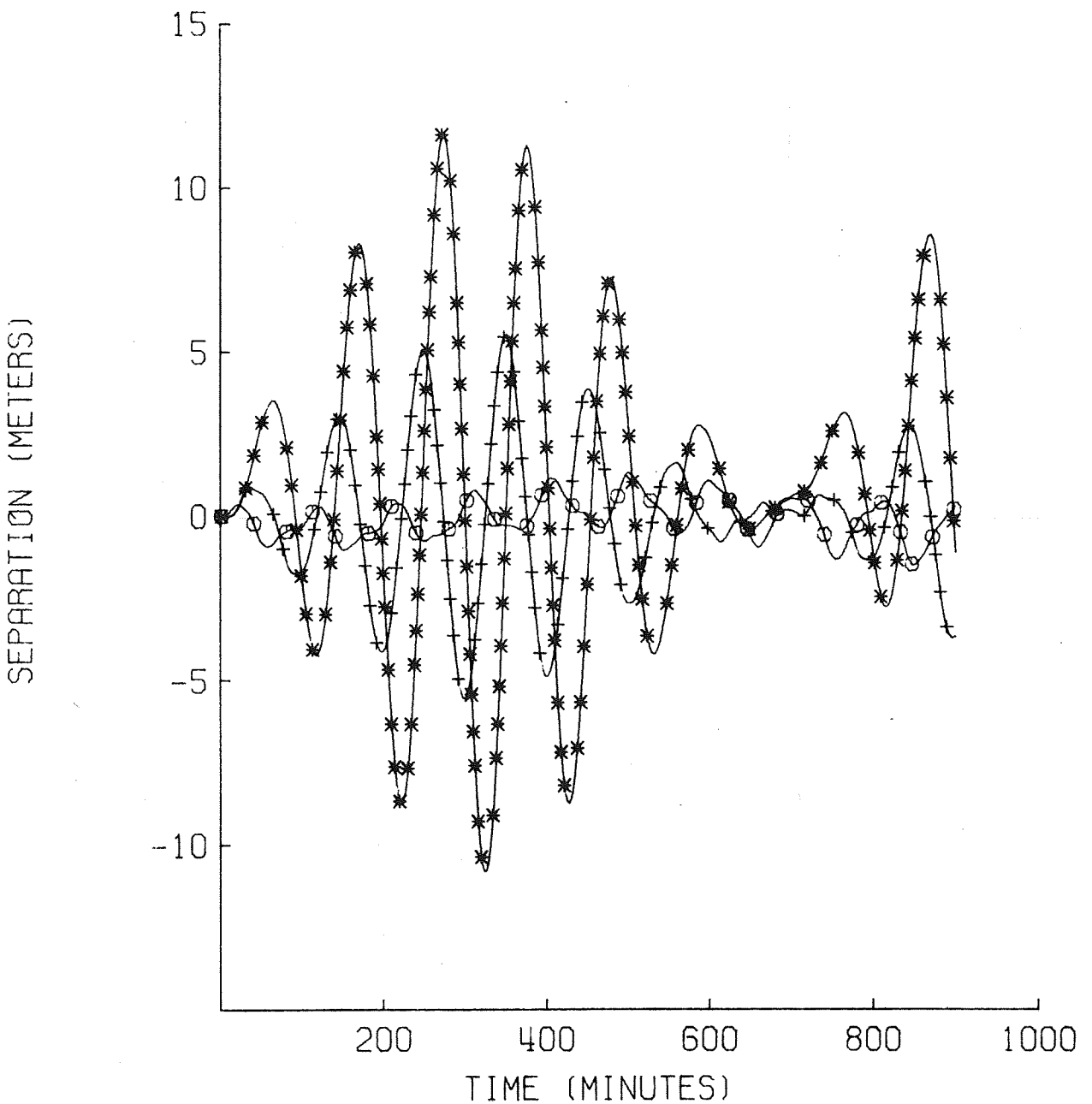
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(7 , 2) = .0832
FACTOR USED IS 1.000000

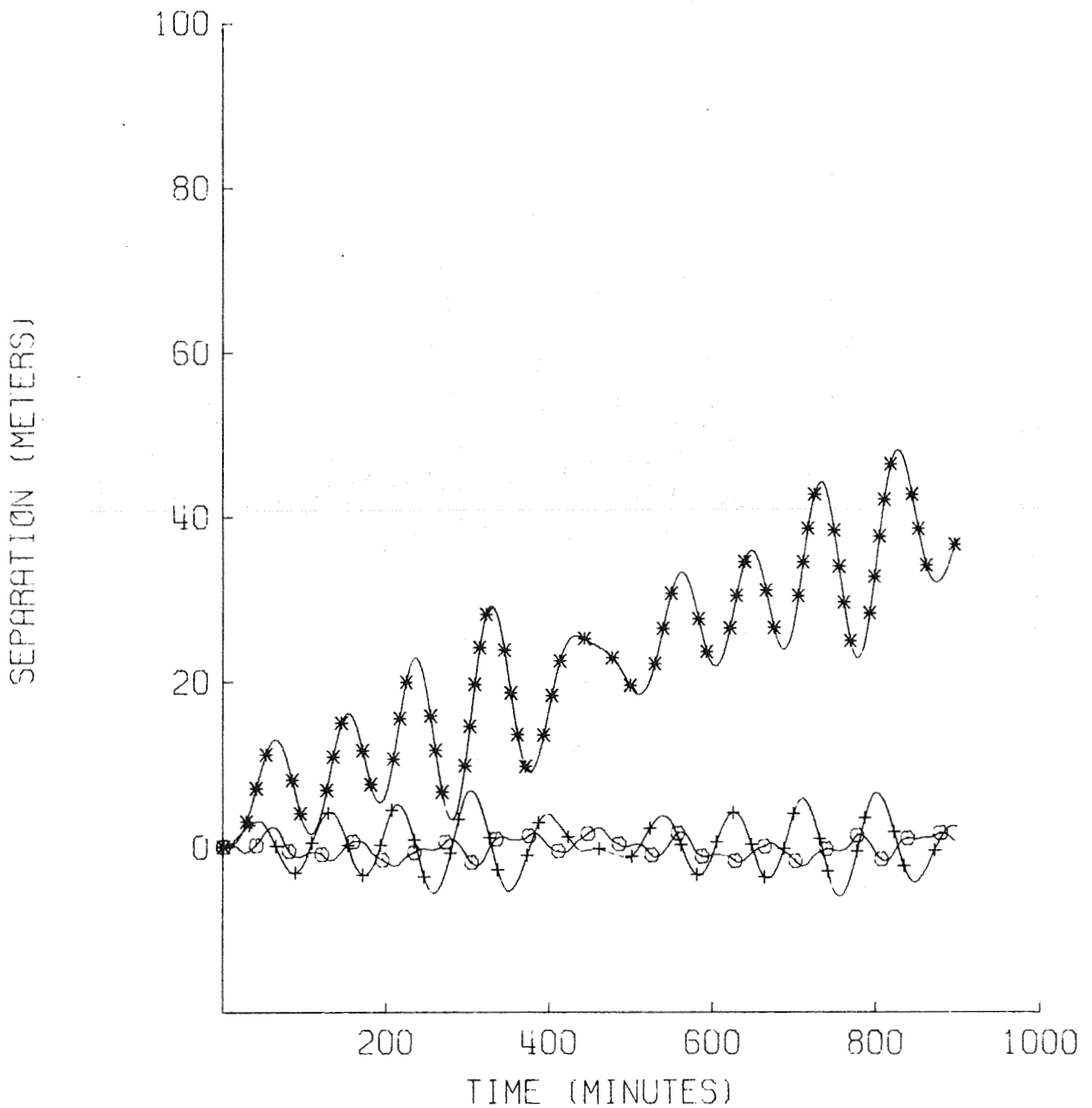
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(7 , 3) = .1540
 FACTOR USED IS 1.000000

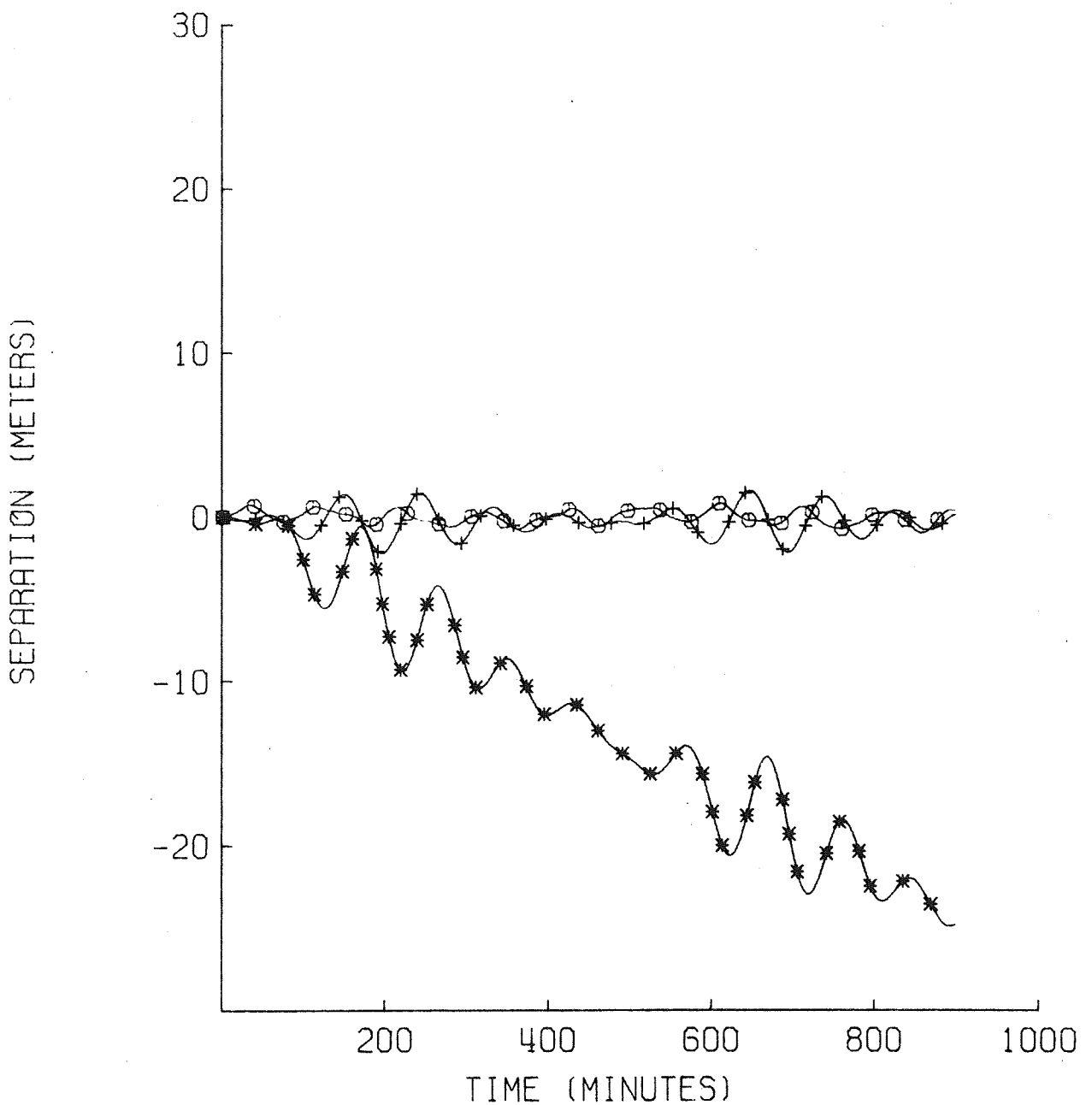
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(7 , 3) = -.0391
 FACTOR USED IS 1.000000

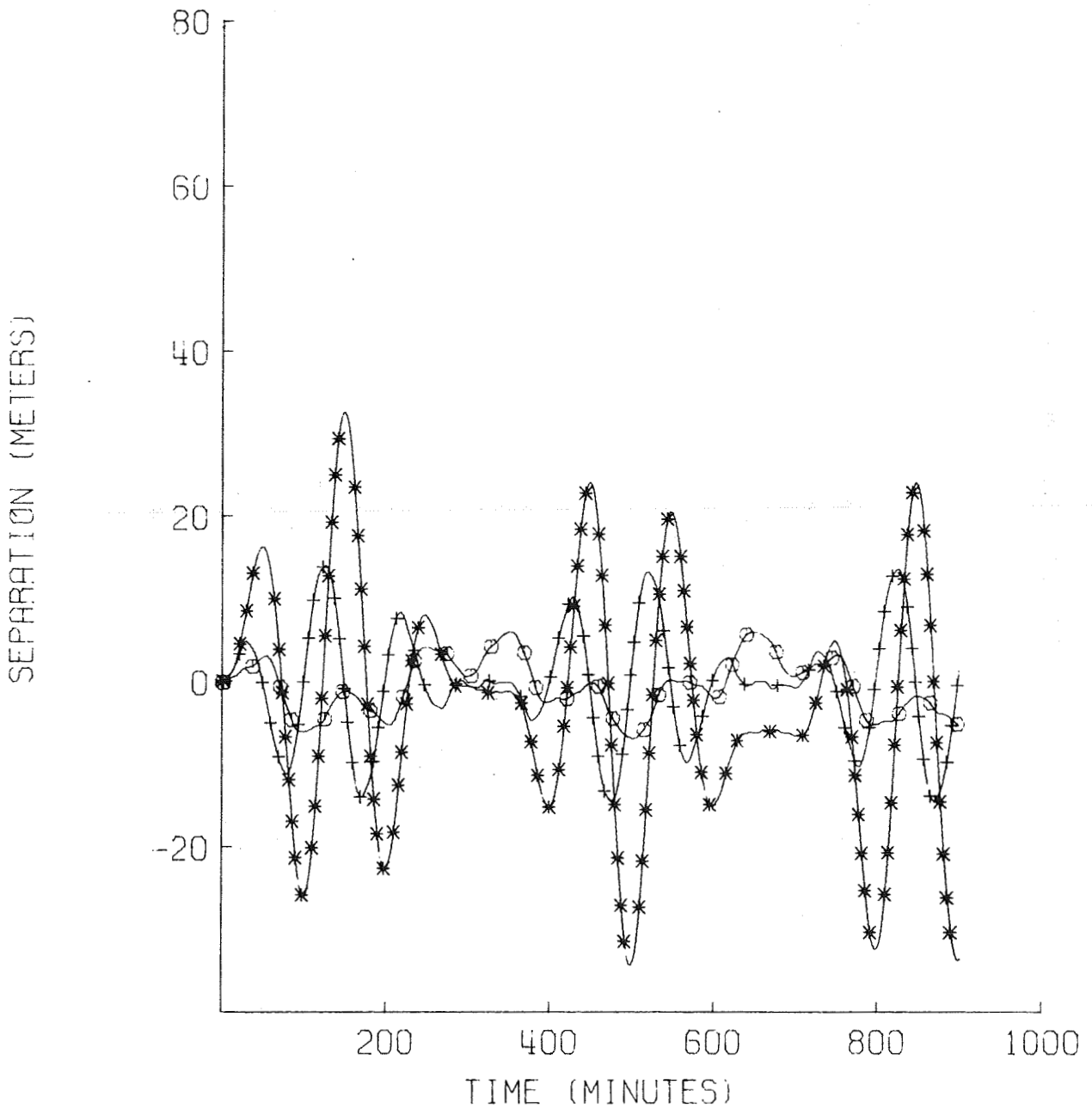
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(7 ,4) = -.2898
FACTOR USED IS 1.000000

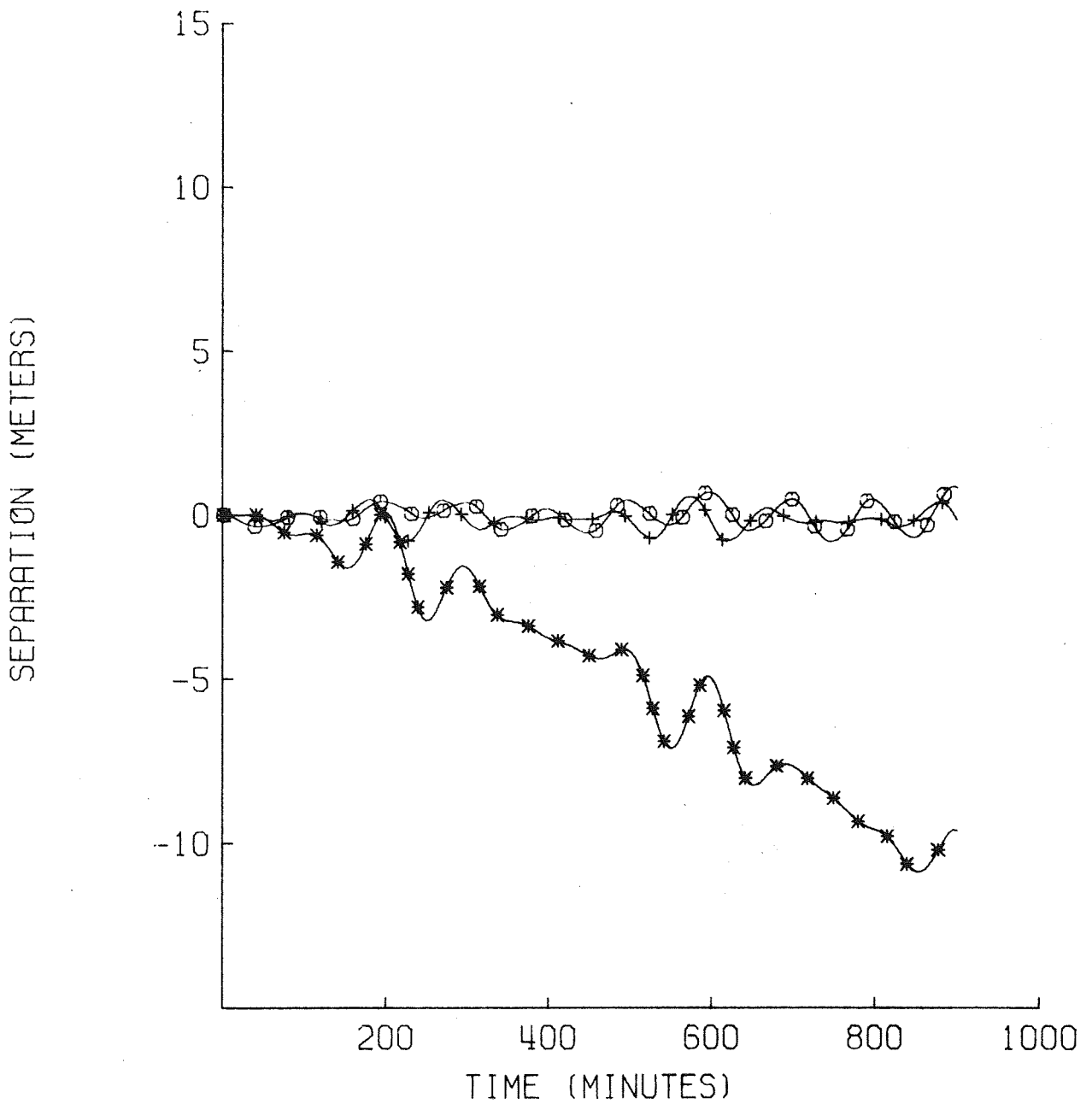
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(7 .4) = -.0145
FACTOR USED IS 1.000000

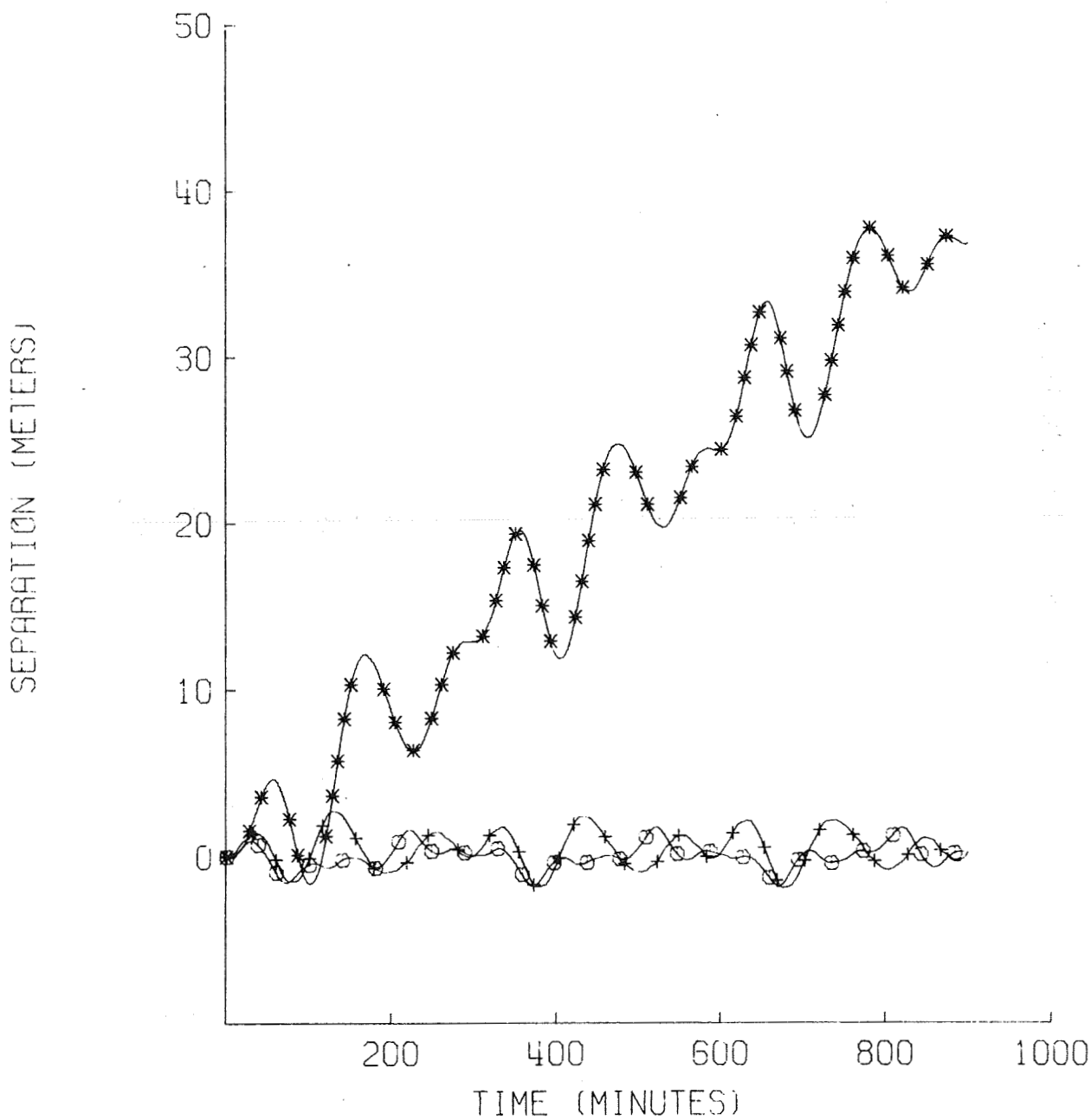
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7139.6535

RUN FOR C(7 ,5) = .0612
 FACTOR USED IS 1.000000

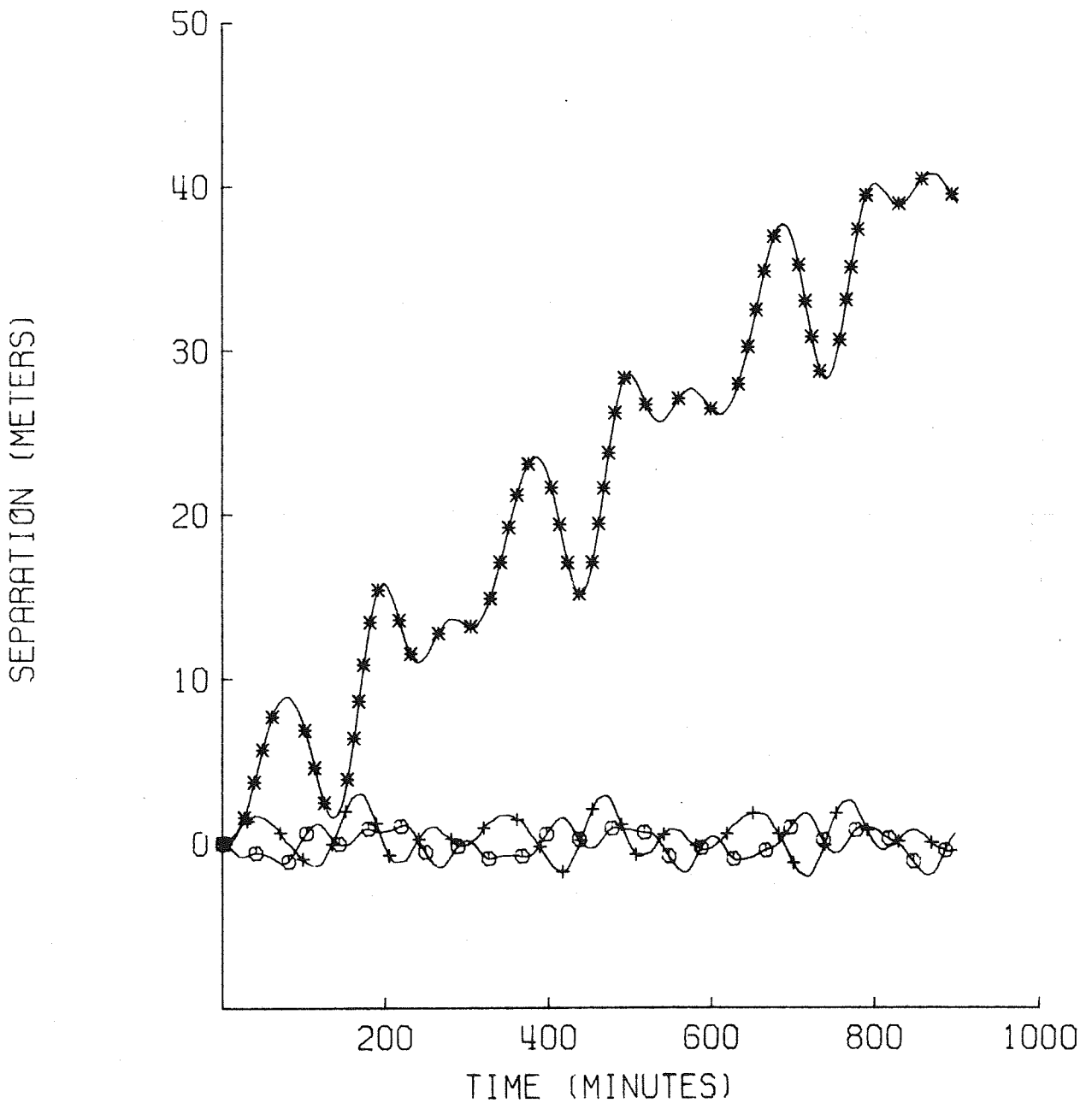
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(7 ,5) = .0634
 FACTOR USED IS 1.000000

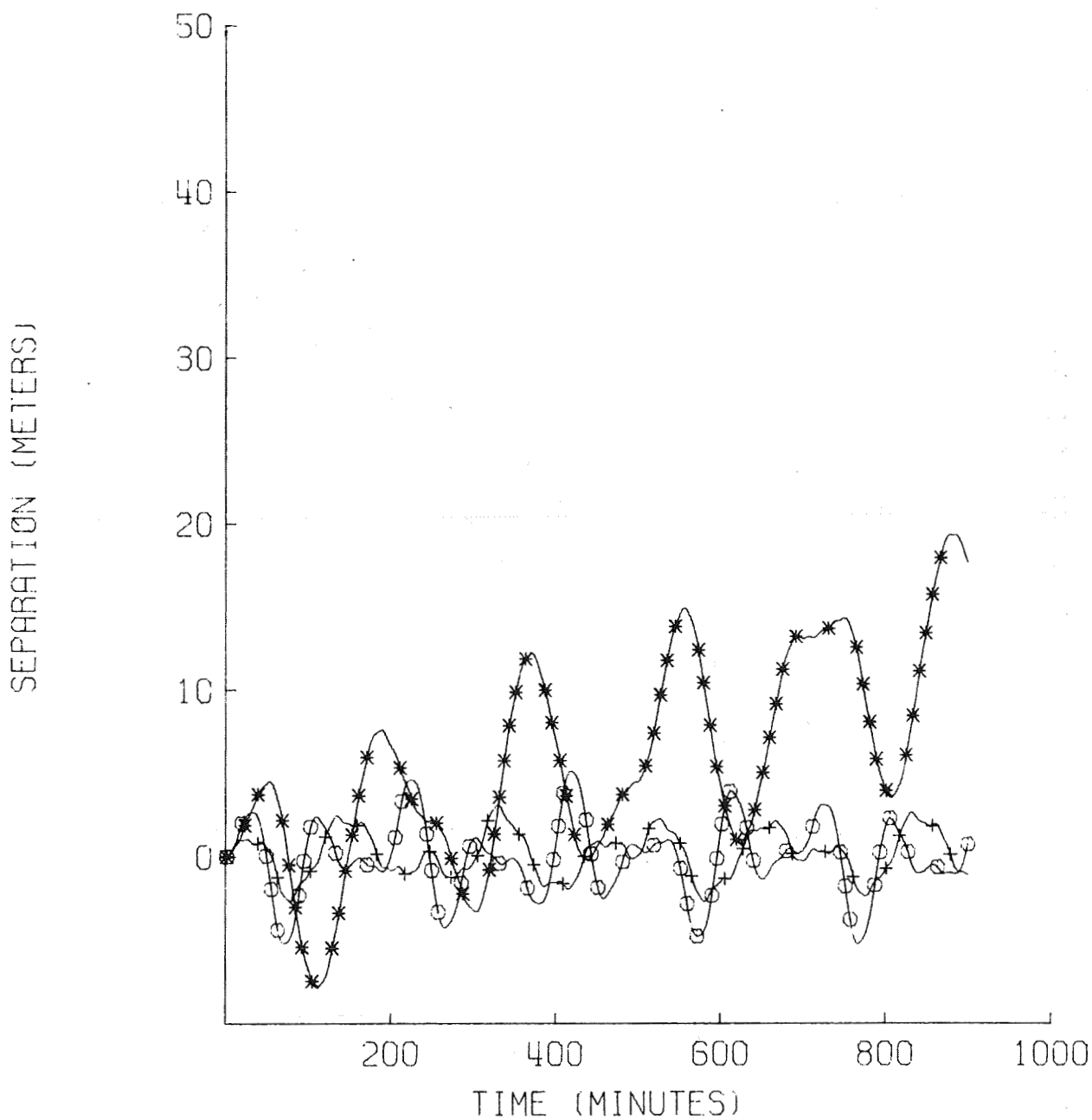
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(7 ,6) = -.1685
 FACTOR USED IS 1.000000

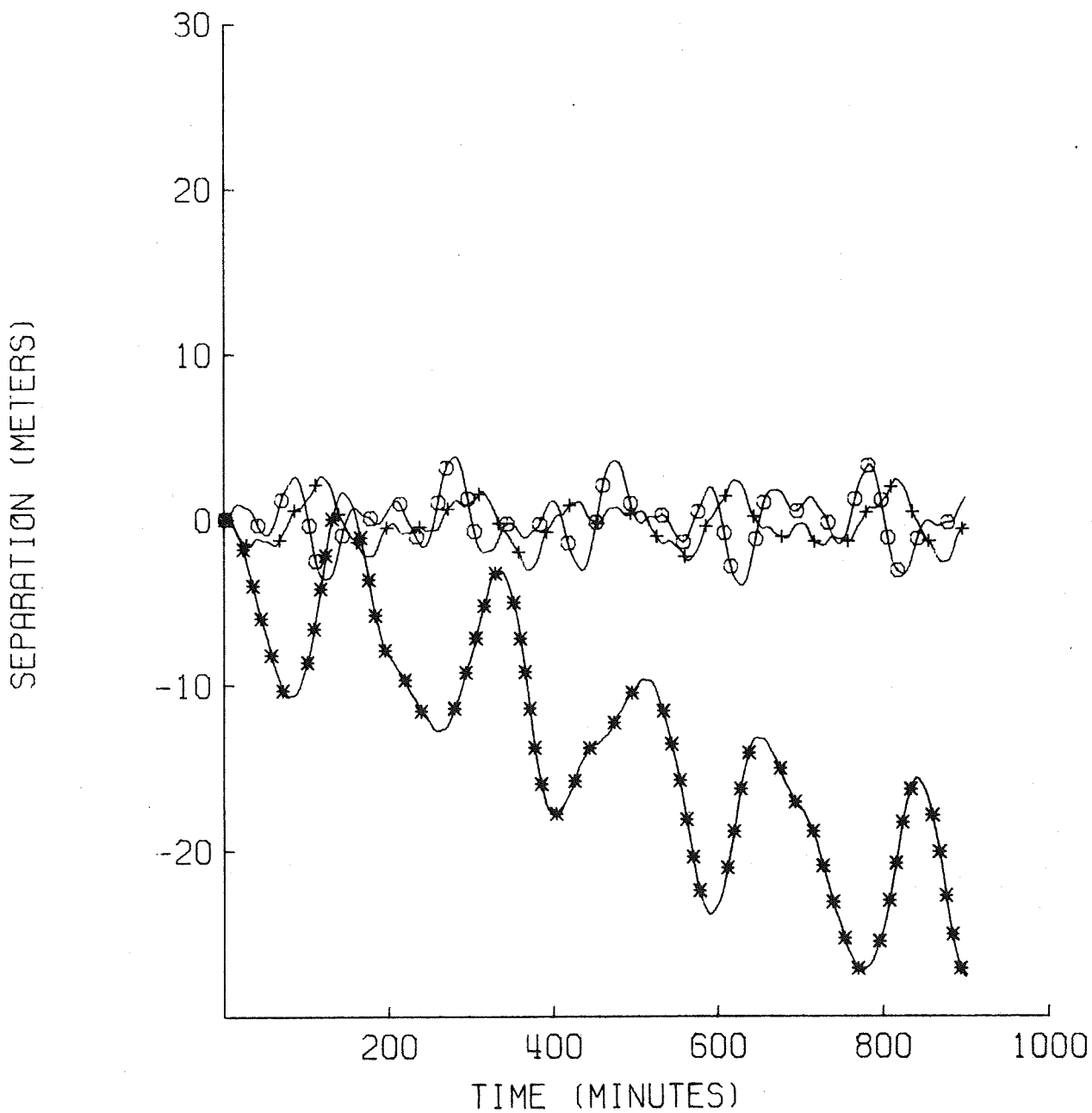
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(7 ,6) = .1512
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7130.6535

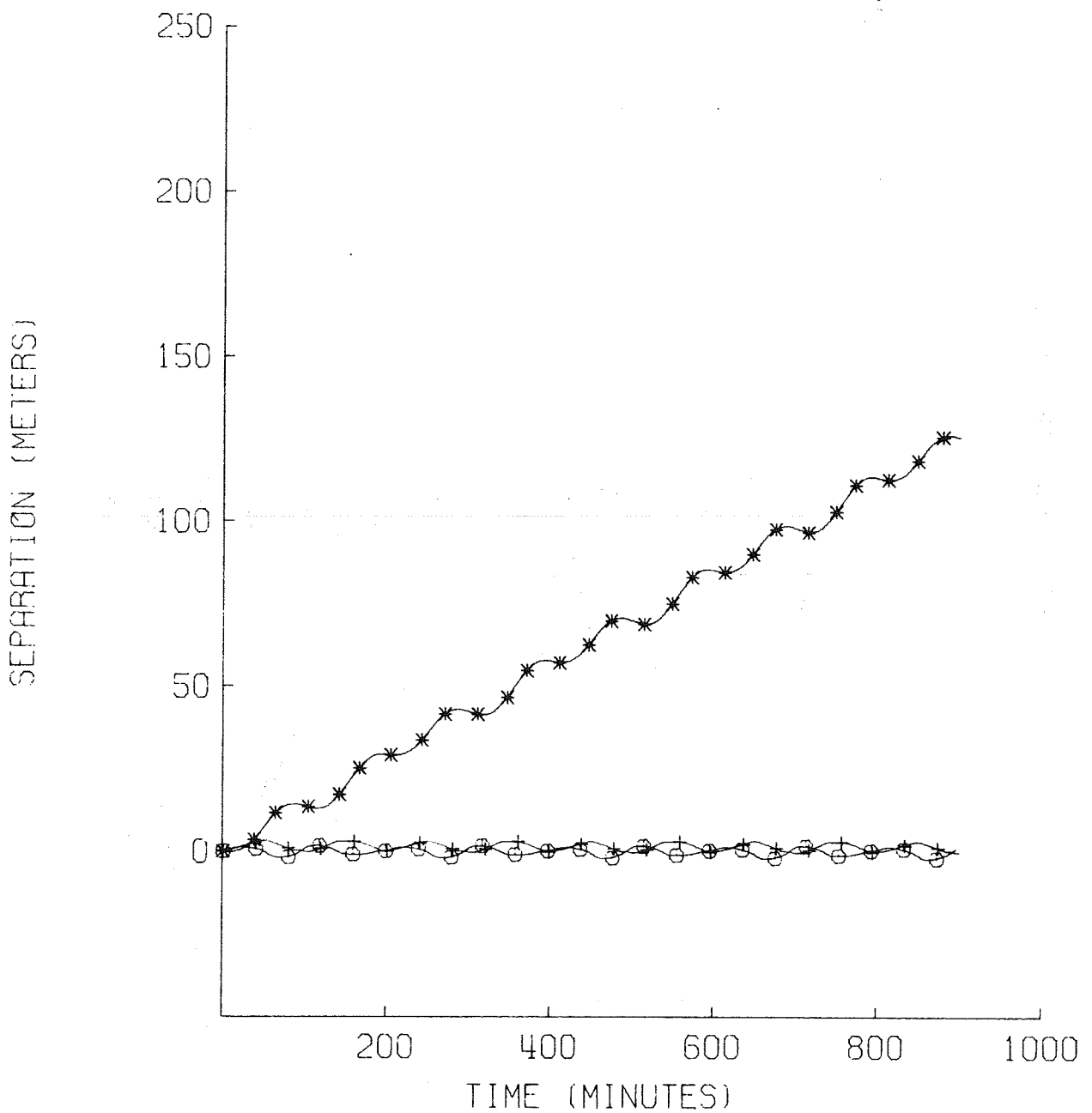
RUN FOR C(7 , 7) = .0897

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

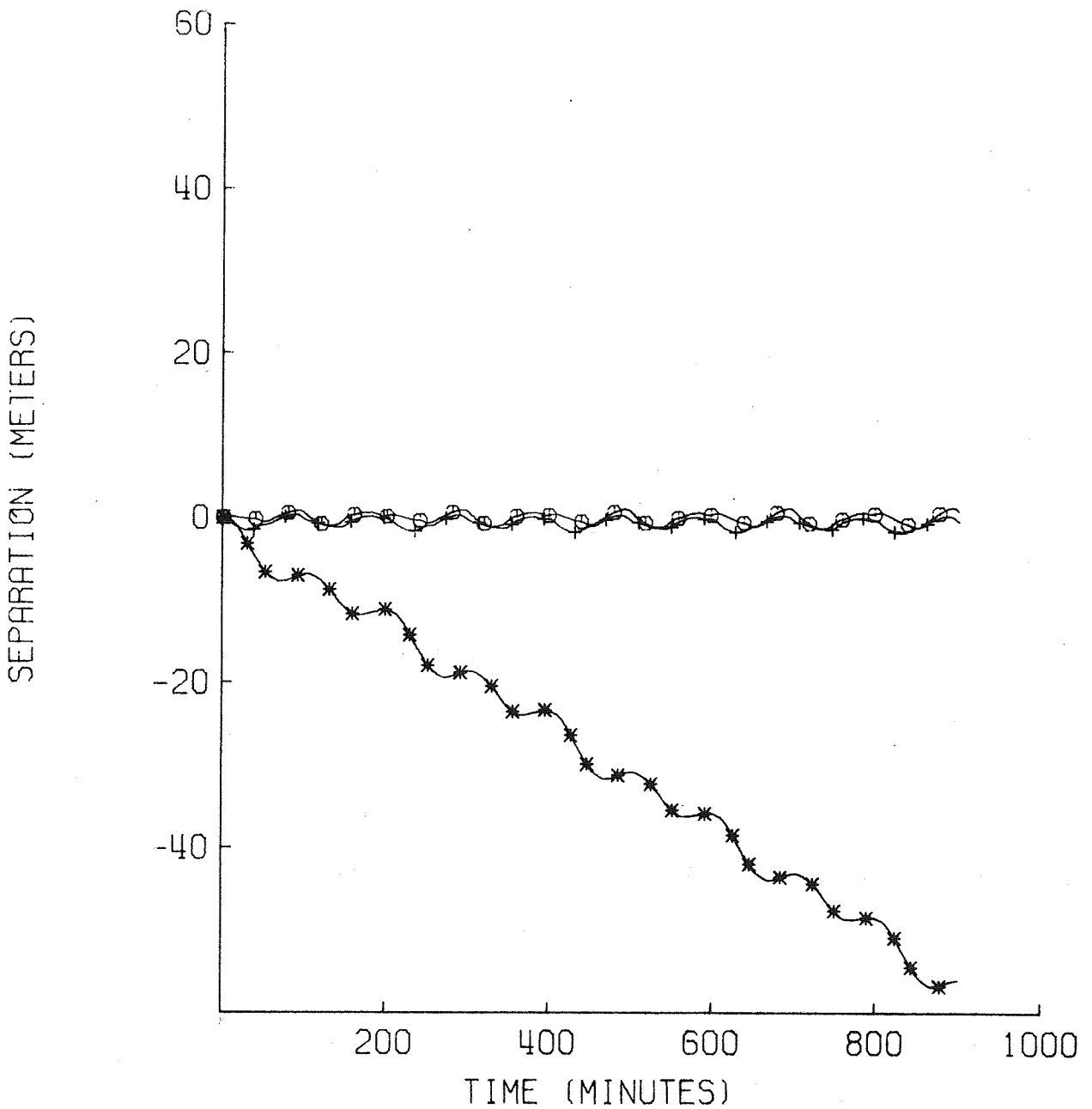
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(7 , 7) = -.0672
 FACTOR USED IS 1.000000

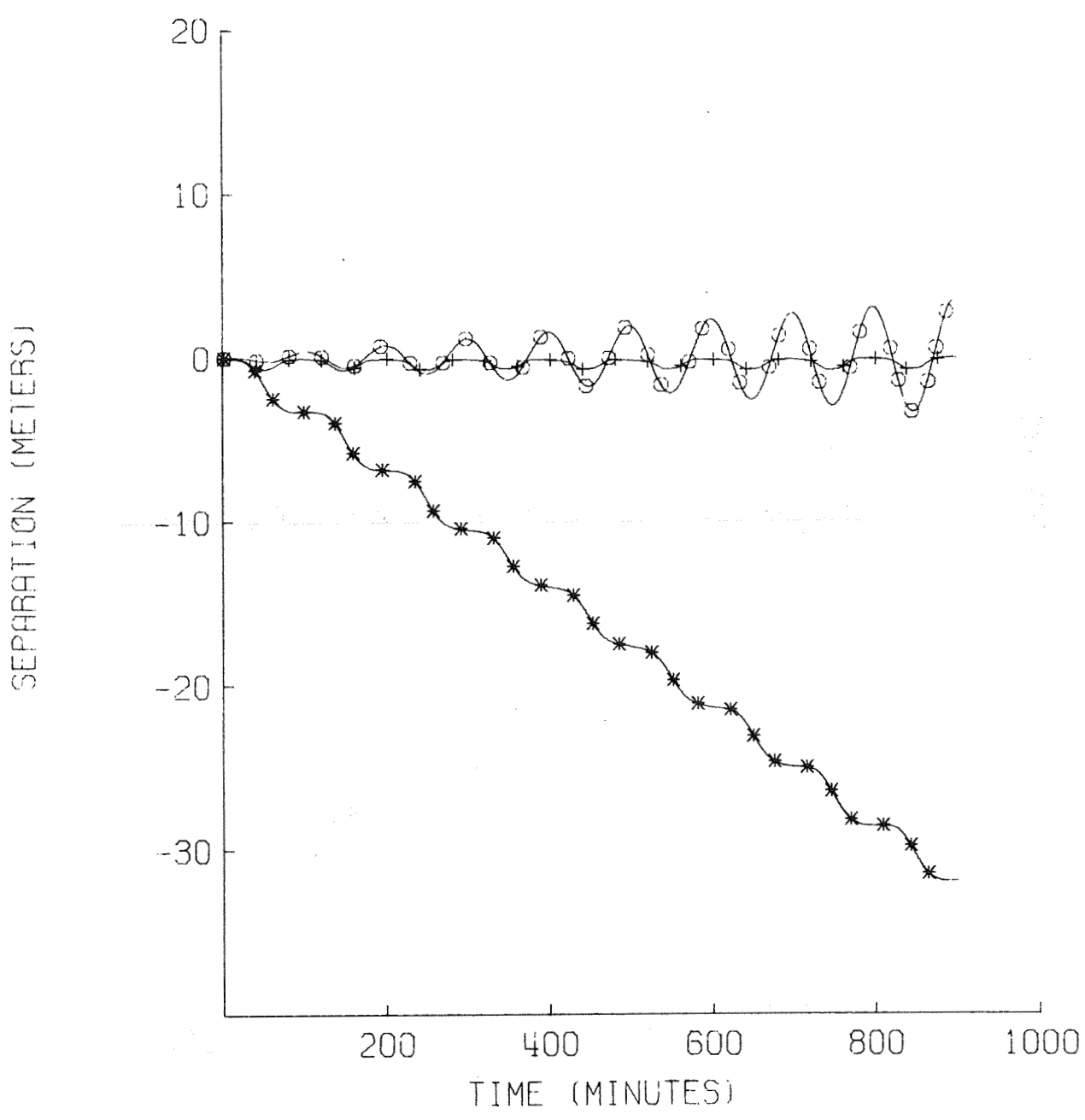
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7130.6535

RUN FOR C(8 ,0) = -.0195
 FACTOR USED IS 1.000000

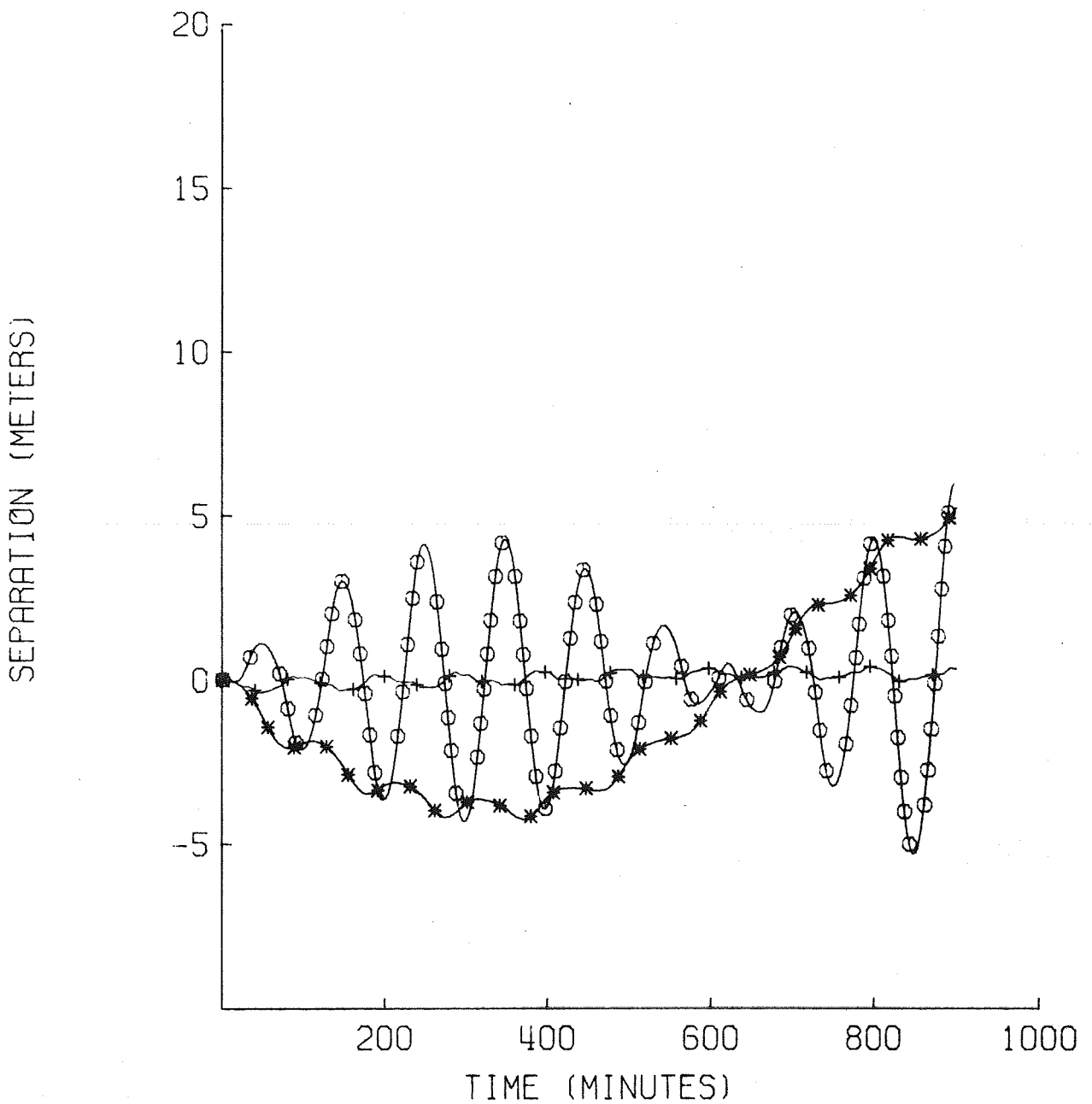
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 ,1) = -.0738
FACTOR USED IS 1.000000

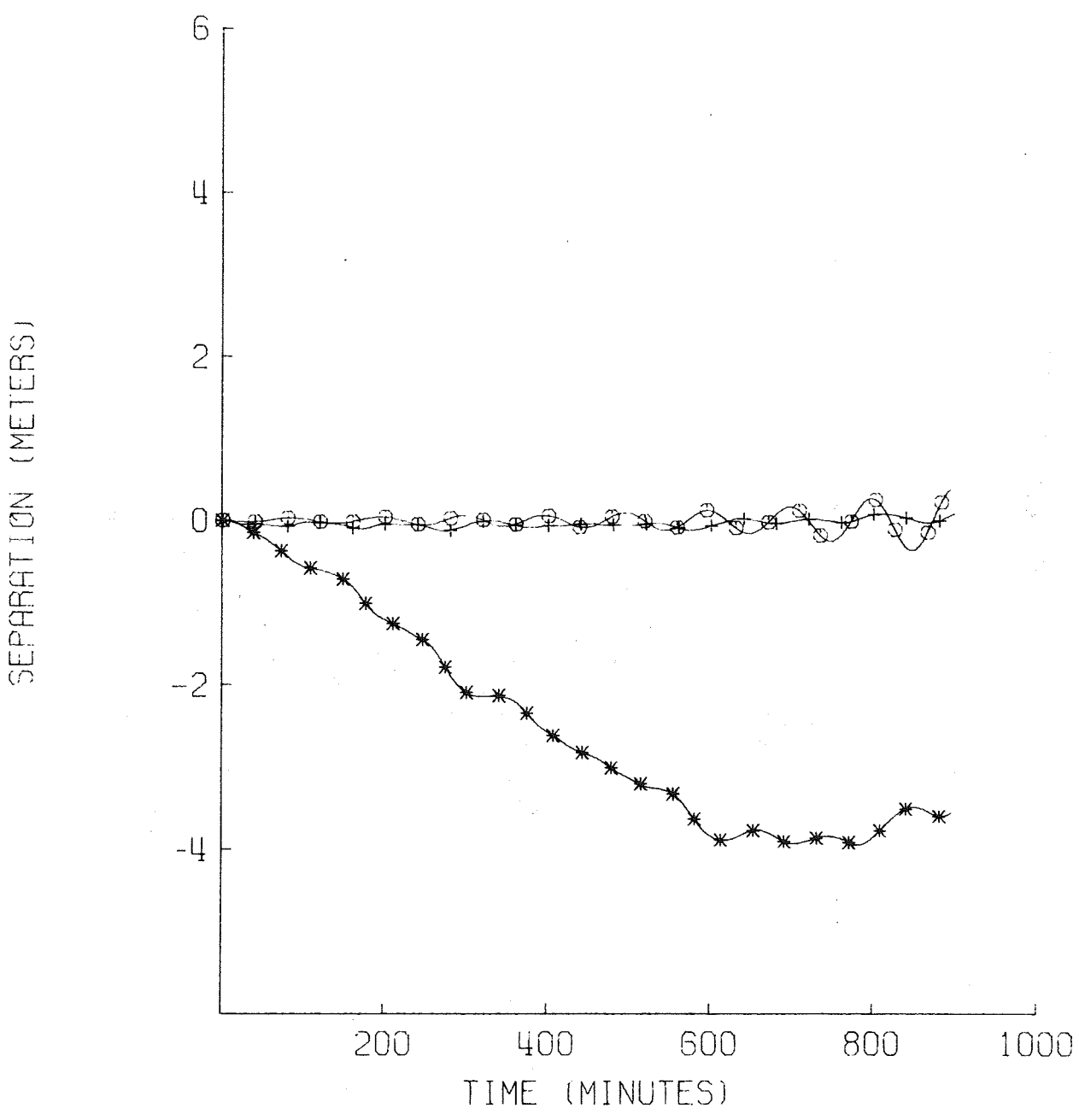
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(8 , 1) = .0017
 FACTOR USED IS 1.000000

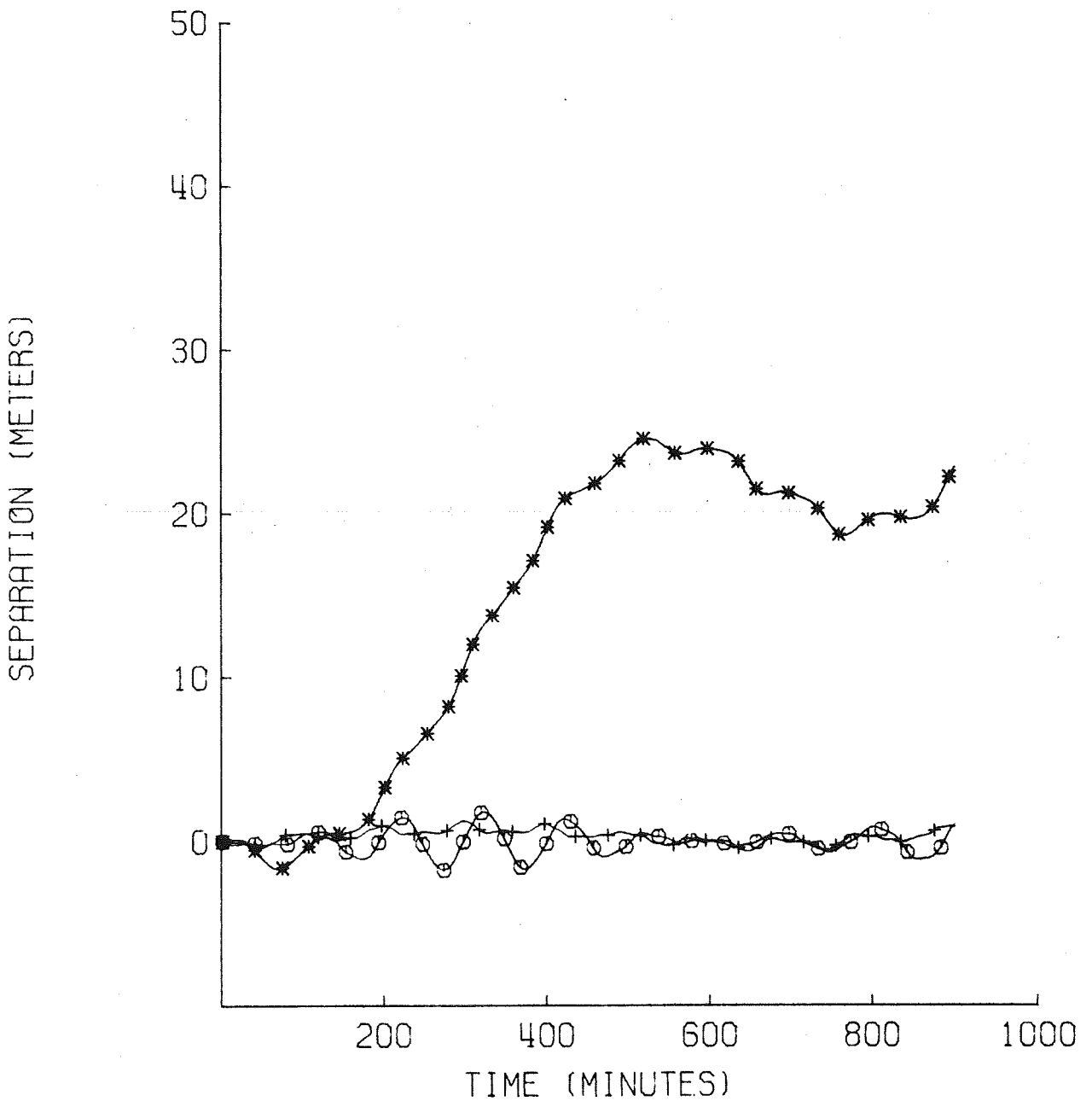
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 , 2) = .0621
 FACTOR USED IS 1.000000

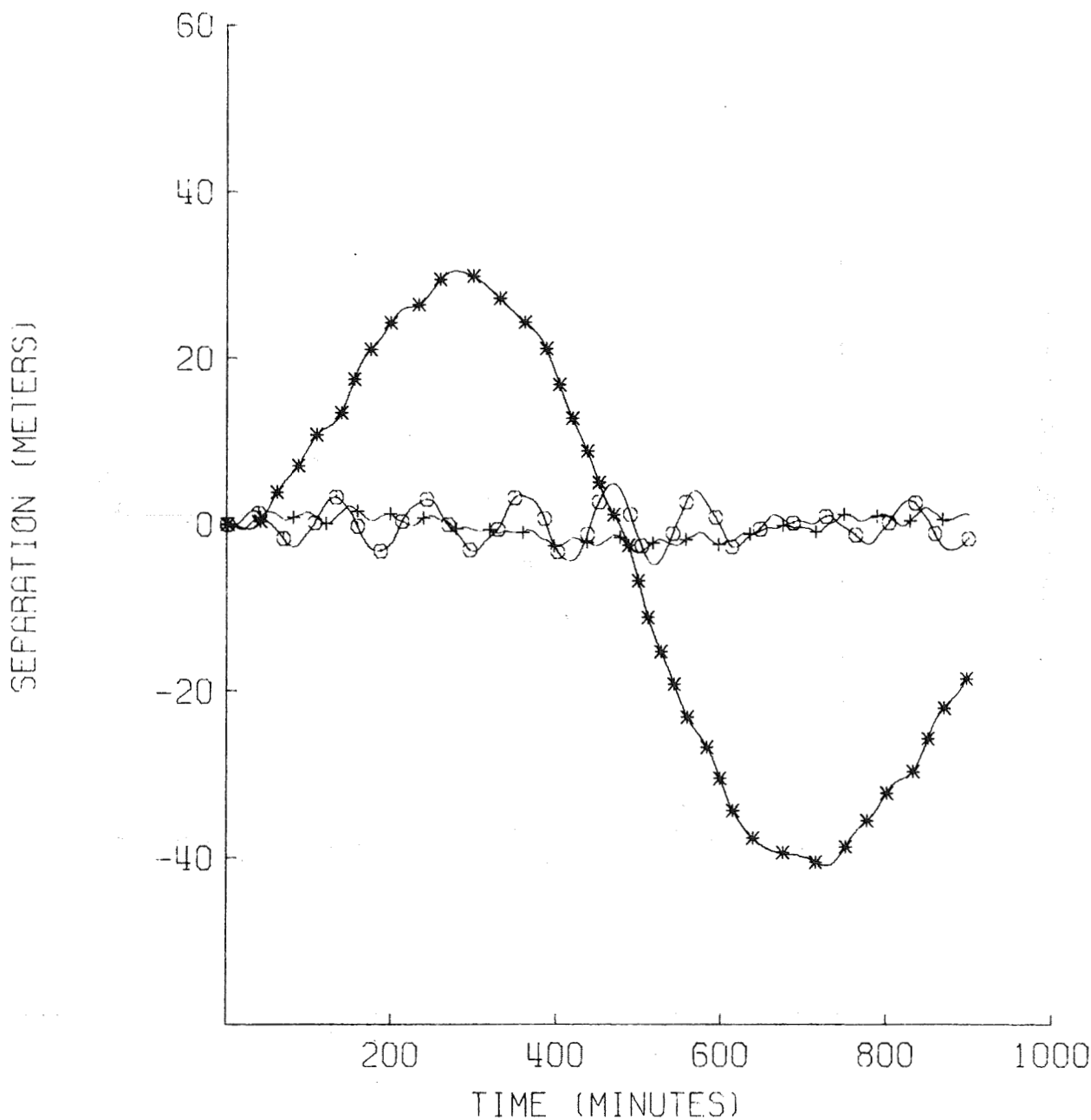
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(8 , 2) = .2220
 FACTOR USED IS 1.000000

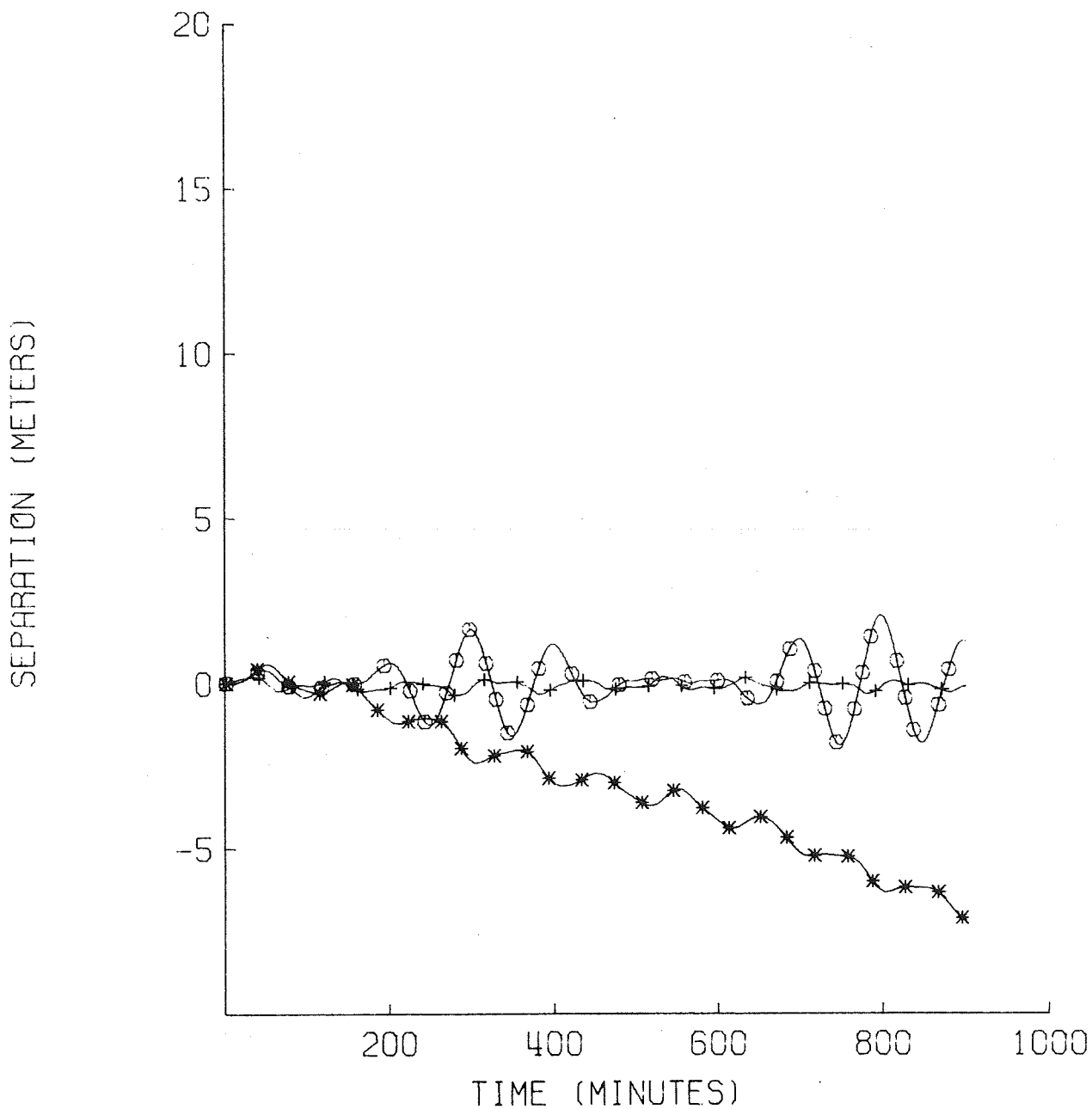
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 , 3) = .0262
 FACTOR USED IS 1.000000

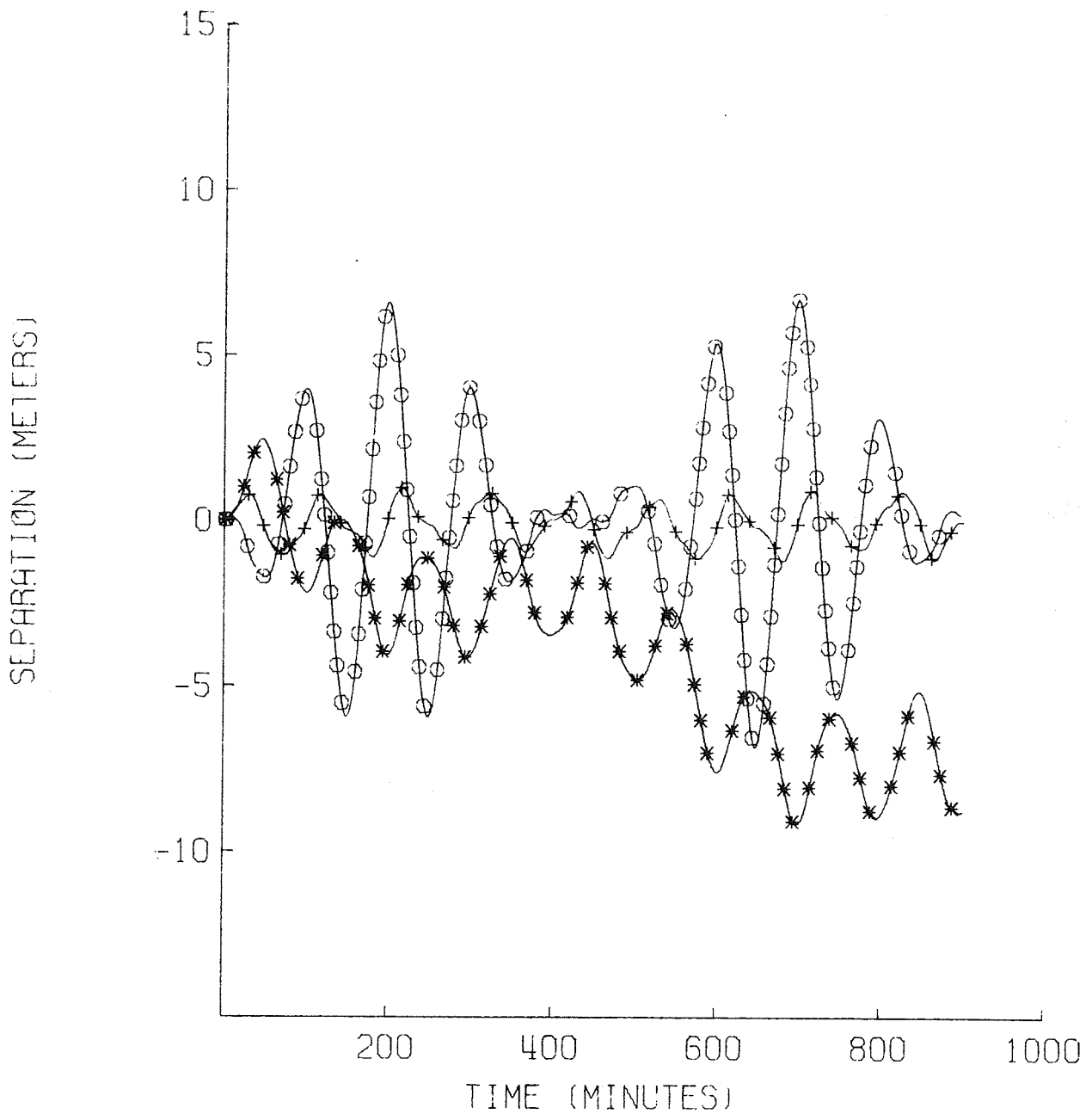
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(8 , 3) = .0907
FACTOR USED IS 1.000000

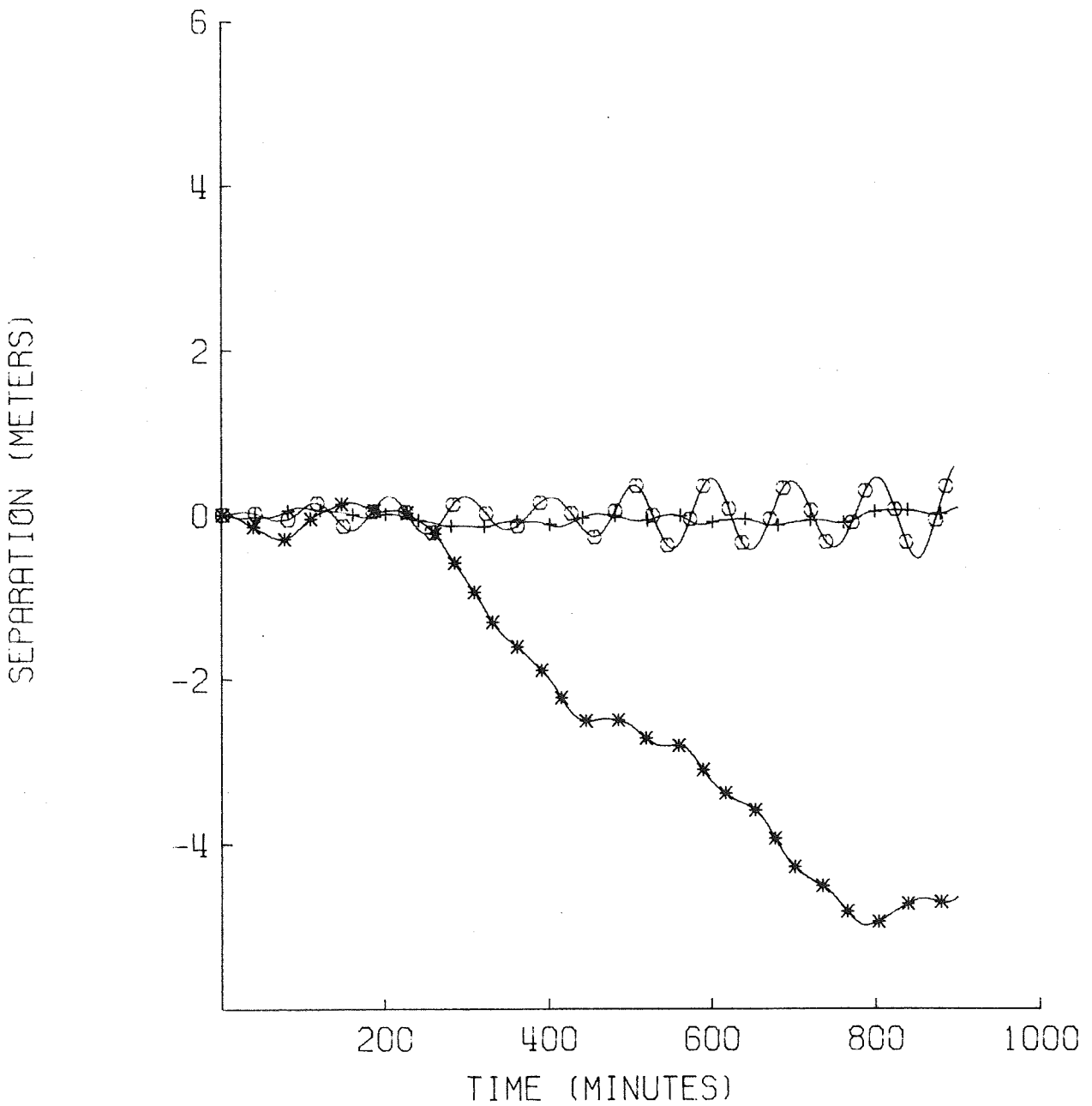
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 ,4) = -.0029
 FACTOR USED IS 1.000000

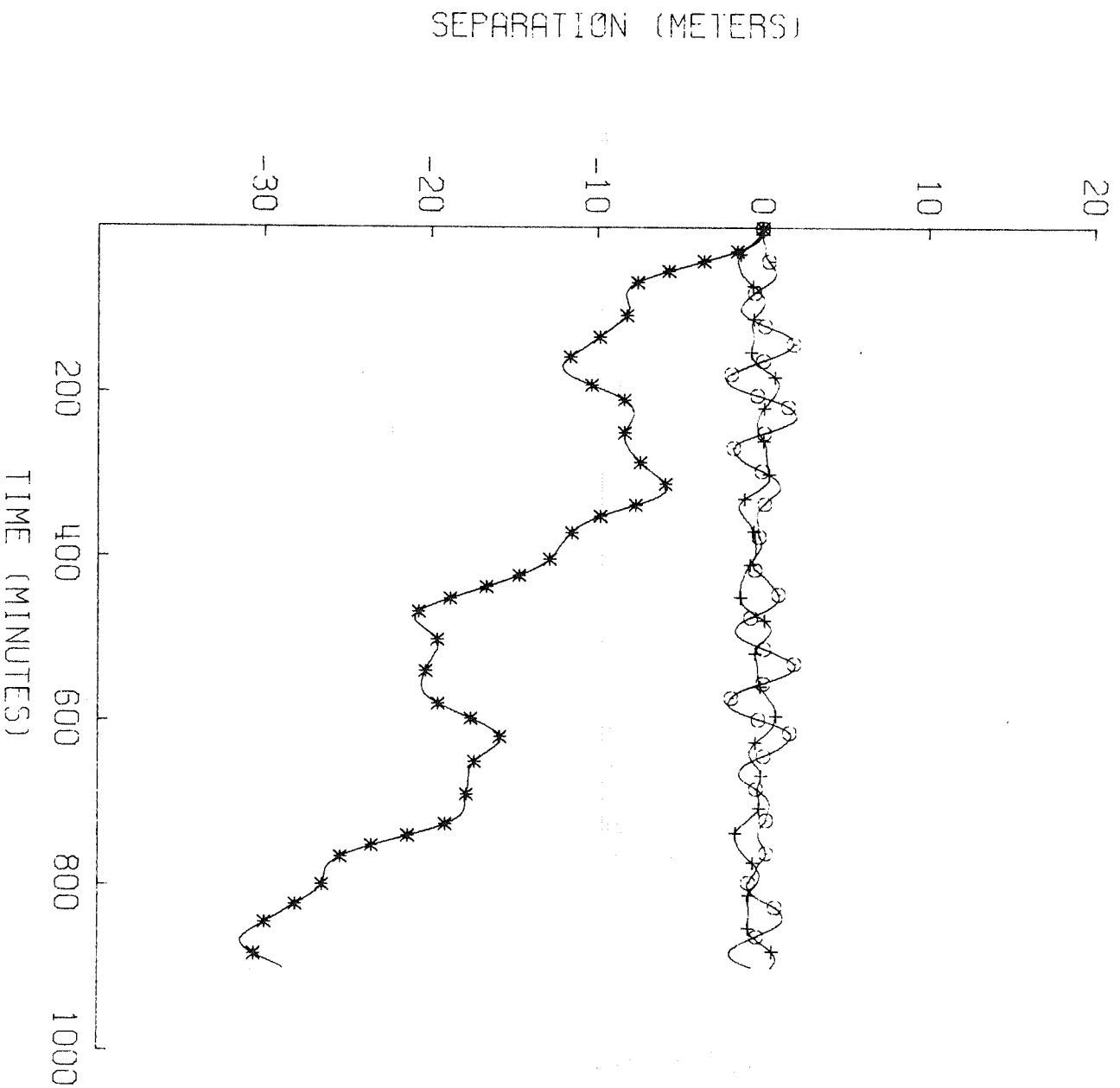
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.5535	

RUN FOR S(8 ,4) = .0568
 FACTOR USED IS 1.000000

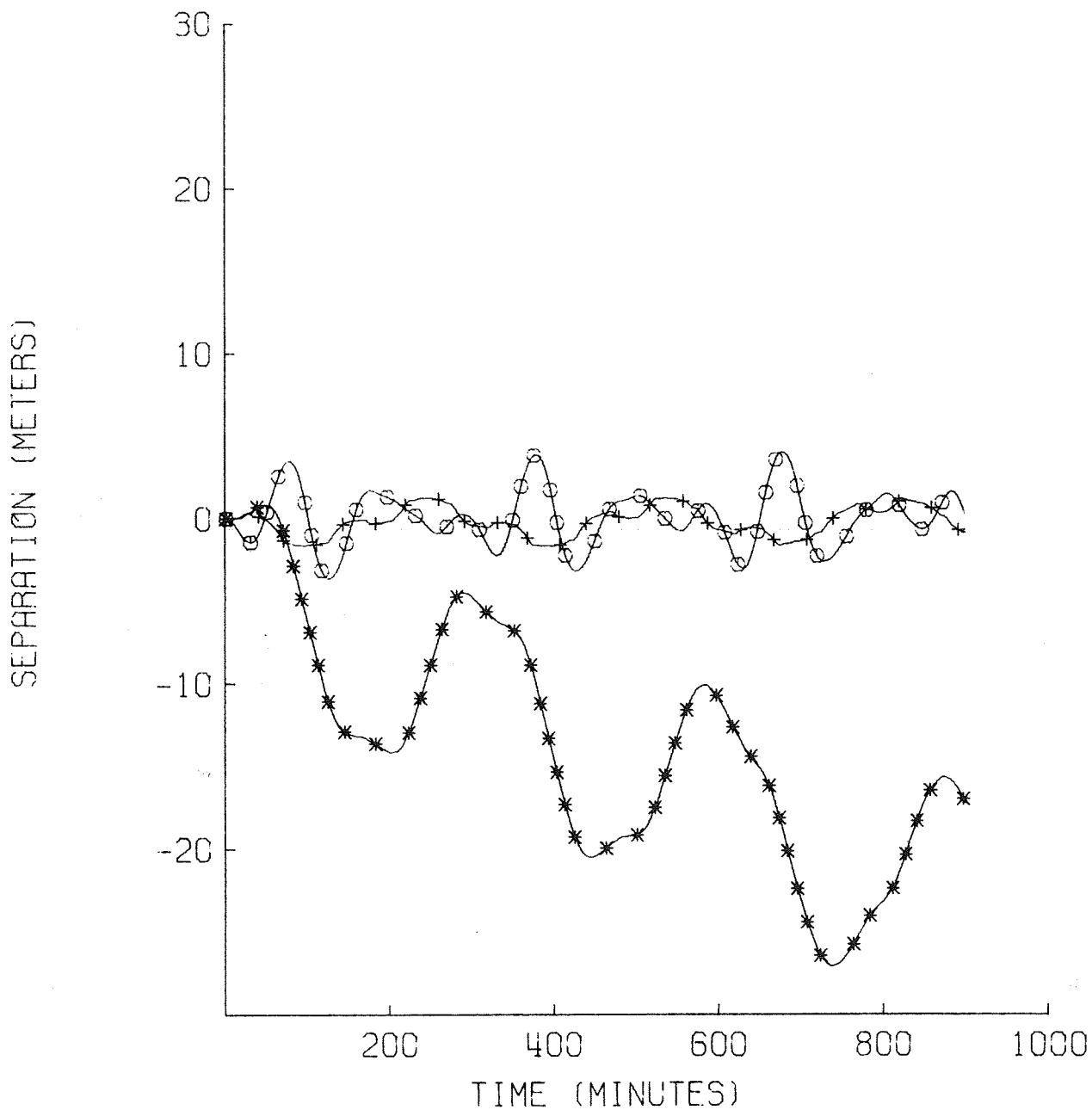
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 ,5) = -.0757
 FACTOR USED IS 1.000000

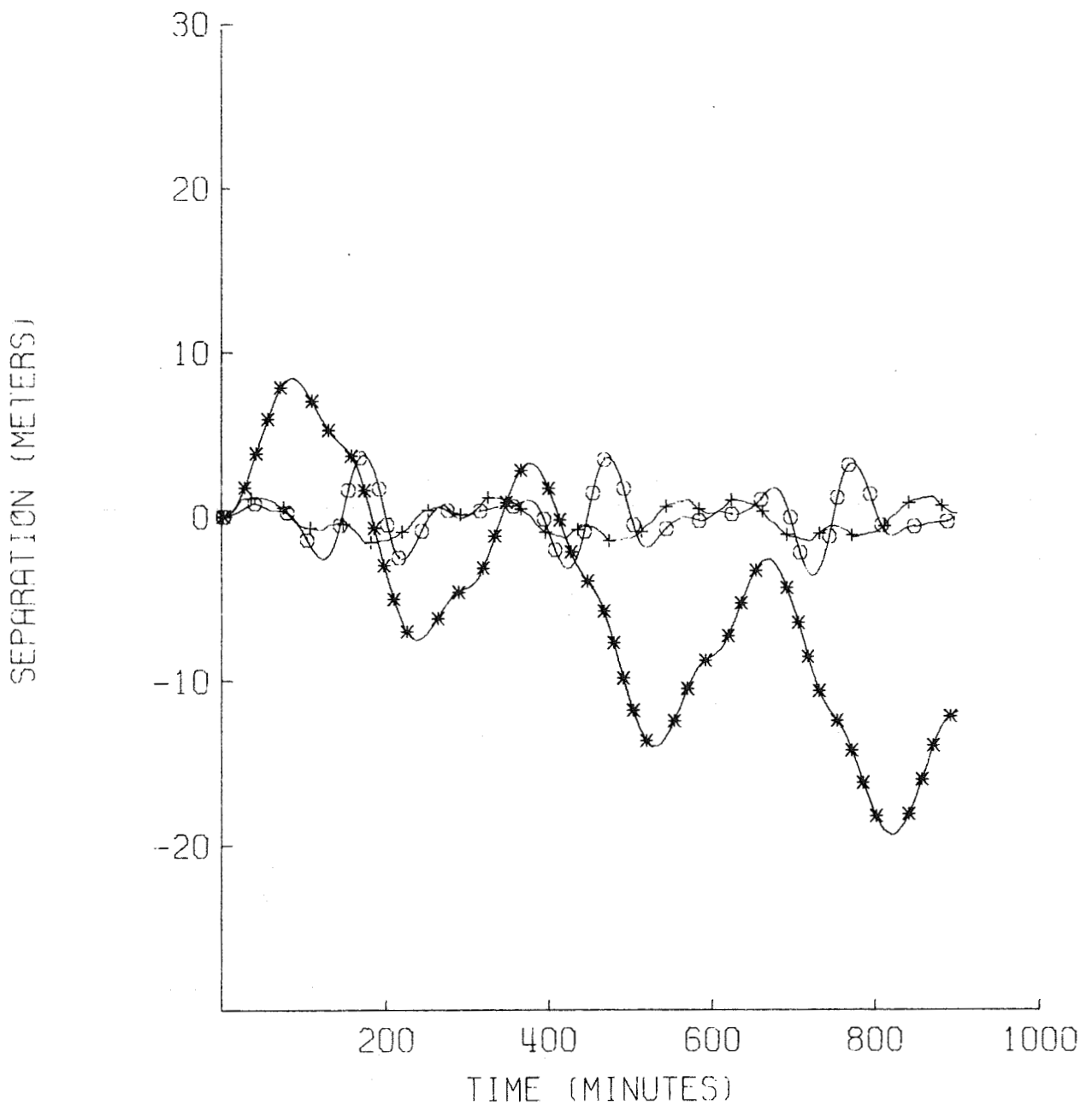
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(8 ,5) = .0702
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

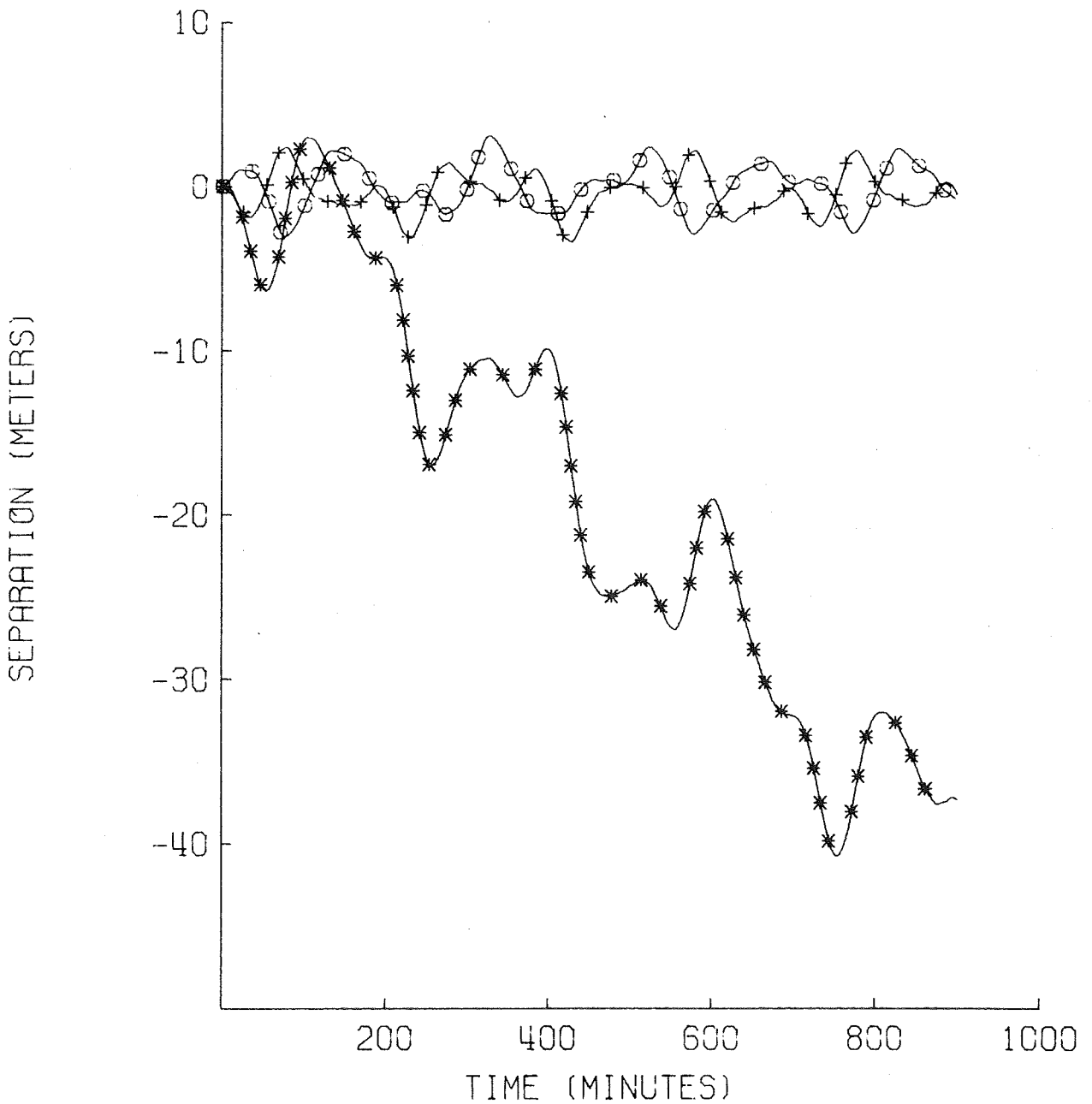
RUN FOR C(8 ,6) = -.0859

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

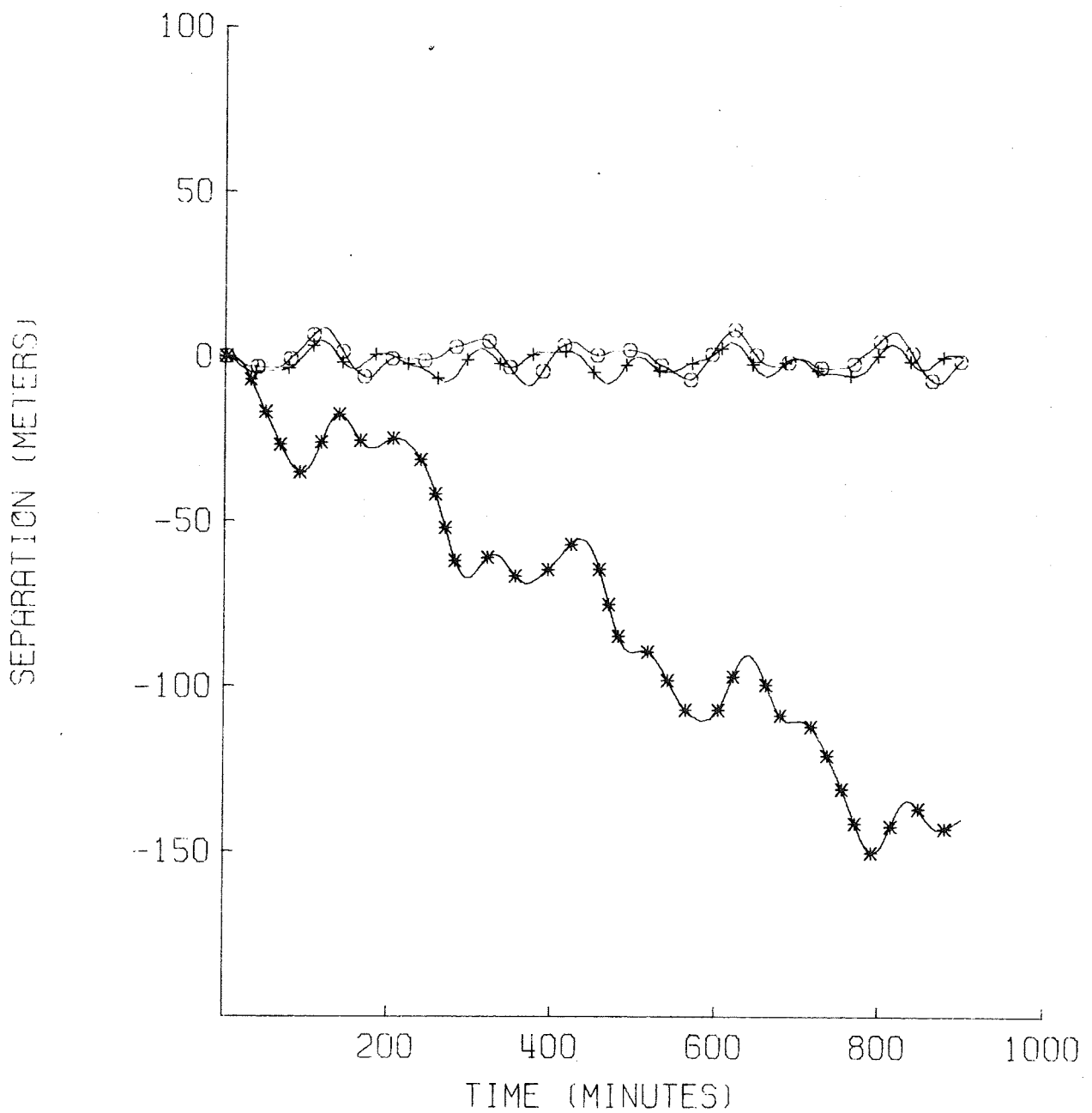
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(8 , 6) = .2170
 FACTOR USED IS 1.000000

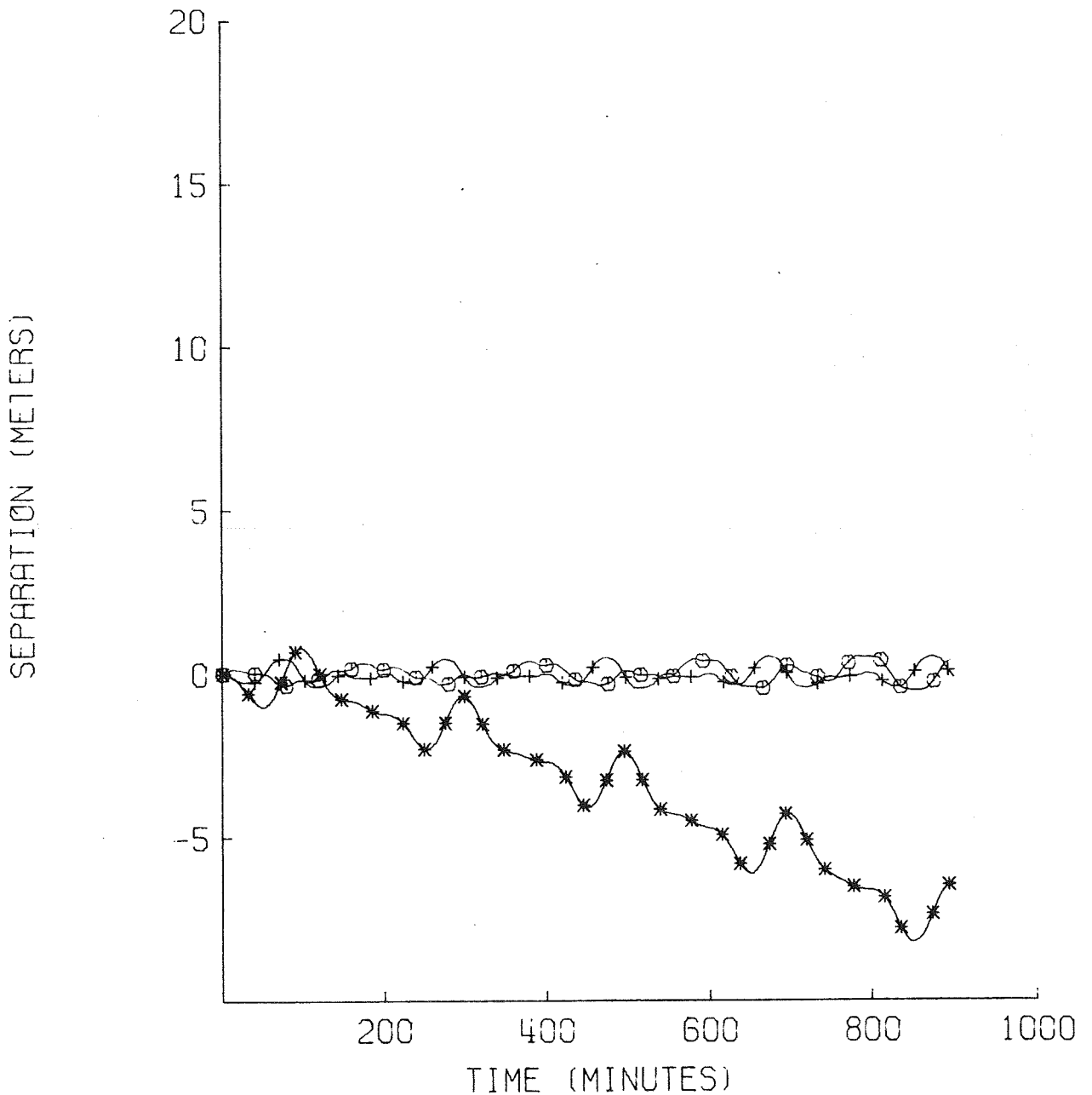
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊕) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 , 7) = .0246
 FACTOR USED IS 1.000000

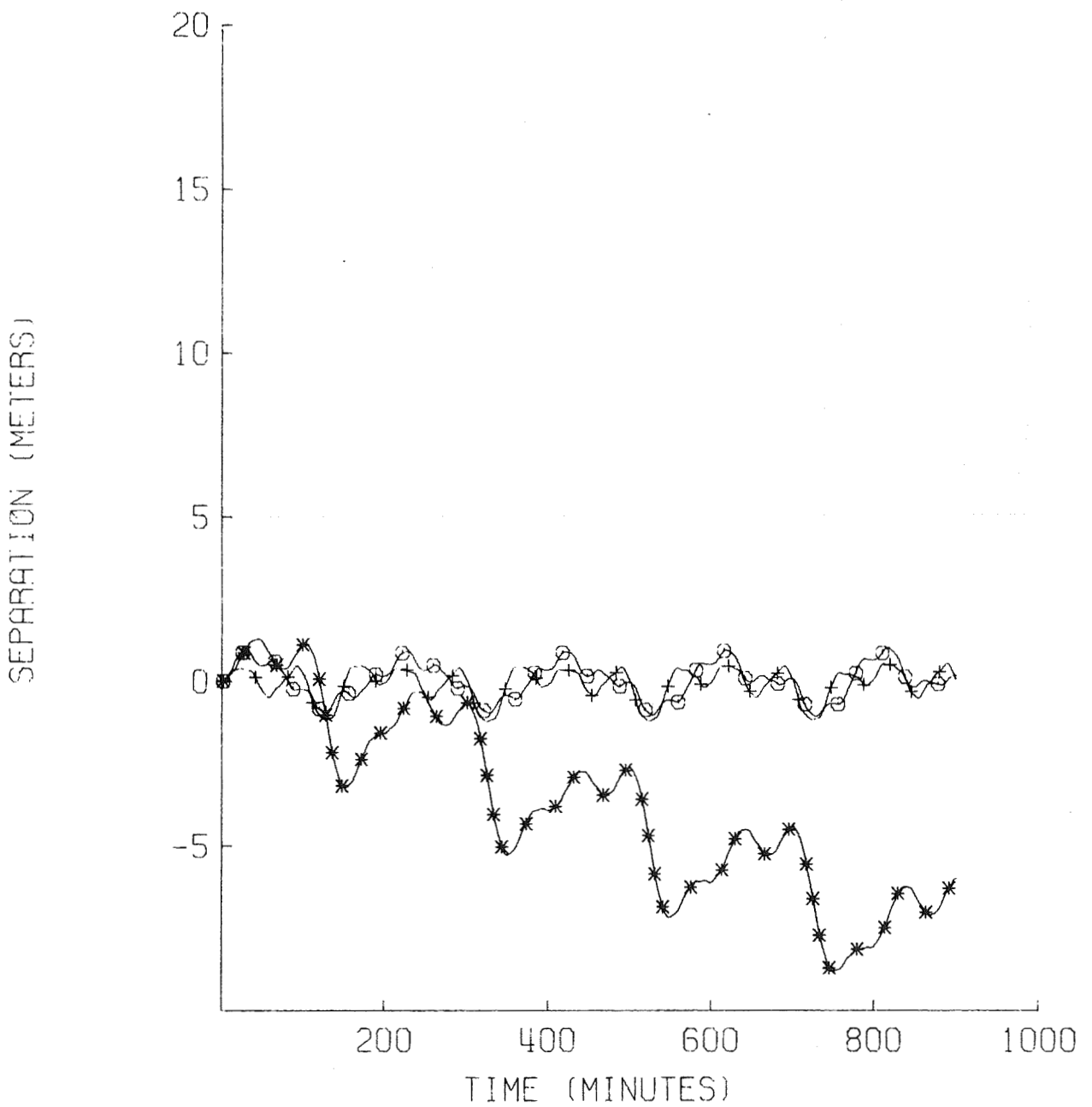
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(8 ,7) = .0668
 FACTOR USED IS 1.000000

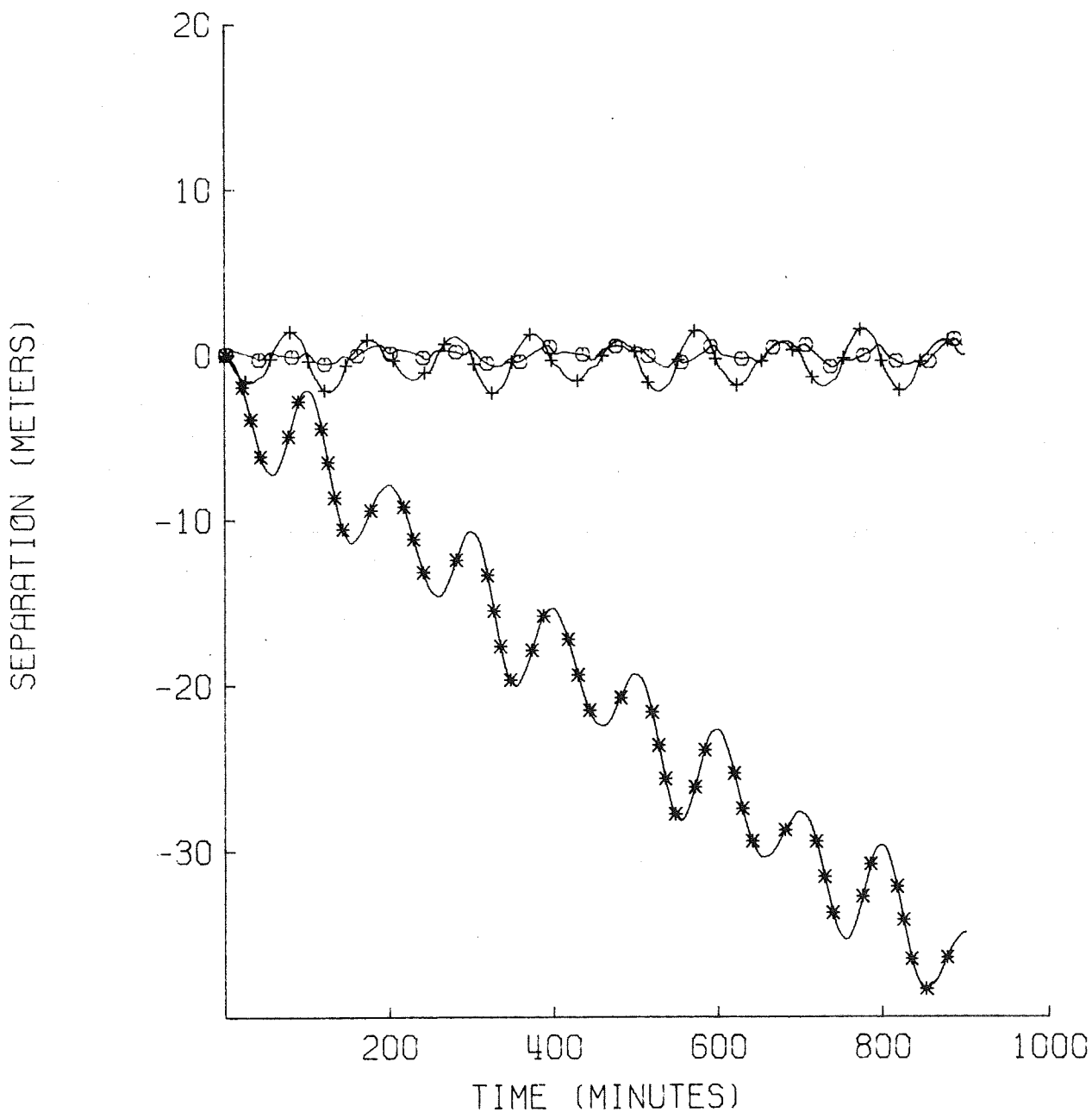
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 ,8) = -.0948
 FACTOR USED IS 1.000000

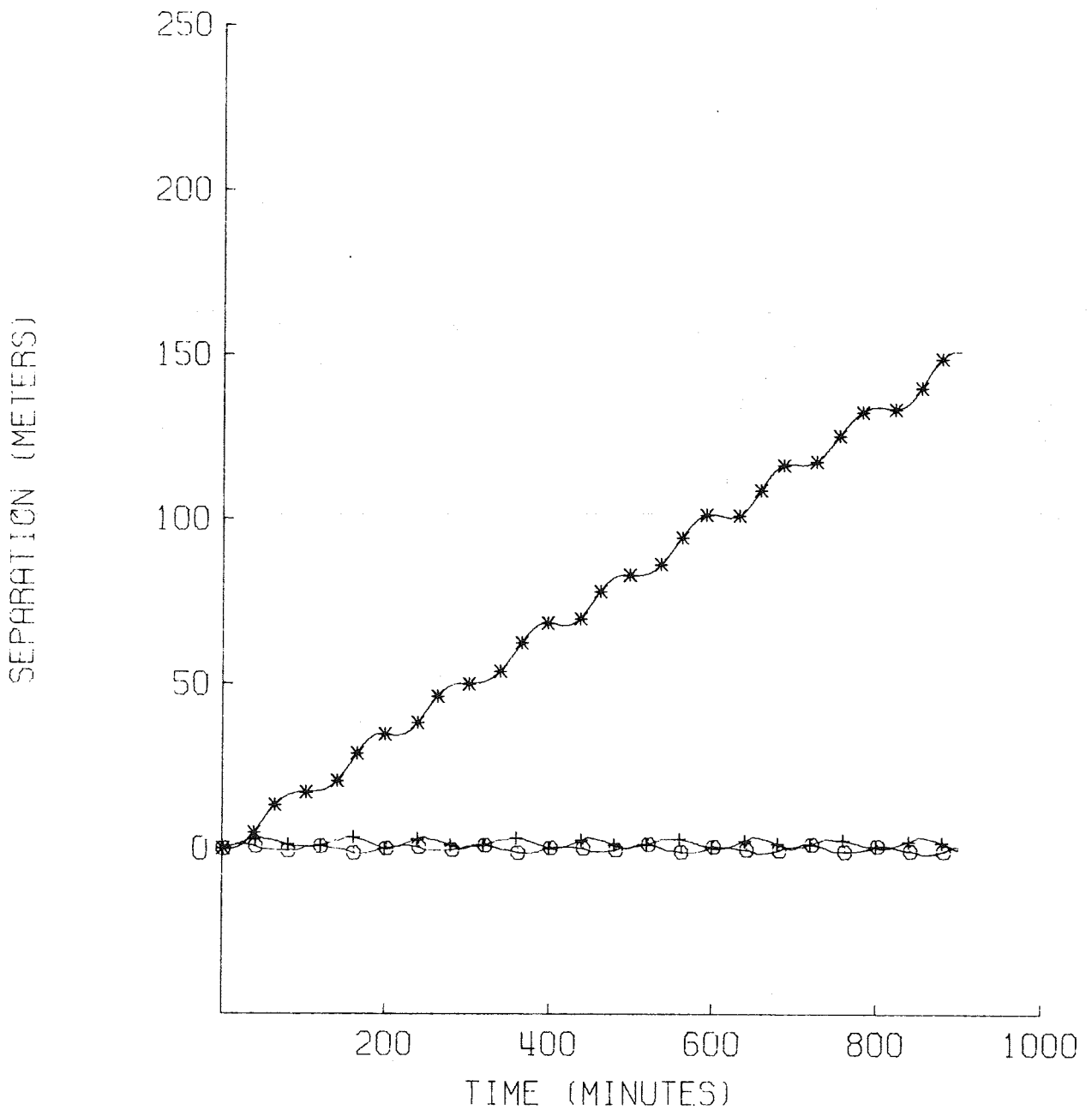
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR S(8 , 8) = -.1090
 FACTOR USED IS 1.000000

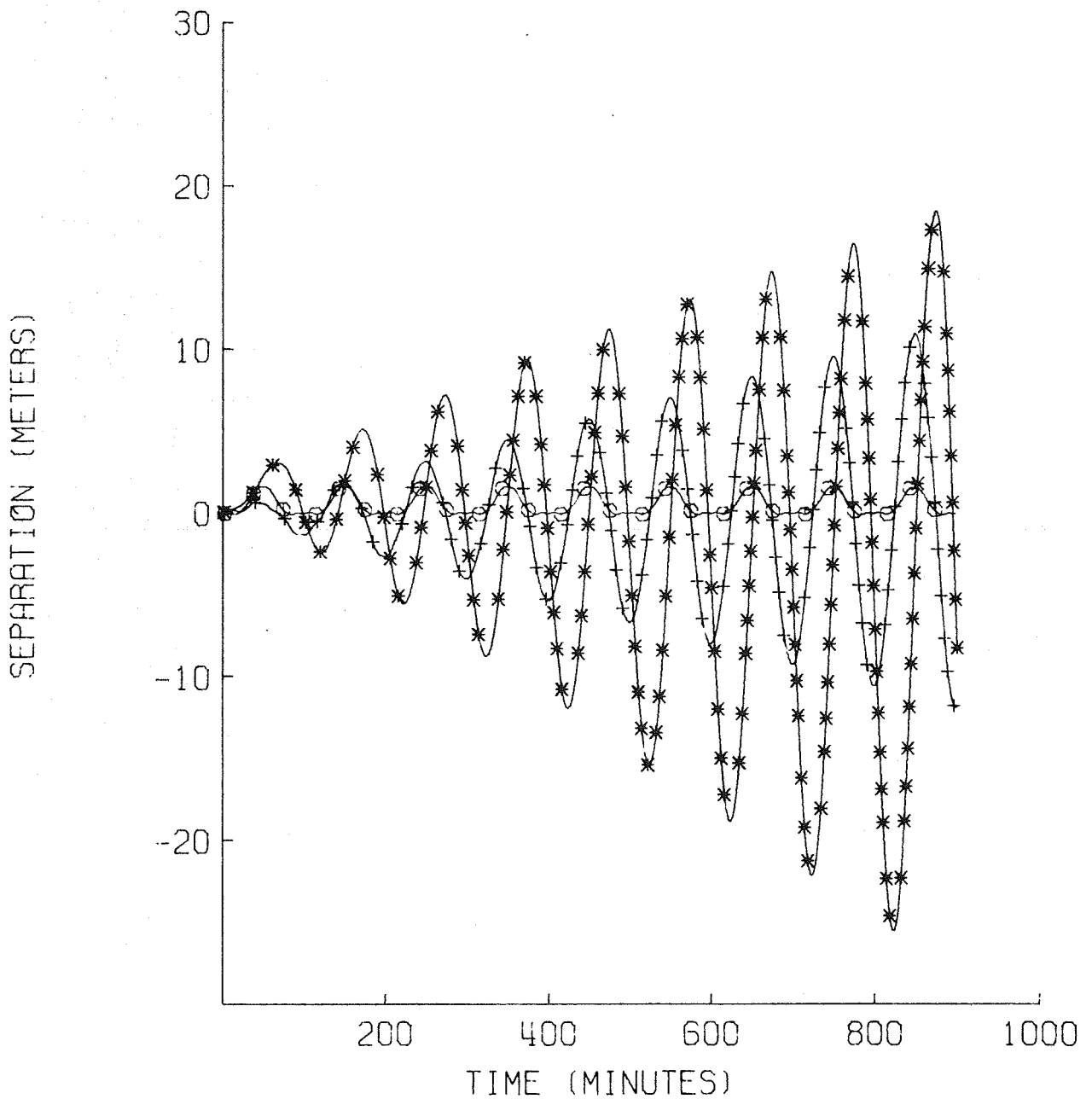
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 ,0) = .0689
 FACTOR USED IS 1.000000

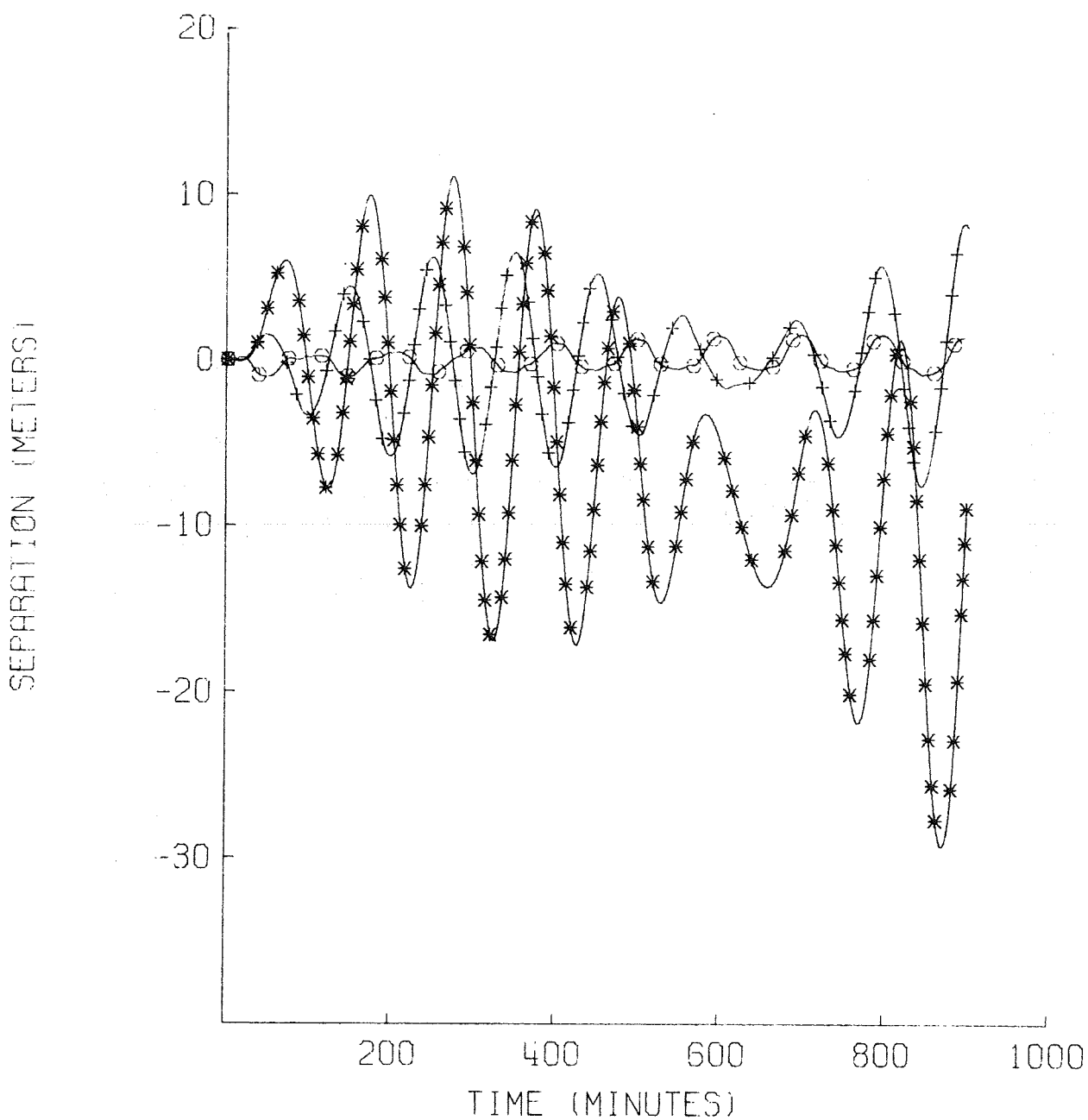
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 , 1) = .1598
 FACTOR USED IS 1.000000

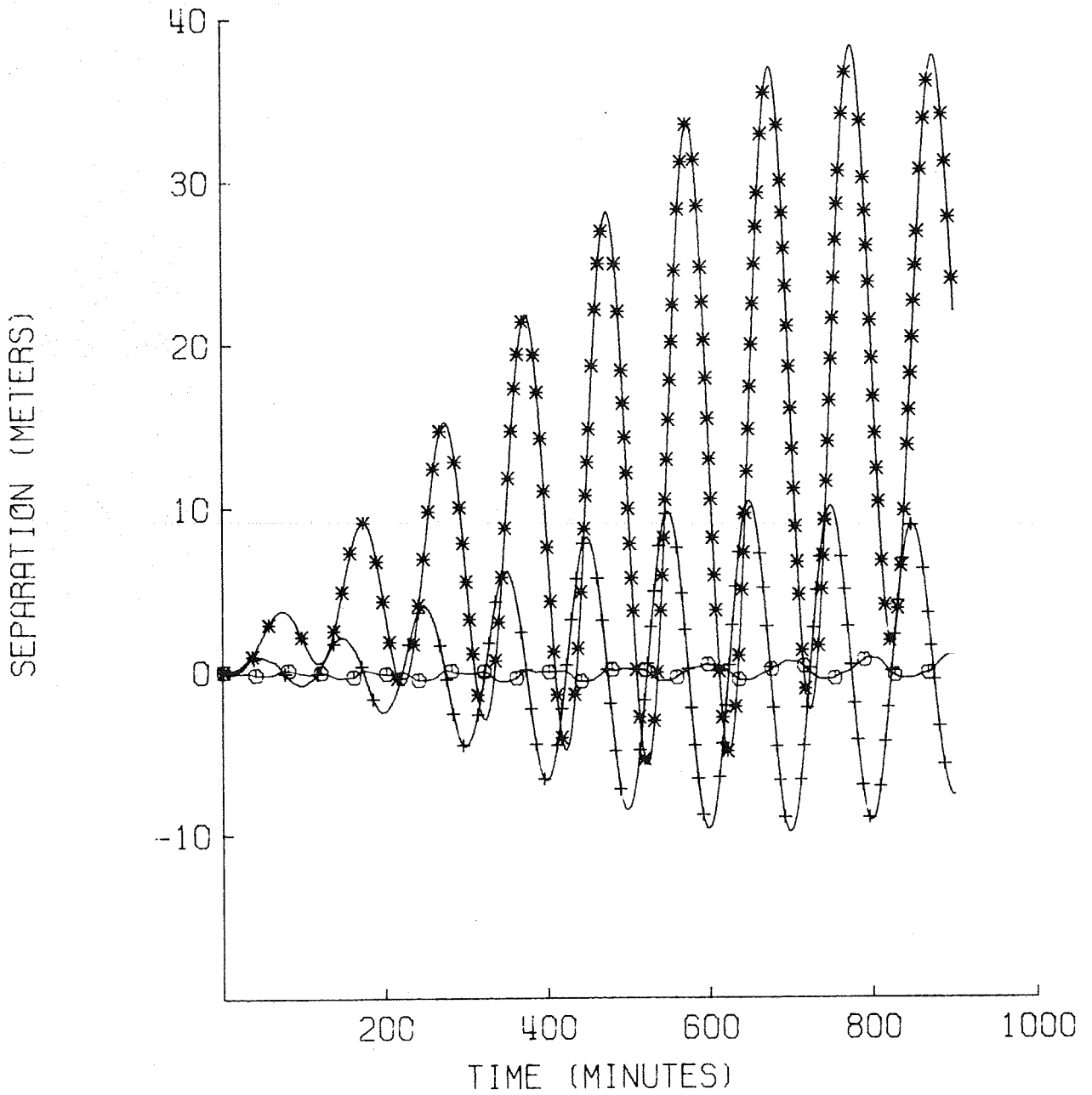
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 , 1) = -.0966
 FACTOR USED IS 1.000000

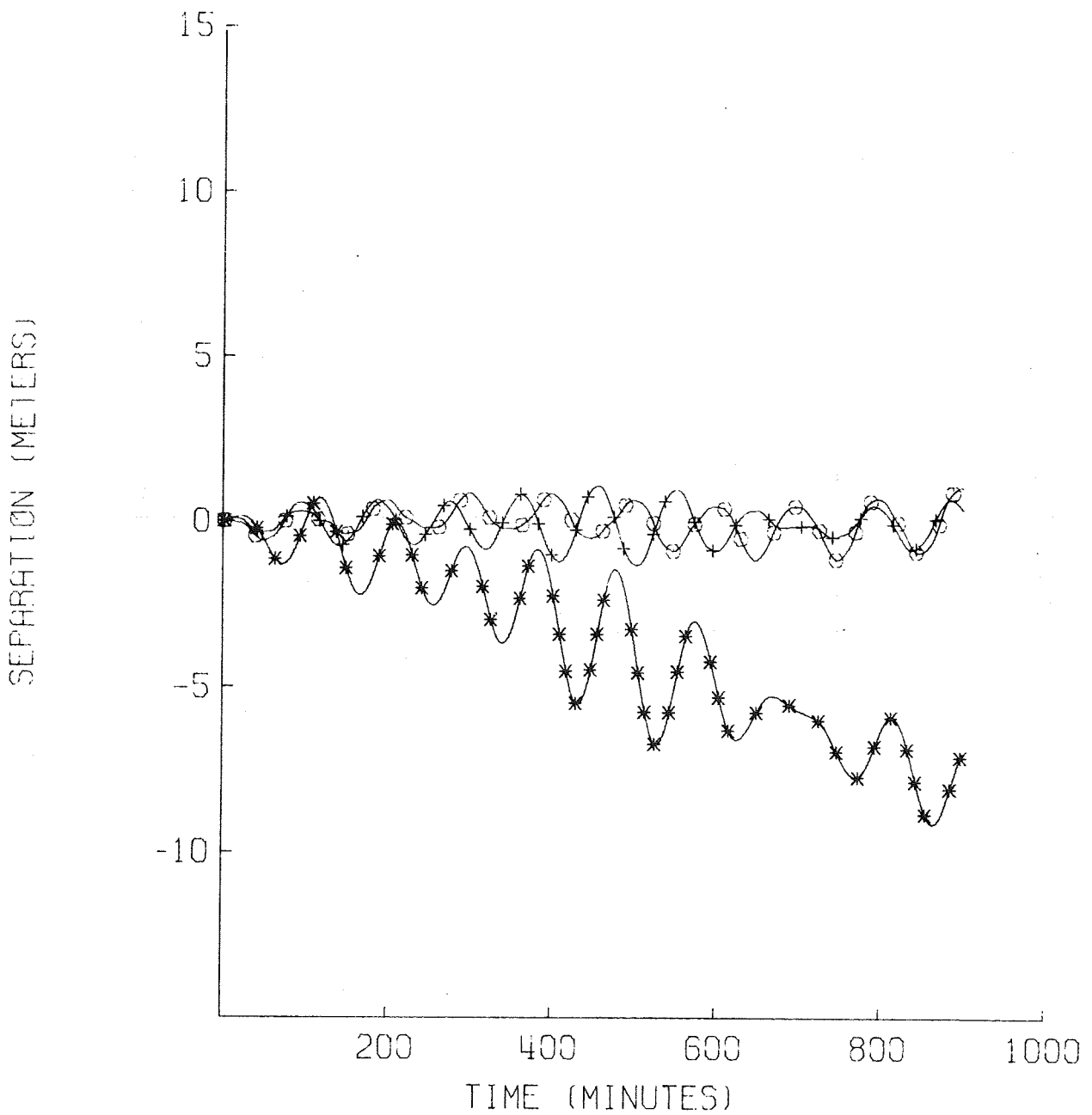
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 ,2) = .0418
 FACTOR USED IS 1.000000

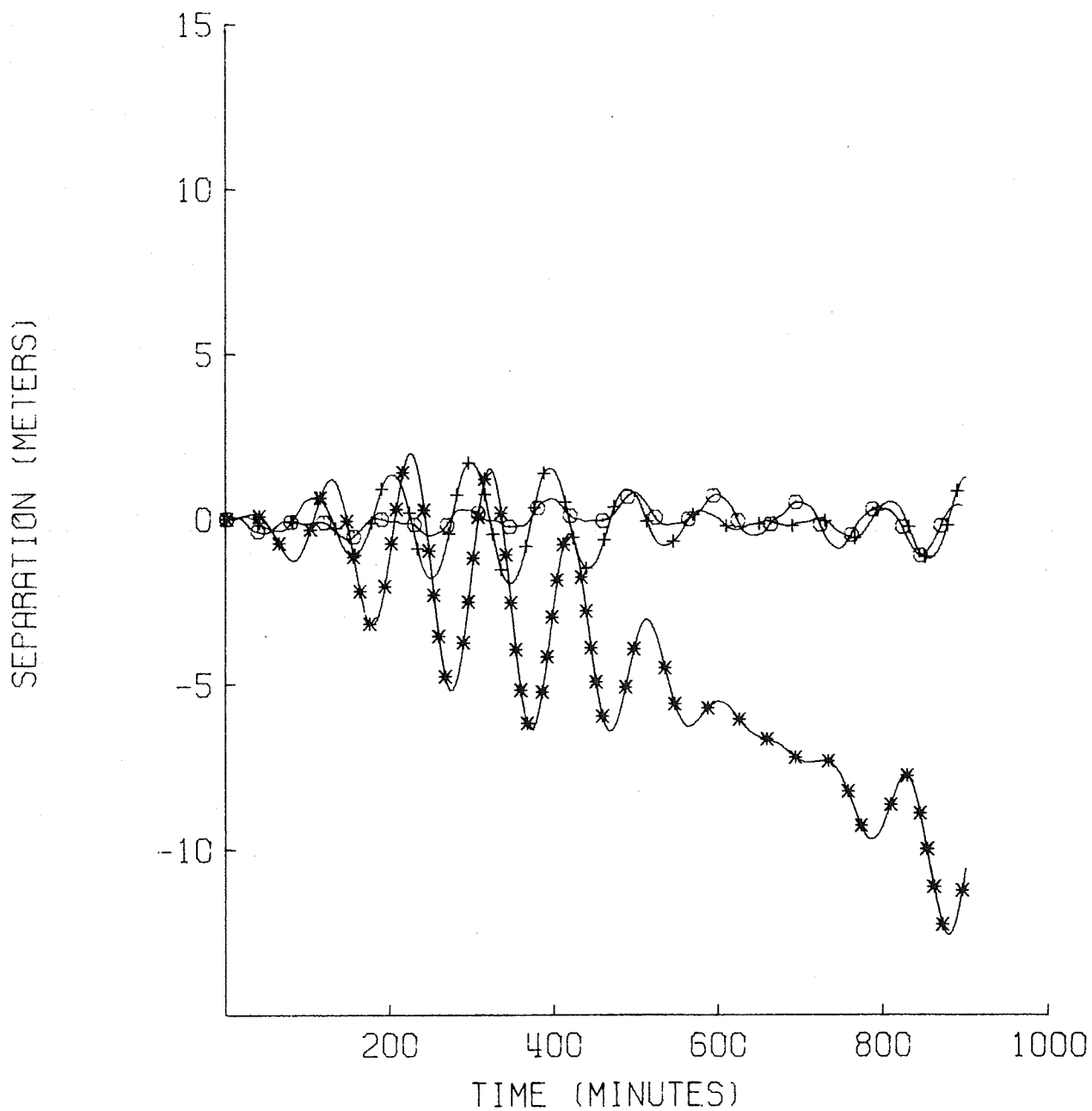
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 , 2) = -.0452
 FACTOR USED IS 1.000000

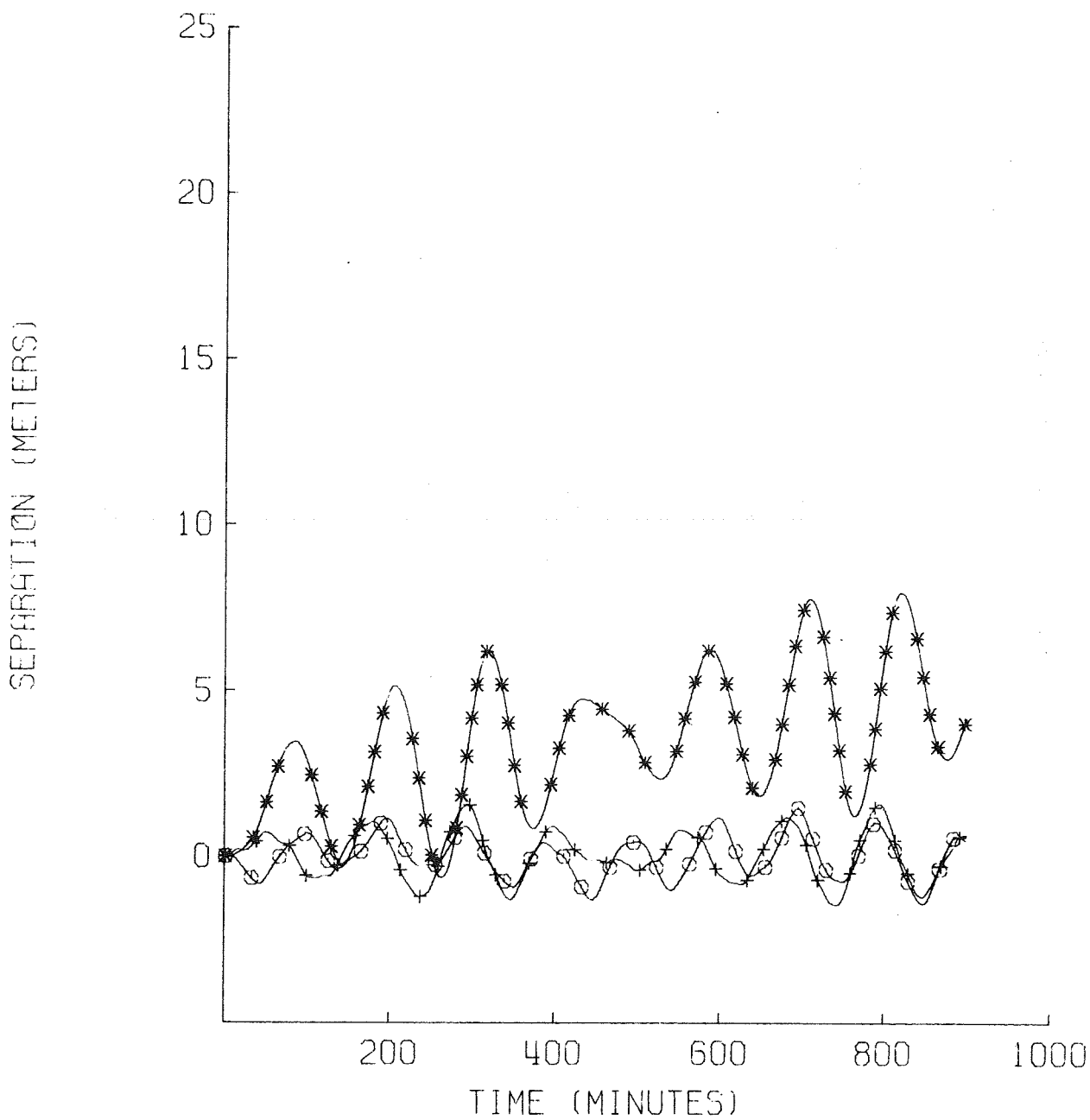
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR C(9 ,3) = -.0575
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

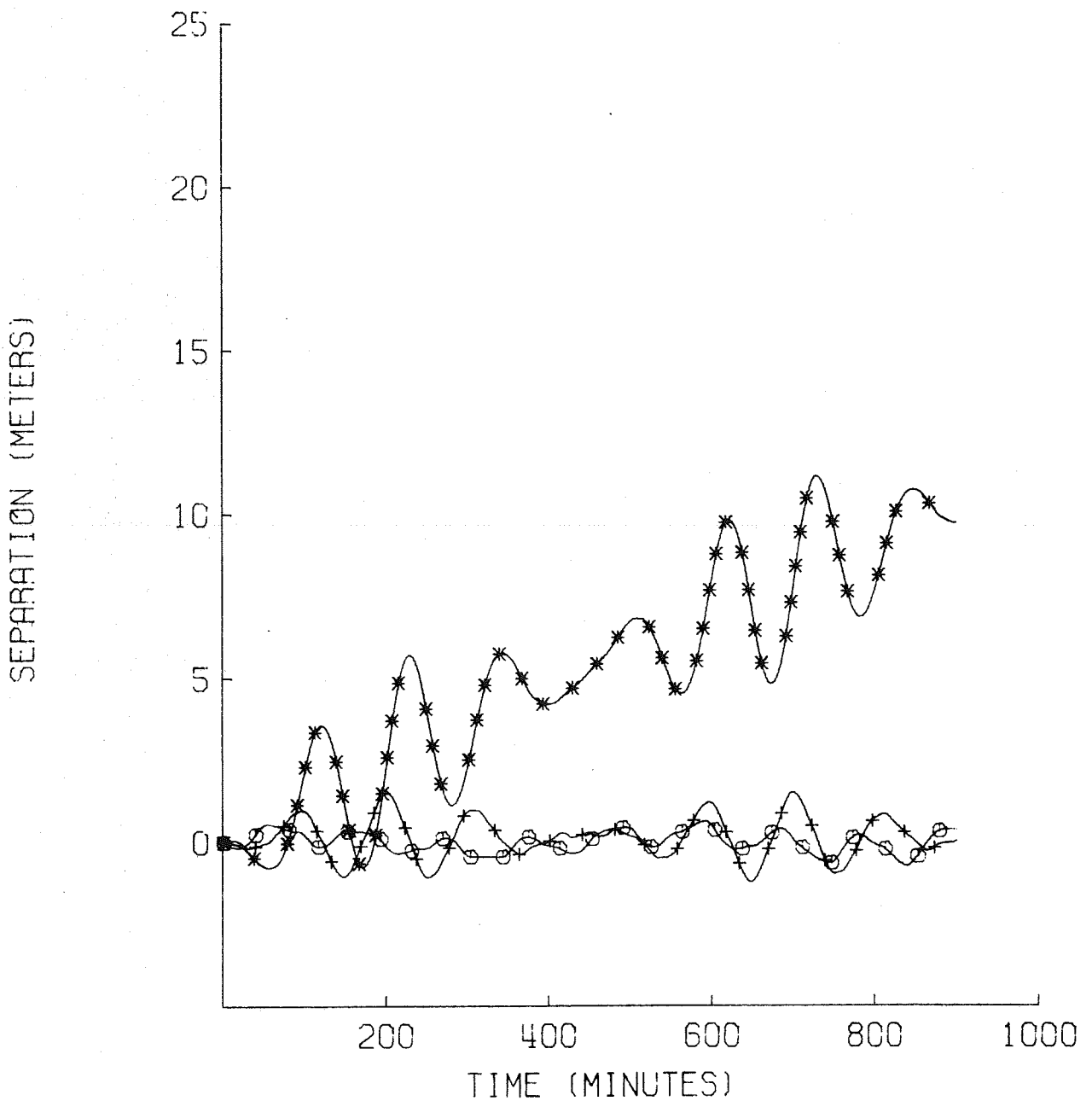


M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 , 3) = -.0415

FACTOR USED IS 1.000000

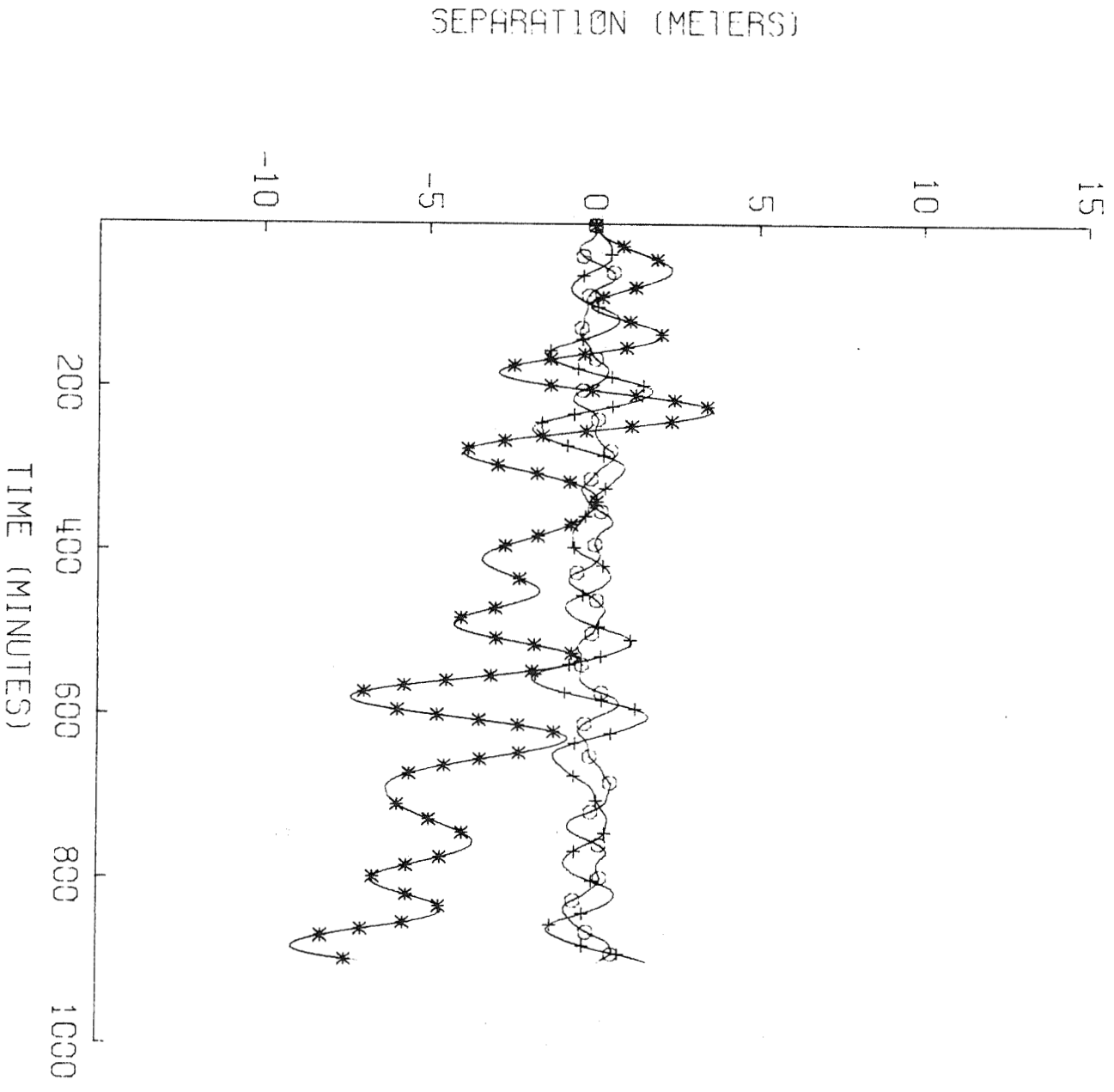
- (*) IN-TRACK
- (+) PRINCIPAL NORMAL CROSS-TRACK
- (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7135.6535

RUN FOR C(9 , 4) = .0502
FACTOR USED IS 1.000000

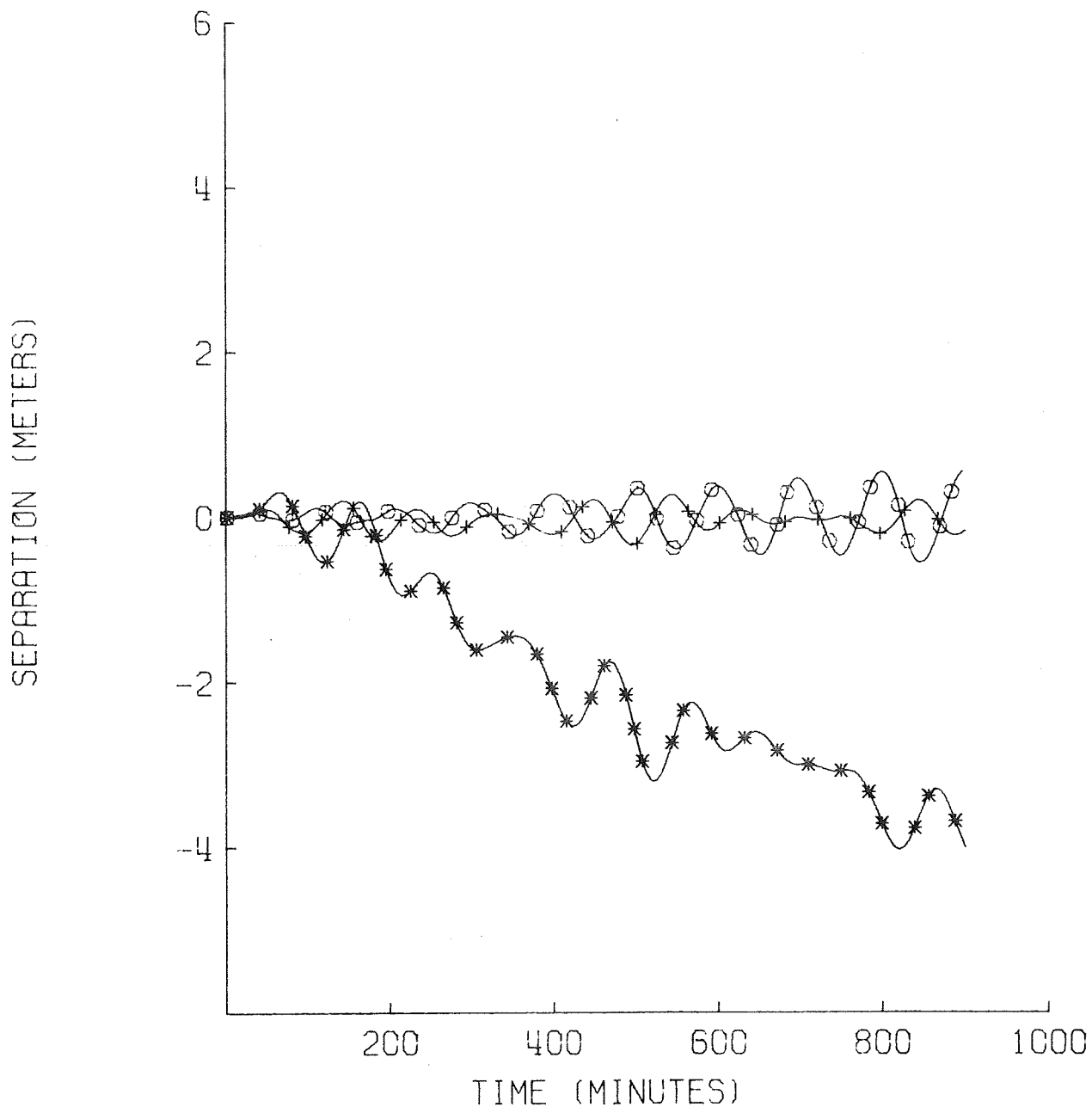
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊕) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 ,4) = -.0060
 FACTOR USED IS 1.000000

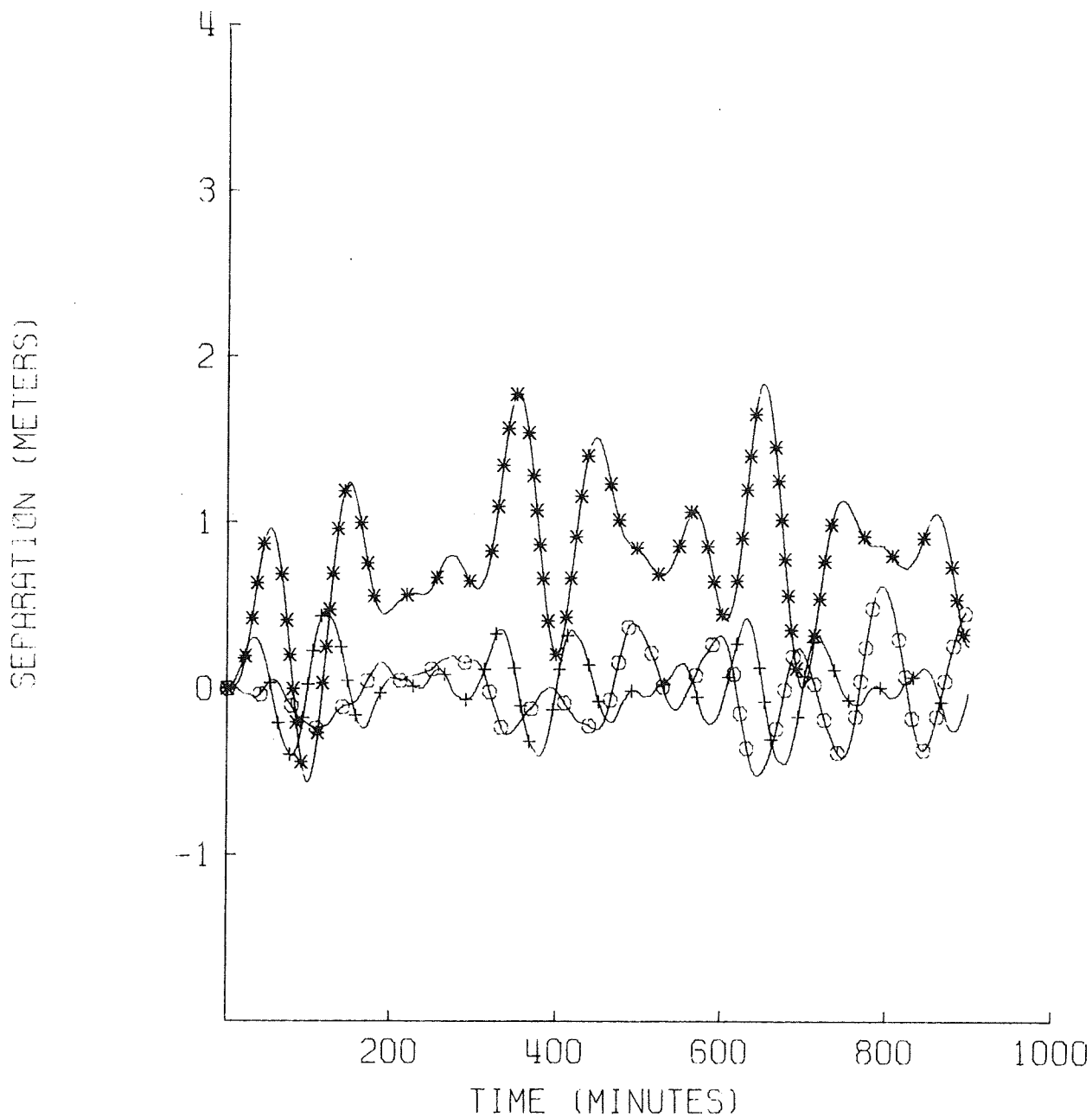
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(9 ,5) = -.0135
FACTOR USED IS 1.000000

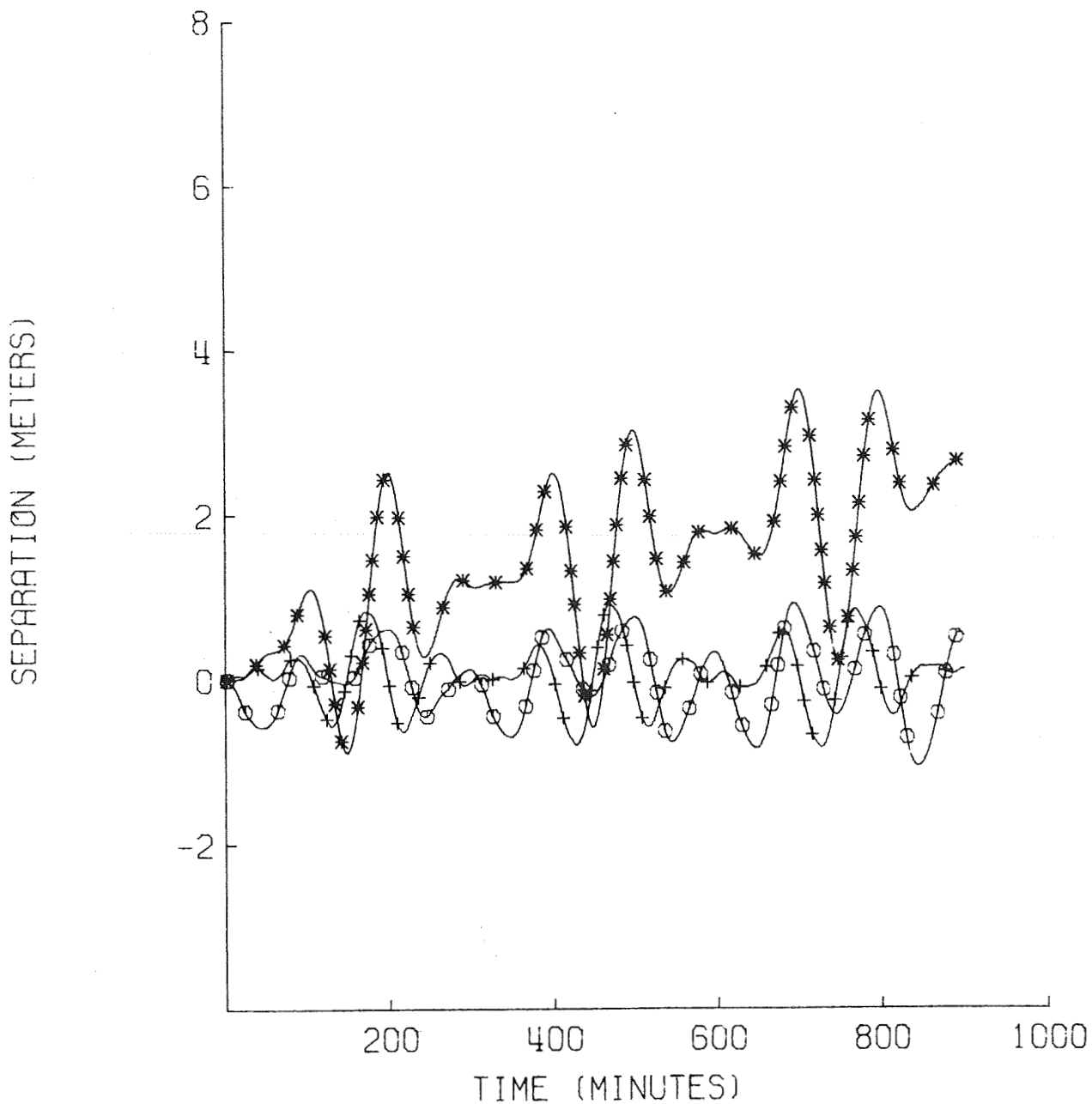
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 .5) = -.0241
 FACTOR USED IS 1.000000

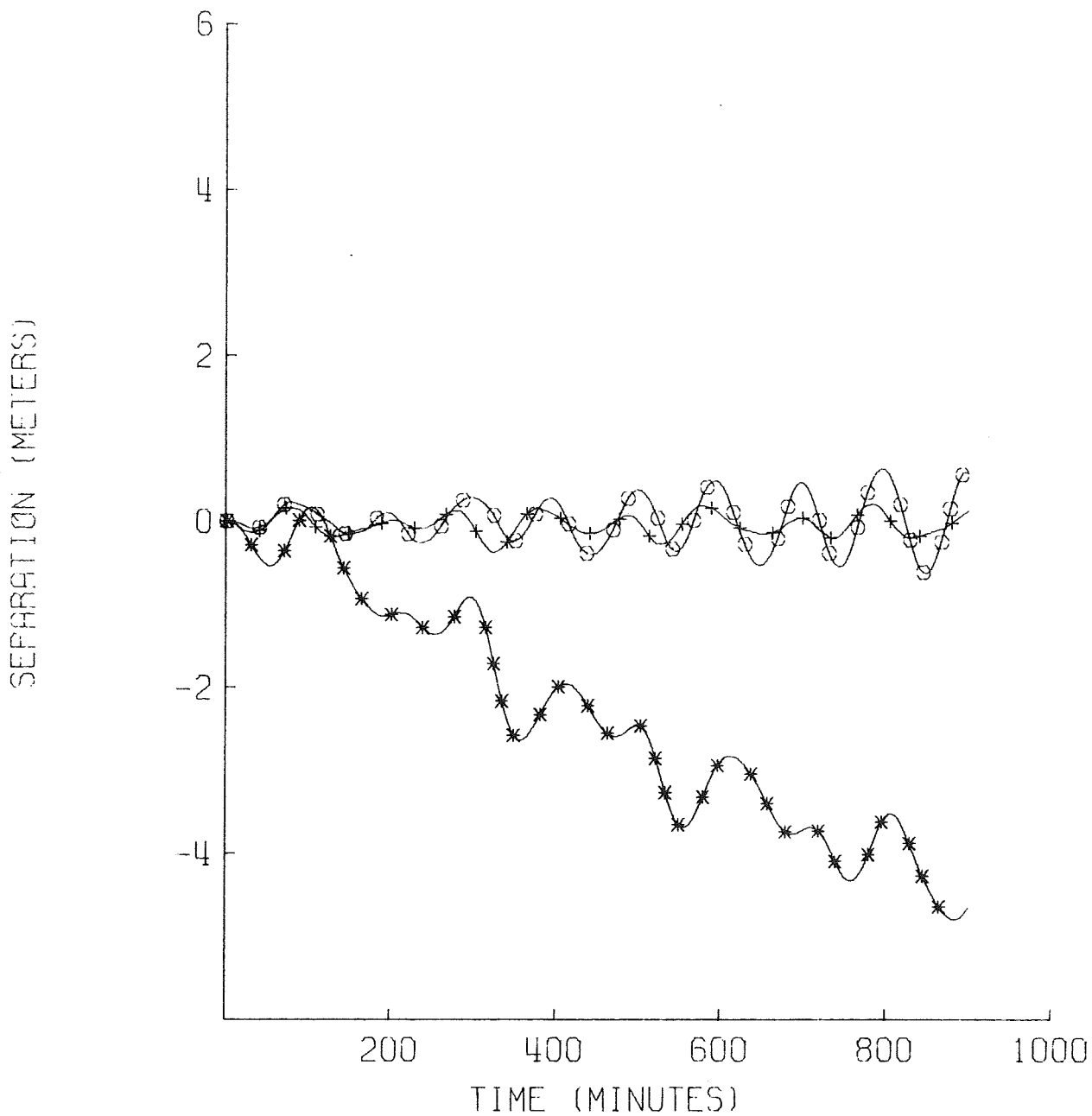
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 ,6) = -.0074
 FACTOR USED IS 1.000000

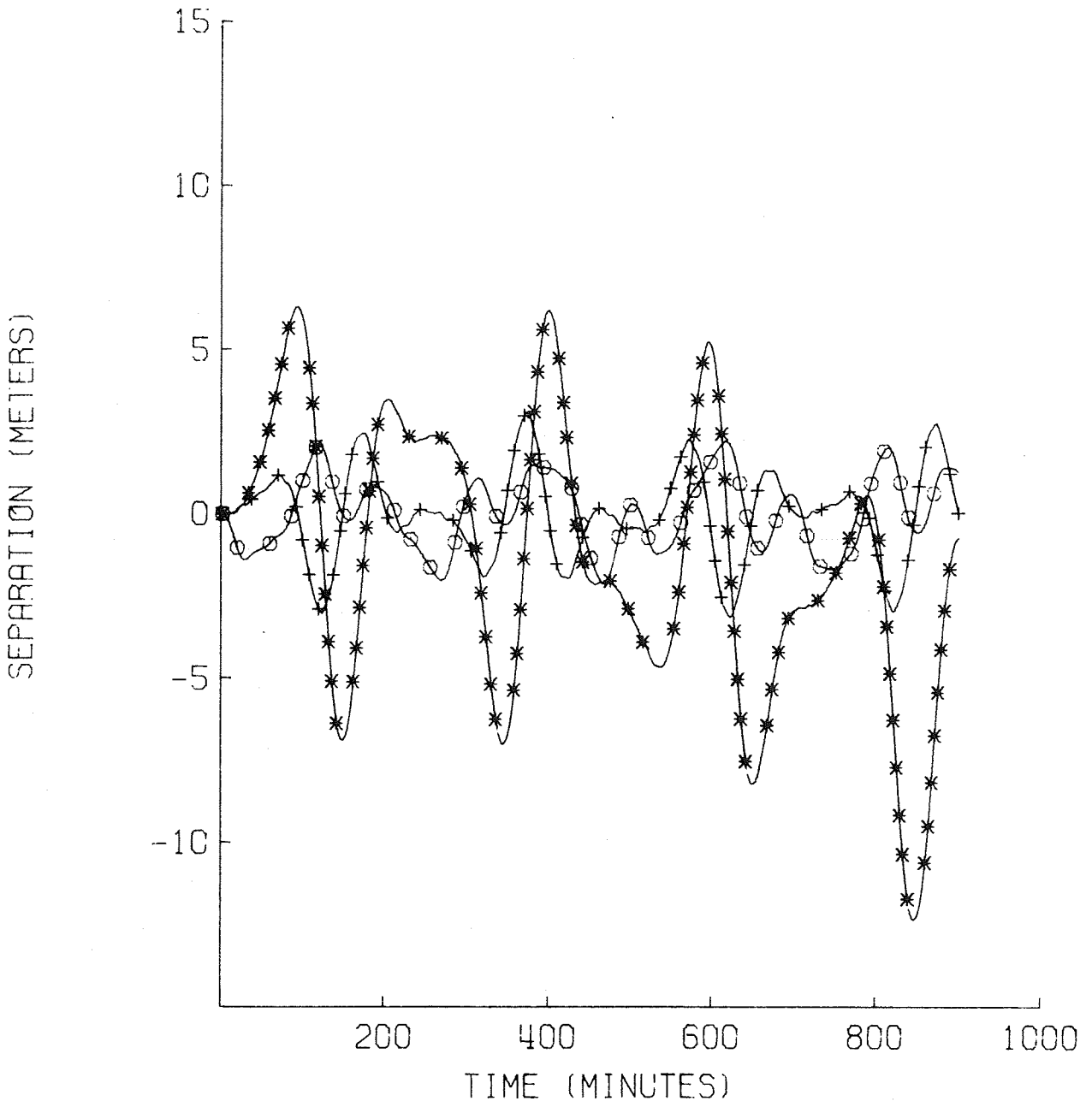
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 ,6) = .0812
 FACTOR USED IS 1.000000

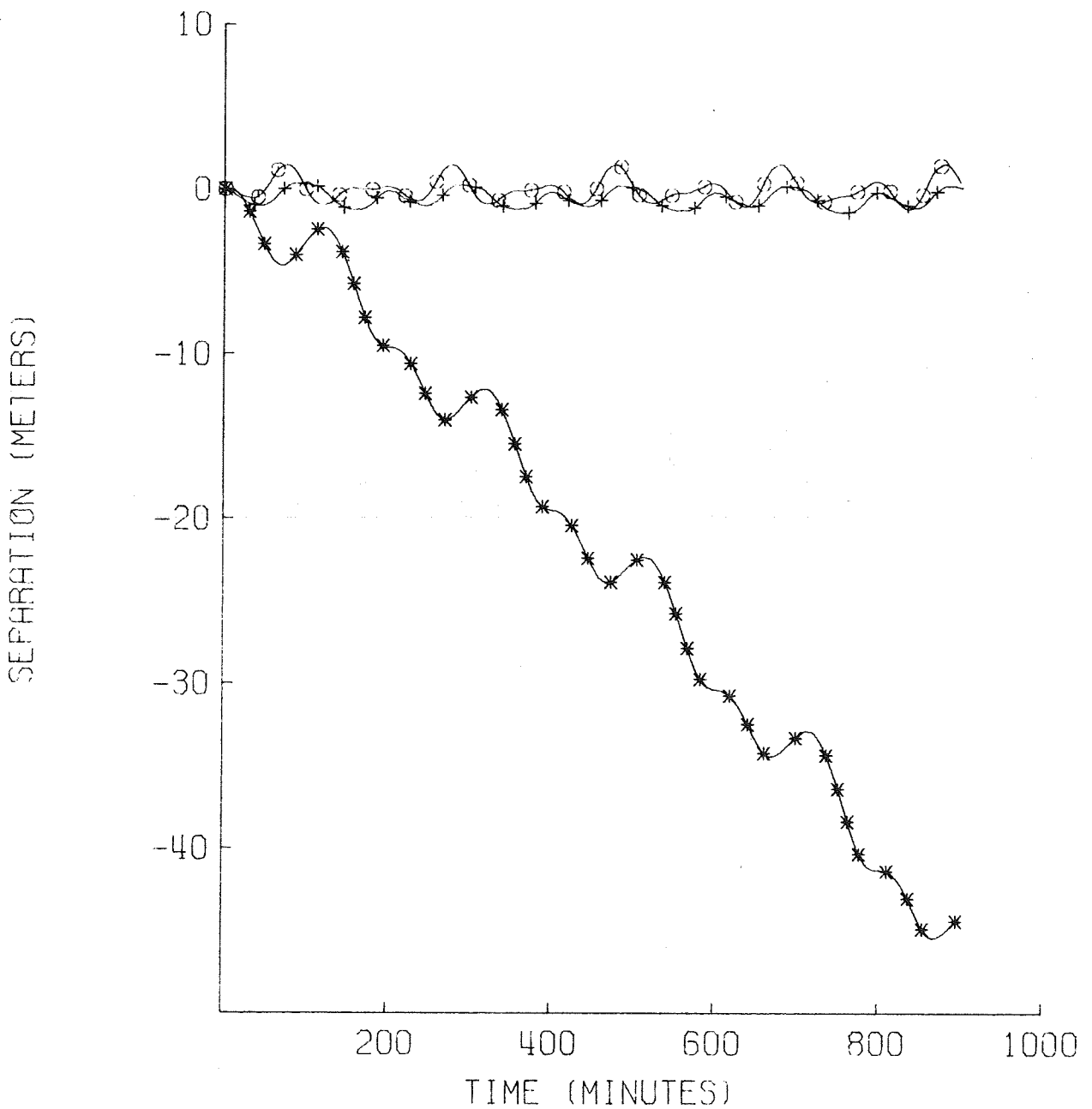
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 .7) = .0386
 FACTOR USED IS 1.000000

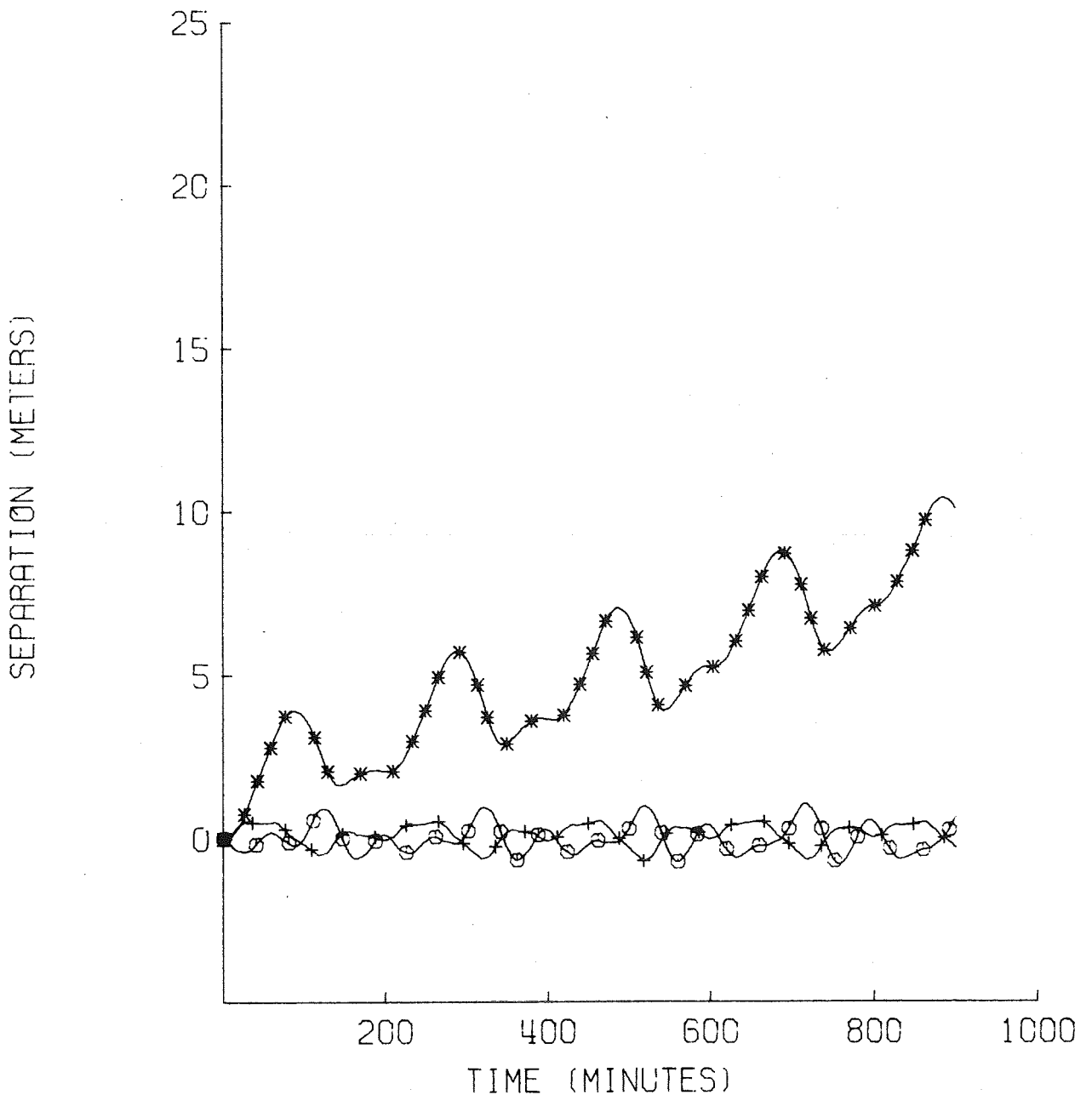
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 , 7) = -.0343
 FACTOR USED IS 1.000000

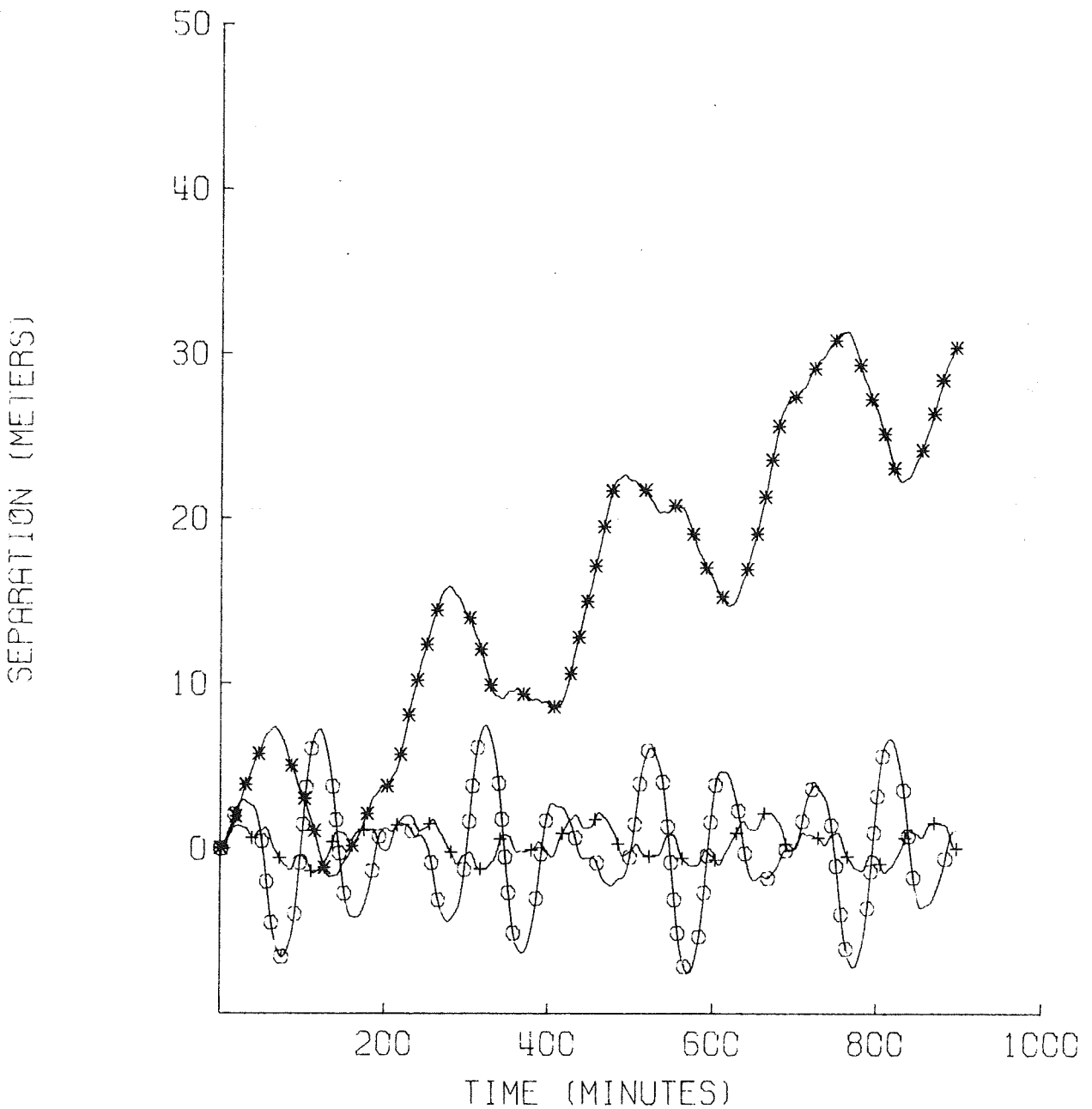
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 , 8) = .2436
 FACTOR USED IS 1.000000

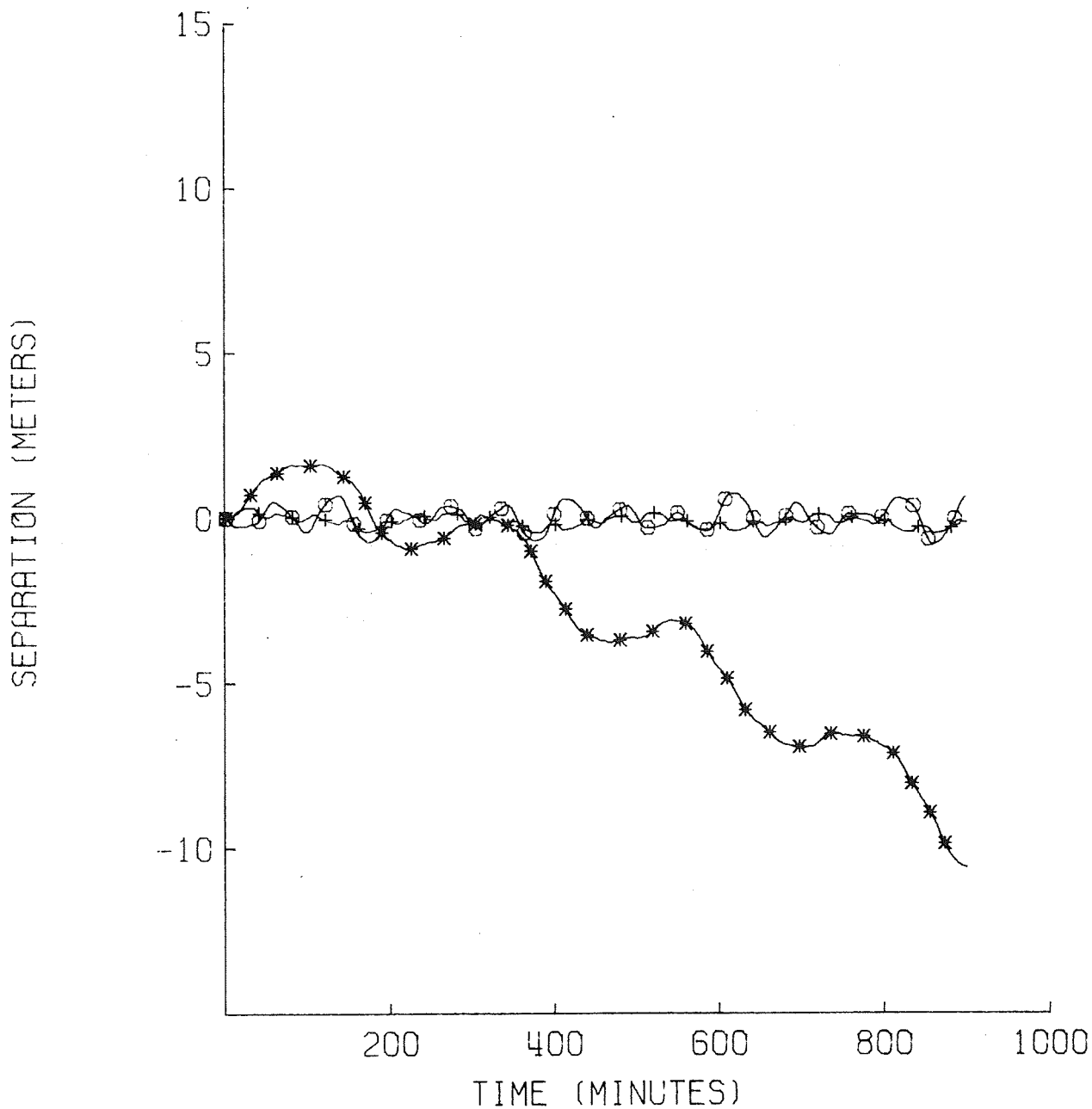
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 ,8) = .0445
 FACTOR USED IS 1.000000

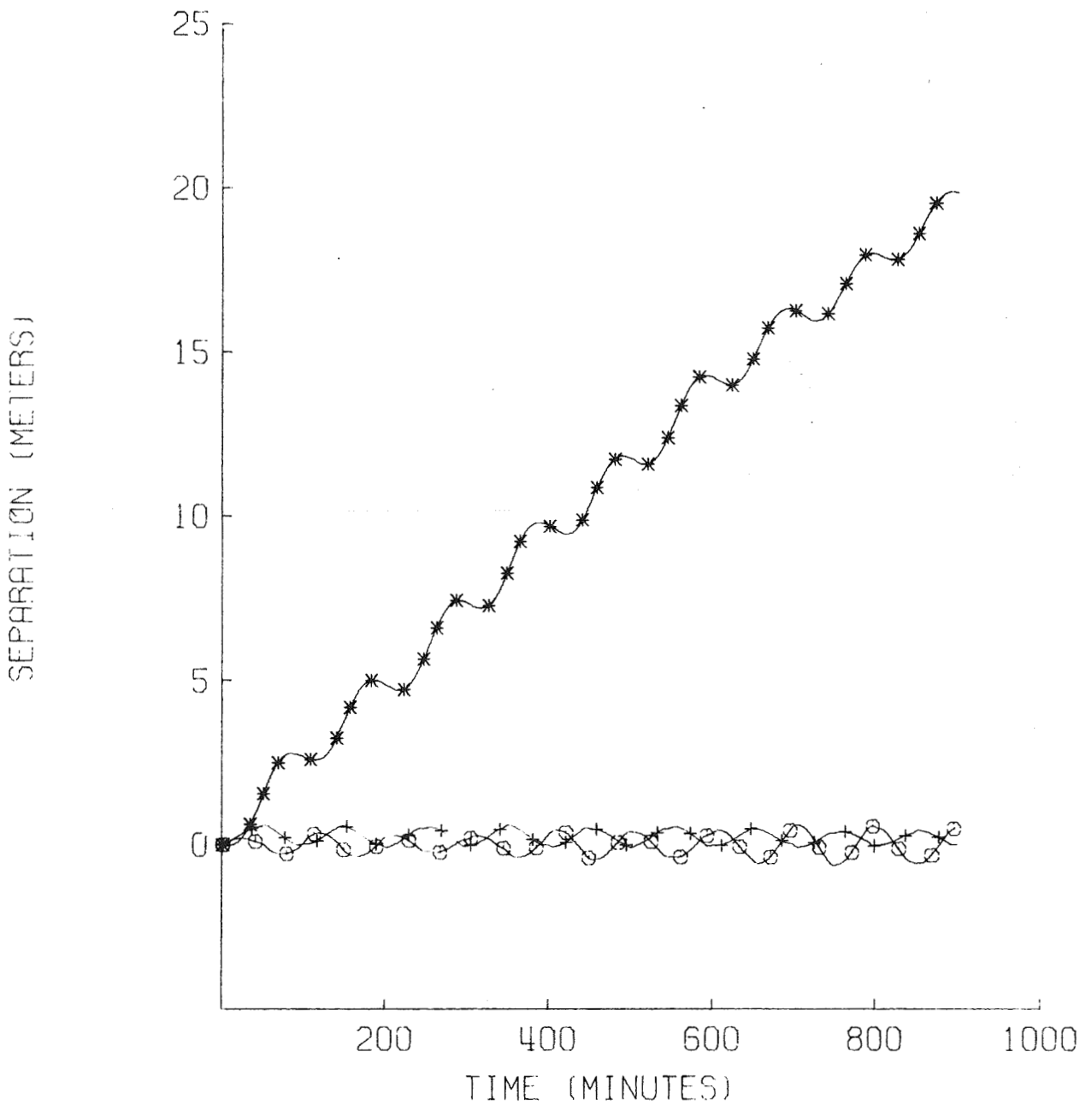
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 .9) = -.0186
 FACTOR USED IS 1.000000

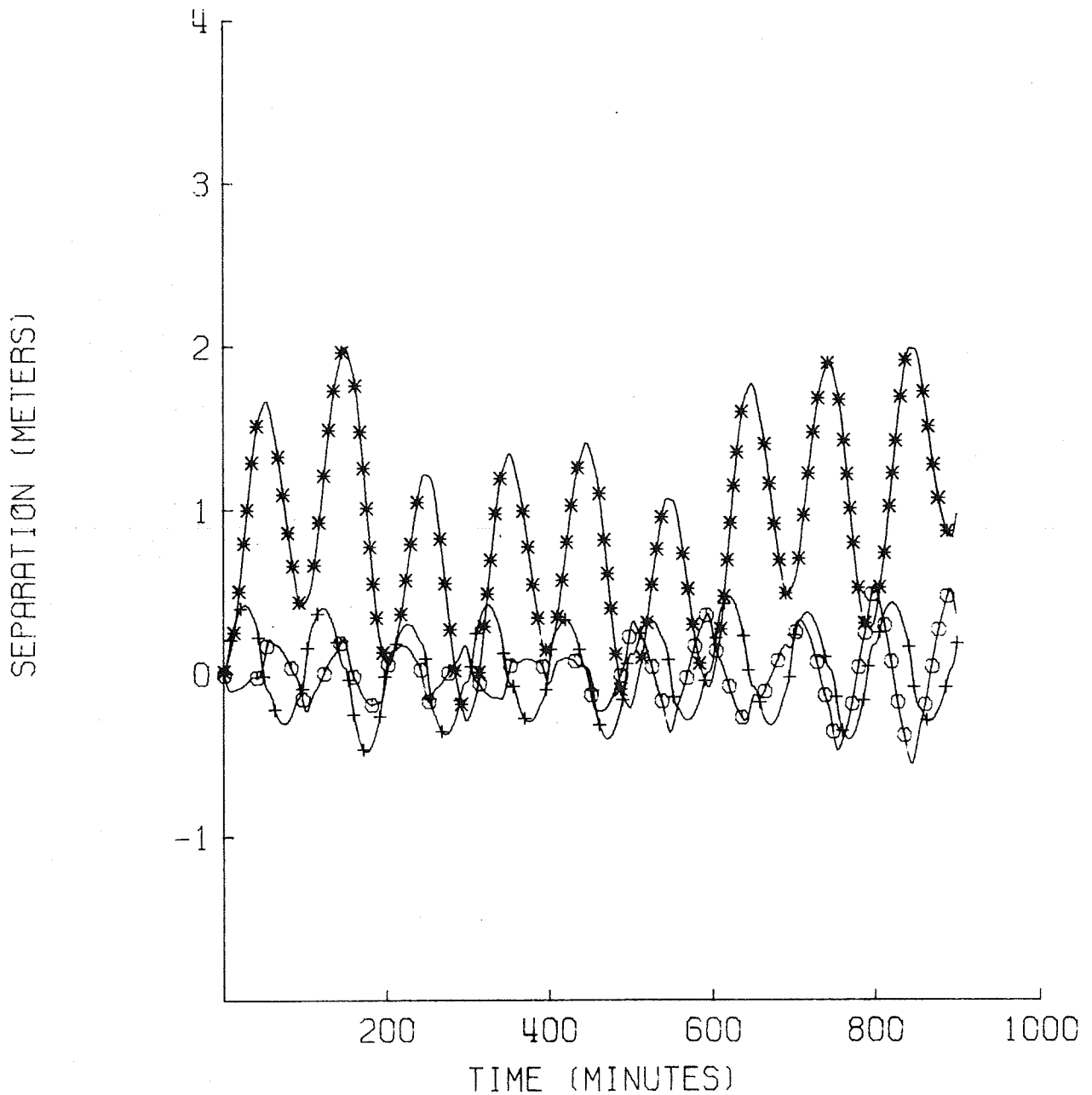
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 , 9) = -.0342
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

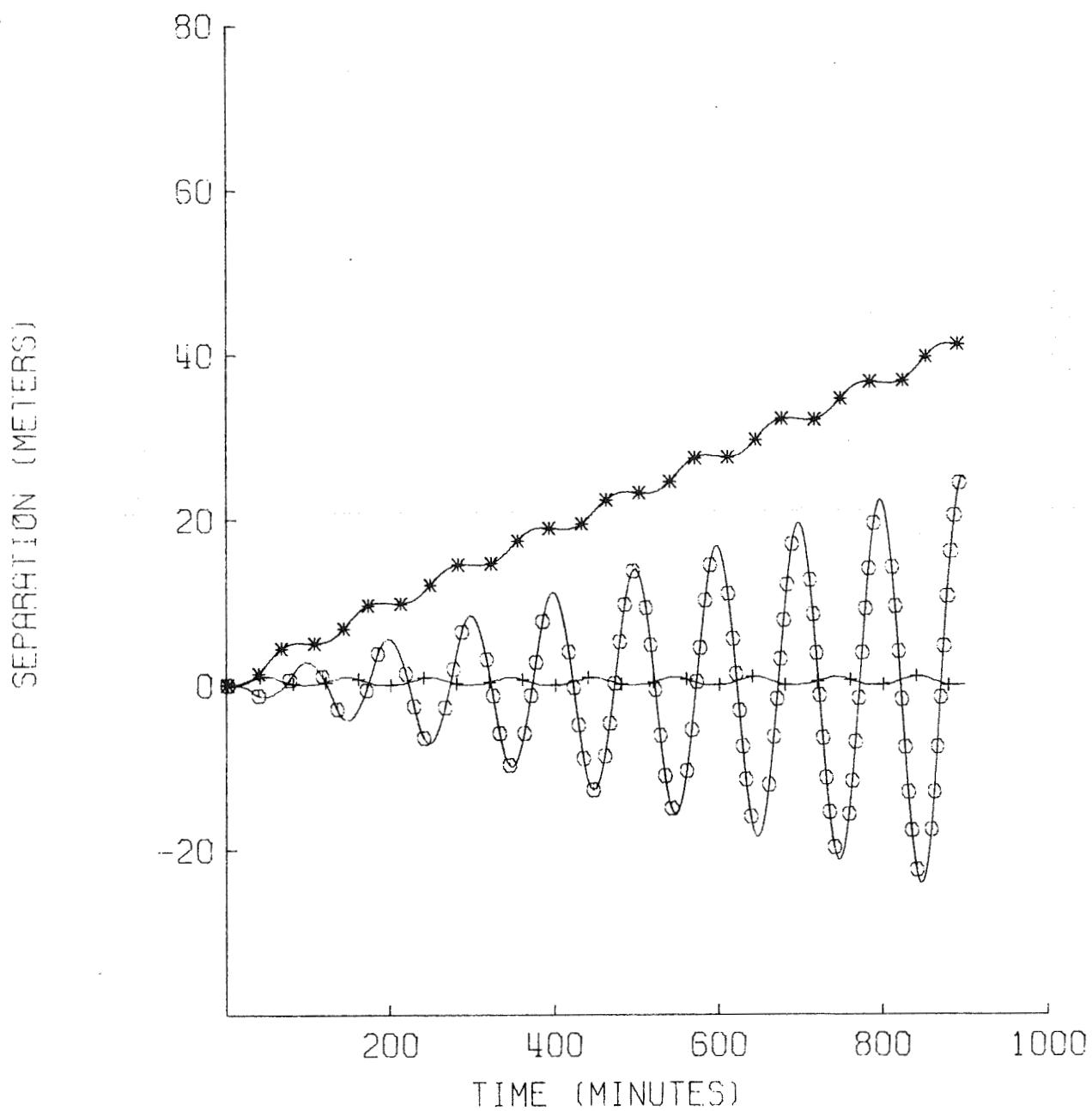


M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,0) = -.0589

FACTOR USED IS 1.000000

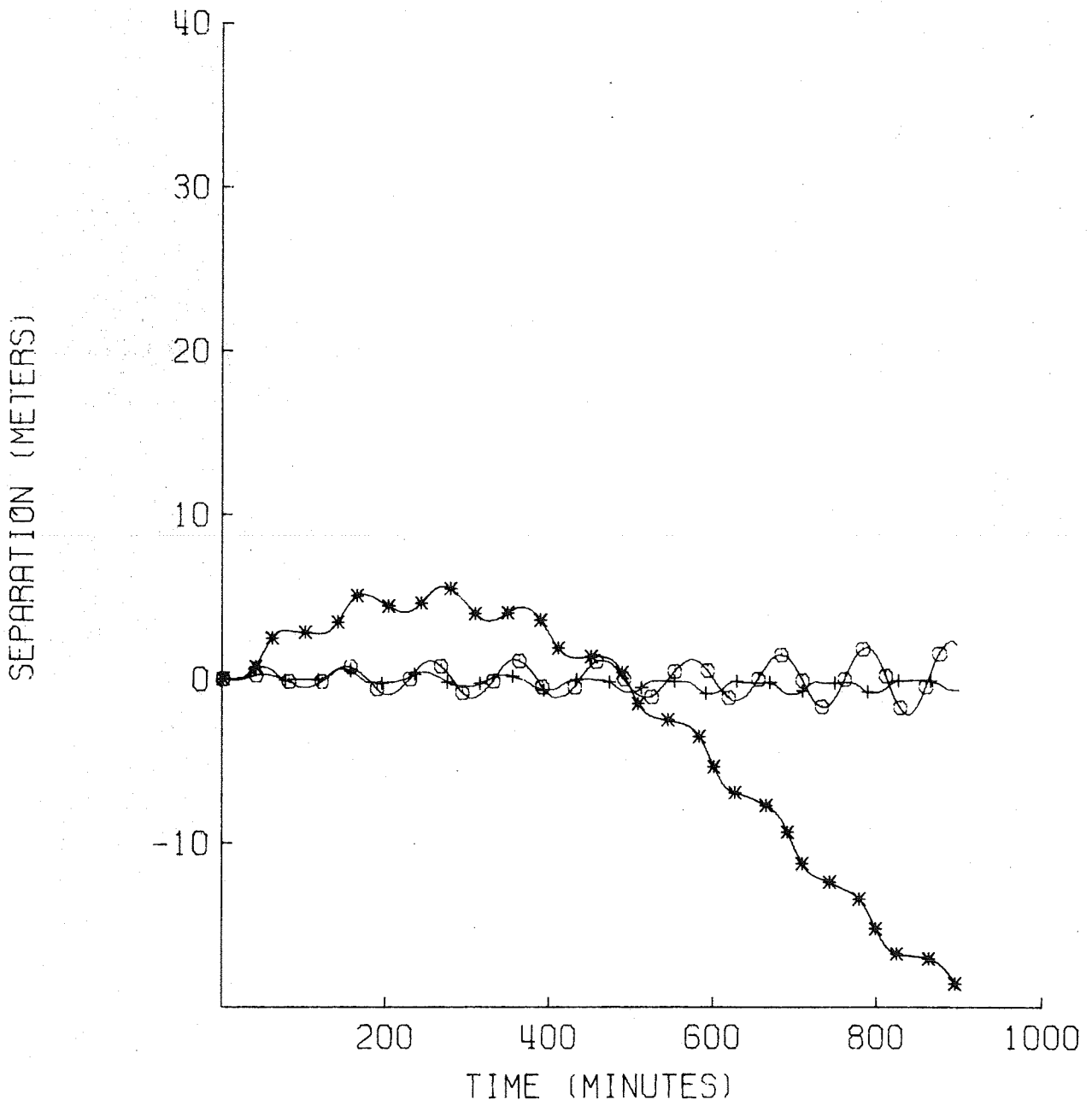
- (*) IN-TRACK
- (+) PRINCIPAL NORMAL CROSS-TRACK
- (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(10,1) = .0773
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK

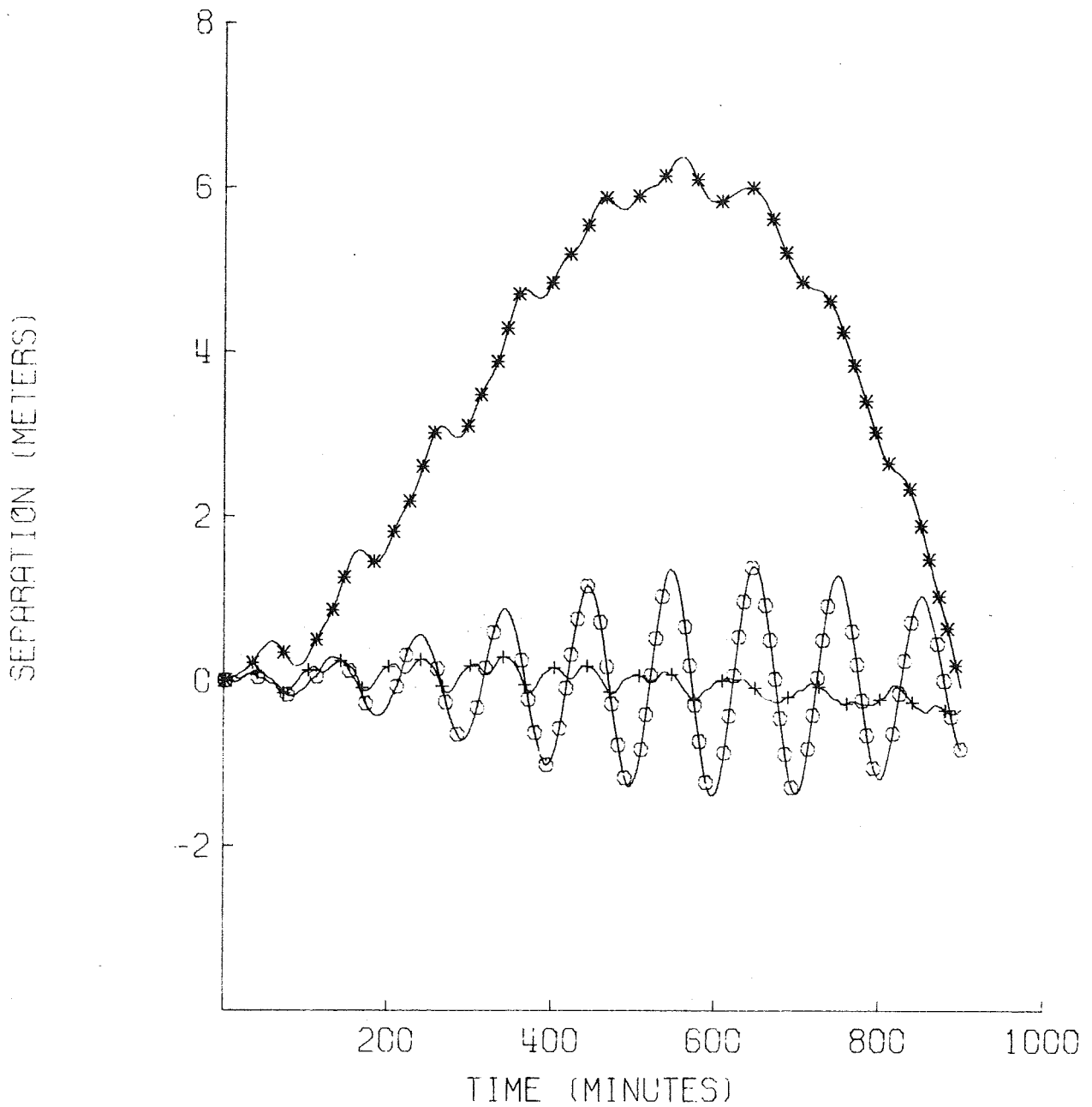


M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(10,1) = -.0493

FACTOR USED IS 1.000000

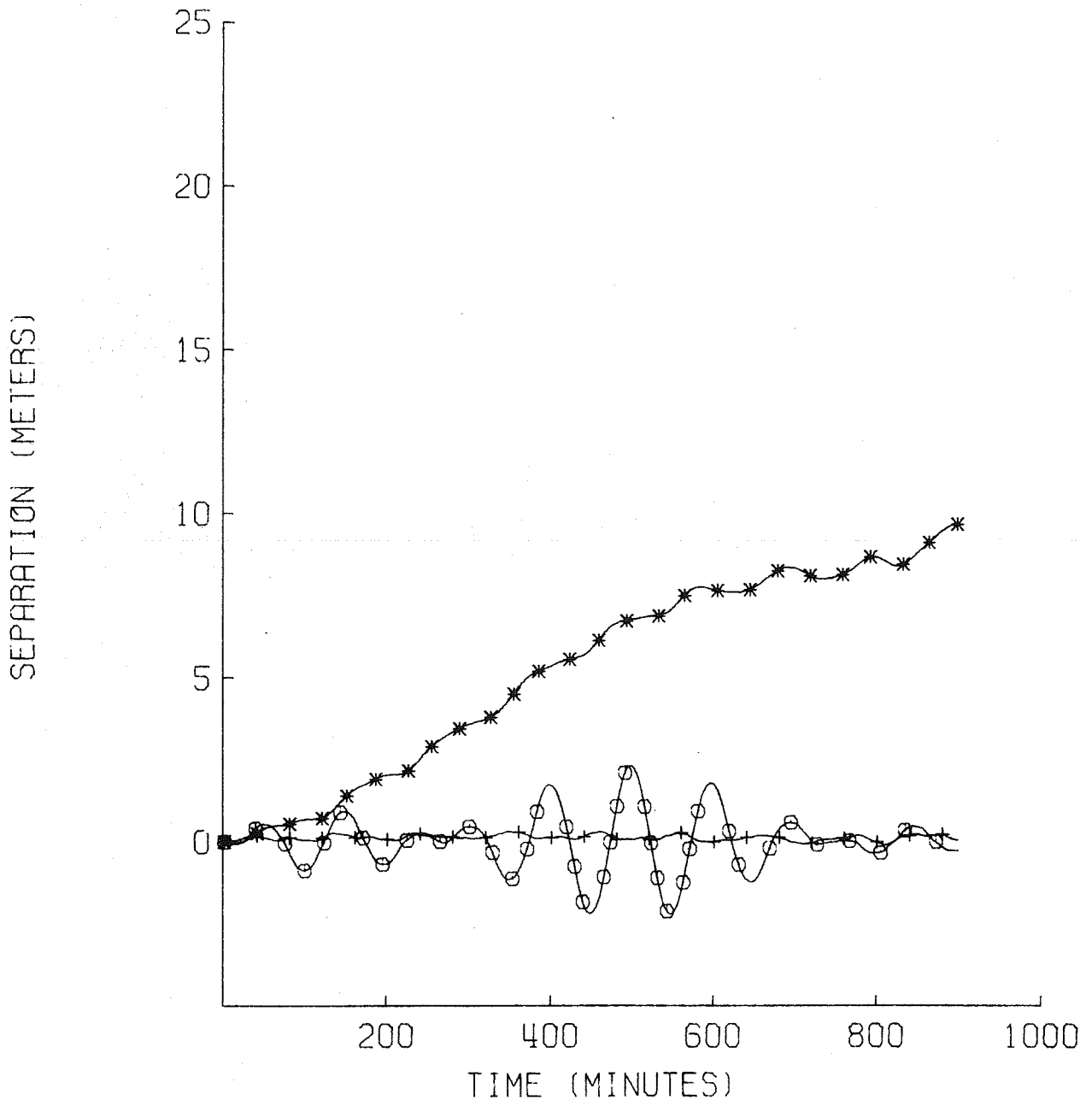
- (*) IN-TRACK
- (+) PRINCIPAL NORMAL CROSS-TRACK
- (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,2) = -.0398
 FACTOR USED IS 1.000000

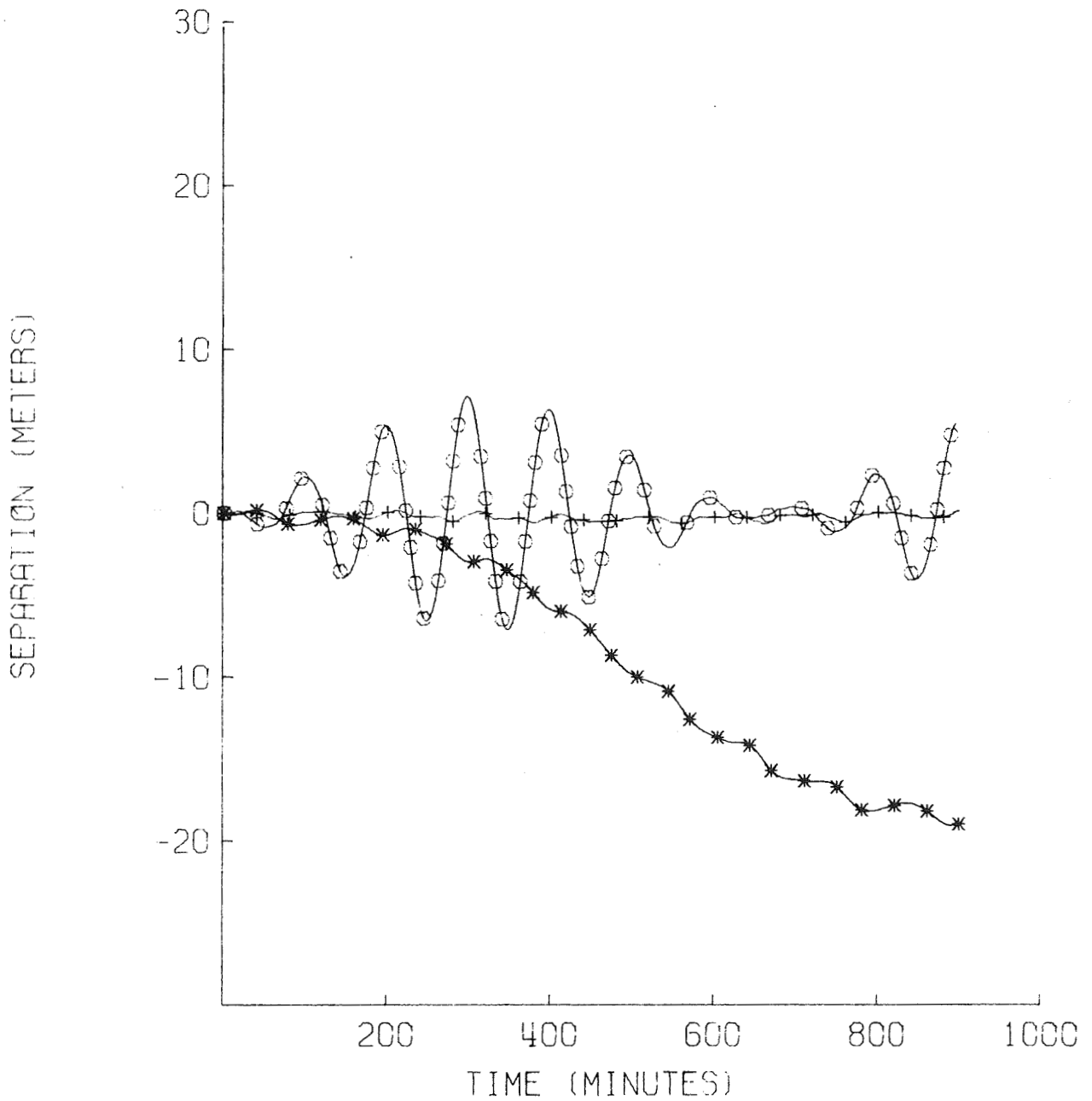
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(10,2) = -.0933
 FACTOR USED IS 1.000000

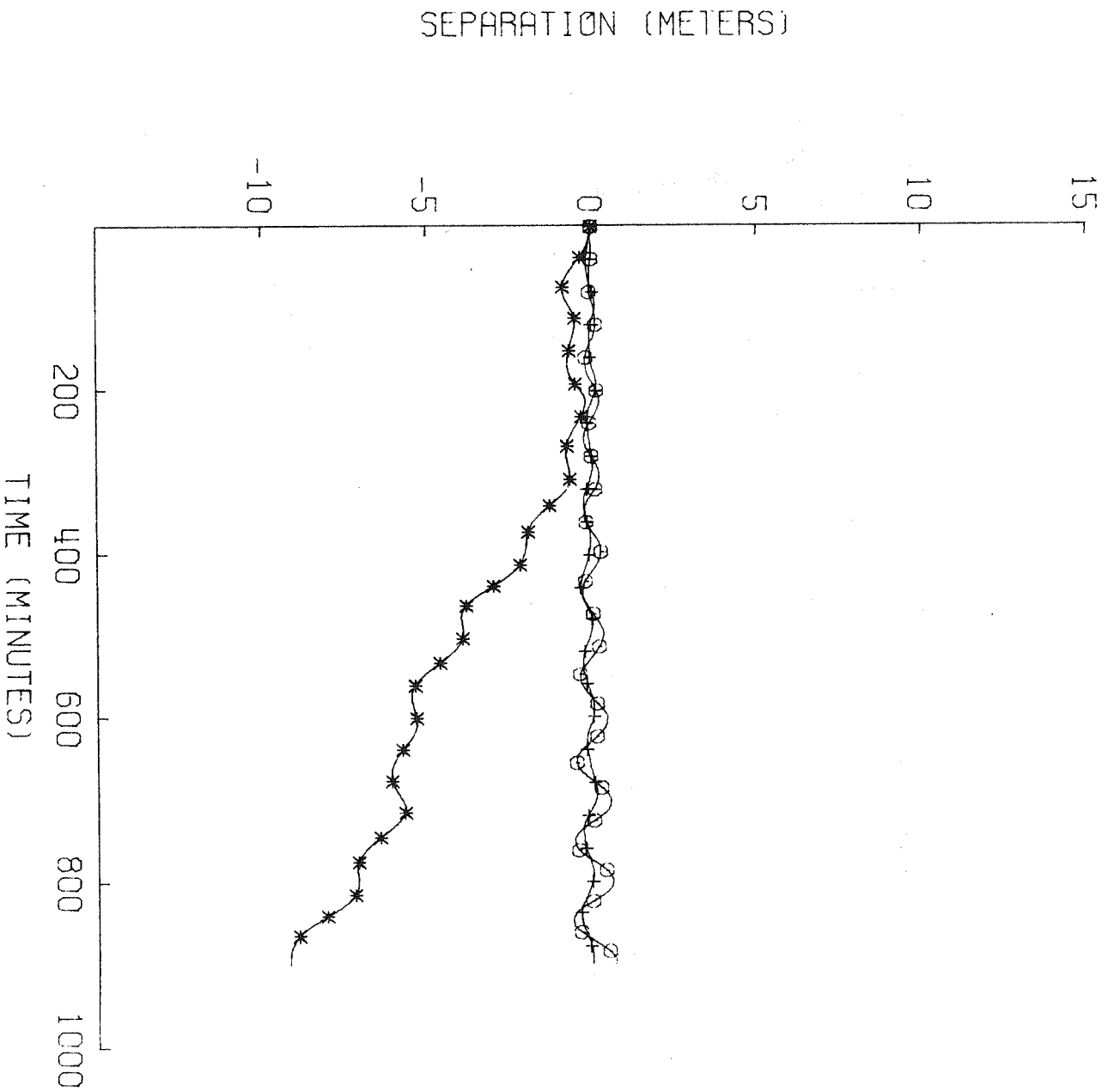
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
 0.0000 0.0000 0.0000 45.00000 .00500000 7135.6535

RUN FOR C(10,3) = .0082
 FACTOR USED IS 1.000000

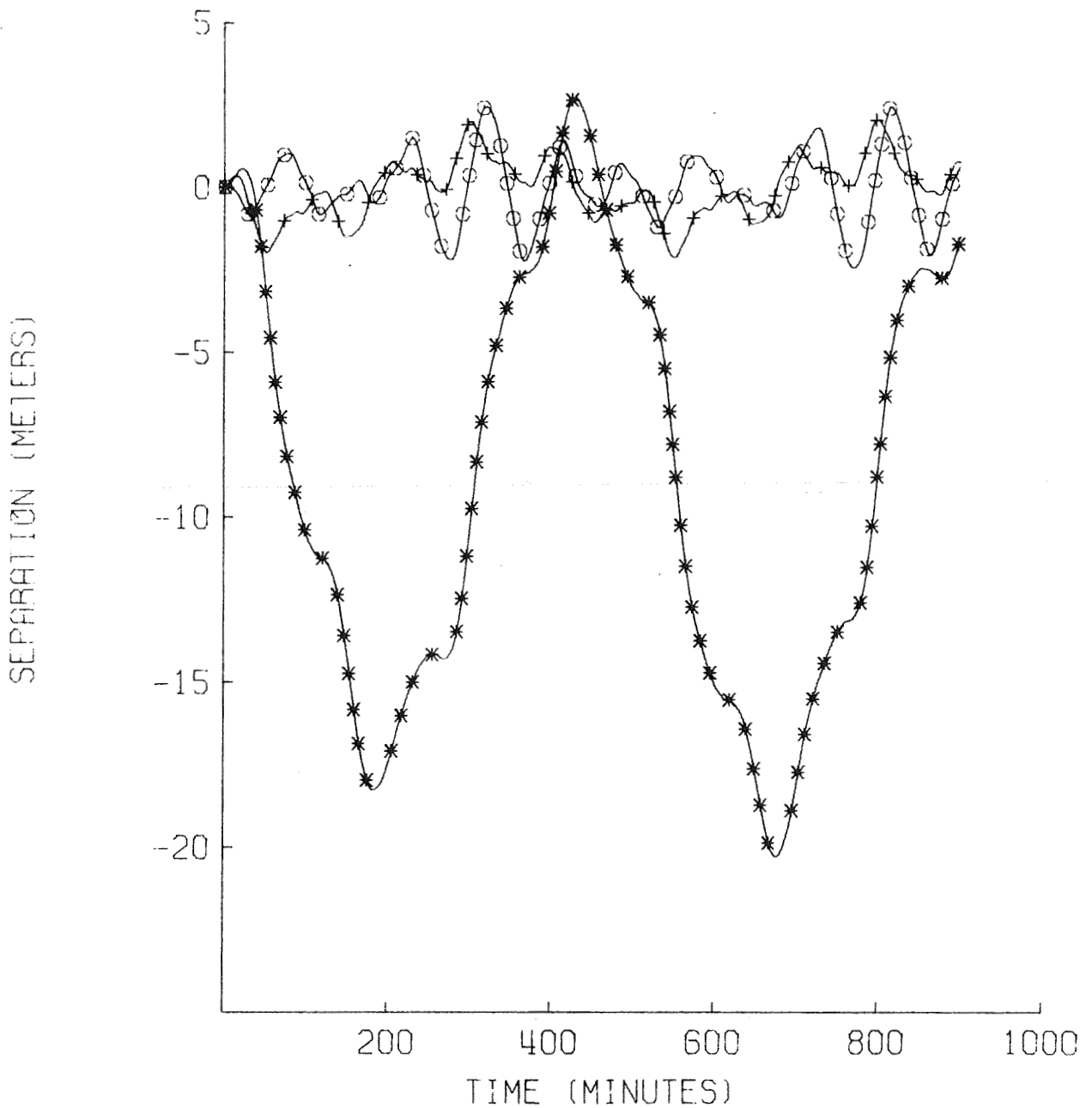
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(10,3) = -.1347
 FACTOR USED IS 1.000000

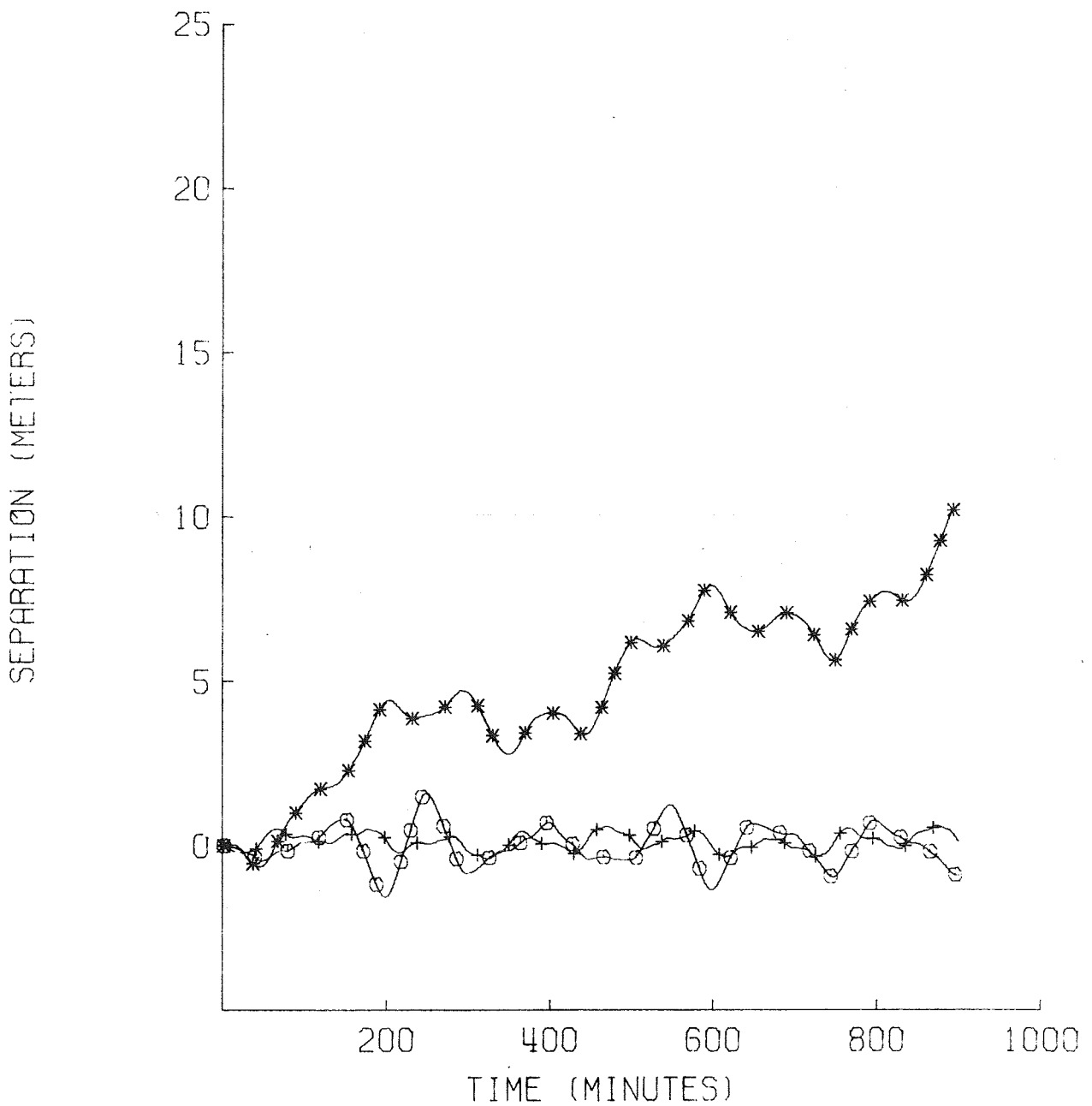
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,4) = -.0457
 FACTOR USED IS 1.000000

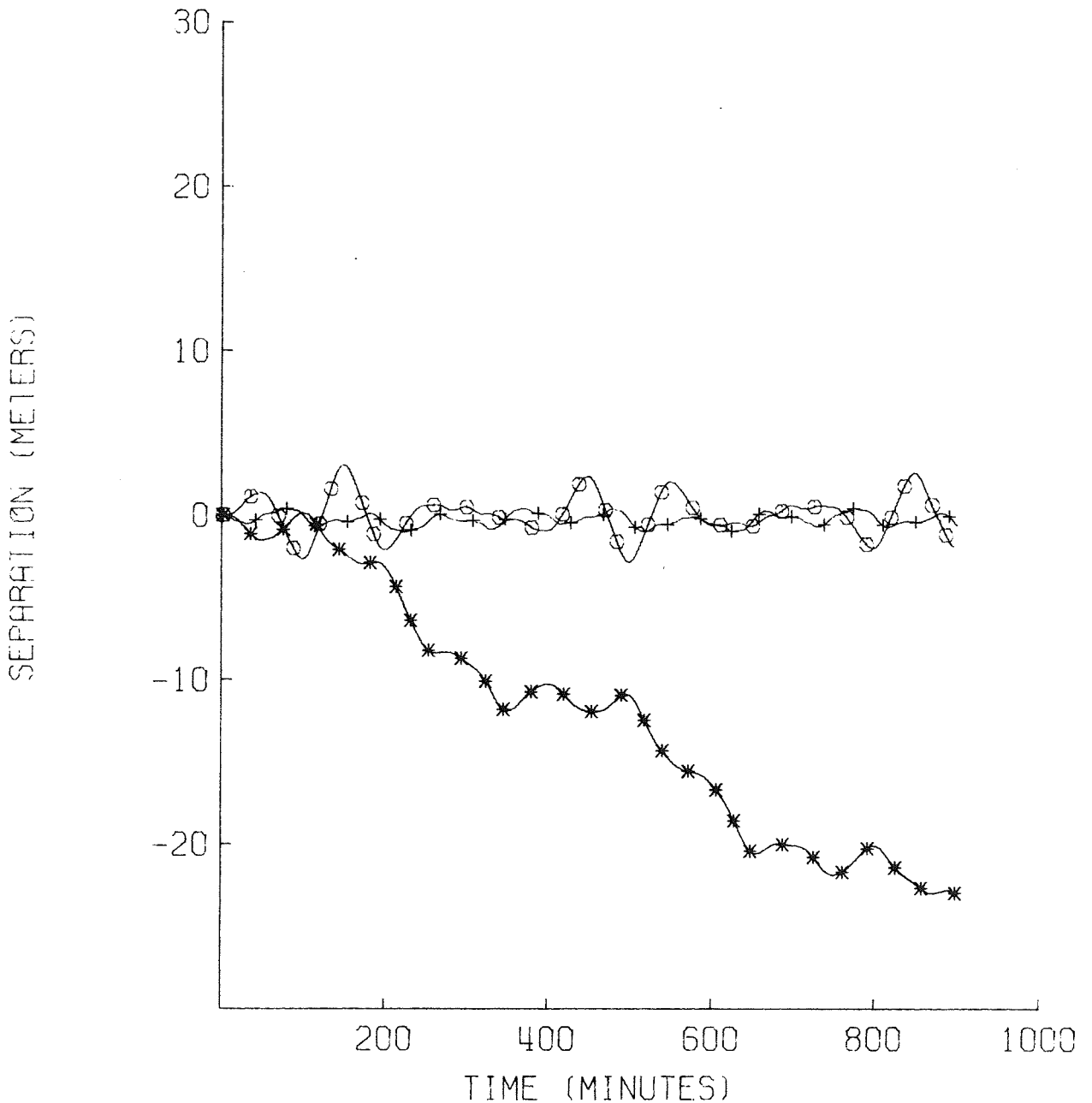
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(10,4) = -.0709
 FACTOR USED IS 1.000000

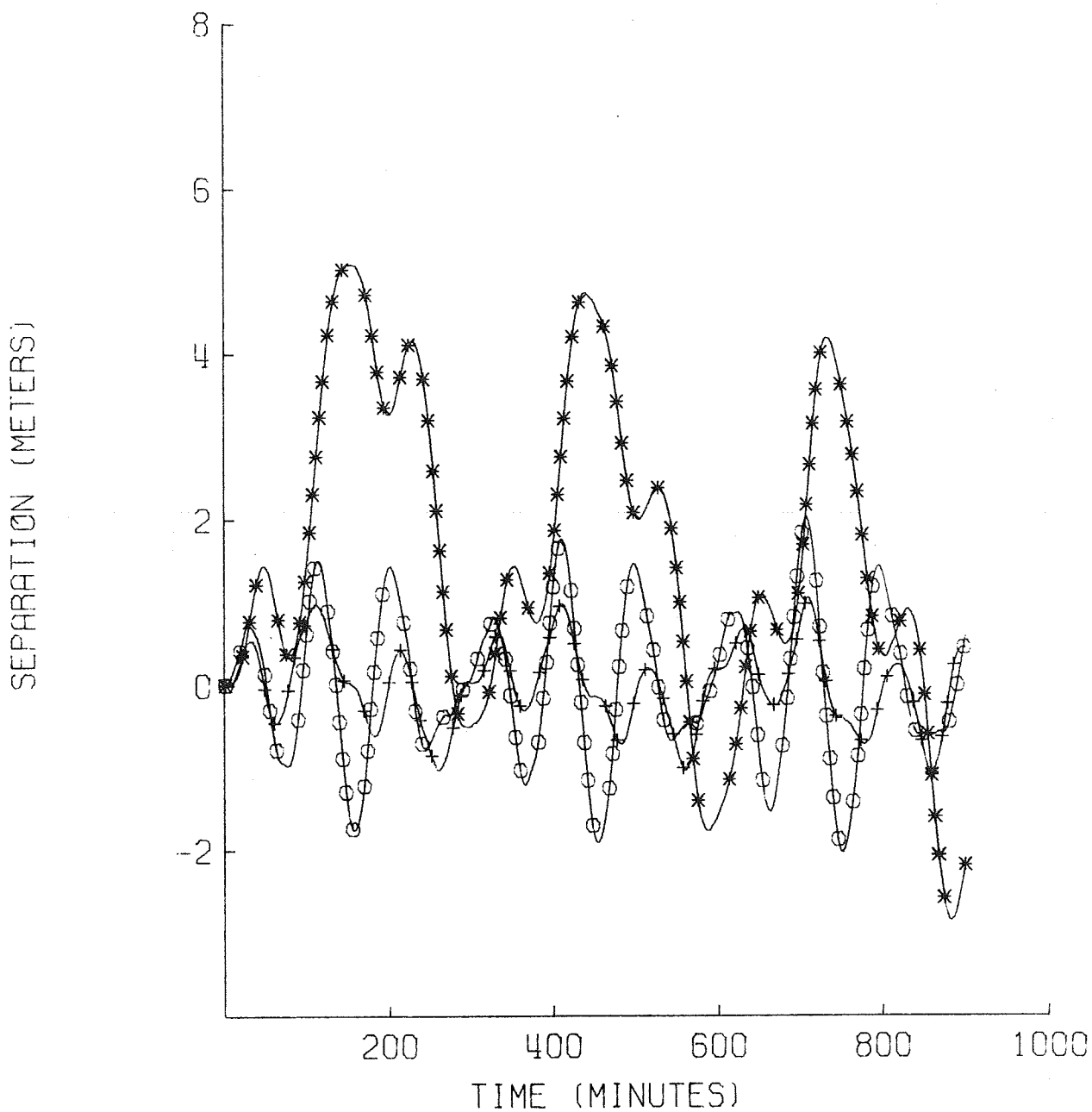
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,5) = -.0540
 FACTOR USED IS 1.000000

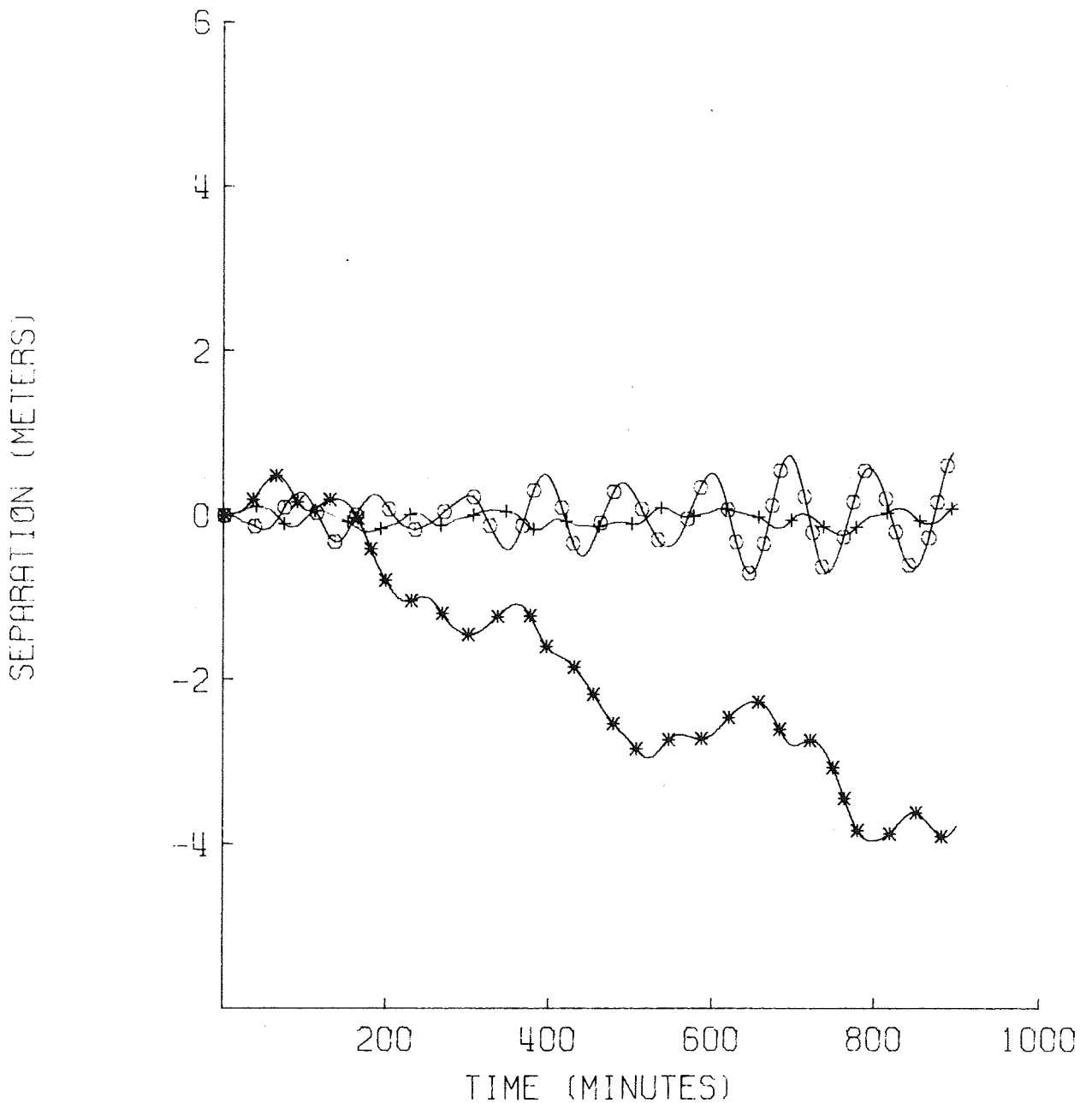
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(10,5) = -.0083
 FACTOR USED IS 1.000000

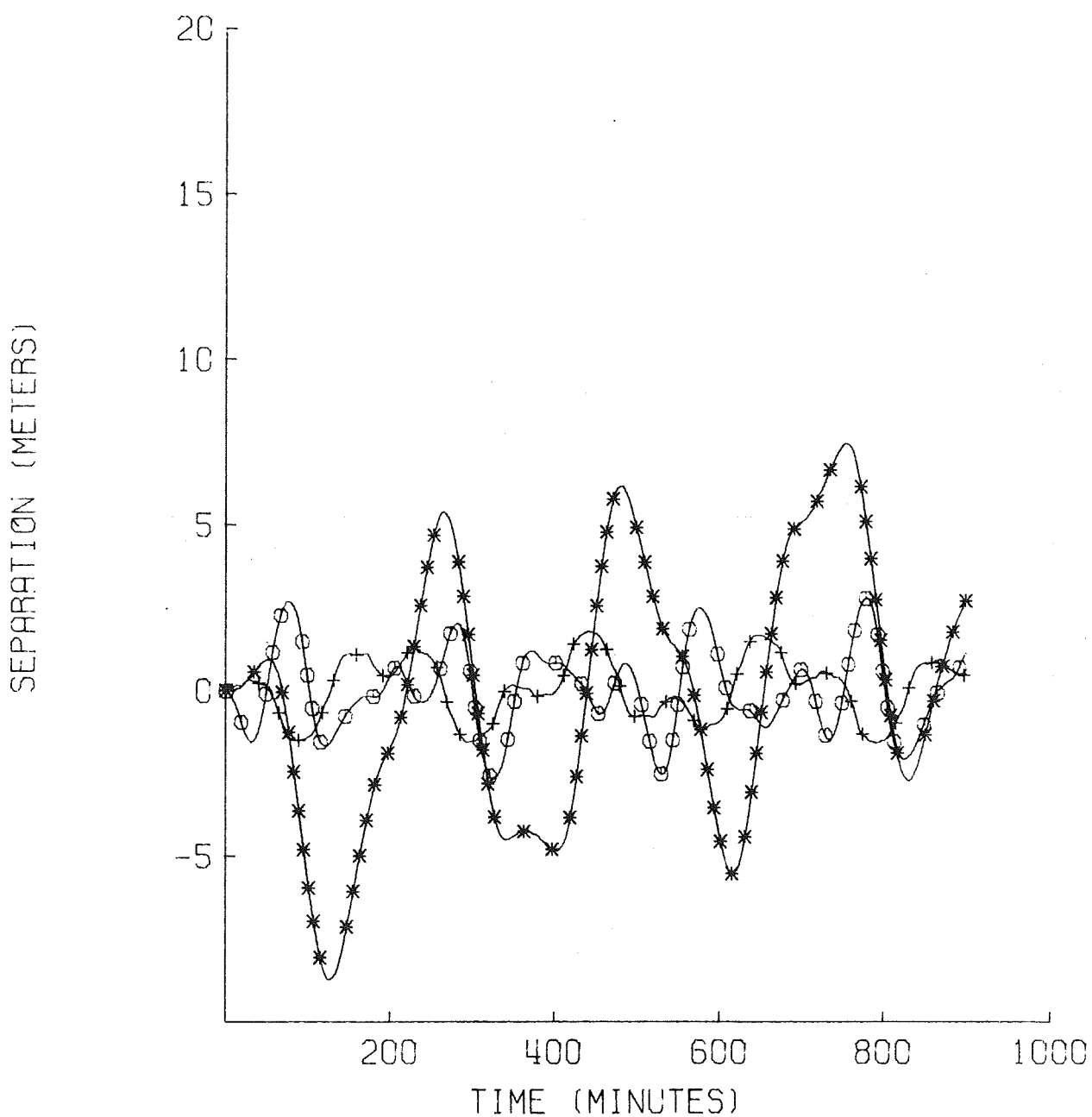
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,6) = -.0765
 FACTOR USED IS 1.000000

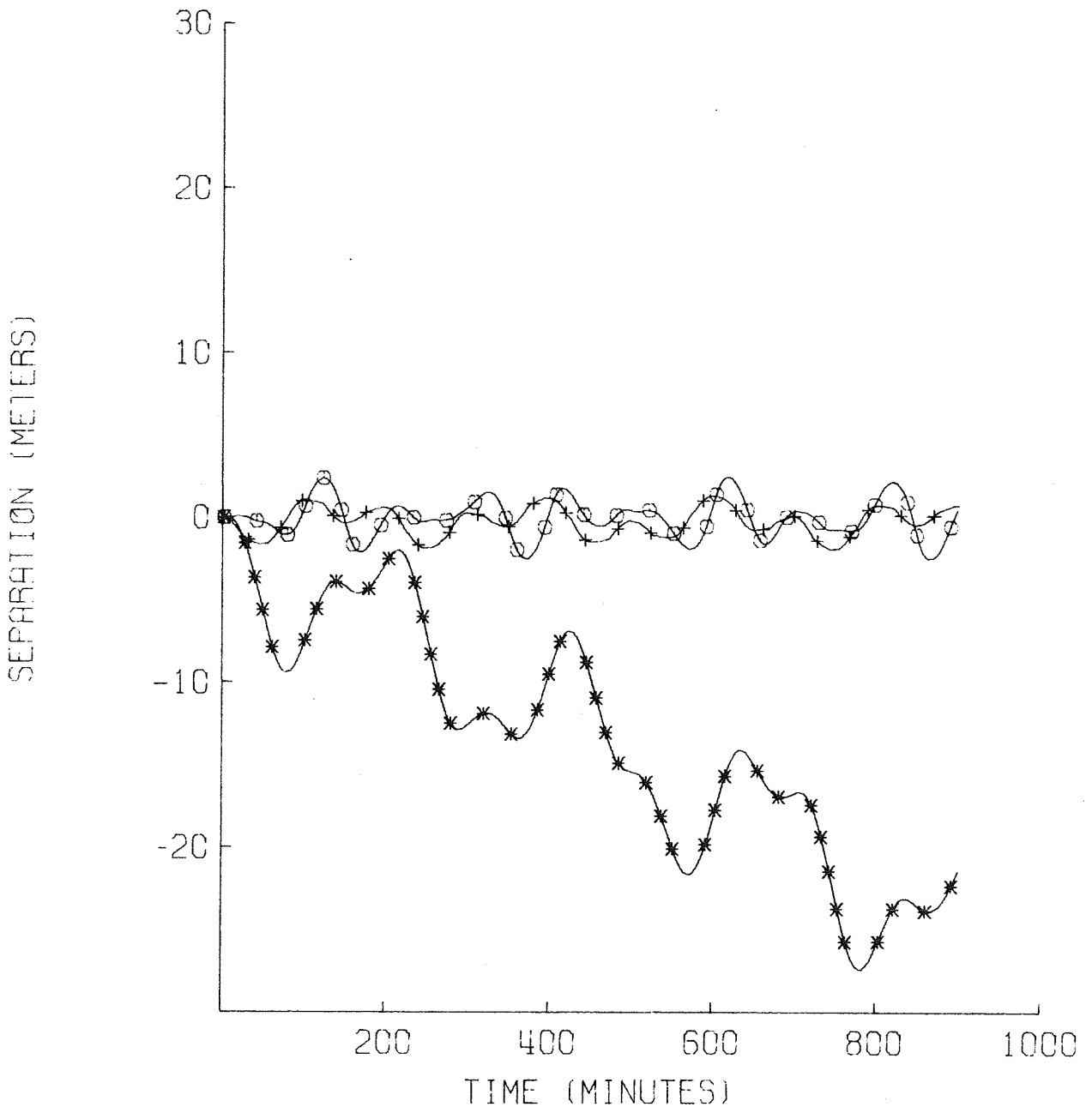
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .0050000 7136.6535

RUN FOR S(10.6) = -.0576
FACTOR USED IS 1.000000

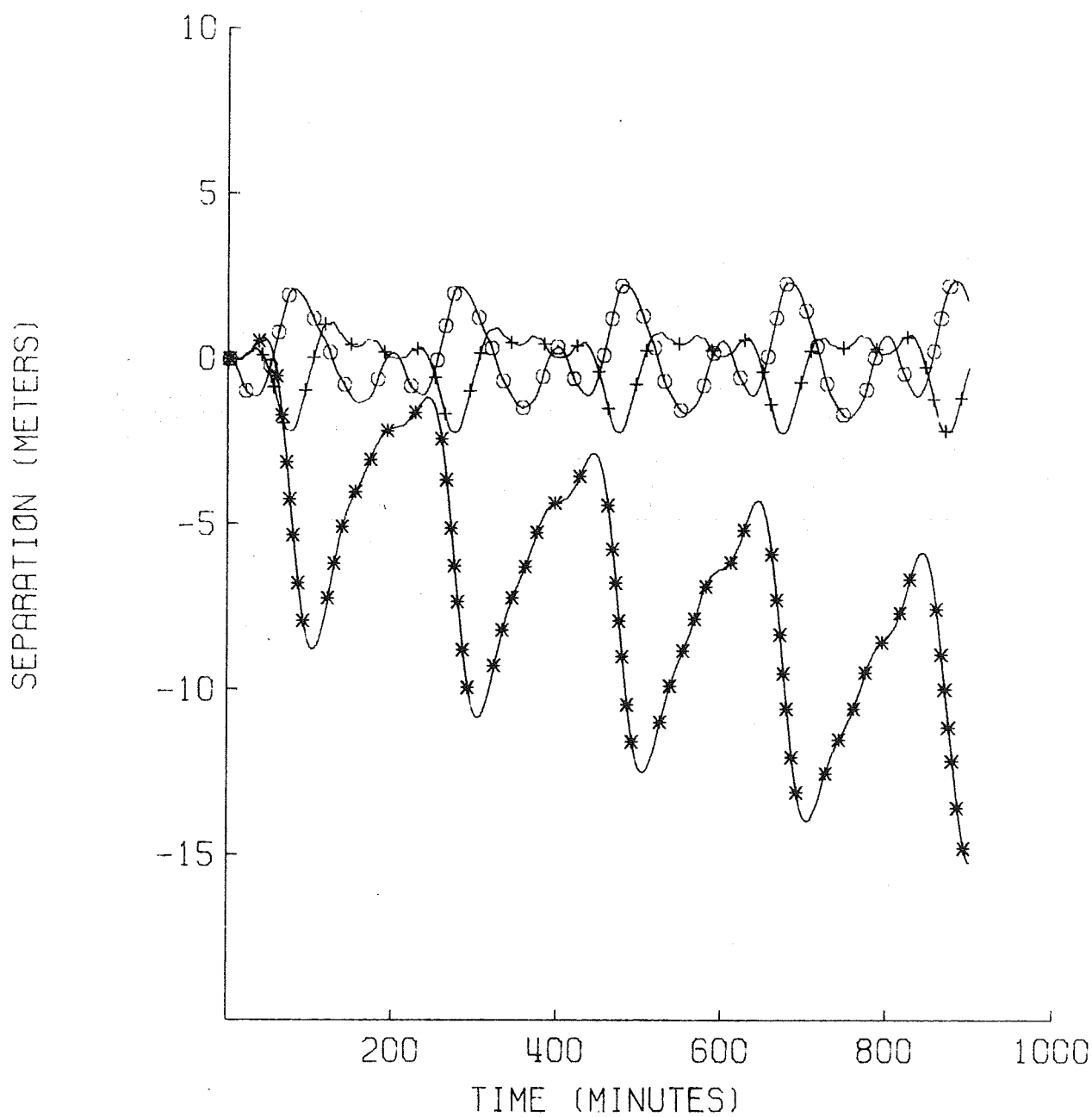
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,7) = .0687
 FACTOR USED IS 1.000000

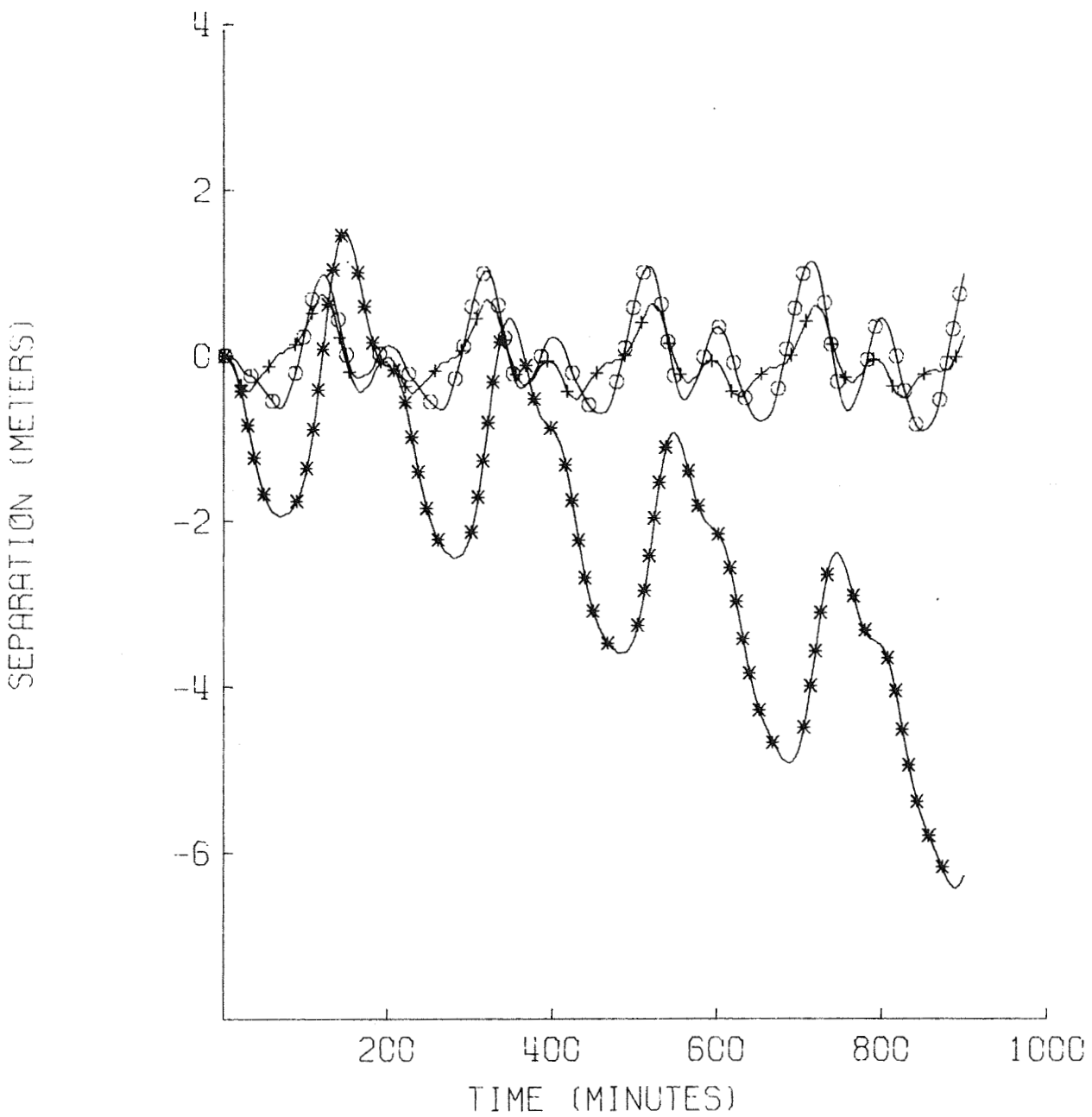
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(10 , 7) = .0264
 FACTOR USED IS 1.000000

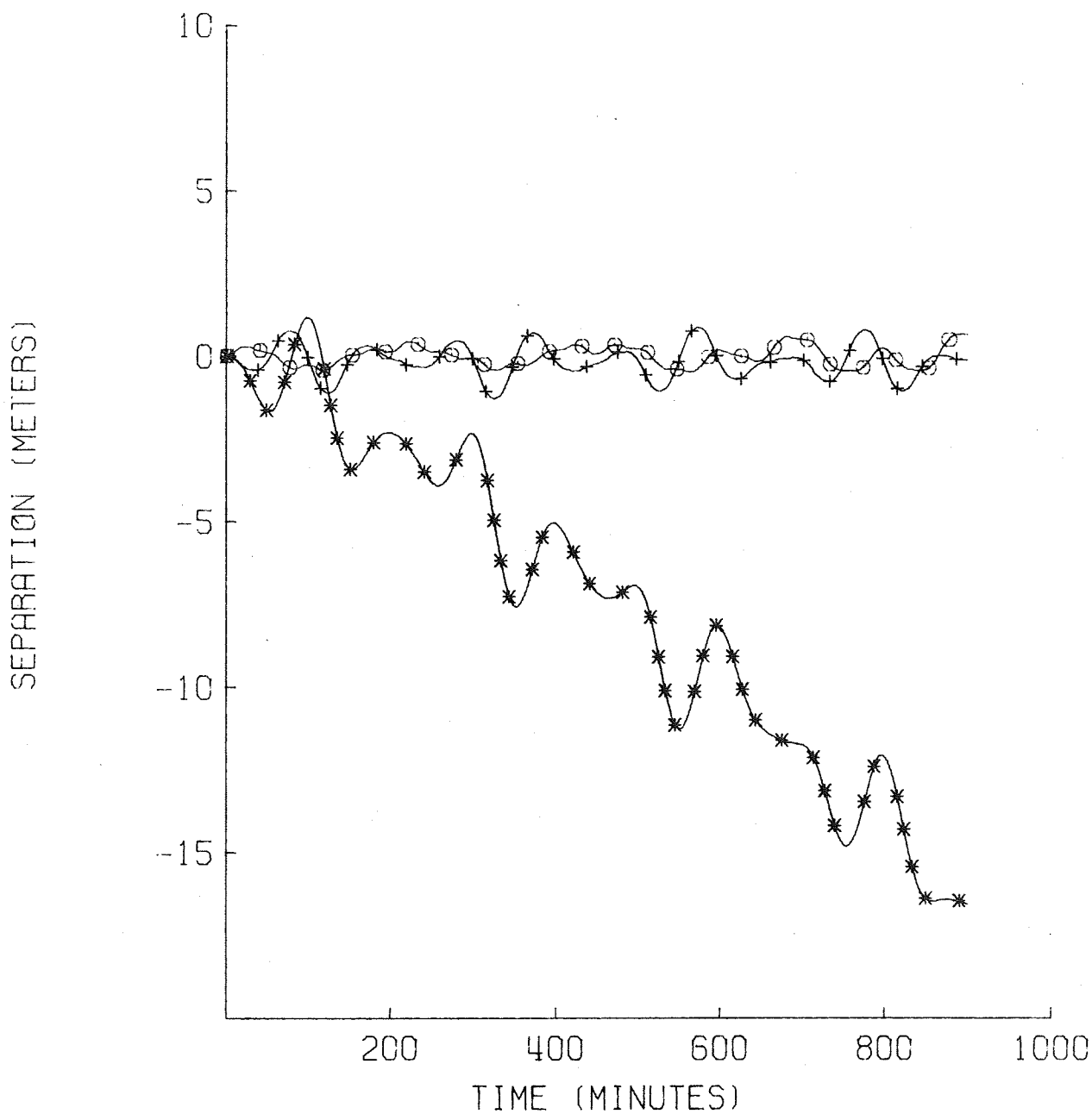
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,8) = .0278
 FACTOR USED IS 1.000000

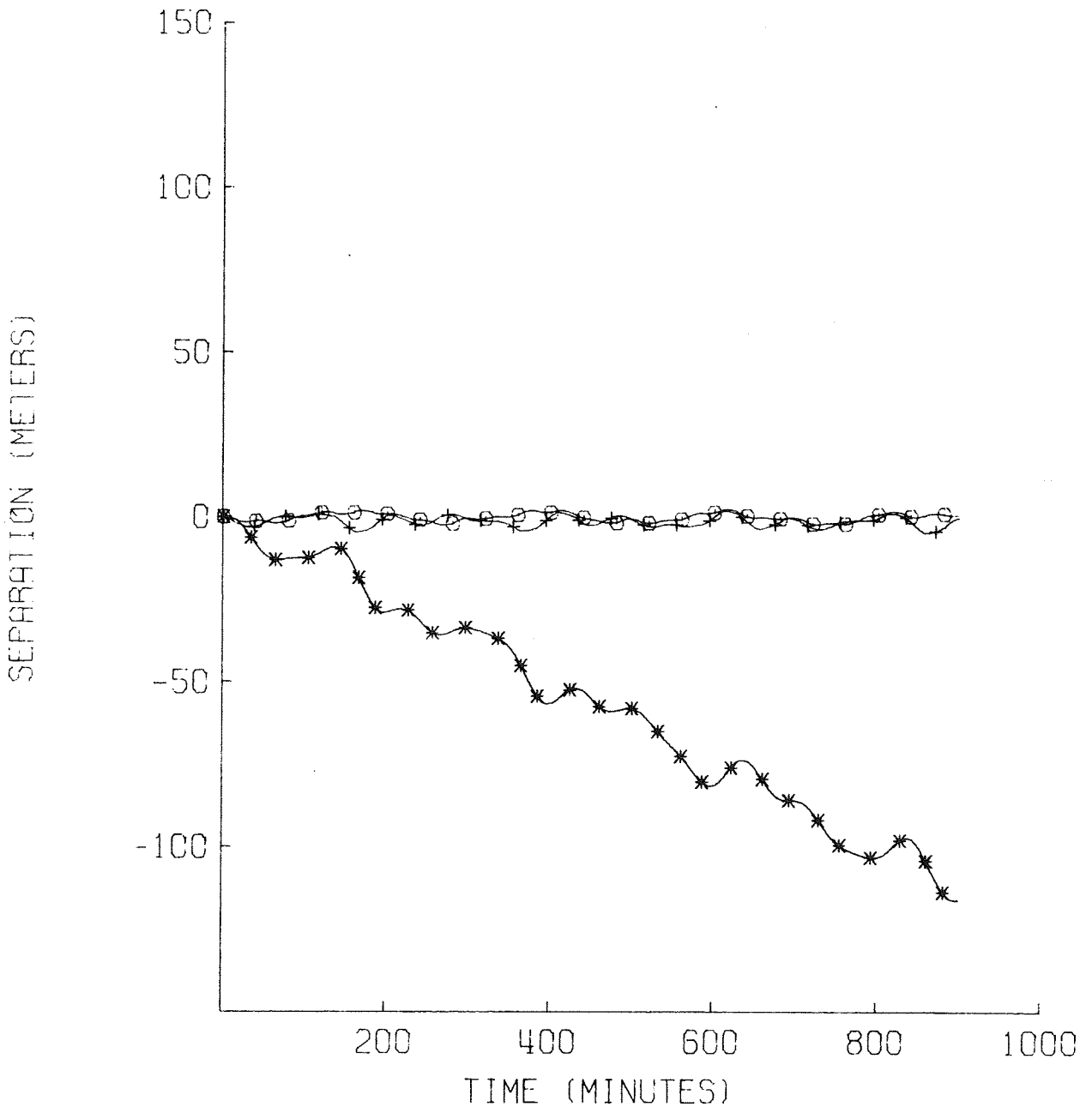
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(10,8) = -.1435
 FACTOR USED IS 1.000000

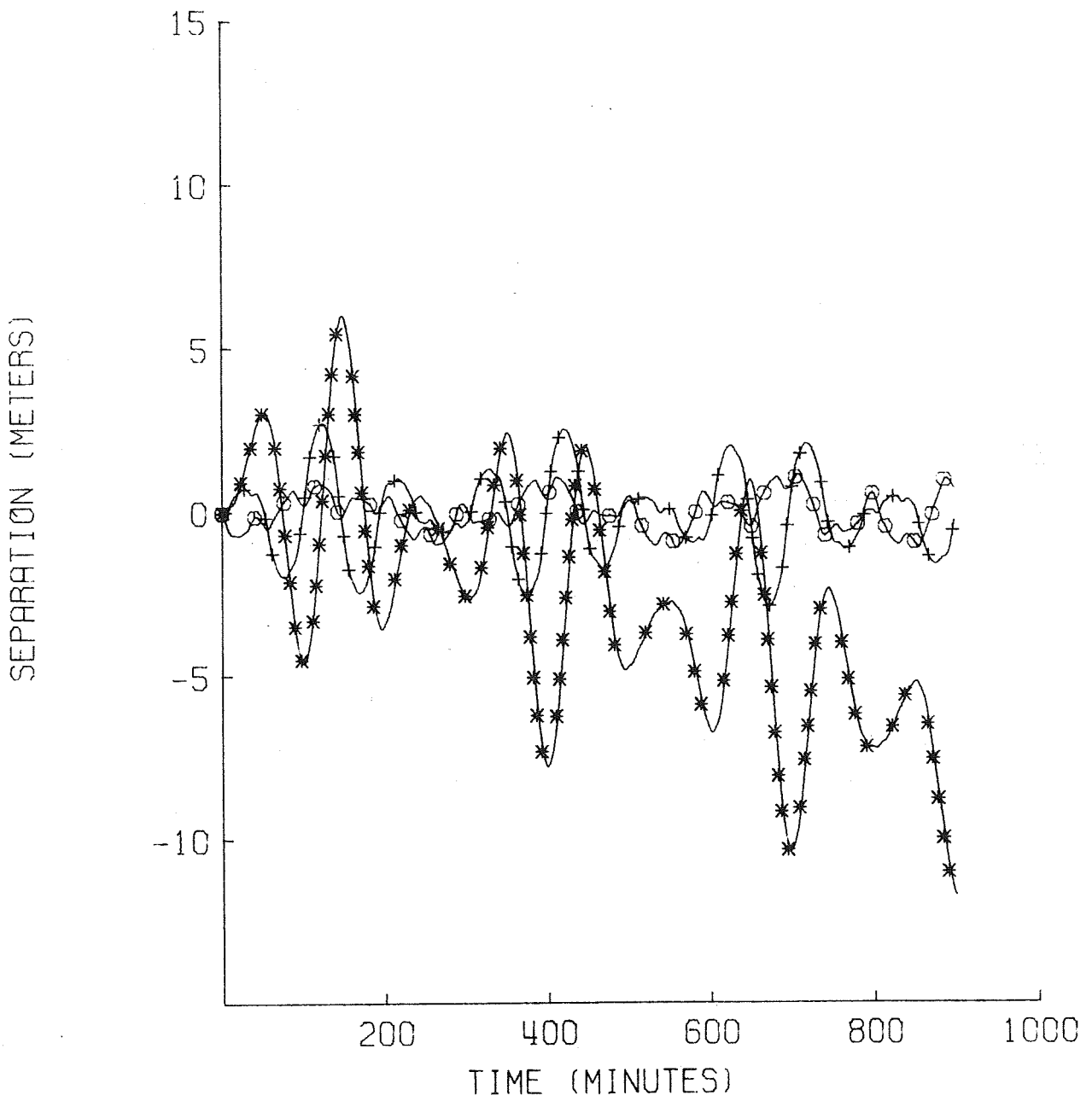
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(10,9) = .1182
FACTOR USED IS 1.000000

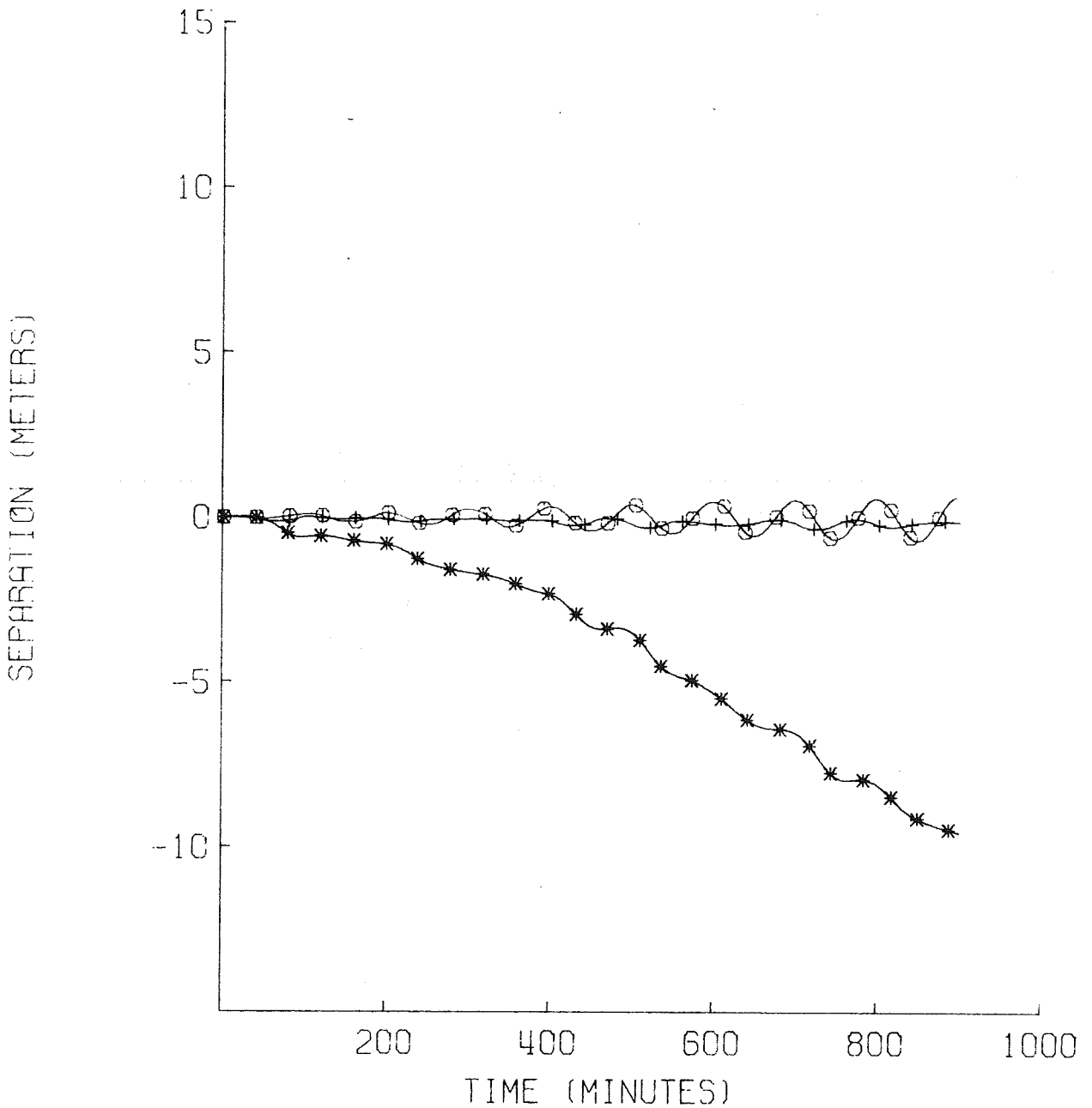
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.5535

RUN FOR S(10,9) = -.0051
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

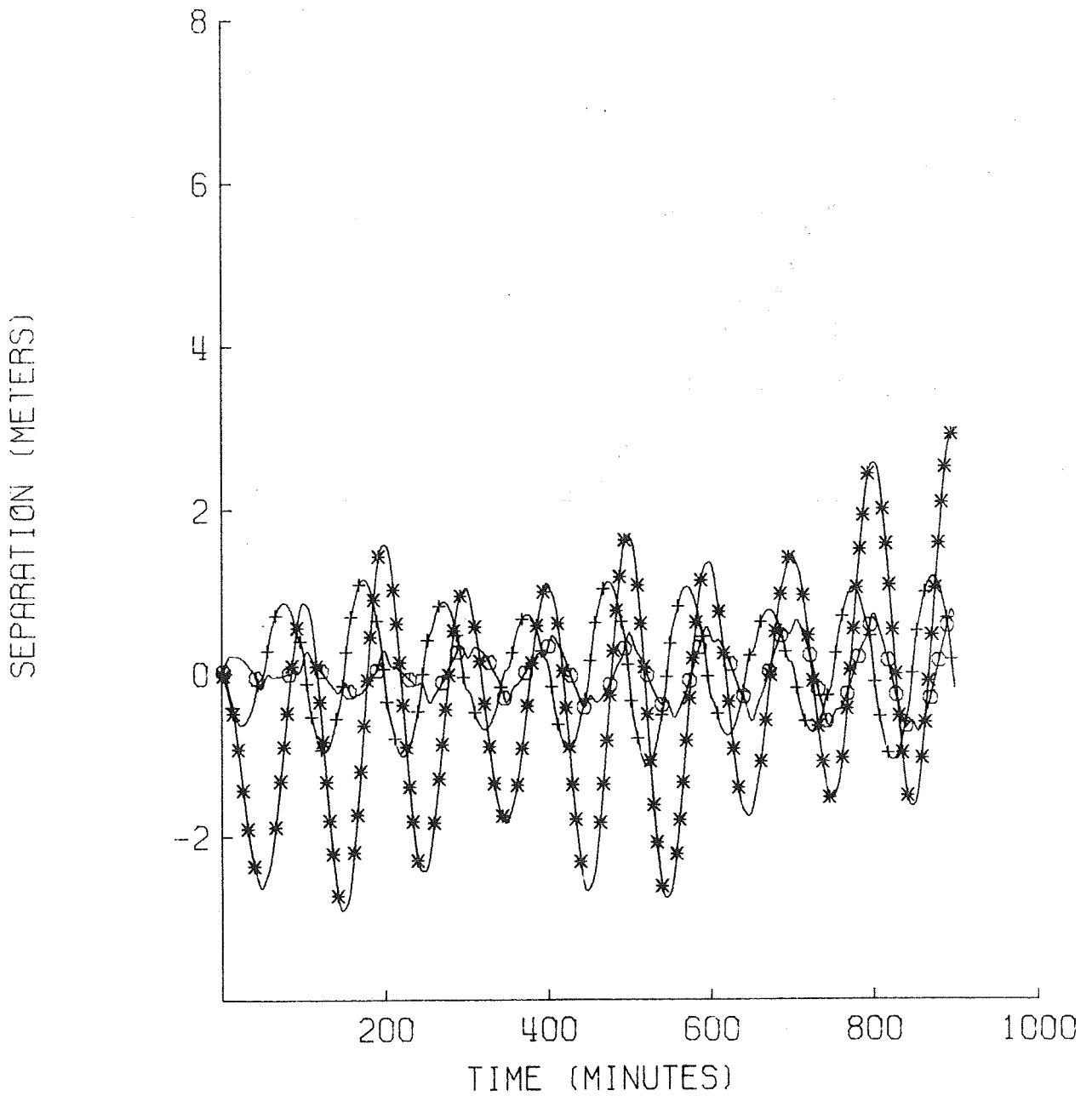
RUN FOR C(10,10) = .0653

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK

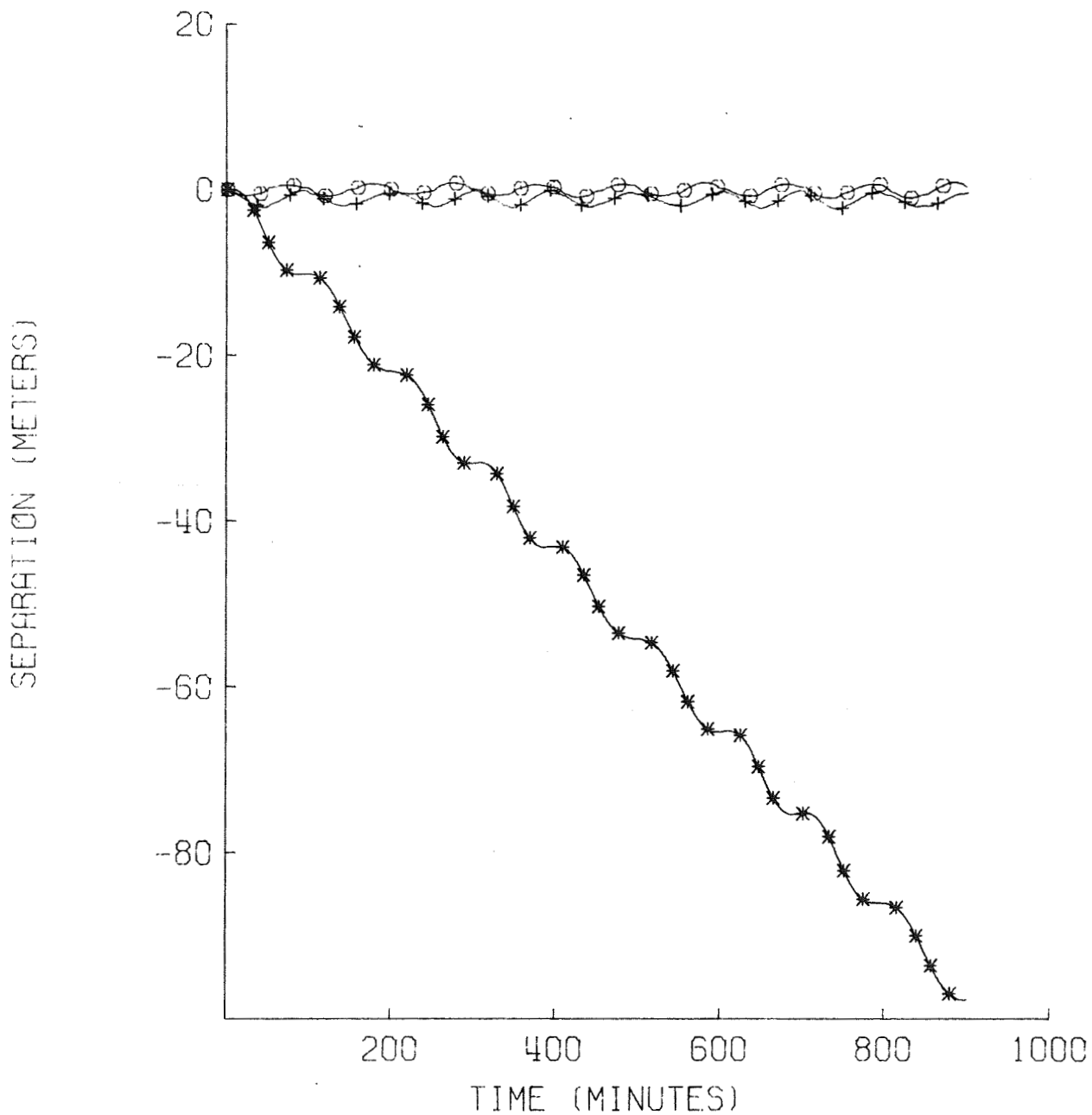


M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(10, 10) = -.0729

FACTOR USED IS 1.000000

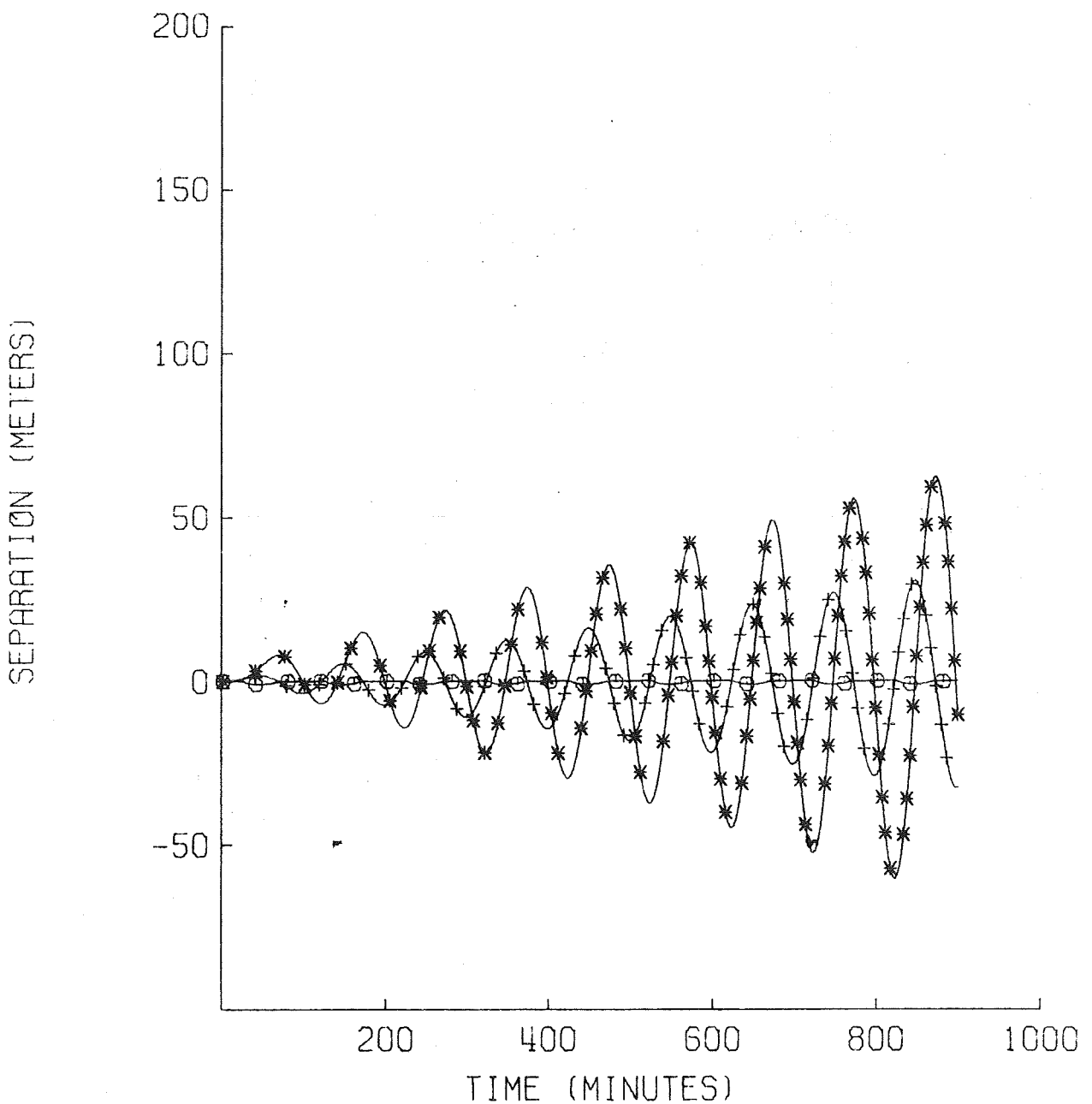
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M 0MEGA C 0MEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7135.6535

RUN FOR C(11,0) = -.0949
FACTOR USED IS 1.000000

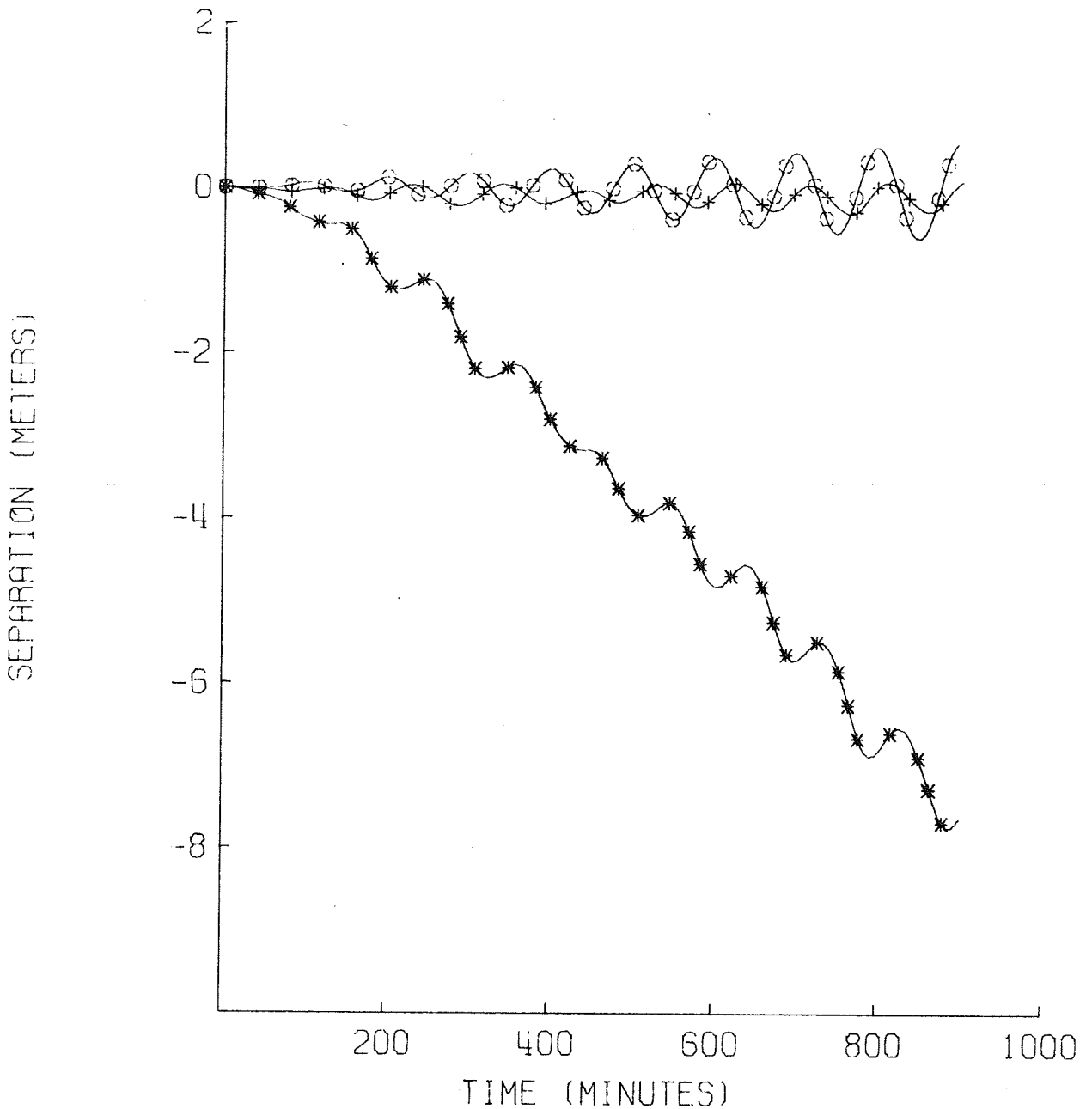
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊖) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(11,1) = .0042
FACTOR USED IS 1.000000

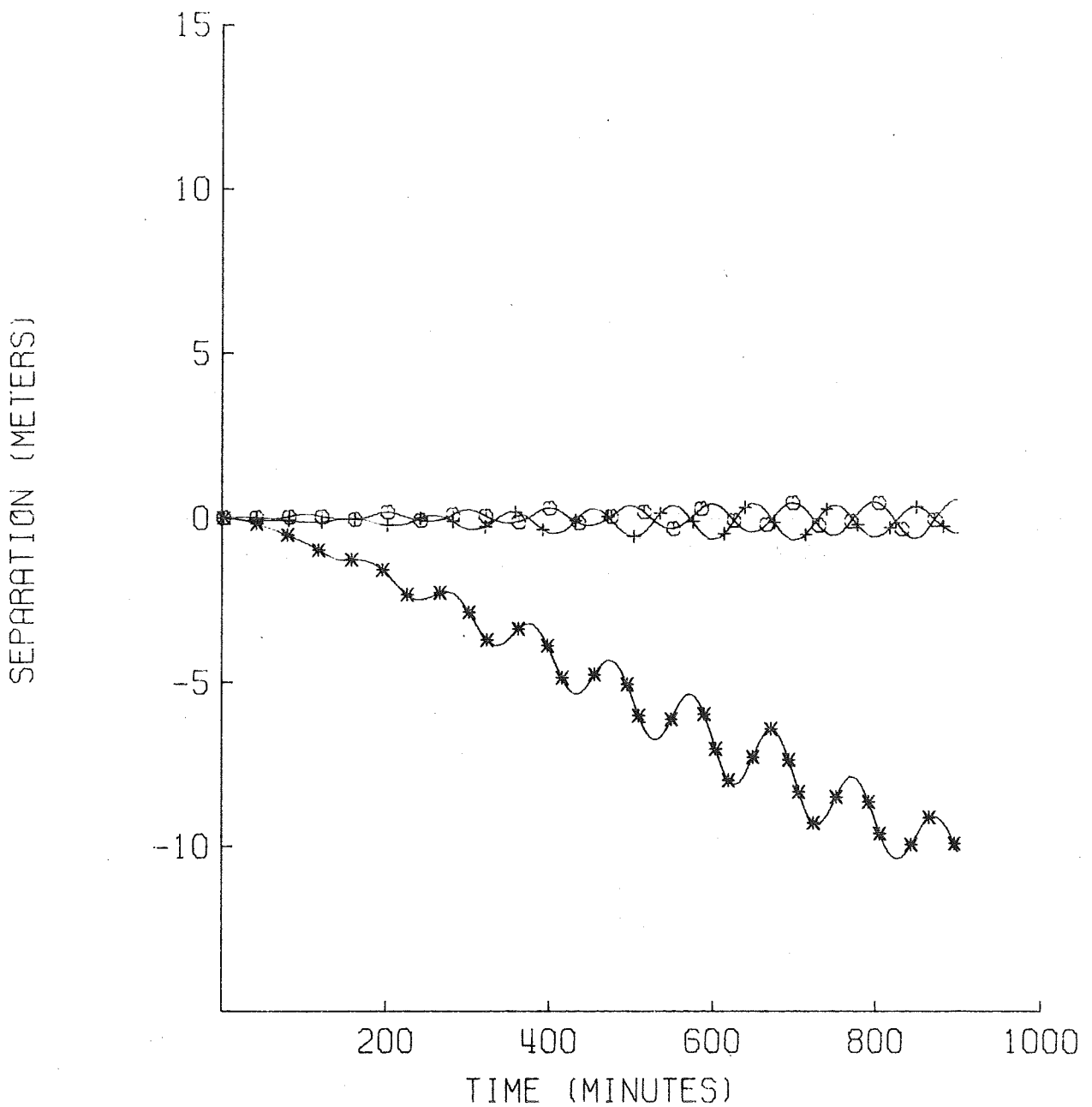
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR S(11,1) = -.0121
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

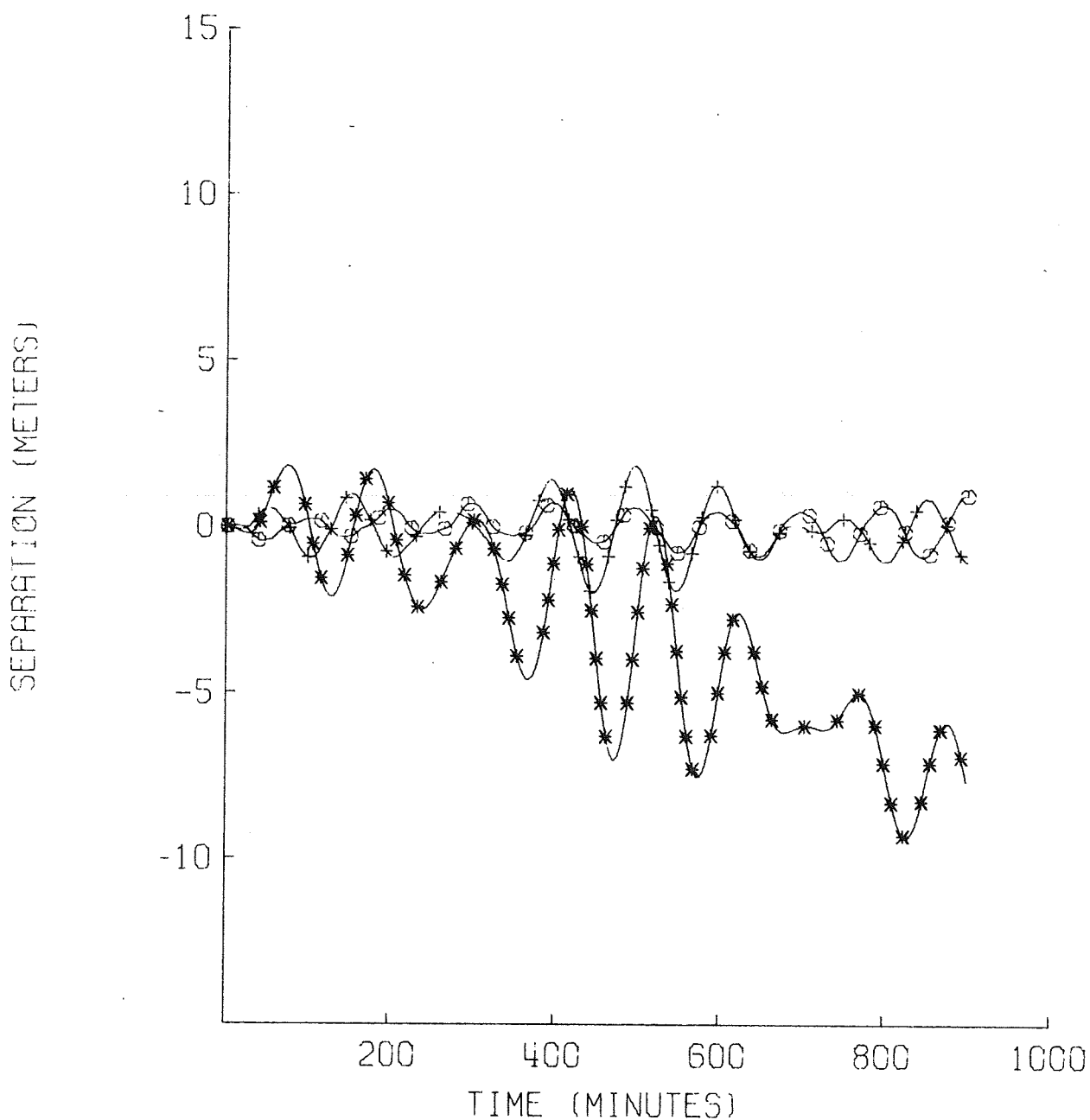


M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(11,2) = .0585

FACTOR USED IS 1.000000

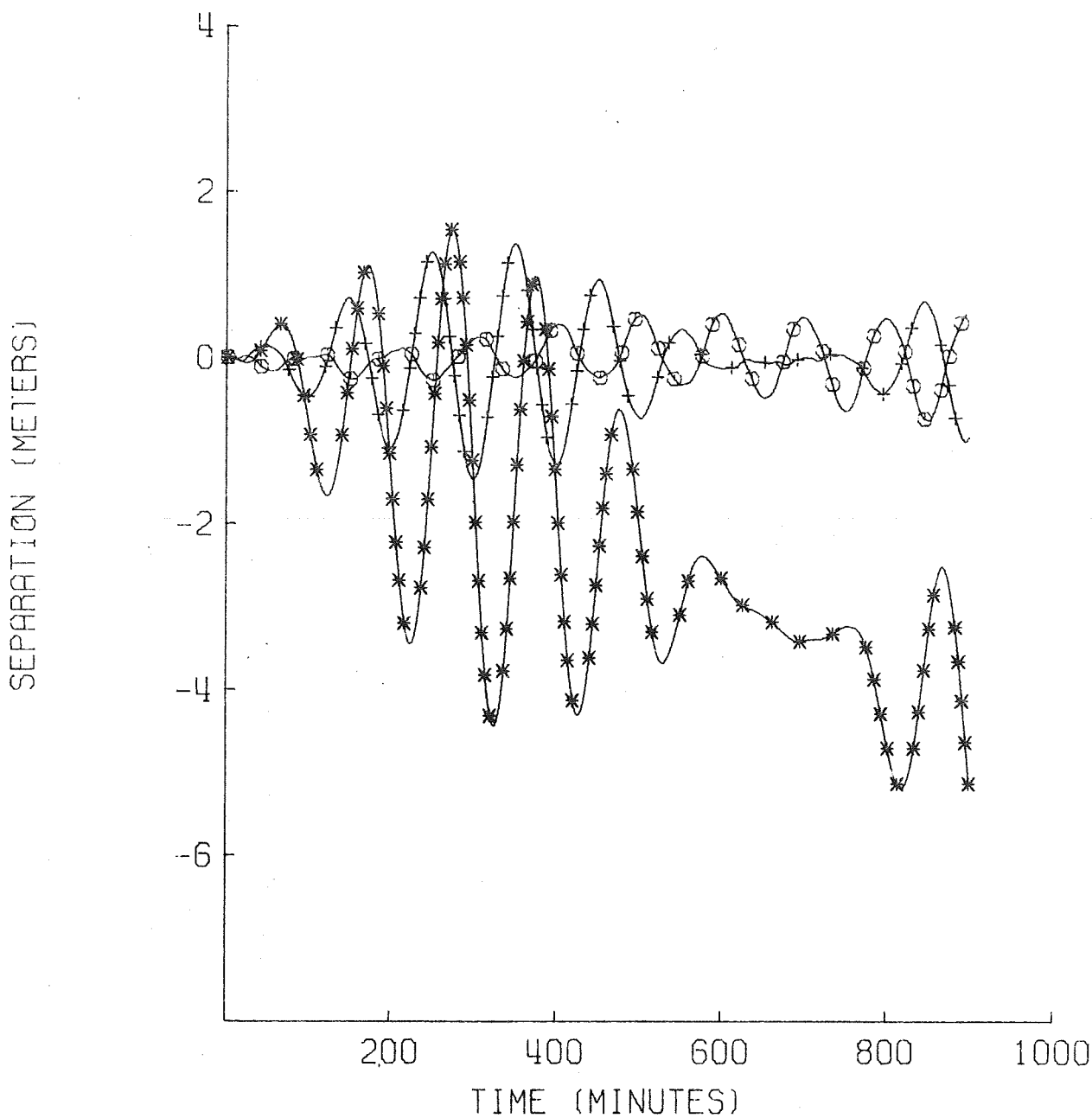
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(11,2) = -.0287
FACTOR USED IS 1.000000

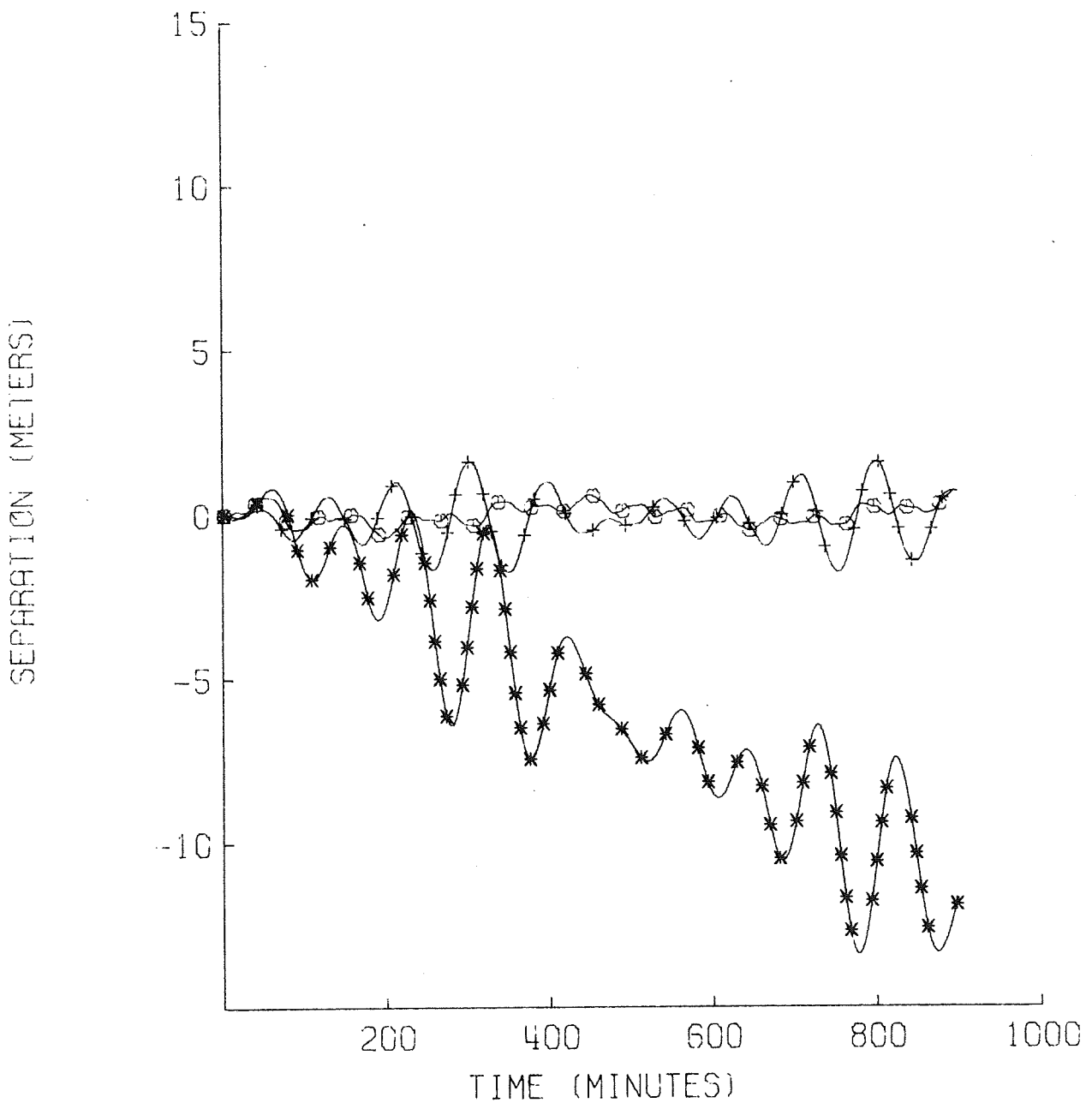
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,3) = -.0655
 FACTOR USED IS 1.000000

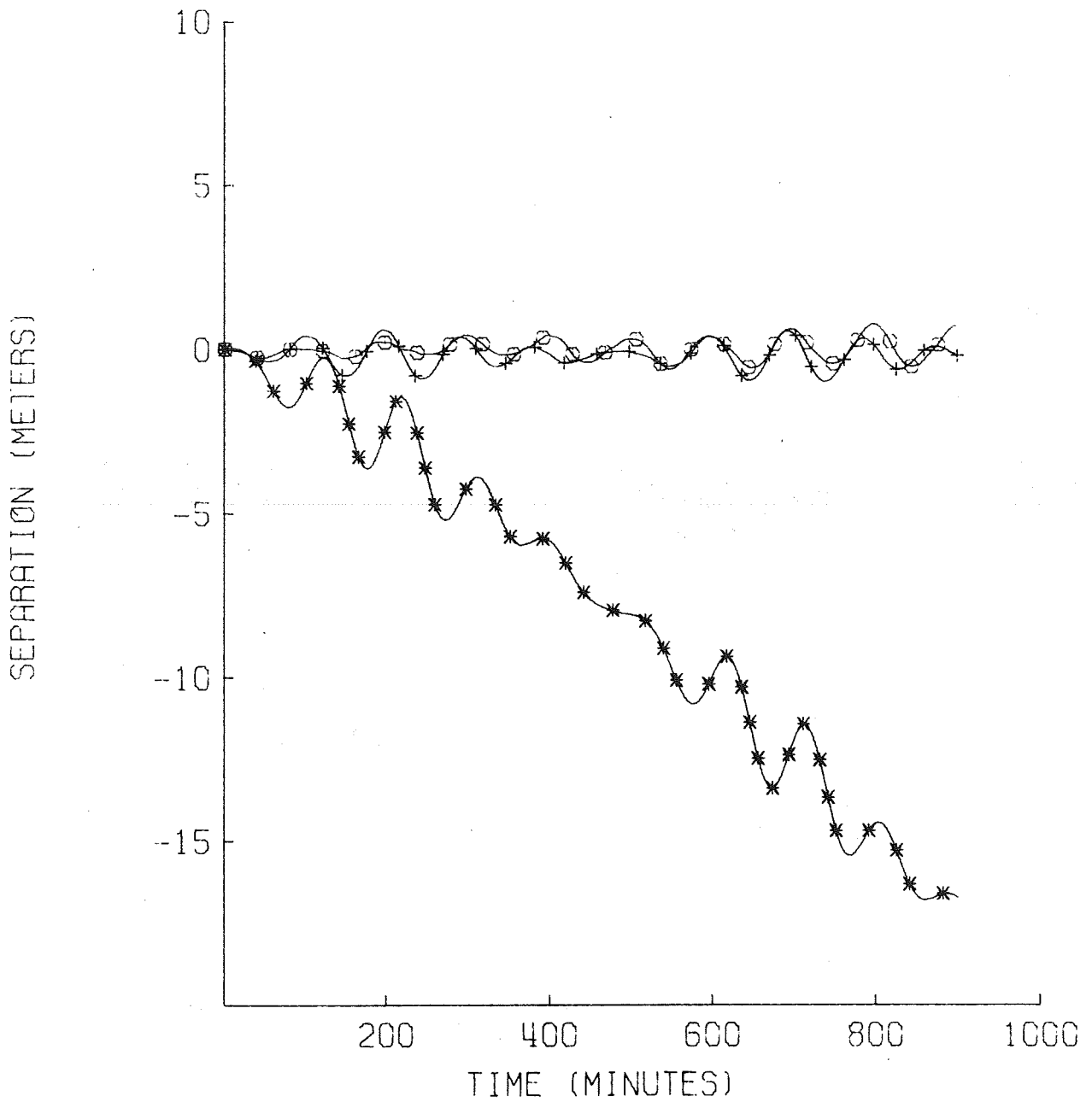
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11,3) = -.0223
 FACTOR USED IS 1.000000

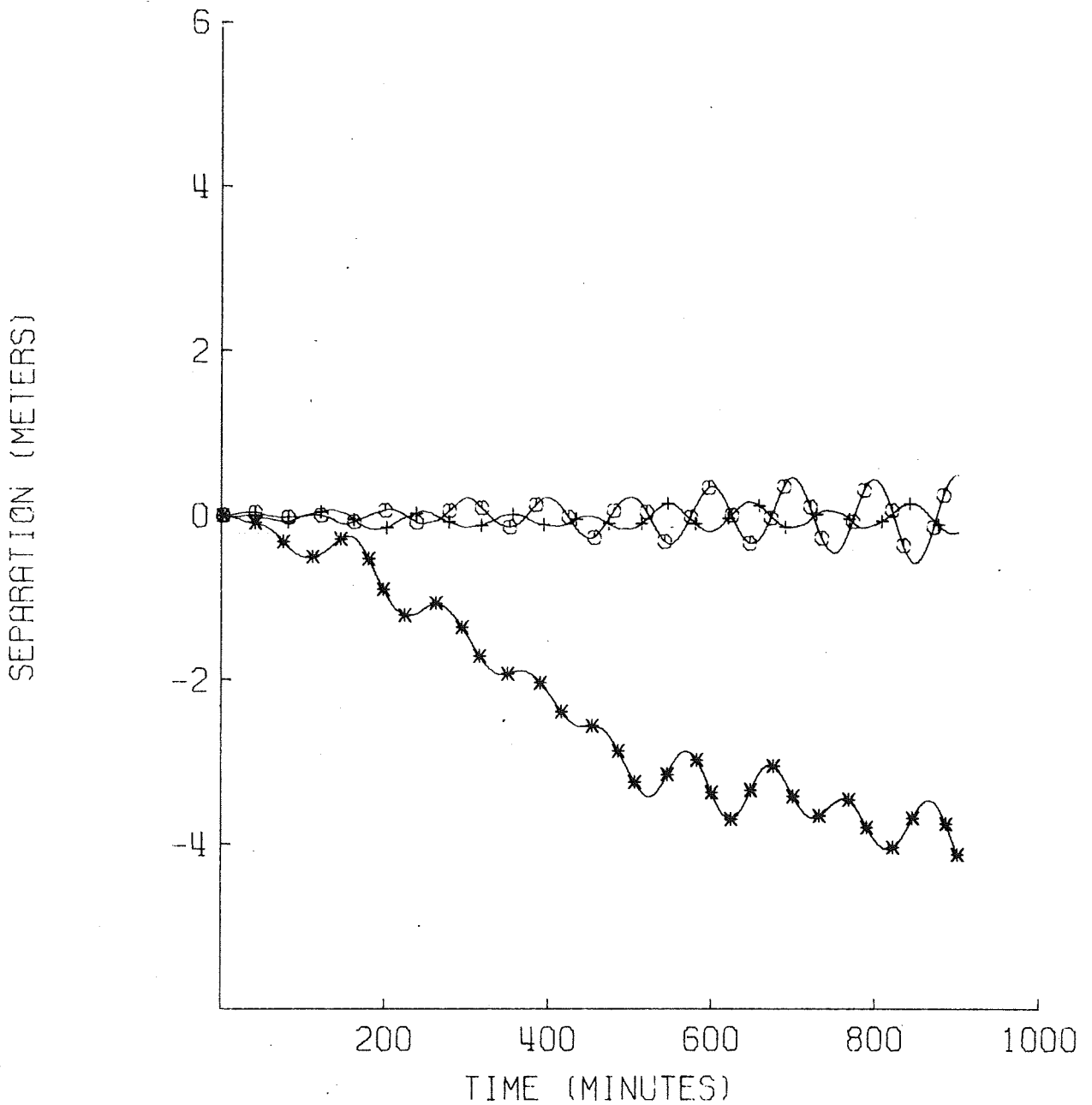
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,4) = .0057
 FACTOR USED IS 1.000000

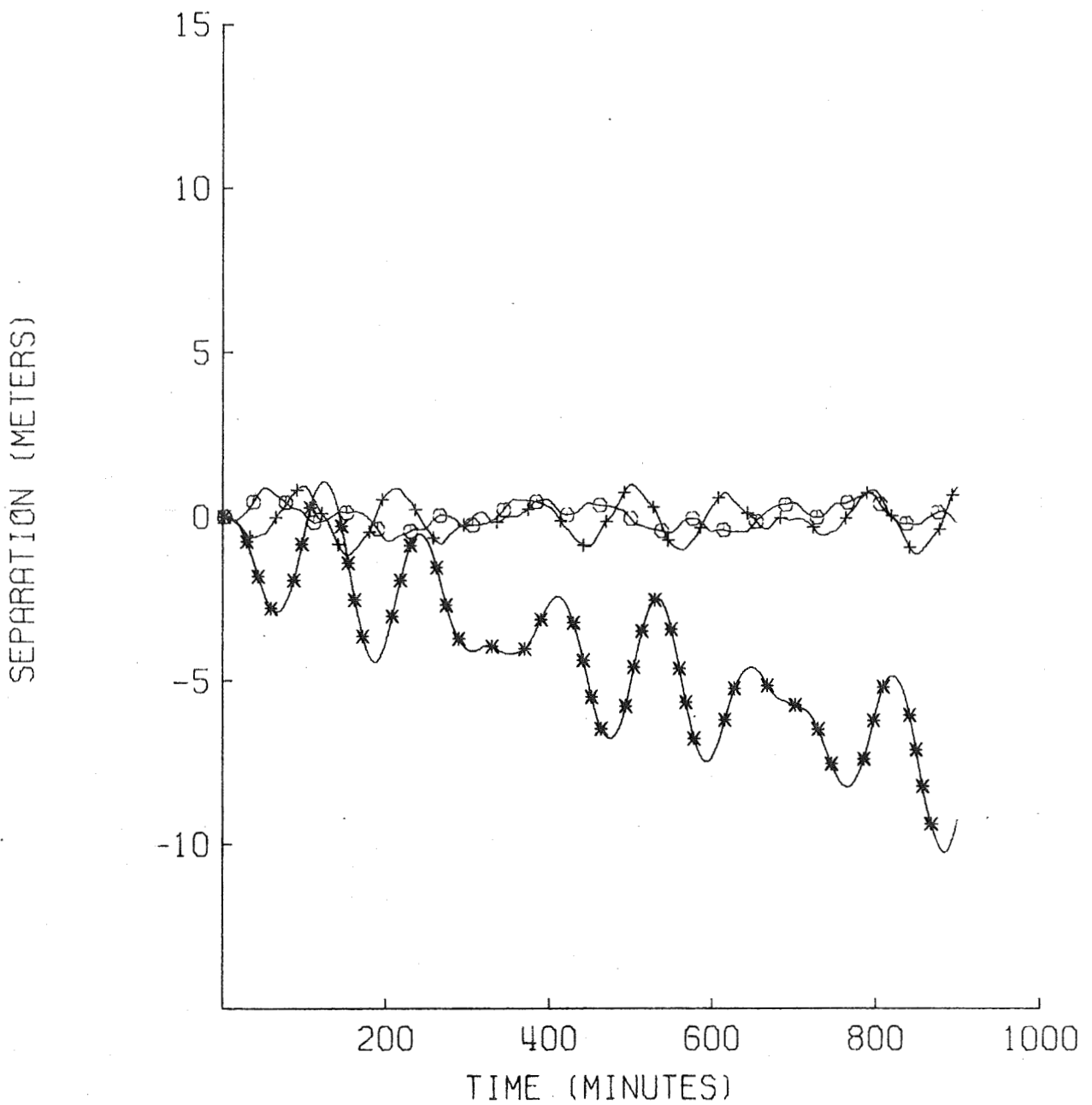
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11,4) = -.0574
 FACTOR USED IS 1.000000

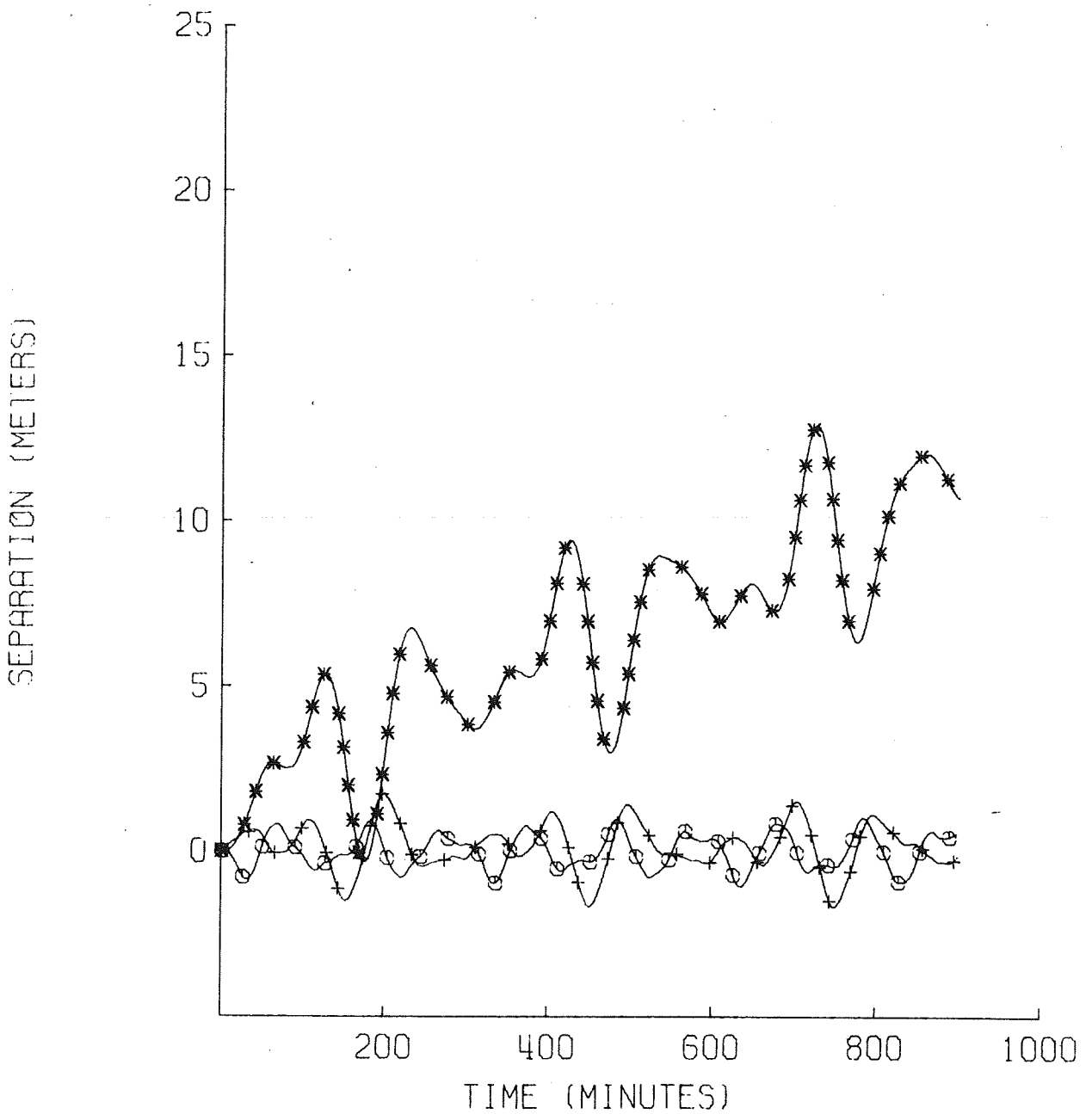
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,5) = .0647
 FACTOR USED IS 1.000000

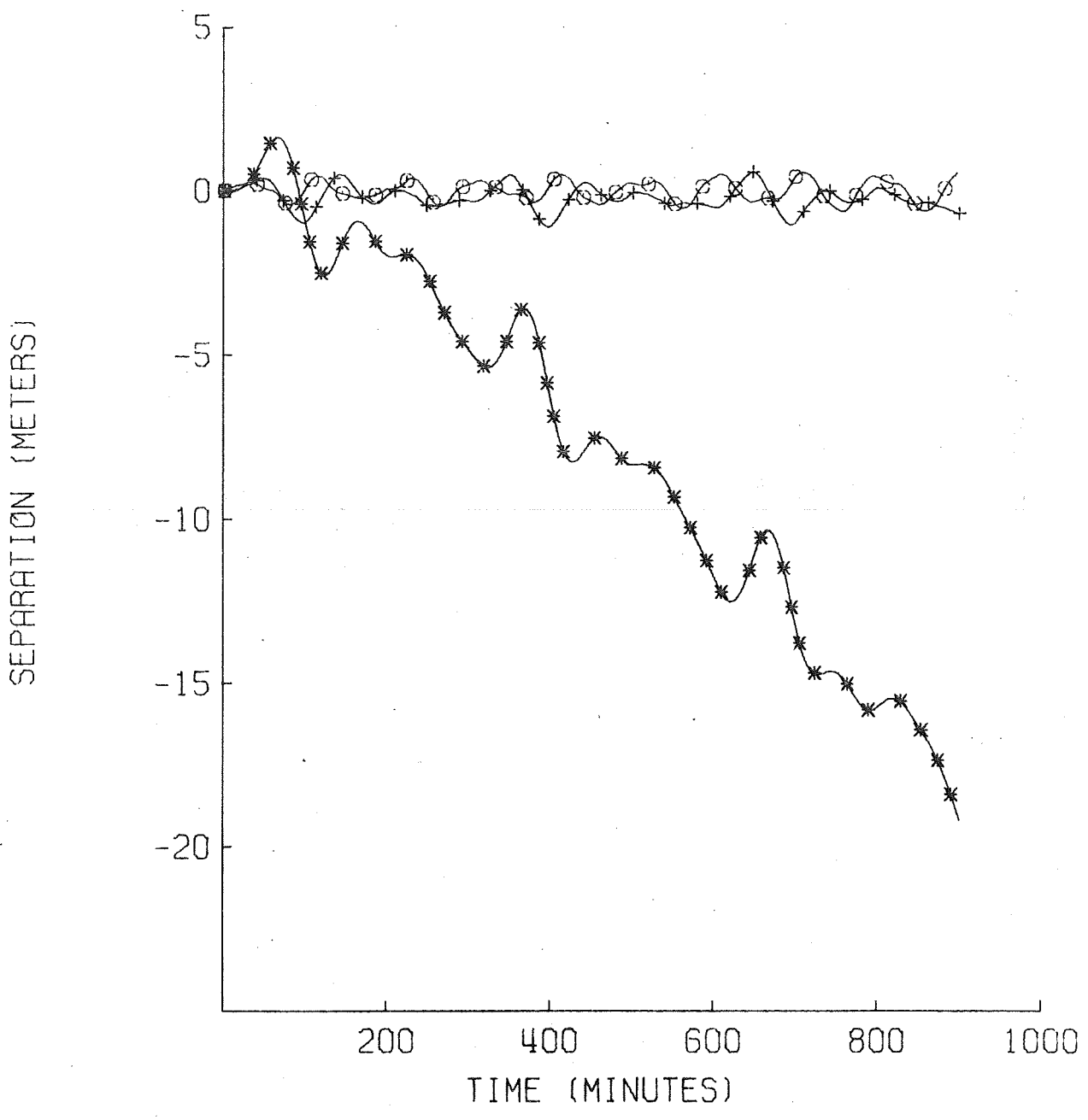
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11,5) = -.0346
 FACTOR USED IS 1.000000

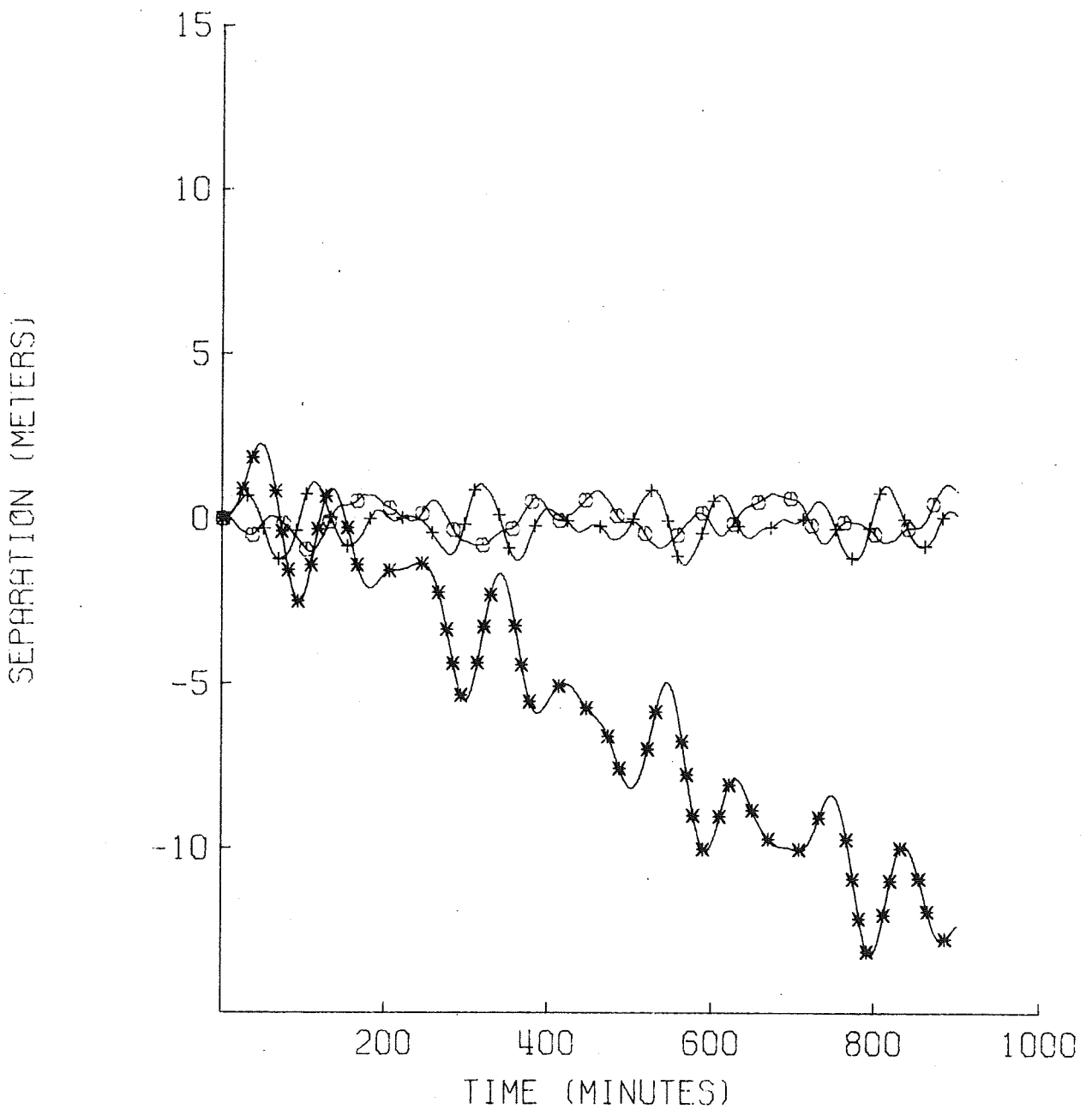
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,6) = -.0530
 FACTOR USED IS 1.000000

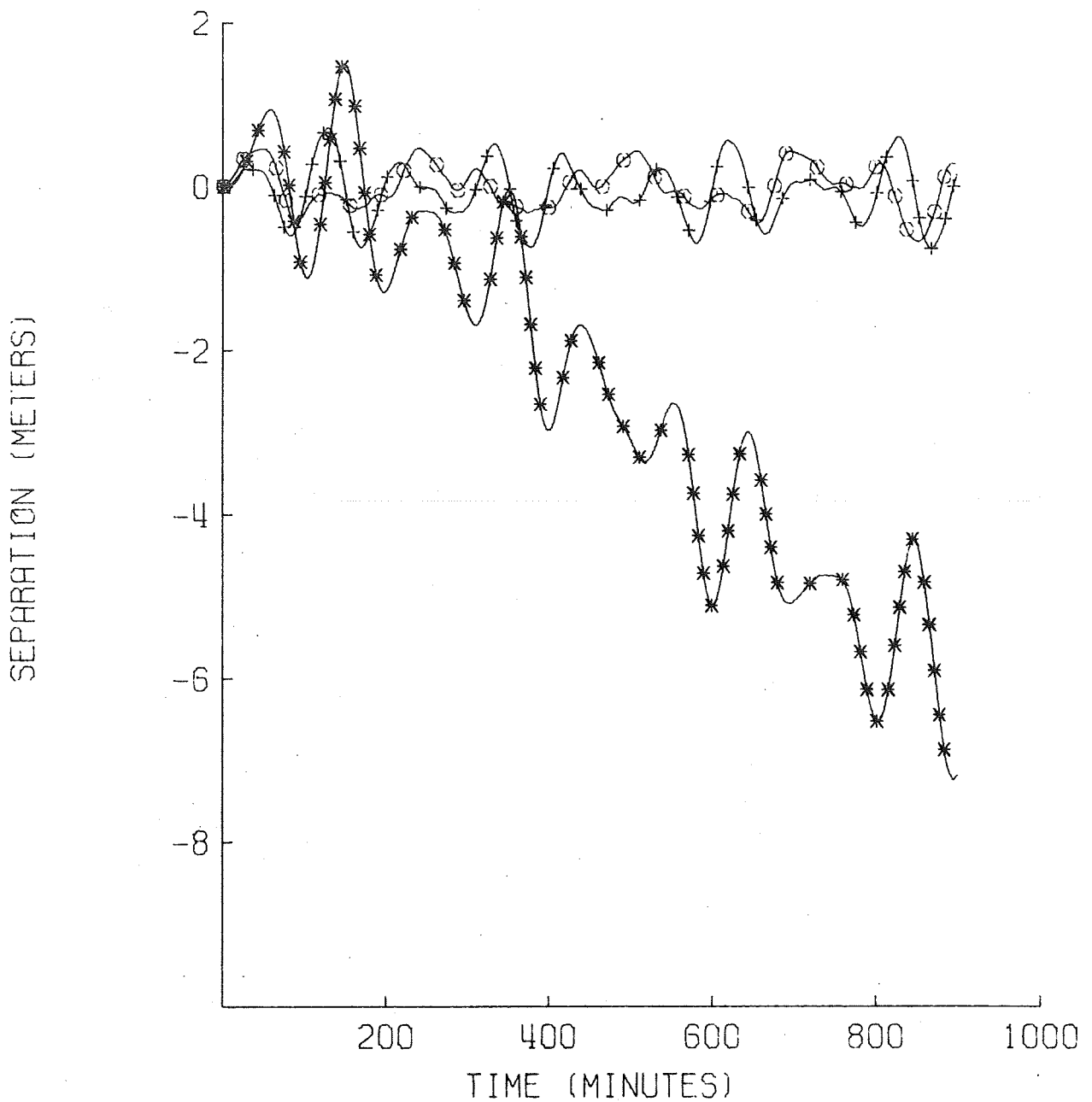
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11.6) = .0262
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

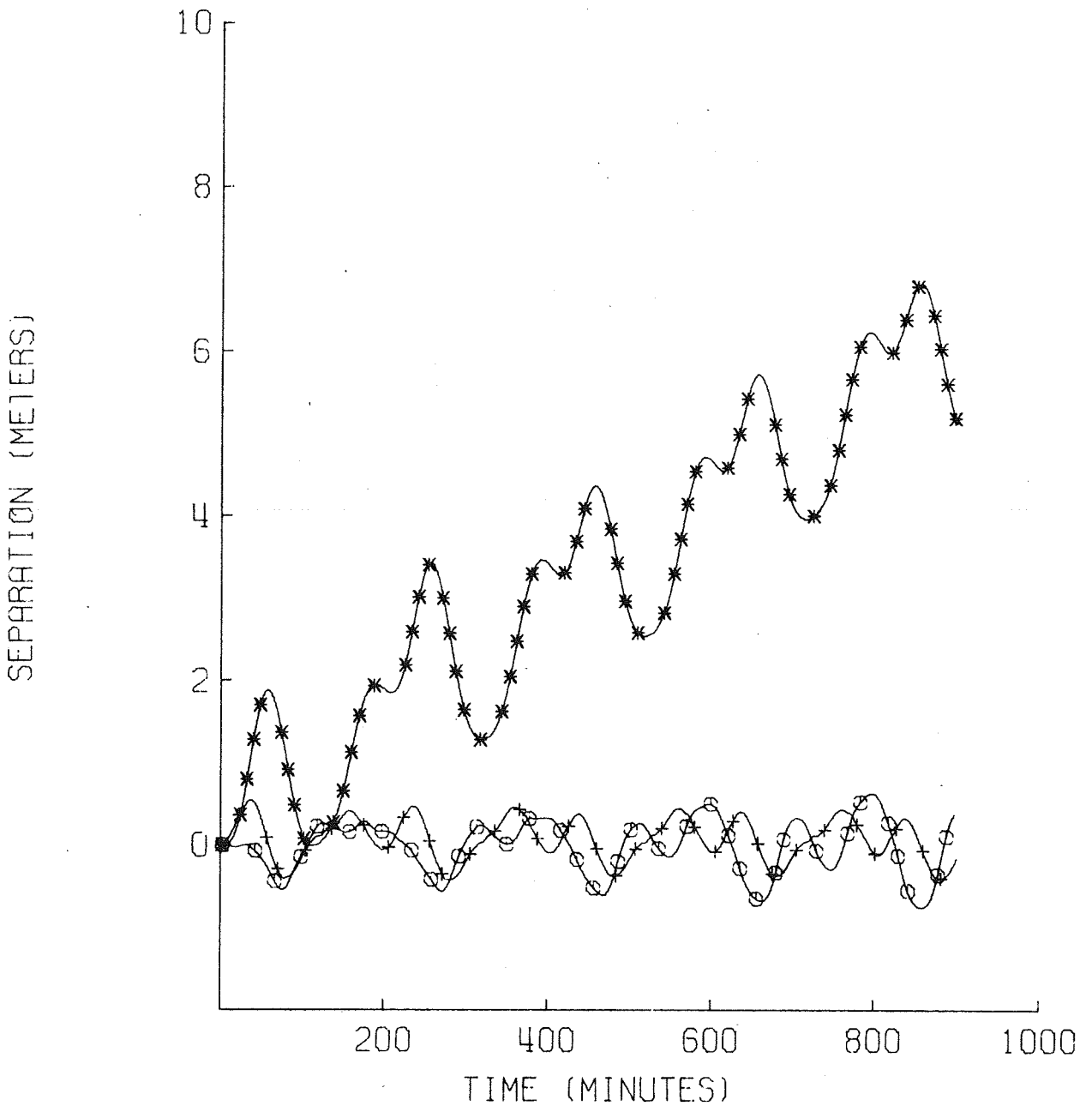
RUN FOR C(11,7) = .0218

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

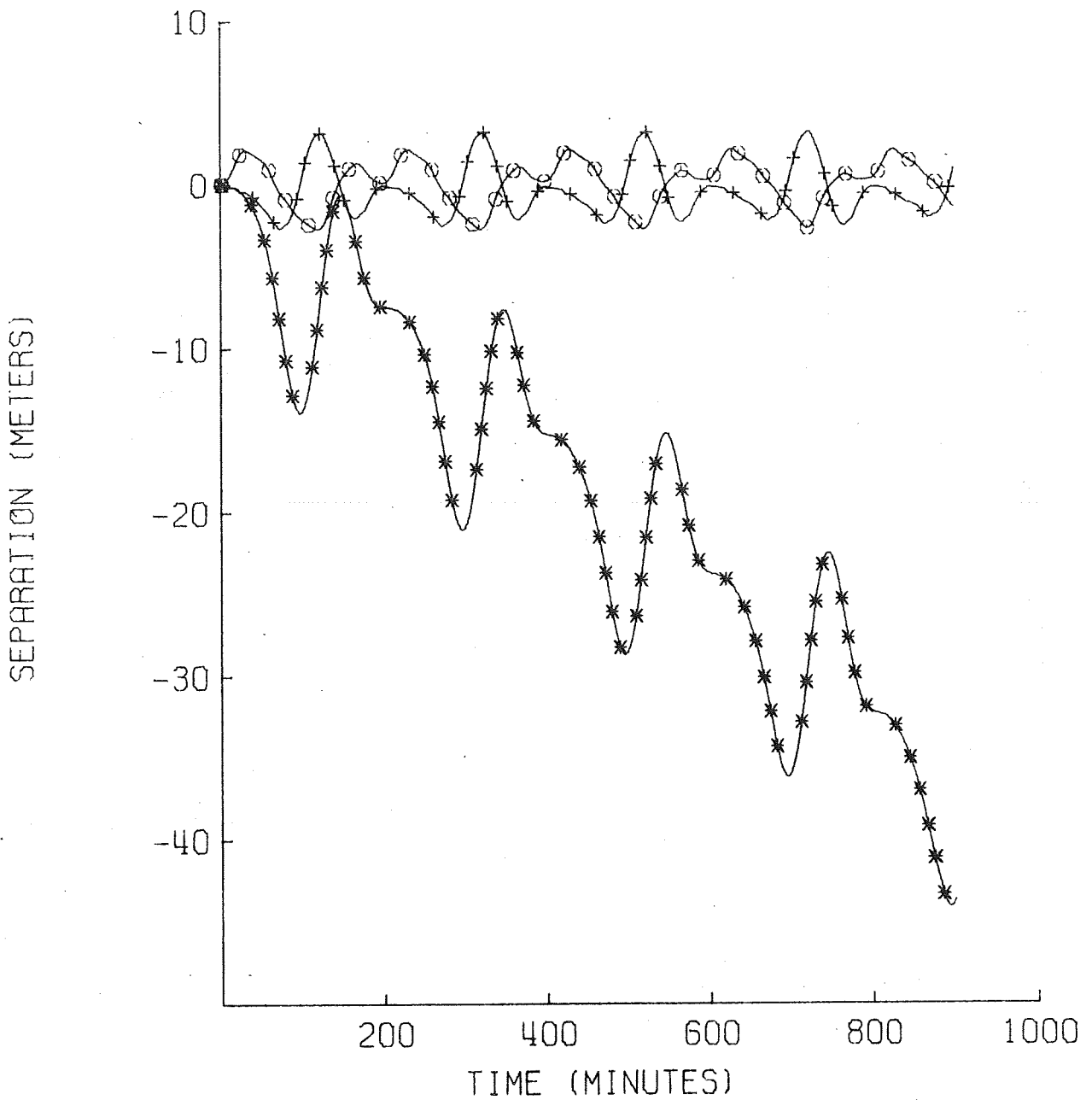
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(11,7) = -.1165
FACTOR USED IS 1.000000

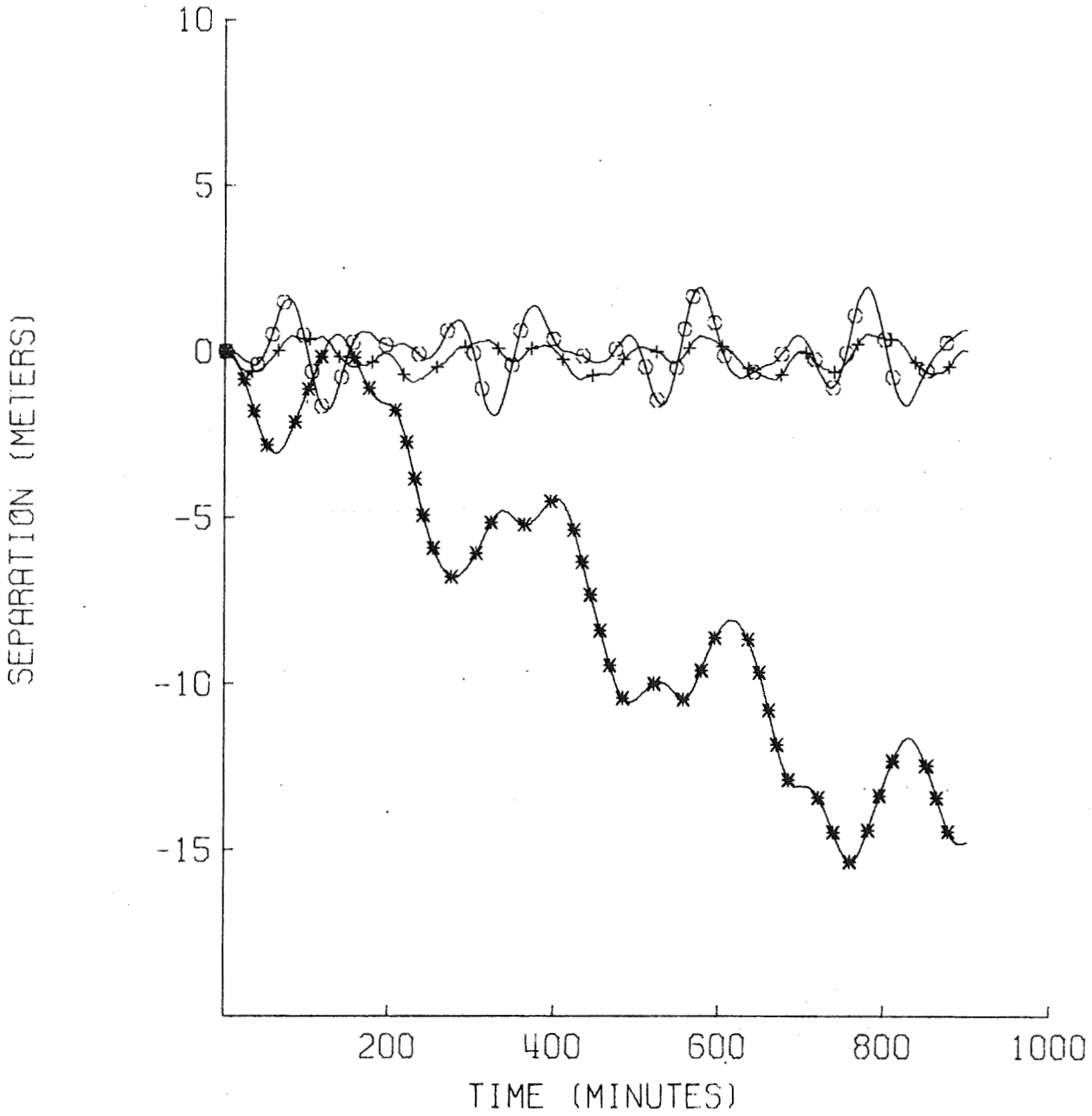
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(11.8) = .0442
FACTOR USED IS 1.000000

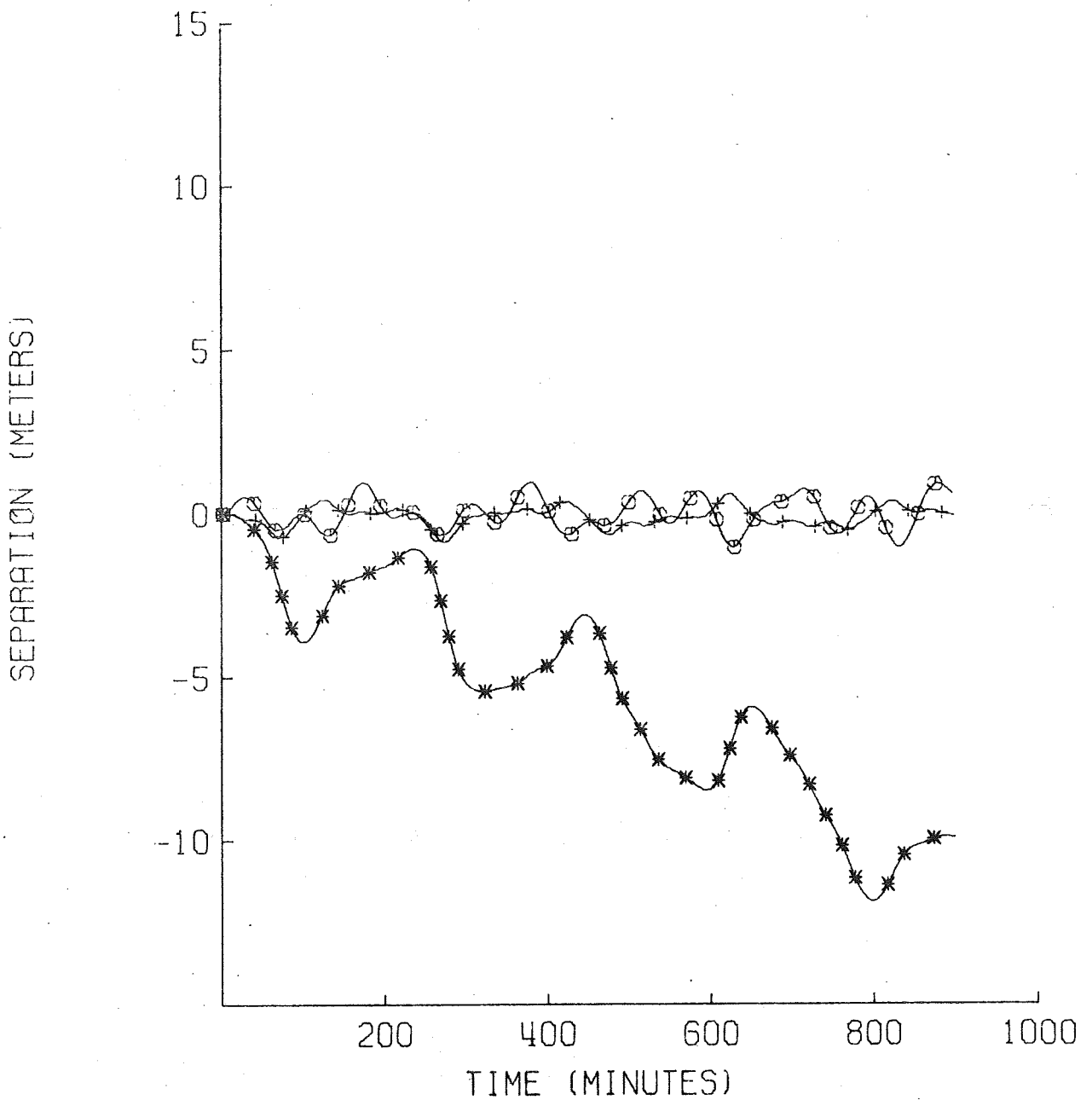
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(11,8) = .0348
FACTOR USED IS 1.000000

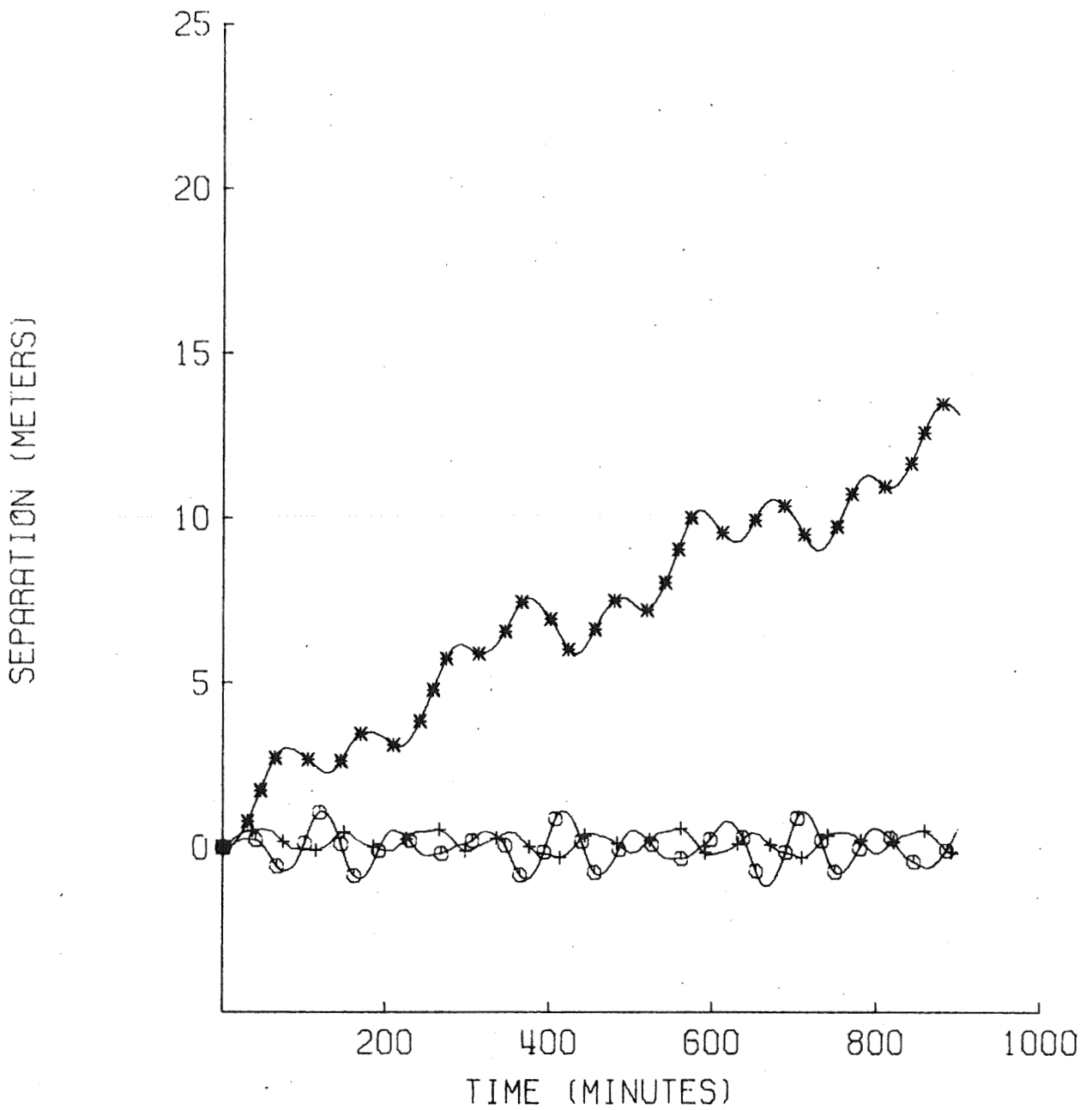
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11.9) = .0257
 FACTOR USED IS 1.000000

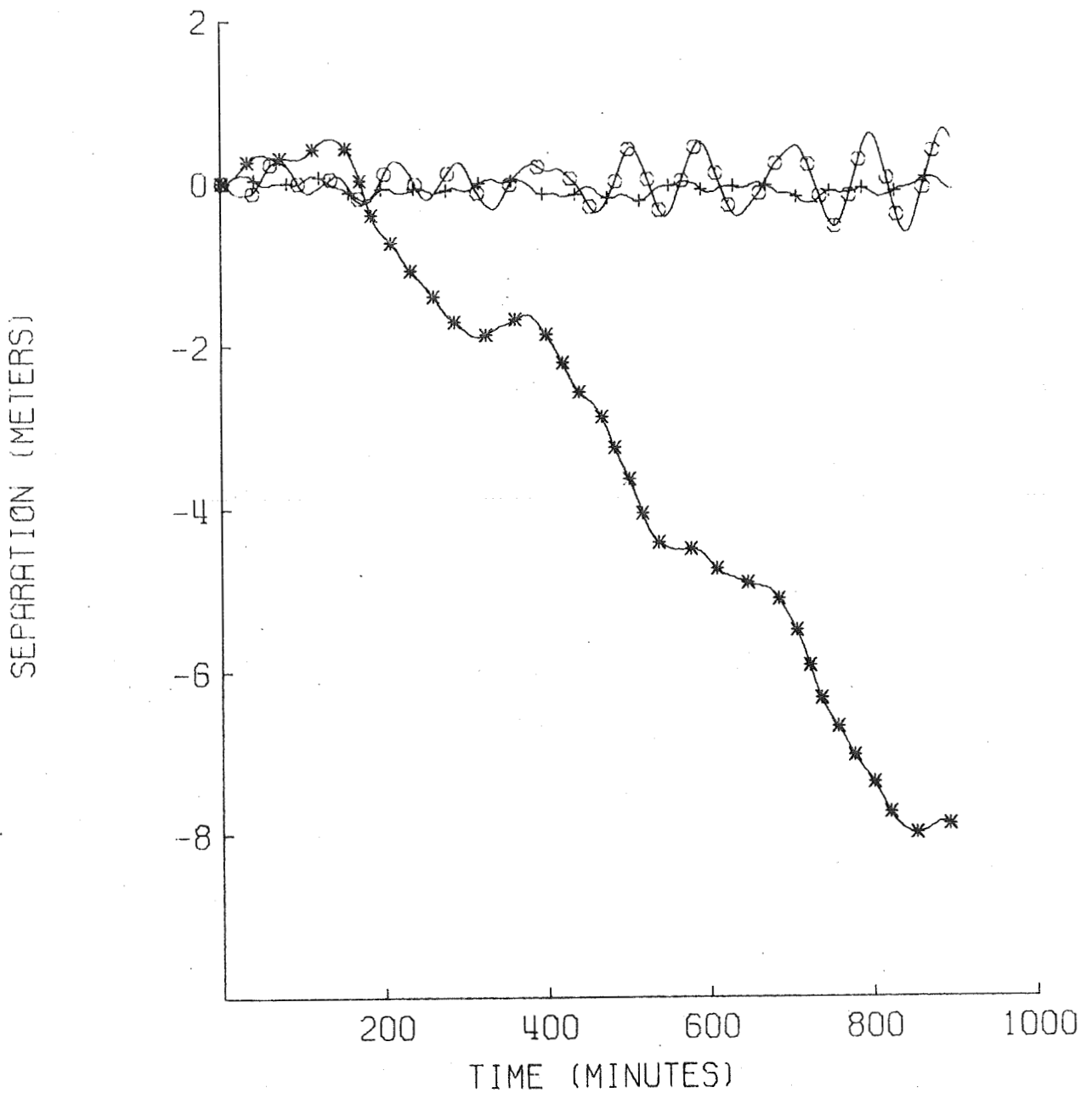
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11,9) = .0139
 FACTOR USED IS 1.000000

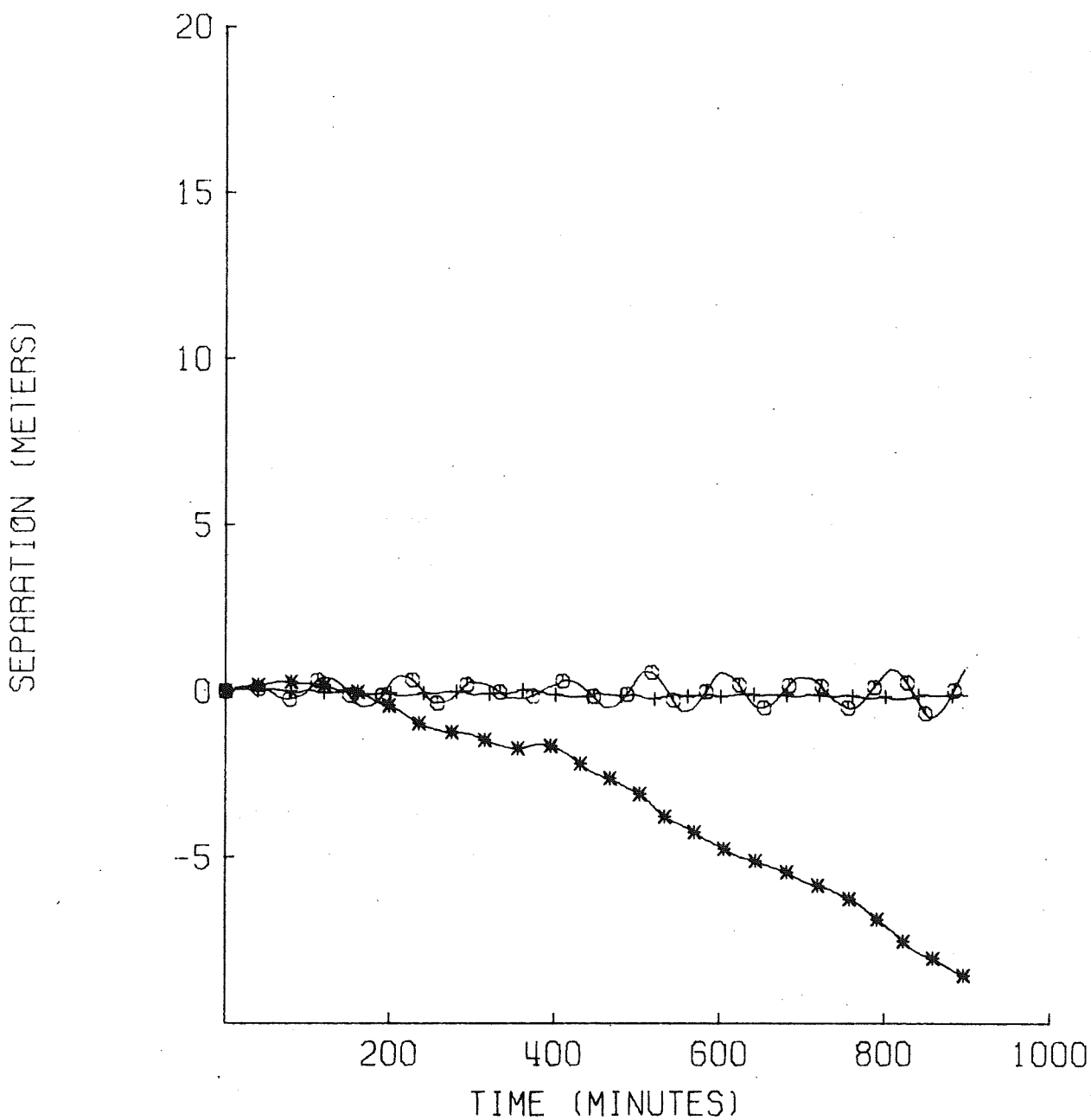
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(11,10) = -.0170
FACTOR USED IS 1.000000

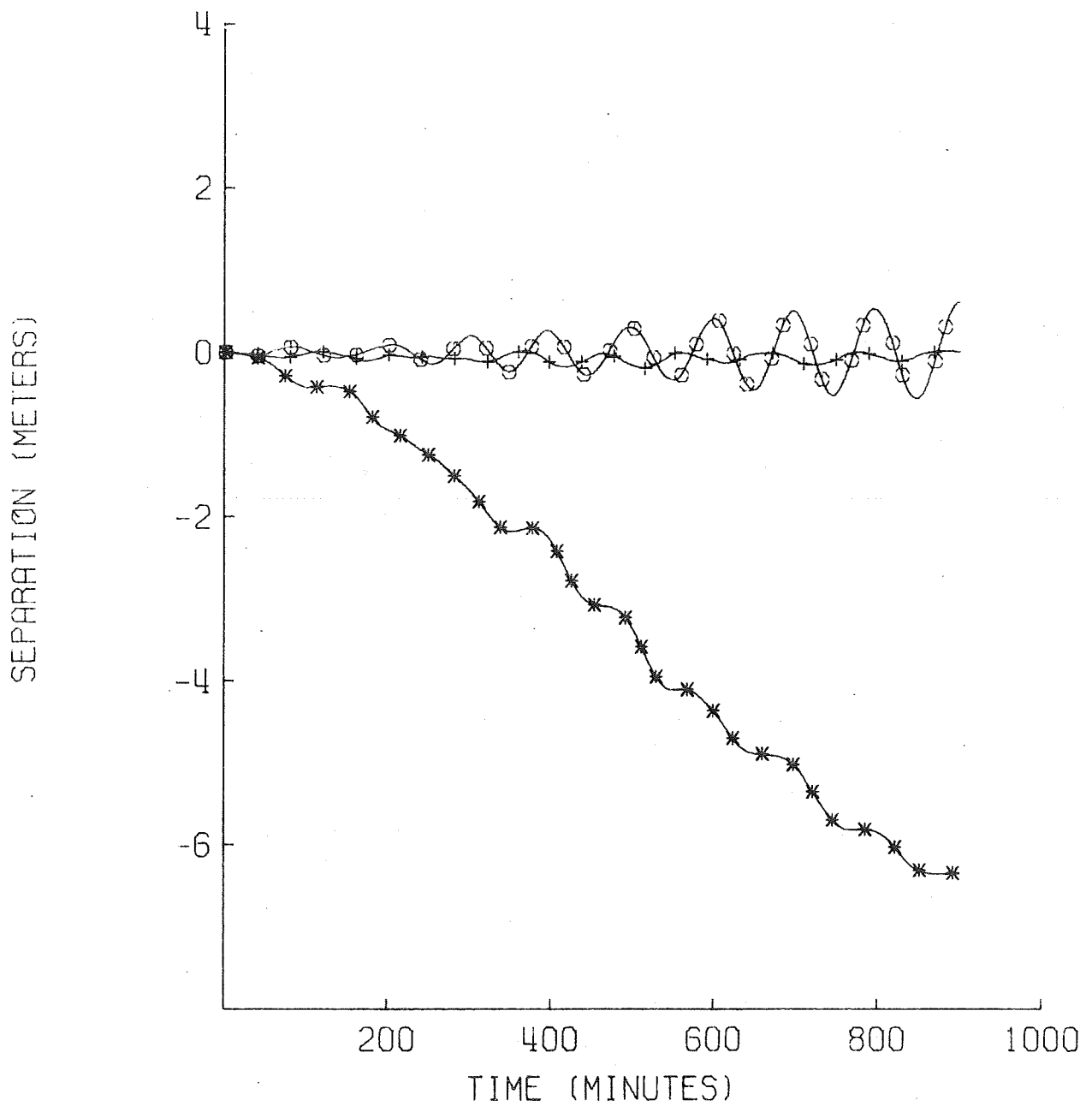
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11, 10) = -.0039
 FACTOR USED IS 1.000000

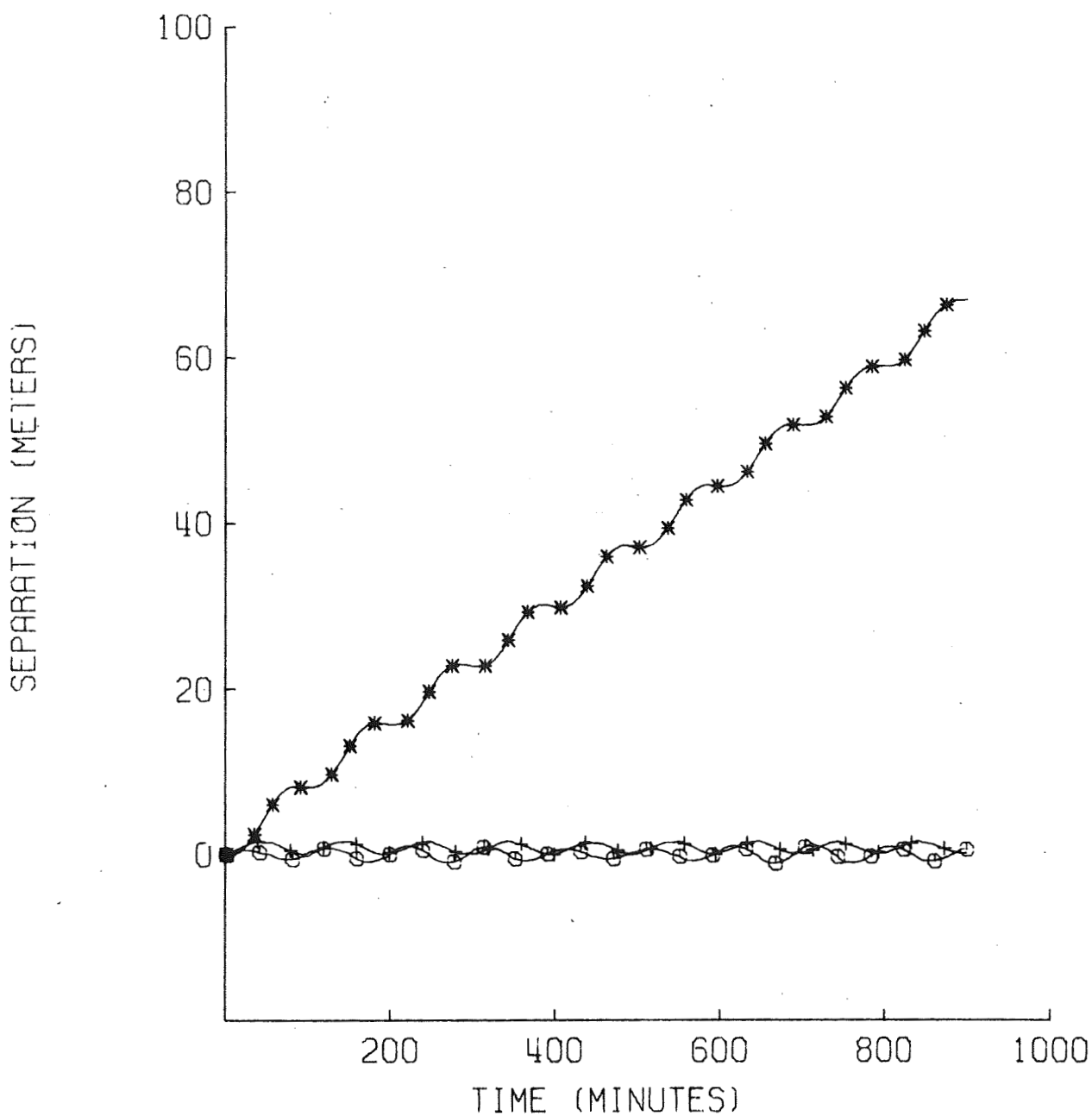
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,11) = .0642
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

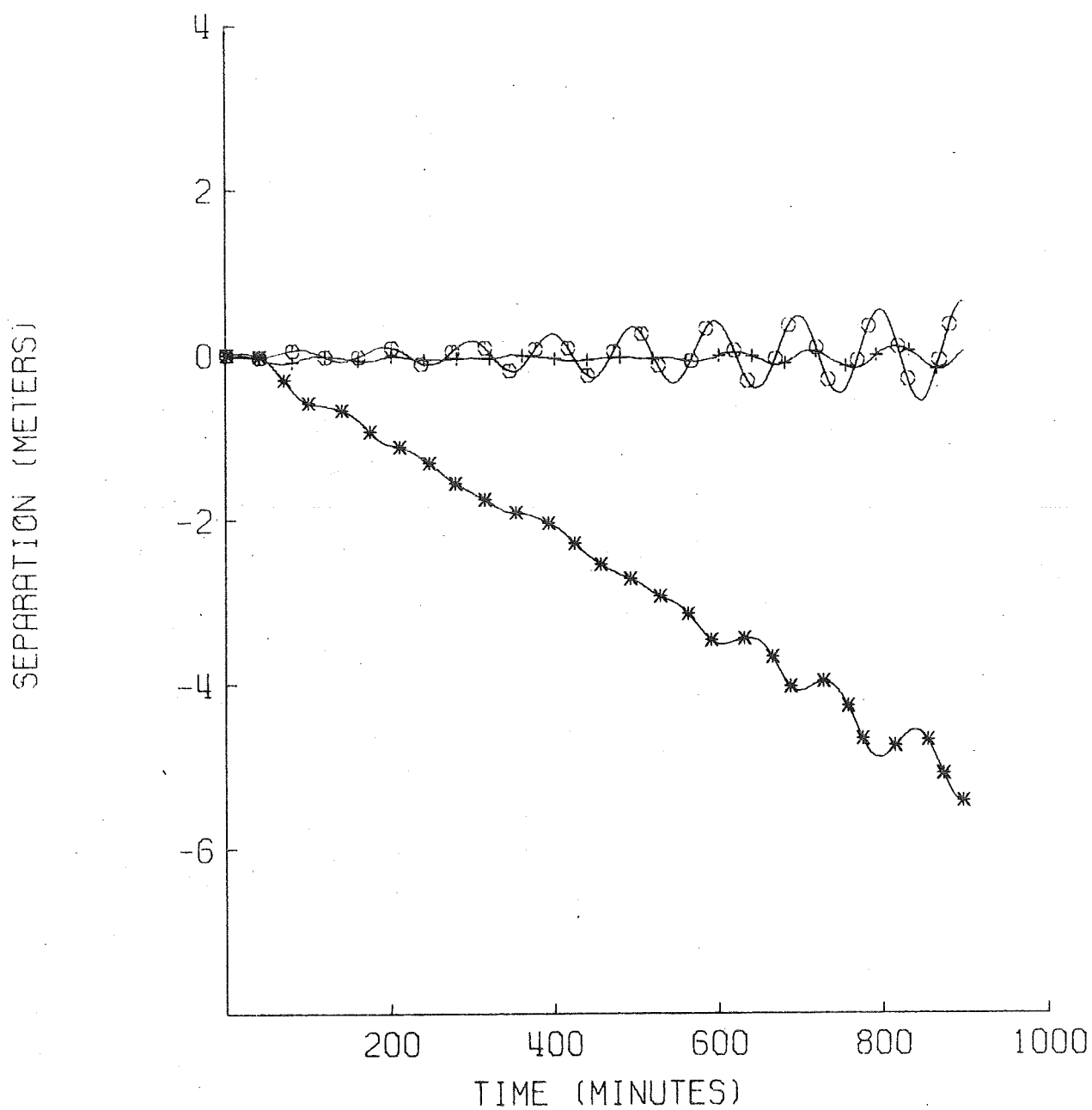


M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11, 11) = .0050

FACTOR USED IS 1.000000

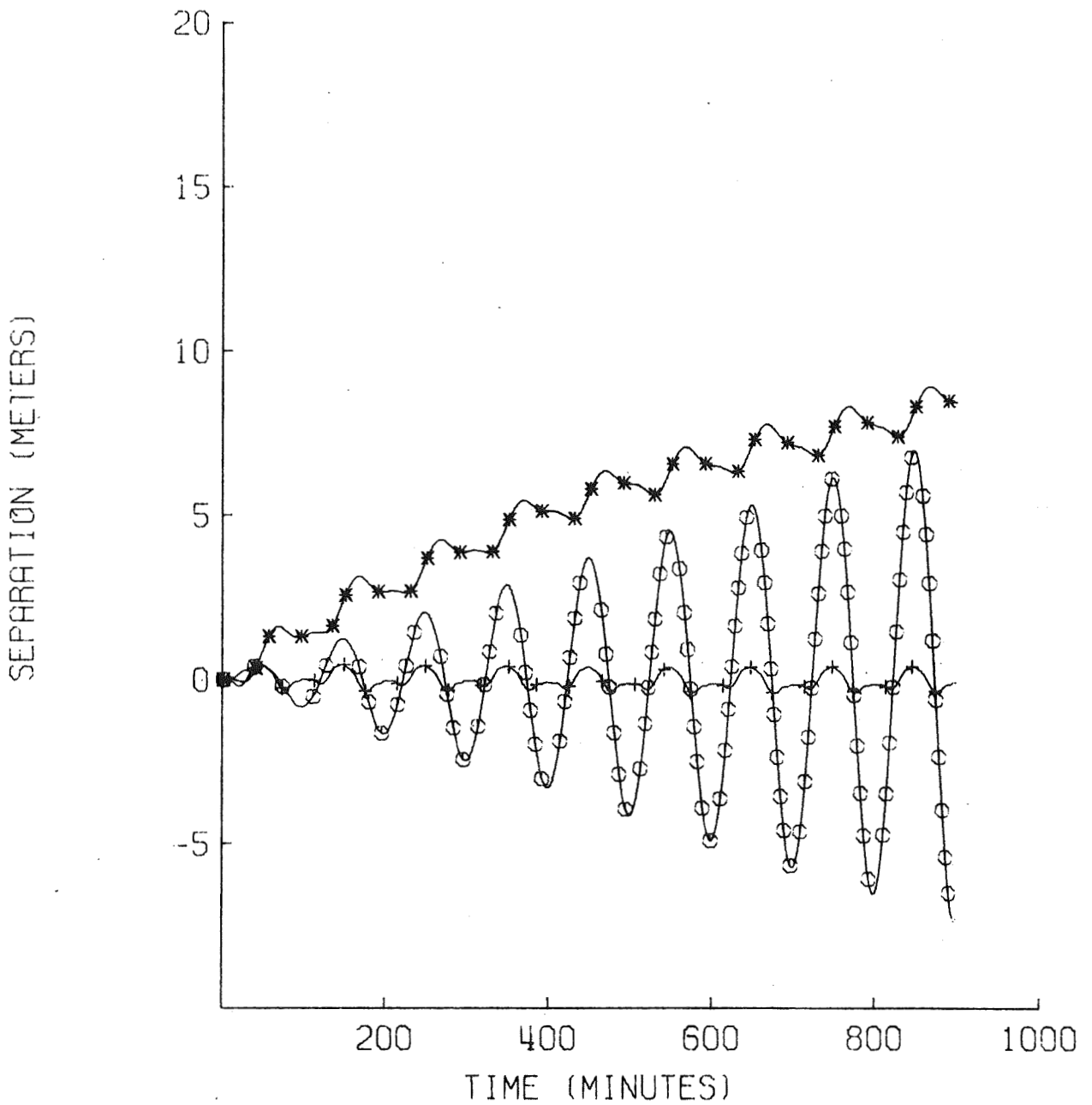
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,0) = -.0506
 FACTOR USED IS 1.000000

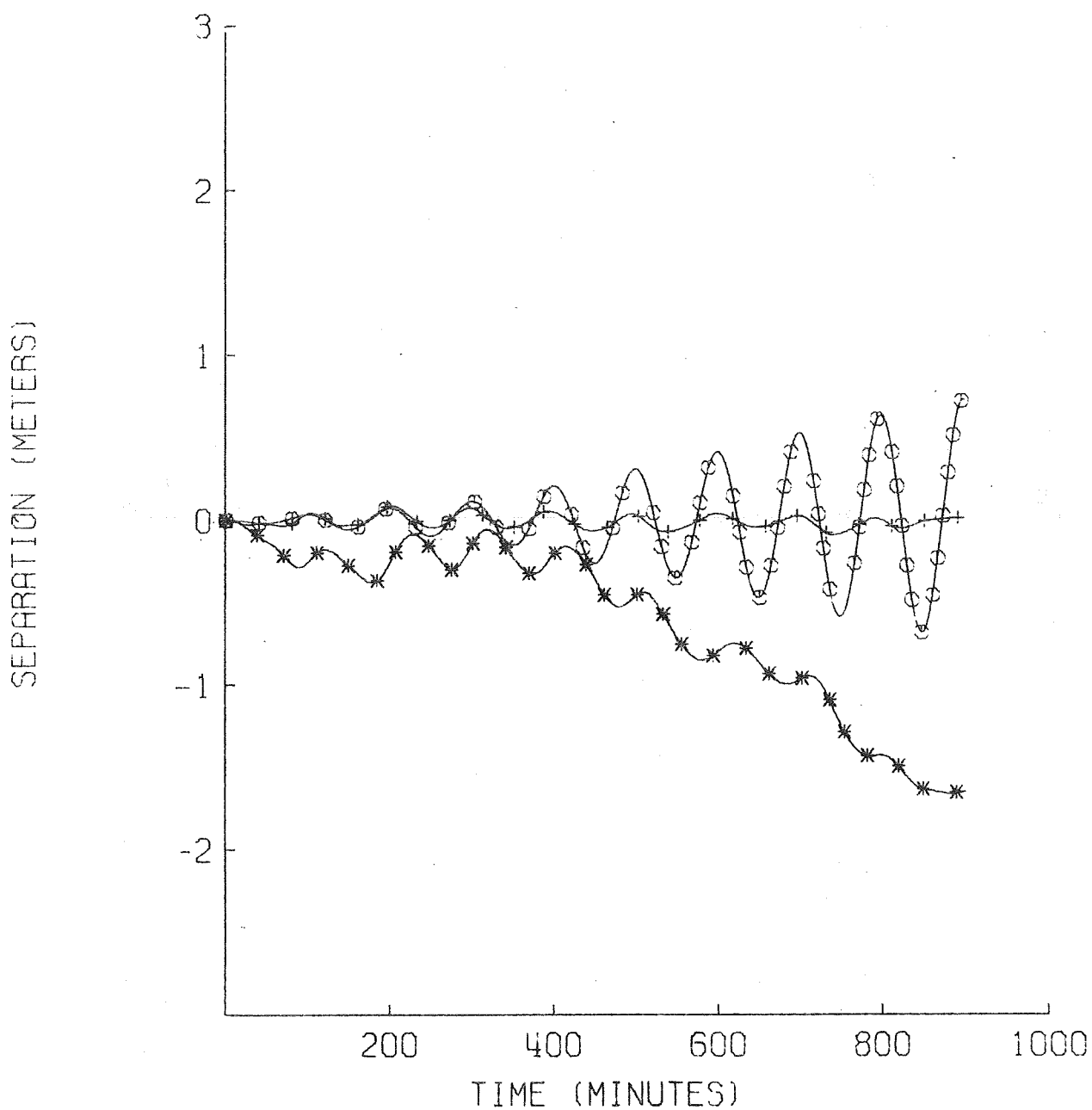
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,1) = .0021
 FACTOR USED IS 1.000000

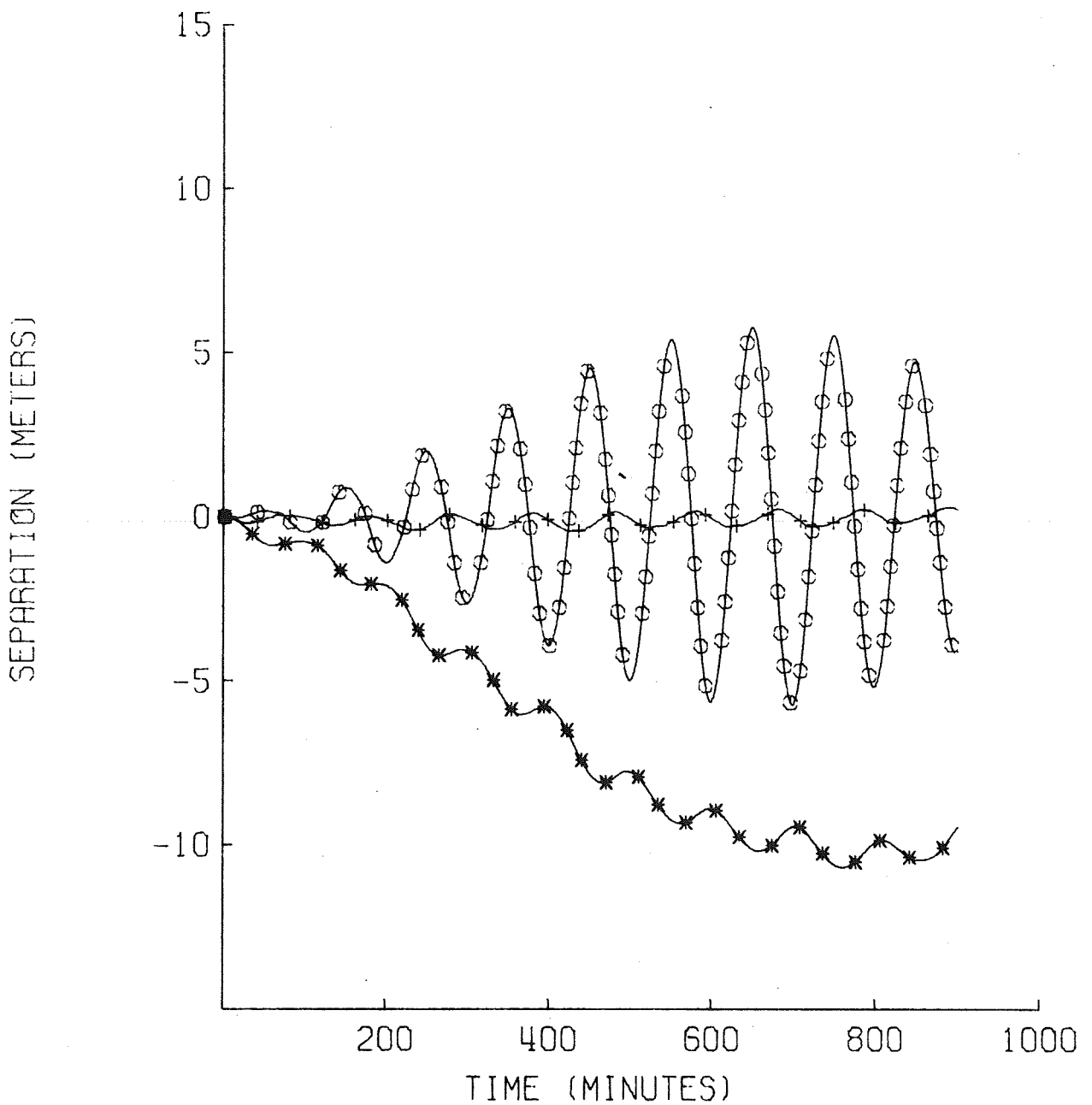
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,1) = -.0673
 FACTOR USED IS 1.000000

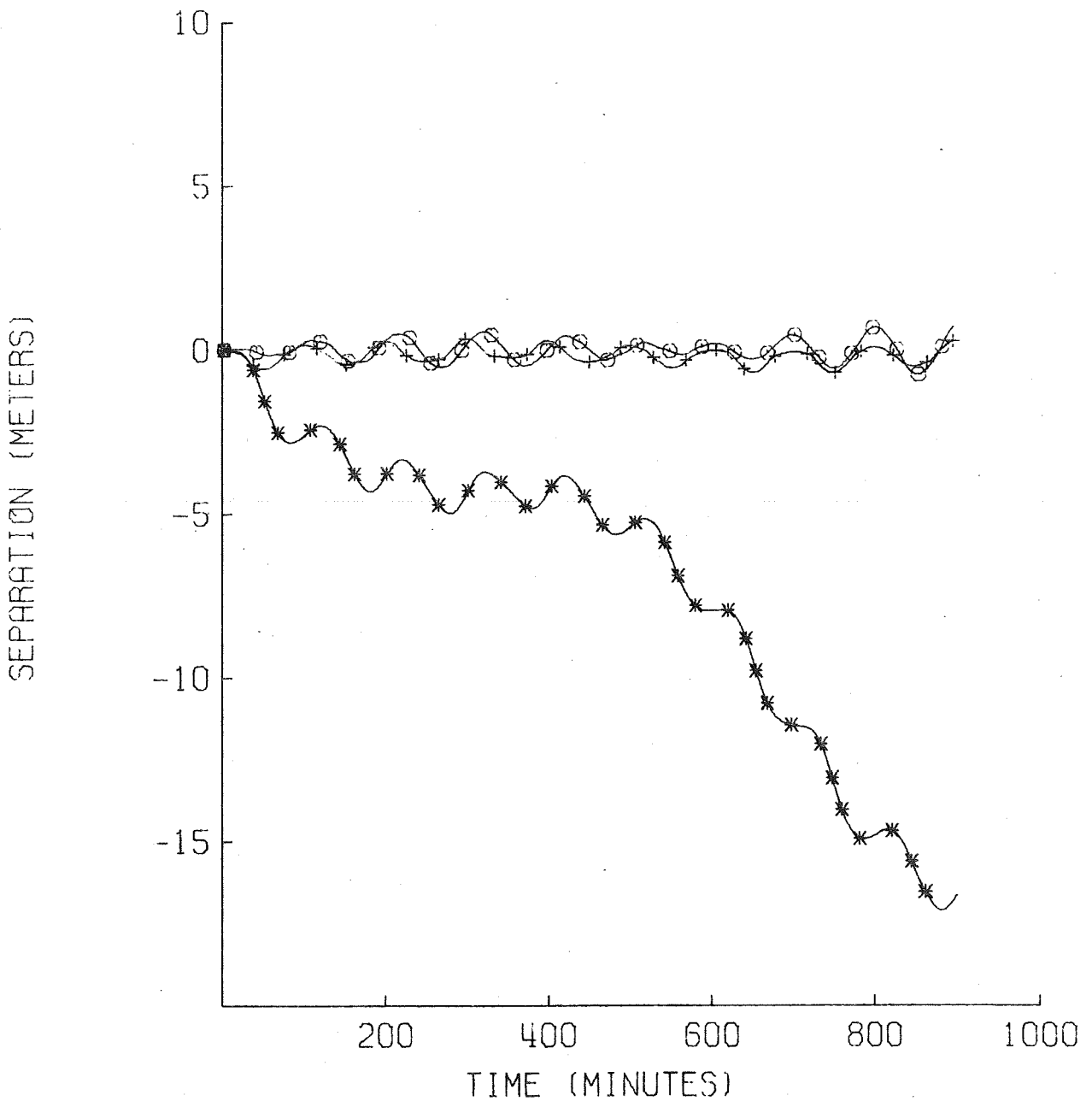
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,2) = -.0368
 FACTOR USED IS 1.000000

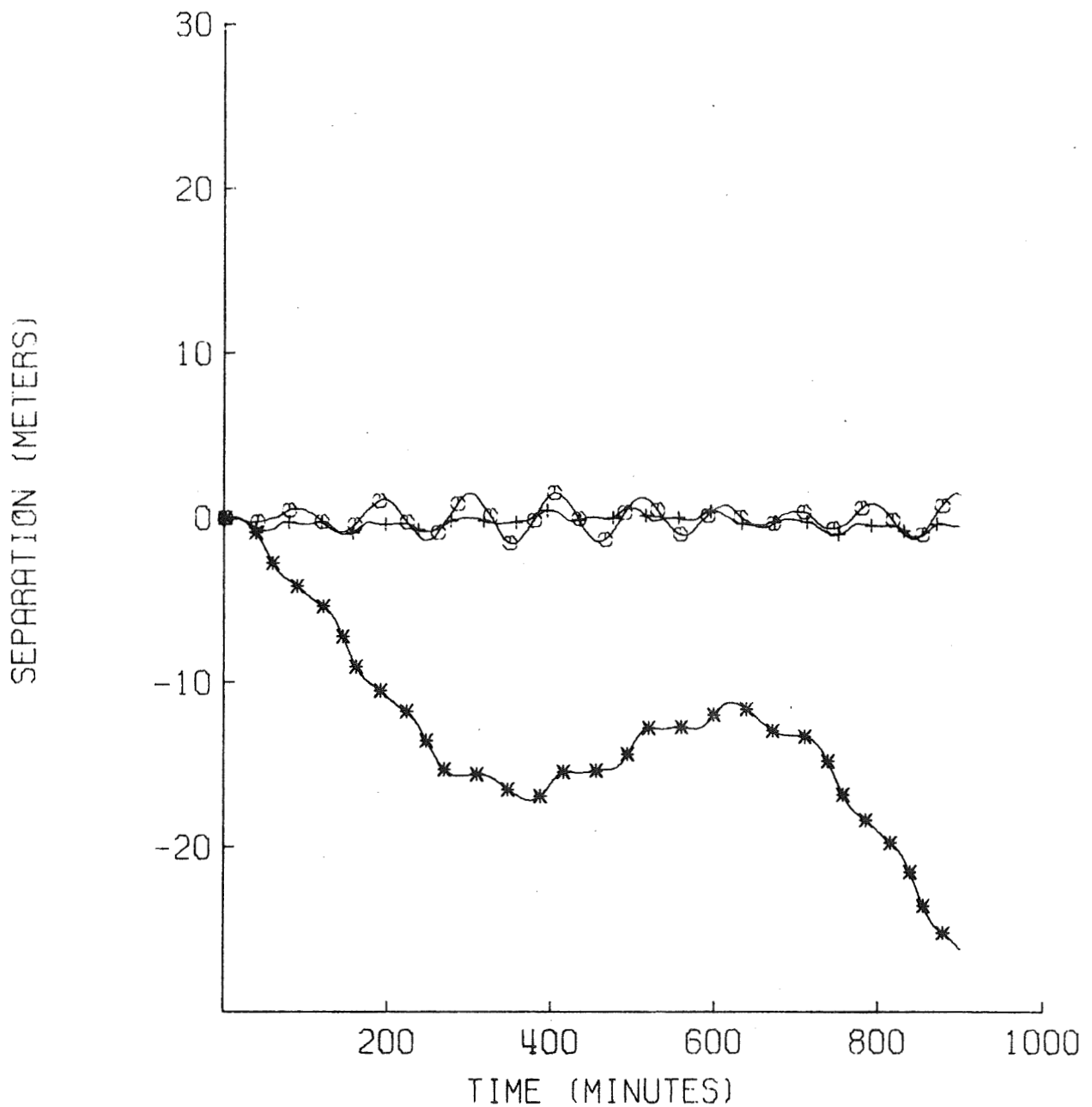
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,2) = .0903
 FACTOR USED IS 1.000000

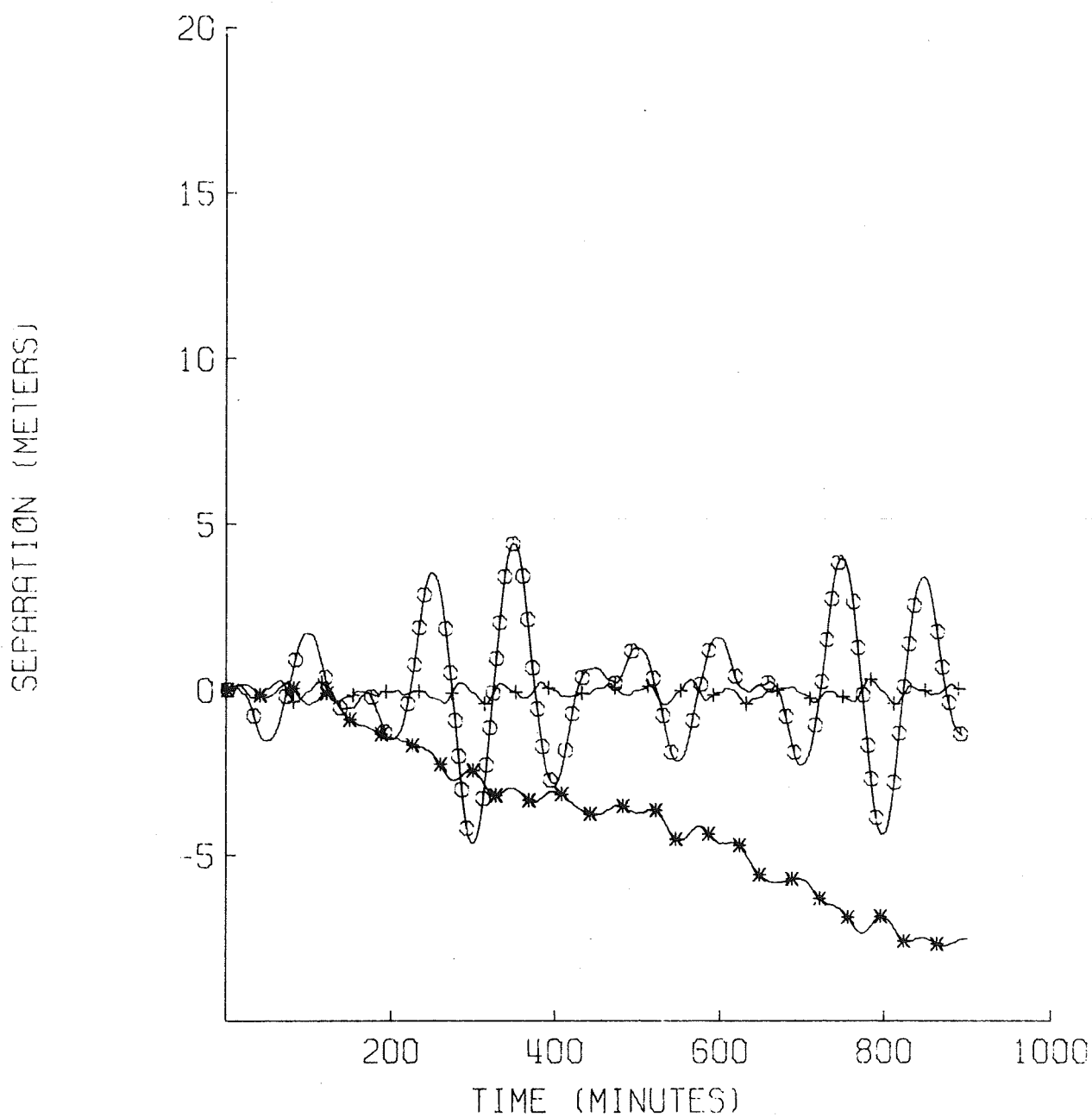
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12.3) = .1361
 FACTOR USED IS 1.000000

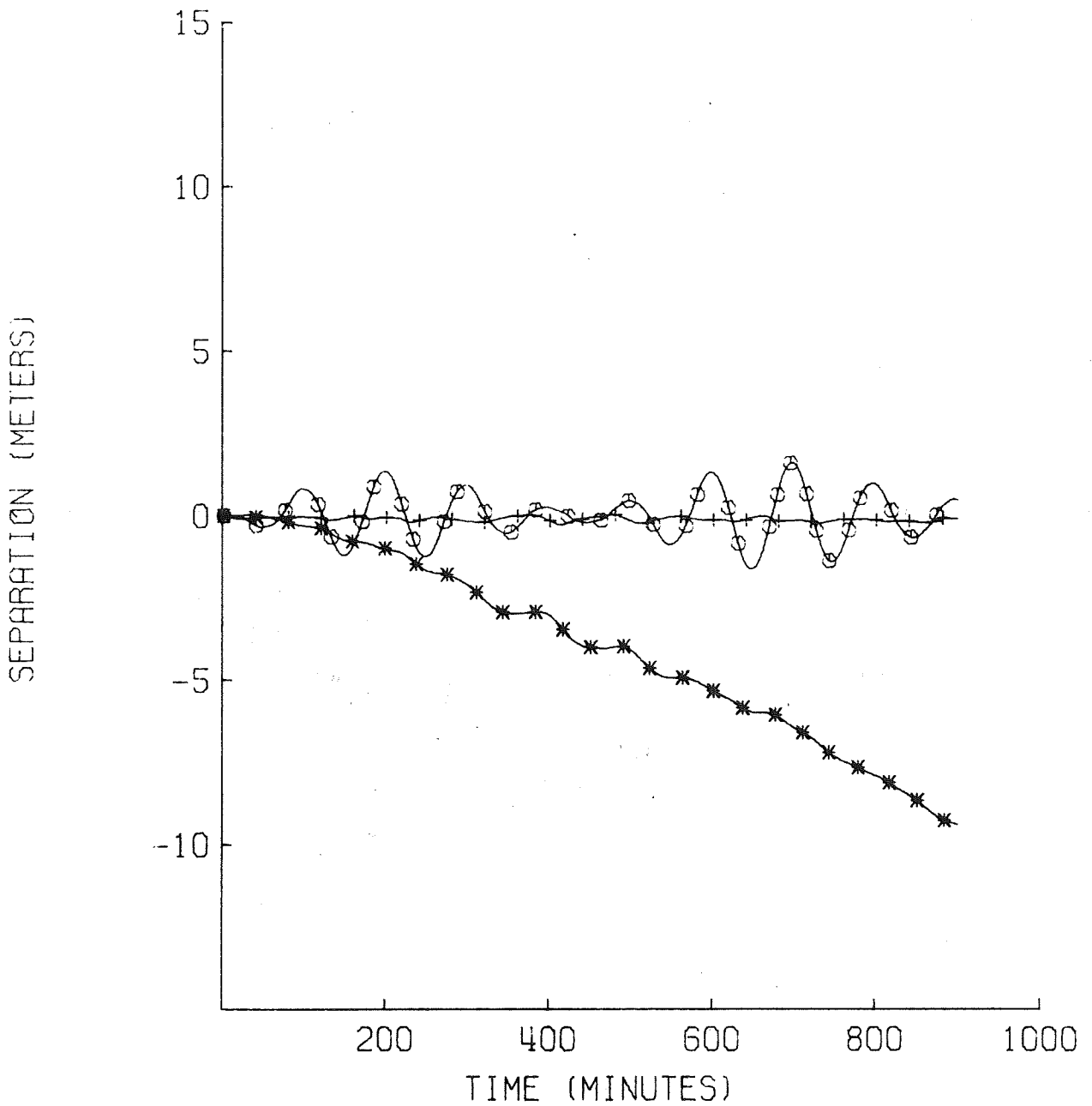
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,3) = -.0263
 FACTOR USED IS 1.000000

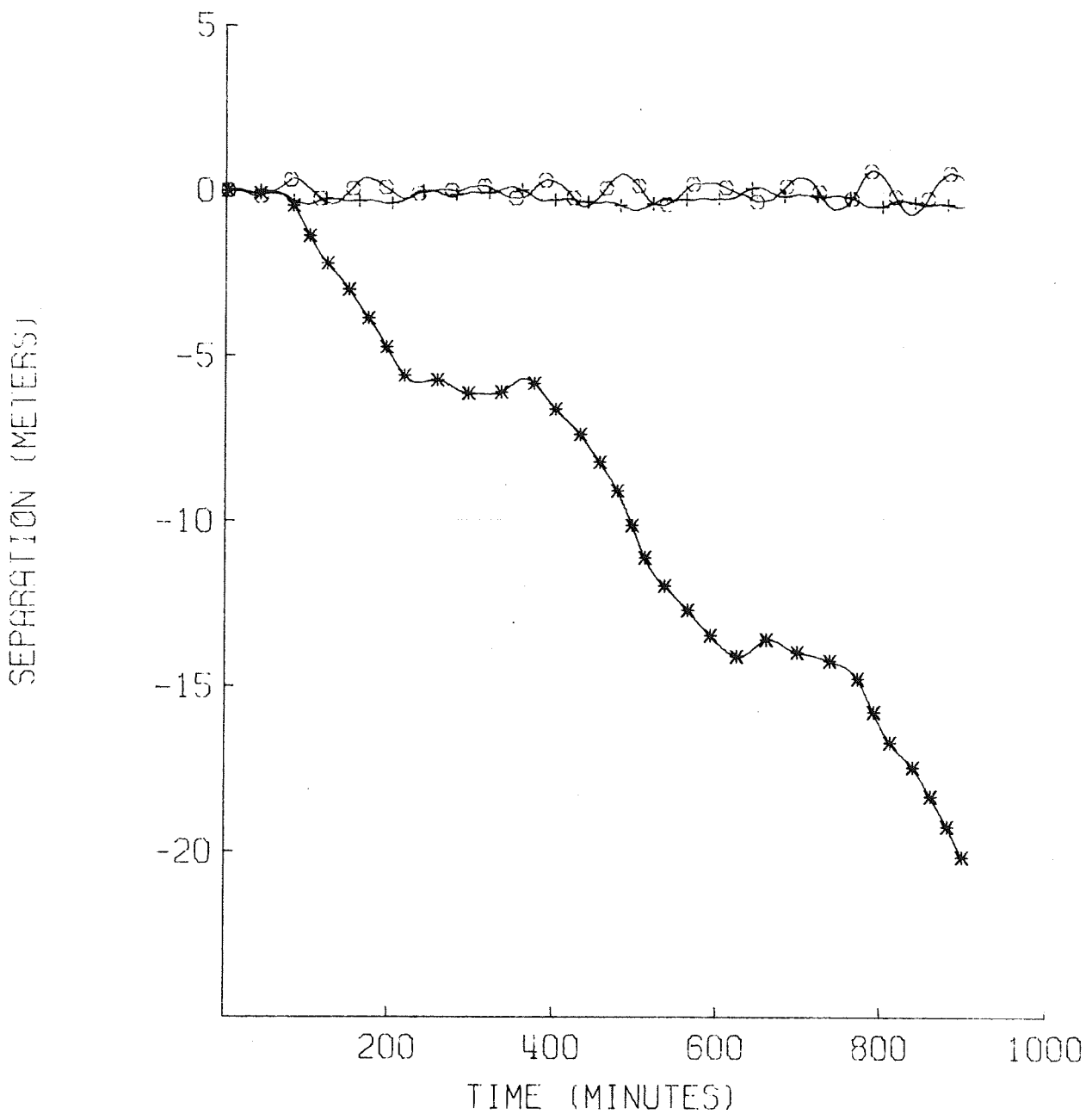
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,4) = -.0270
 FACTOR USED IS 1.000000

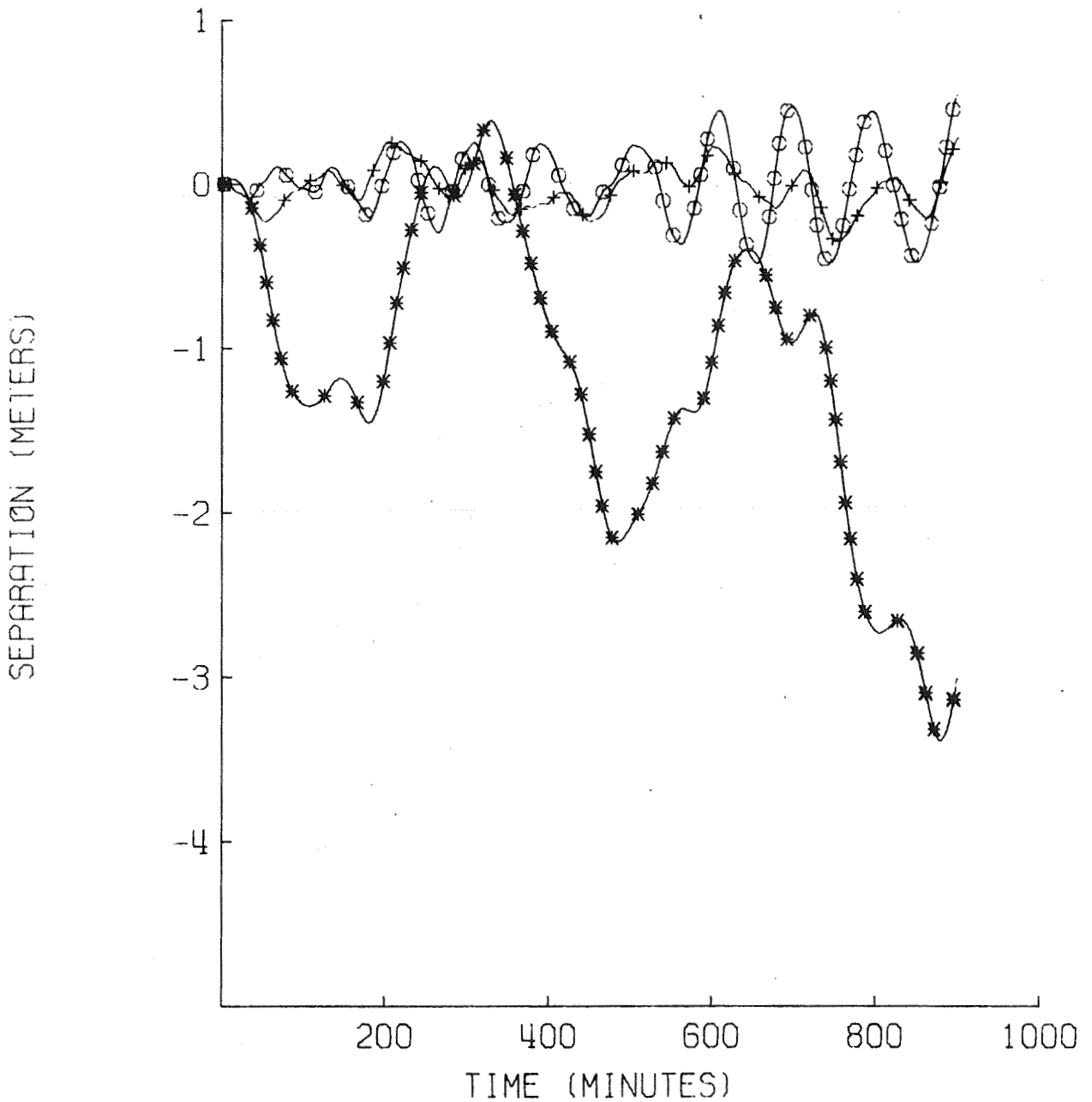
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(12,4) = -.0190
FACTOR USED IS 1.000000

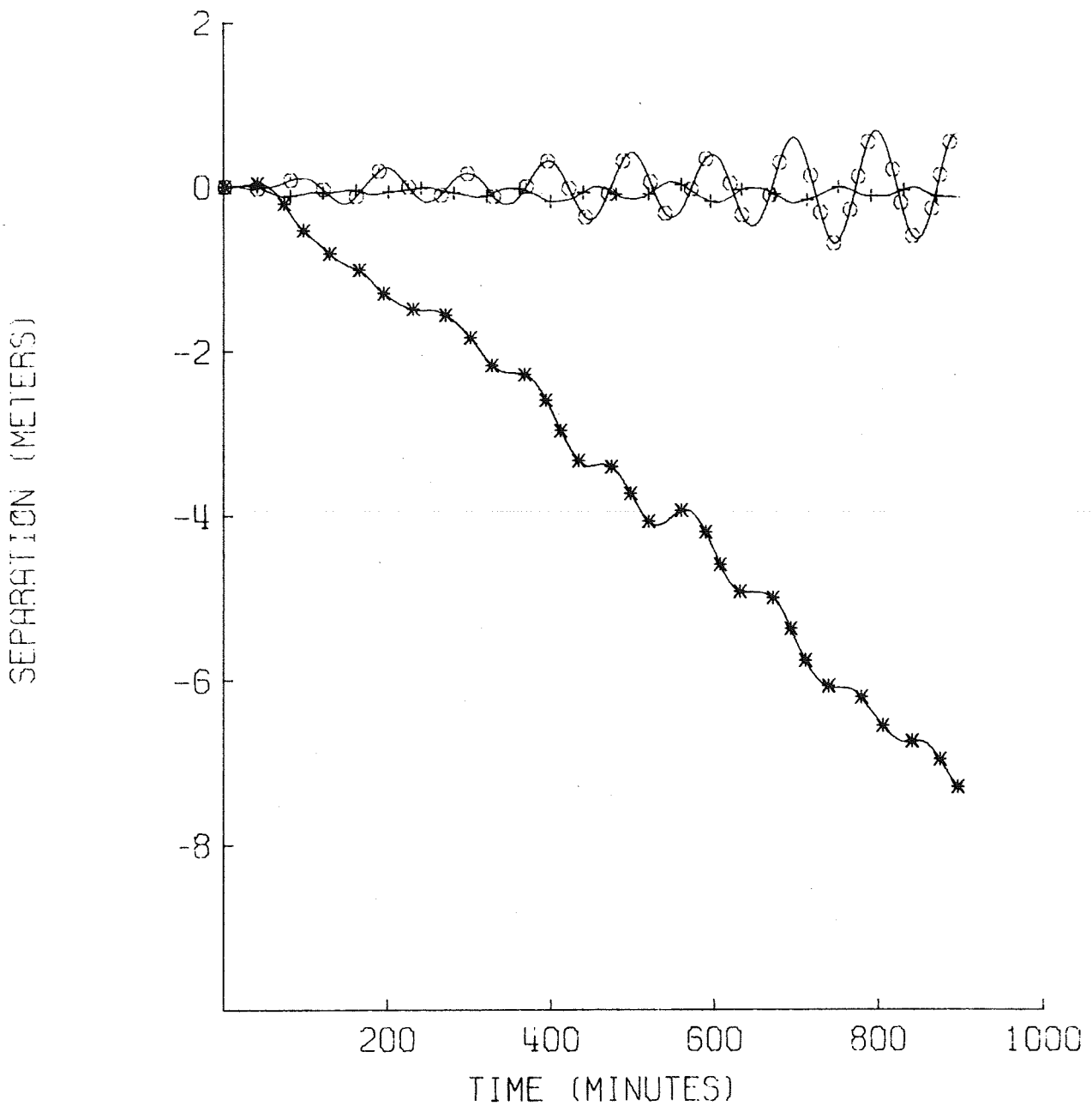
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,5) = .0047
 FACTOR USED IS 1.000000

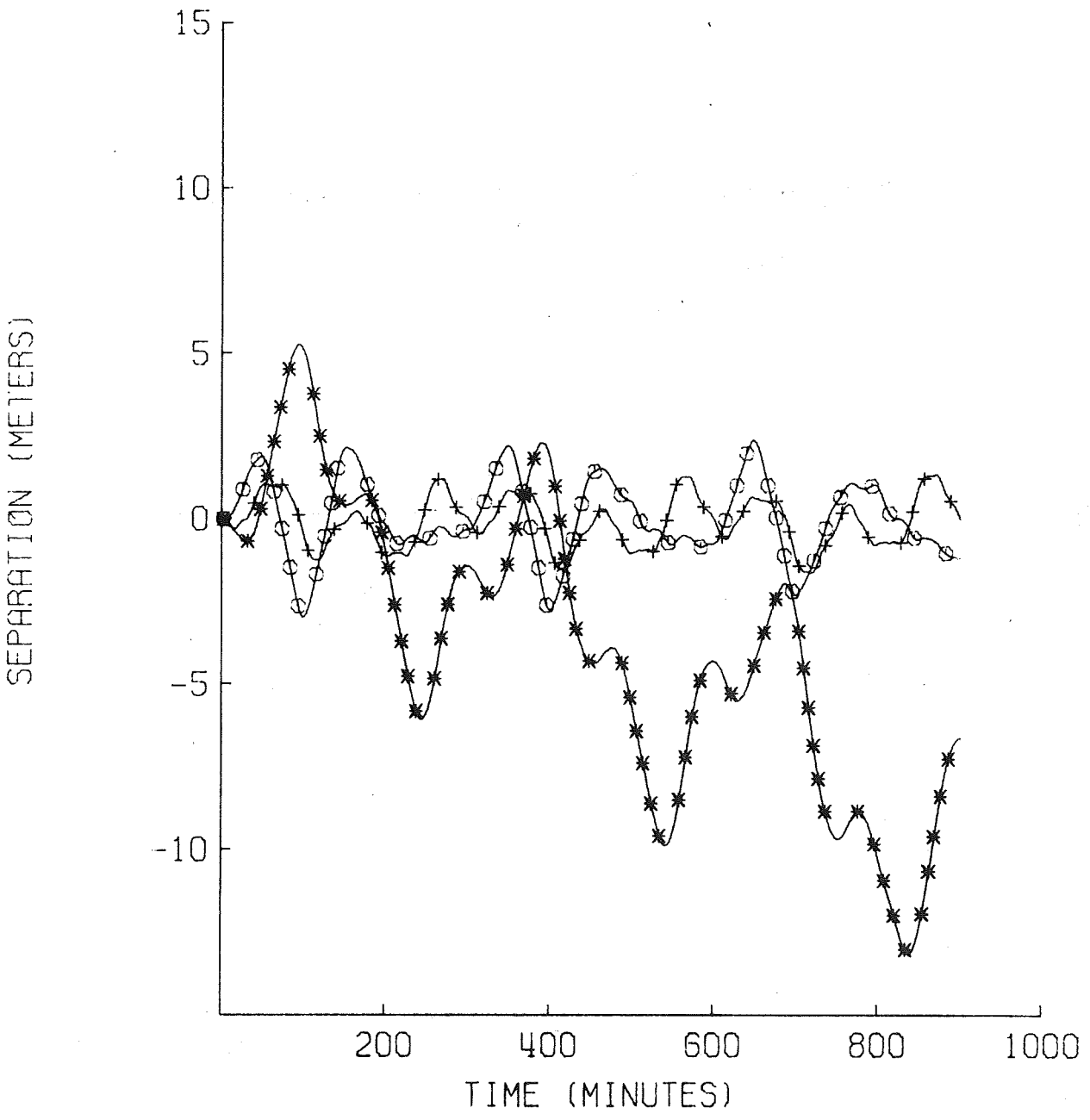
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,5) = -.1105
 FACTOR USED IS 1.000000

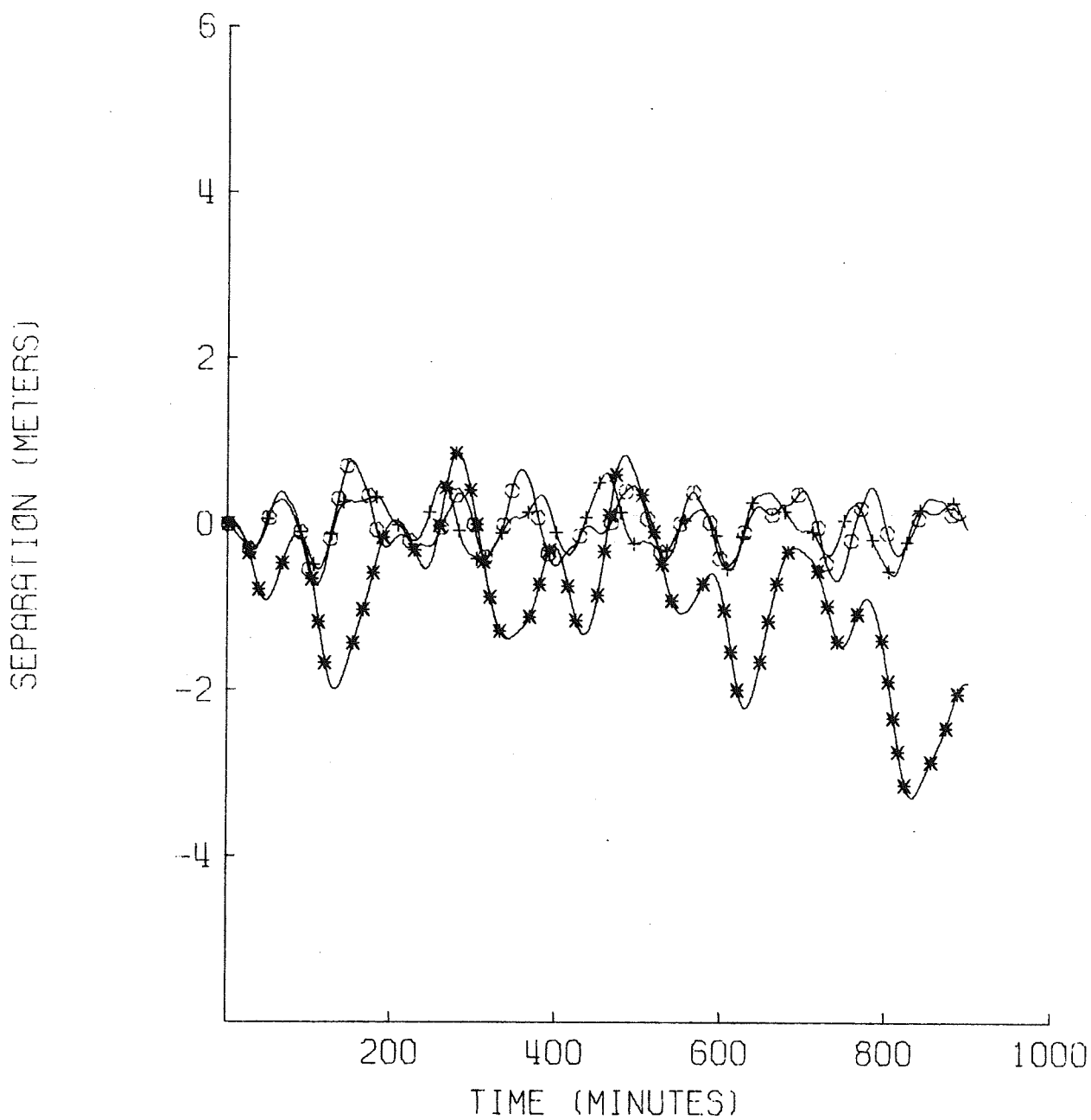
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(12,6) = .0354
FACTOR USED IS 1.000000

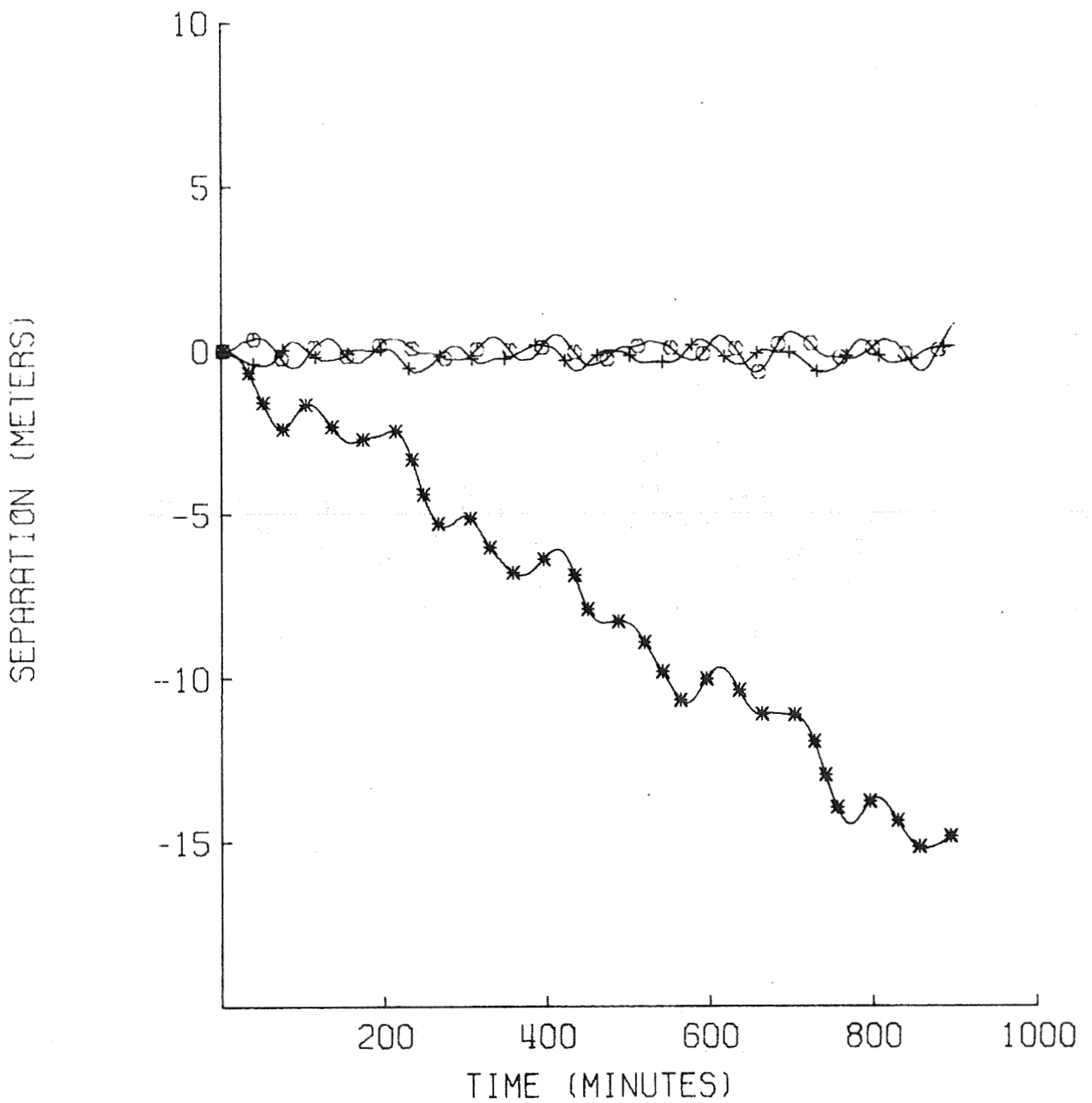
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,6) = .0254
 FACTOR USED IS 1.000000

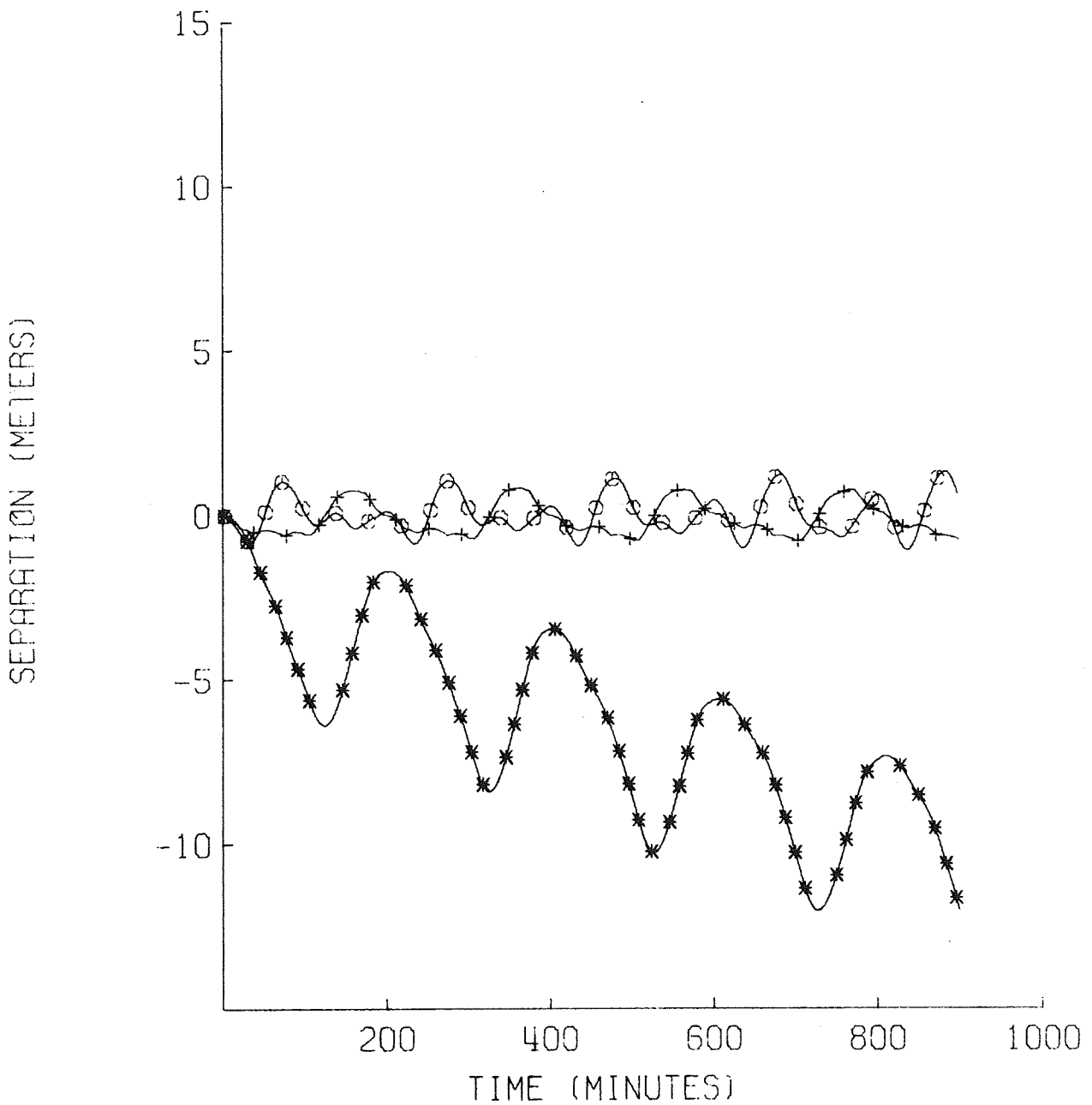
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,7) = -.0491
 FACTOR USED IS 1.000000

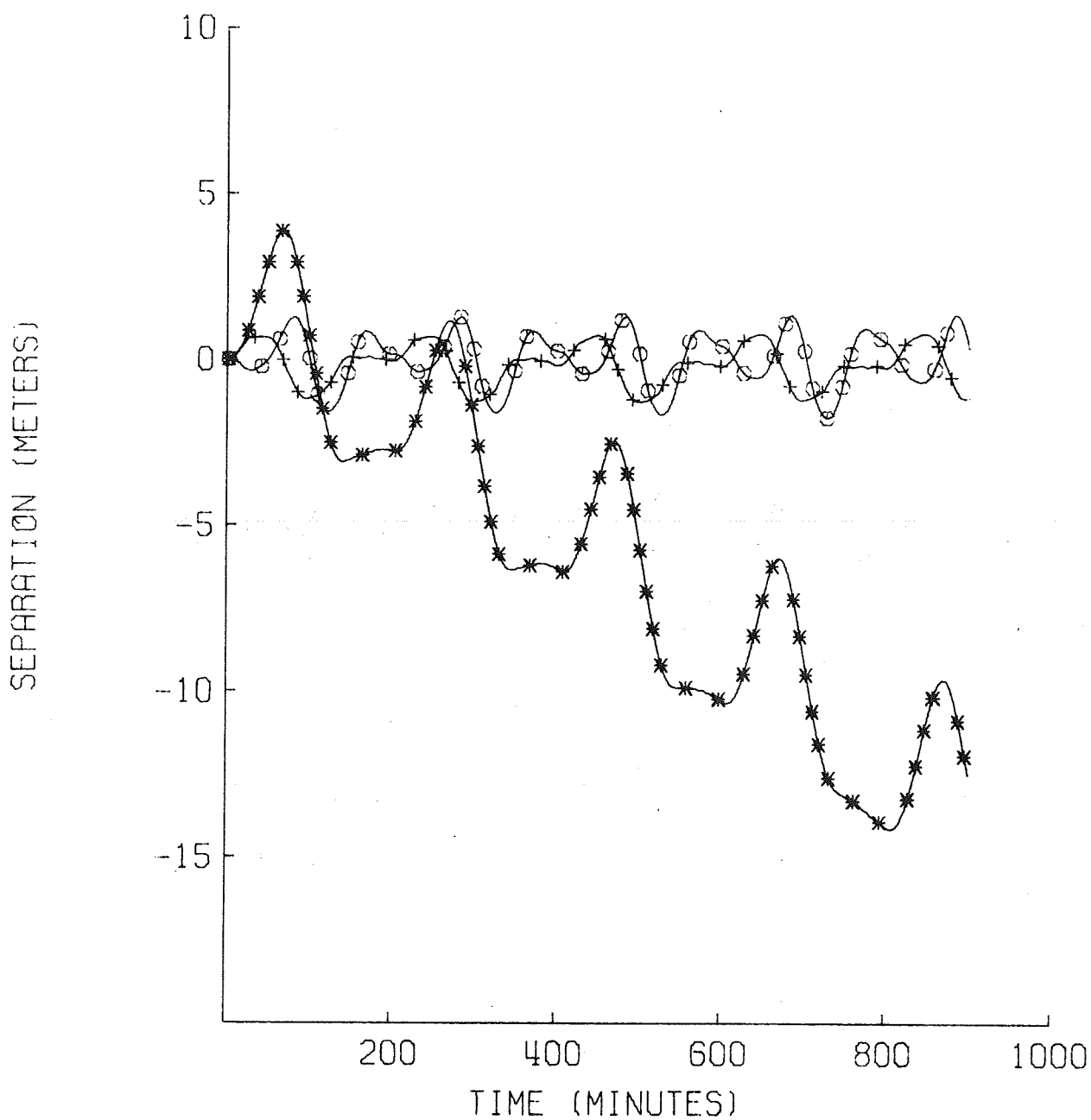
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(12.7) = .0508
FACTOR USED IS 1.000000

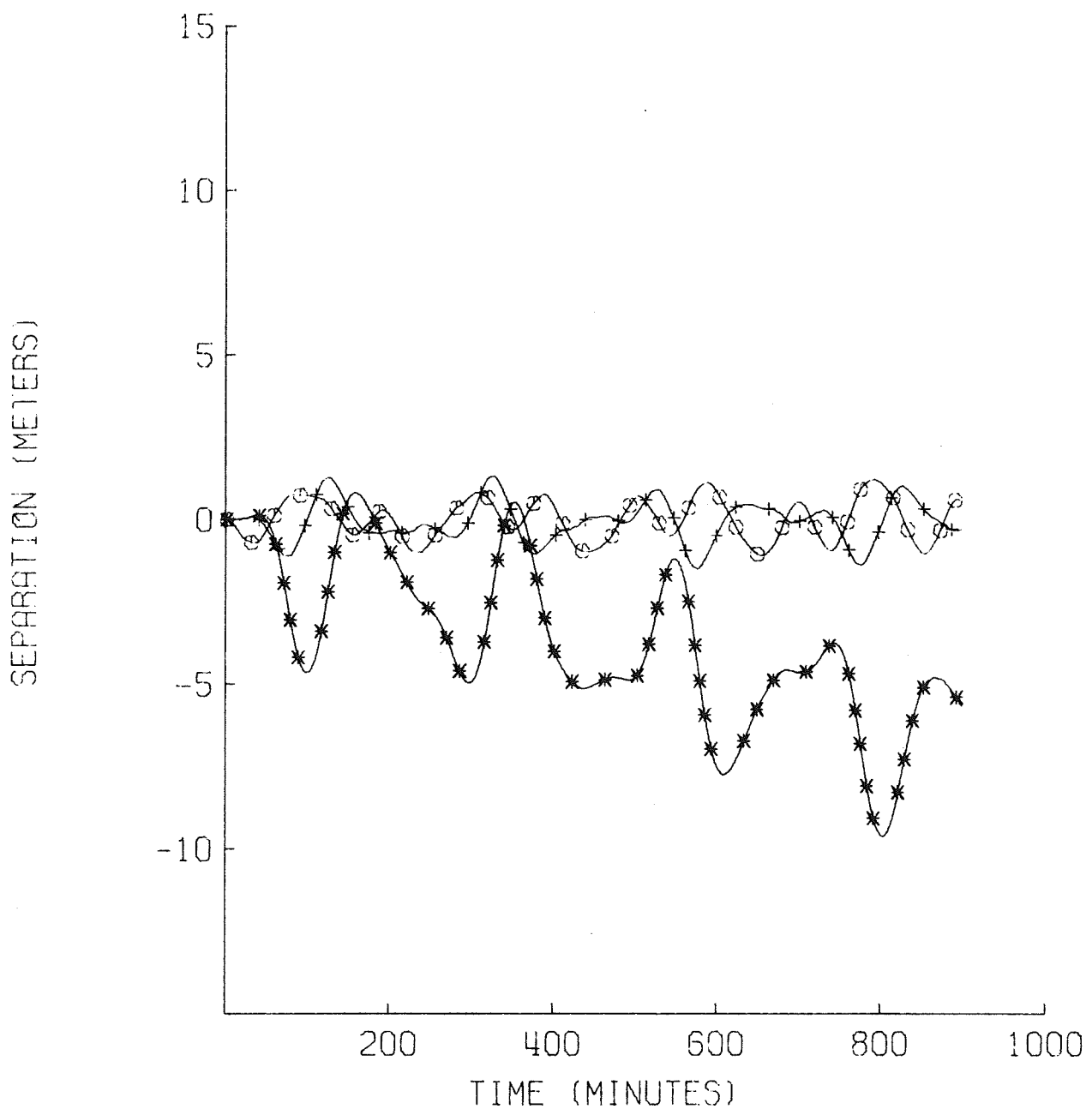
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,8) = .0390
 FACTOR USED IS 1.000000

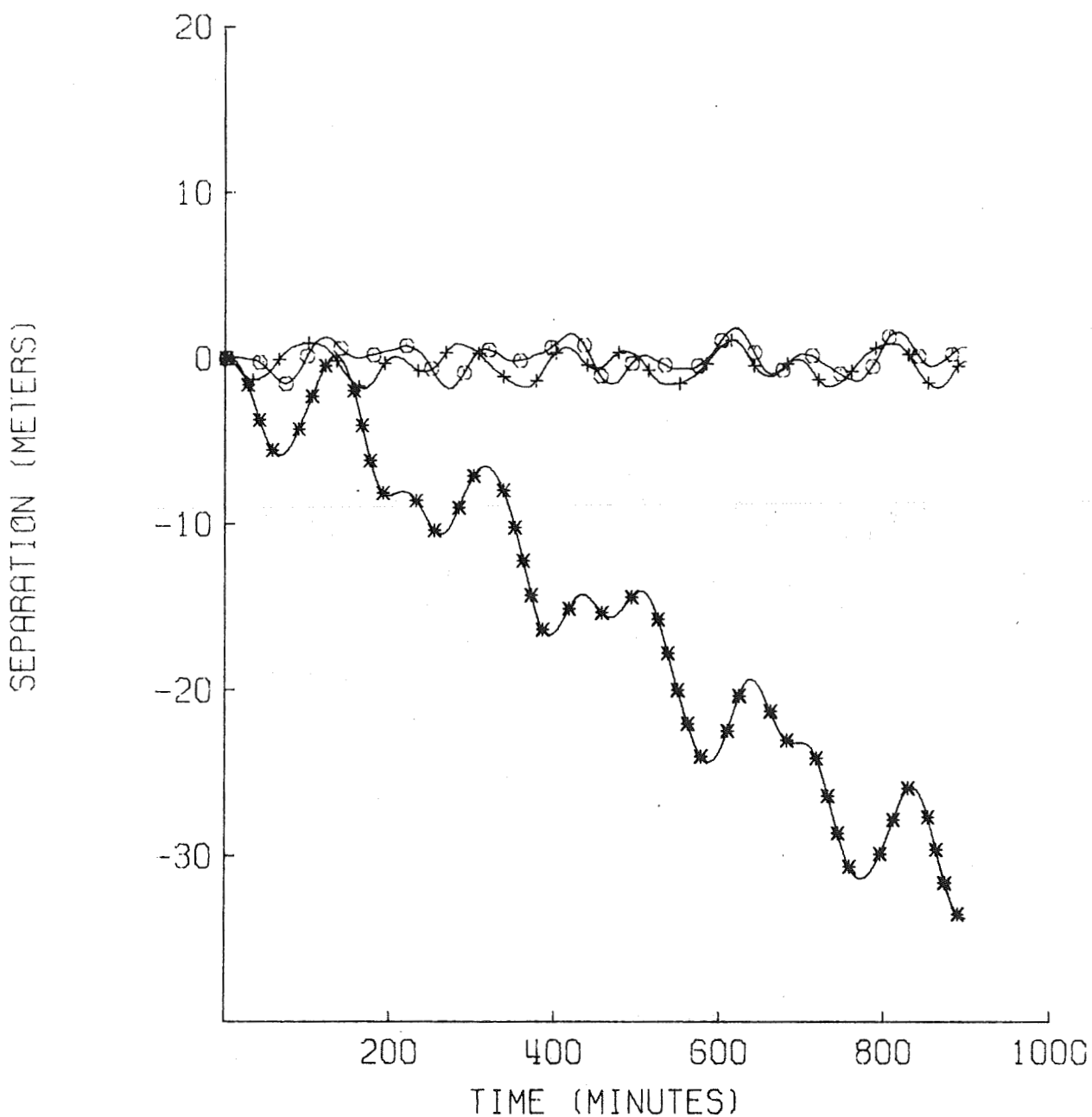
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,8) = .0543
 FACTOR USED IS 1.000000

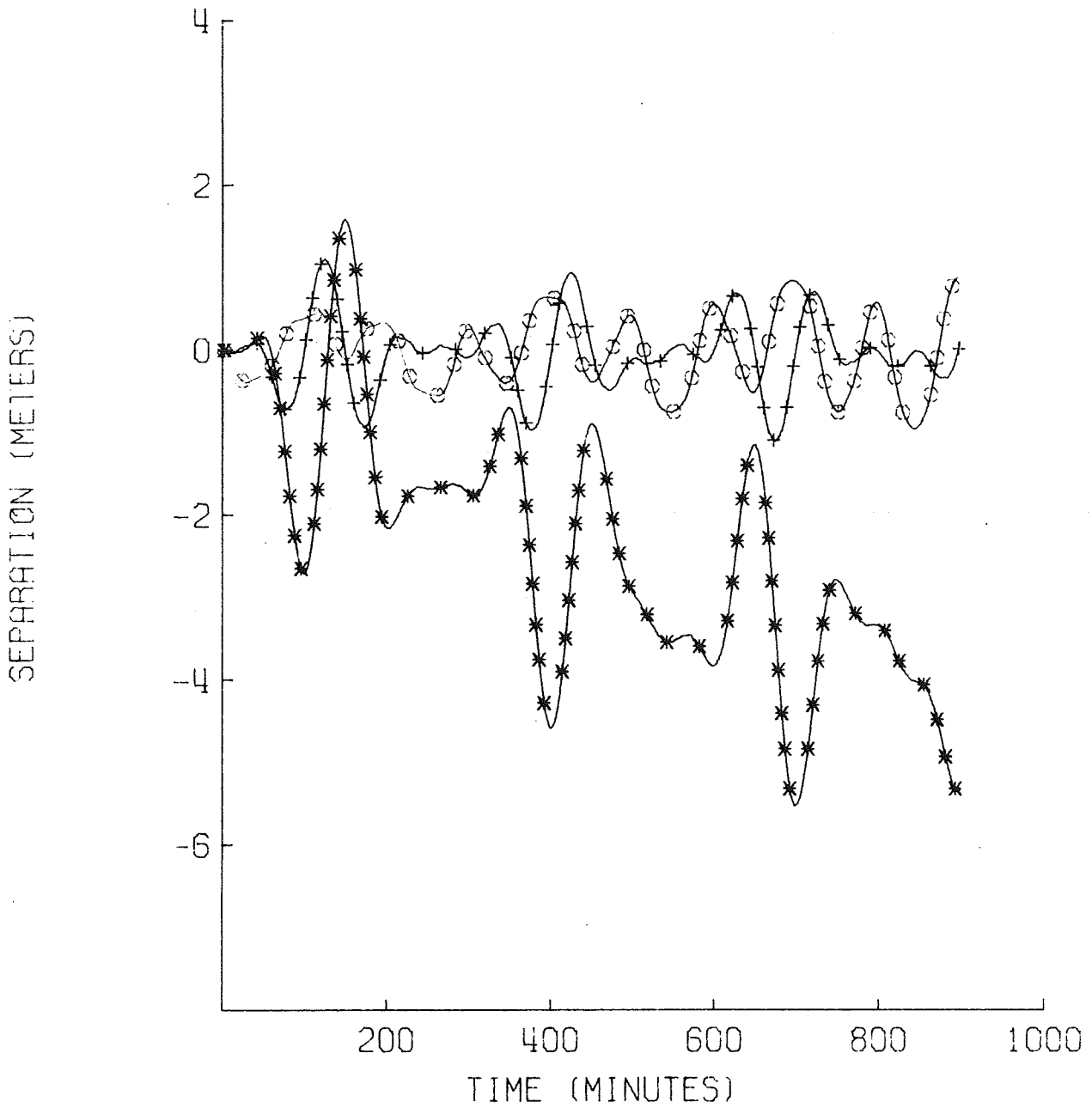
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,9) = -.0275
 FACTOR USED IS 1.000000

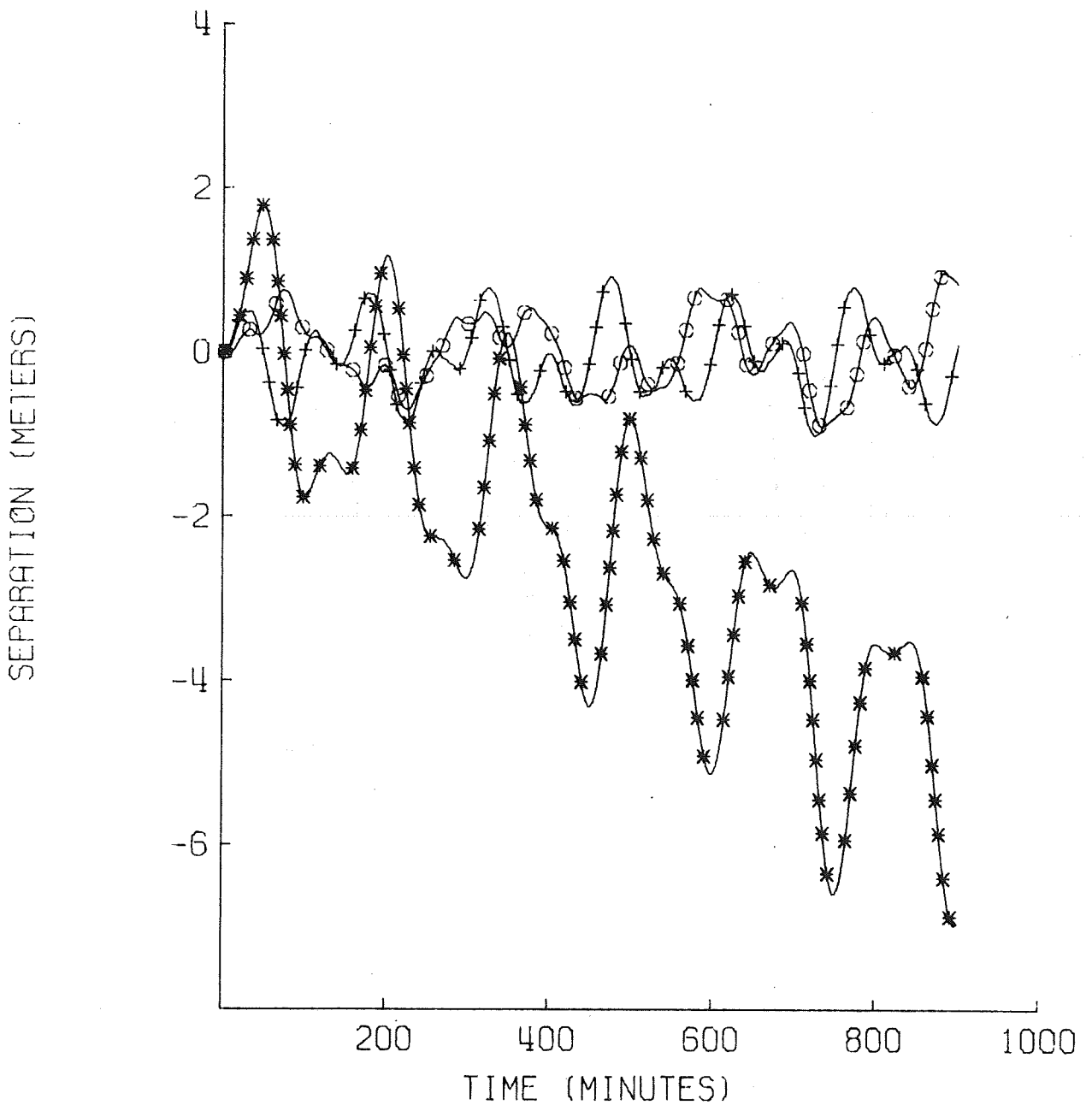
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(12,9) = .0409
FACTOR USED IS 1.000000

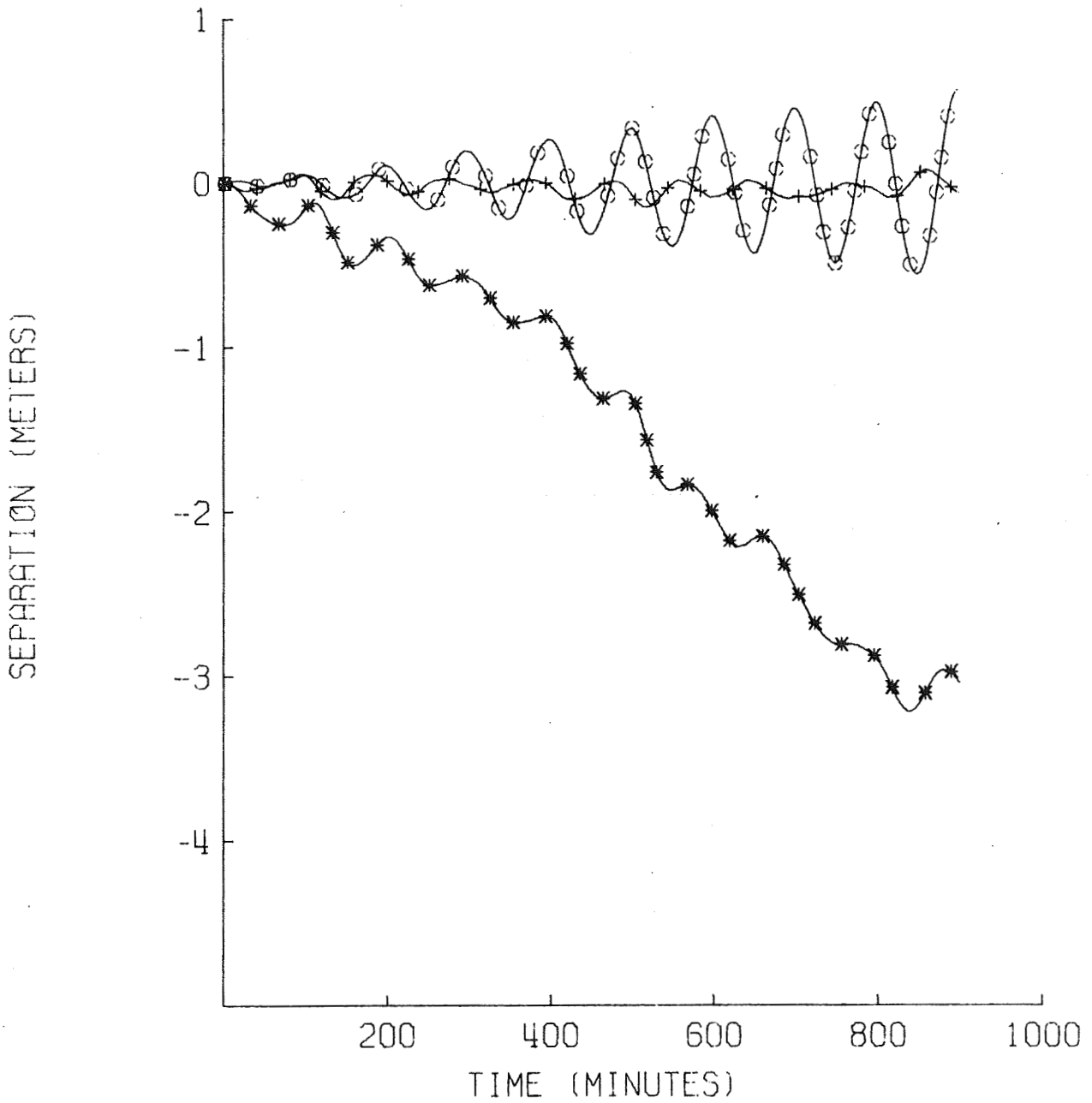
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12, 10) = -.0025
 FACTOR USED IS 1.000000

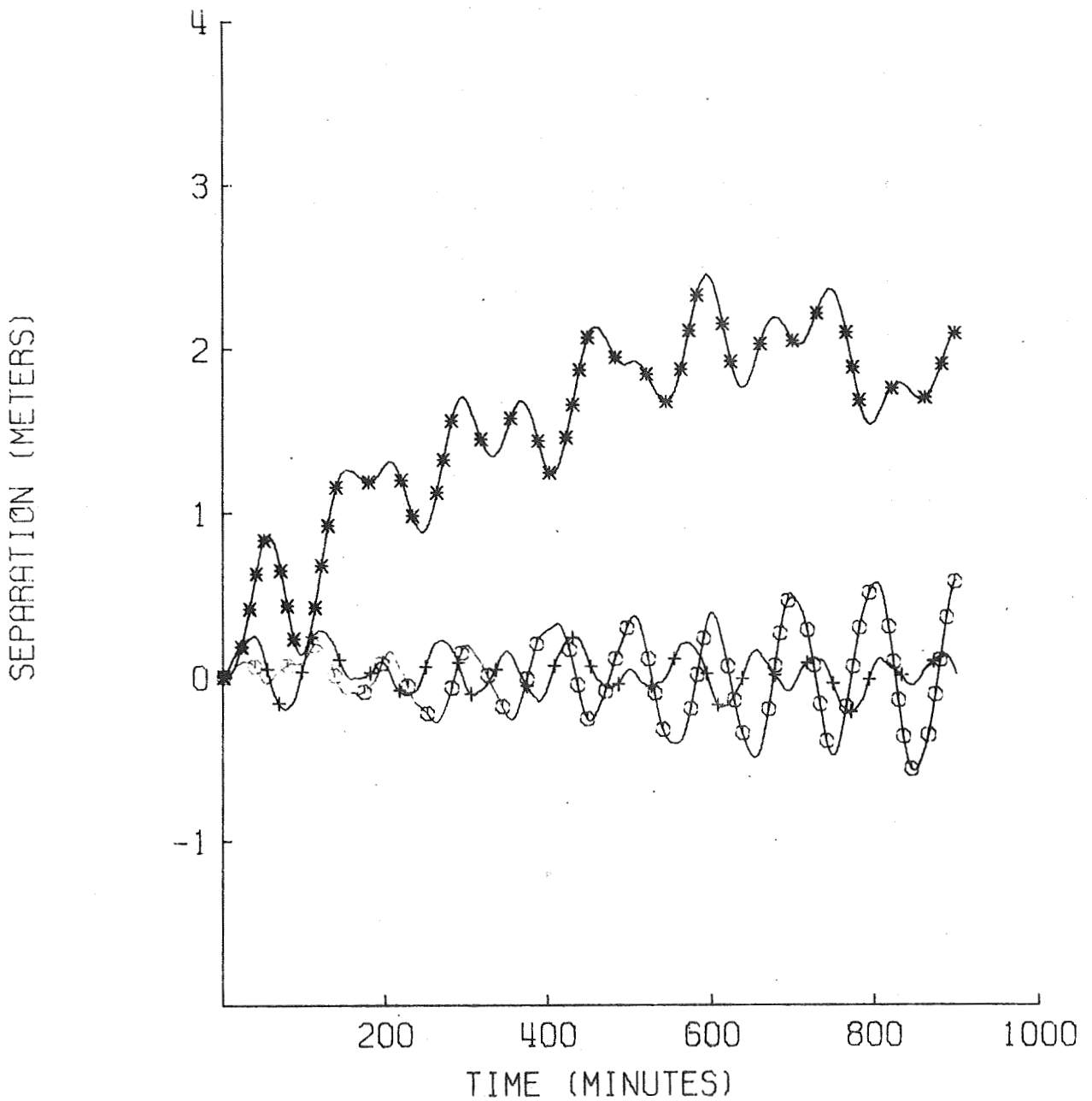
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,10) = -.0129
 FACTOR USED IS 1.000000

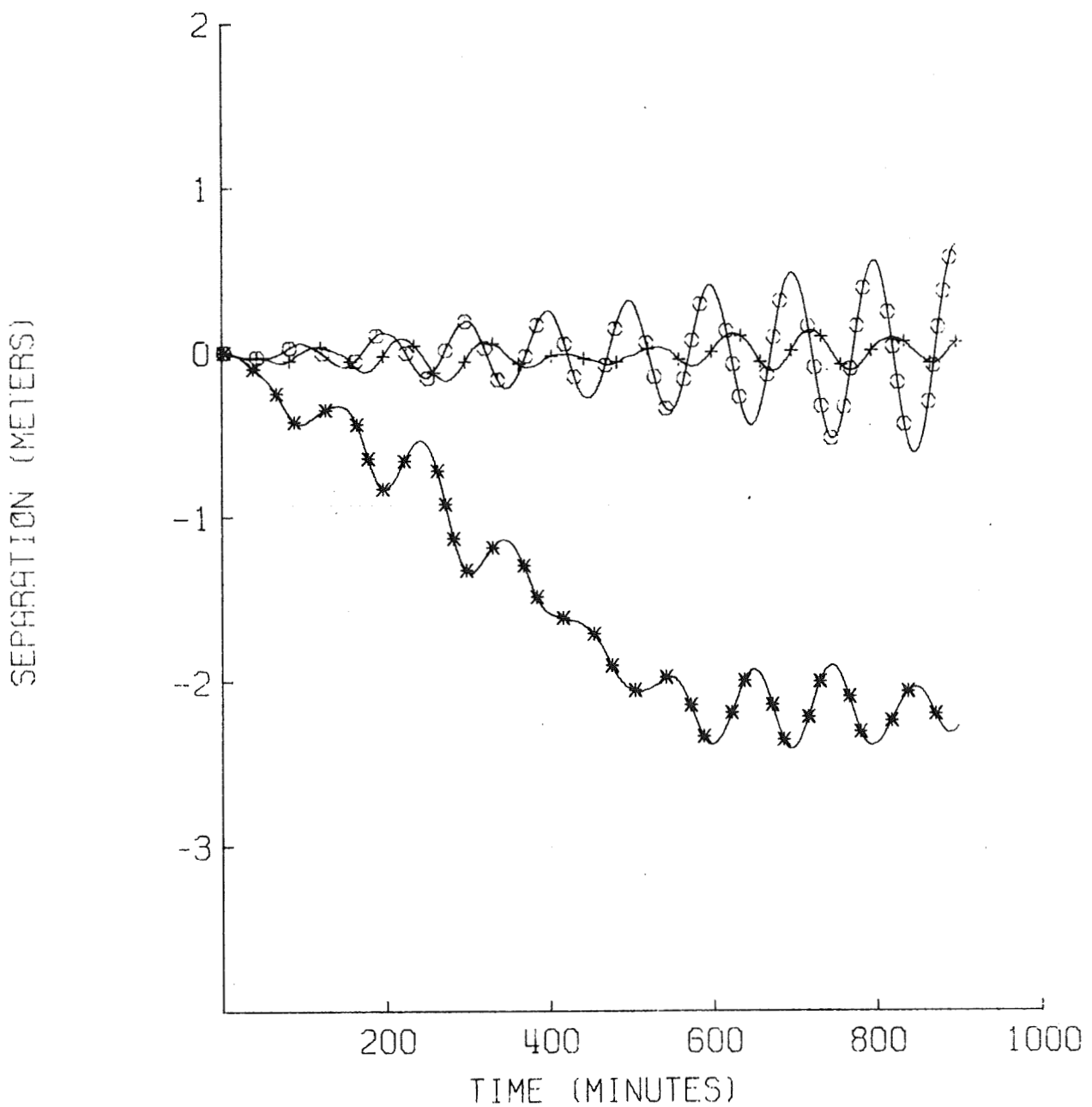
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,11) = -.0030
 FACTOR USED IS 1.000000

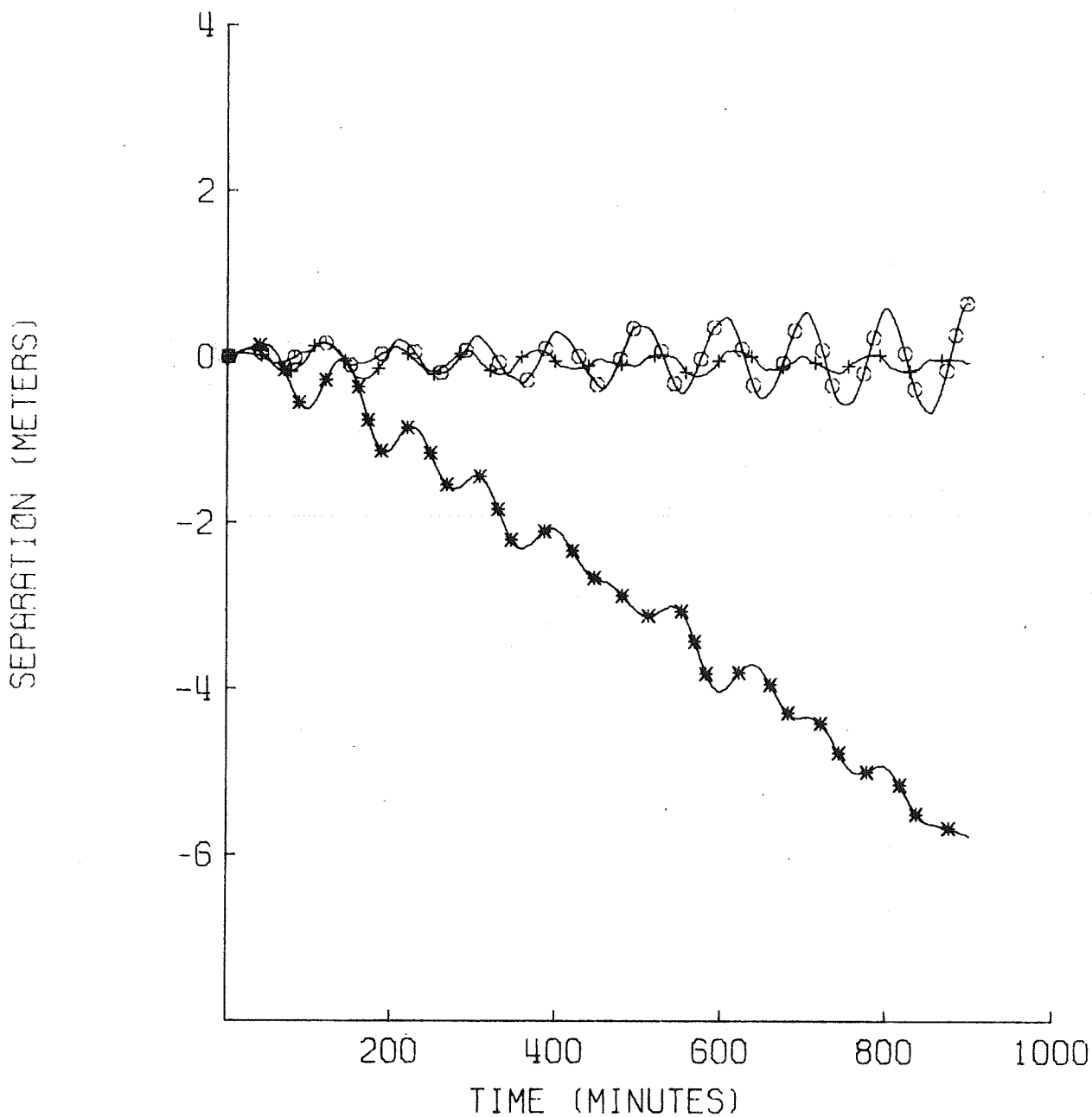
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(12,11) = .0153
FACTOR USED IS 1.000000

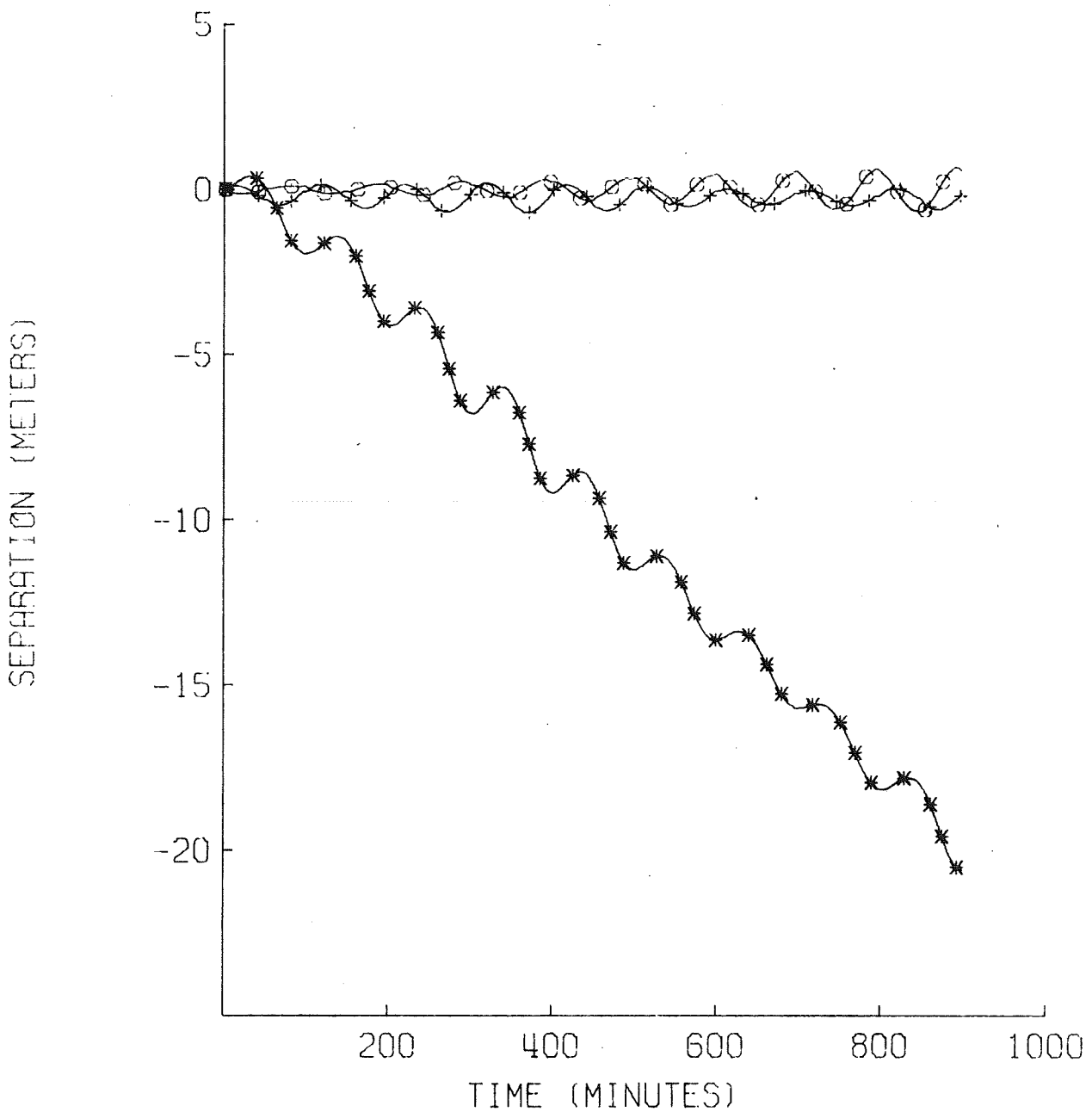
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(12,12) = .0303
FACTOR USED IS 1.000000

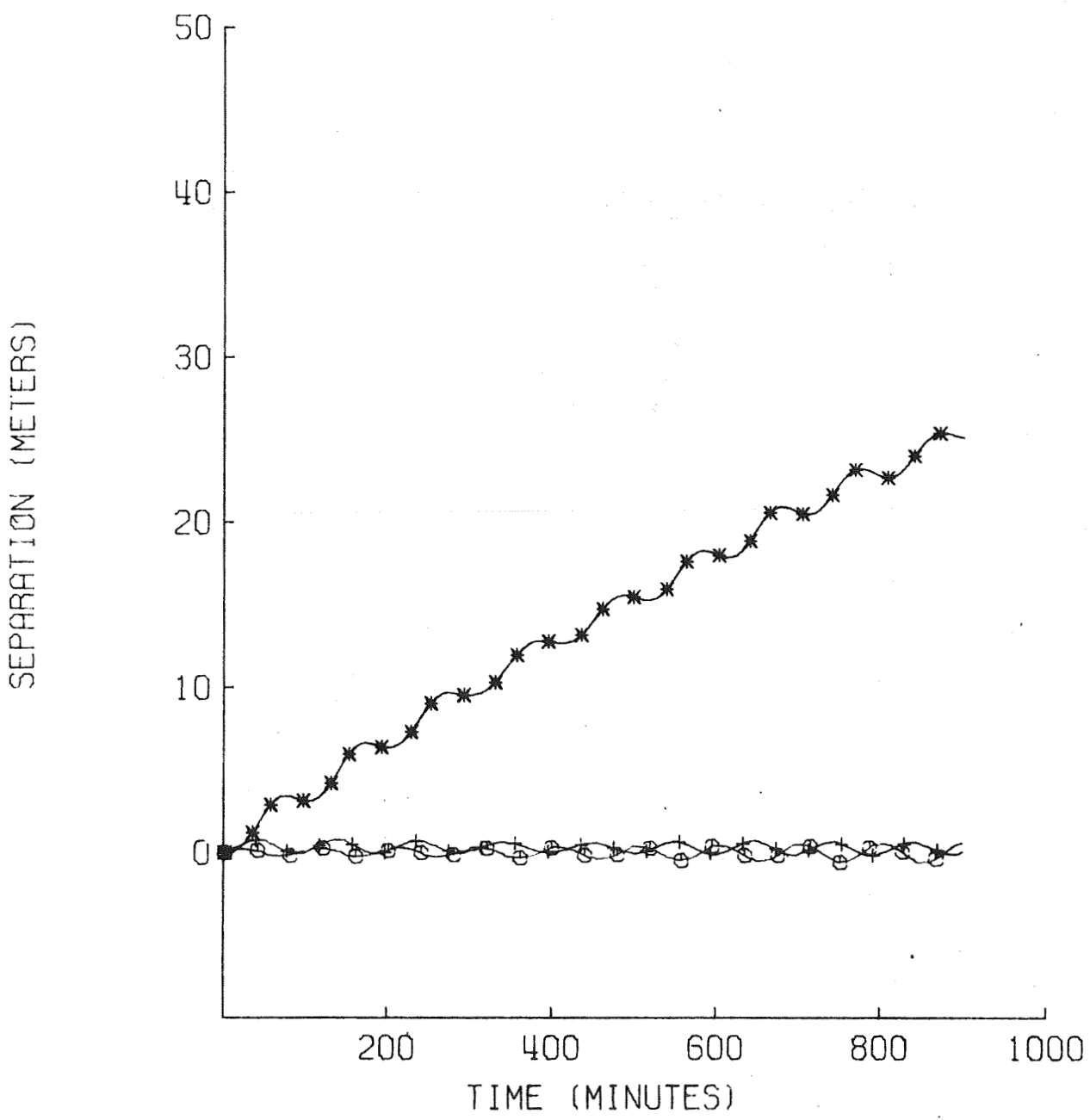
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12, 12) = -.0332
 FACTOR USED IS 1.000000

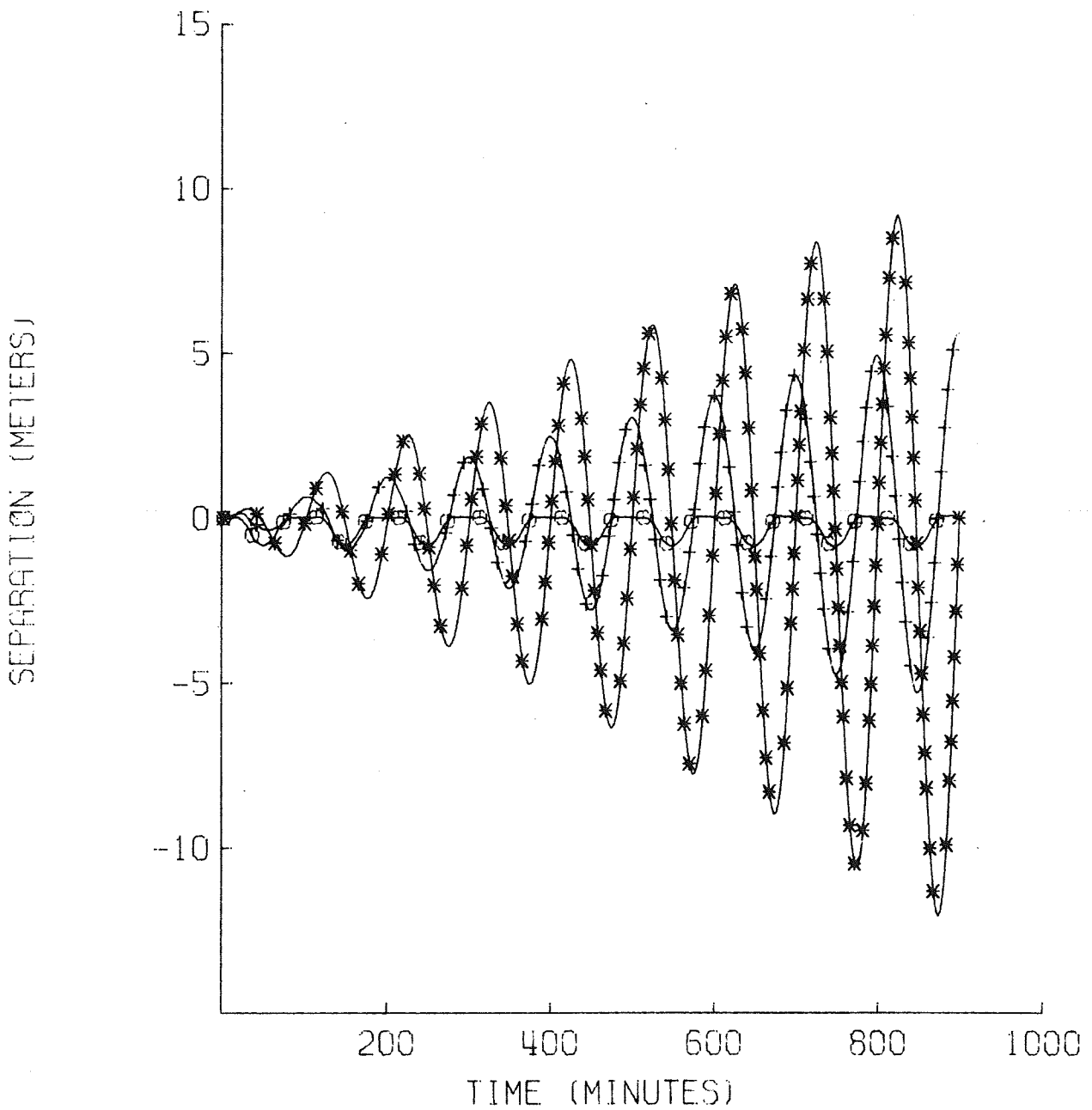
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(13,0) = .0425
FACTOR USED IS 1.000000

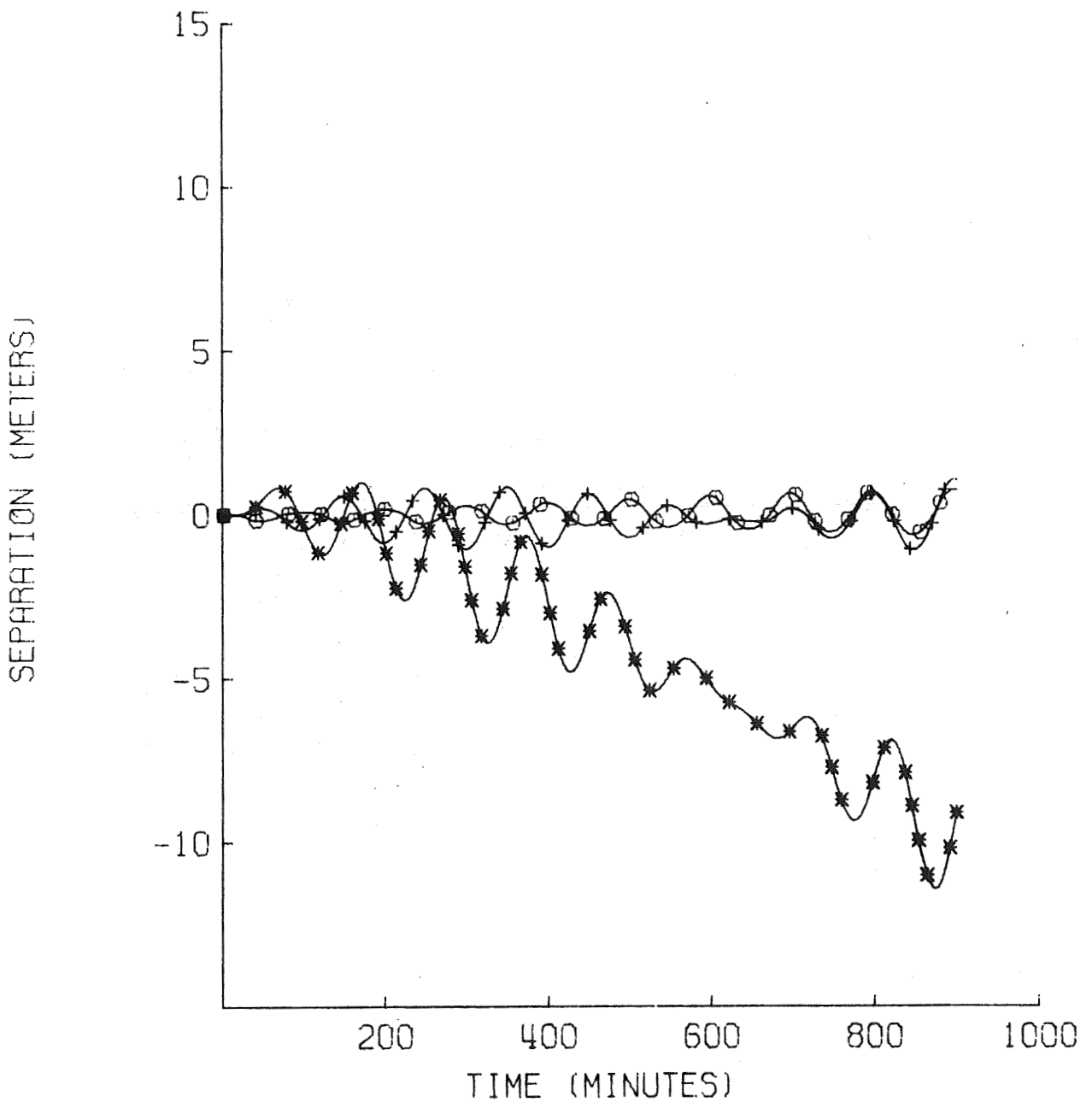
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,1) = -.0339
 FACTOR USED IS 1.000000

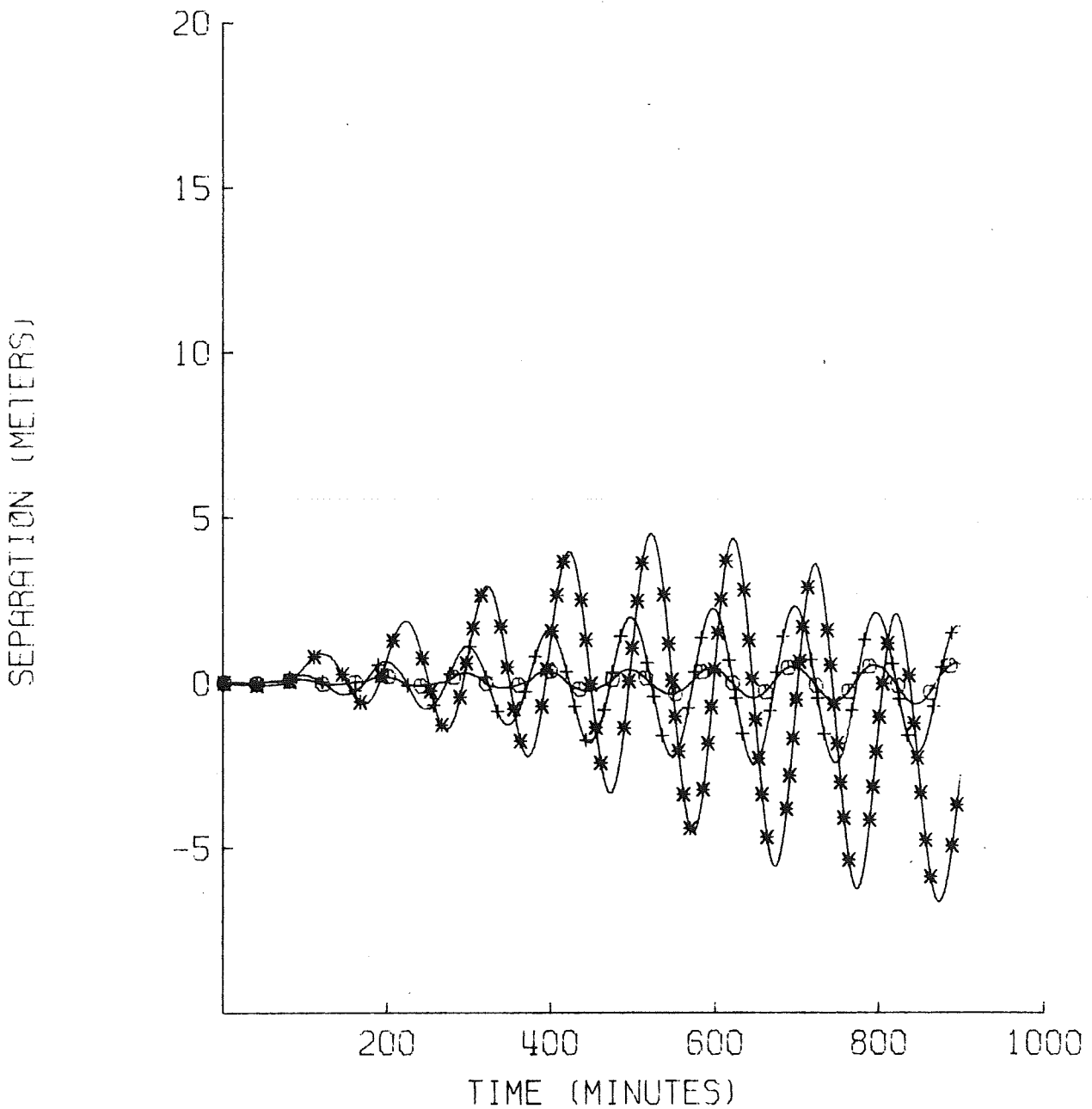
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(13,1) = -.0345
 FACTOR USED IS 1.000000

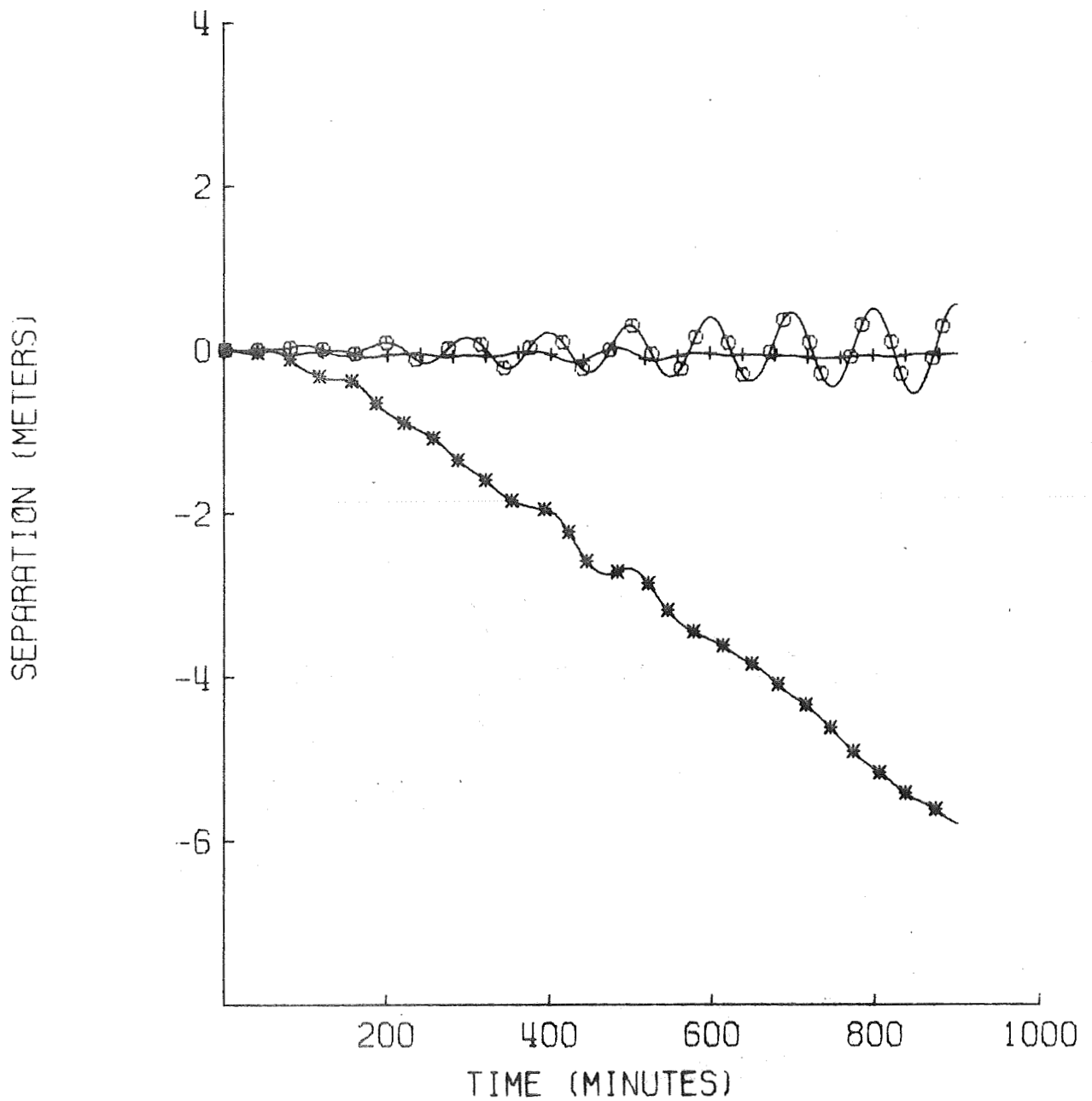
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,2) = .0056
 FACTOR USED IS 1.000000

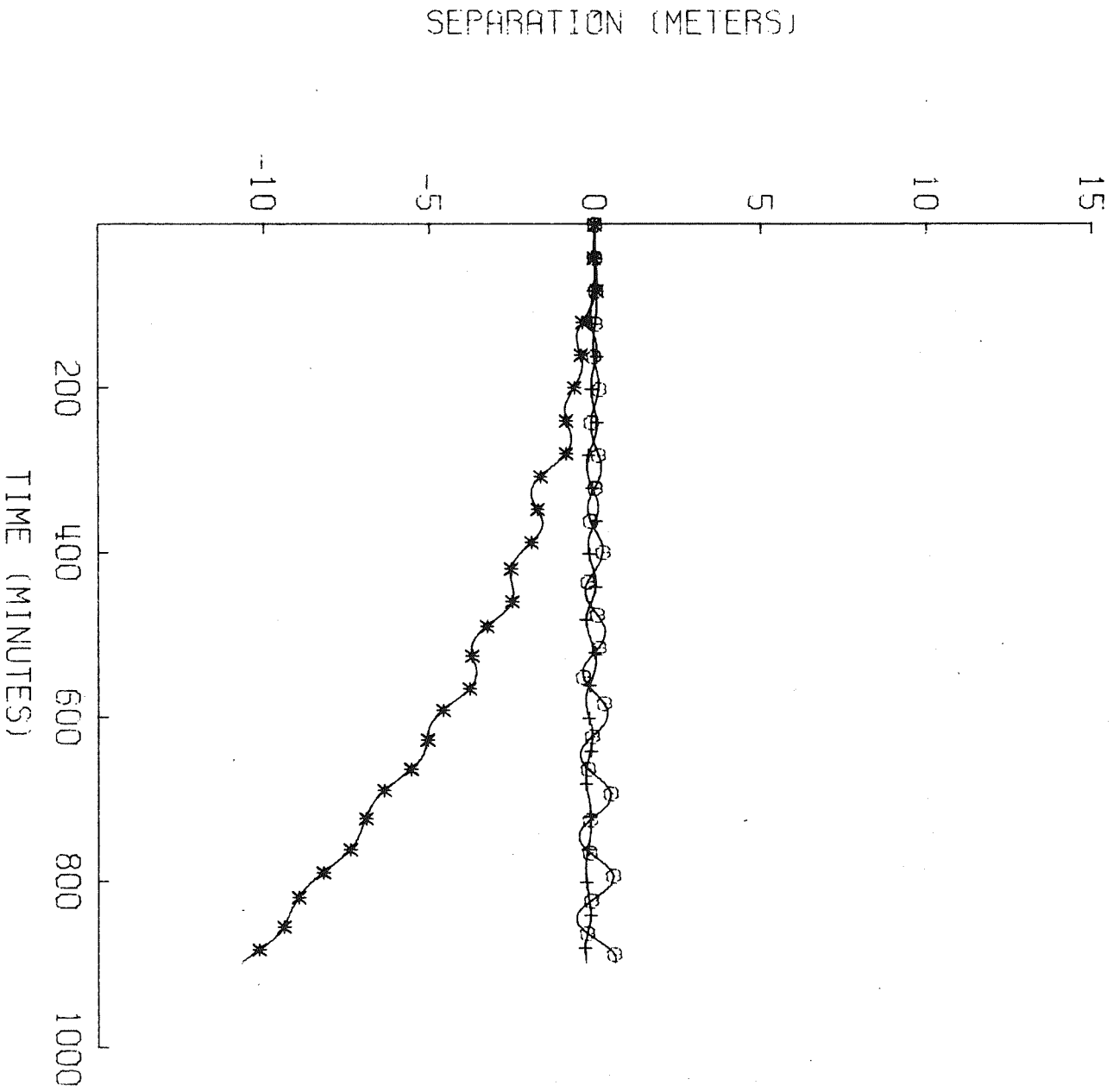
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E R
 0.0000 0.0000 0.0000 45.00000 .005000000 7136.6535

RUN FOR S(13, 2) = -.0033
 FACTOR USED IS 1.000000

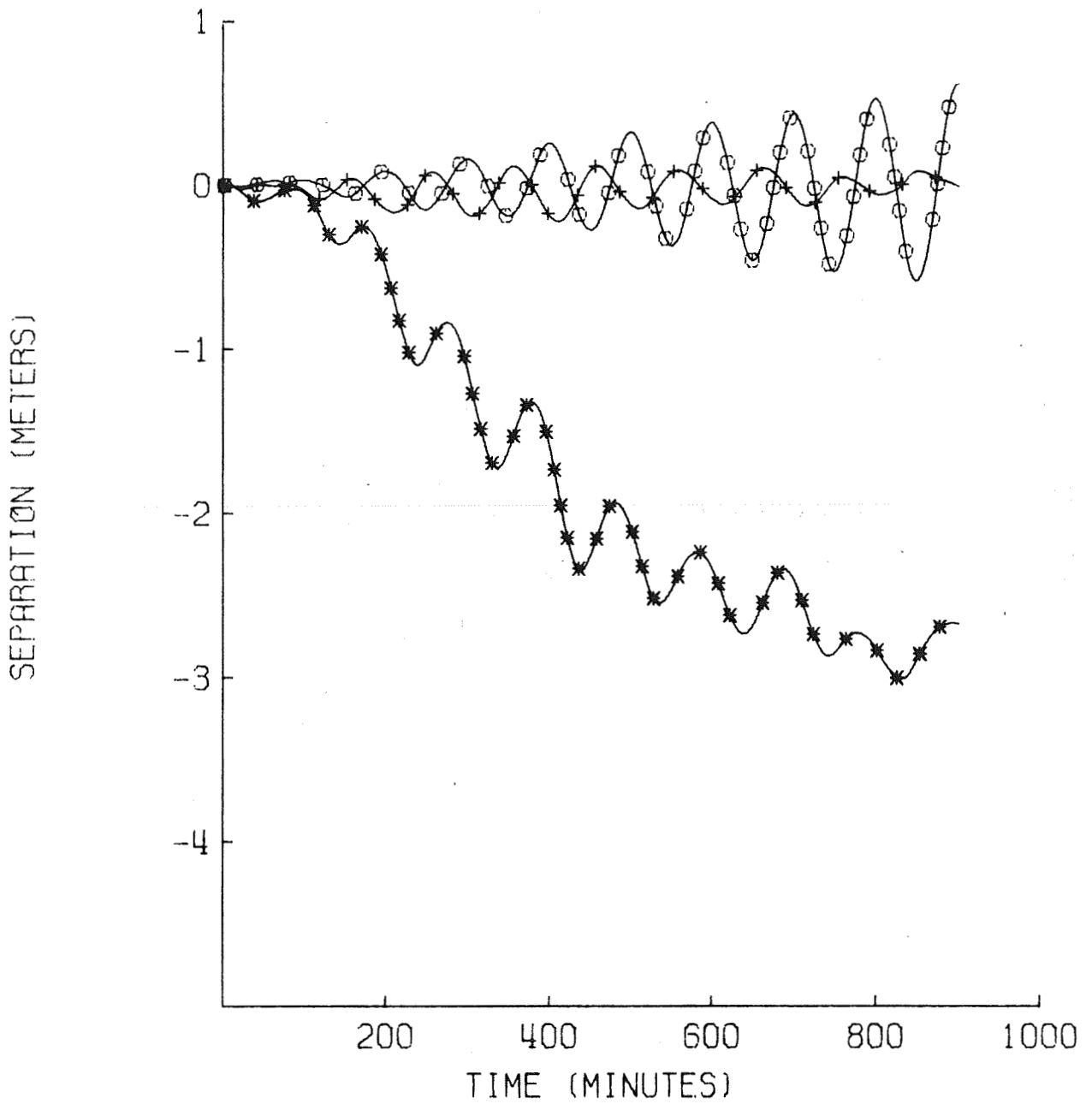
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(13,3) = -.0029
FACTOR USED IS 1.000000

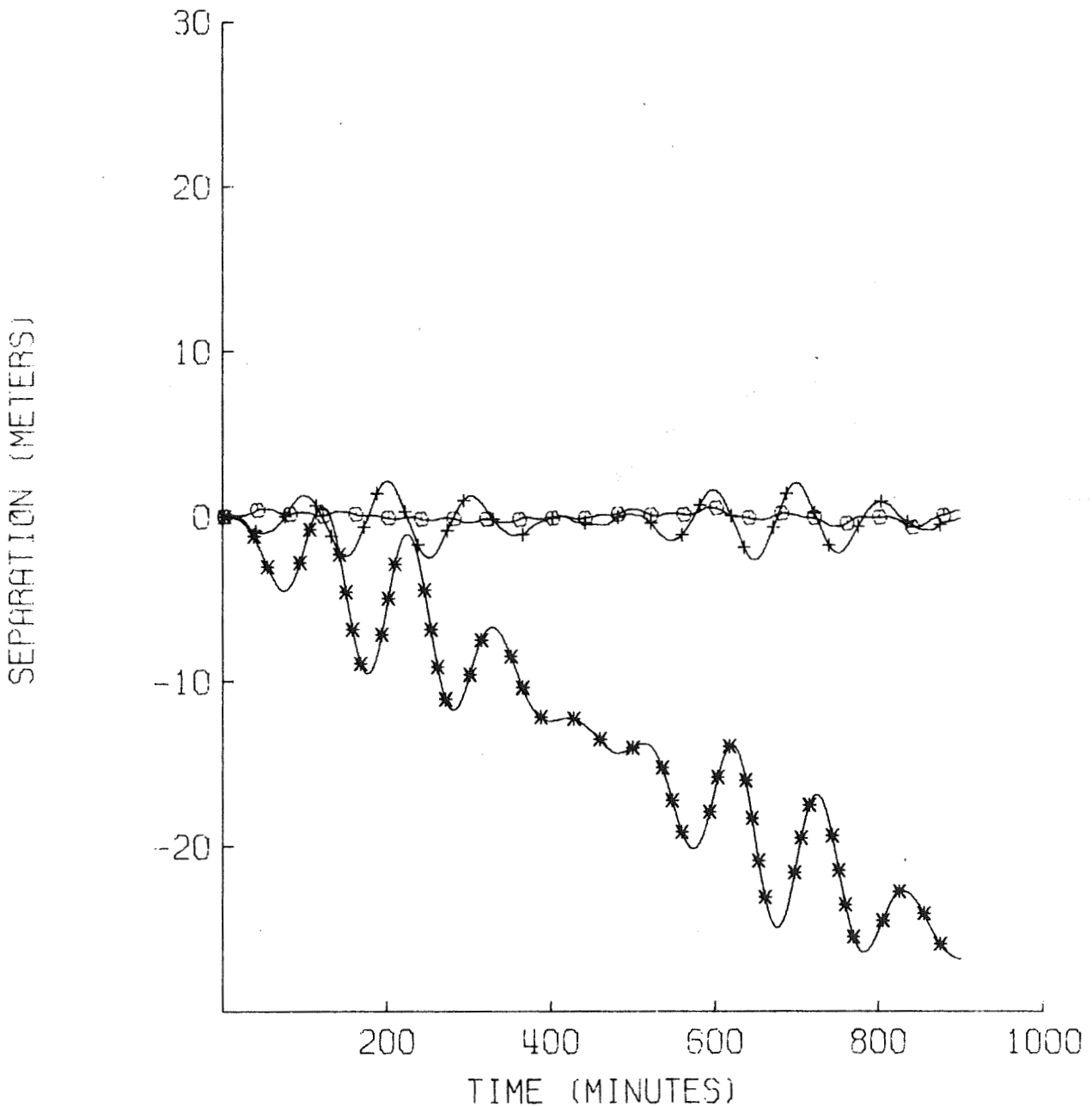
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR S(13.3) = .0770
 FACTOR USED IS 1.000000

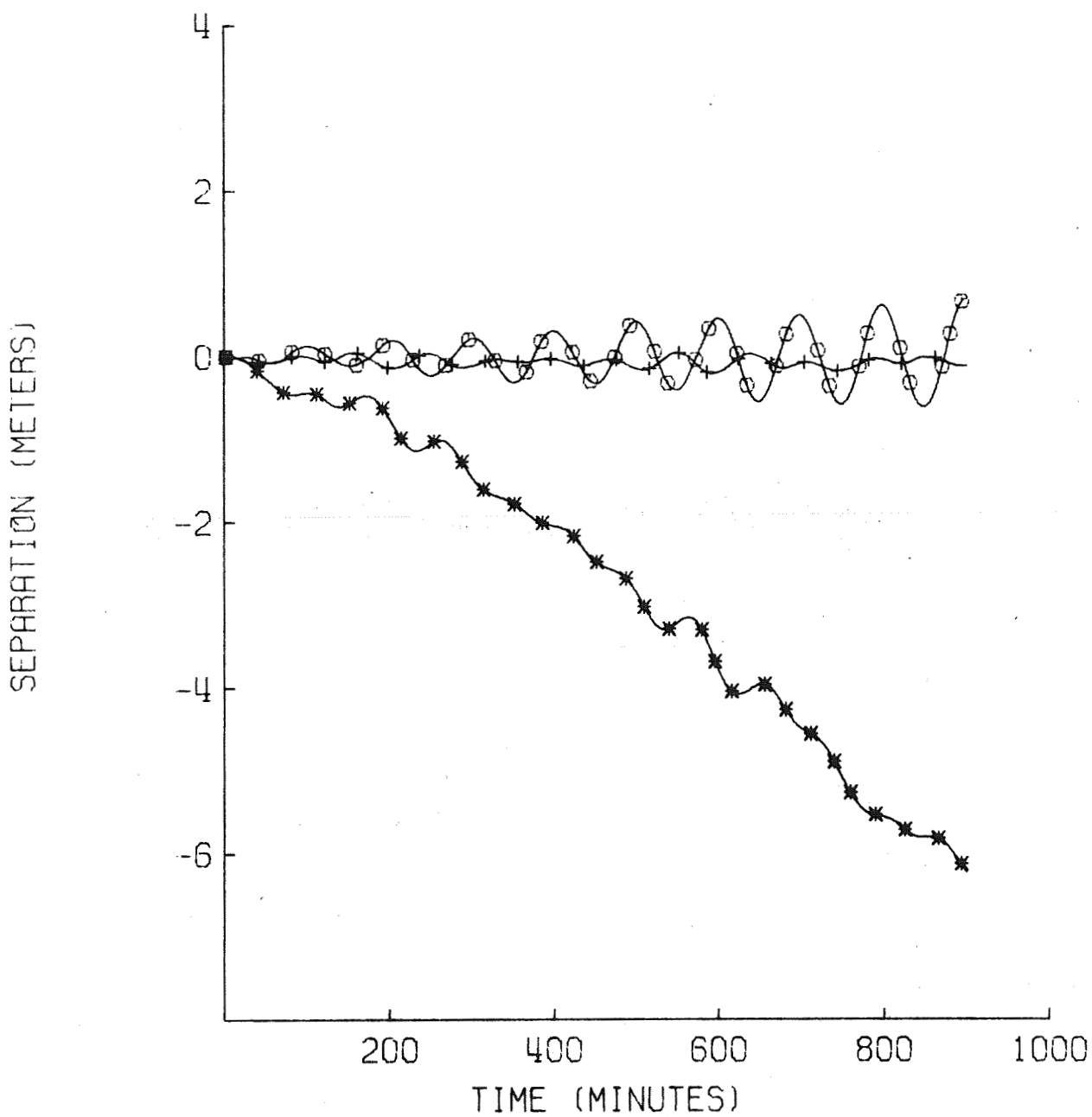
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13.4) = .0073
 FACTOR USED IS 1.000000

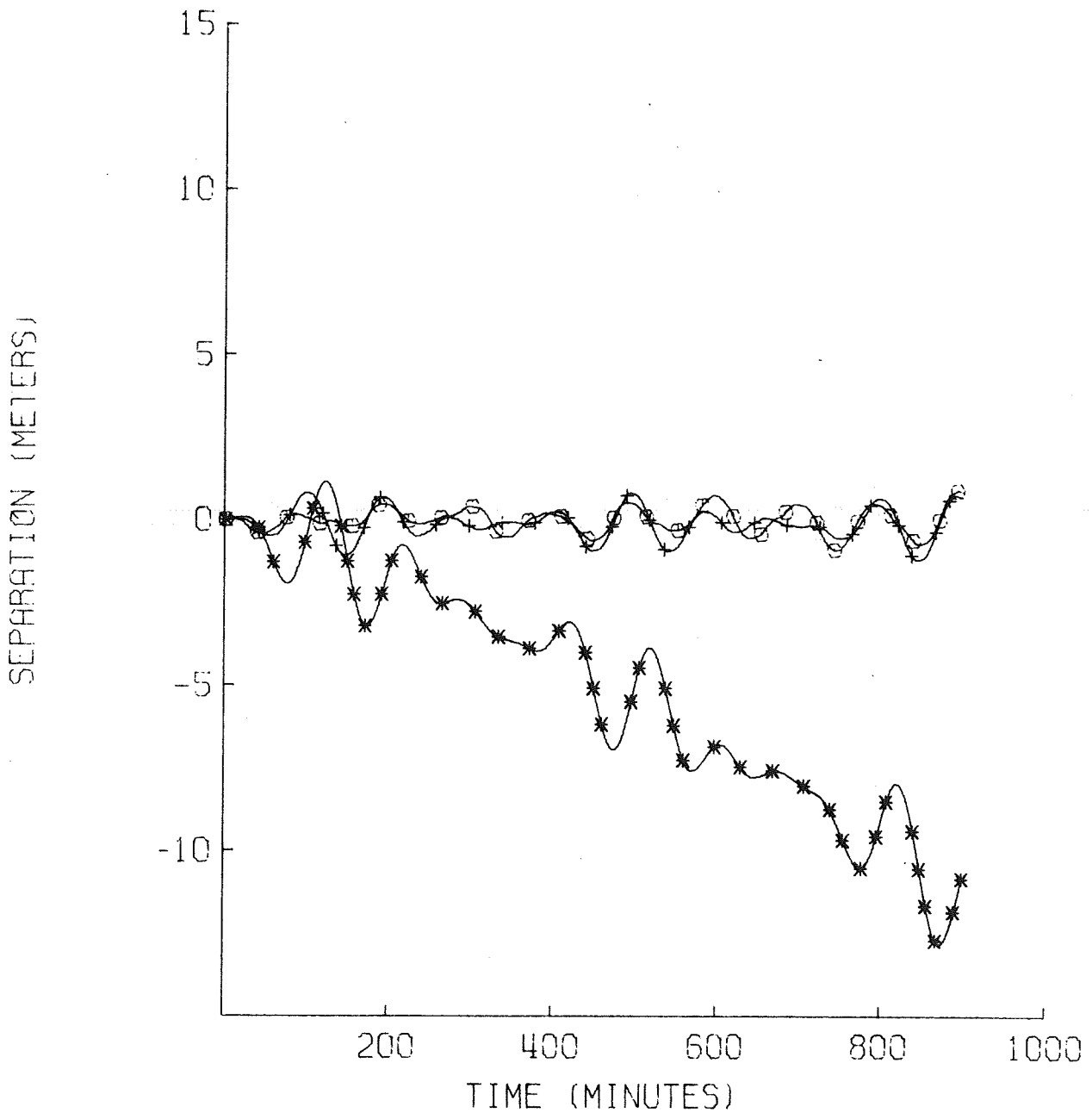
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(13,4) = -.0420
FACTOR USED IS 1.000000

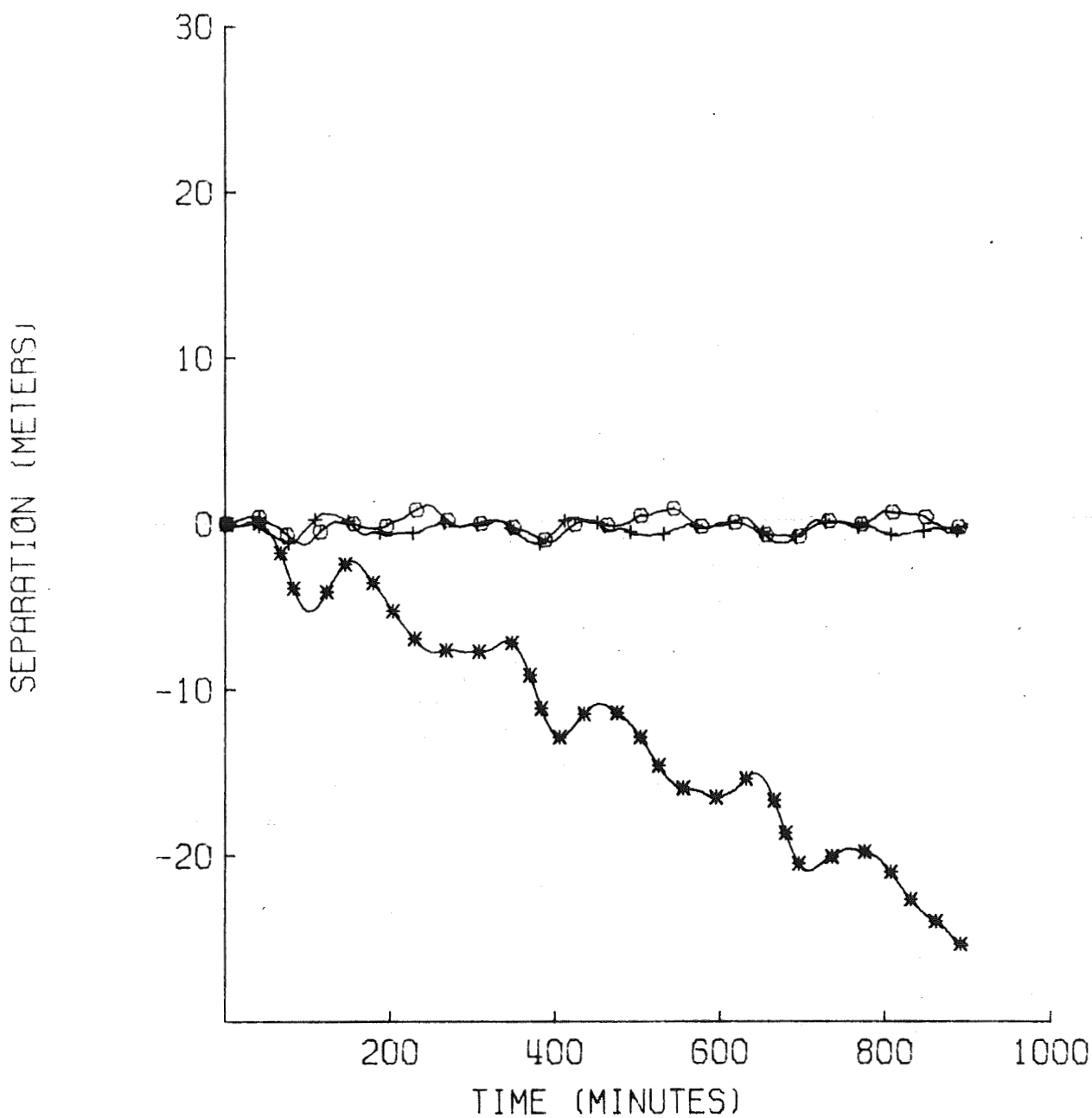
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,5) = .0778
 FACTOR USED IS 1.000000

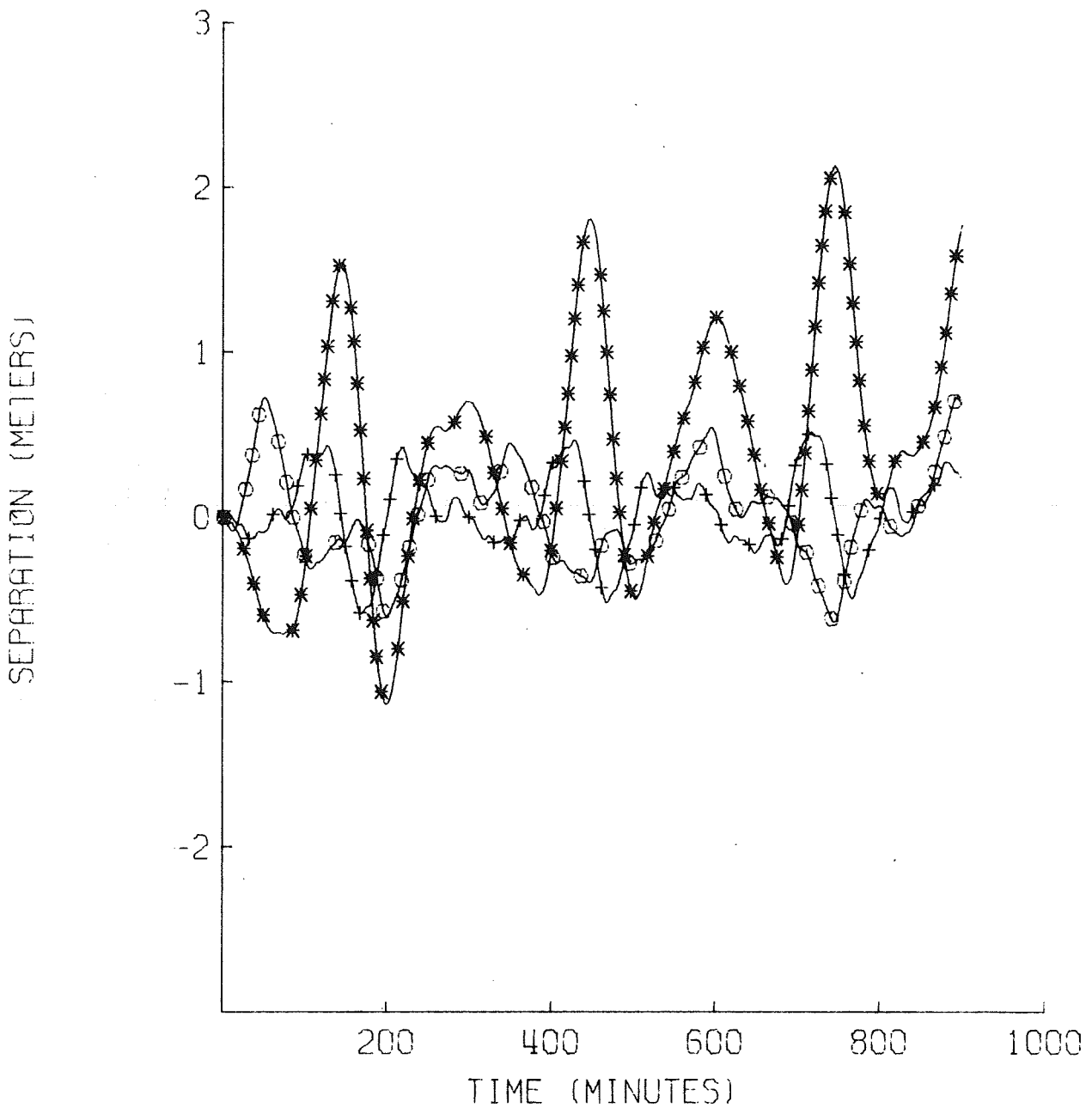
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(13,5) = -.0457
FACTOR USED IS 1.000000

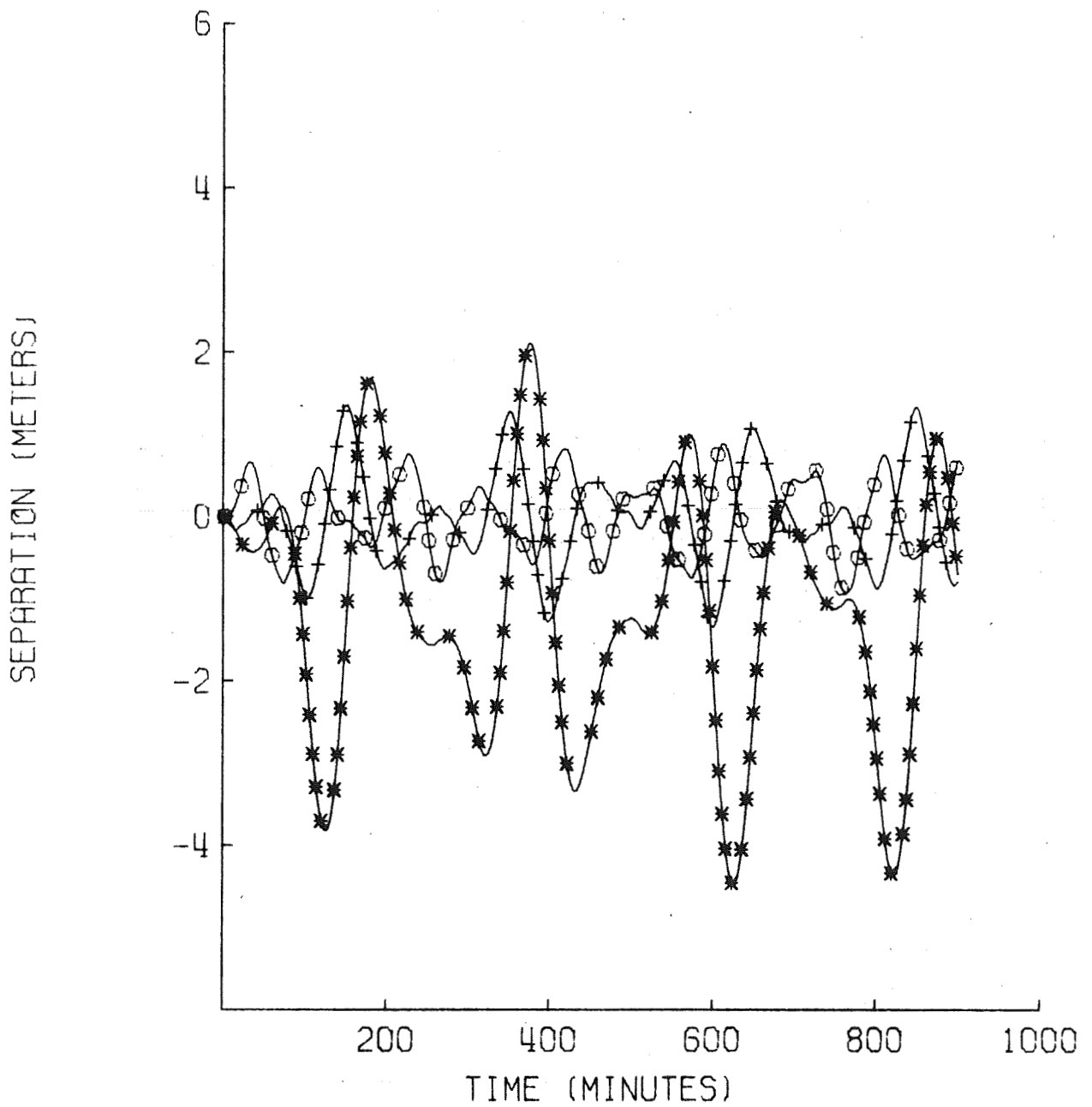
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,6) = -.0559
 FACTOR USED IS 1.000000

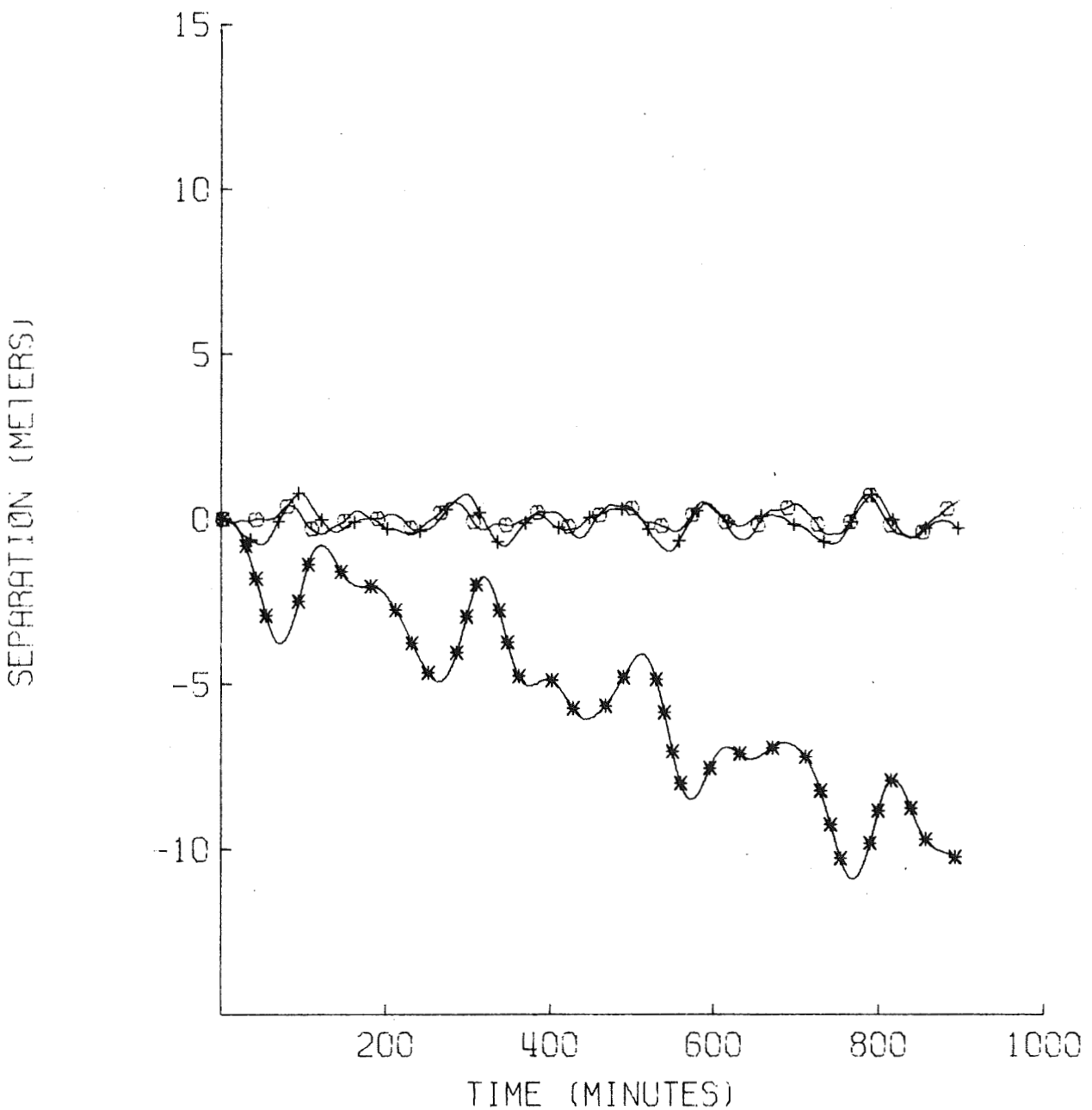
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(13.6) = .0419
 FACTOR USED IS 1.000000

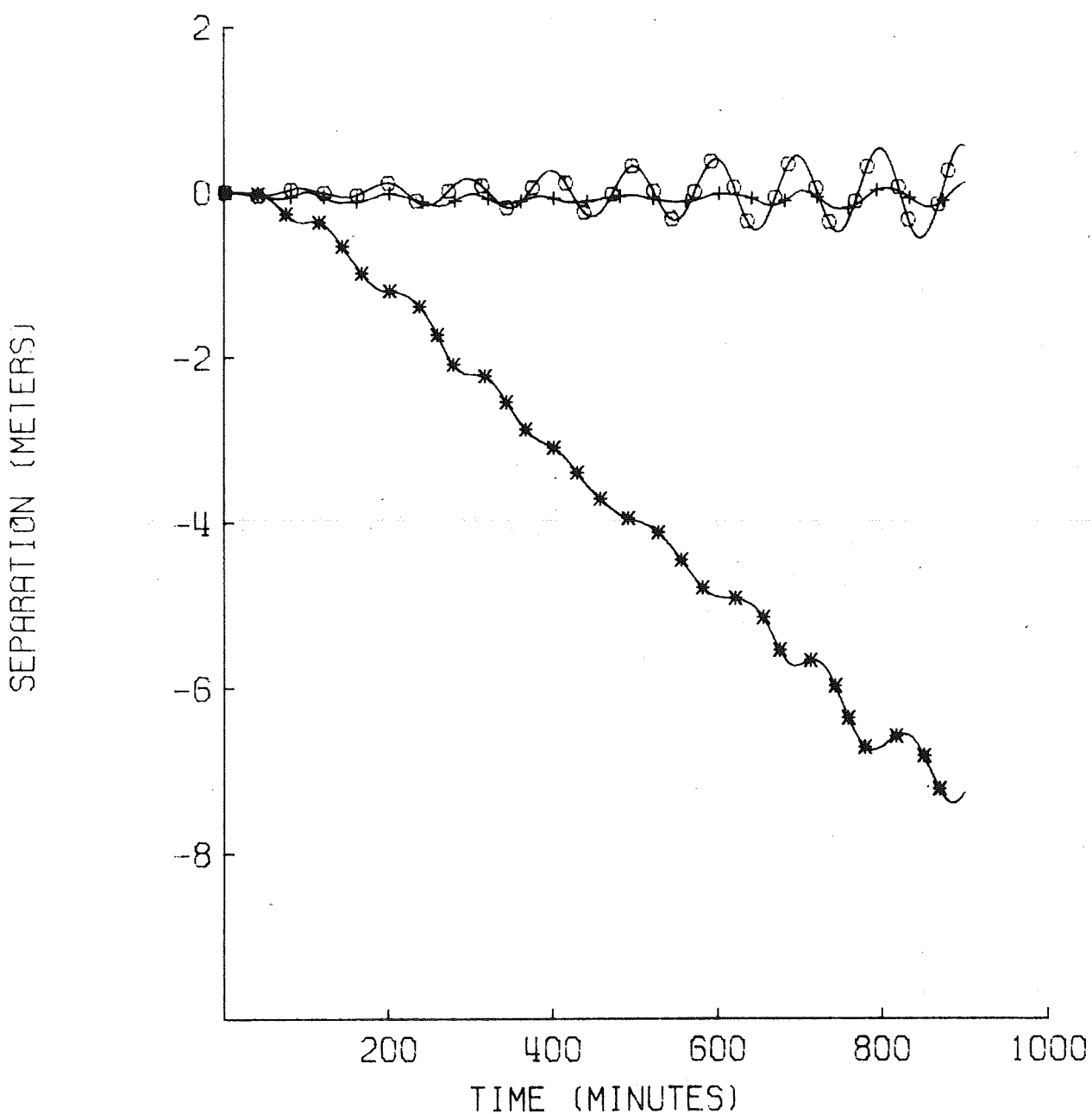
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,7) = -.0014
 FACTOR USED IS 1.000000

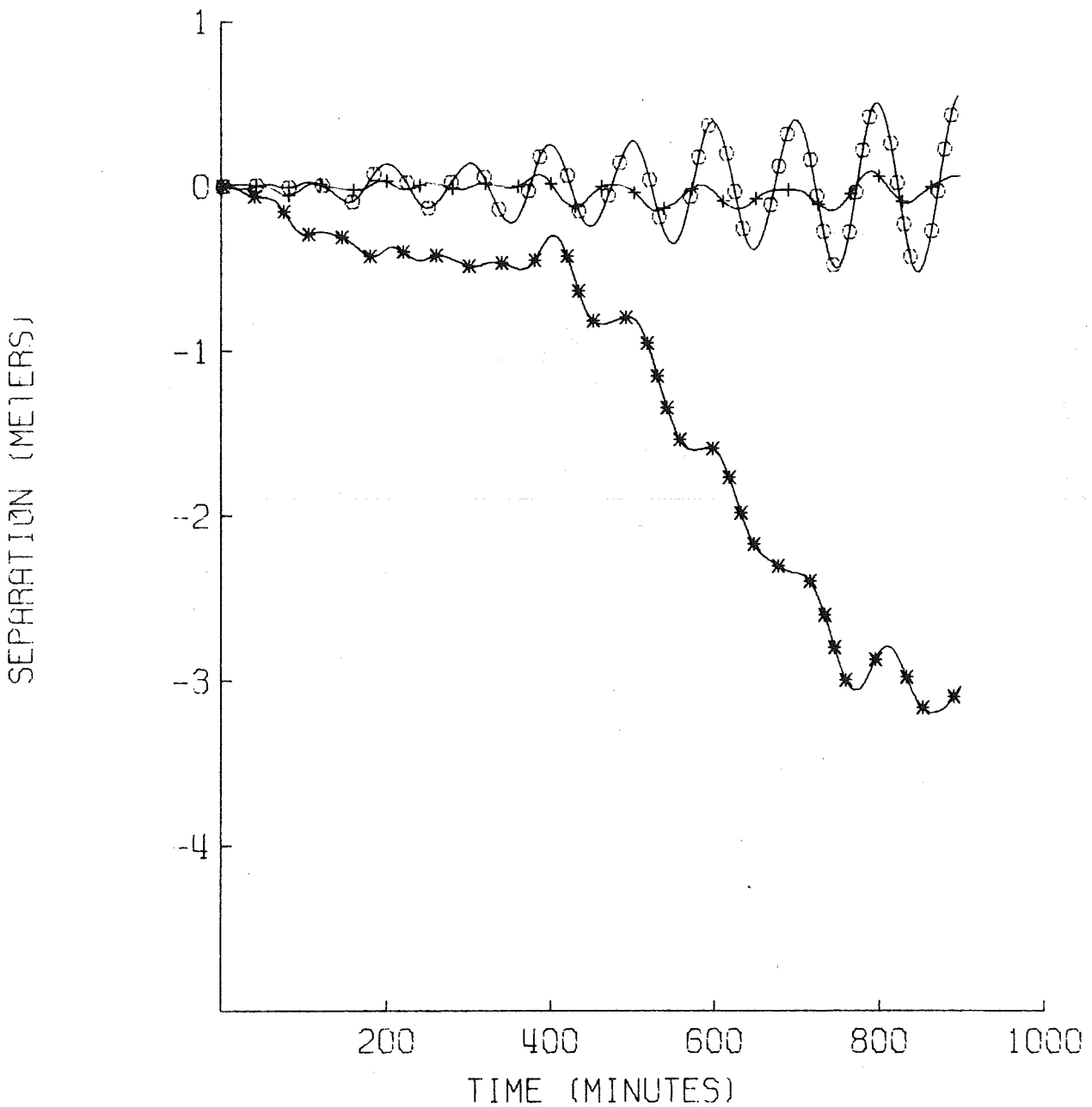
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(13,7) = .0026
 FACTOR USED IS 1.000000

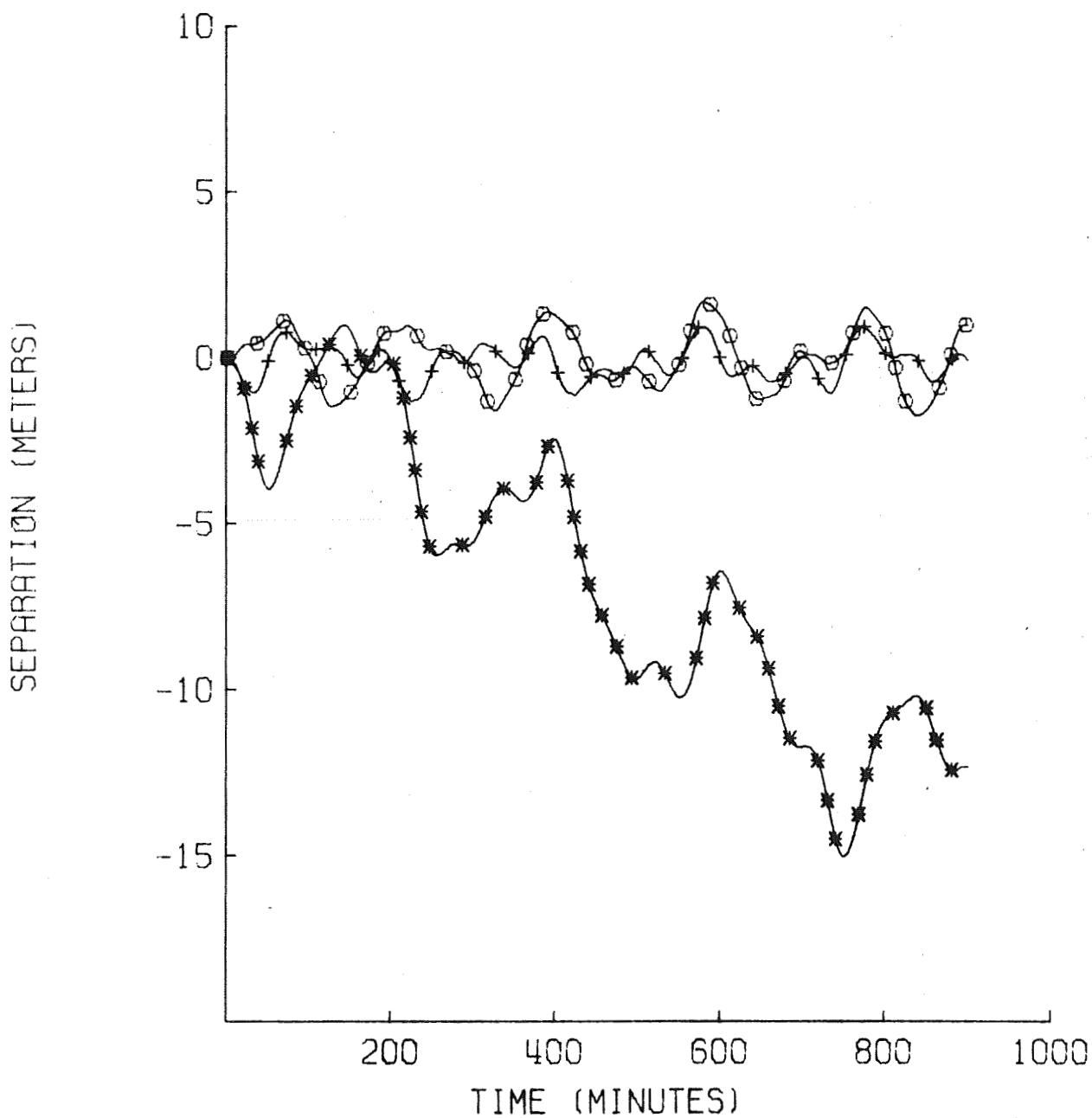
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,8) = -.0717
 FACTOR USED IS 1.000000

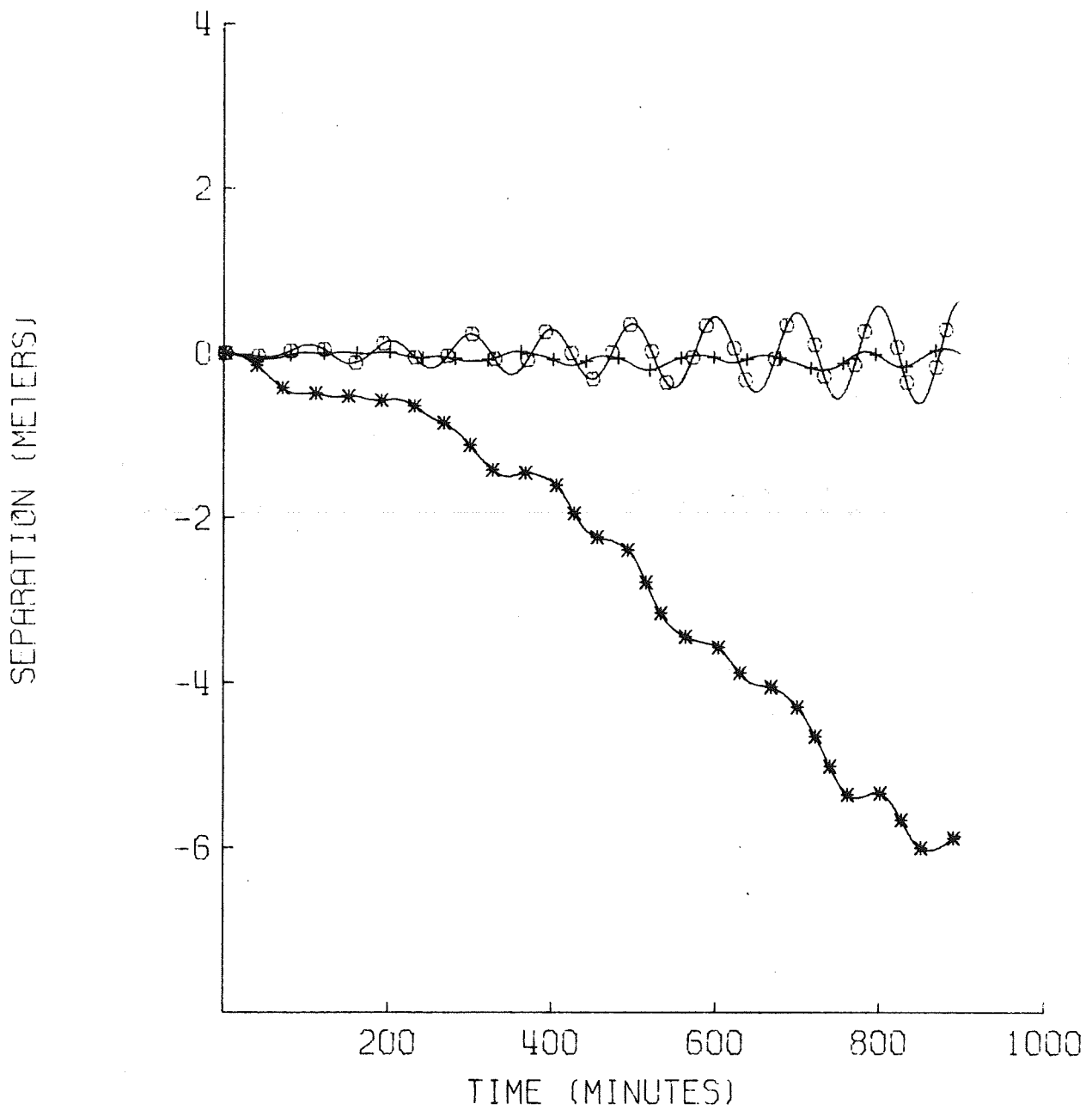
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(13.8) = .0001
 FACTOR USED IS 1.000000

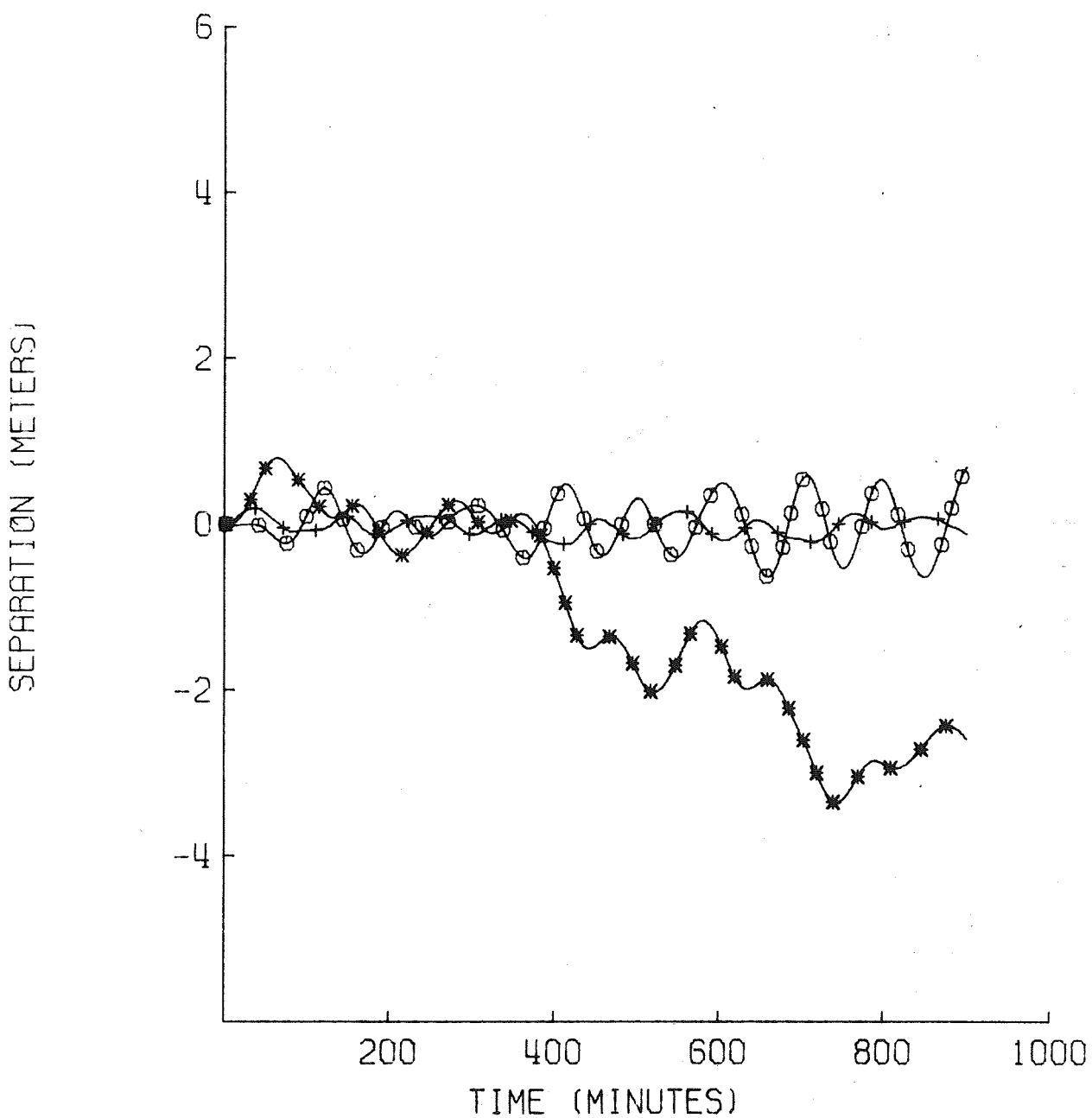
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊕) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(13,9) = -.0093
FACTOR USED IS 1.000000

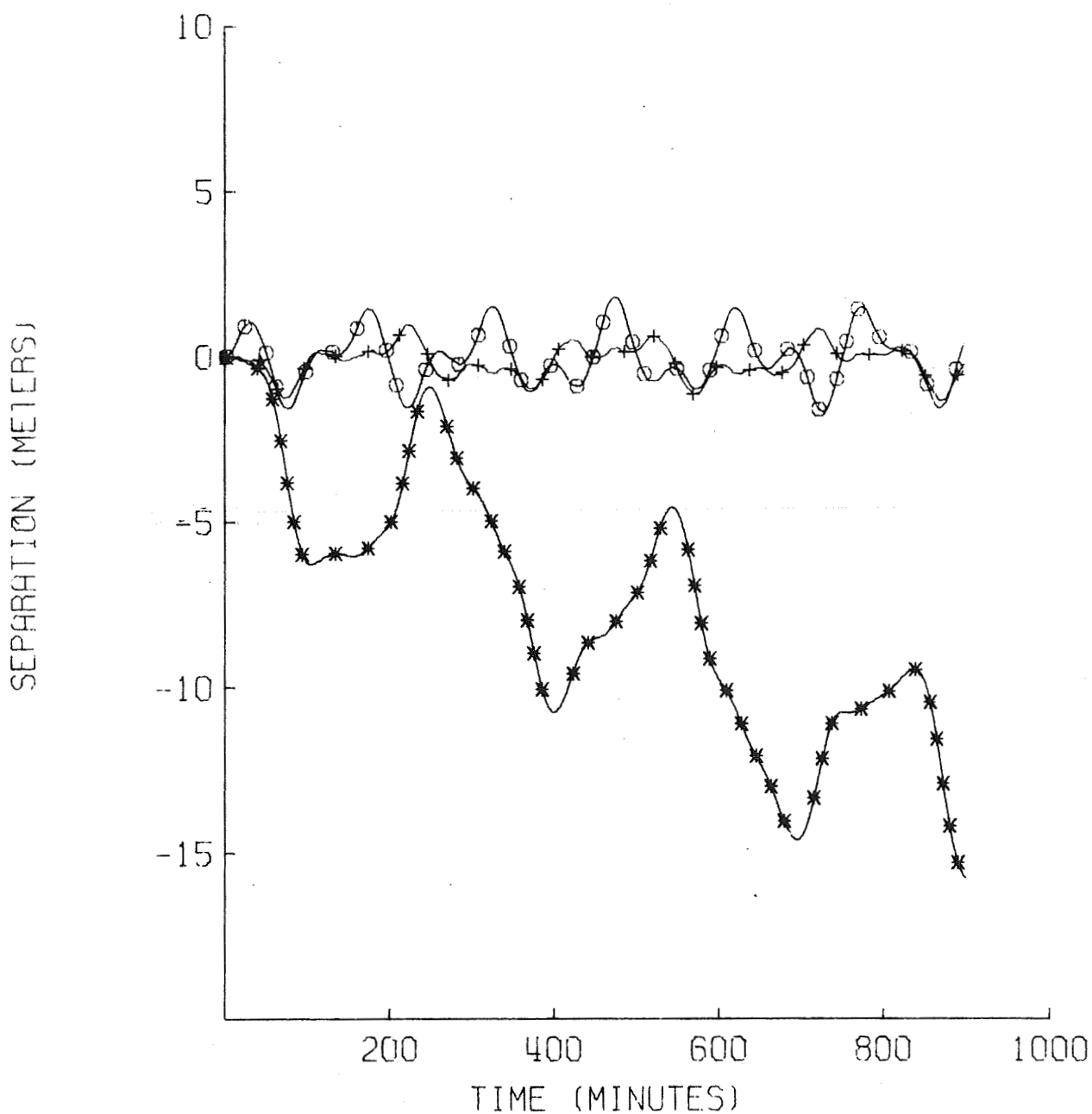
- (*) IN-TRACK
- (+) PRINCIPAL NORMAL CROSS-TRACK
- (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(13.9) = .0653
 FACTOR USED IS 1.000000

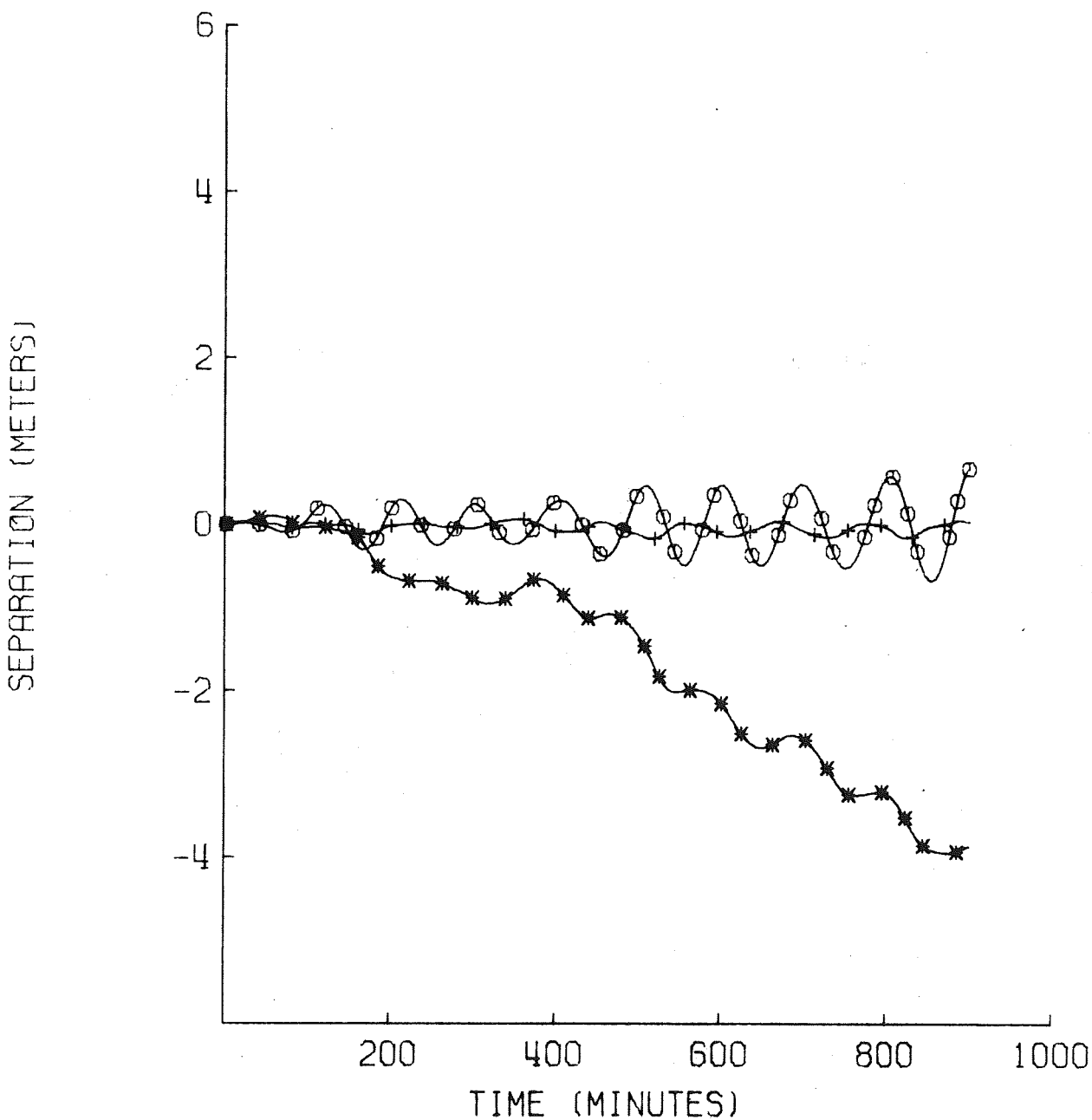
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	Ω	C	Ω	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

RUN FOR C(13,10) = .0052
 FACTOR USED IS 1.000000

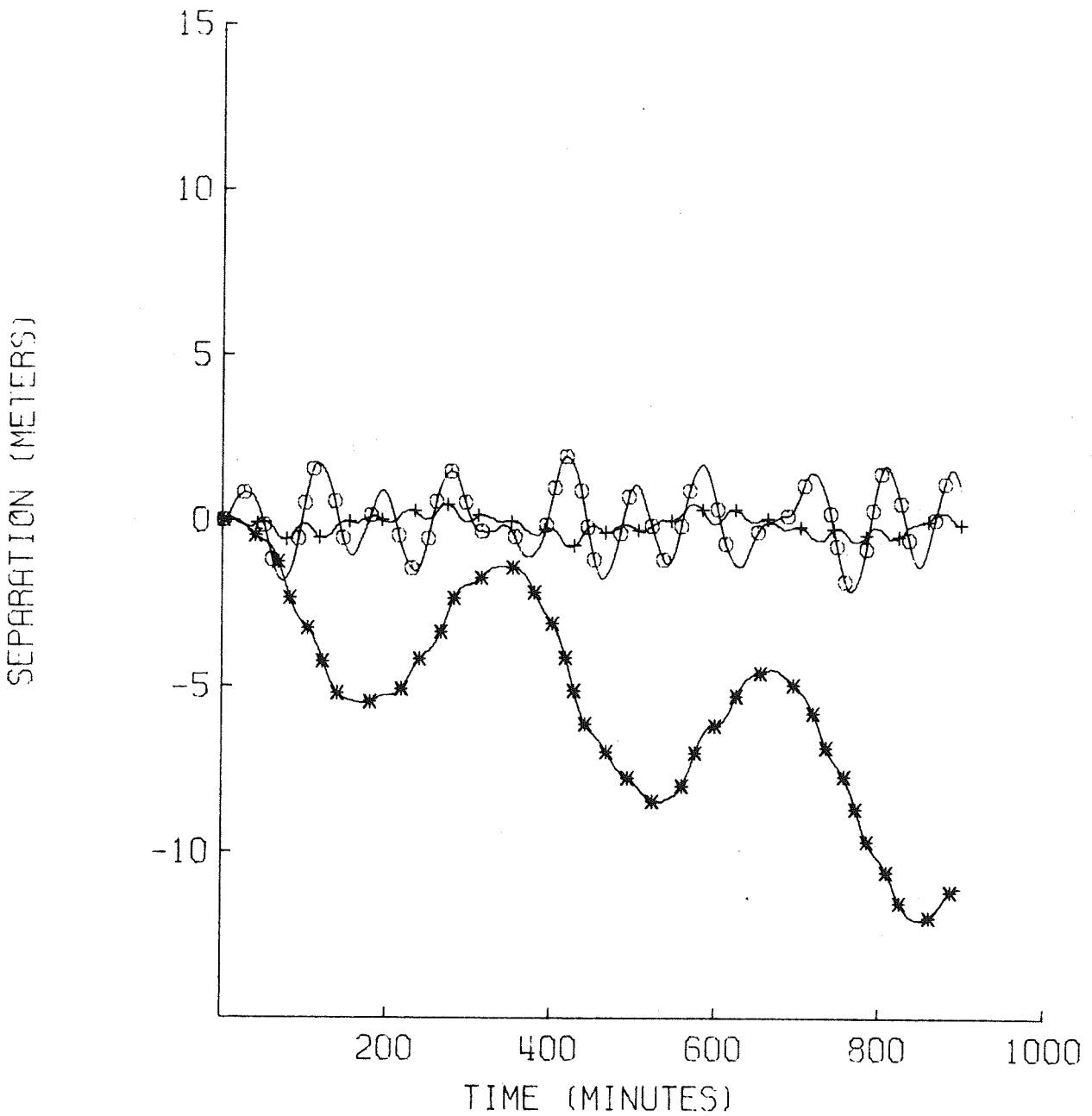
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (○) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(13, 10) = -.0668
FACTOR USED IS 1.000000

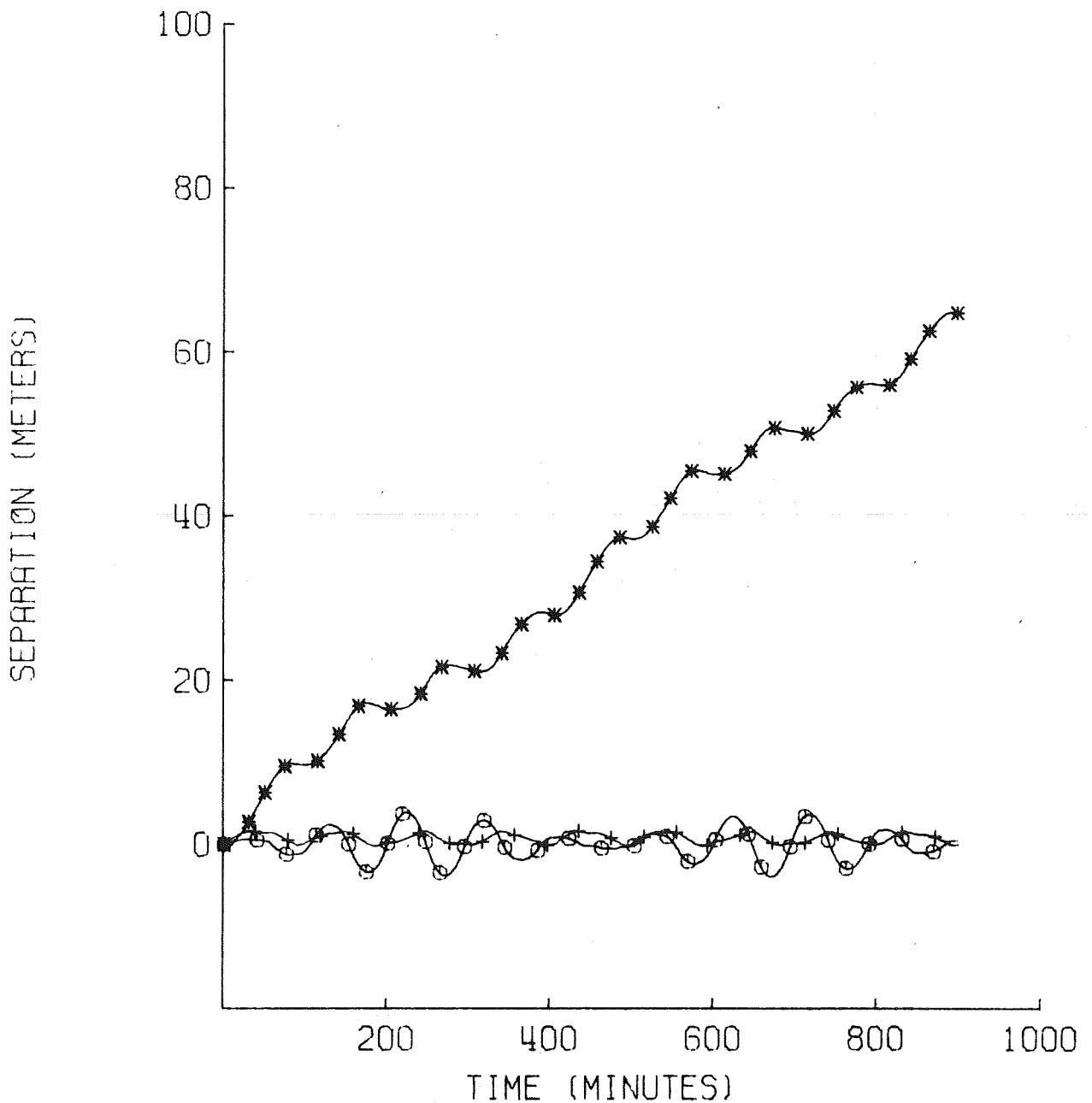
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13, 11) = -.0908
FACTOR USED IS 1.000000

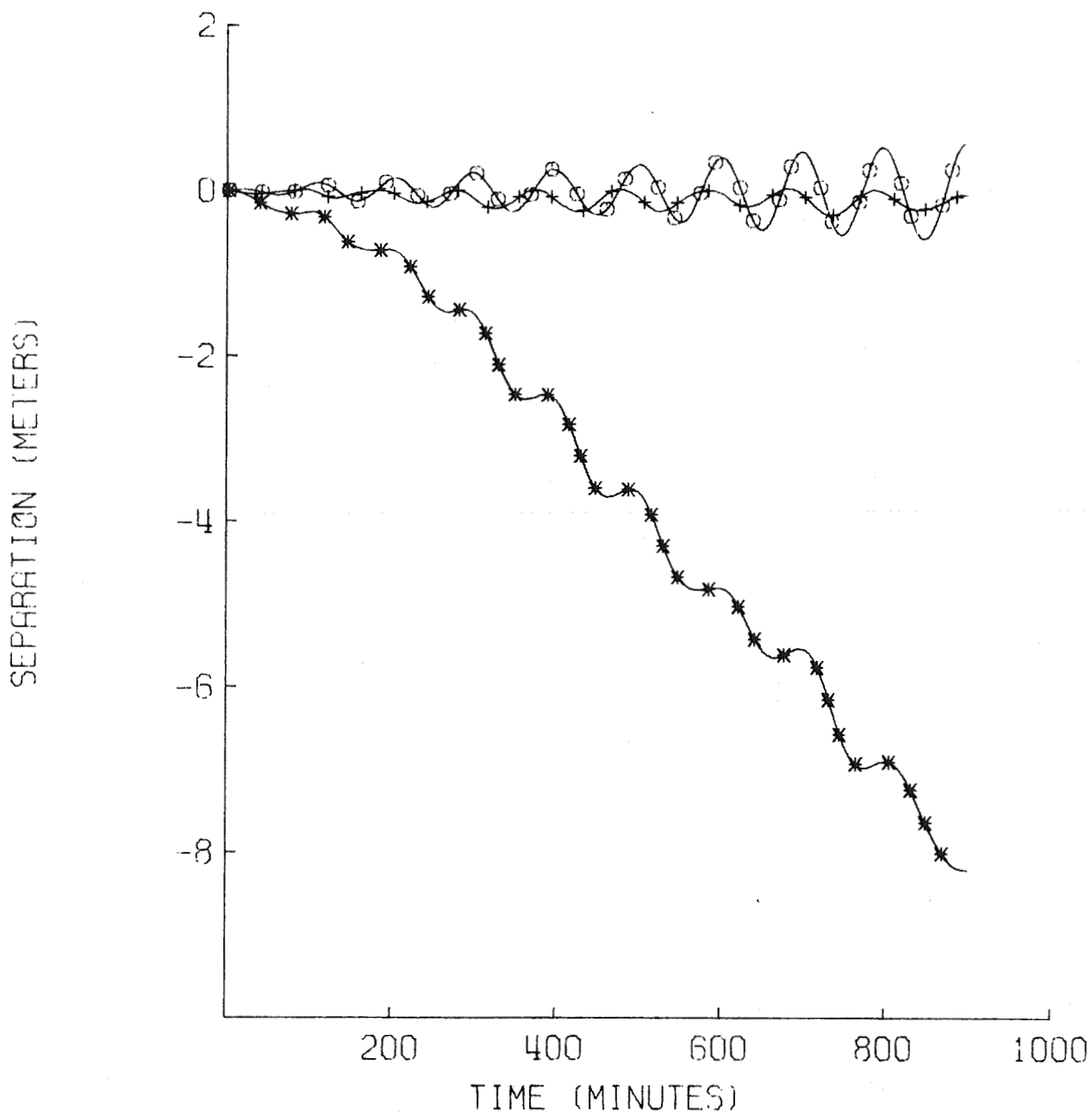
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(13,11) = .0020
FACTOR USED IS 1.000000

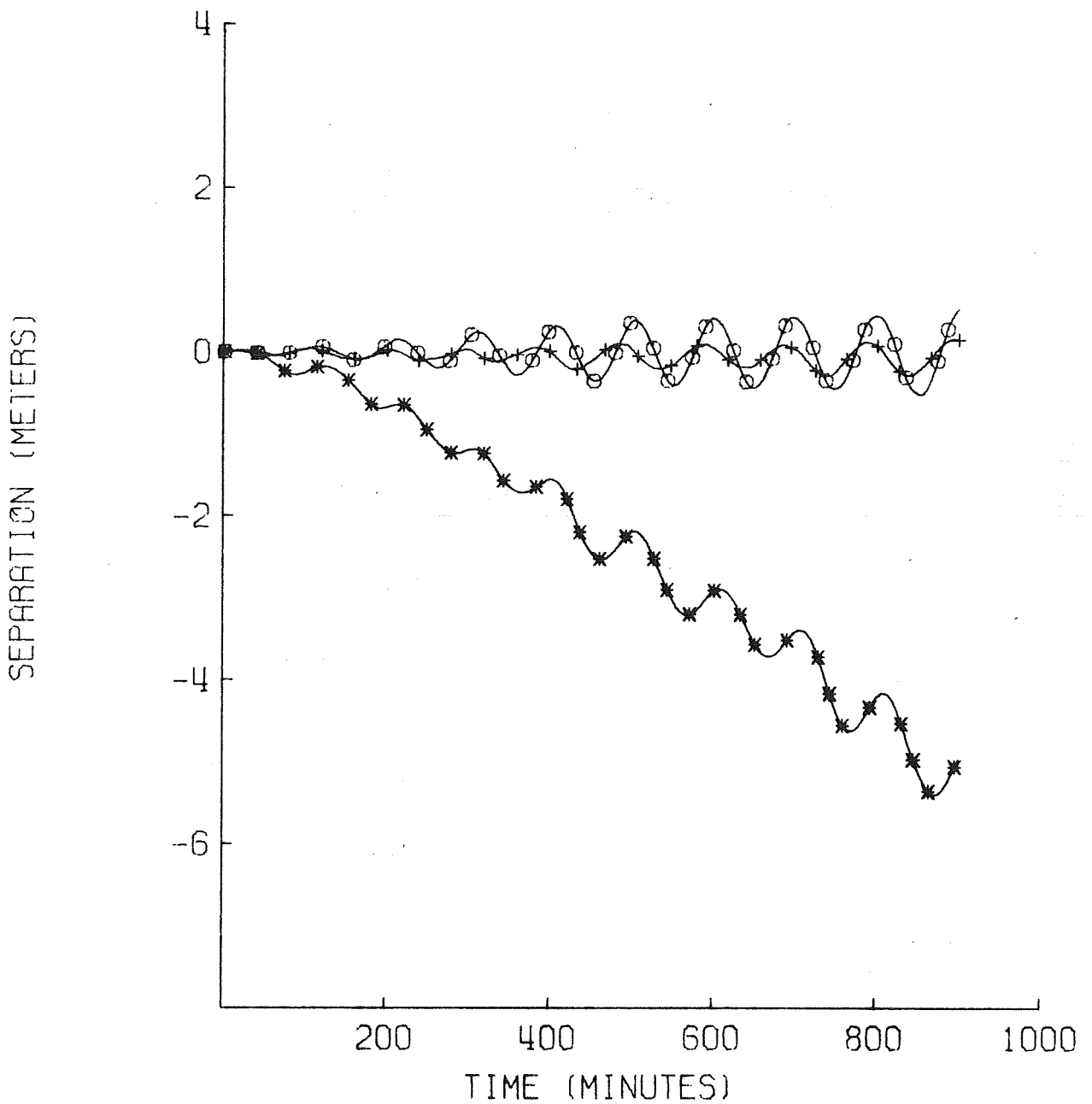
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,12) = .0060
 FACTOR USED IS 1.000000

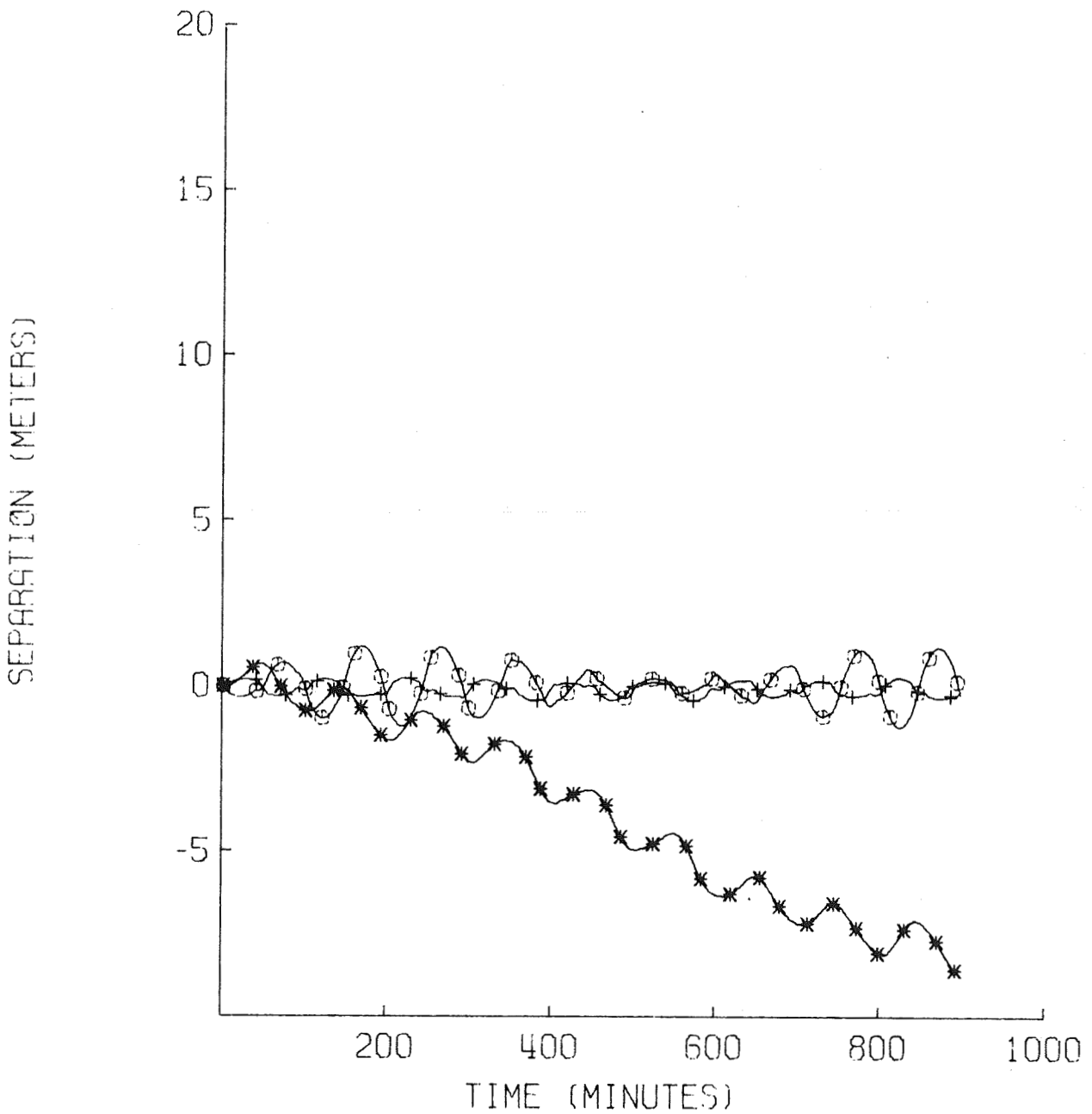
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(13,12) = .0650
FACTOR USED IS 1.000000

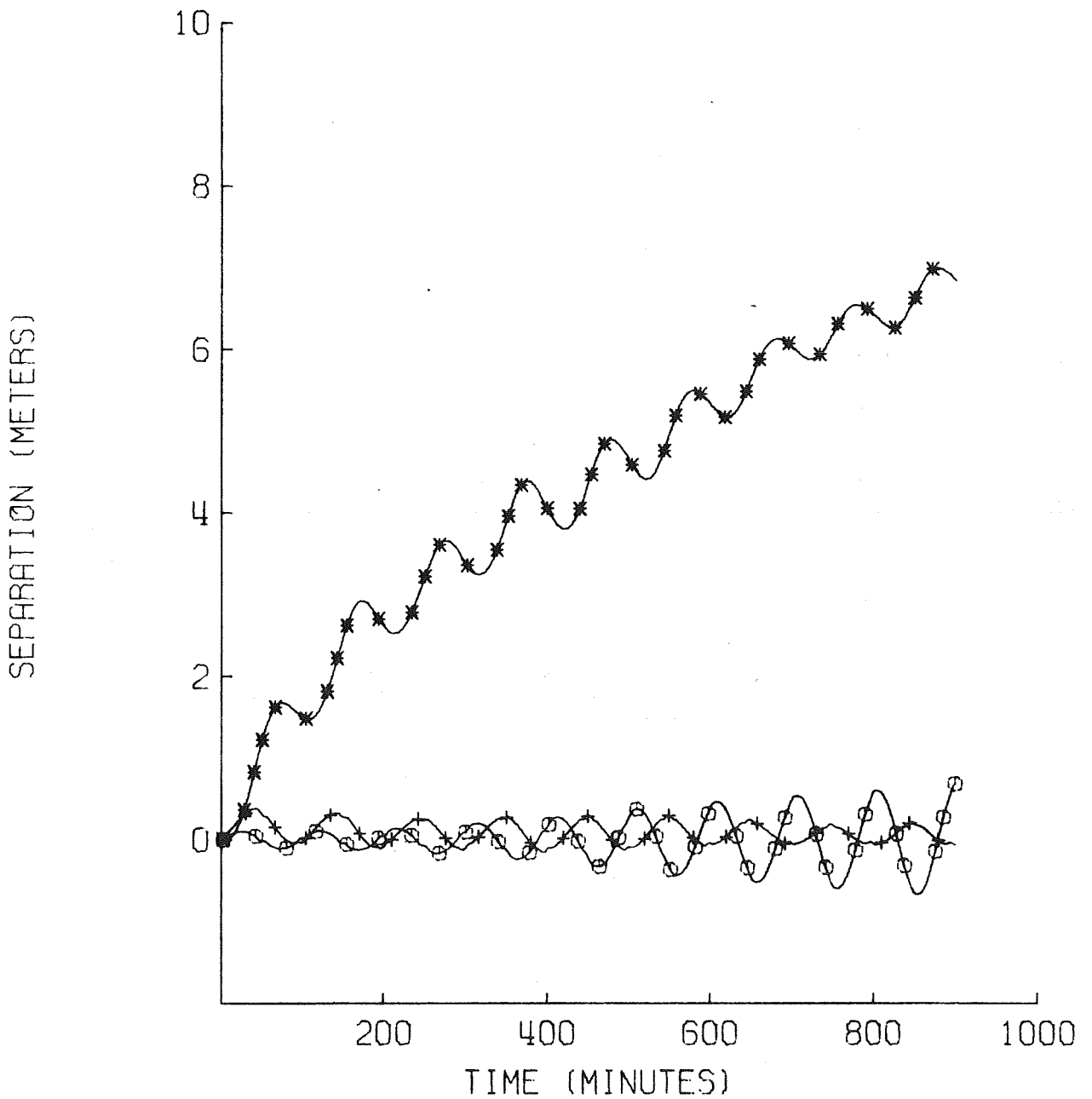
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,13) = -.0203
 FACTOR USED IS 1.000000

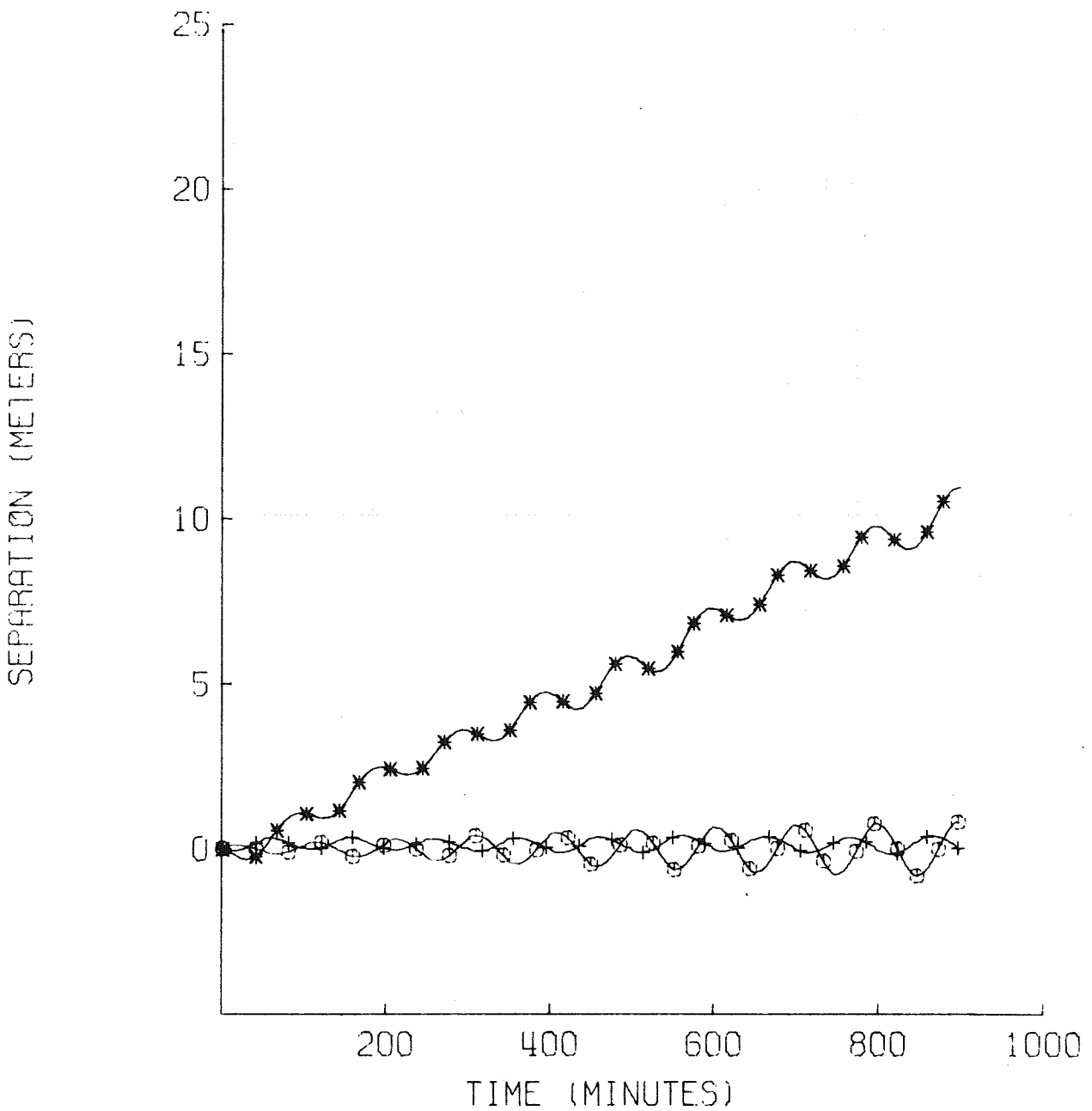
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(13, 13) = .0250
 FACTOR USED IS 1.000000

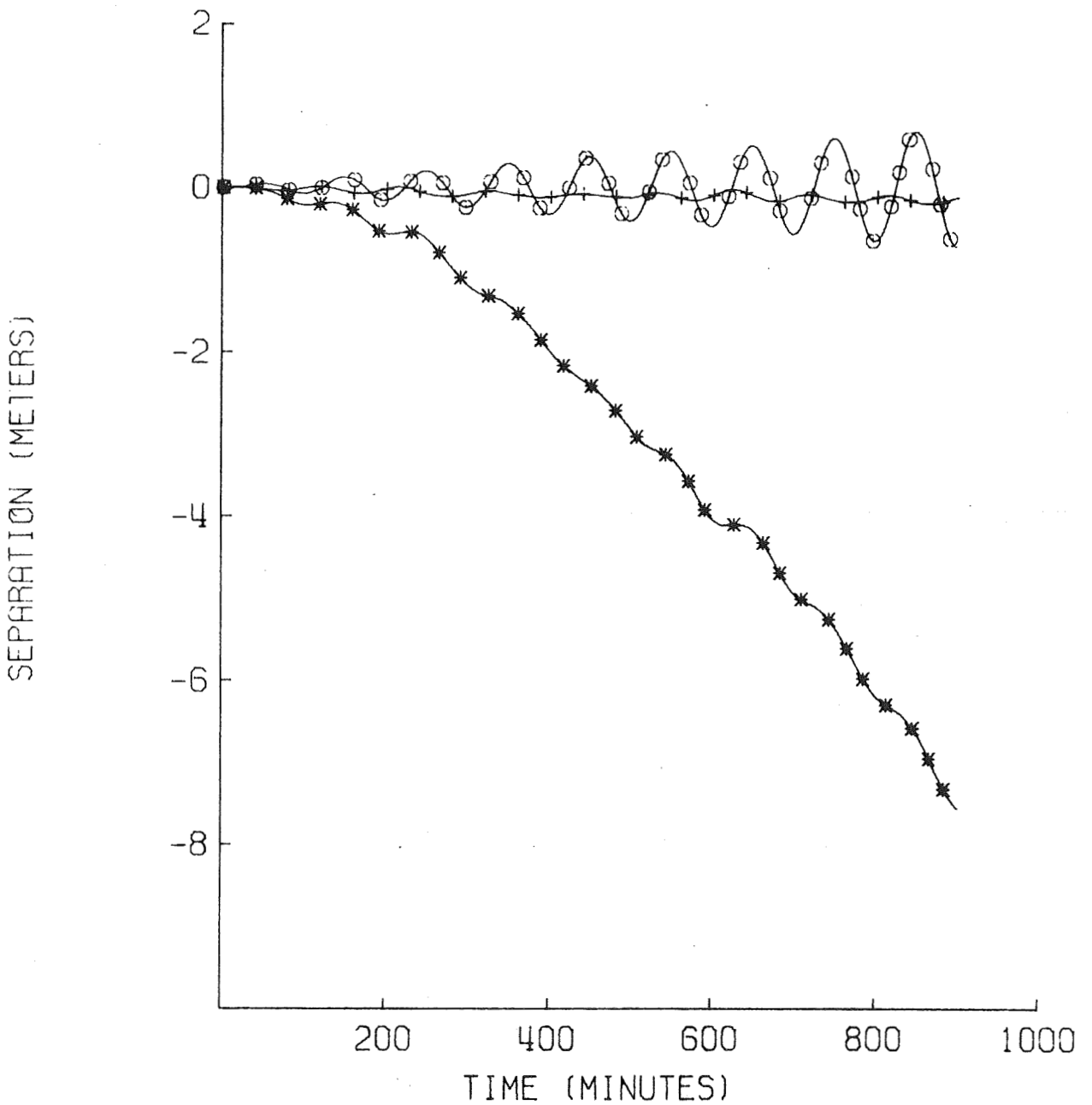
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(14,0) = -.0025
FACTOR USED IS 1.000000

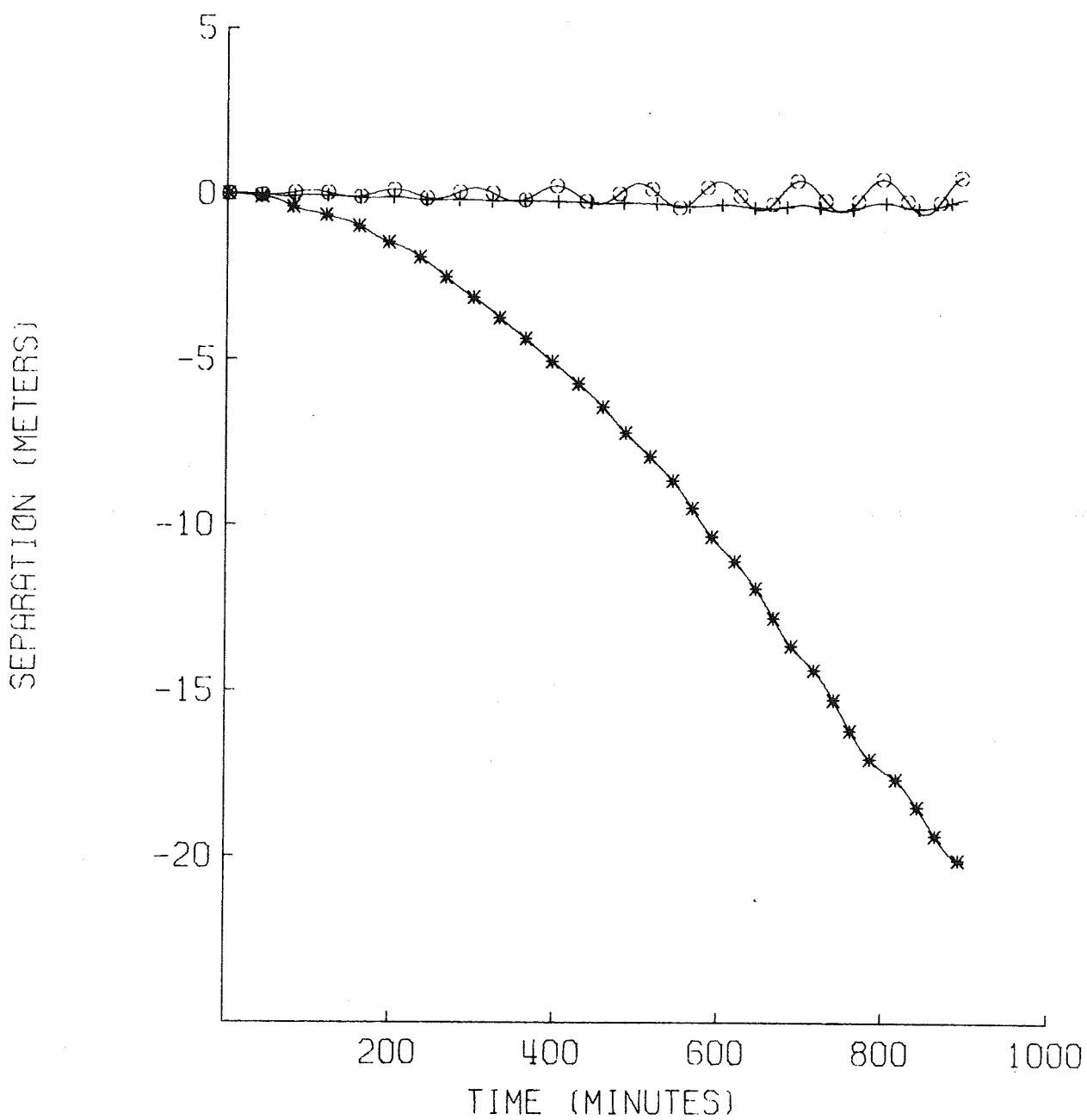
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .0050000 7136.6535

RUN FOR C(14,1) = -.0019
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

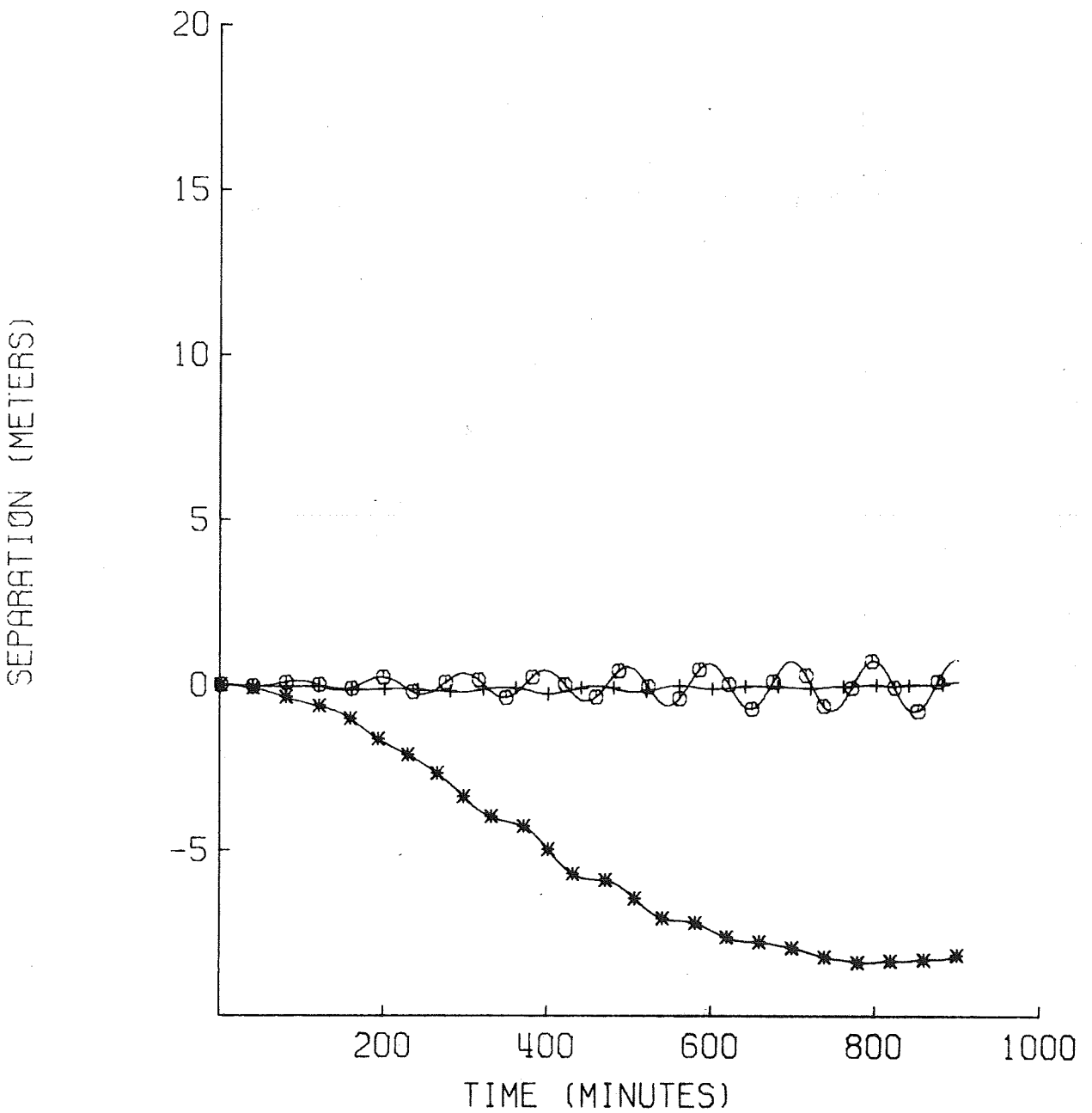
RUN FOR S(14,1) = -.0099

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

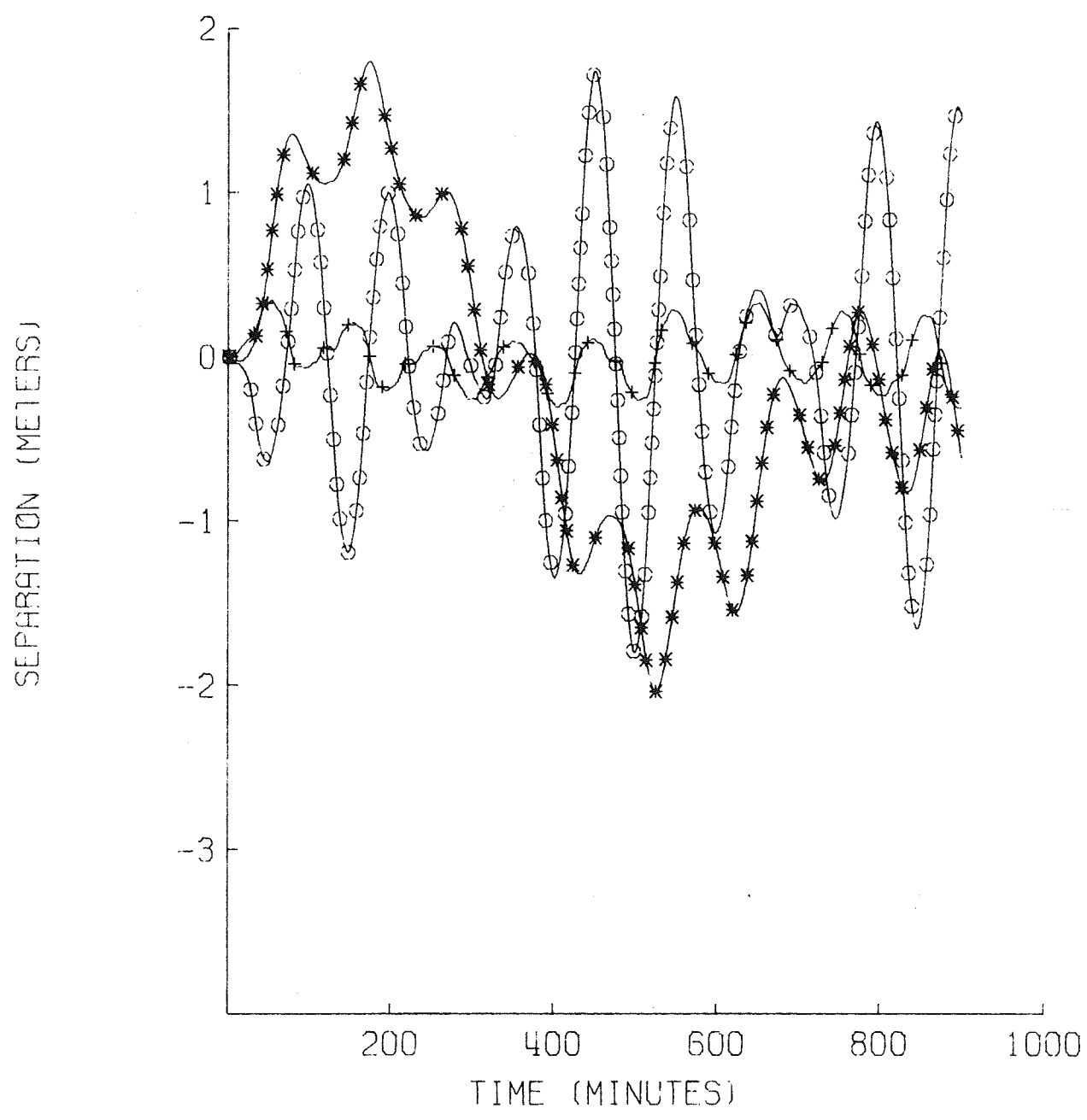
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
 0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(14,2) = -.0651
 FACTOR USED IS 1.000000

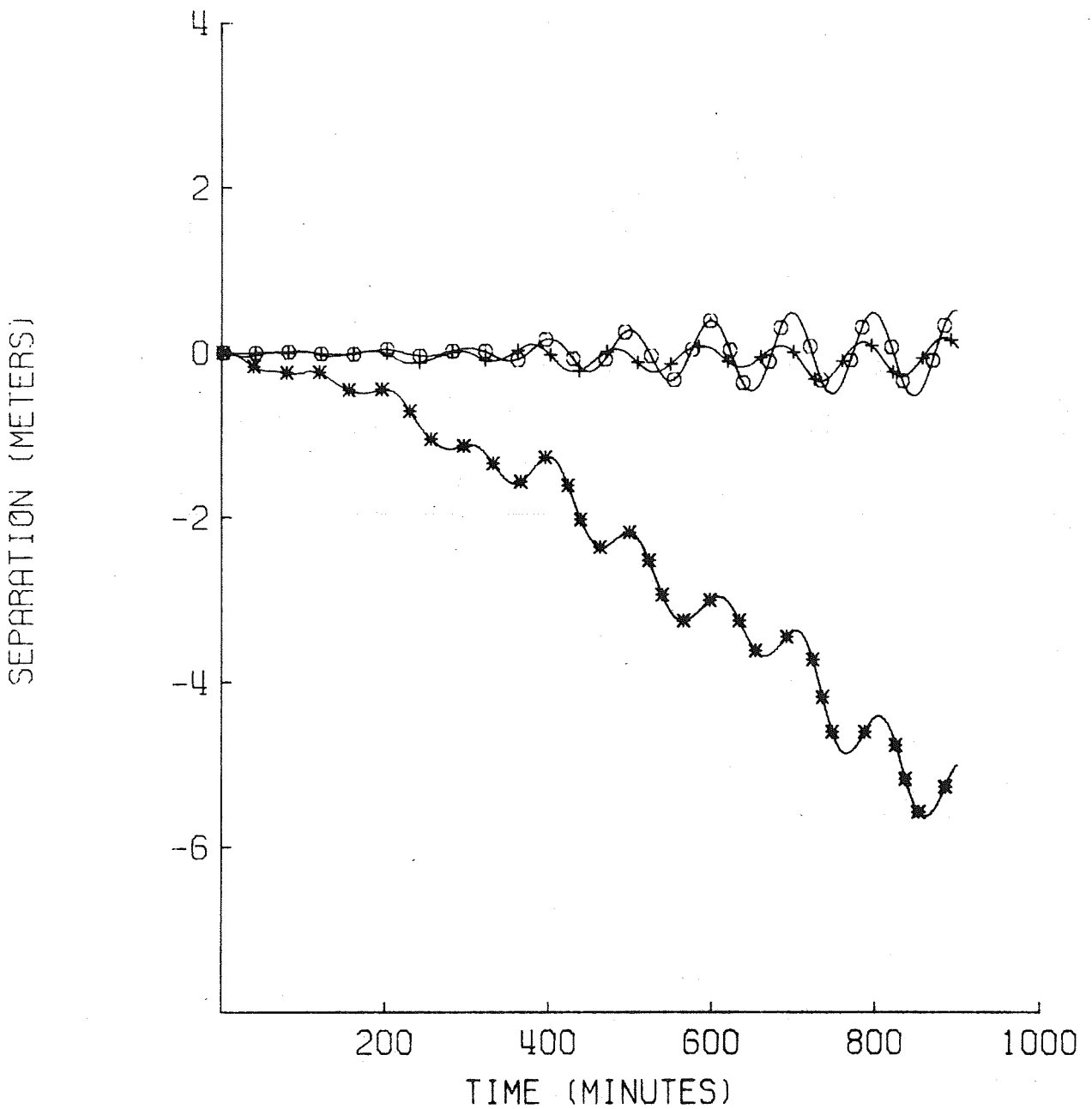
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14, 2) = -.0027
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

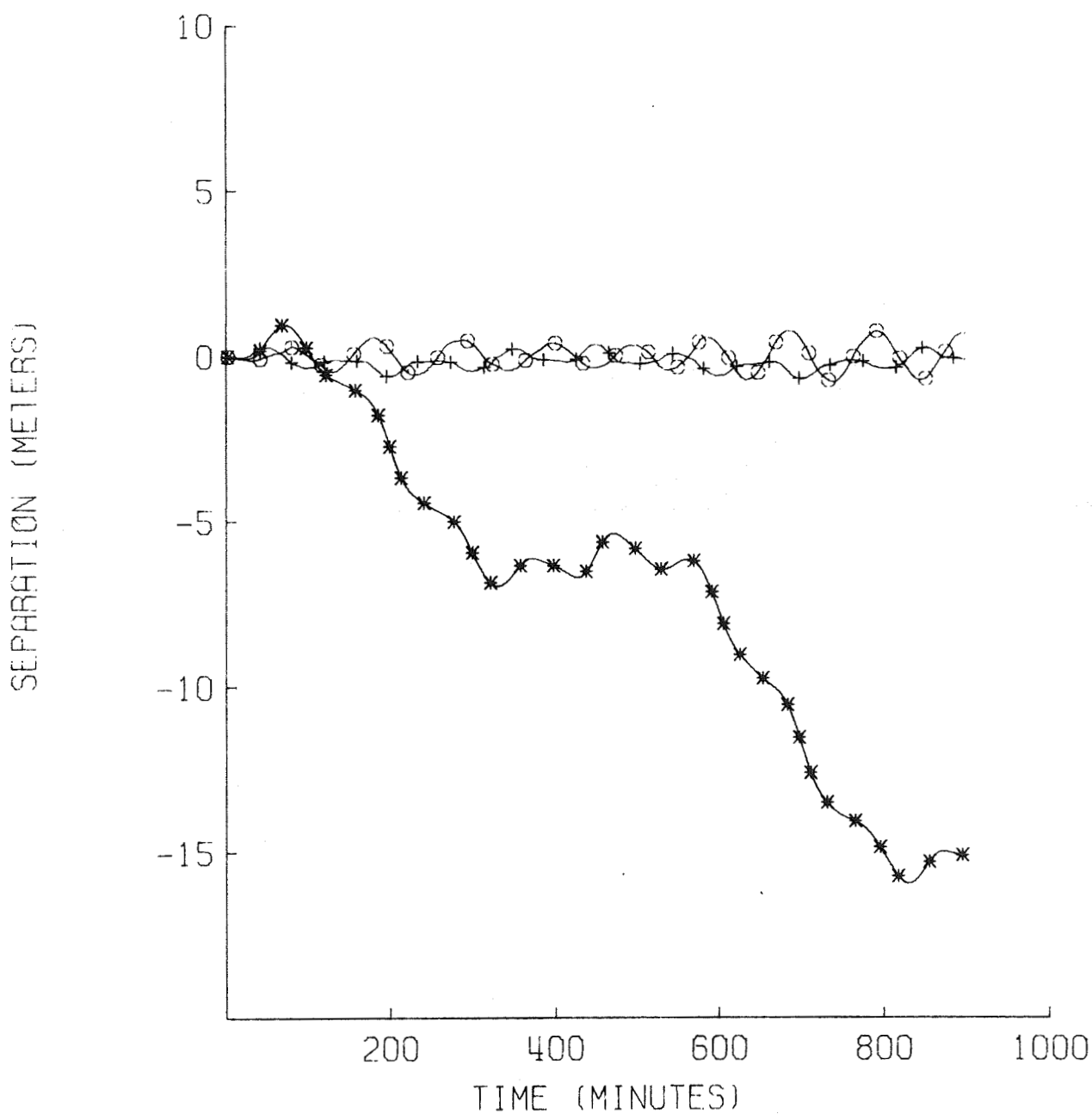
RUN FOR C(14,3) = .0457

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

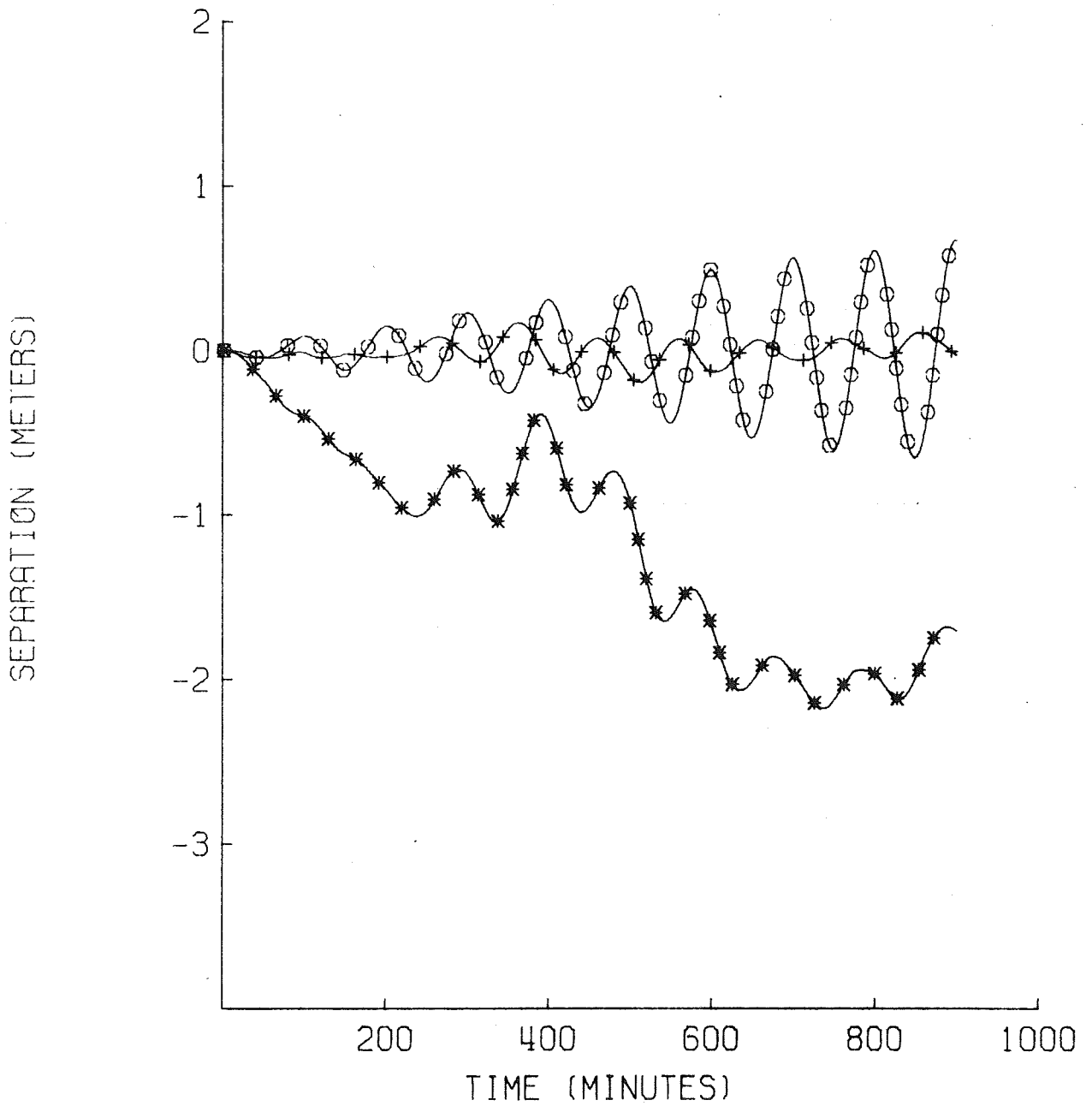
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14 , 3) = .0012
 FACTOR USED IS 1.000000

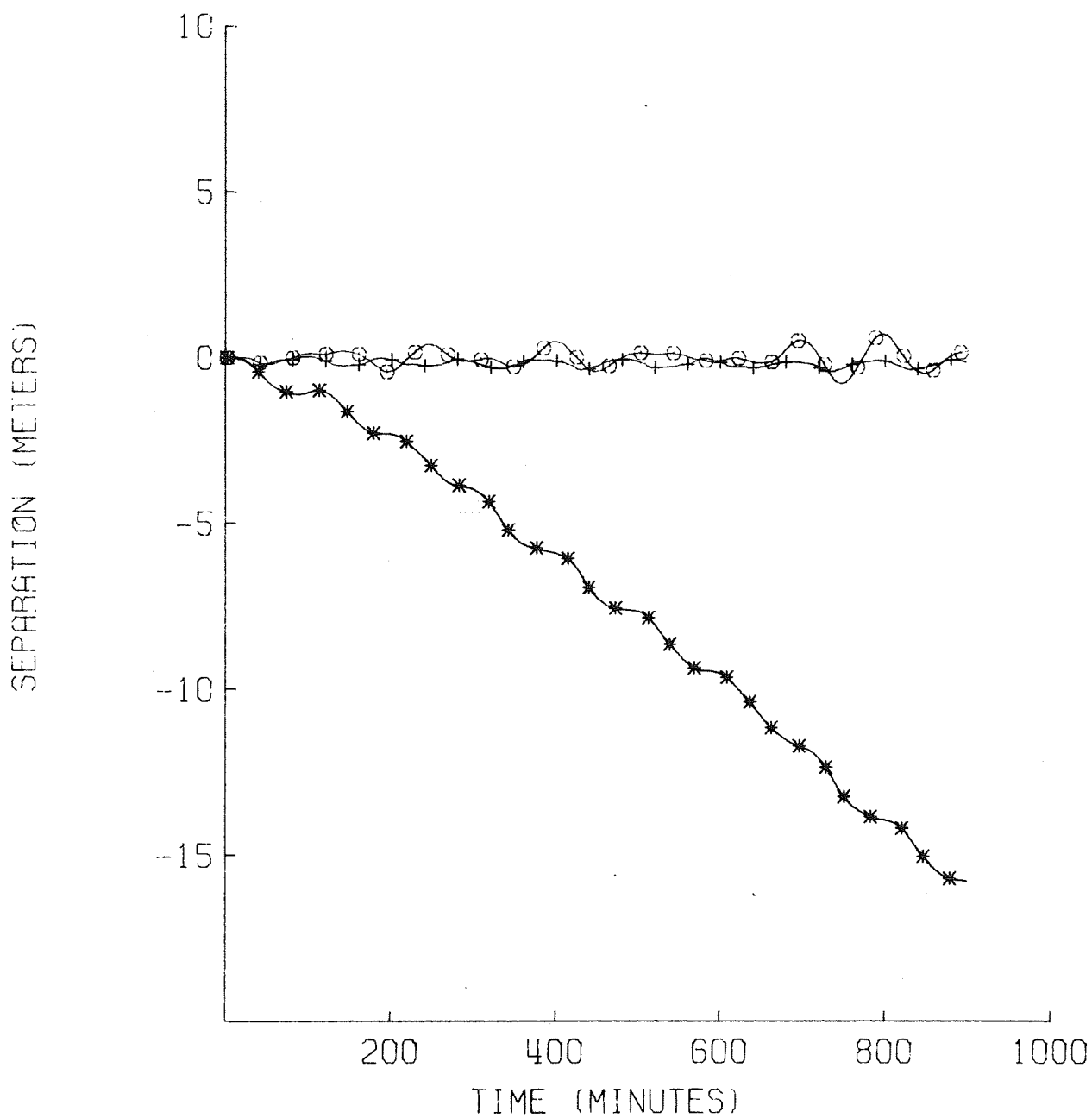
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14 , 4) = .0233
 FACTOR USED IS 1.000000

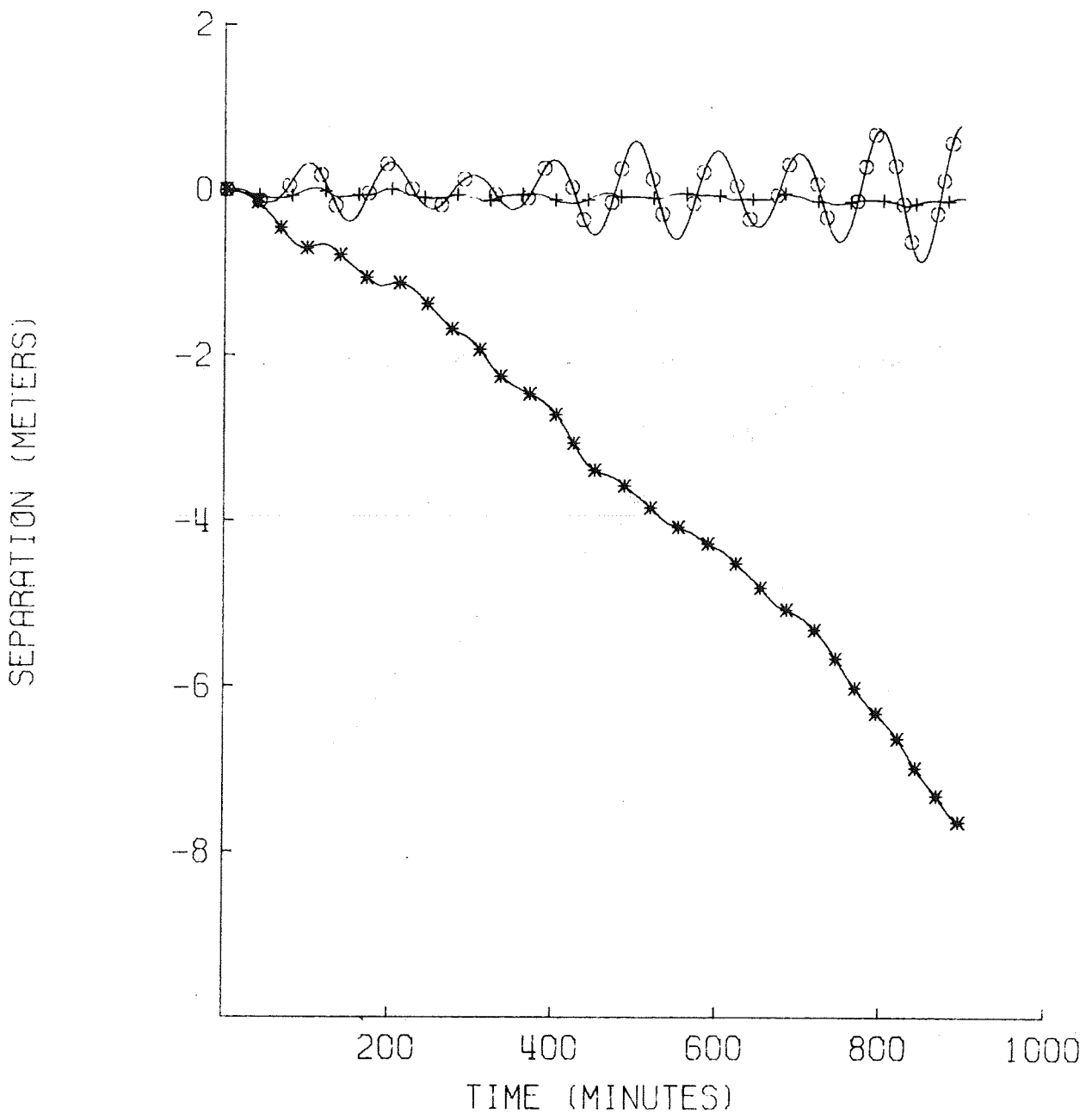
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(14,4) = -.0091
FACTOR USED IS 1.000000

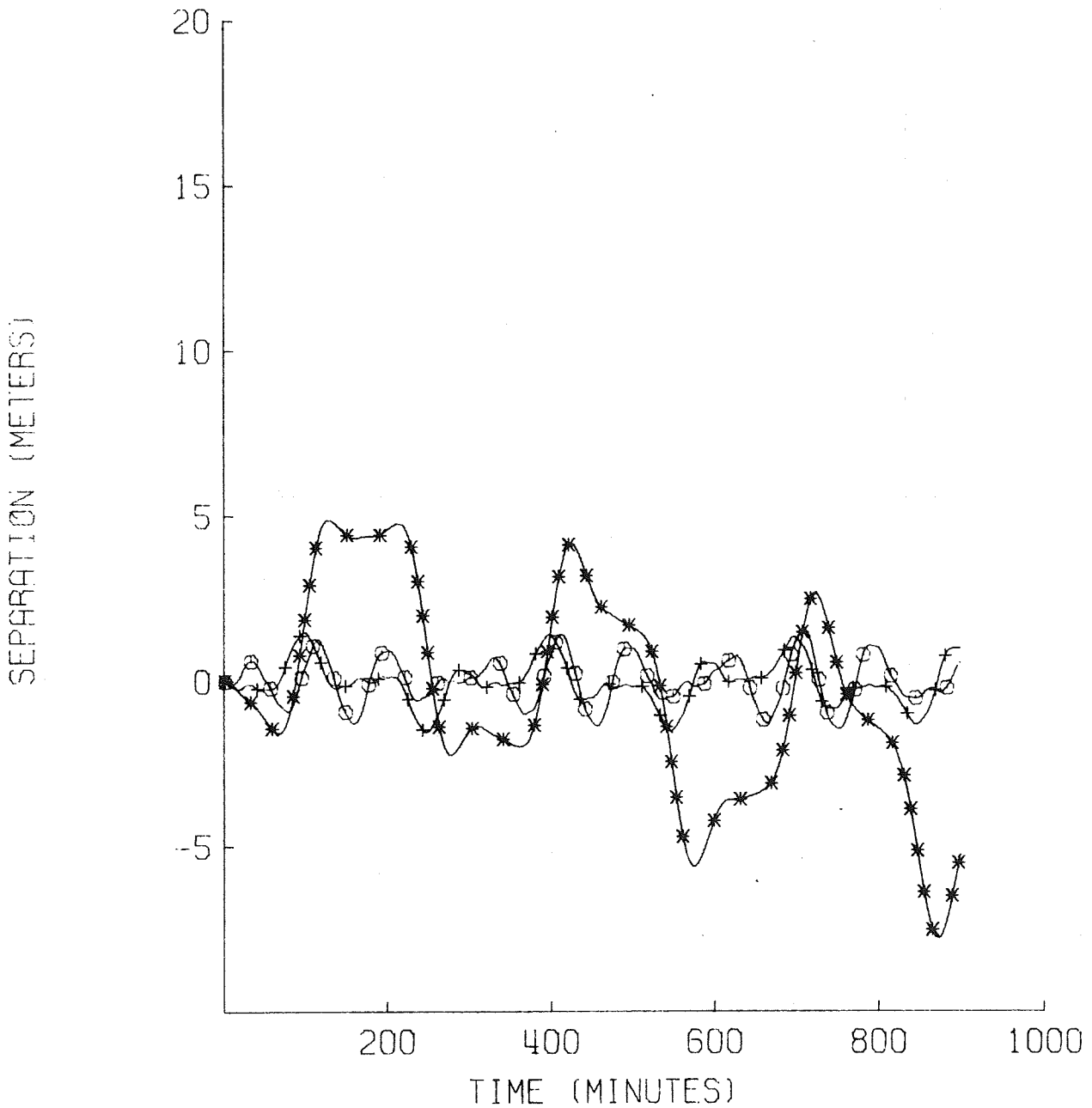
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14.5) = .1033
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

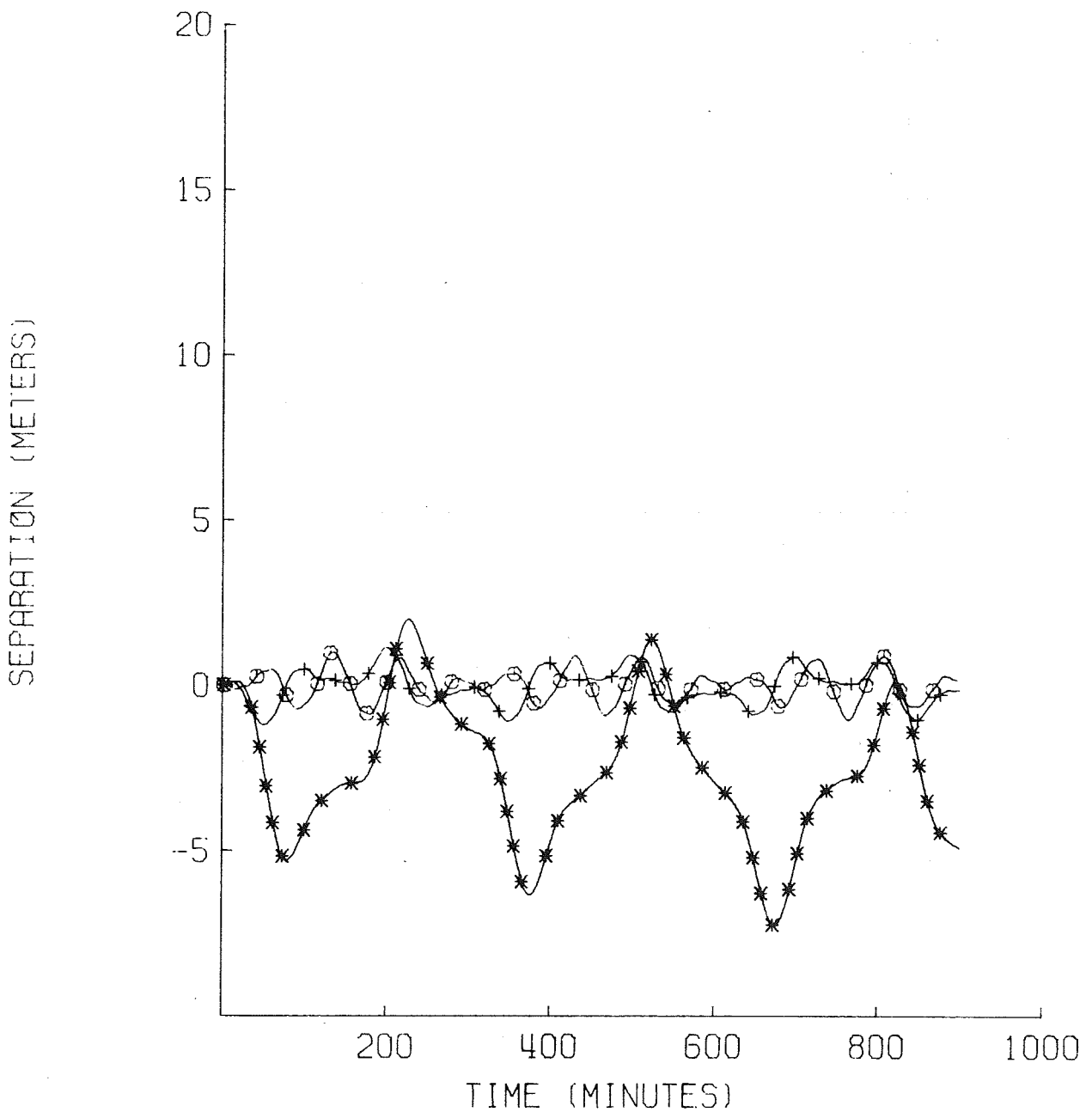


M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(14.5) = -.0849

FACTOR USED IS 1.000000

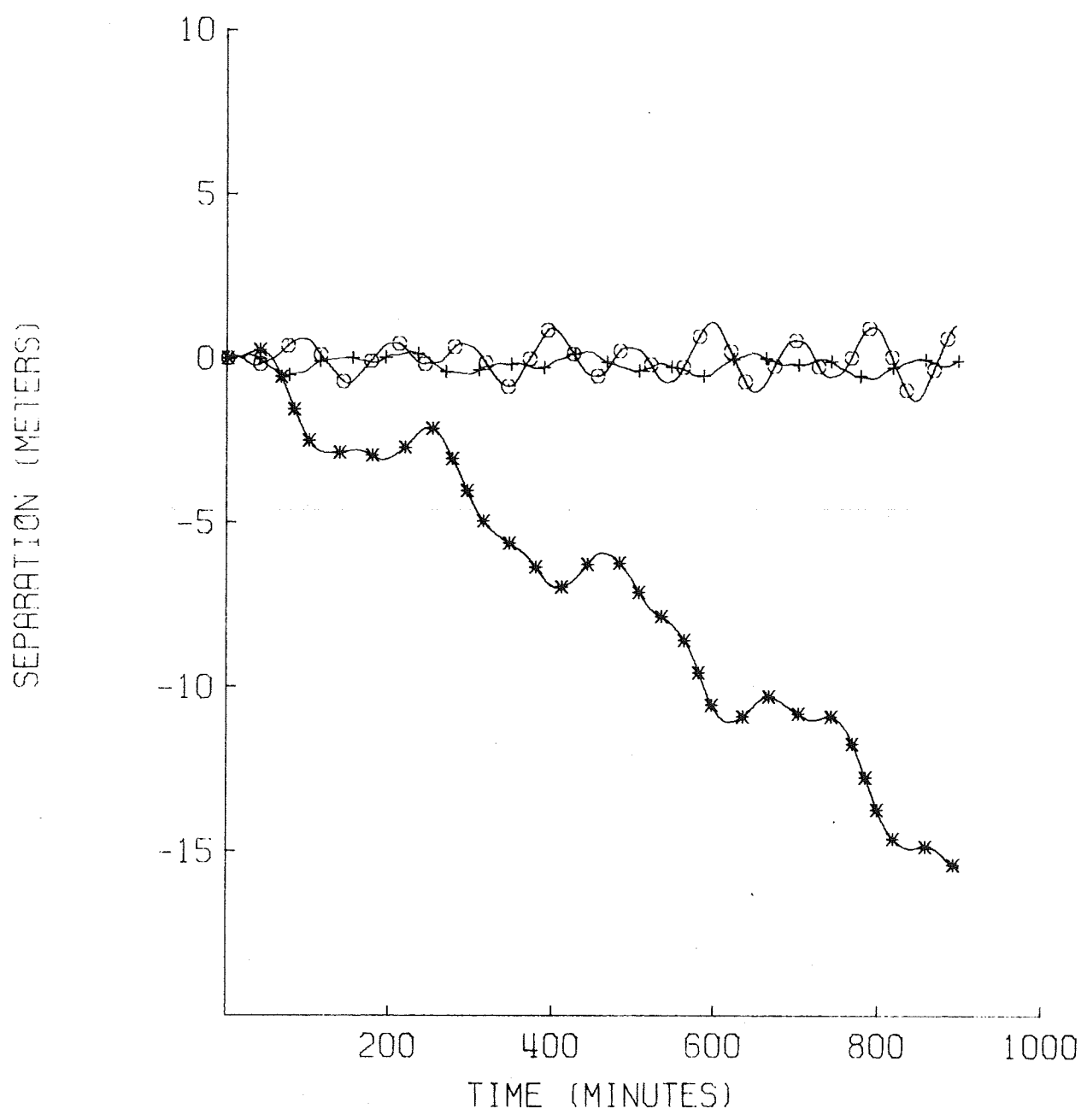
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14,6) = .0353
 FACTOR USED IS 1.000000

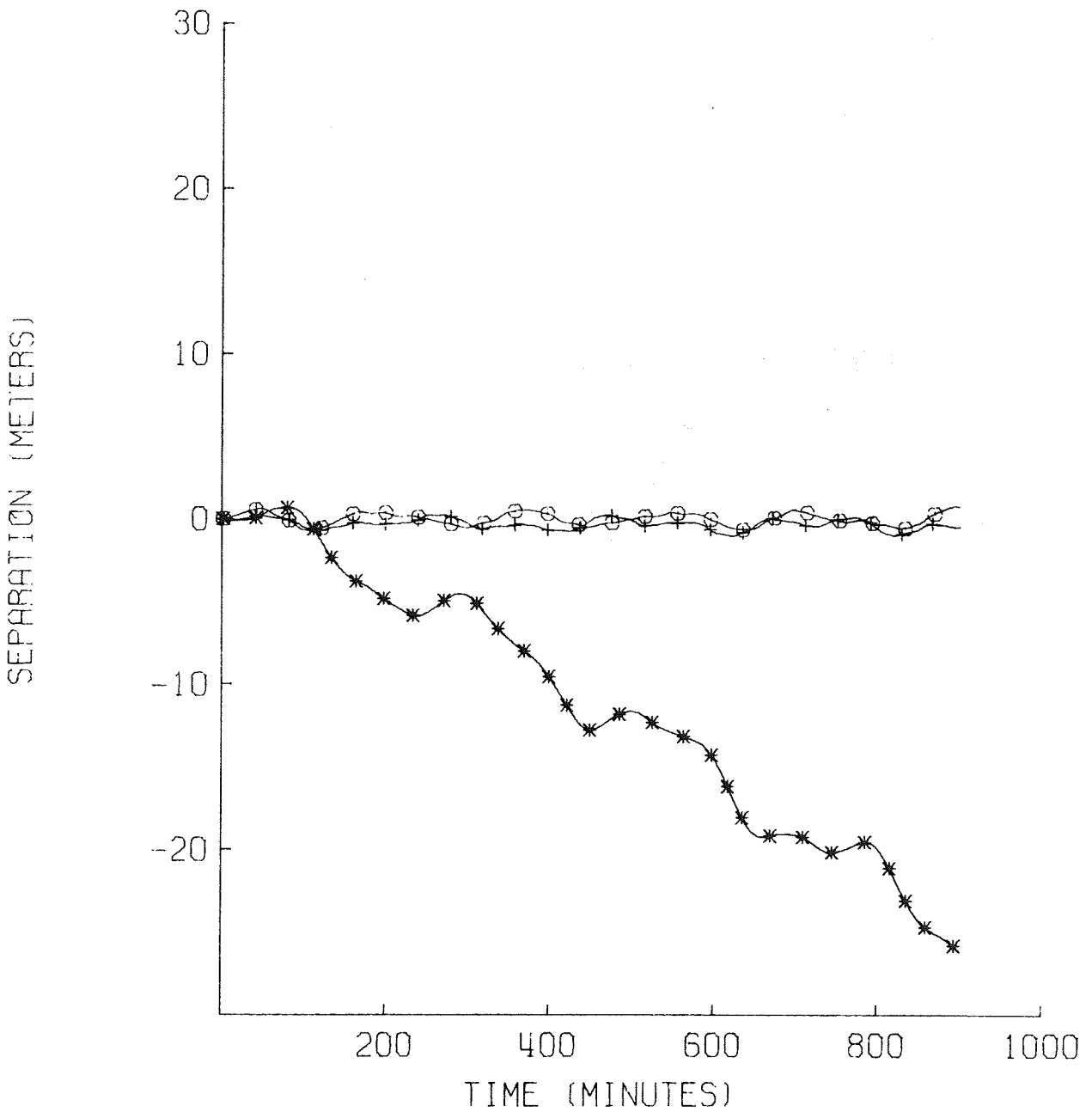
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14.6) = -.0500
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

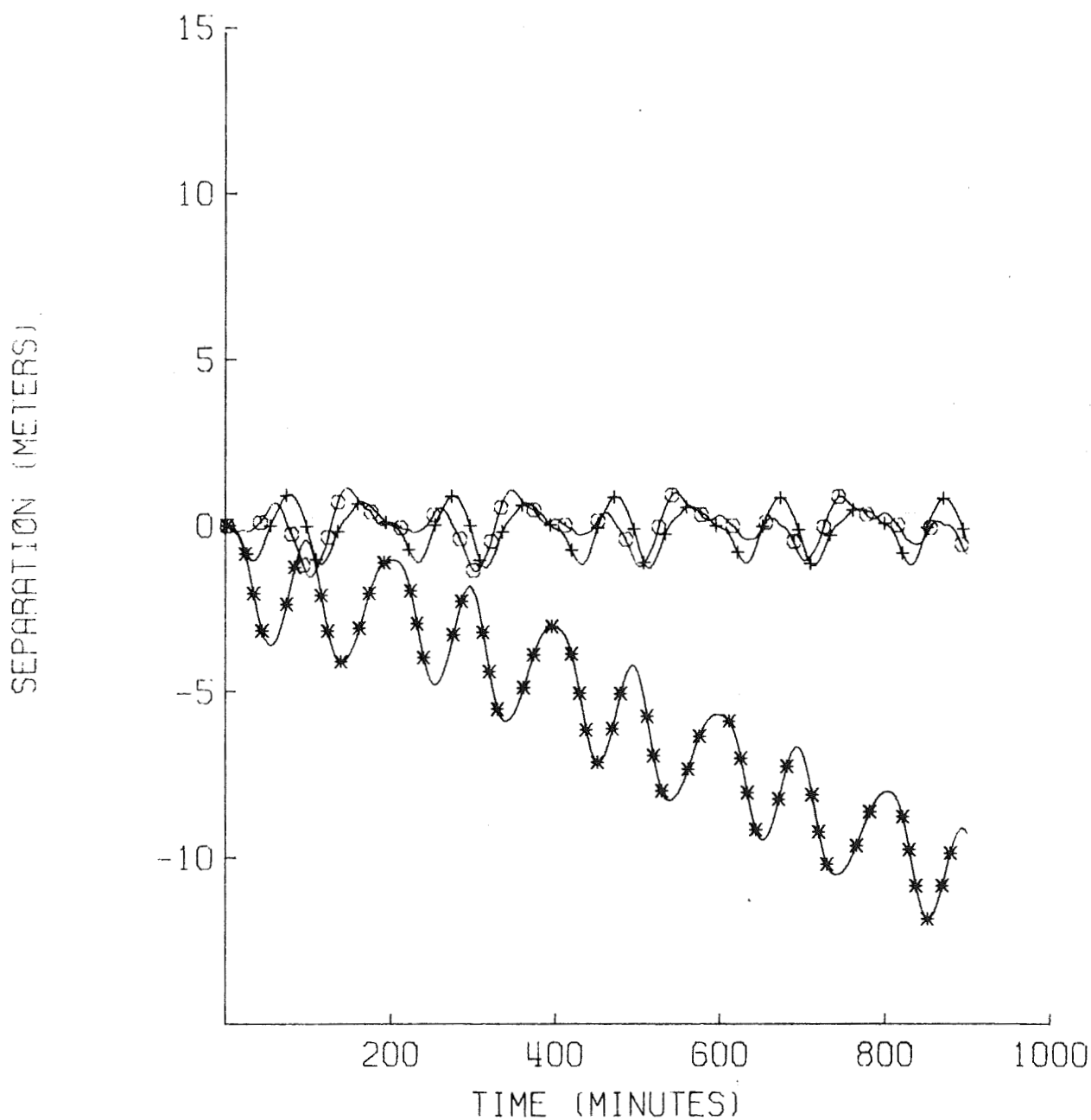
RUN FOR C(14.7) = .0759

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

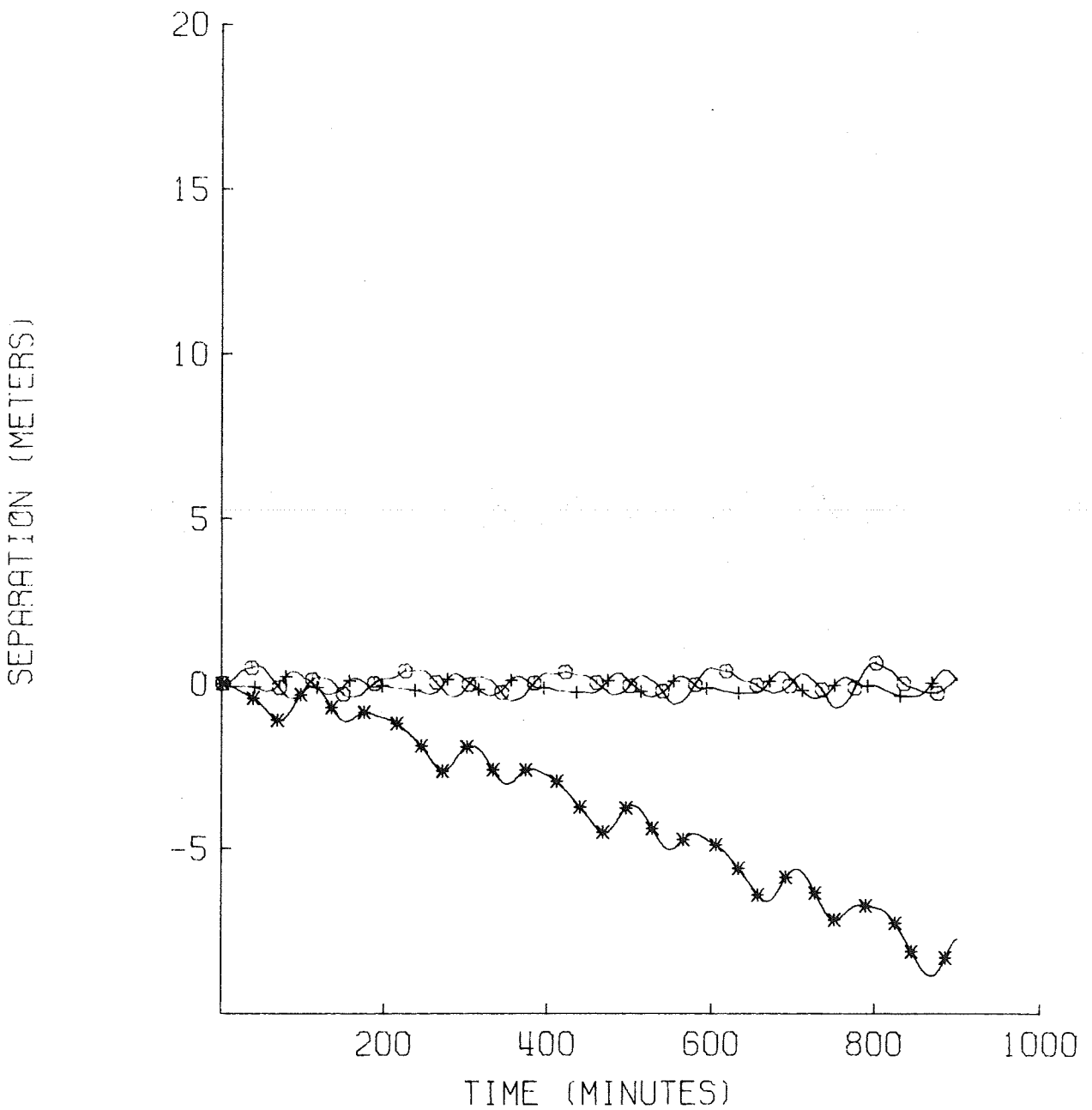
RUN FOR S(14 , 7) = .0366

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

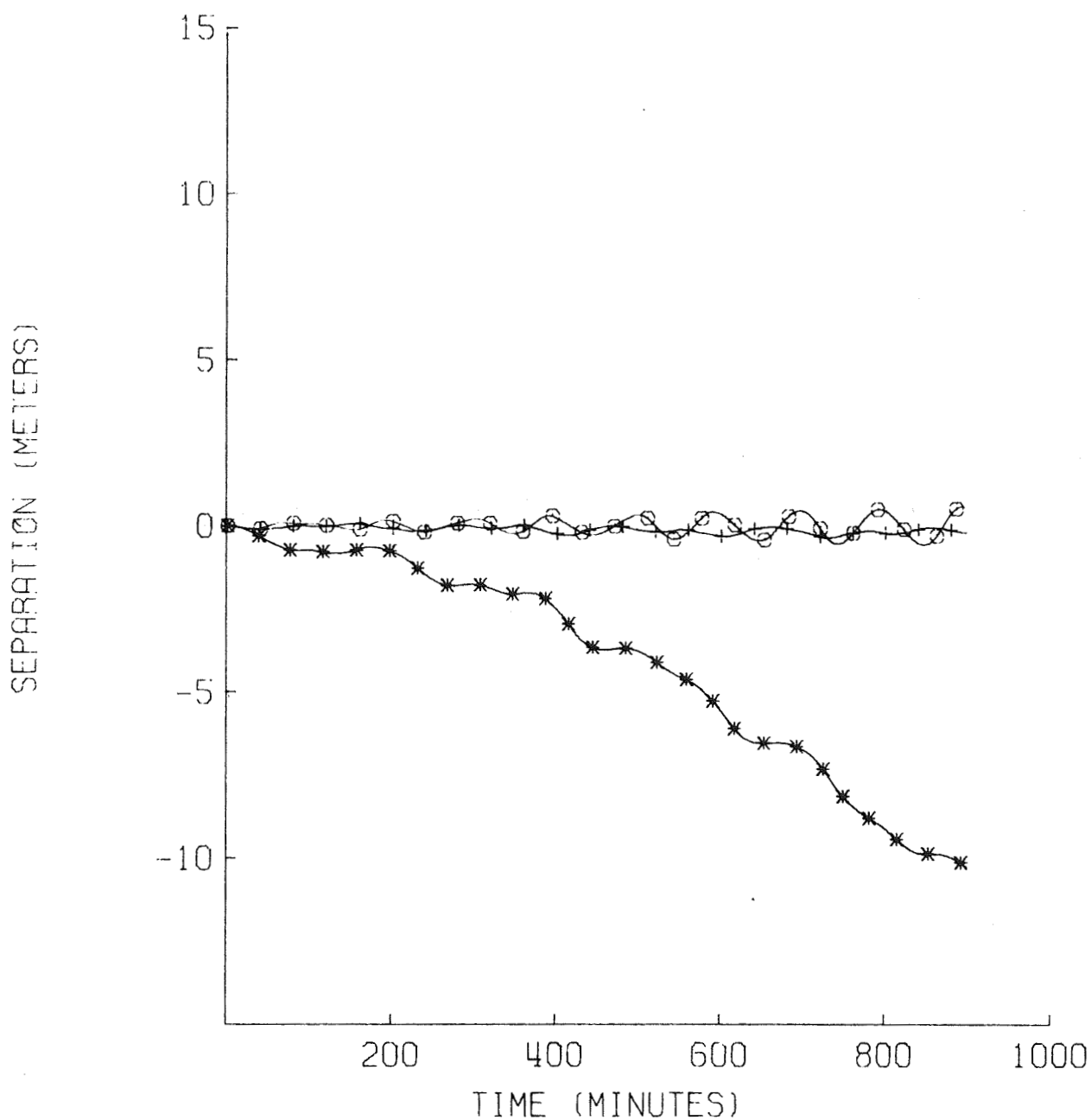
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14 , 8) = -.0074
 FACTOR USED IS 1.000000

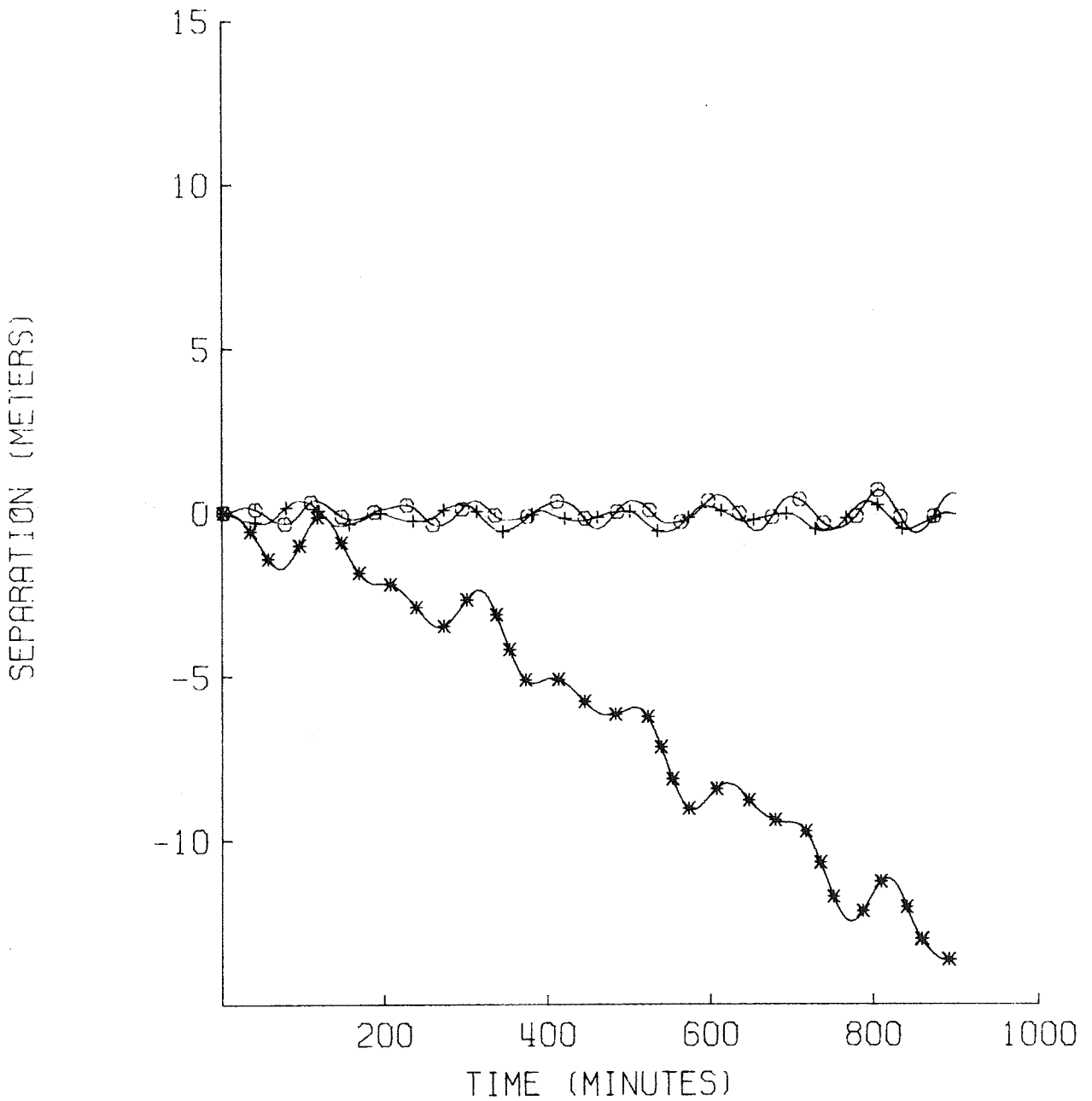
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14.8) = -.0155
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

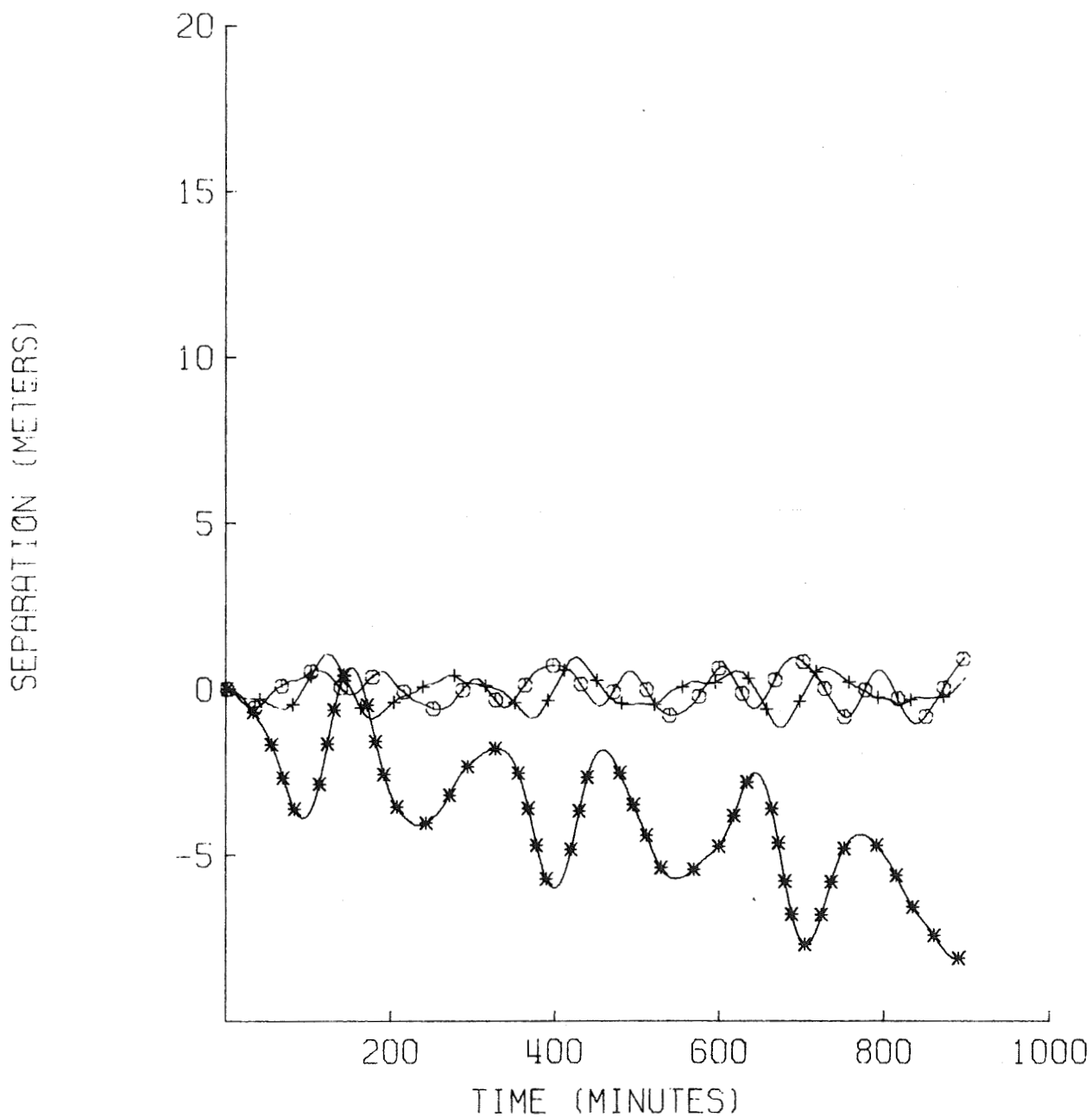
RUN FOR C(14.9) = .0351

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

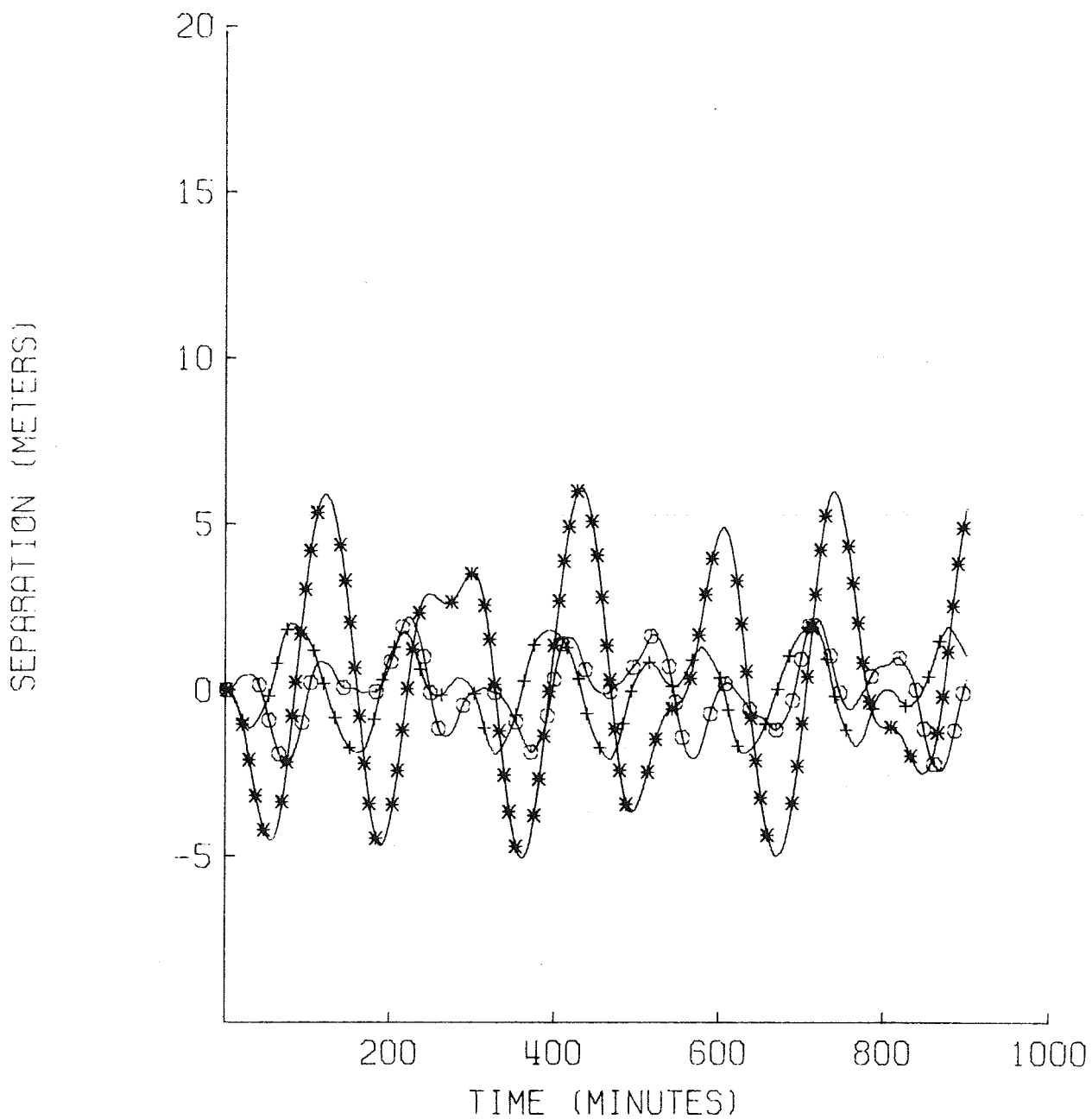
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(14.9) = .0849
FACTOR USED IS 1.000000

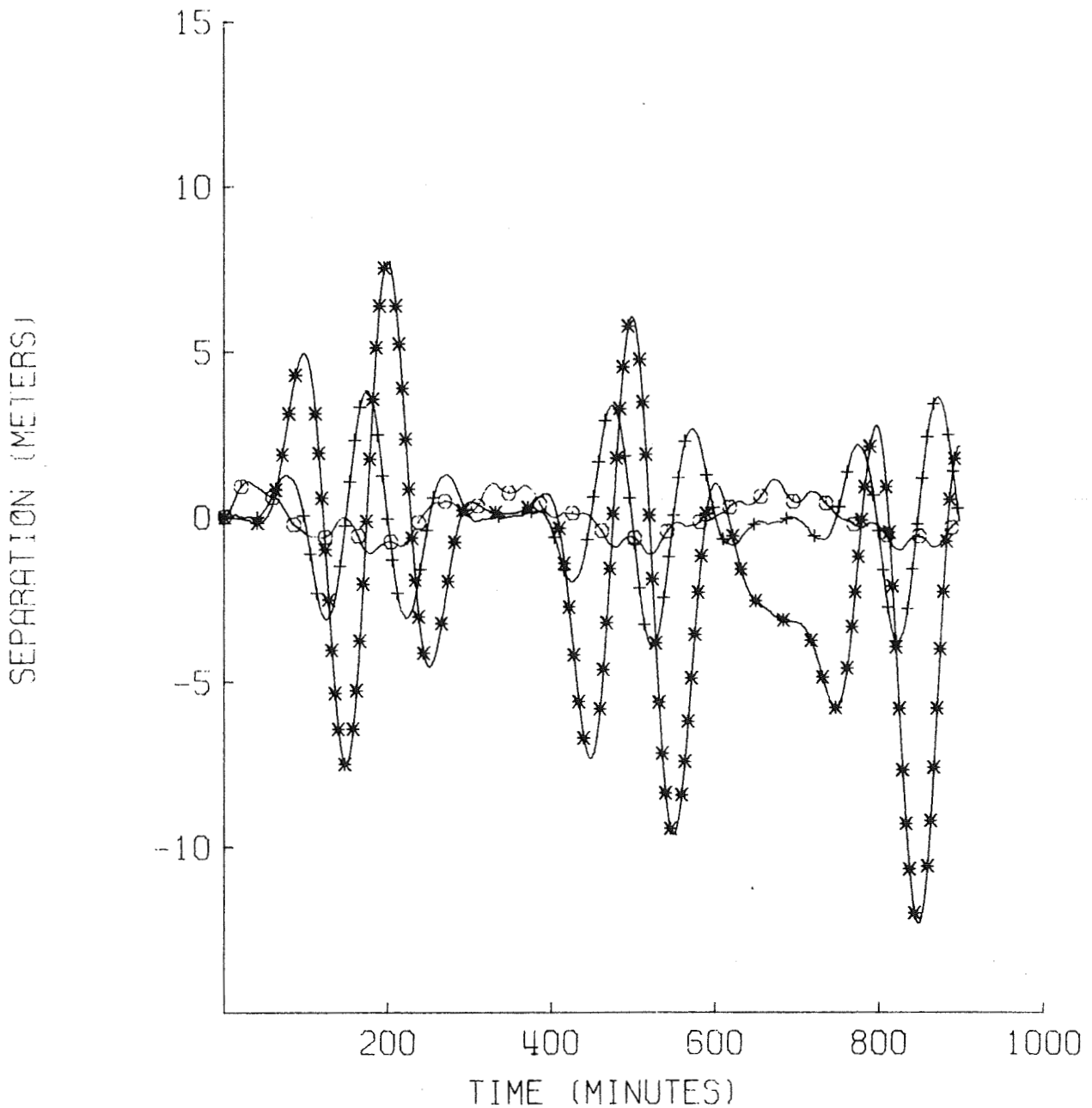
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(14,10) = .0748
FACTOR USED IS 1.000000

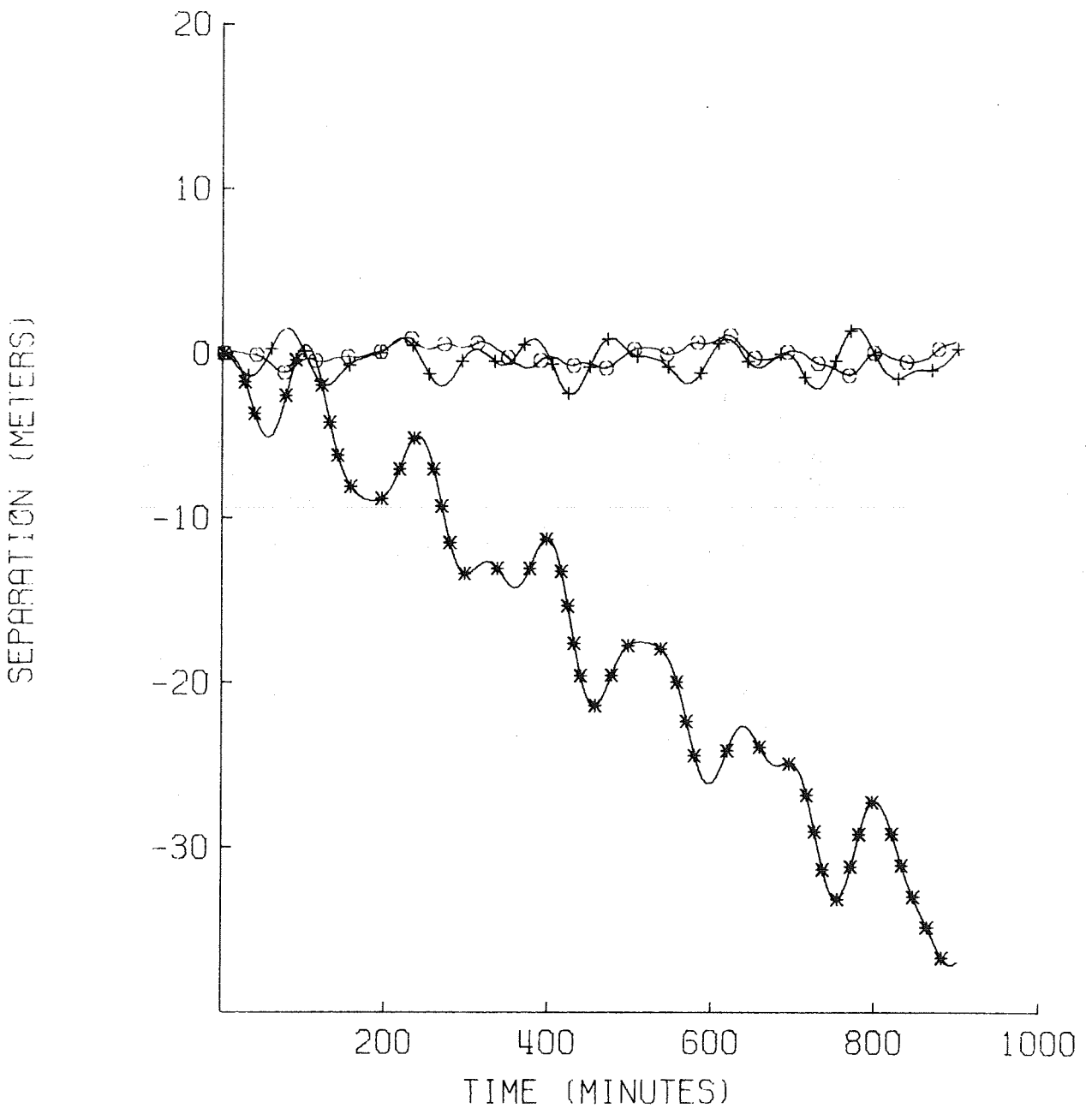
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14, 10) = -.0645
 FACTOR USED IS 1.000000

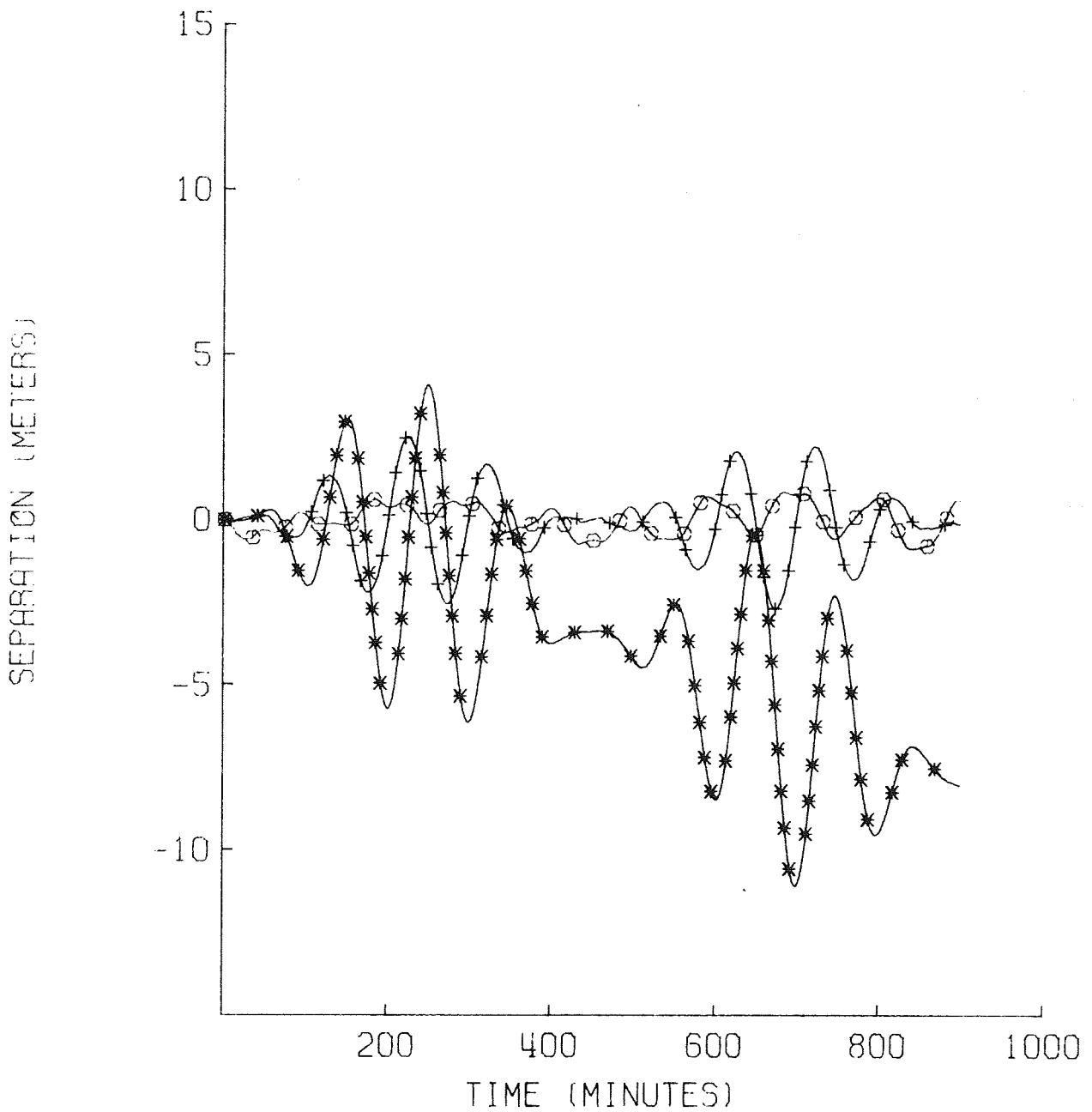
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7135.6535

RUN FOR C(14.11) = .0520
FACTOR USED IS 1.000000

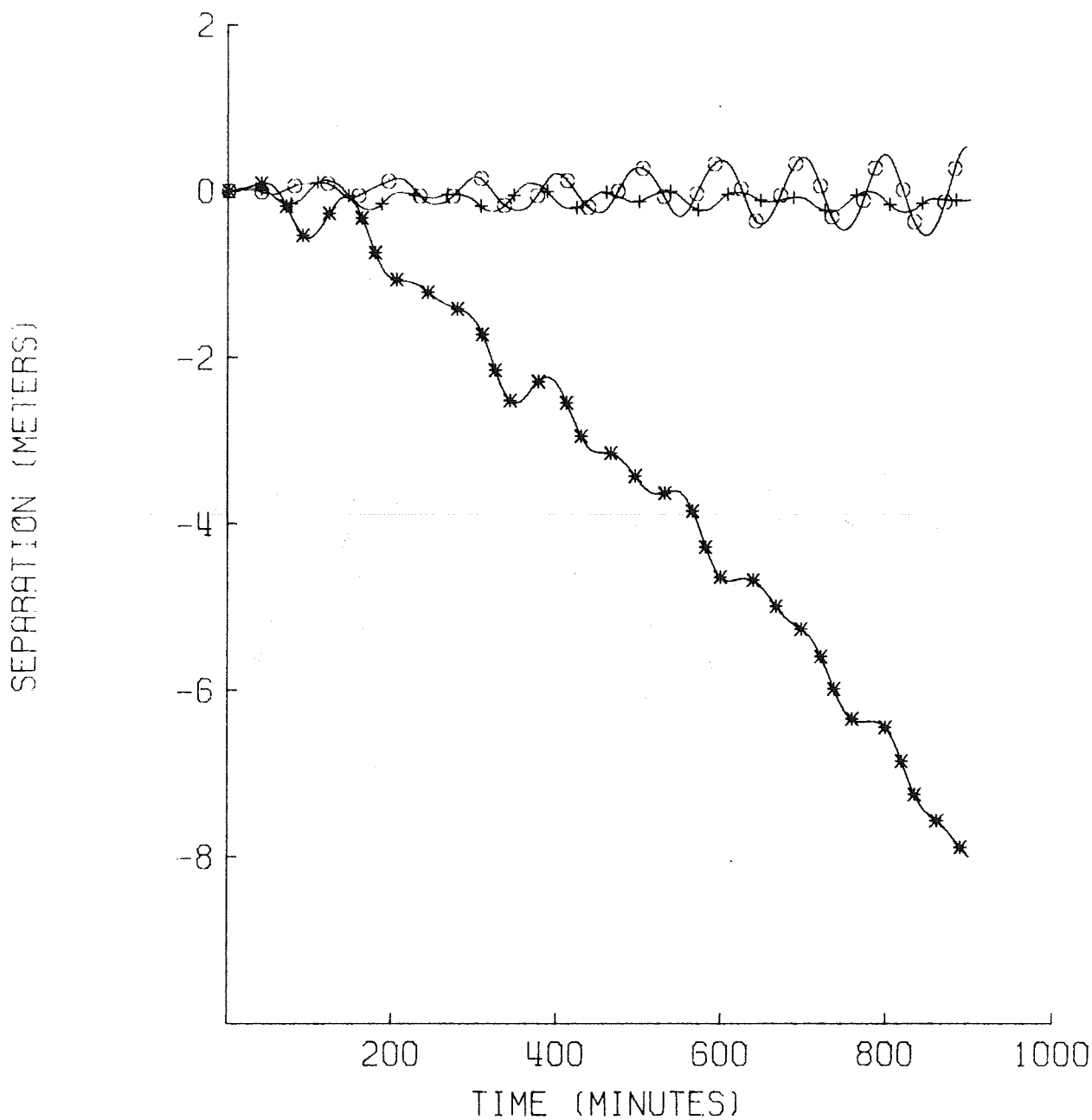
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14 , 11) = -.0058
 FACTOR USED IS 1.000000

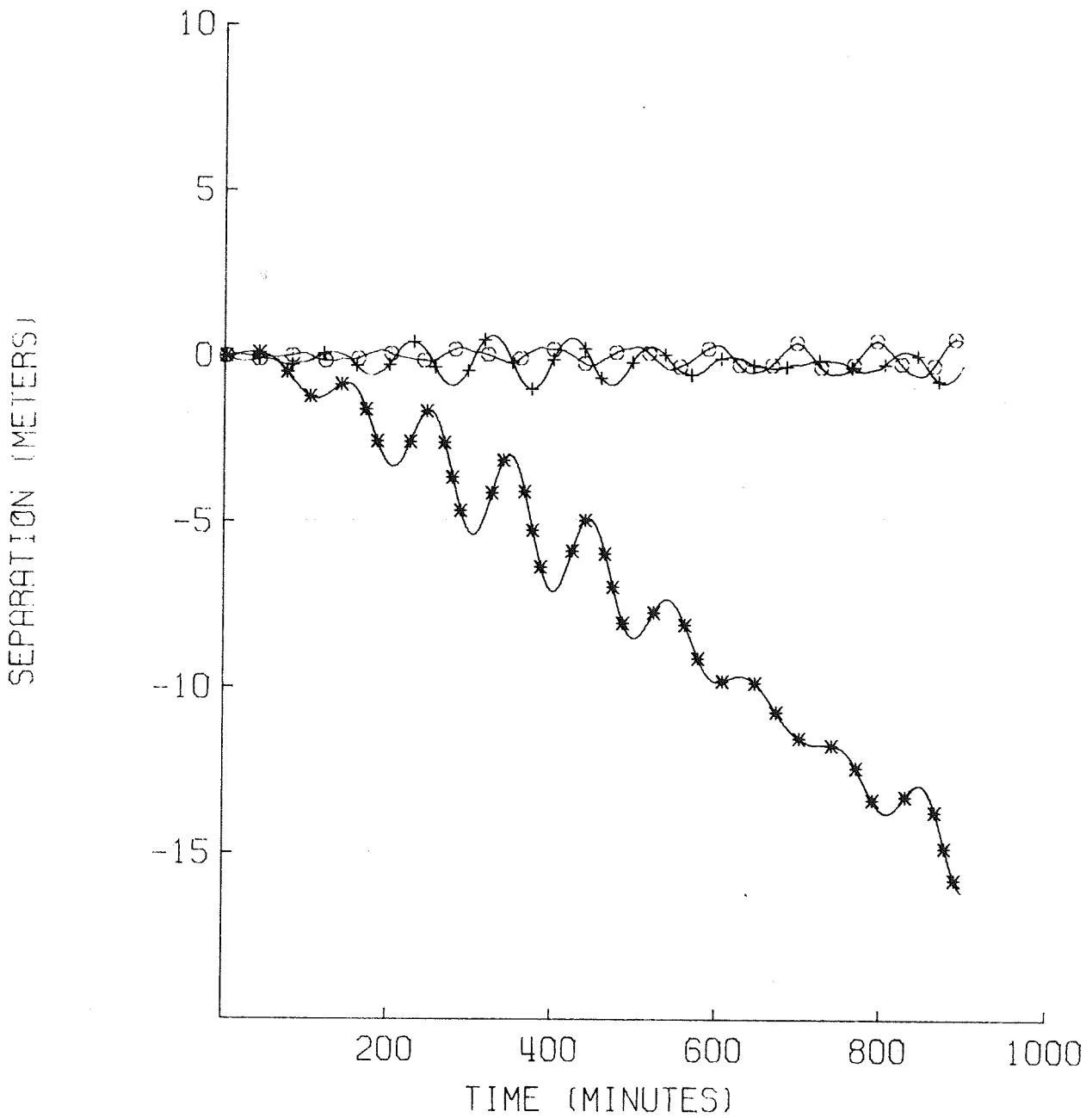
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14,12) = -.0195
 FACTOR USED IS 1.000000

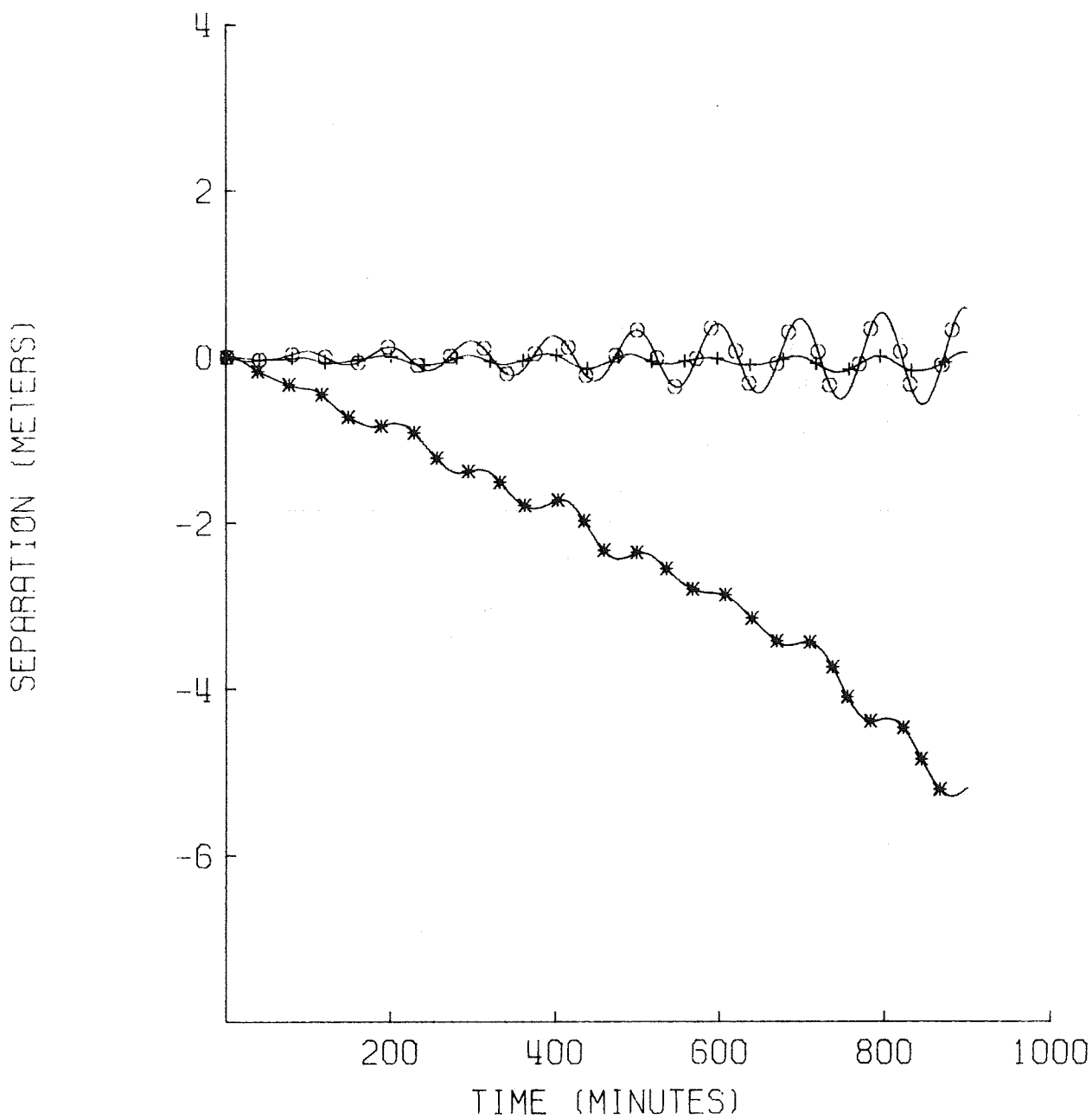
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14,12) = -.0005
FACTOR USED IS 1.000000

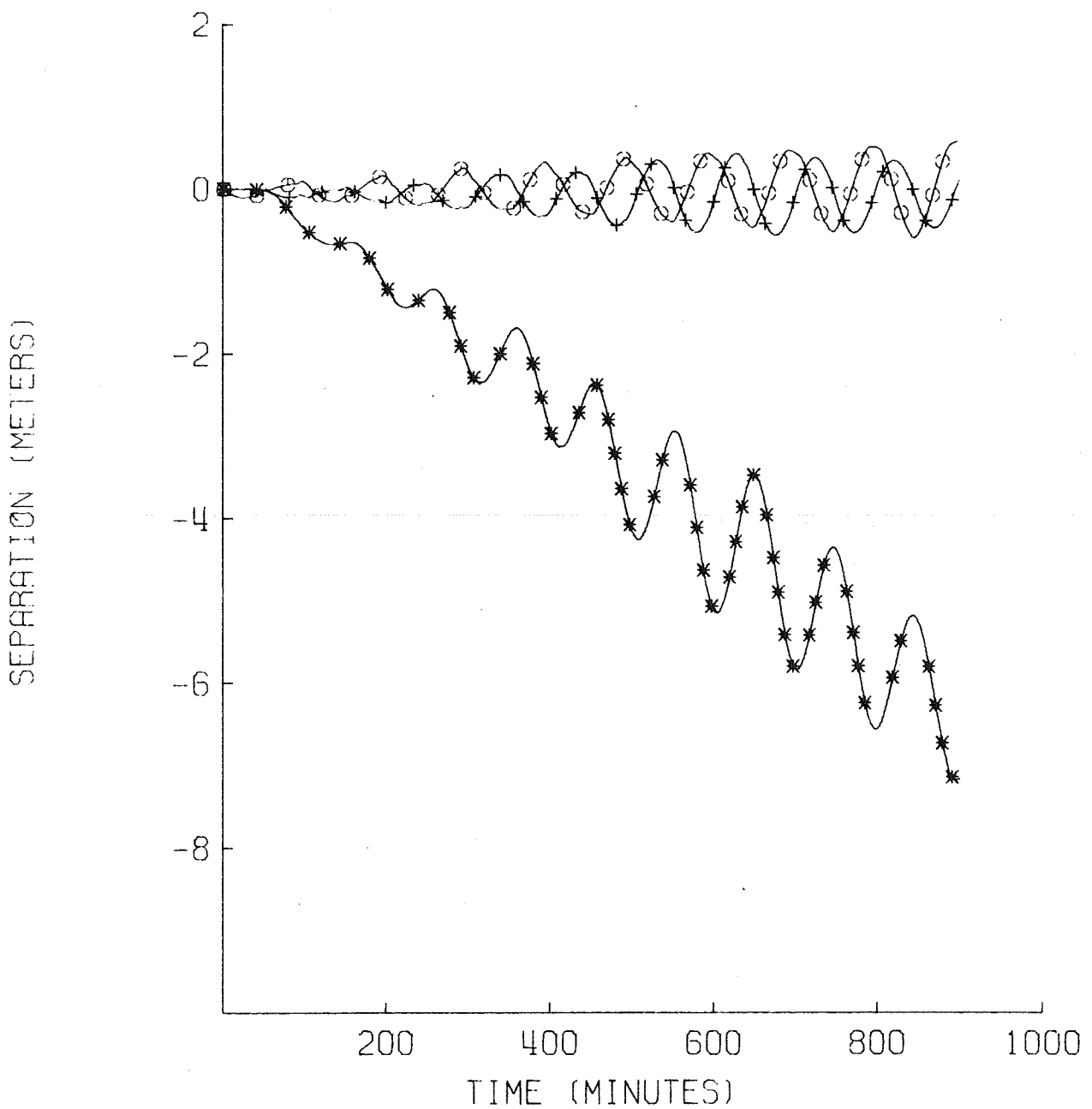
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14, 13) = .0185
 FACTOR USED IS 1.000000

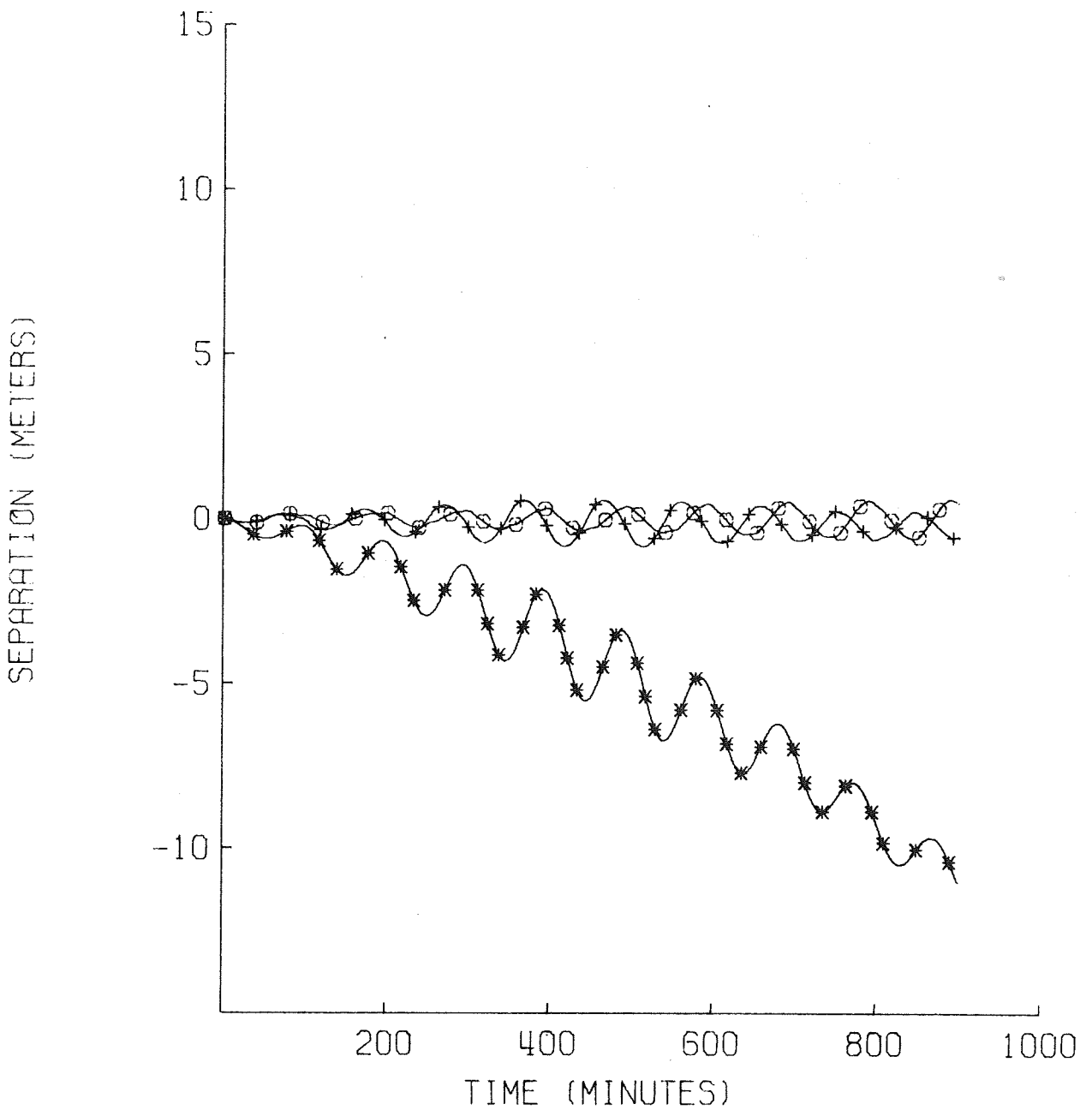
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.0000 .00500000 7136.6535

RUN FOR S(14,13) = .0274
FACTOR USED IS 1.000000

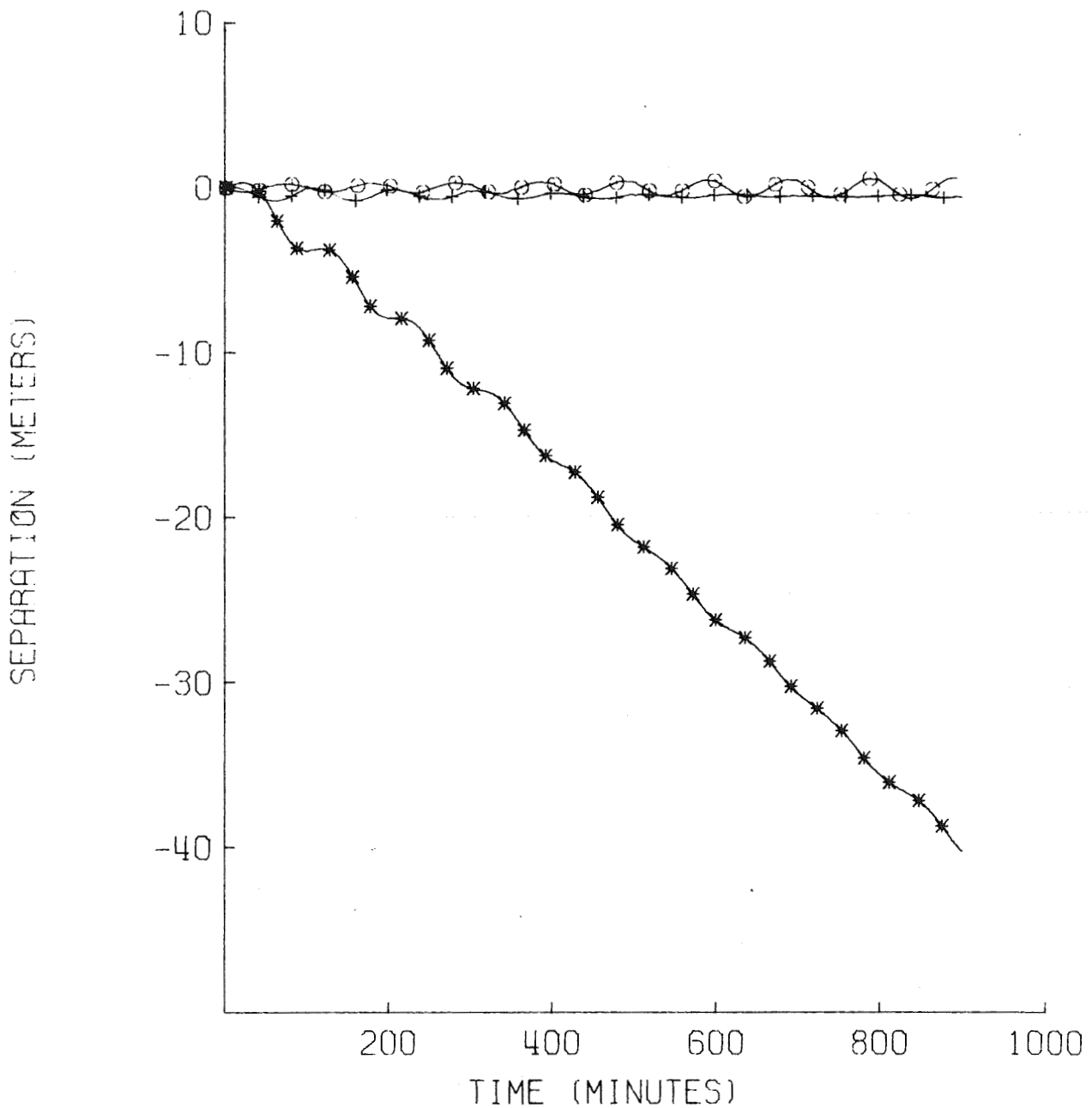
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(14,14) = -.0511
FACTOR USED IS 1.000000

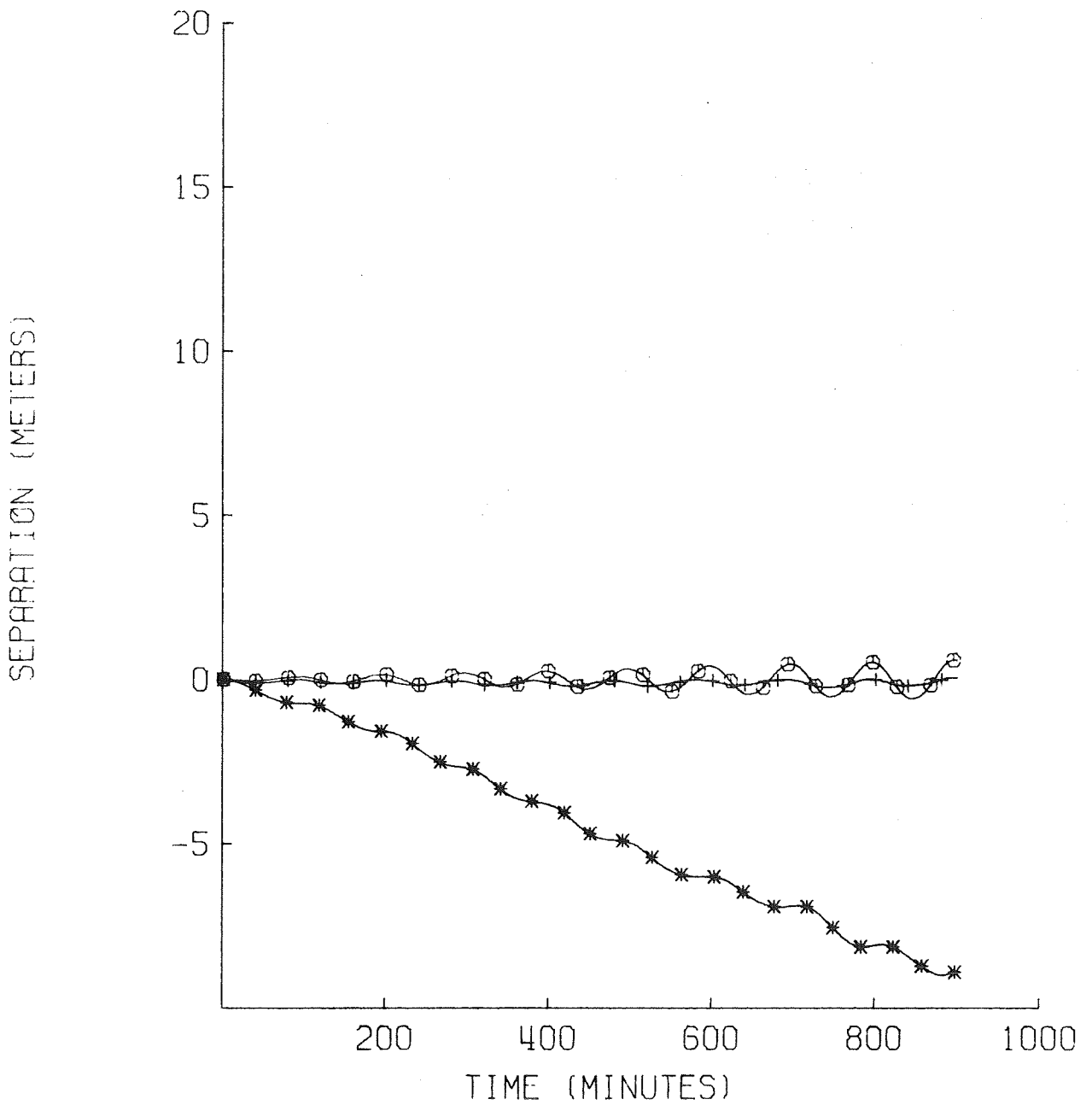
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(14,14) = -.0046
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



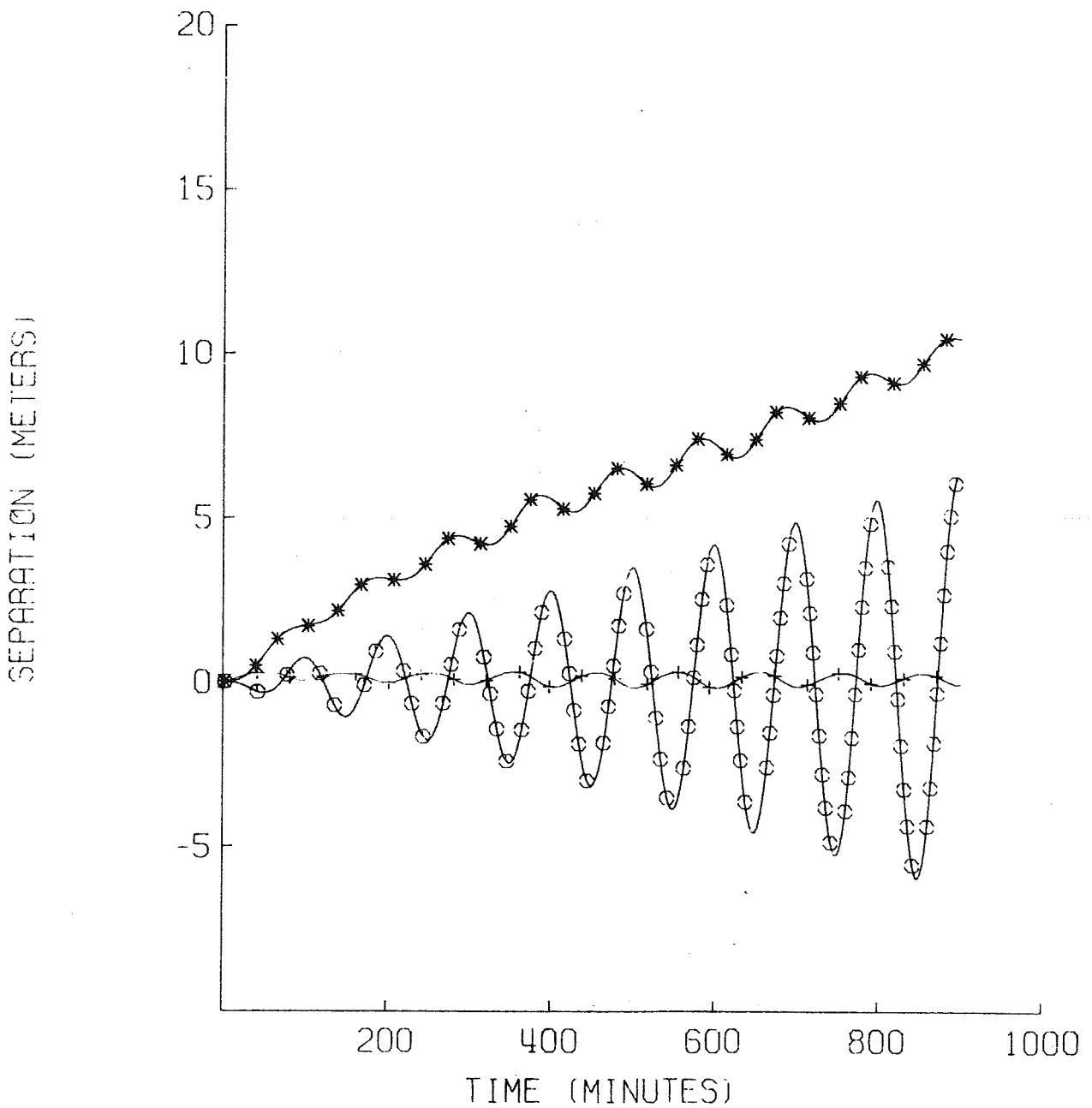
SECTION II

GRAPHICAL OUTPUT FOR HARMONIC VALUES
EQUAL TO PUBLISHED VALUES FOR
STANDARD ERROR OF HARMONICS

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(2 ,0) = -484.1803
 FACTOR USED IS 1.000024

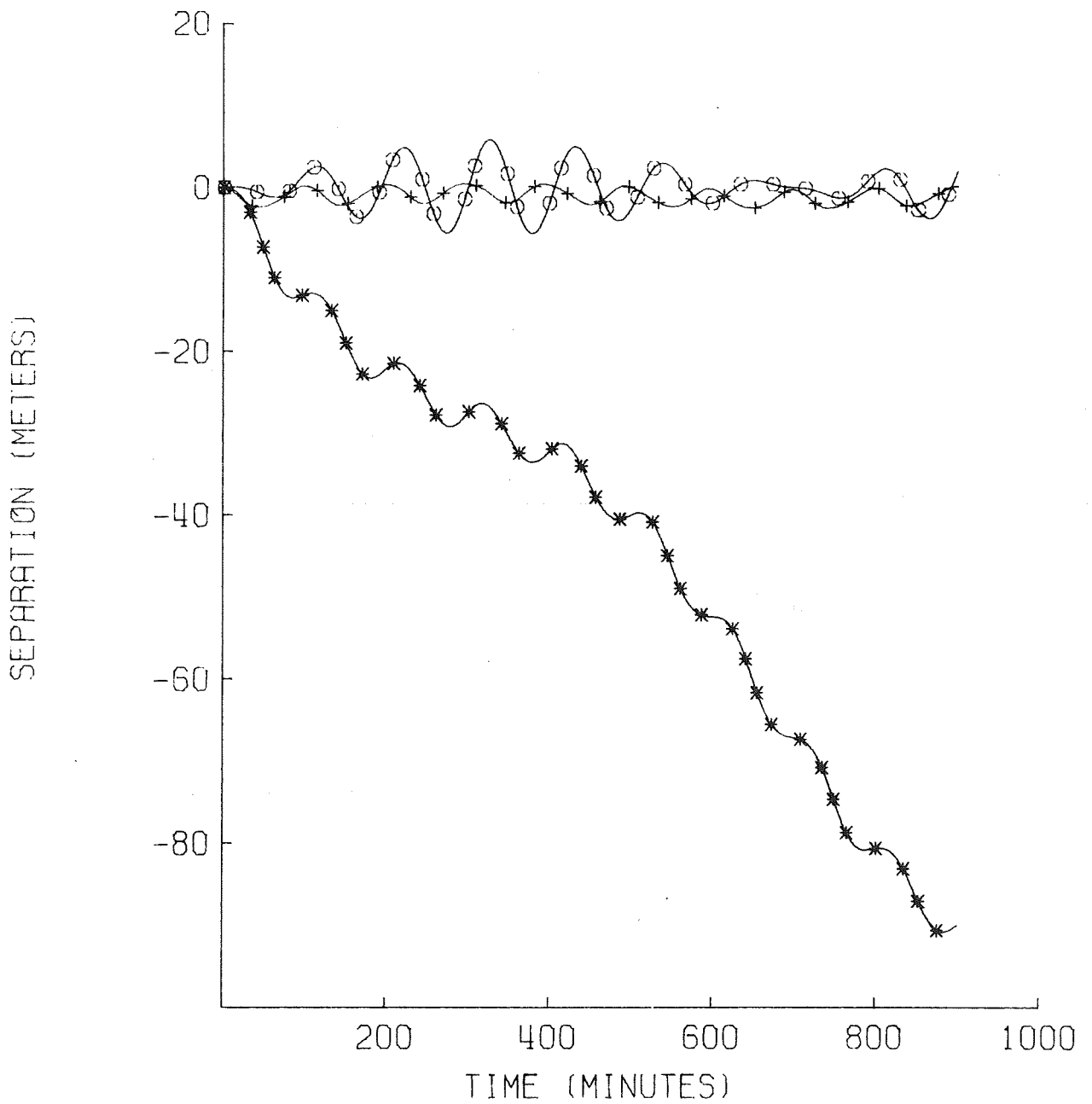
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(2 ,2) = 2.3241
FACTOR USED IS .023235

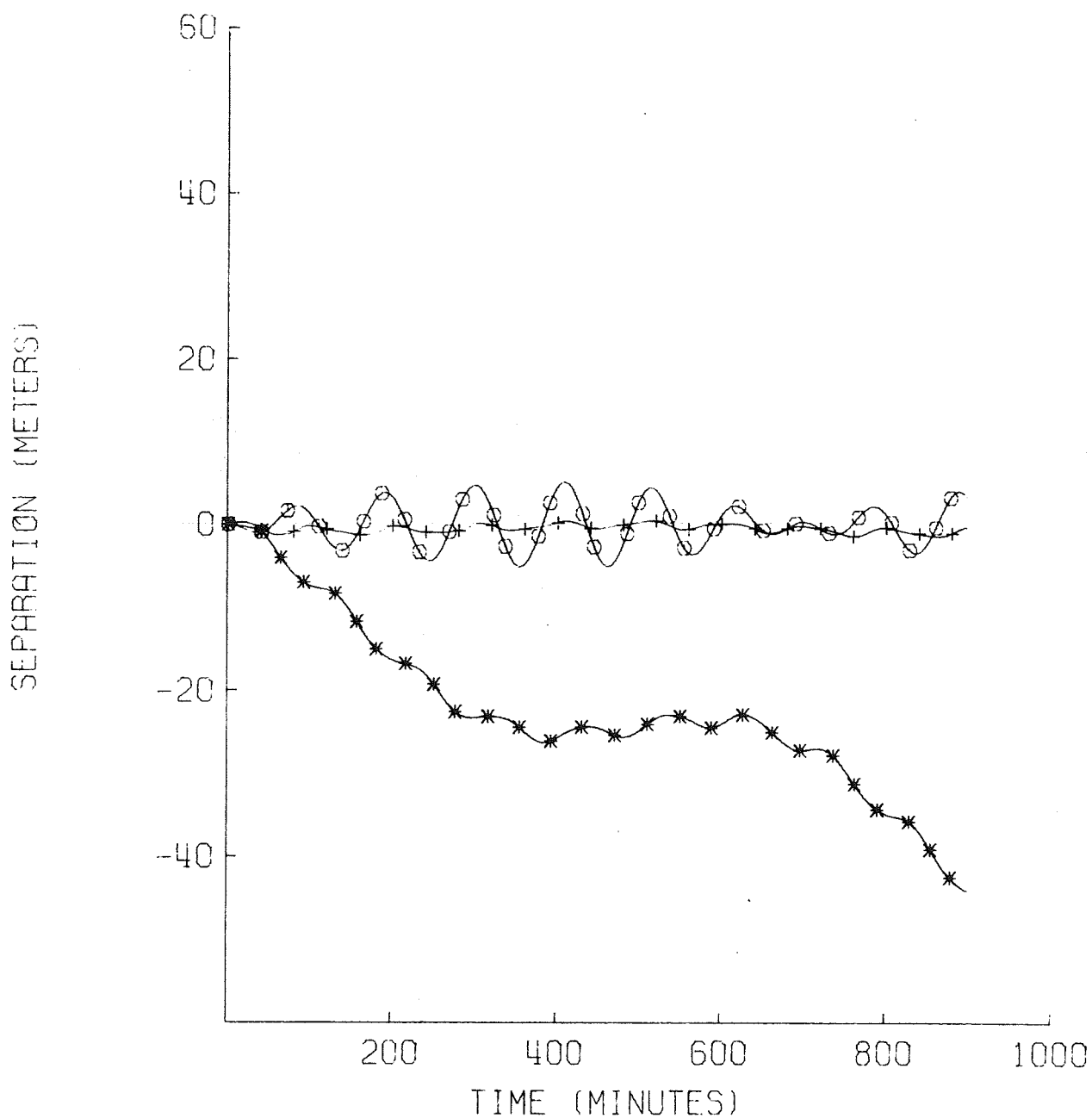
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(2 , 2) = -1.3106
FACTOR USED IS .041203

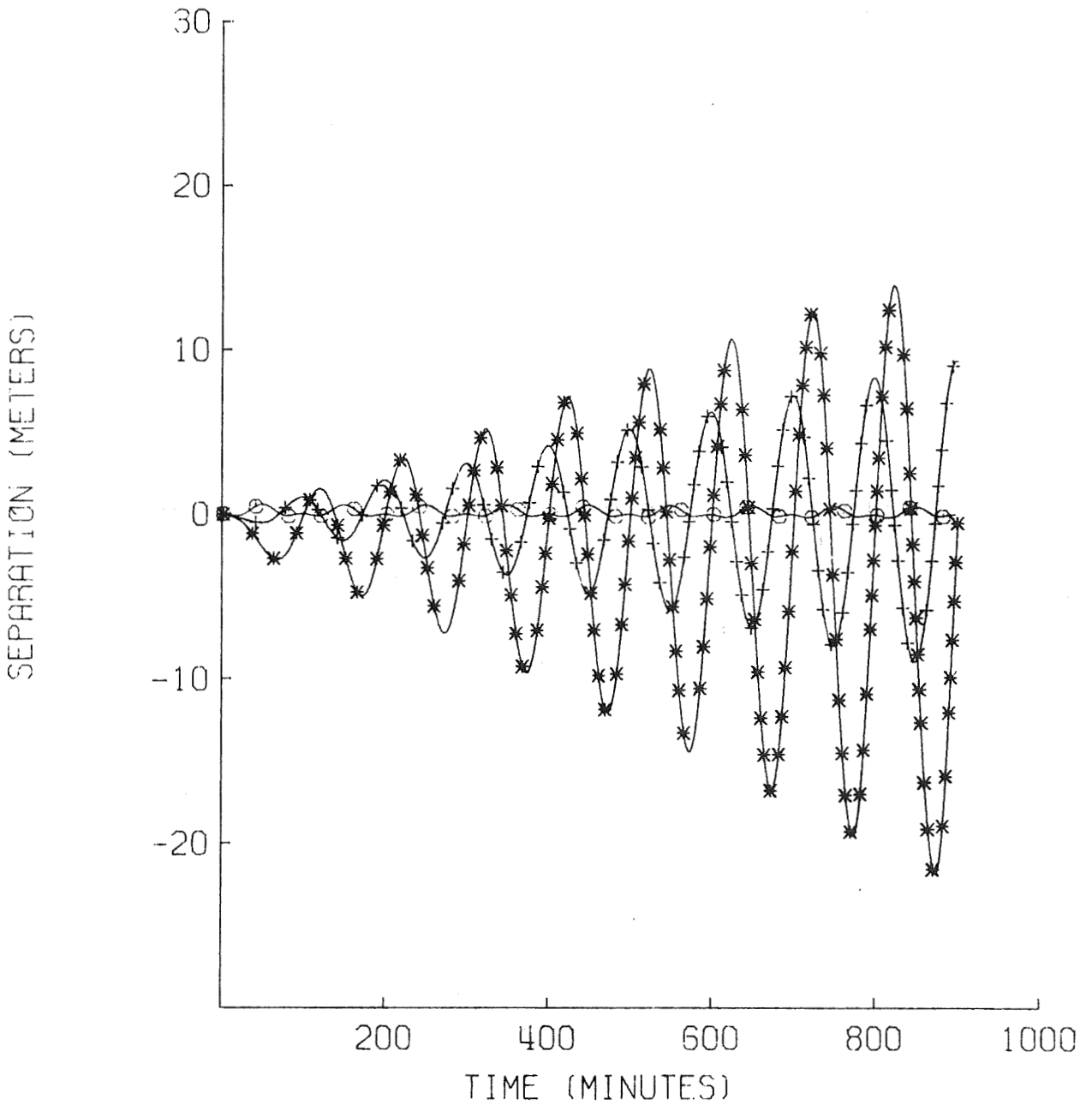
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(3 , 0) = .9025
 FACTOR USED IS 1.034238

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

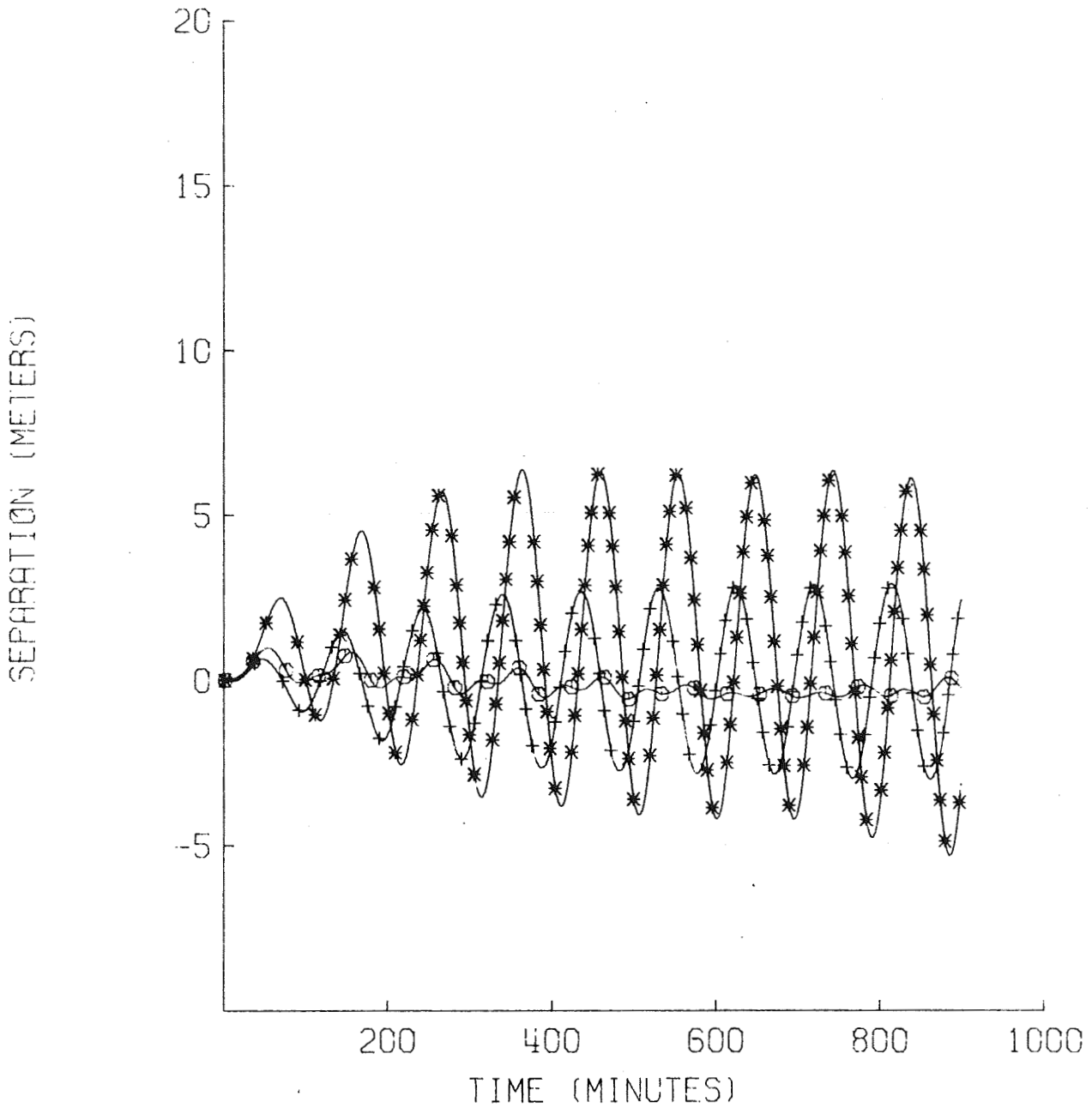
RUN FOR C(3 .1) = 1.7842

FACTOR USED IS .027295

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

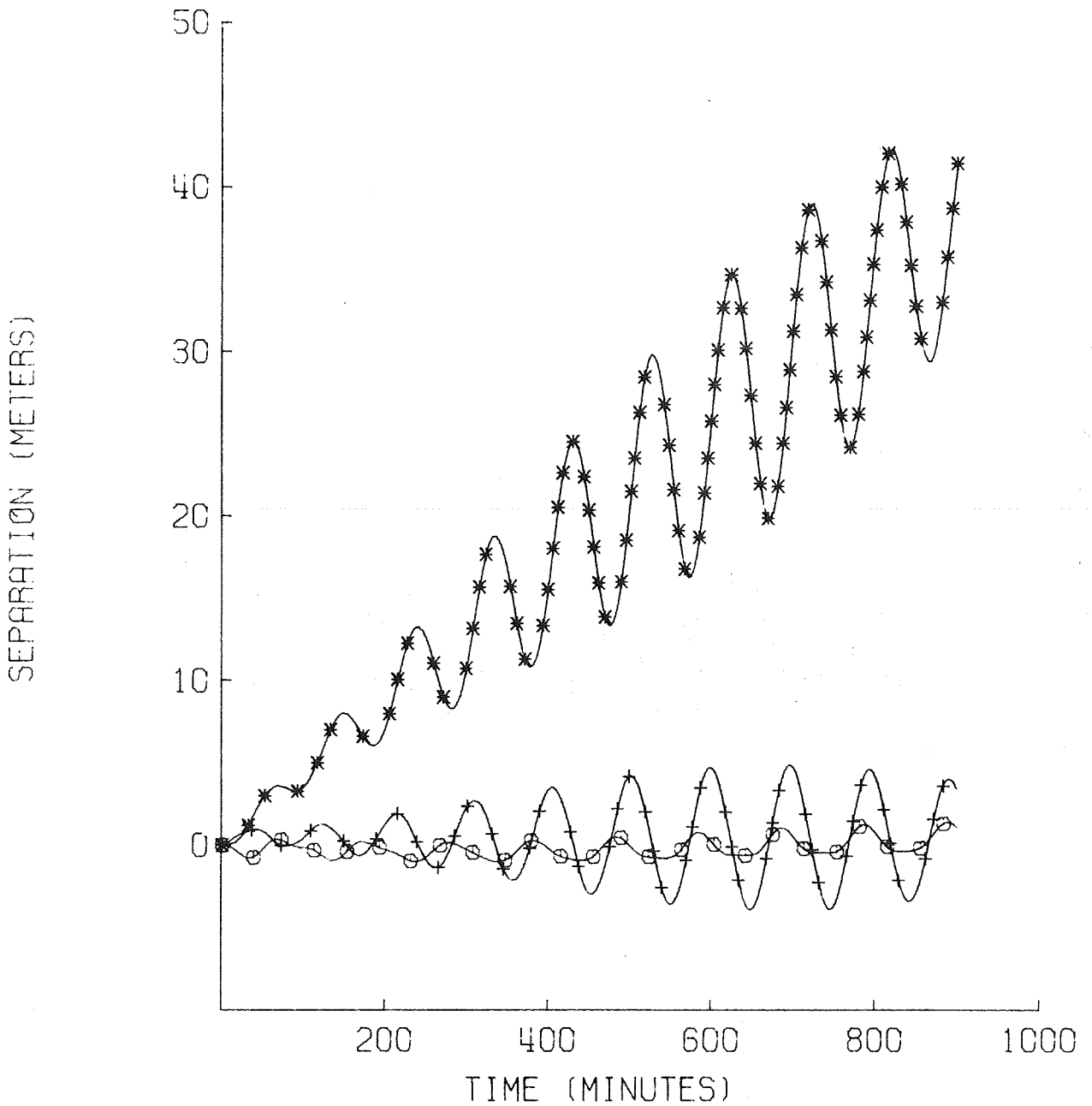
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR S(3 , 1) = .2601
 FACTOR USED IS .199923

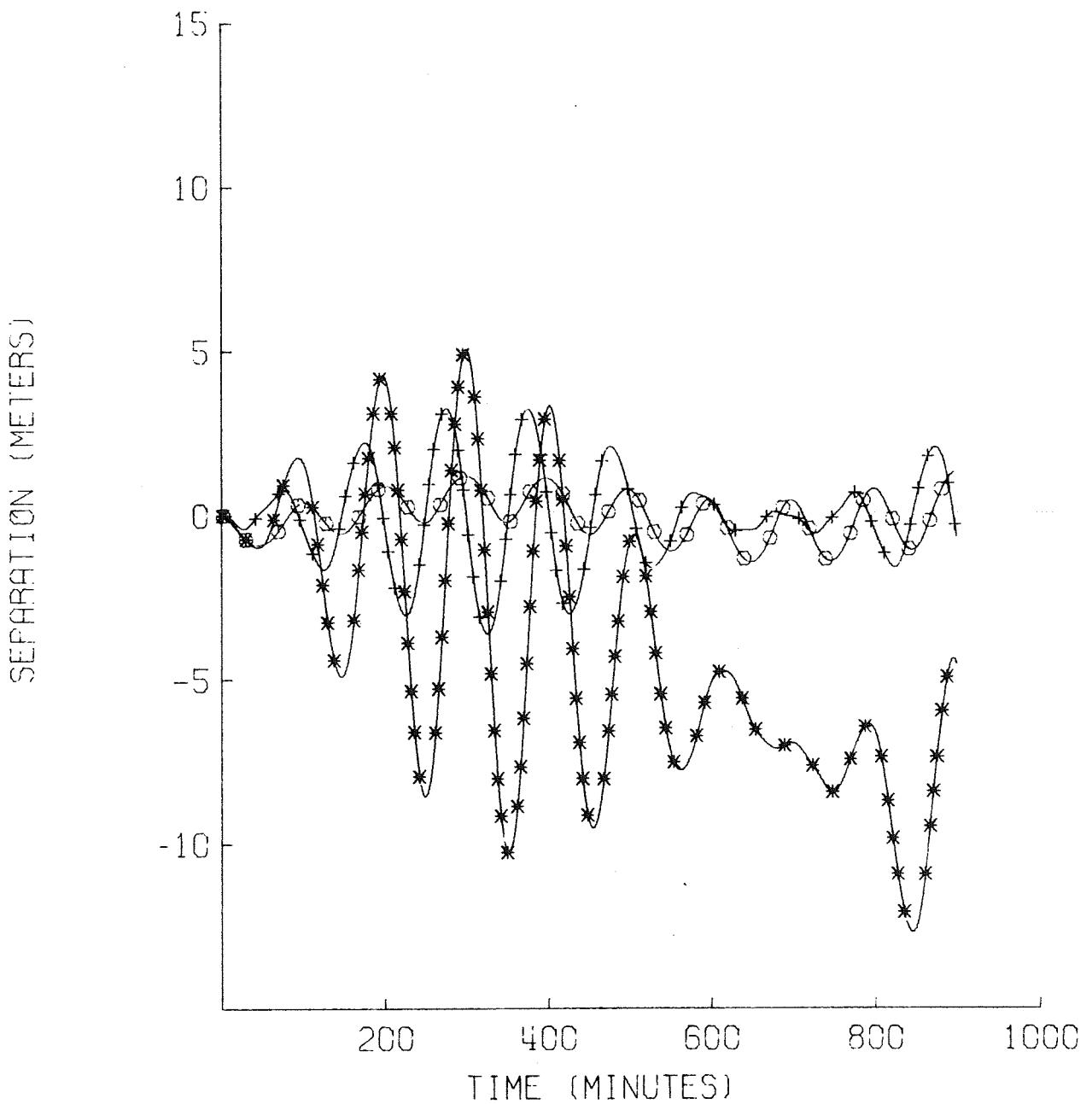
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(3 , 2) = .7224
FACTOR USED IS .066445

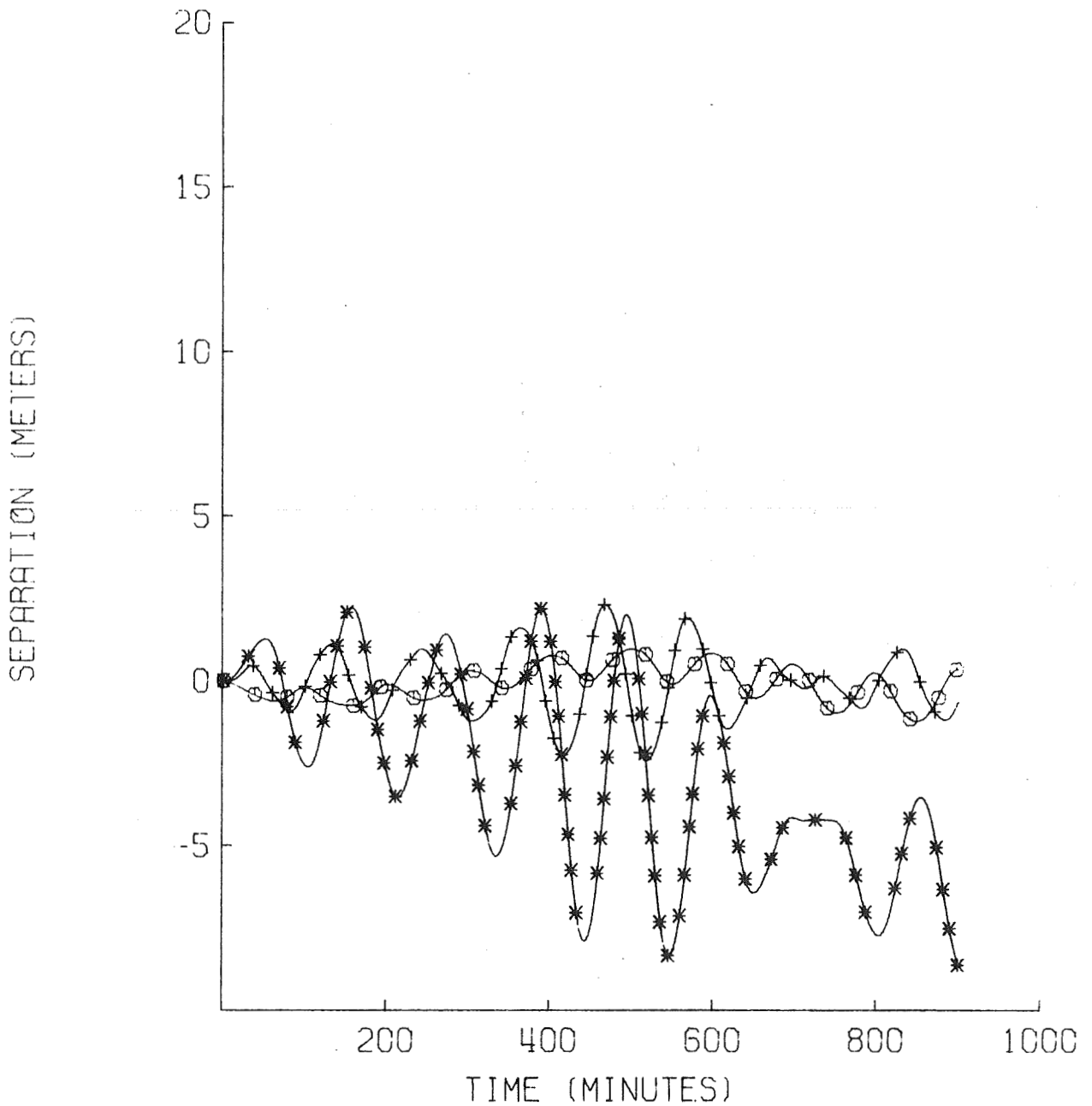
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊖) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(3 , 2) = -.5755
FACTOR USED IS .078193

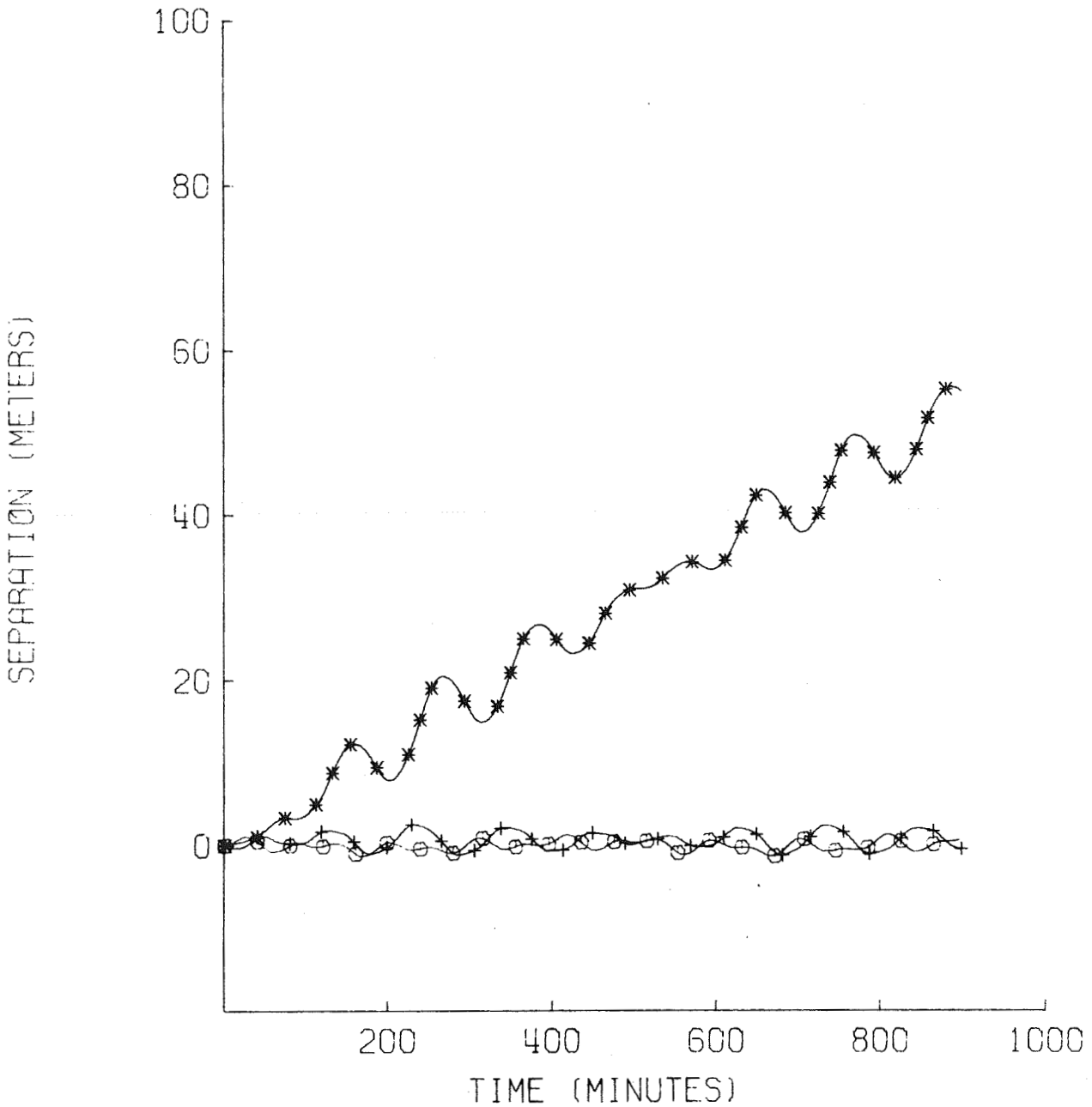
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR C(3 ,3) = .7240
FACTOR USED IS .088122

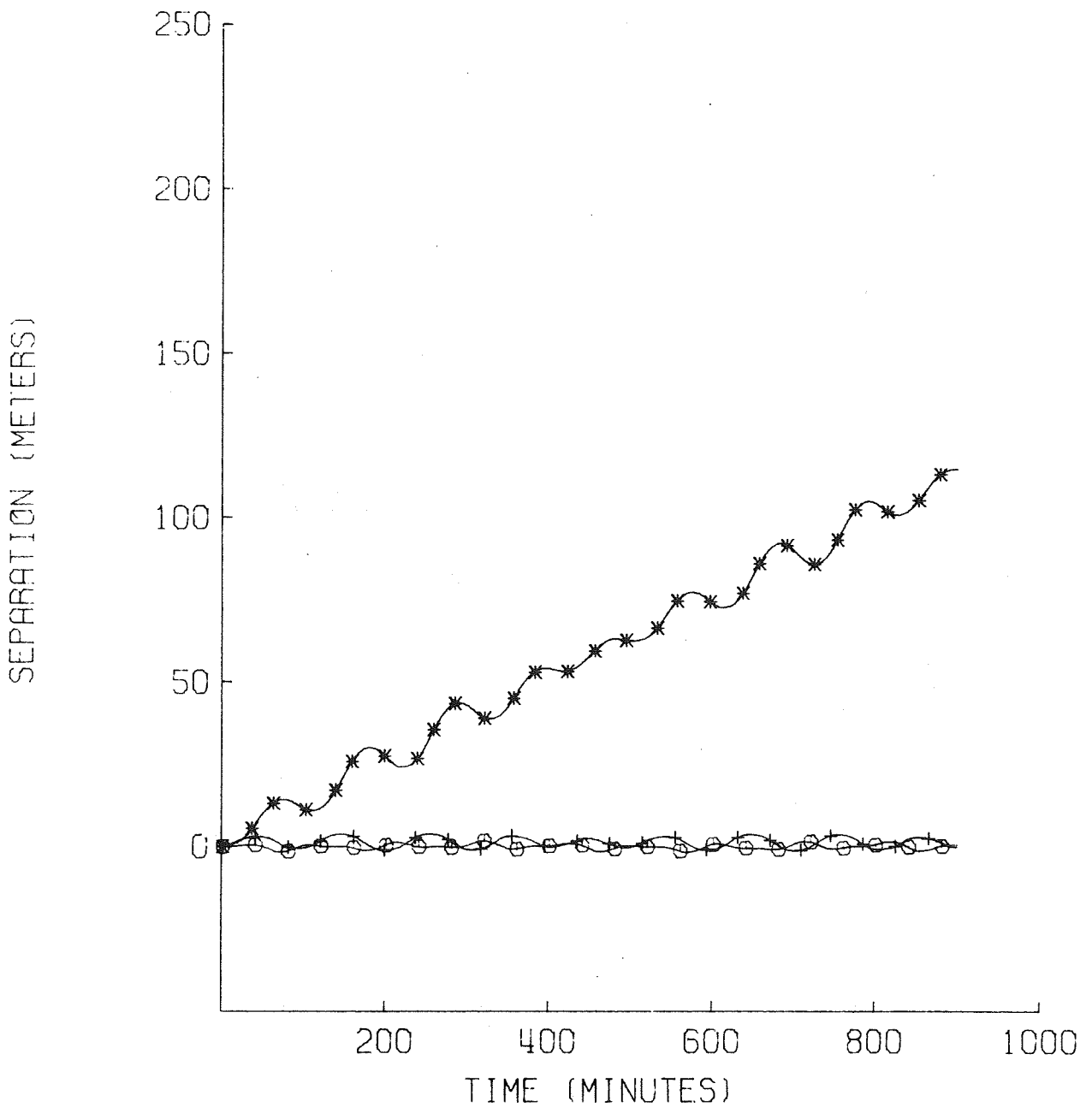
(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(3 , 3) = 1.3860
 FACTOR USED IS .048341

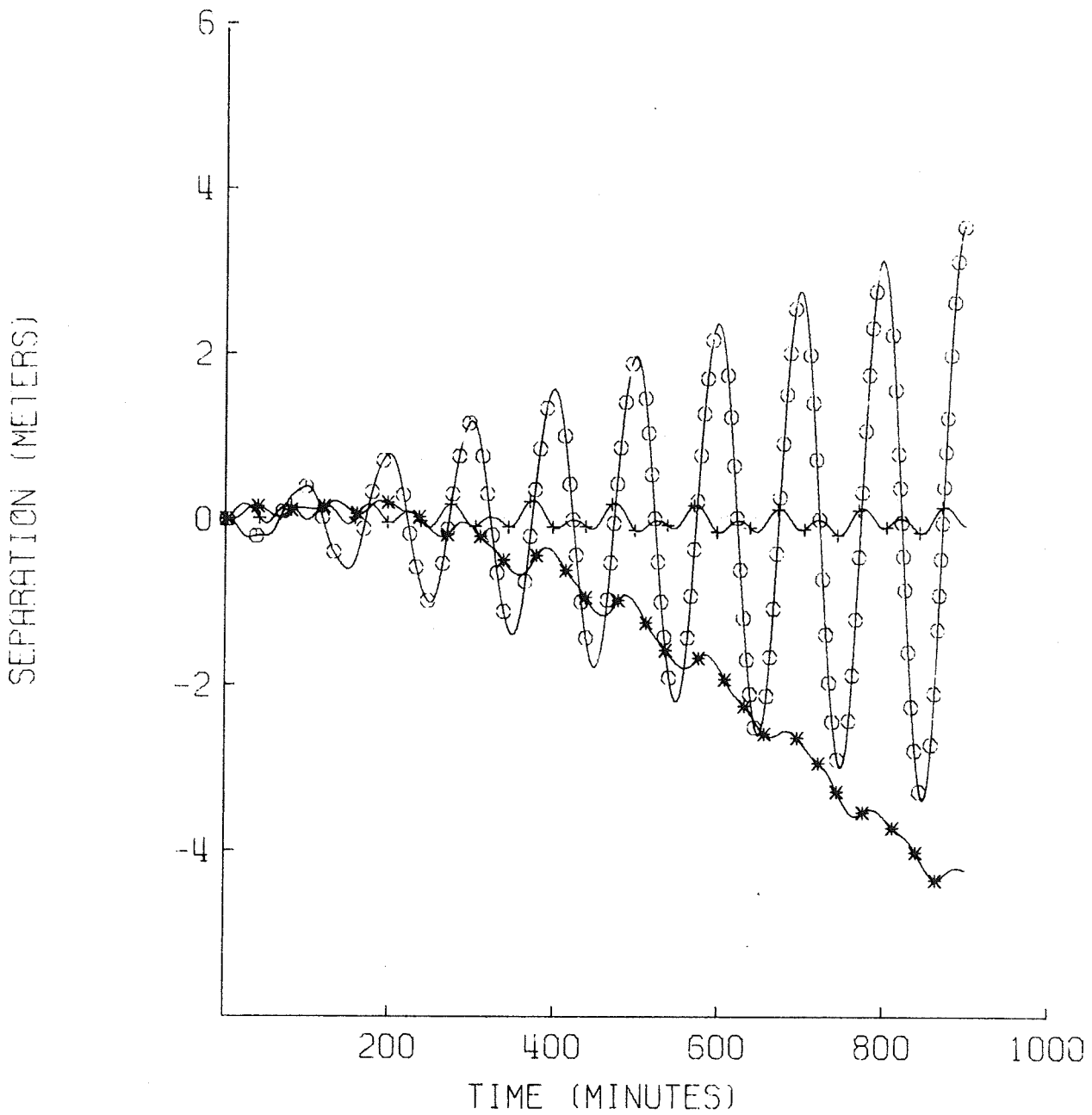
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 0) = .5608
 FACTOR USED IS 1.034415

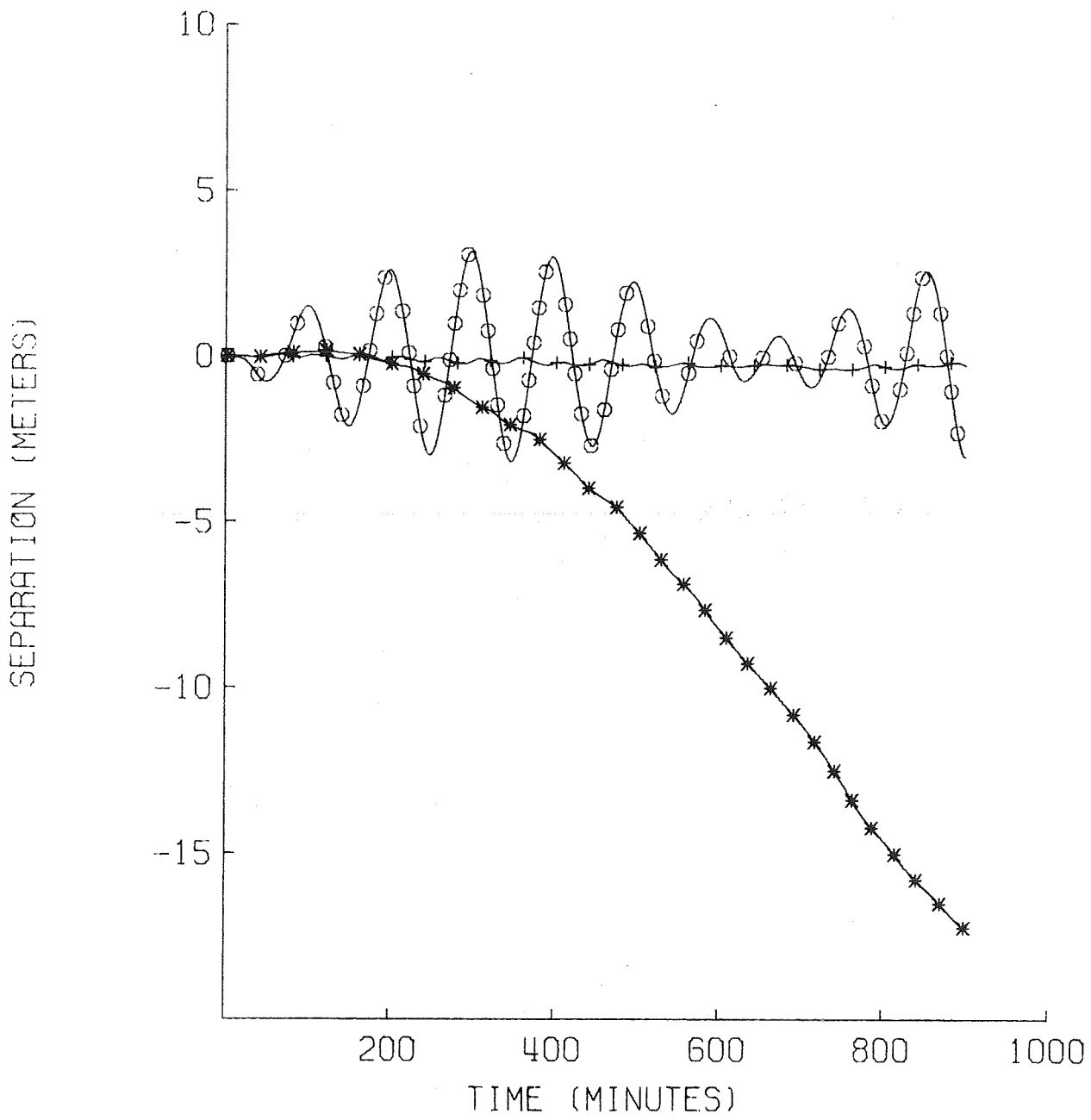
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 1) = -.5289
 FACTOR USED IS .057289

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

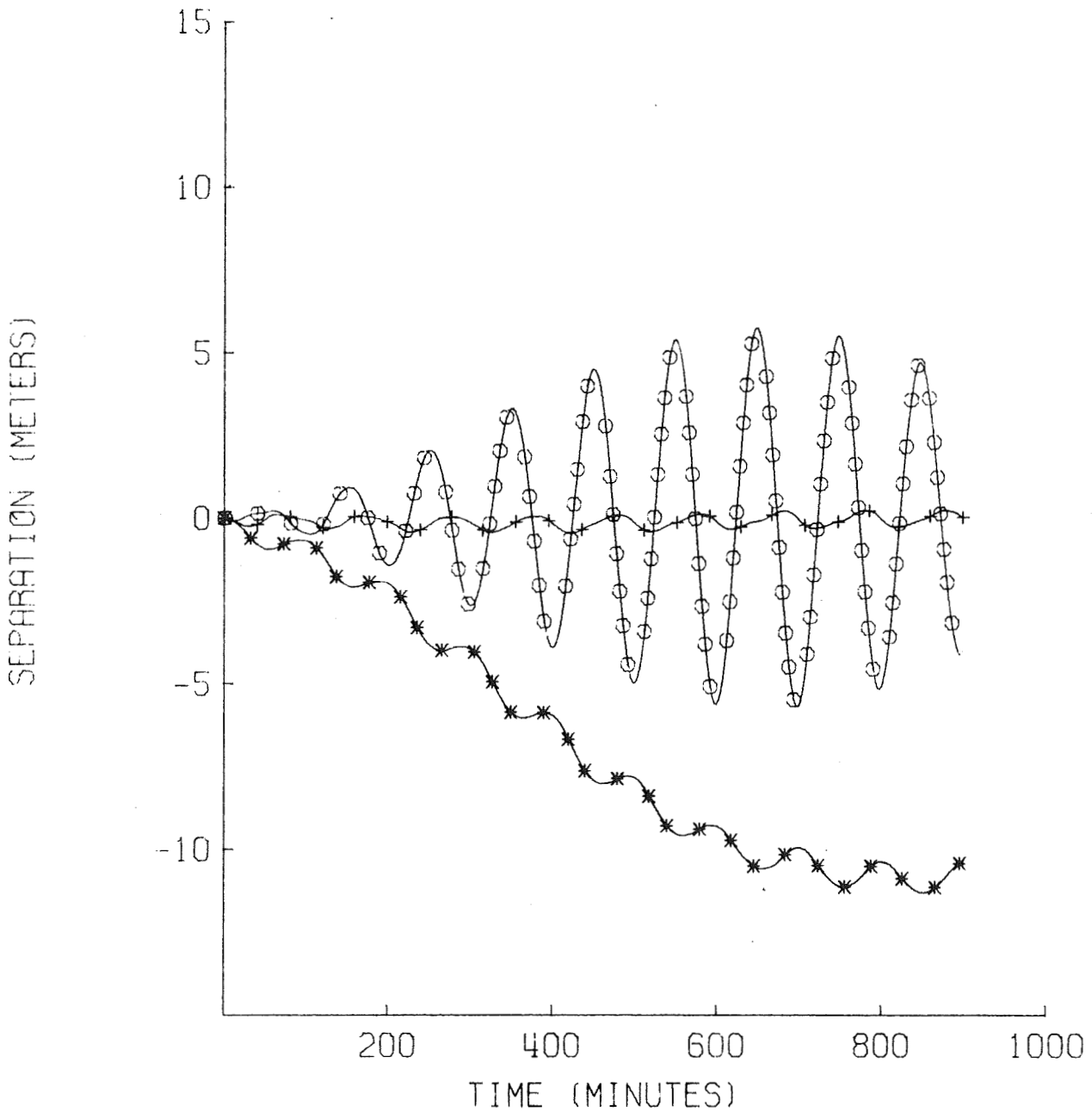
RUN FOR S(4 , 1) = -.4290

FACTOR USED IS .062238

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

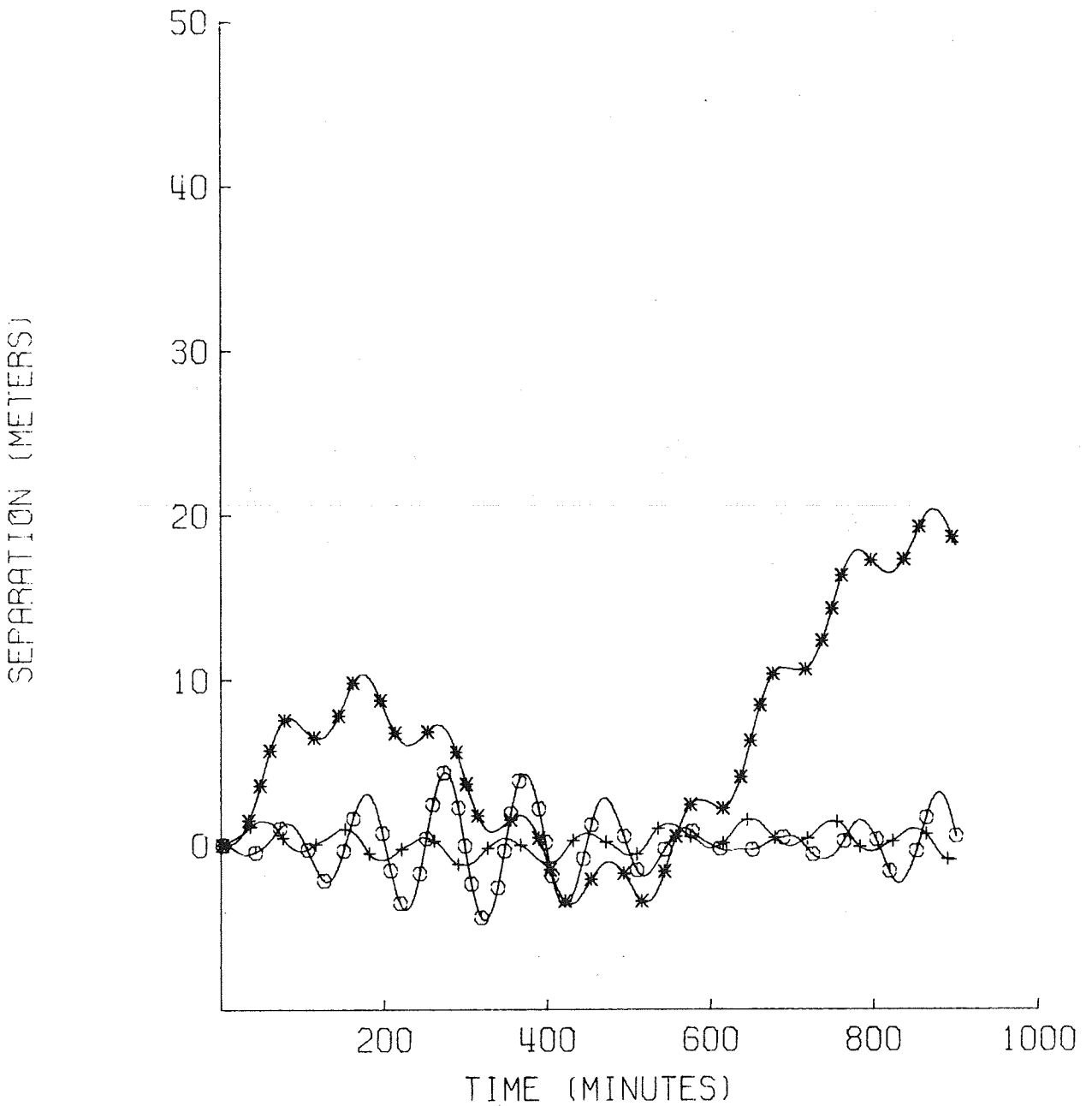
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 2) = .1966
 FACTOR USED IS .217701

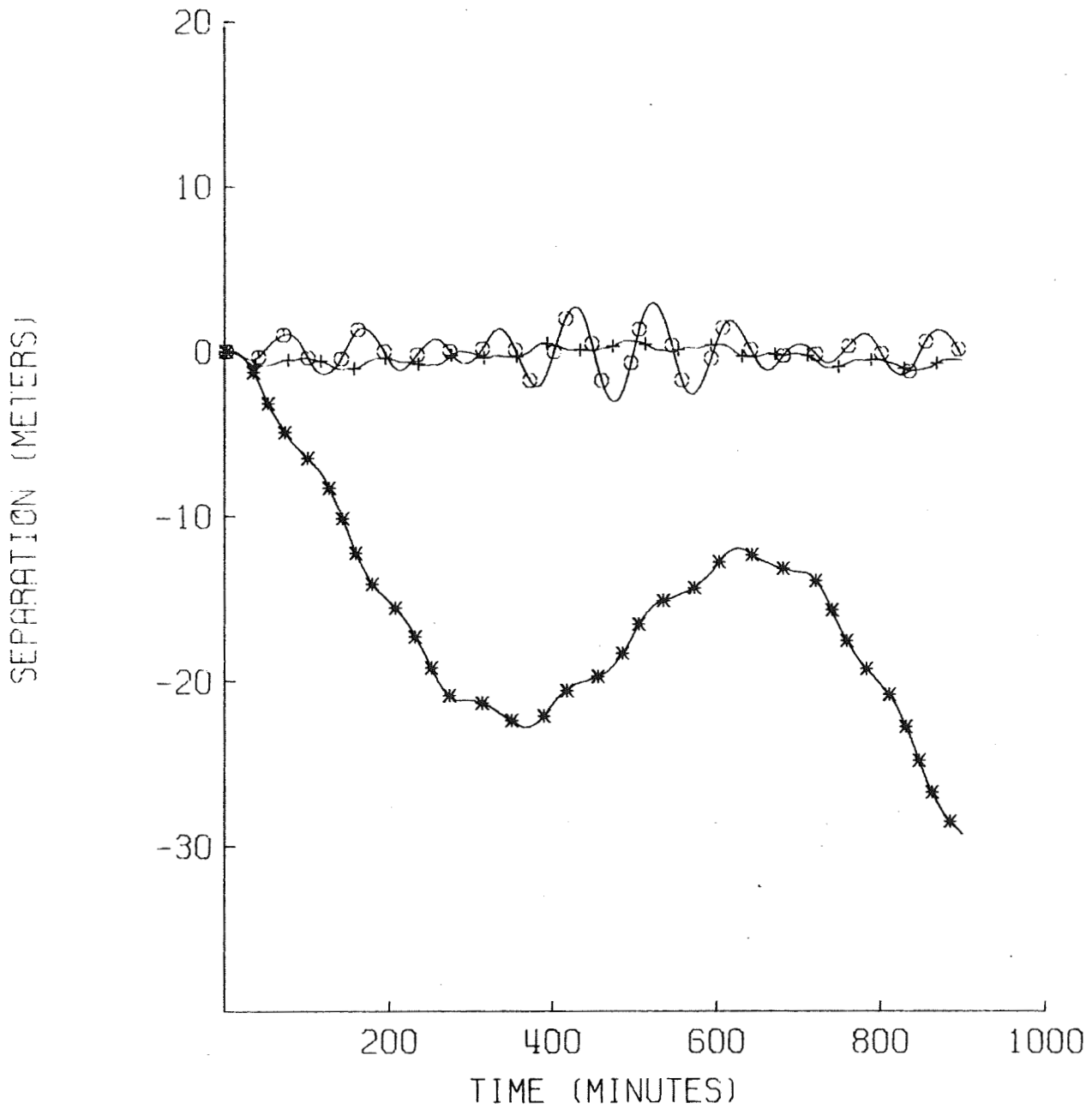
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

RUN FOR S(4 ,2) = .5120
 FACTOR USED IS .084180

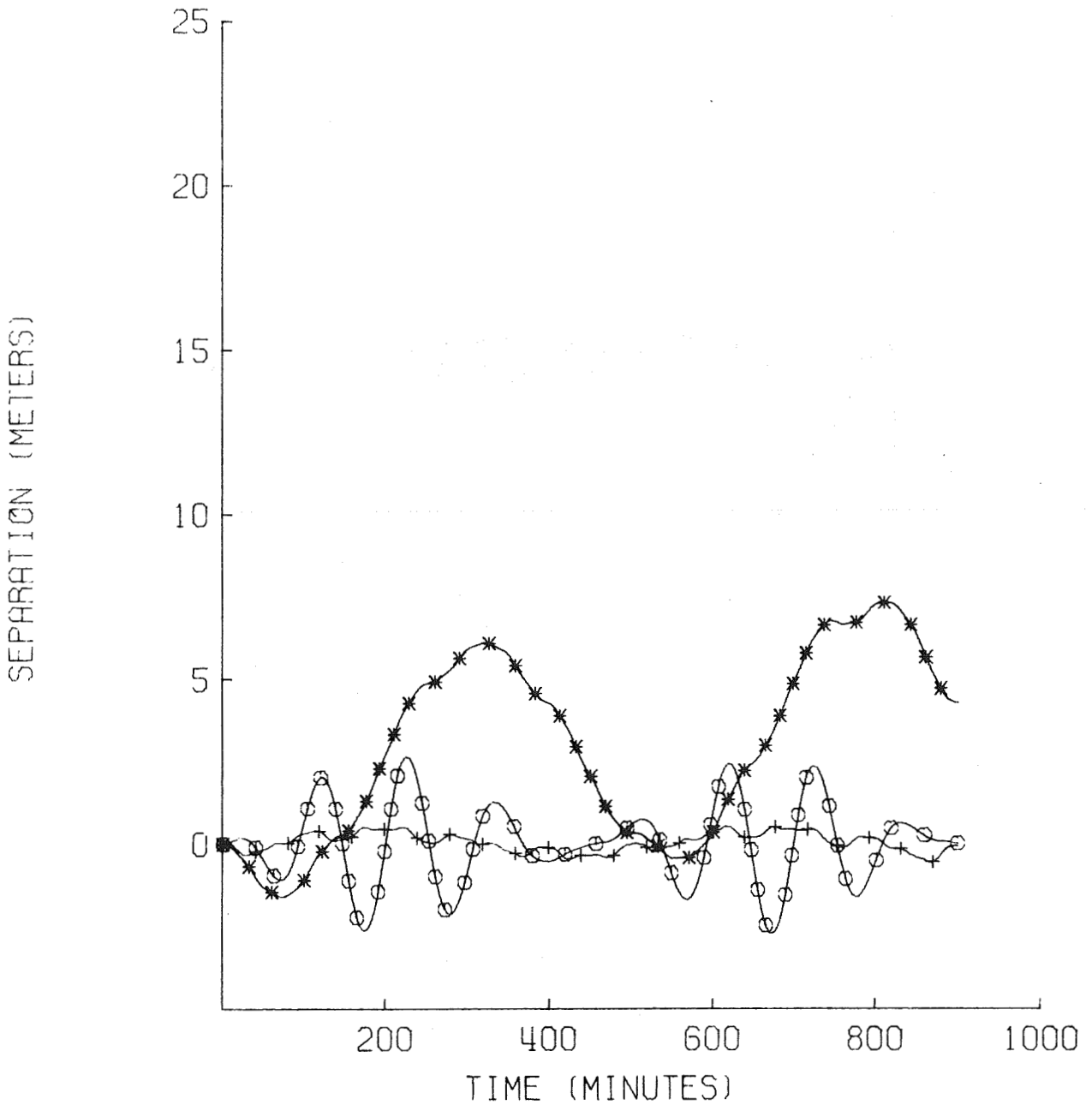
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 3) = .8804
 FACTOR USED IS .033962

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

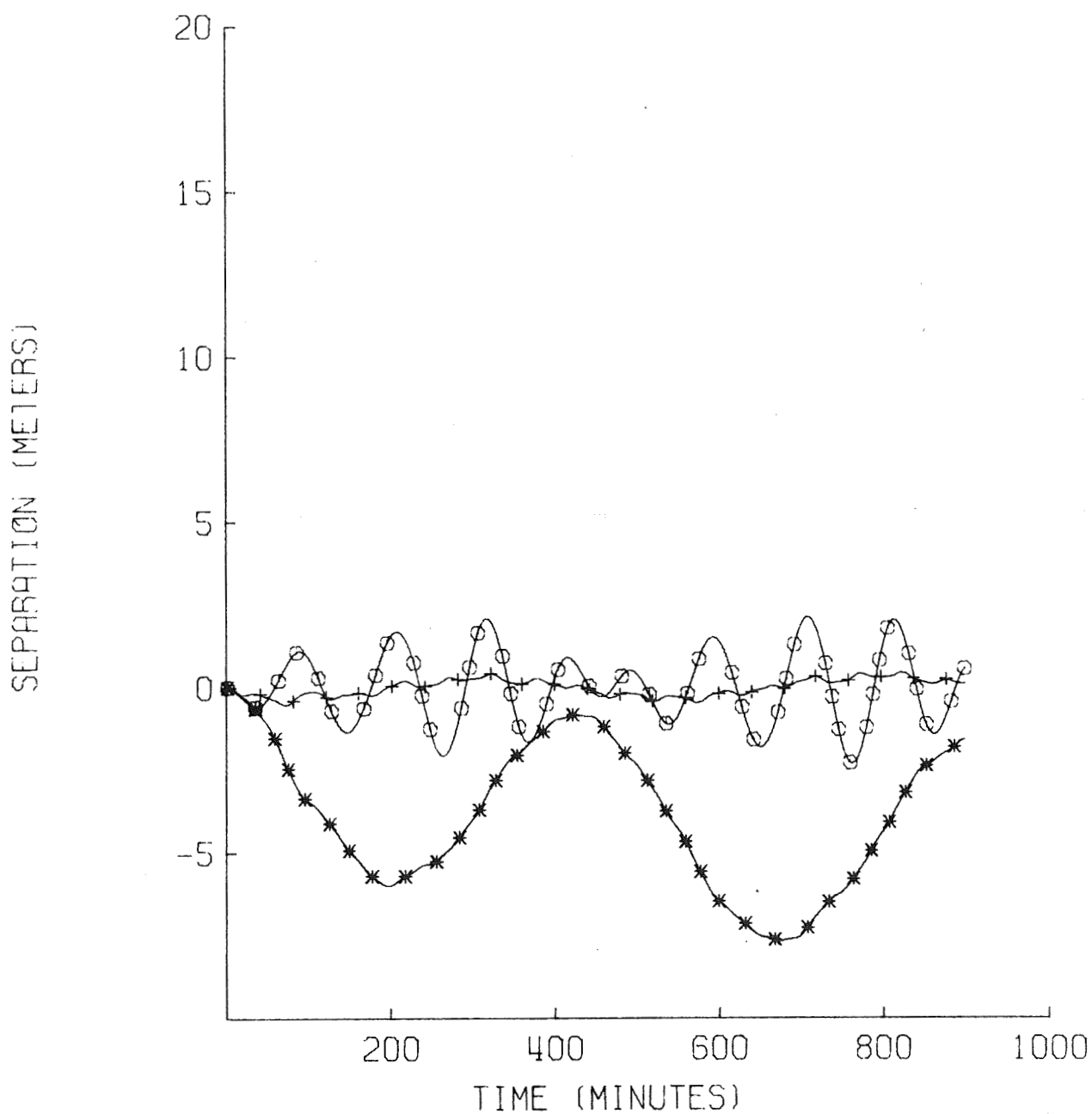
RUN FOR S(4 , 3) = -.2317

FACTOR USED IS .114372

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

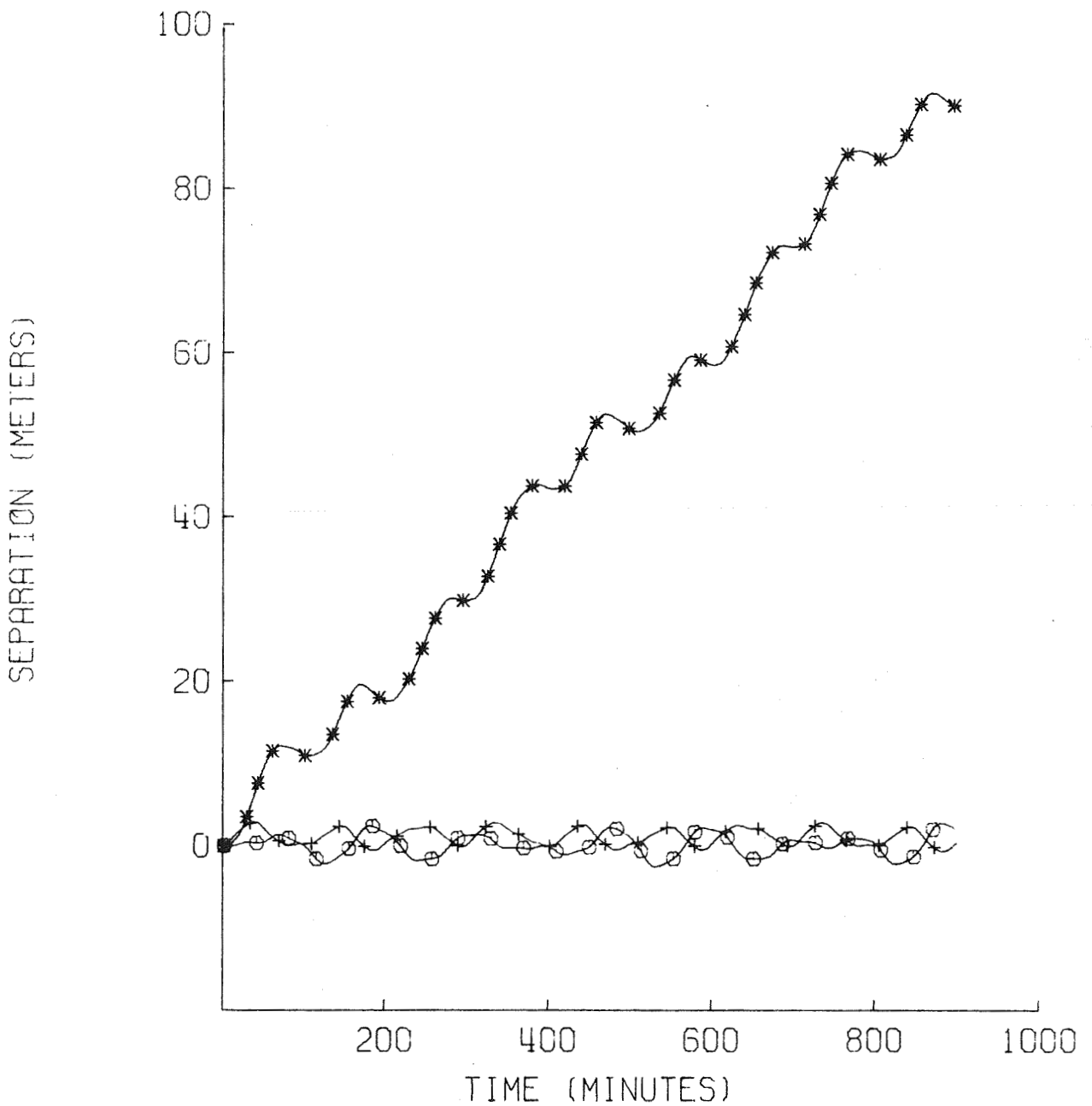
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 ,4) = .1861
 FACTOR USED IS .395486

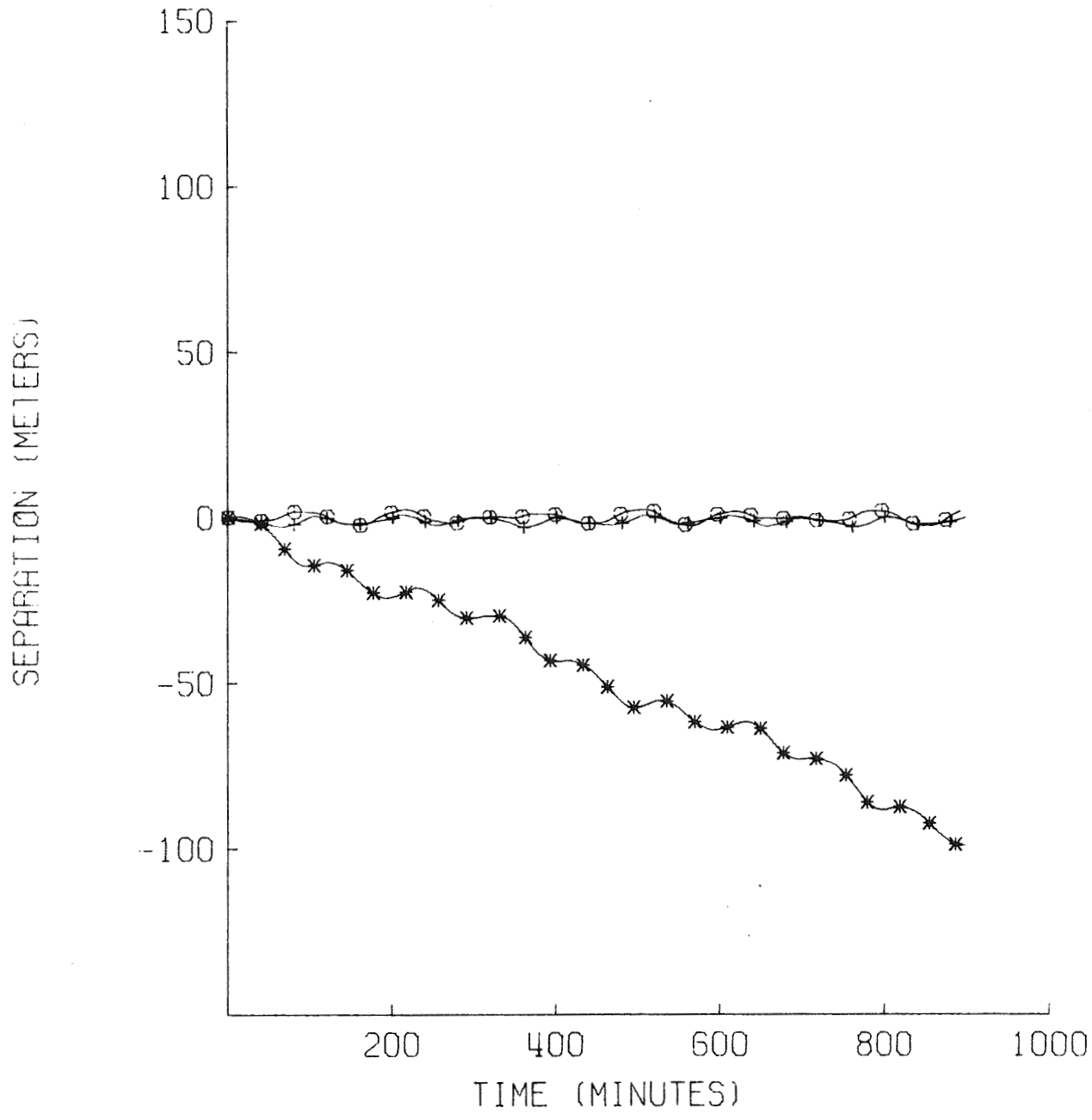
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(4 , 4) = .3065
 FACTOR USED IS .253181

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



SECTION III

GRAPHICAL OUTPUT FOR SATELLITES

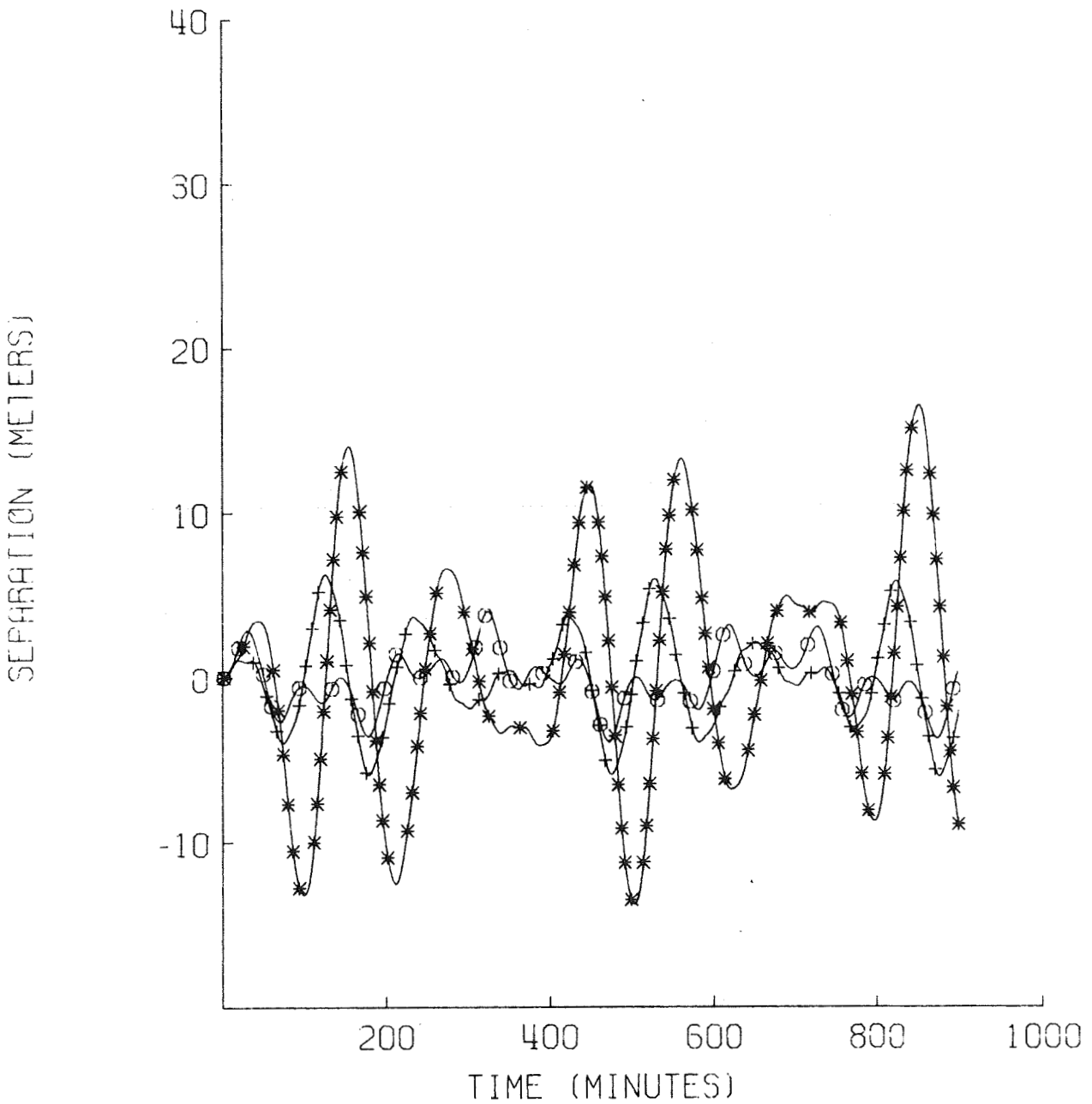
OF VARIOUS HEIGHTS

100 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(5 ,4) = .1371
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

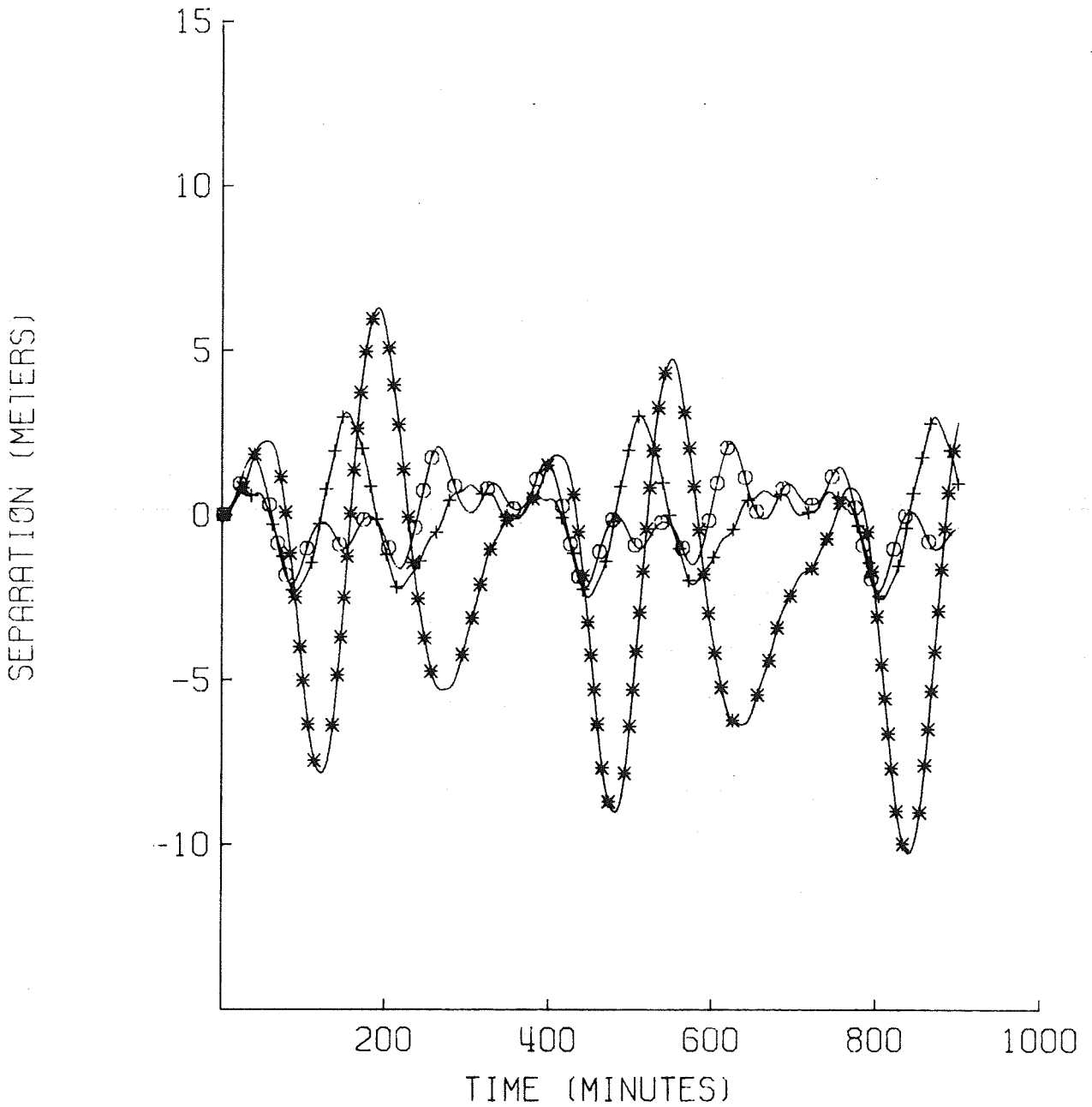


120 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8059.0177

RUN FOR C(5 ,4) = .1371
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK

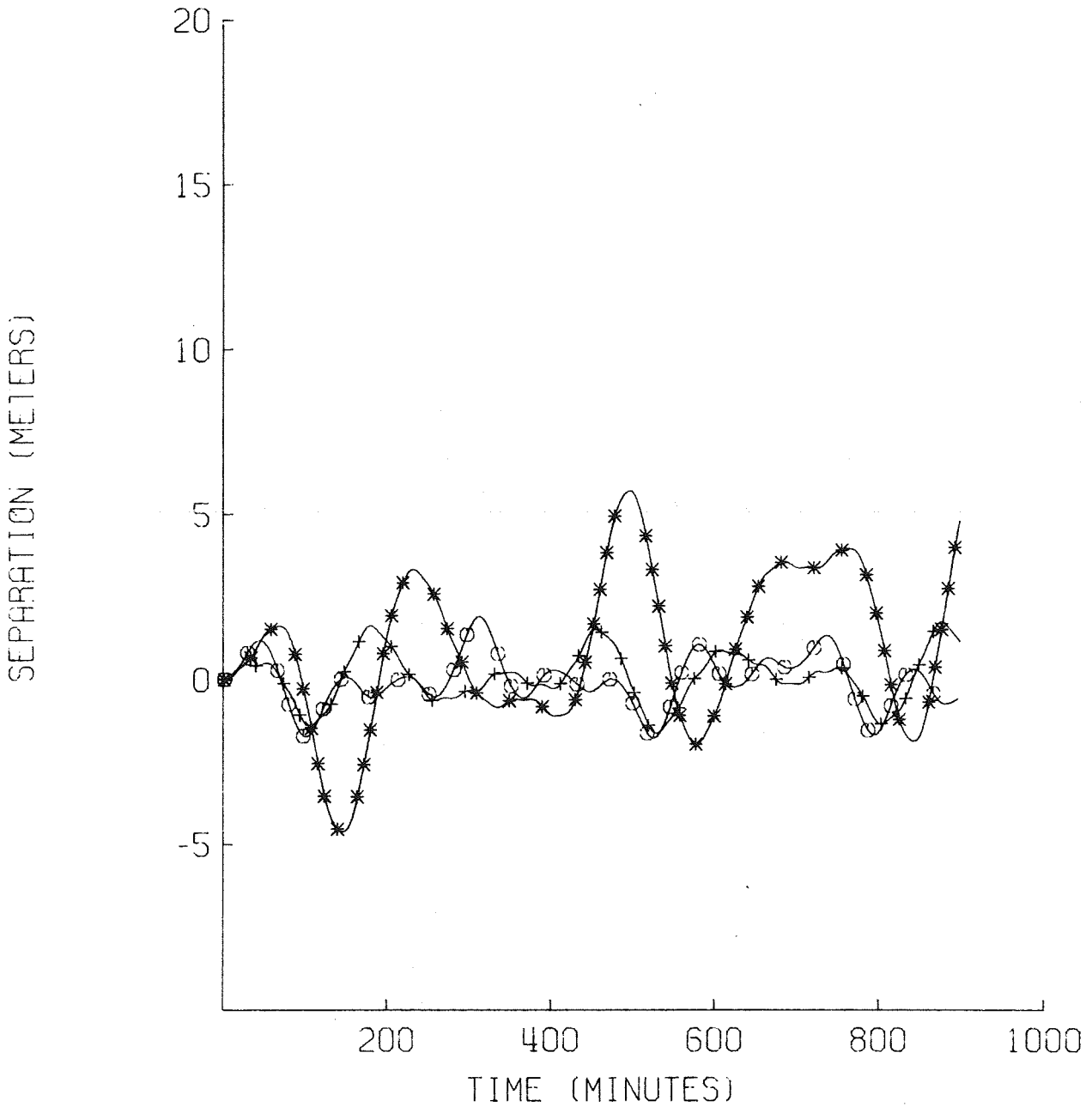


140 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9931.2718

RUN FOR C(5 , 4) = .1371
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



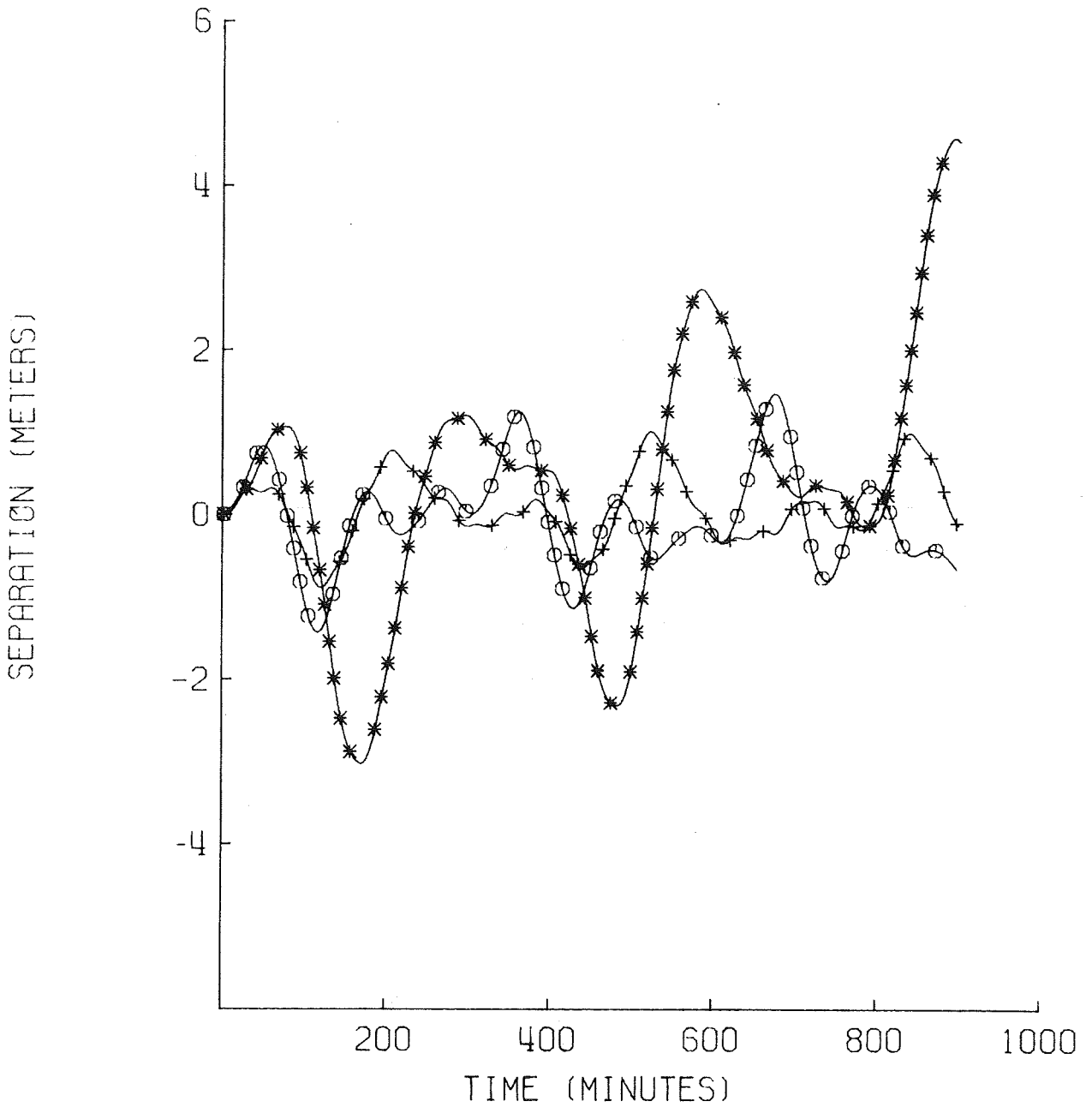
160 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9762.8046

RUN FOR C(5 ,4) = .1371

FACTOR USED IS 1.000000

- (*) IN-TRACK
- (+) PRINCIPAL NORMAL CROSS-TRACK
- (O) BI-NORMAL CROSS-TRACK



180 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	10560.3009

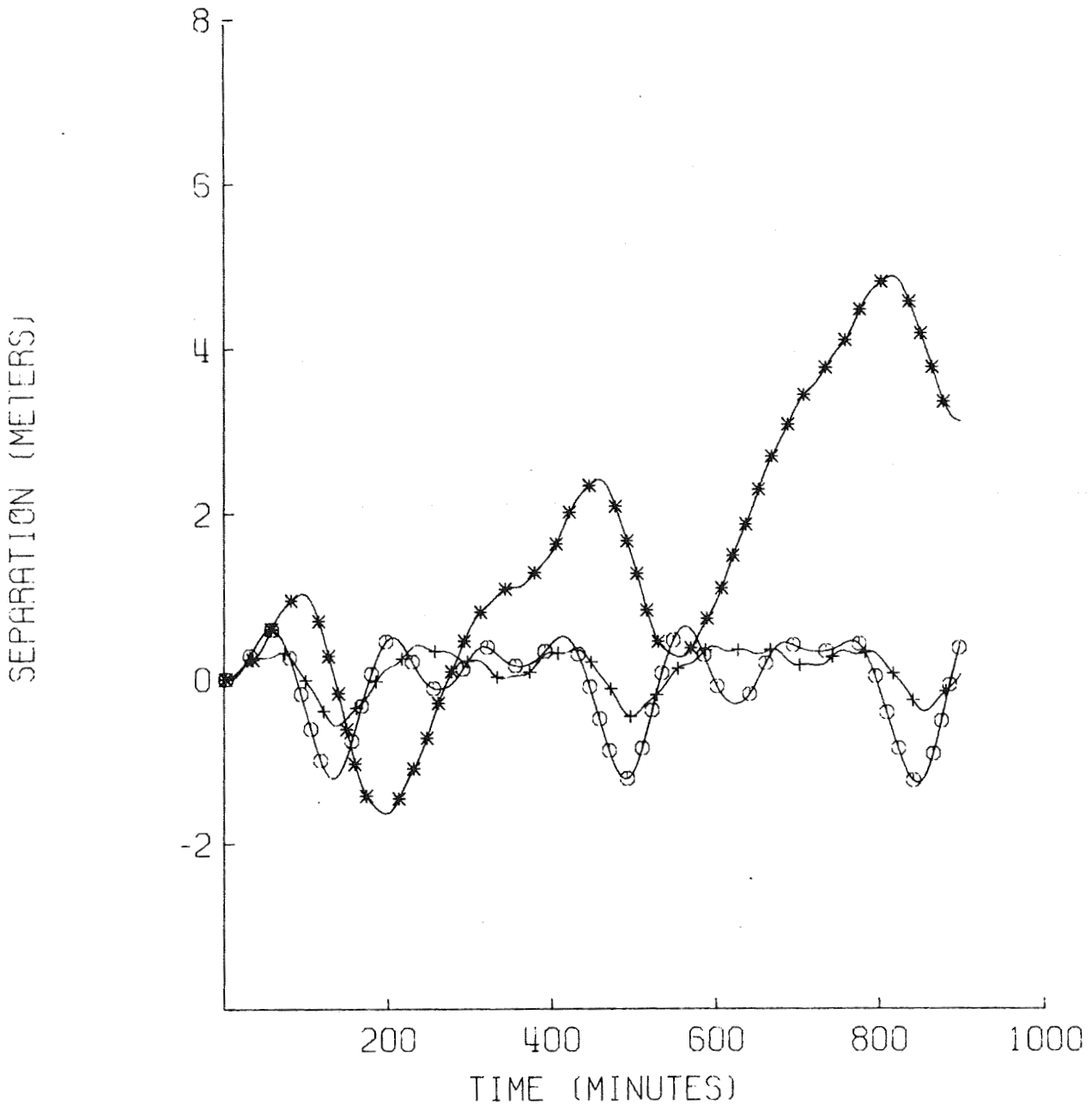
RUN FOR C(5 ,4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



200 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	11328.7310

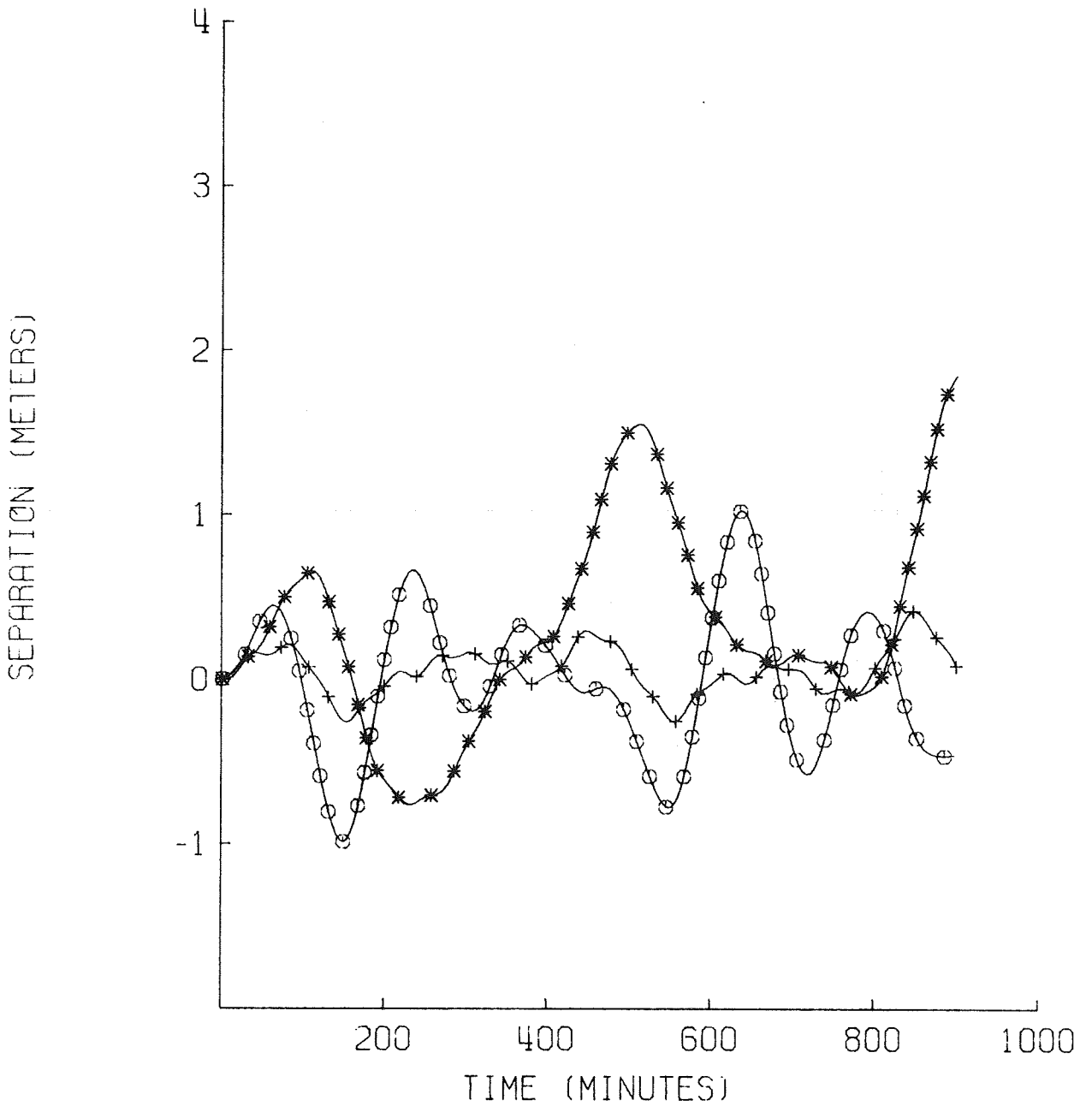
RUN FOR C(5 ,4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK

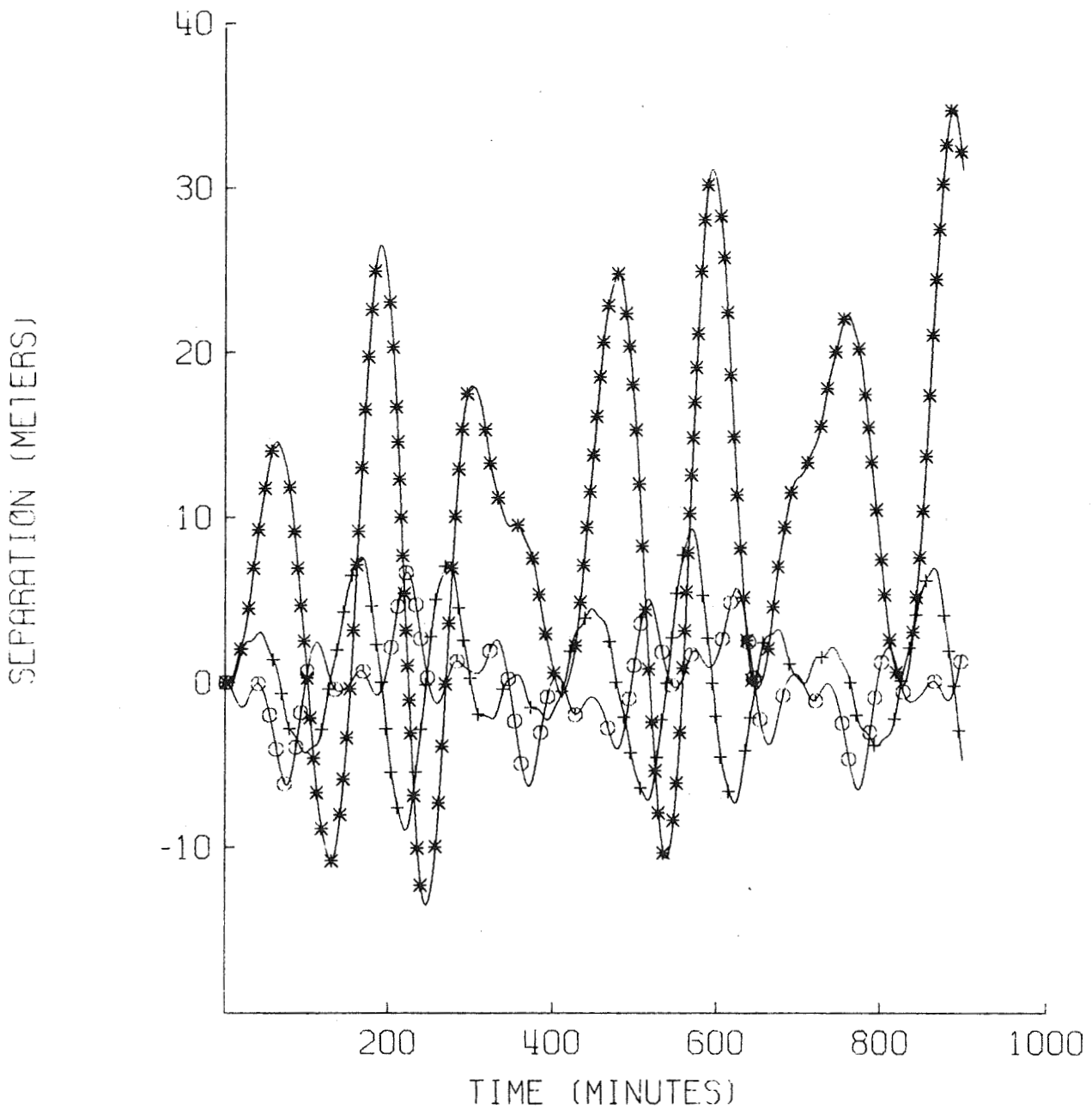


100 MINUTE PERIOD

M OMEGA C OMEGA I E A
 0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

RUN FOR S(5 , 4) = .2119
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK

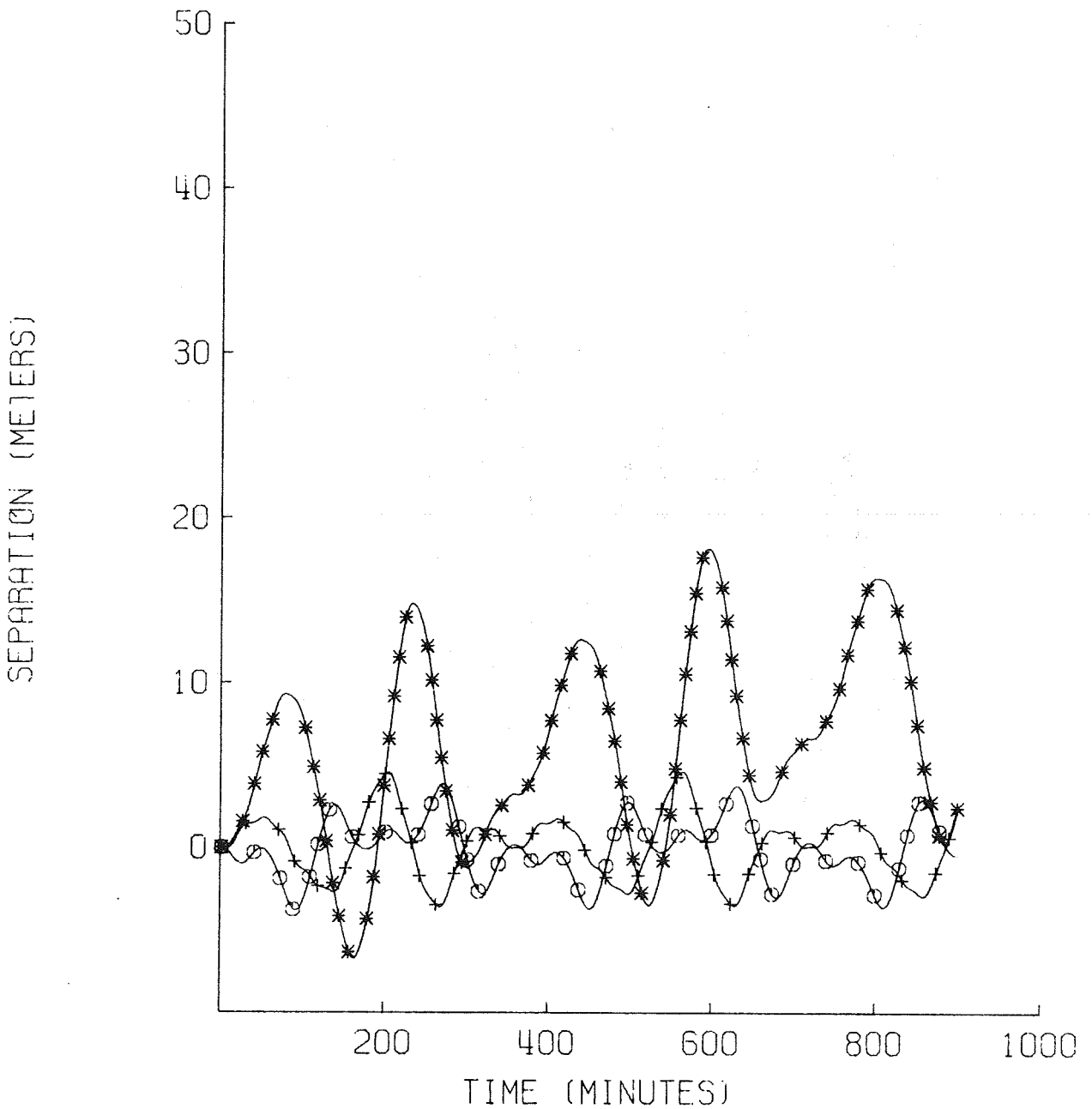


120 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8059.0177

RUN FOR S(5 , 4) = .2119
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

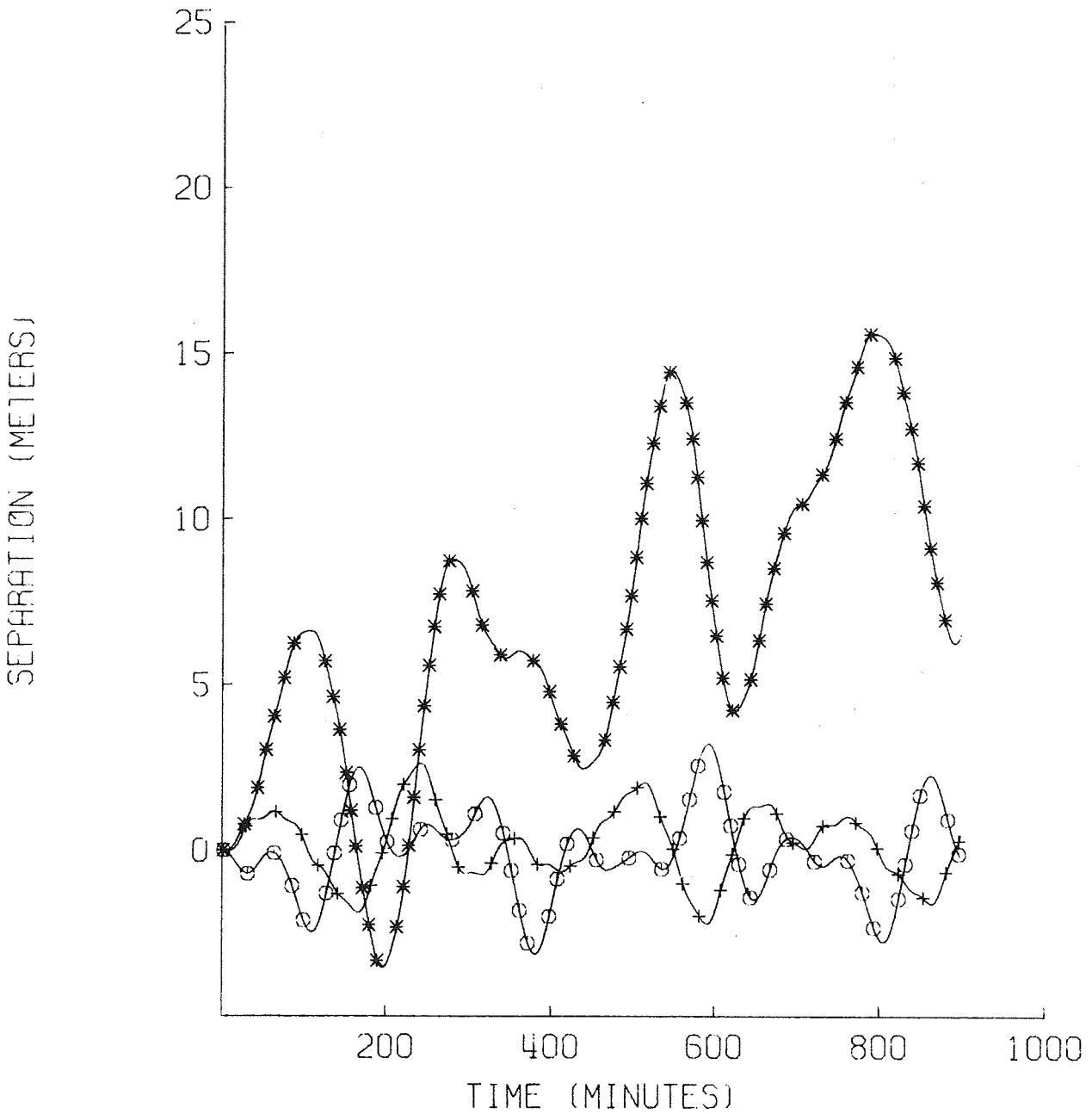


140 MINUTE PERIOD

M OMEGA C OMEGA I E A
 0.0000 0.0000 0.0000 45.00000 .00500000 8931.2718

RUN FOR S(5 ,4) = .2119
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



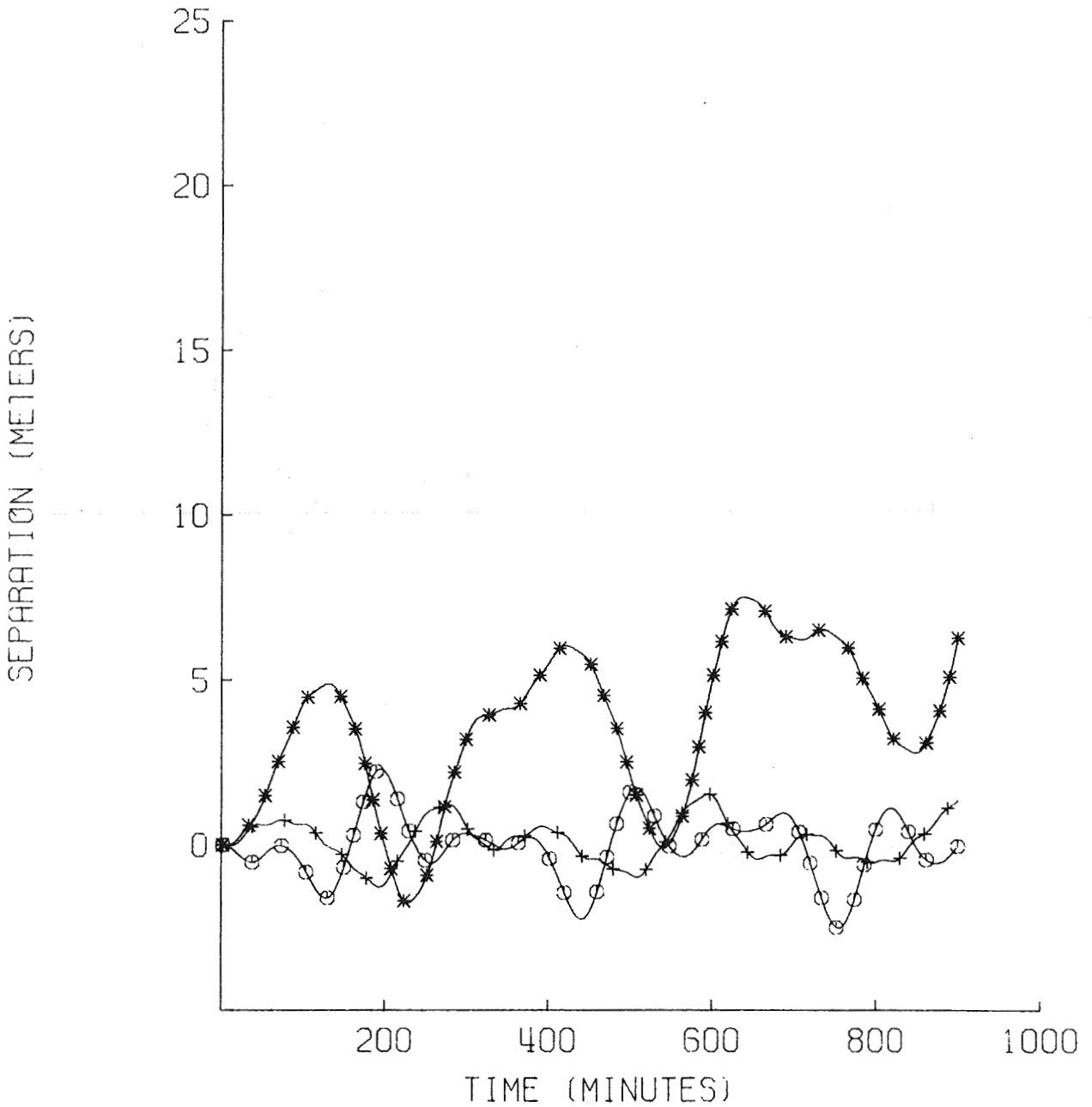
160 MINUTE PERIOD

M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 9762.8046

RUN FOR S(5 , 4) = .2119

FACTOR USED IS 1.000000

- (*) IN-TRACK
- (+) PRINCIPAL NORMAL CROSS-TRACK
- (⊙) BI-NORMAL CROSS-TRACK

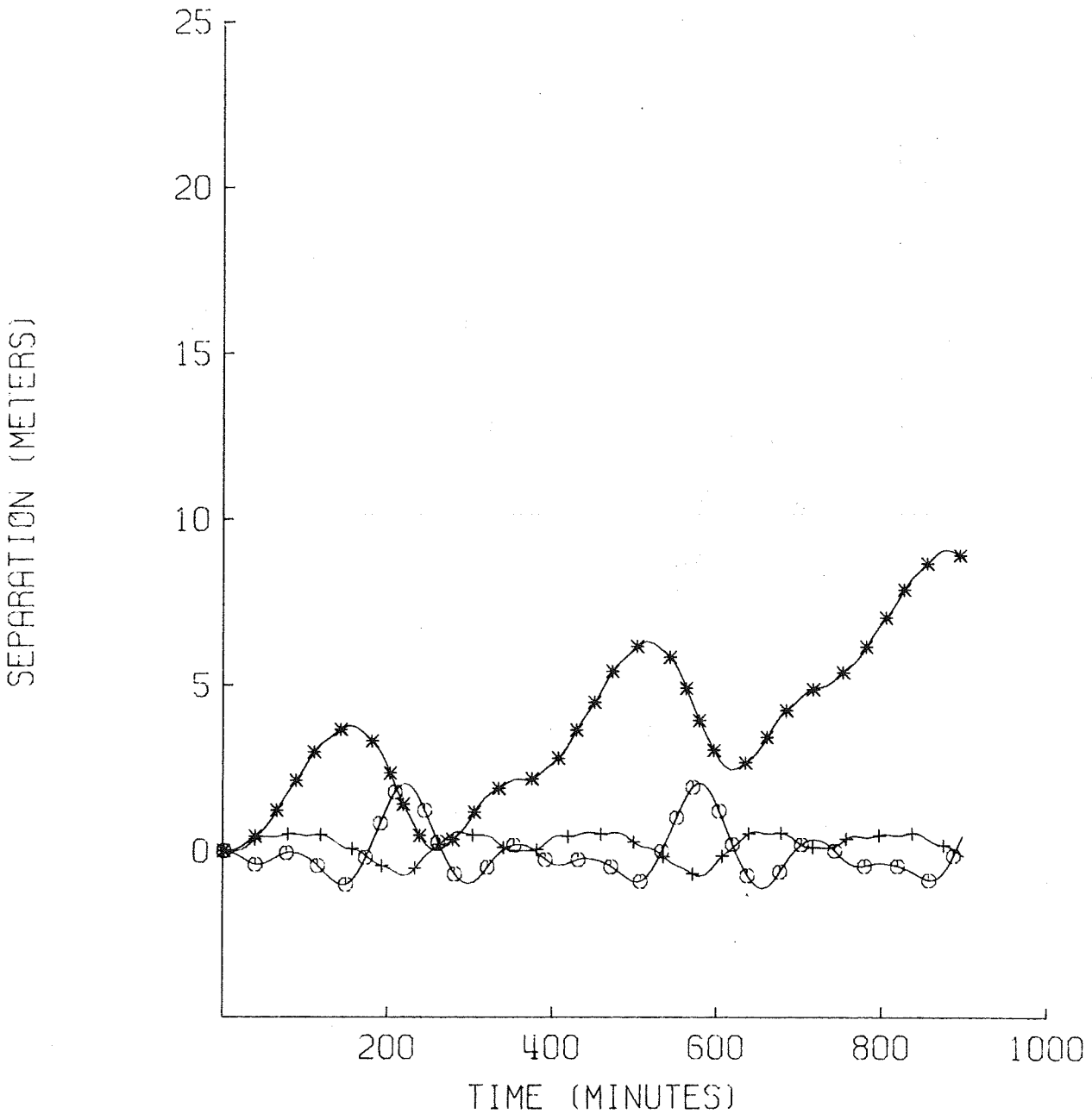


180 MINUTE PERIOD

M OMEGA C OMEGA I E A
 0.0000 0.0000 0.0000 45.00000 .00500000 10560.3009

RUN FOR S(5 ,4) = .2119
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

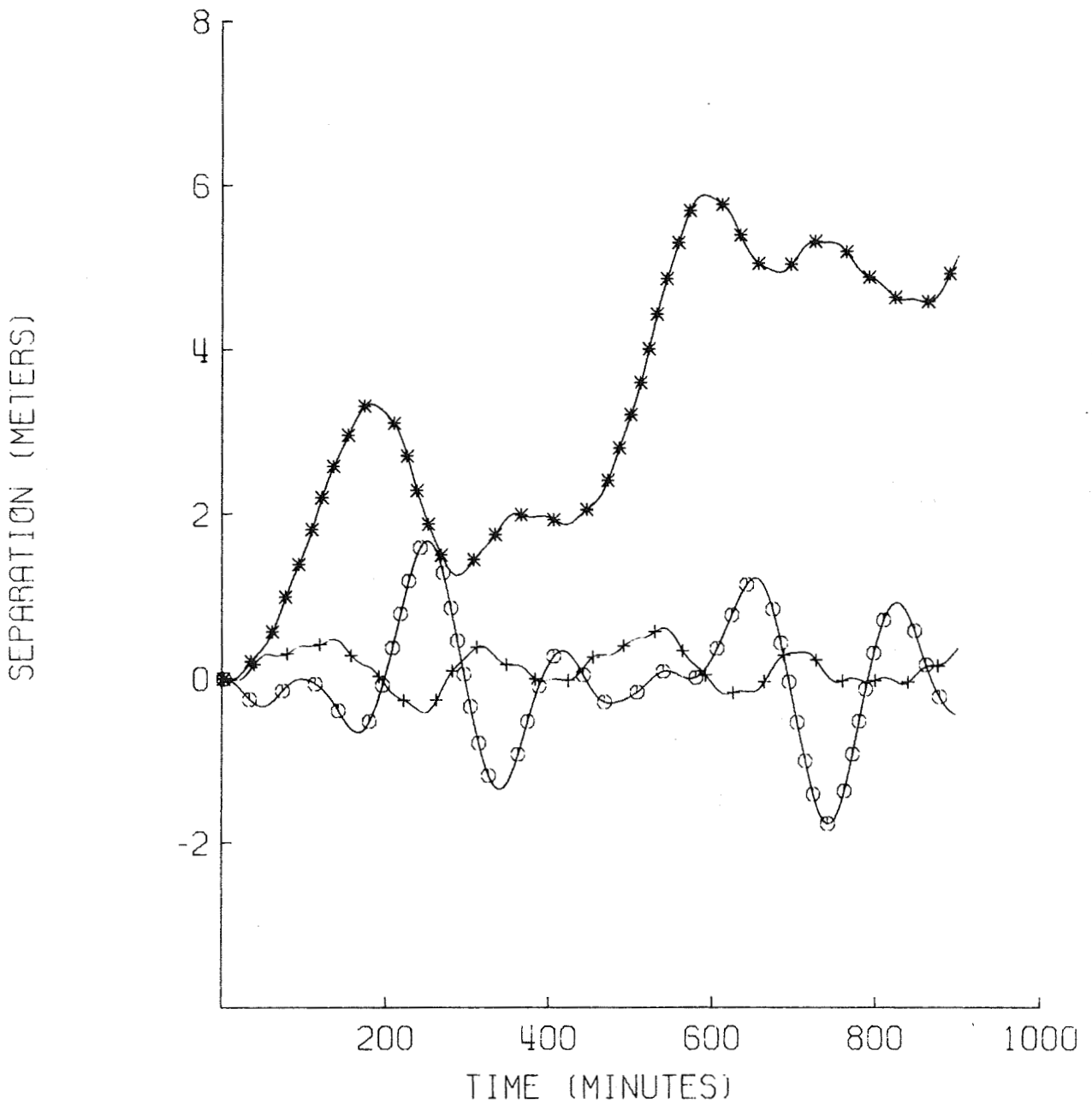


200 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	11328.7310

RUN FOR S(5 , 4) = .2119
FACTOR USED IS 1.000000

- (*) IN-TRACK
- (+) PRINCIPAL NORMAL CROSS-TRACK
- (O) BI-NORMAL CROSS-TRACK

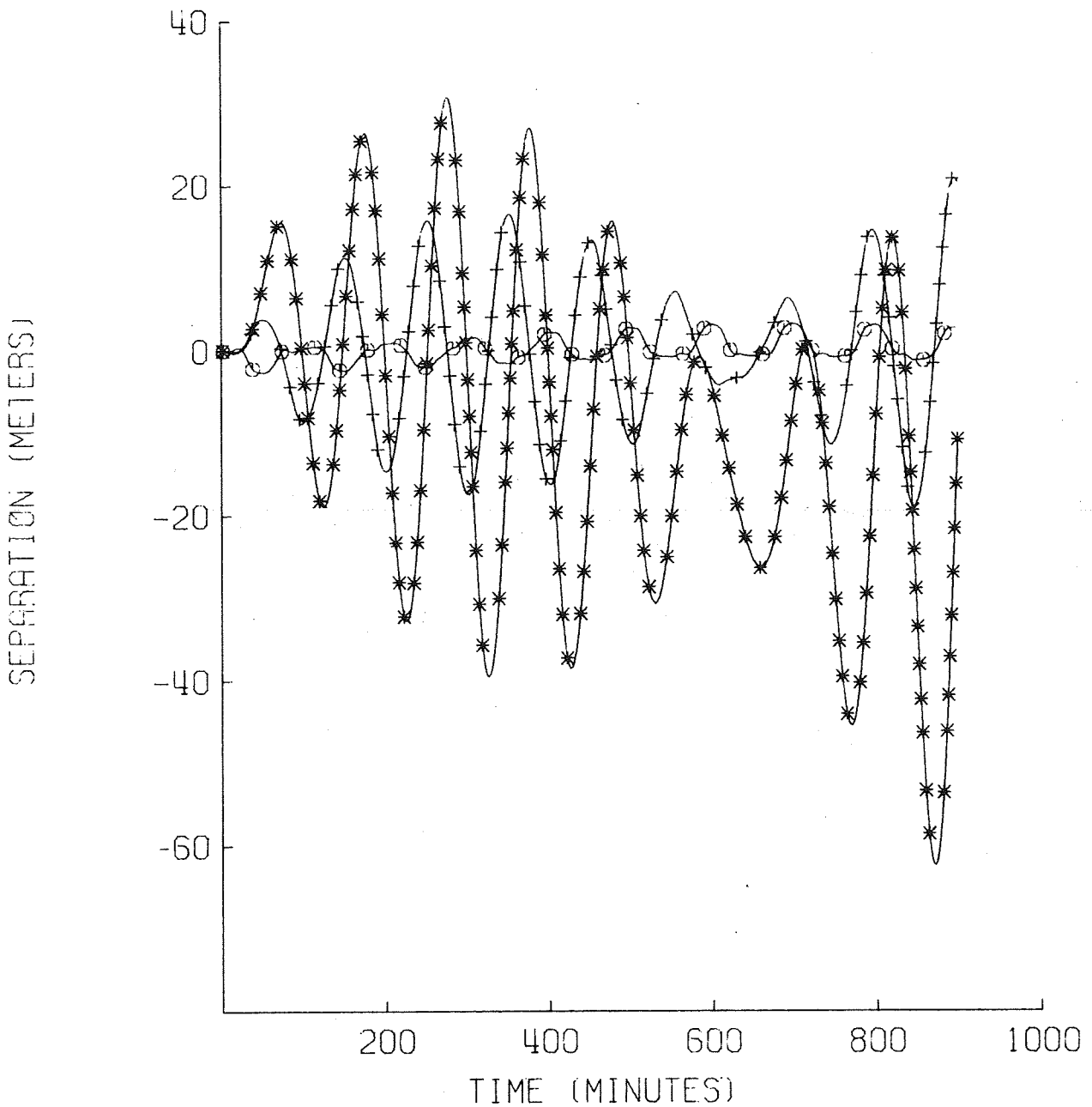


100 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 , 1) = .1598
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK



120 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8059.0177

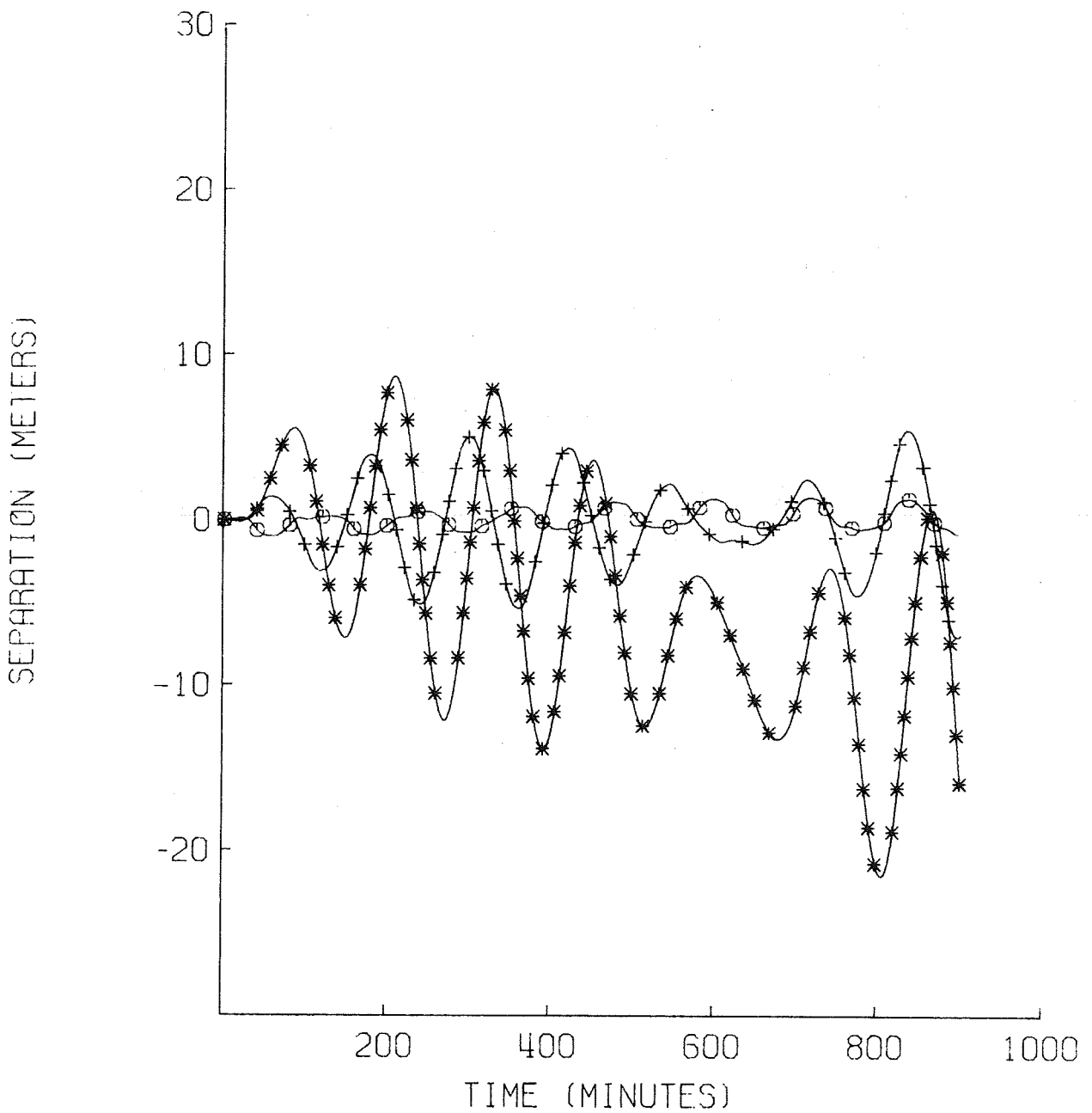
RUN FOR C(9 , 1) = .1598

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



140 MINUTE PERIOD

M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 8931.2718

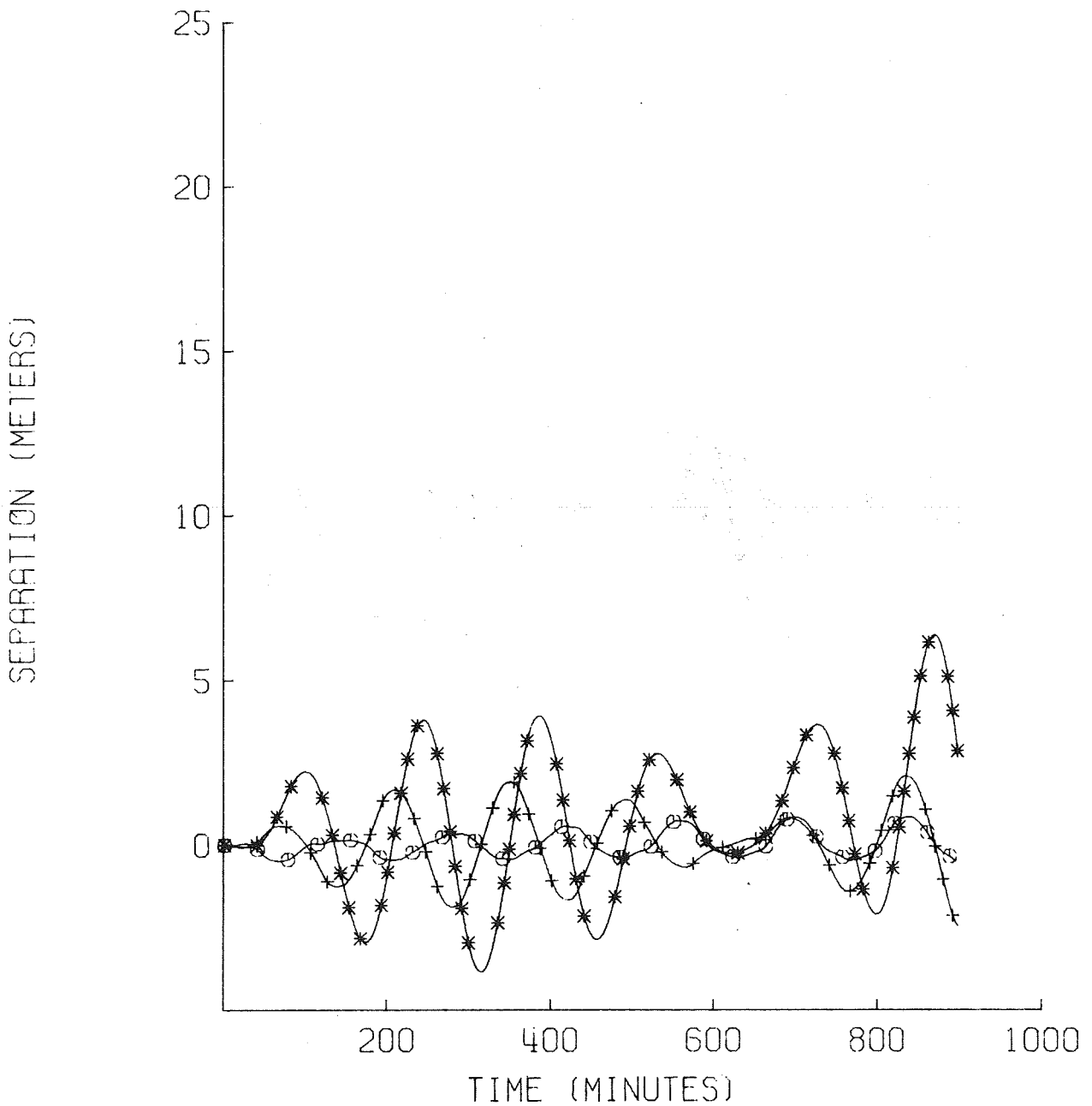
RUN FOR C(9 , 1) = .1598

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK

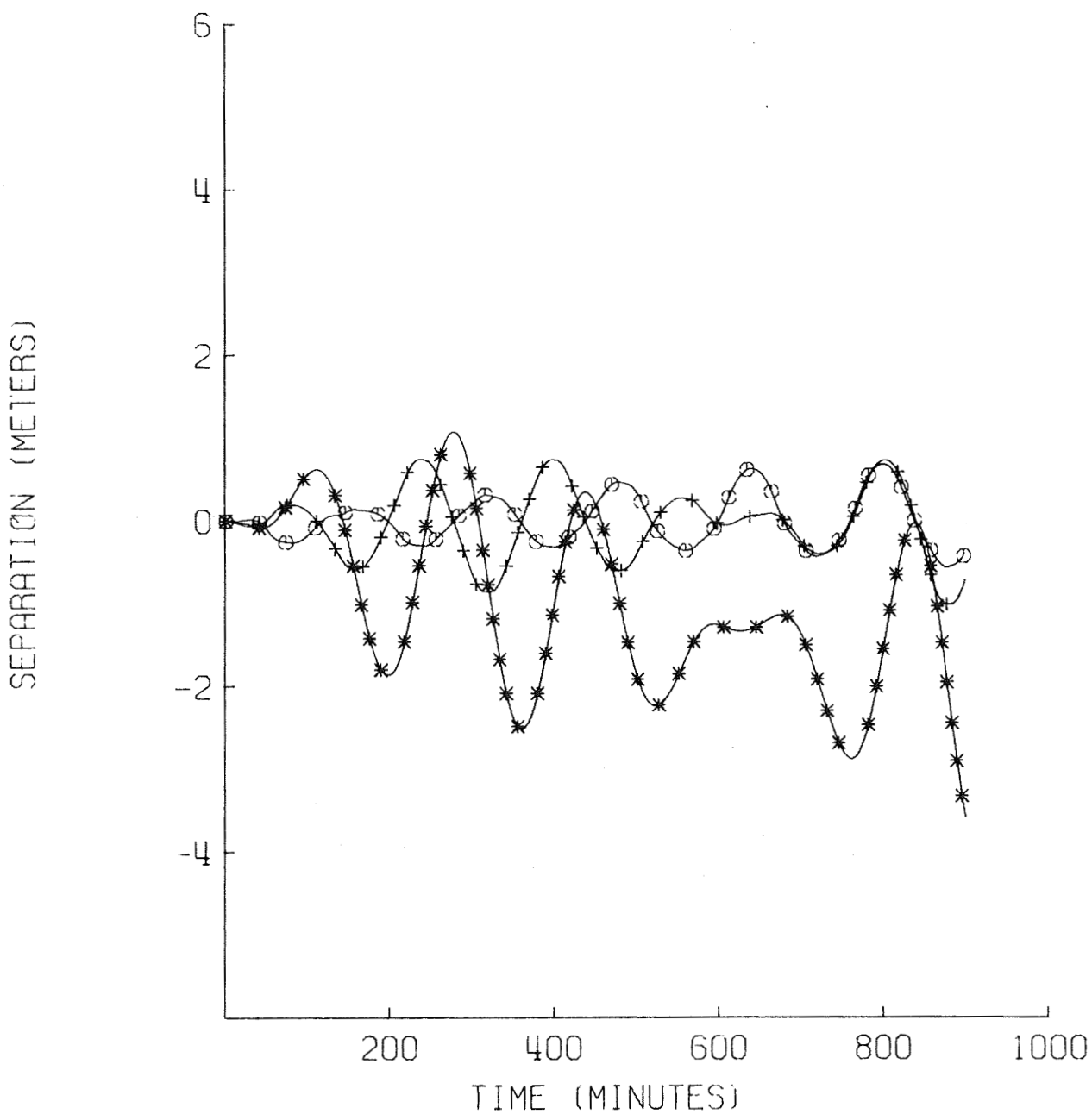


160 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9762.8046

RUN FOR C(9 ,1) = .1598
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK

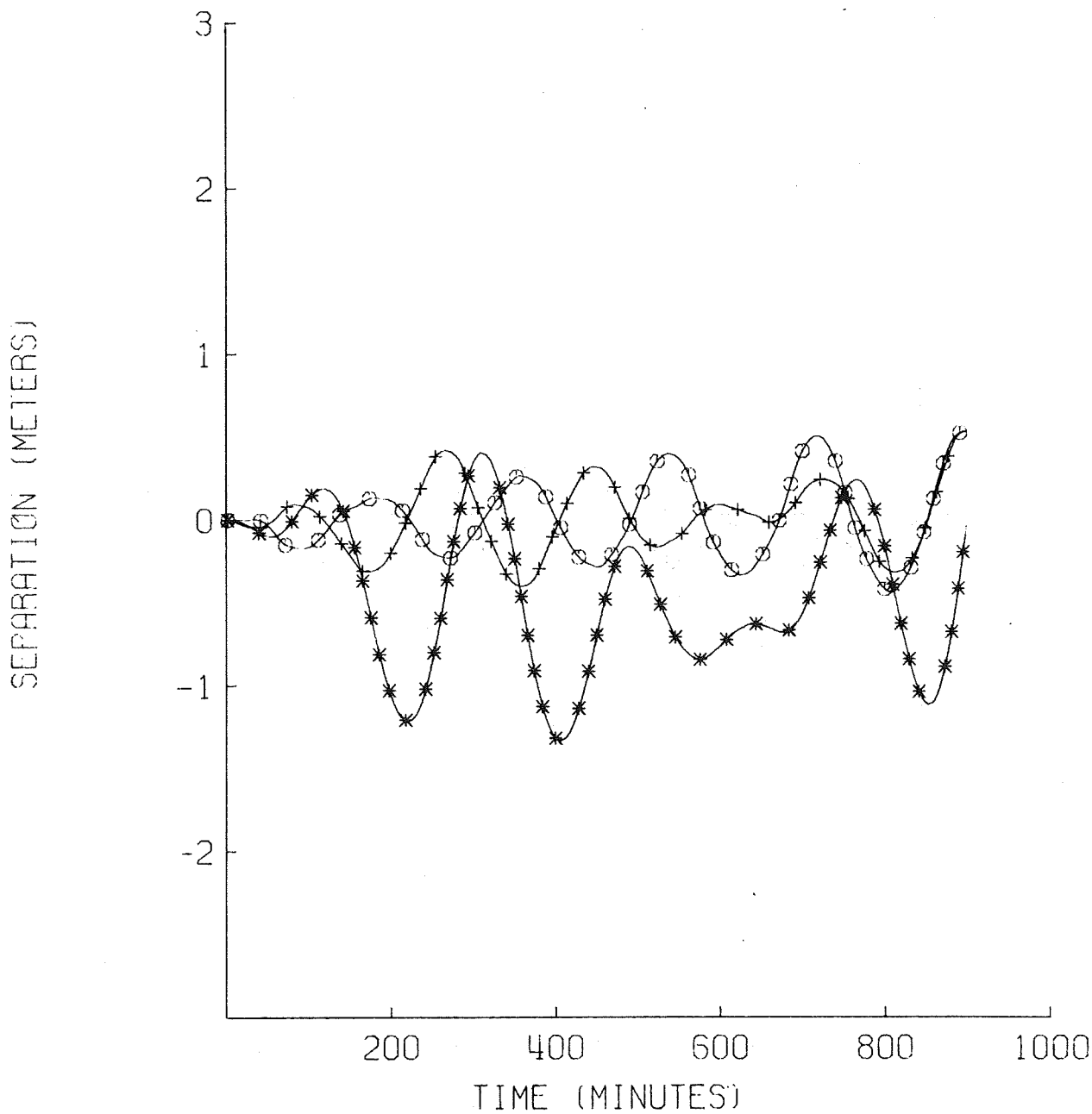


180 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	10560.3009

RUN FOR C(9 , 1) = .1598
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊖) BI-NORMAL CROSS-TRACK

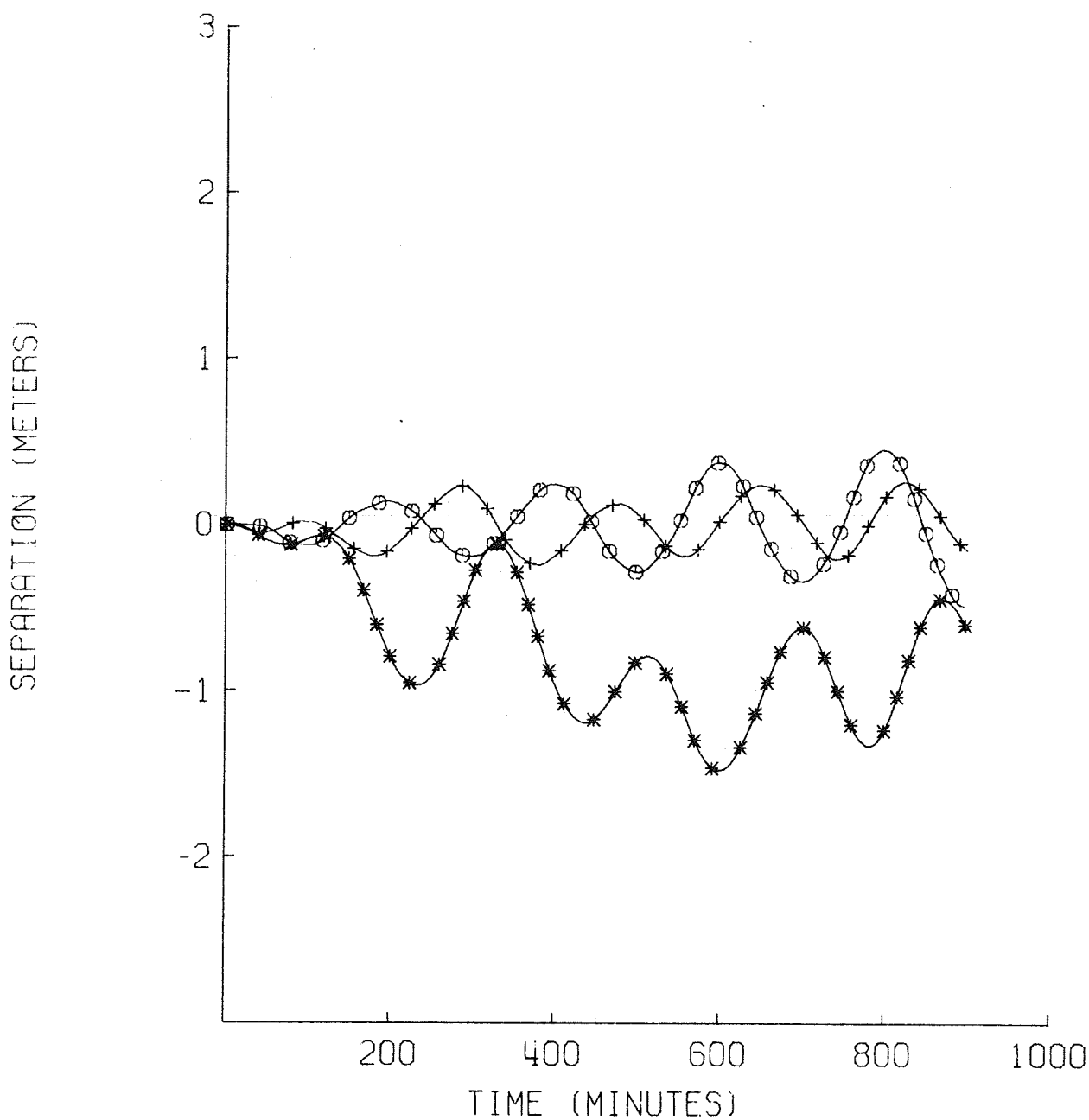


200 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	11328.7310

RUN FOR C(9 , 1) = .1598
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK

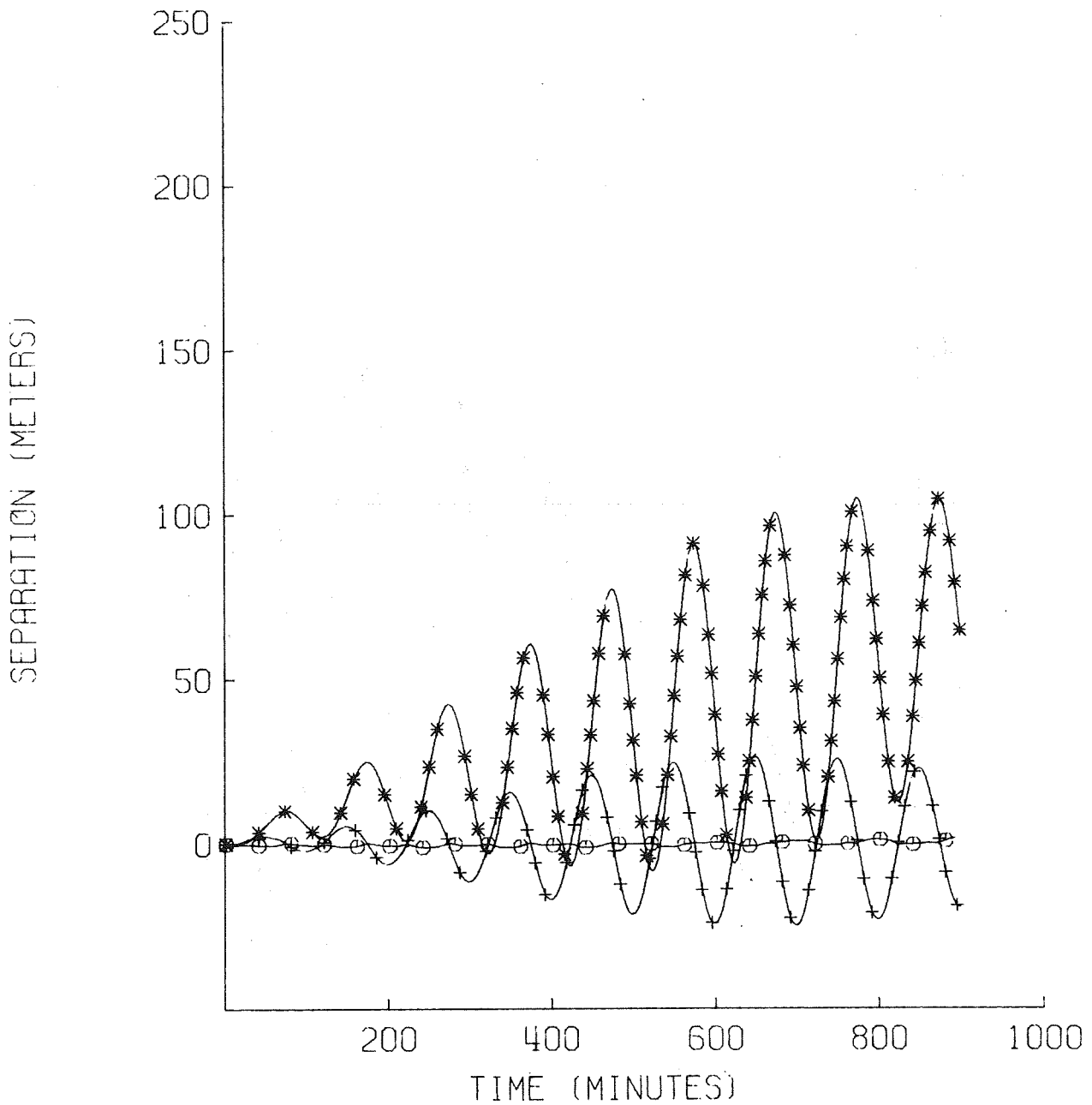


100 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(9 , 1) = -.0966
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK

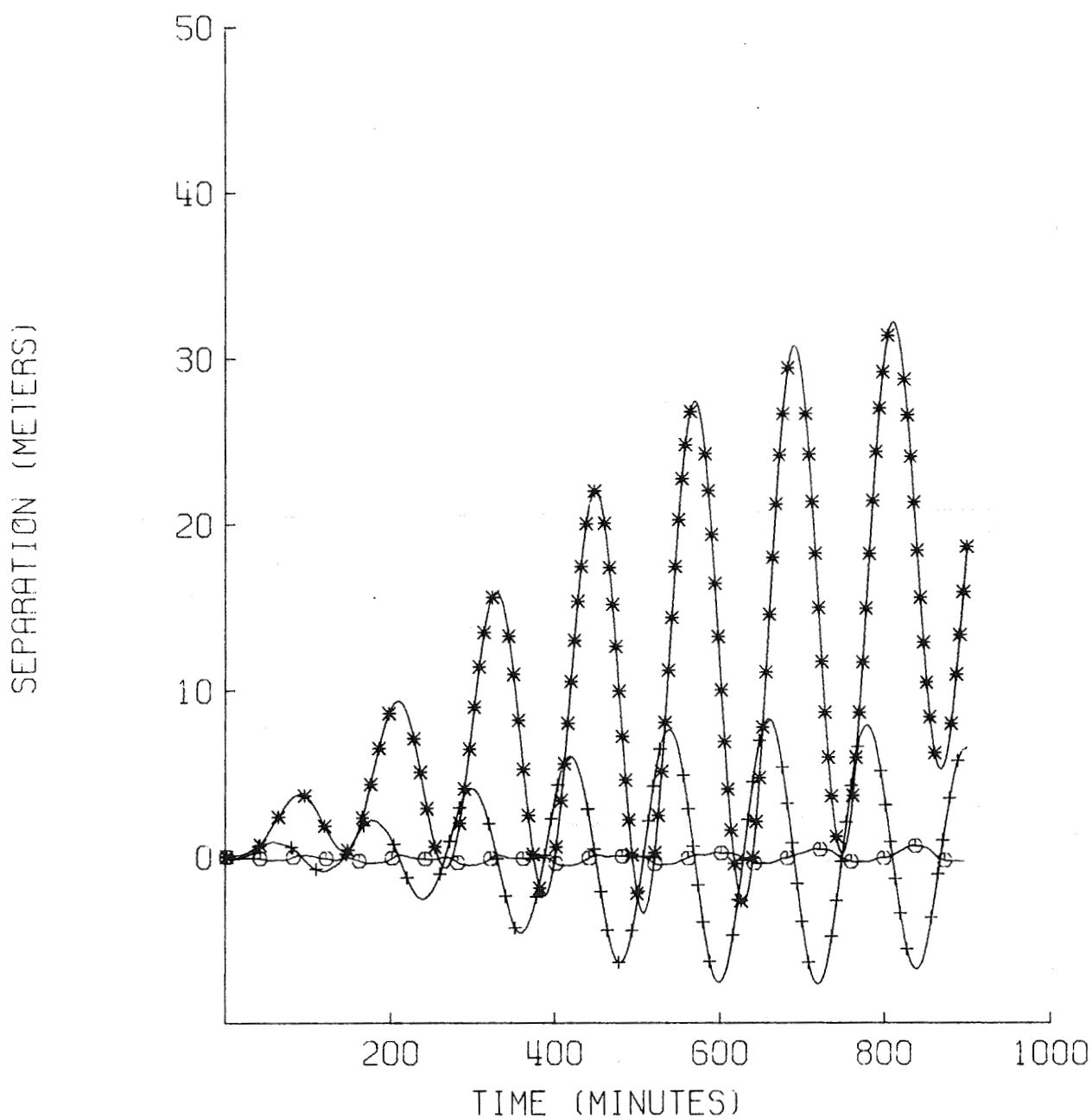


120 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8059.0177

RUN FOR S(9 , 1) = -.0966
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK

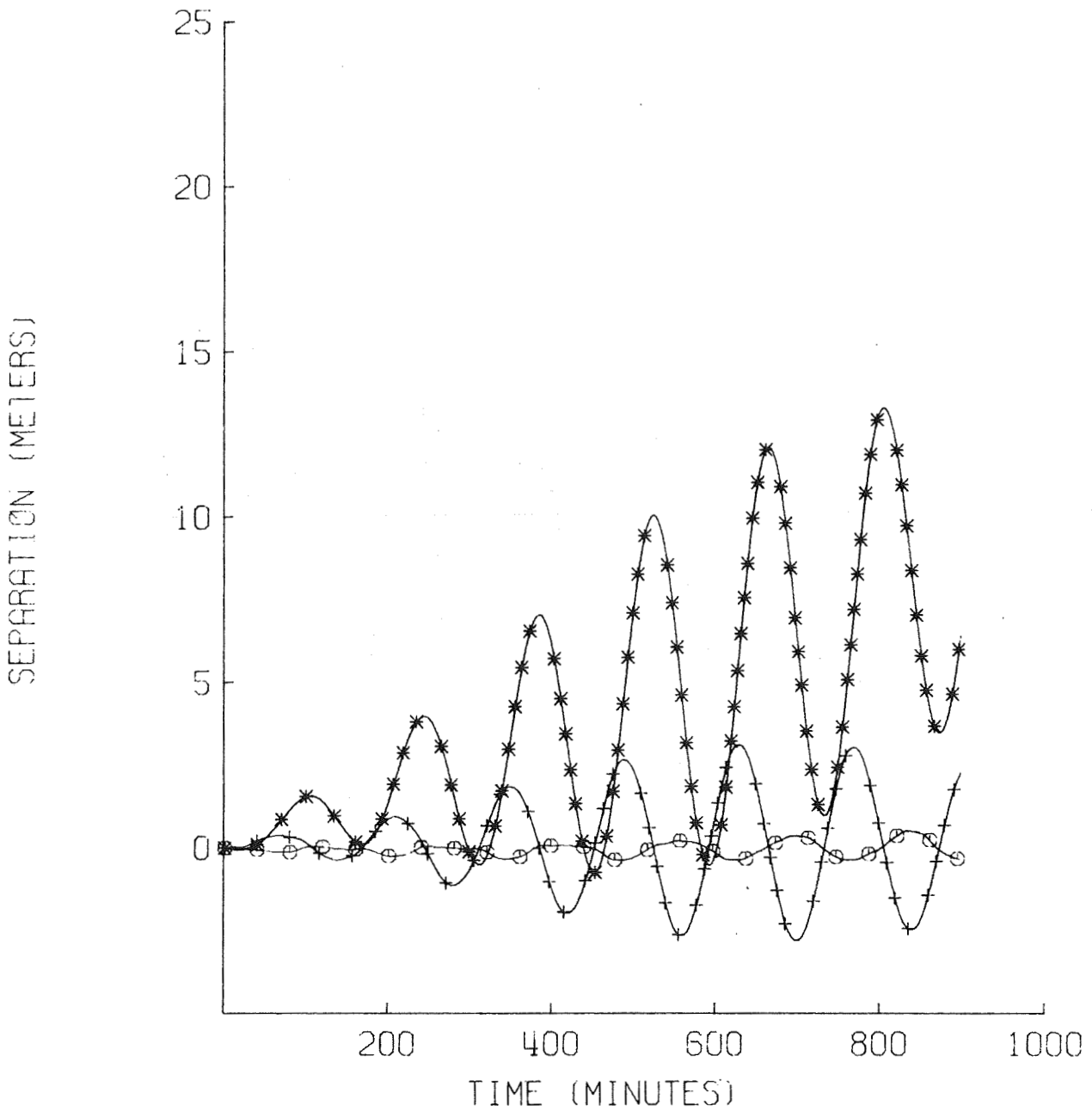


140 MINUTE PERIOD

M OMEGA C OMEGA I E A
0.0000 0.0000 0.0000 45.00000 .00500000 8931.2718

RUN FOR S(9 , 1) = -.0966
FACTOR USED IS 1.000000

(*) IN-TRACK
(+) PRINCIPAL NORMAL CROSS-TRACK
(⊙) BI-NORMAL CROSS-TRACK

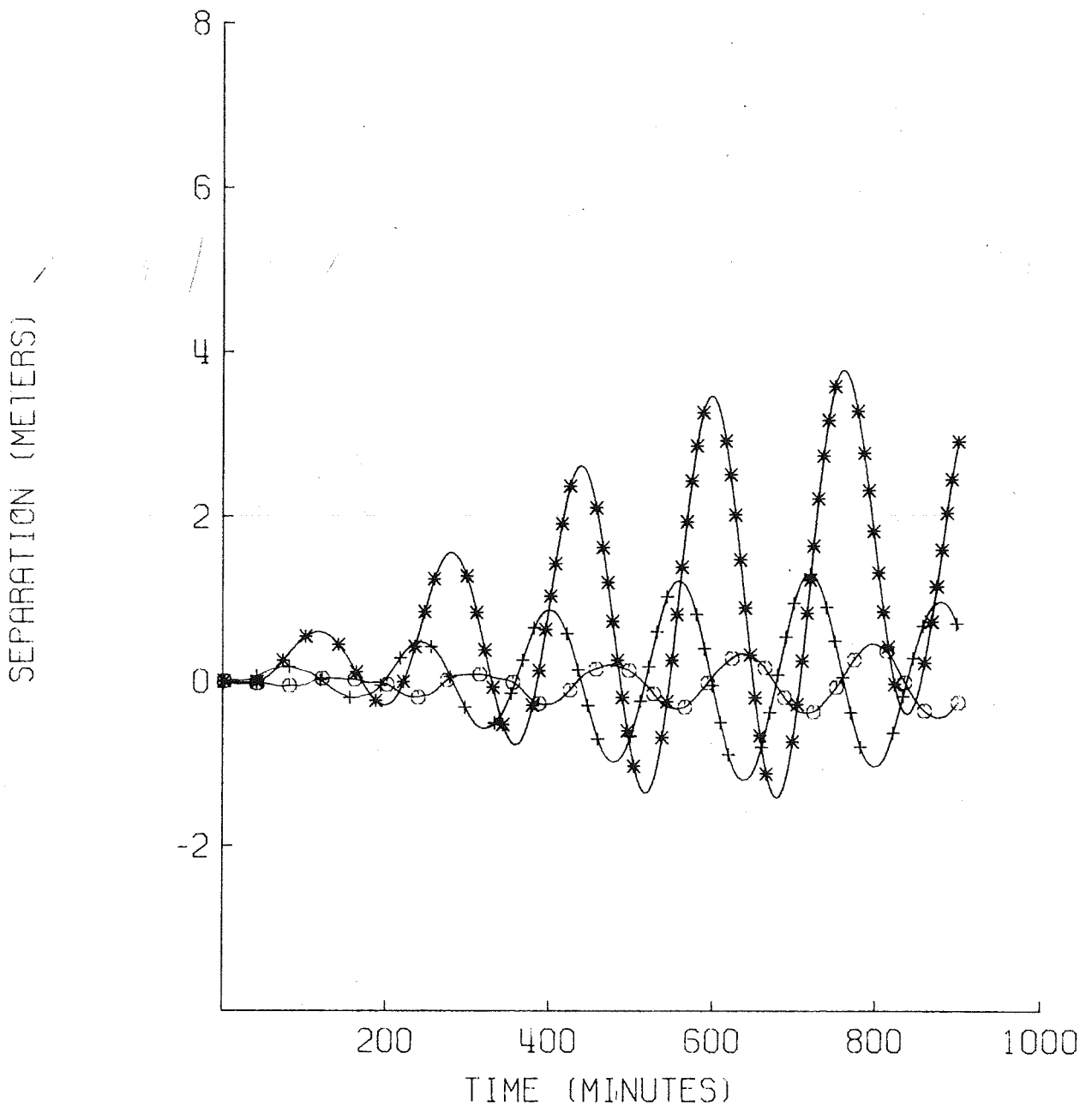


160 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9762.8046

RUN FOR S(9 , 1) = -.0966
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK

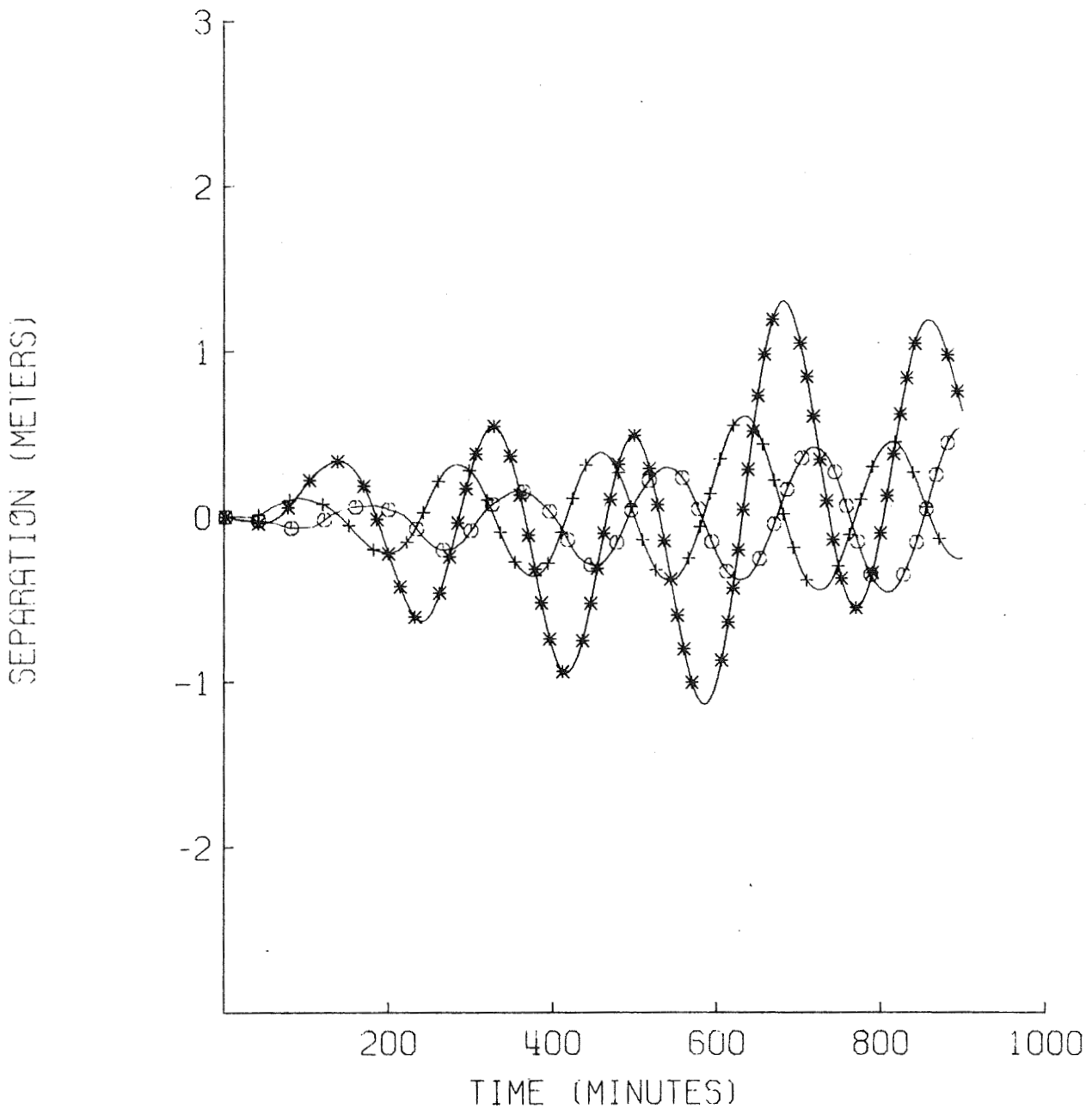


180 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	10550.3009

RUN FOR S(9 , 1) = -.0966
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



200 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	11328.7310

RUN FOR S(9 , 1) = -.0966
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

