

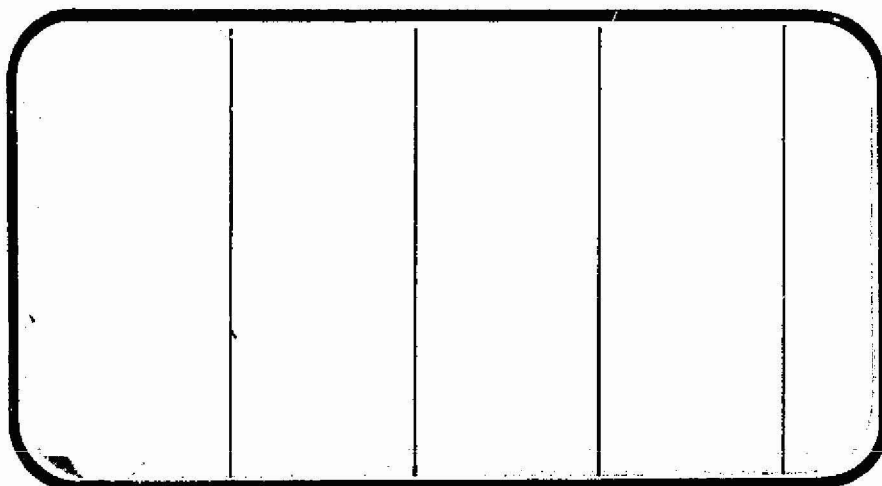


NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

(NASA-CR-151037) RESULTS OF INVESTIGATIONS
CONDUCTED IN THE LARC 8-FOOT TRANSONIC
PRESSURE TUNNEL USING THE 9.610-SCALE 72-015
MODEL OF THE SPACE SHUTTLE INTEGRATED
VEHICLE (IA93) (Chrysler Corp.) 575 p

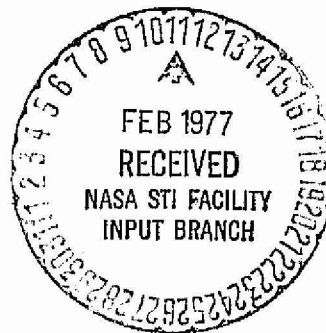
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION



CHRYSLER
CORPORATION

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VOLUME 1 OF 2

RESULTS OF INVESTIGATIONS CONDUCTED IN THE
LaRC 8-FOOT TRANSONIC PRESSURE TUNNEL
USING THE 0.010-SCALE 72-OTS MODEL OF THE
SPACE SHUTTLE INTEGRATED VEHICLE (IA93)

by

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Prepared under NASA Contract Number NAS9-13247

by

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for

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Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: LaRC 8' TPT-749
NASA Series Number: IA93
Model Number: 72-OTS
Test Dates: May 10 through May 14, 1976
Occupancy Hours: 80

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ABSTRACT

This report documents the test procedures, history, and data from Wind Tunnel Test IA93, conducted in the NASA Langley Research Center's 8-foot Transonic Pressure Tunnel, May 10 through May 14, 1976.

Test IA93 was an aero-loads investigation on the updated configuration-5 space shuttle launch vehicle at Mach numbers from 0.600 to 1.205. Six-component vehicle forces and moments, base and sting-cavity pressures, elevon hinge moments, wing-root bending and torsion moments, and normal shear force data were obtained. Full simulation of updated vehicle protruberances and attach hardware was employed.

This test was one of a series of three (3) programs run consecutively: IA94A (UPWT leg #1), IA94B (UPWT leg #2), and IA93 (8' TPT).

Various elevon deflection angles were tested with two different forward orbiter-to-external-tank attach-strut configurations. The entire model 72-OTS was supported by means of a balance mounted in the orbiter through its base and suspended from a sting.

ABSTRACT (Concluded)

This report consists of 2 volumes:

Volume 1--plotted coefficient data;

Volume 2--tabulated data.

The tabulated IA93 data comprises:

- (a) Raw wind tunnel data (RJJOXX, SJJOXX, TJJOXX data sets),
- (b) Interpolated Mach, alpha, and beta data (FJJOXX, IJJOXX, MJJOXX data sets, corrected for base cavity and base pressure effects),
- (c) Data from item (b) elevon interpolated (MJJAXX, MJJEXX data sets).

The plotted coefficient data presented in this report represents the elevon interpolated data (item (c)).

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SCHEDULE OF COEFFICIENTS PLOTTED:

- 3
- A) C_{N_F} , C_{A_F} , C_{M_F} , $C_{A_{E_0}}$, $C_{A_{E_S}}$, $C_{A_{E_T}}$ VERSUS α
 - B) C_Y , C_D (BODY), C_L (BODY) VERSUS α
 - C) C_{N_W} , C_{B_W} , C_{T_W} VERSUS α
 - D) $C_{H_{E_I}}$, $C_{H_{E_0}}$ VERSUS α

NOMENCLATURE

<u>Plot Symbol</u>	<u>Mnemonic</u>	<u>Definition</u>
A		Total vehicle axial-force, lbs.
A _{BF}	ABF	Body flap planform area, ft ²
A _{BO}	ABO	Orbiter base area, ft ²
A _{BS}	ABS	SRB base area, ft ²
A _{BT}	ABT	ET base area, ft ²
A _{CO}	ACO	Orbiter sting-cavity area, ft ²
A _U		Uncorrected total vehicle axial-force, lbs.
BM _W		Bending moment at Y _{WRC} , in-lb.
BM _{W1}		Bending moment at inboard wing-root bending gauge, in-lb.
BM _{W2}		Bending moment at outboard wing-root bending gauge, in-lb.
b _W		Wing reference span, in.
C _A	CA	Total vehicle axial-force coefficient
C _{AB}	CAB	Total vehicle base axial-force coefficient
C _{ABO}	CABO	Orbiter base axial-force coefficient
C _{ABS}	CABS	Solid rocket booster base axial-force coefficient
C _{ABT}	CABT	External tank base axial-force coefficient
C _{LU}	CLU	Uncorrected total vehicle lift coefficient

NOMENCLATURE (Continued)

<u>Plot Symbol</u>	<u>Mnemonic</u>	<u>Definition</u>
C_{A_T}	CAF	Total vehicle forebody axial-force coefficient
C_{D_U}	CDU	Uncorrected total vehicle drag coefficient
C_{A_U}	CAU	Uncorrected total vehicle axial-force coefficient
C_{B_W}	CBW	Wing-root bending-moment coefficient
$C_{H_{E_I}}$	CHEI	Inboard elevon hinge-moment coefficient
$C_{H_{E_O}}$	CHEO	Outboard elevon hinge-moment coefficient
$C_{H_{E_T}}$	CHEI	Total elevon hinge-moment coefficient
C_m	CLM	Total vehicle pitching-moment coefficient
C_{m_B}	CLMB	Total vehicle base pitching-moment coefficient
$C_{m_{B_O}}$	CLMBO	Orbiter base pitching-moment coefficient
$C_{m_{B_F}}$	CLMBF	Orbiter body flap upper surface pitching-moment coefficient
C_{m_T}	CLMF	Total vehicle forebody pitching-moment coefficient
C_{m_U}	CLMU	Uncorrected total vehicle pitching-moment coefficient
$C_{N(BODY)}$	CYN	Total vehicle yawing-moment coefficient, body axis
C_N	CN	Total vehicle normal-force coefficient
C_{N_B}	CNB	Total vehicle base normal-force coefficient
$C_{N_{B_O}}$	CNBO	Orbiter base normal-force coefficient

NOMENCLATURE (Continued)

<u>Plot Symbol</u>	<u>Mnemonic</u>	<u>Definition</u>
$C_{N_{BF}}$	CNBF	Orbiter body flap upper surface normal-force coefficient
C_{N_T}	CNF	Total vehicle forebody normal-force coefficient
C_{N_U}	CNU	Uncorrected total vehicle normal-force coefficient
C_{N_W}	CNW	Normal-force coefficient for wing panel
$C_{P_{B_i}}$	CPBi	Base pressure coefficient at Station i (i = 1 to 8)
L/D _U	L/DU	Uncorrected total vehicle lift to drag ratio
$C_{P_{BF}}$	CPBF	Body flap surface-pressure coefficient
$C_{P_{B_0}}$	CPB0	Orbiter base-pressure coefficient
l_{BF}	LBF	Longitudinal body flap transfer distance, in.
$C_{P_{BS}}$	CPBS	SRB base-pressure coefficient
$C_{P_{BT}}$	CPBT	BT base-pressure coefficient
$A_{B_{OMS}}$	ABOMS	OMS pod base area, ft ²
$C_{P_{C_j}}$	CPCj	Sting-cavity pressure coefficient at Station j
$C_{P_{C_0}}$	CPC0	Orbiter sting-cavity pressure coefficient
C_{T_W}	CTW	Wing-root torsion-moment coefficient
C_Y	CY	Total vehicle side-force coefficient
$C_{\xi}(\text{BODY})$	CBL	Total vehicle rolling-moment coefficient, body axis

NOMENCLATURE (Continued)

<u>Plot Symbol</u>	<u>Mnemonic</u>	<u>Definition</u>
\bar{c}_W	LREF	Mean wing reference chord, in.
\bar{c}_E	CE	Mean elevon reference chord, in.
D_1		Lateral distance from electrical center of inboard wing-root flexion gauge to wing-root flexion reference buttoplane, Y_{WRC} , in.
D_2		Lateral distance from electrical center of outboard wing-root flexion gauge to wing-root flexion reference buttoplane, Y_{WRC} , in.
ET		External tank
G_3		Longitudinal distance from electrical center of wing-root torsion gauge to wing-root torsion reference station, X_{WRC} , in.
h_{BZ}	HBZ	Vertical transfer distance from orbiter base area centroid to MRP, in.
HM_{EI}	HMEI	Inboard elevon hinge moment, in-lb.
HM_{EO}	HMEO	Outboard elevon hinge moment, in-lb.
i_b	IB	Orbiter base average inclination angle, deg.
i_m		Incidence angle of orbiter fuselage reference plane with respect to the ET fuselage reference plane; varies with attach structure AT130, deg.
l		Total vehicle rolling-moment, in-lb.
l_B	BREF	Body reference length, in.
l_{BX}	LBX	Longitudinal transfer distance from orbiter base area centroid to MRP, in.
m		Total vehicle pitching-moment, in-lb.
m_U		Uncorrected total vehicle pitching-moment, in-lb.
M	MACH	Tunnel freestream Mach number

NOMENCLATURE (Continued)

<u>Plot Symbol</u>	<u>Mnemonic</u>	<u>Definition</u>
n		Total vehicle yawing-moment, in-lb.
N		Total vehicle normal-force, lb.
N _U		Uncorrected total vehicle normal-force, lb.
N _W		Normal force on wing panel, lb.
P _{B1}		Base pressure, psia.
P _{C1}		Sting-cavity pressure, psia.
P _T	PT	Tunnel freestream total pressure, psia.
P _∞	P	Tunnel freestream static pressure, psia.
q	Q(PSF)	Tunnel freestream dynamic pressure, psfa.
Re/ft	RN/L	Tunnel freestream unit Reynolds number, per foot
S _E	SE	Elevon reference area, ft ²
S _W	SREF	Wing reference area, ft ²
SRB	SRB	Solid rocket booster
TM _W		Torsion moment at X _{WRC} , in-lb.
TM _{W3}		Torsion moment at wing-root torsion gauge, in-lb.
T _T	TT	Tunnel freestream total temperature, °R
T _∞	T	Tunnel freestream static temperature, °R
X _{BRC}		Balance moment reference center station, in.
X _{MRC}	XMRP	Vehicle reference center station, in.
X _O	XO	Orbiter longitudinal station, in.
X _S	XS	SRB longitudinal station, in.

NOMENCLATURE (Continued)

<u>Plot Symbol</u>	<u>Mnemonic</u>	<u>Definition</u>
X _T	XT	ET longitudinal station, in.
X _{WRC}		Wing-root torsion reference station, in.
Y		Total vehicle side-force, lb.
Y _{BRC}		Balance moment reference center buttoplane, in.
Y _{MRC}	YMRP	Vehicle moment reference center buttoplane, in.
Y _O	YO	Orbiter lateral coordinate, in.
Y _S	YS	SRB lateral coordinate, in.
Y _T	YT	ET lateral coordinate, in.
Y _{WRC}		Wing-root bending reference buttoplane, in.
Z _{BRC}		Balance moment reference center waterplane, in.
Z _{MRC}	ZMRP	Vehicle moment reference center waterplane, in.
Z _O	ZO	Orbiter vertical coordinate, in.
Z _S	ZS	SRB vertical coordinate, in.
Z _T	ZT	ET vertical coordinate, in.
α	ALPHA	Model angle-of-attack, deg.
α _U		Uncorrected model angle-of-attack, deg.
β	BETA	Model angle-of-sideslip, deg.
β _U		Uncorrected model angle-of-sideslip, deg.
δ _{BF}	BDFLAP	Body flap setting, deg.
δ _{ET_L}	ELV-LI	Left-hand inboard elevon setting, deg.
δ _{ET_LU}	ELVIC	Unloaded left-hand inboard elevon setting, deg.

NOMENCLATURE (Concluded)

<u>Plot Symbol</u>	<u>Mnemonic</u>	<u>Definition</u>
δ_{EIR}	ELV-RI	Right-hand inboard elevon setting, deg.
δ_{EIRU}		Unloaded right-hand inboard elevon setting, deg.
δ_{EOL}	ELV-LO	Left-hand outboard elevon setting, deg.
δ_{EOLU}	ELVOC	Unloaded left-hand outboard elevon setting, deg.
δ_{EOR}	ELV-RO	Right-hand outboard elevon setting, deg.
δ_{EORU}		Unloaded right-hand outboard elevon setting, deg.
δ_R	RUDDER	Rudder setting, deg.
δ_{SB}	SPDBRK	Speedbrake setting, deg.

SUBSCRIPTS

B	base
BF	body flap
C	cavity
E	elevon
F	forebody
I	inboard
L	left
O	Orbiter, outboard
R	right
S, s	SRB
SB	speedbrake
T	external tank, total
U	uncorrected
W	wing
∞	static

REMARKS

This test program (also tests IA94A and IA94B) proceeded without difficulty, and practically all data were acceptable for analysis and presentation.

Again, as in the UPWT tests (IA94A and B), all main-balance force and moment data were excellent, along with base and sting-cavity pressure coefficients. Elevon hinge moments were obtained without problem, also. Wing-root bending-moments, torsional-moments, and normal-shear forces were corrected for thermal-drift effects following the test and additional calibrations.

Most notable in this transonic testing, however, were the effects of shock-reflection patterns on elevon hinge-moment data. Data recorded for Mach numbers between 0.96 and 1.15 have been carefully edited by Langley Research Center test engineering personnel to eliminate questionable data in this Mach-regime. Further investigations on all transonic integrated-vehicle data from previous tests, e.g., IA135-A, B, C at ARC 11' UPWT, have been carried out to determine sting effects on such data as a result of this test's output.

CONFIGURATIONS INVESTIGATED

The 72-OTS model used in this test was a 0.010-scale replica of the updated vehicle-5 launch configuration of the space shuttle without main propulsion system nozzle simulation. The configuration-140C wing was employed in place of the standard -140A/B wing for instrumentation purposes. Figure 2a shows the launch vehicle configuration. Figure 2b shows the orbiter configuration.

Full protuberance simulation on the external oxygen/hydrogen tank and the two solid rocket boosters was included, based primarily upon the B revision of Interface Control Document 2-00001. Figures 2c and 2d show the ET and SRB configurations.

The forward orbiter/external tank attach-hardware was designated AT130. AT130 was a close simulation of the actual vehicle-5 fixtures.

Elevons were the only control surfaces deflected during the test. Rudder, speedbrake, and body flap were maintained at 0° settings. Control surface deflection sign convention is defined in Figure 1b.

The entire vehicle was suspended from a balance/strut assembly fitted into the orbiter fuselage through its base region, at all test conditions and configurations.

The model was tested with and without base pressure instrumentation manifolds and tubing installed. Figure 2e shows the base pressure tap locations.

The 140A/B orbiter model is designated as "O" in Table II and in

CONFIGURATIONS INVESTIGATED (Continued)

the data. It was constructed with the following components:

<u>Component</u>	<u>Description</u>
O	140A/B/C orbiter
B ₂₆	Orbiter fuselage
C ₉	Canopy
E ₅₂	Elevons
F ₁₀	Body flap
M ₁₆	OMS pods
N ₈₉	OMS nozzles
R ₅	Rudder
V ₈	Vertical tail
W ₁₂₇	Wing

The modified vehicle-5 external tank model, designated as "T", was comprised of the following components:

<u>Component</u>	<u>Description</u>
AT ₂₈	Attach structure
AT ₃₀	Attach structure
AT ₃₁	Attach structure
AT ₁₃₁	Attach structure
FL ₁₀	LH ₂ feedline
FL ₁₁	LO ₂ feedline
FR ₁₀	Fairing
PT ₂₃	LO ₂ recirculation line

CONFIGURATIONS INVESTIGATED (Continued)

<u>Component</u>	<u>Description</u>
PT25	Aft electrical line
PT26	LO ₂ pressure line
PT29	Forward electrical conduit
PT33	LH ₂ pressure line
PT39	ET nose probe
T35	Modified Vehicle-5 external tank fuselage

The modified vehicle-5 solid rocket booster model, designated "S", consisted of the following components:

<u>Component</u>	<u>Description</u>
FR ₁₄	ET nose cable fairing
FR ₁₅	ET nose fairing for PT ₃₉
FR ₁₆	LO ₂ feedline (FL ₁₁) fairing
FR ₁₇	LO ₂ antigeyser-line (PT ₂₃) fairing
FR ₁₈	Aft electrical-conduit (PT ₂₅) fairing
FR ₁₉	LH ₂ pressure-line (PT ₃₃) fairing
N ₁₀₆	SRB nozzles
PS ₂₀	Electrical tunnel
PS ₂₃	Forward separation motors
PS ₂₆	Aft attach ring, SRB
PS ₂₇	SRM nozzle actuator struts
PS ₂₈	Aft separation motor fairing
PS ₂₉	Tiedown struts

CONFIGURATIONS INVESTIGATED (Concluded)

<u>Component</u>	<u>Description</u>
PS ₃₀	APV exhaust outlets
PS ₃₁	Command antennae
PS ₃₂	Data capsule and camera
PS ₃₃	3 intermediate structural rings
PS ₃₄	Aft cable housing
PS ₃₅	Aft structural ring
PS ₃₆	Aft separation motors
S ₂₄	Modified vehicle-5 solid rocket booster fuselage

Also tested was:

AT₁₃₀ Forward O/T attach structure,

Detailed model dimensional data are given in Table III. Figure 2 presents sketches of the model. Figure 3 presents a photograph of the model.

INSTRUMENTATION

The 72-OTS model employed during this test program was outfitted for measurement of left-hand inboard and outboard elevon hinge moments, right-hand wing-root bending and torsion moments and shear force, total-vehicle six-component forces and moments, and base and sting-cavity pressures.

Standard strain-gauge beam instrumentation was used for the elevon and wing-panel data. The LRC #840 1.435-inch balance, installed in the orbiter, was employed for total-vehicle forces and moments. Separate differential pressure transducers were used to measure the eight (8) base and sting-cavity pressures, distributed on the Orbiter, External Tank, and left-hand Solid Rocket Booster.

Figure 2e shows the base pressure tap locations.

TEST FACILITY DESCRIPTION

NASA/Langley Research Center 8-Foot Transonic Pressure Tunnel is an air-medium facility capable of attaining continuously variable Mach numbers from 0.20 to 1.30. It is a single-return, closed-circuit tunnel having controlled stagnation temperature, total pressure, and dew-point temperature. The test section is 7.1 feet square. Reynolds numbers are variable from $0.30 \times 10^6/\text{foot}$ to $7.00 \times 10^6/\text{foot}$, depending on Mach number and tunnel total-pressure limitations. Models are supported in the test section by a sting-sector system, but wall-mounting is possible. Schlieren photography is available for flow and shock-wave studies.

DATA REDUCTION

Model force and pressure data were reduced to coefficient form in both the body axis and stability-axis systems. Standard NASA/LaRC wind tunnel methods were used as required to maintain compatibility with the Chrysler Corporation/DATAMAN format. A final data-tape was submitted to DATAMAN after test completion.

Body-axis data were corrected for base, cavity, and surface-pressure effects, as follows:

$$1) \quad C_{AF} = C_{AJ} - C_{ARO} - C_{ABT} - 2C_{ABS}$$

where

$$C_{ABO} = -C_{PBO} \left(\frac{A_{BO}}{S_W} \right) - C_{PCO} \left(\frac{A_{CO}}{S_W} \right)$$

$$C_{ABT} = -C_{PBT} \left(\frac{A_{BT}}{S_W} \right)$$

$$C_{ABS} = -C_{PBS} \left(\frac{A_{BS}}{S_W} \right)$$

$$2) \quad C_{NF} = C_N - C_{NBO} - C_{NBF}$$

where

$$C_{PB2} = C_{PBF}$$

$$C_{NBF} = -C_{PB2} \left(\frac{A_{BF}}{S_W} \right)$$

$$C_{NBO} = -C_{PBO} \left(\frac{A_{BO} - A_{BOMS}}{S_W} \right) \tan i_B - C_{PCO} \left(\frac{A_{CO}}{S_W} \right) \tan i_B$$

$$3) \quad C_{mF} = C_m + C_{mBO} + C_{mBF}$$

where

$$C_{mBO} = C_{NBO} \left(\frac{l_{BX}}{l_B} \right) - C_{ABO} \left(\frac{h_{BZ}}{l_B} \right)$$

$$C_{mBF} = C_{NBF} \left(\frac{l_{BF}}{l_B} \right)$$

DATA REDUCTION (Continued)

Inboard and outboard elevon panel hinge-moment coefficients were computed as follows:

$$C_{H_{EI}} = \frac{HM_{EI}}{qS_E c_E}$$

$$C_{H_{EO}} = \frac{HM_{EO}}{qS_E c_E}$$

Right-wing exposed-panel bending and torsional moments, bending and torsional moment coefficients, and normal force were computed as follows:

$$N_W = \frac{(BM_{W1} - BM_{W2})}{(D1 - D2)}$$

$$TM_W = TM_{W3} + N_W G_3$$

$$BM_W = \frac{BM_{W1} + BM_{W2} - N_W (D1 + D2)}{2}$$

$$C_{N_W} = \frac{N_W}{qS_W}$$

$$C_{B_W} = \frac{BM_W}{qS_W b_W}$$

$$C_{T_W} = \frac{TM_W}{qS_W c_W}$$

Left-hand inboard and outboard elevon deflection angles were corrected for elevon-deflection-due-to-load as follows:

$$\delta_{EI_L} = \delta_{EI_{LU}} + HM_{EI} \left(\delta_{EI_L} / HM_{EI} \right)$$

$$\delta_{EO_L} = \delta_{EO_{LU}} + HM_{EO} \left(\delta_{EO_L} / HM_{EO} \right)$$

DATA REDUCTION (Continued)

where:

$$\left(\frac{\delta_{E_{IL}}}{HM_{E_I}} \right) = \text{deg/in-lb calibration of the inboard elevon hinge-moment beam}$$

$$\left(\frac{\delta_{E_{OL}}}{HM_{E_O}} \right) = \text{deg/in-lb calibration of the outboard elevon hinge-moment beam}$$

Elevon deflection angles, measured with no hinge-moment acting on them, differed from nominal values as follows:

NOMINAL δ_E , deg.	ACTUAL MEASURED δ_E , DEG.			
	LEFT OUTBOARD SURFACE	LEFT INBOARD SURFACE	RIGHT INBOARD SURFACE	RIGHT OUTBOARD SURFACE
-10	-9.537	--	--	-9.604
-5	-4.720	--	--	-4.027
0	0.000	0.000	0.000	0.000
2	3.647	--	--	1.982
4	5.039	--	--	3.969
8	--	7.665	7.385	--
9	10.436	--	--	9.905
10	--	10.203	9.110	--
12	--	12.081	10.999	--
14	15.778	--	--	14.467

Positions in the above array where values are not given represent deflection angles not used in this test.

DATA REDUCTION (Continued)

The following reference dimensions and constants were used for data reduction (lengths are given in inches, areas in square feet, and angles in degrees):

<u>Symbol</u>	<u>Model Scale</u>	<u>Full Scale</u>
ABF	0.0143	142.60
ABO	0.0270	269.70
ABOMS	0.0123	122.60
ABS	0.0236	236.46
ABT	0.0605	604.80
ACO	0.0167	167.00
bW	9.367	936.680
σ_E	0.907	90.700
σ_W	4.748	474.800
D1	- .3272	--
D2	- .8185	--
G3	+1.1700	--
hBZ	3.365	336.500
iB	14.750	14.750
i_{mAT130}	.133	.133
l_B	12.903	1290.300
l_{BF}	13.297	1329.70
l_{BX}	12.630	1263.00
S_E	0.0210	210.00

DATA REDUCTION (Continued)

<u>Symbol</u>	<u>Model Scale</u>	<u>Full Scale</u>
S_W	0.2690	2690.00
X_{BRC}	18.177	1817.700
X_{MRC}	9.760	976.000
X_{WRC}	20.480	2048.000
Y_{BRC}	0.000	0.000
Y_{MRC}	0.000	0.000
Y_{WRC}	1.050	105.000
Z_{BRC}	7.265	726.500
Z_{MRC}	4.000	400.000
$(\delta_{EIL}/HMEI)$	0.47513°/in-lb(+HM)	--
	0.20625°/in-lb(-HM)	--
$(\delta_{EOL}/HMEO)$	0.36667°/in-lb(+HM)	--
	0.18333°/in-lb(-HM)	--

The wind tunnel coefficient data presented in this report have been corrected for base cavity and base pressure effects. These data have also been interpolated versus Mach number, angle-of-attack, and angle-of-side-slip. Data sets 1 and 60 could not be interpolated versus these variables and therefore these interpolated data sets are not presented in this report.

The following coefficients were requested for additional interpolation versus elevon deflection angles (ELV-LI, ELV-LO), to the nominal values (see Table II):

DATA REDUCTION (Concluded)

<u>INPUT</u> <u>DATA SETS</u>	<u>COEFFICIENTS</u>						
FJJOXX	CNW	CBW	CTW				
IJJOXX	CABO	CABT	CABS	CAF	CNF	CLMF	
MJJOXX	CYN	CBL	CY	CHEI	CHEO	<u>ELV-LI</u>	<u>ELV-LO</u>

These coefficients data were combined to form the following data sets:

<u>OUTPUT</u> <u>DATA SETS</u>	<u>COEFFICIENTS</u>									
MJJAXX	CNW	CBW	CTW	CYN	CBL	CY	CHEI	ELV-LI	CHEO	ELV-LO
MJJBXX	CAF	CNF	CLMF	CABO	CABT	CABS	CHEI	ELV-LI	CHEO	ELV-LO

Data sets 63-71 and data at Mach 0.6 could not be elevon interpolated due to limited data. Also, due to data limitations, data sets 12-16 (Mach numbers 1.15 and 1.205), could not be elevon interpolated.

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

TABLE I.

TEST : I 193		DATE : 6/7/76	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.600	$3.16 \times 10^7 / \sqrt{P}$	2.90	120
↓	4.48	4.12	↓
0.900	3.97	4.93	↓
0.960	4.04	5.24	↓
0.975	2.04	2.66	↓
↓	4.09	5.32	↓
↓	4.81	6.28	↓
0.980	4.11	5.34	↓
0.990	4.13	5.39	↓
1.050	4.19	5.65	↓
1.120	4.23	5.89	↓
1.150	4.26	5.98	↓
1.205	4.31	6.12	↓

BALANCE UTILIZED: TLC #810

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>800 lb</u>	<u> </u>	<u> </u>
SF	<u>250 lb</u>	<u> </u>	<u> </u>
AF	<u>125 lb</u>	<u> </u>	<u> </u>
PM	<u>1600 in-lb</u>	<u> </u>	<u> </u>
RM	<u>500 in-lb</u>	<u> </u>	<u> </u>
YM	<u>500 in-lb</u>	<u> </u>	<u> </u>

COMMENTS:

TABLE II.

TEST: IA93 (LARC 8' TPT 749)		DATA SET/RUN NUMBER COLLATION SUMMARY							DATE: 9/30/76					
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)						
		α	β	$S_{E\perp}$	$S_{E\phi}$									
3 J001	$\phi TS + AT/30$	A	0	10	9		1	1						
02			-6				5	4	11	16	27	30		
03			-4				5	3	10	15	26	29		
04			0				5	2	7	12	23	28		
05			4				5	5	8	13	24	31		
06			6		Y		5	6	9	14	25	32		
07			-6		4		5	55	35	40	50	45		
08			-4				5	54	34	39	49	44		
09			0				5	53	33	38	48	43		
10			4				5	56	36	41	51	46		
11			6		Y		5	57	37	42	52	47		
12			-6		14		5	80	75	65	76	60		
13			-4				5	79	74	64	69	59		
14			0				5	78	73	63	68	58		
15			4				5	81	76	66	71	61		
Y 16	Y	Y	6	Y	Y		5	82	77	67	72	62		

TEST RUN NUMBERS

25

(R) CPB1, CPB2, CPB3, CPB4,5, CPB6, CPB7, CPB8, CPC ϕ , CAU, BETA, MACH, ALPHA, 10
 (S) CYN, CBL, CY, CLMU, CHEI, CHE ϕ , ρ (PSF), BETA, CNU, MACH, ALPHA, 9
 (T) RN/L, L/DU, BETA, CLU, CDU, CNW, CBW, CTW, MACH, ALPHA, 8
 TYPE OF DATA α OR β A) $\alpha = -8^\circ, -6^\circ, -4^\circ, -2^\circ, 0^\circ, 2^\circ, 4^\circ$ COEFFICIENT SCHEDULES IDVAR (1) IDVAR (2) NDV
 SCHEDULES

TABLE II. (Continued)

TEST: IAGI (LARC 8' TPT 749)		DATA SET/RUN NUMBER COLLATION SUMMARY						DATE: 9/30/76					
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)						
		α	β	S_{EI}	$\delta_{E\phi}$		0.6	0.9	0.975	1.15	1.205		
(3) JJ017	$\phi TS + AT130$	A	-6	10	-5	2				90	85		
18			-4			2				89	84		
19			0			2				88	83		
20			4			2				91	86		
21			6	Y		2				92	87		
22			-6	12		2				100	95		
23			-4			2				99	94		
24			0			2				98	93		
25			4			2				101	96		
26			6		V	2				102	97		
27			-6		4	4	120	115	110	105			
28			-4			4	119	114	109	104			
29			0			4	118	113	108	103			
30			4			4	121	116	111	106			
Y 31	Y	Y	6	Y	Y	4	122	117	112	107			

TEST RUN NUMBERS

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TYPE OF DATA	COEFFICIENT SCHEDULES	IDVAR (1)	IDVAR (2)	NOV
α OR β	_____	_____	_____	_____
SCHEDULES	_____	_____	_____	_____

TABLE II. (Continued)

TEST: JA93(LARC 8' TPB 749)		DATA SET/RUN NUMBER COLLATION SUMMARY						DATE: 9/30/76						
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)							
		α	β	δEI	$\delta E\theta$		0.6	0.9	0.925	1.15	1.205			
R) JJ047	$\phi T\theta + AT130$	A	-6	8	4	4		185	180	175	170			
48			-4			4		184	179	174	169			
49			0			4		183	178	173	168			
50			4			4		186	181	176	171			
51			6		Y	4		187	182	177	172			
52			-6		-5	2				195	190			
53			-4			2				194	189			
54			0			2				193	188			
55			4			2				196	191			
56			6		Y	2				197	192			
57			-6		9	5	217	200	212	206	222			
58			-4			5	216	199	211	205	221			
59			0			5	215	198	210	204	220			
60			0			2		201		207				
61			4			5	218	202	213	208	223			
Y 62	Y	Y	6	Y	Y	5	219	203	214	209	224			

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TEST RUN NUMBERS

TYPE OF DATA
 α OR β
SCHEDULES

COEFFICIENT SCHEDULES

IDVAR (1) IDVAR (2) NDV

TABLE II. (Concluded)

TEST : IA93(LARC 8' TPT 749)		DATA SET/RUN NUMBER COLLATION SUMMARY						DATE : 9/30/76					
DATA SET IDENTIFIER	CONFIGURATION	SCHED.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)						
		α	β	δ_{EI}	$\delta_{E\phi}$		0.6	0.9	0.975	1.15	1.205		
63	$\phi TS + AT130 + TS1$	A	-6	10	9	3			249	247	245		
64	↓		0			3			248	246	244		
65	$\phi TS + AT130 + TS1 - TUBES$		-6			3			255	253	251		
66	↓		0			3			254	252	250		
67	$\phi TS + AT130 + TS2$		-6			1			241				
68			0			1			240				
69			6			1			229				
70			-6			1			243				
71	↓	Y	0	Y	Y	1			242				

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TEST RUN NUMBERS

TYPE OF DATA
 α OR β
 SCHEDULES

COEFFICIENT SCHEDULES

IDVAR (1) IDVAR (2) NDV

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT₂₈

GENERAL DESCRIPTION: Rear orbiter to ET attach structure (left-hand and right-hand) (two members)

MODEL SCALE: 0.010

DRAWING NUMBER: VL78-000063, VL78-000062B

DIMENSIONS: in.		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Member #1	X _O	1317.00	13.170
	Y _O	- 96.50 (LH)	- 0.965
		96.50 (RH)	0.965
	Z _O	267.50	2.675
	X _T	2058.0	20.580
	Y _T	- 96.50 (LH)	- 0.965
		96.50 (RH)	0.965
	Z _T	515.50	5.155
Member #2	X _O	1317.0	13.170
	Y _O	- 96.50 (LH)	- 0.965
		96.50 (RH)	0.965
	Z _O	267.50	2.675
	X _T	1872.0	18.720
	Y _T	- 125.68 (LH)	- 1.257
		125.68 (RH)	1.257
	Z _T	504.5	5.045
Diameter, In.	#1	11.5	0.115
	#2	15.5	0.155

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₀

GENERAL DESCRIPTION: Forward SRB to ET attach structure (left-hand and right-hand)

MODEL SCALE: 0.010

DRAWING NUMBER: VL78-000066, Martin-Marietta 82600204300, VC78-000002

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Attach point, in.	X _T	985.675	9.856
	Y _T	- 172.50 (LH) + 172.50 (RH)	- 1.725 + 1.725
	Z _T	00	0.0
	X _S	442.675	4.427
	Y _S	80.0	0.800
	Z _S	0.0	0.0
	X _O	244.675	2.447
	Y _O	- 184.5 + 184.5	- 1.845 + 1.845
	Z _O	0.0	0.0

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₁

GENERAL DESCRIPTION: Rear ET to SRB attach structure (LH and RH), 3 members

MODEL SCALE: 0.010

DRAWING NUMBER: VL78-000063, VL78-000062B, VL78-000066, VC78-000002

DIMENSIONS: in.		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Member #1	X _T	2058.00	20.580
	Y _T	- 171.50 (LH)	- 1.715
		171.50 (RH)	1.715
	Z _T	457.00	4.570
	X _S	1511.0	15.110
	Y _S	53.24	0.532
	Z _S	57.0	0.570
Member #2	X _T	2058.0	20.580
	X _T	- 163.85	- 1.639
	Z _T	449.81	4.498
	X _S	1511.0	15.110
	Y _S	76.56	0.766
	Z _S	15.73	0.157
Member #3	X _T	2058.00	20.580
	X _T	- 161.72	- 1.617
	Z _T	343.0	3.430
	X _S	1511.0	15.110
	Y _S	53.24	0.532
	Z _S	- 57.00	- 0.570

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₃₀

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 members structure).

MODEL SCALE: 0.010

DRAWING NUMBER: SS-A01692

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Orbiter attach point:	X _O	388.9	3.889
	Y _O	0 (LH)	0
		0 (RH)	0
	Z _O	283.8	2.838
	X _T	1129.9	11.299
	Y _T	0 (LH)	0
		0 (RH)	0
	Z _T	620.3	6.203
Tank attach point:	X _T	388.9	3.889
	Y _T	42.75 (LH)	.4275
		42.75 (RH)	.4275
	Z _T	227.5	2.275
	X _O	1129.9	11.299
	Y _O	42.75 (LH)	.4275
		42.75 (RH)	.4275
	Z _O	564.0	5.640

TABLE III. MODEL DIMENSIONAL DATA (Continued)

<u>Component</u>	<u>Definition</u>	
AT ₁₃₁	Rear Orbiter/External Tank attach structure per ICD-2-00001, Rev. B, model dwg. SS-A01668-3. This attach structure is a connecting link between R. H. AT ₂₈ and External Tank.	
	Located at:	
	<u>Model Scale-In.</u>	<u>Full Scale-In.</u>
	X _T = 20.580	X _T = 2058.00

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: BODY - B₂₆

GENERAL DESCRIPTION: Configuration 140A/B orbiter fuselage

NOTE: B₂₆ is identical to B₂₄ except underside of fuselage has been repaired to accept W₁₁₆.

MODEL SCALE: 0.010 MODEL DRAWING: SS-A00147, Release 12

DRAWING NUMBER: VL70-000143B, -000200, -000205, -006089, -000145
 VL70-000140A, -000140B

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (OML: Fwd Sta. X ₀ = 235), In.	1293.3	12.933
Length (IML: Fwd Sta. X ₀ = 238), In.	1290.3	12.903
Max Width (@ X ₀ = 1528.3), In.	264.0	2.640
Max Depth (@ X ₀ = 1464), In.	250.0	2.500
Fineness Ratio	0.264	0.264
Area - Ft ²		
Max. Cross-Sectional	340.88	0.034

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: CANOPY - C₉

GENERAL DESCRIPTION: Configuration 3A. Canopy used with fuselage B₂₆.

MODEL SCALE: 0.0100 MODEL DRAWING: SS-A00147, Release 12

DRAWING NUMBER: VL70-000143A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length ($X_0 = 434.643$ to 578), In.	143.357	1.434
Max Width (@ $X_0 = 513.127$), In.	152.412	1.524
Max Depth (@ $X_0 = 485.0$), In.	25.000	0.250

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ELEVON, E52

GENERAL DESCRIPTION: Elevon for Configuration 140C. Hingeline at $X_0 = 1387$, elevon split line $X_0 = 312.5$, 6.0" gaps, beveled edges, and centerbodies.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000140C, -006089, -006092, SS-A0137

DIMENSIONS: (Data for one side)	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	210.0	0.0210
Span (equivalent) - In.	349.2	3.492
Inb'd equivalent chord - In.	118.0	1.180
Outb'd equivalent chord - In.	55.19	0.552
Ratio movable surface chord/ total surface chord		
At inb'd equiv. chord	0.2096	0.2096
At outb'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.0	0.0
Trailing Edge	-10.056	-10.056
Hingeline	0.00	0.00
Area Moment (Normal to hinge line)-ft ³	1587.25	.001587
Mean Aerodynamic Chord, In.	90.7	0.907
Hingeline dihedral (origin at $Z_0 = 261.3509$), deg.	5.228986	5.228986

TABLE VII. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: BODY FLAP - F_{10}

GENERAL DESCRIPTION: Configuration 140C body flap. Hingeline located at $X_0 = 1532$, $Z_0 = 287$.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000140C, VL70-355114

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length ($X_0 = 1525.5 - X_1 = 1613$), In.	87.50	0.875
Max Width (@ L.E., $X_0 = 1525.5$), In.	256.00	2.560
Max Depth ($X_0 = 1532$), In.	19.798	0.198
Fineness Ratio		
Area - Ft ²		
Max. Cross-Sectional (@ H.L.)	35.196	0.0035
Planform	135.00	0.014
Wetted		
Base ($X_0 = 1613$), In. ²	4.89	0.0005

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: FEEDLINE - FL₁₀

GENERAL DESCRIPTION: LH₂ feedline on upper left-hand side of T₃₅.

MODEL SCALE: 0.010

DRAWING NUMBER: VL78-000063, VL78-000062B

DIMENSIONS: in.		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	2071.5	20.715
	Y _T	- 70.0	- 0.700
	Z _T	573.934	5.739
Tailing edge at:	X _T	2081.8	20.818
	Y _T	- 70.0	- 0.700
	Z _T	584.059	5.841
Line diameter (17.0 I.D.)		18.160	0.182

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: FEEDLINE - FL₁₁

GENERAL DESCRIPTION: LO₂ feedline on upper right-hand side of T₃₅.

MODEL SCALE: 0.010

DRAWING NUMBER: VL78-000063, VL78-000062B

DIMENSIONS: in.		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1000.667	10.007
	Y _T	70.00	0.700
	Z _T	564.340	5.643
Trailing edge at:	X _T	2071.5	20.715
	Y _T	70.00	0.700
	Z _T	573.934	5.739
Line diameter (17.0 I.D.)		18.16	0.182

Centerline of line located radially at $\phi = 203^{\circ}4'$.

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: FAIRING -FR₁₀

GENERAL DESCRIPTION: Umbilical door fairing between aft ET/orbiter
attach structure,

MODEL SCALE: 0.010

DRAWING NUMBER: VL78-000063, VL78-000062B, Martin-Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at	X _{TP}	2052.0	20.520
Length, In.		193.0	1.930
Width, In.		15.00	0.150

TABLE III. MODEL DIMENSIONAL DATA (Continued)

<u>Component</u>	<u>Definition</u>	
FR ₁₄	External Tank nose cable fairing per model dwg. SS-A01668-5 located at:	
	<u>Model Scale</u>	<u>Full Scale</u>
	X _T = 3.490→3.710, In.	X _T = 349.00→371.00, In.
	φ = 31.°31'	φ = 31.°31'
FR ₁₅	External Tank nose probe fairing per model dwg. SS-A01668-5 located at:	
	<u>Model Scale</u>	<u>Full Scale</u>
	X _T = 3.413→3.710, In.	X _T = 341.30→371.00, In.
FR ₁₆	External Tank LO ₂ feedline (F ₁₁) fairing per model dwg. SS-A01668-3 located at:	
	<u>Model Scale</u>	<u>Full Scale</u>
	X _T = 9.820→10.420, In.	X _T = 982.00→1042.00, In.

TABLE III. MODEL DIMENSIONAL DATA (Continued)

<u>Component</u>	<u>Definition</u>						
FR ₁₇	External Tank IO ₂ antigeysner line (PT ₂₃) fairing per model dwg. SS-A01668-3. Located at:						
	<table border="1"> <thead> <tr> <th><u>Model Scale</u></th> <th><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_T = 9.860→10.460, In.</td> <td>X_T = 986.00→1046.00, In.</td> </tr> <tr> <td>φ = 33°45'</td> <td>φ = 33°45'</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _T = 9.860→10.460, In.	X _T = 986.00→1046.00, In.	φ = 33°45'	φ = 33°45'
<u>Model Scale</u>	<u>Full Scale</u>						
X _T = 9.860→10.460, In.	X _T = 986.00→1046.00, In.						
φ = 33°45'	φ = 33°45'						
FR ₁₈	External Tank aft electrical conduit (PT ₂₅) fairing per model dwg. SS-A01668-3. Located at:						
	<table border="1"> <thead> <tr> <th><u>Model Scale</u></th> <th><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_T = 10.670→10.820, In.</td> <td>X_T = 1067.00→1082.00, In.</td> </tr> <tr> <td>φ = 37°30'</td> <td>φ = 37°30'</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _T = 10.670→10.820, In.	X _T = 1067.00→1082.00, In.	φ = 37°30'	φ = 37°30'
<u>Model Scale</u>	<u>Full Scale</u>						
X _T = 10.670→10.820, In.	X _T = 1067.00→1082.00, In.						
φ = 37°30'	φ = 37°30'						
FR ₁₉	External Tank LH ₂ pressure line (PT ₃₃) fairing per model dwg. SS-A01668-9. Located at:						
	<table border="1"> <thead> <tr> <th><u>Model Scale</u></th> <th><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_T = 10.600→11.269, In.</td> <td>X_T = 1060.00→1126.00, In.</td> </tr> <tr> <td>φ = 30°0'</td> <td>φ = 30°0'</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _T = 10.600→11.269, In.	X _T = 1060.00→1126.00, In.	φ = 30°0'	φ = 30°0'
<u>Model Scale</u>	<u>Full Scale</u>						
X _T = 10.600→11.269, In.	X _T = 1060.00→1126.00, In.						
φ = 30°0'	φ = 30°0'						

TABLE III. MODEL DIMENSIONAL DATA(Continued)

MODEL COMPONENT: OMS POD - M₁₆
 GENERAL DESCRIPTION: Configuration 140C orbiter OMS pod - short pod.
 MODEL SCALE: 0.010
 DRAWING NUMBER: VL70-008401, VL70-008410

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (OMS Fwd Sta. X ₀ = 1310.5), In.	258.50	2.585
Max Width (@ X ₀ = 1511), In.	136.8	1.368
Max Depth (@ X ₀ = 1511), In.	74.70	0.747
Fineness Ratio	2.484	2.484
Area - Ft ²		
Max. Cross-Sectional	58.864	0.0059

TABLE III. MODEL DIMENSIONAL DATA (Continued)

<u>Component</u>	<u>Definition</u>								
N ₈₉	Orbiter OMS nozzles located on OMS pods M ₁₆ per model dwg. SS-A01317-2.								
N ₁₀₆	Solid Rocket Booster nozzle located on SRB S ₂₄ per model dwg. SS-A01667-8. Located at:								
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Model Scale</u></th> <th style="text-align: left;"><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_s = 18.371→19.306, In.</td> <td>X_s = 1837.10→1930.60, In.</td> </tr> <tr> <td>Dia. = 1.479, In.</td> <td>Dia. = 147.85, In.</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _s = 18.371→19.306, In.	X _s = 1837.10→1930.60, In.	Dia. = 1.479, In.	Dia. = 147.85, In.		
<u>Model Scale</u>	<u>Full Scale</u>								
X _s = 18.371→19.306, In.	X _s = 1837.10→1930.60, In.								
Dia. = 1.479, In.	Dia. = 147.85, In.								
PS ₂₀	Solid Rocket Booster electrical conduit per model dwg. SS-A01667-12. Located at:								
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Model Scale</u></th> <th style="text-align: left;"><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_s = 4.424→18.577, In.</td> <td>X_s = 442.40→1857.70, In.</td> </tr> <tr> <td>ϕ = 90° LH</td> <td>ϕ = 90° RH</td> </tr> <tr> <td>180° LH</td> <td>180° LH</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _s = 4.424→18.577, In.	X _s = 442.40→1857.70, In.	ϕ = 90° LH	ϕ = 90° RH	180° LH	180° LH
<u>Model Scale</u>	<u>Full Scale</u>								
X _s = 4.424→18.577, In.	X _s = 442.40→1857.70, In.								
ϕ = 90° LH	ϕ = 90° RH								
180° LH	180° LH								
PS ₂₃	Solid Rocket Booster forward separation motors per model dwg. SS-A01667-42.								
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Model Scale</u></th> <th style="text-align: left;"><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_s = 2.854 and 2.973, In.</td> <td>X_s = 285.40 and 297.30, In.</td> </tr> <tr> <td>ϕ = 20°RH</td> <td>ϕ = 20°RH</td> </tr> <tr> <td>340°LH</td> <td>340°LH</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _s = 2.854 and 2.973, In.	X _s = 285.40 and 297.30, In.	ϕ = 20°RH	ϕ = 20°RH	340°LH	340°LH
<u>Model Scale</u>	<u>Full Scale</u>								
X _s = 2.854 and 2.973, In.	X _s = 285.40 and 297.30, In.								
ϕ = 20°RH	ϕ = 20°RH								
340°LH	340°LH								

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT : SRB Protuberance - PS₂₇
 GENERAL DESCRIPTION : SRM nozzle actuator struts (2)

 MODEL SCALE: 0.010

 DRAWING NUMBER : ICD-2-00001, Rev. B; SS-A01667, Rev. C

DIMENSIONS : inches	FULL SCALE	MODEL SCALE
Length	<u>21.25</u>	<u>0.213</u>
Width	<u>3.0</u>	<u>0.030</u>
Height/Depth	<u>4.890</u>	<u>0.049</u>
L. E. Location	<u>1839.137</u>	<u>18.391</u>
T. E. Location	<u>1860.387</u>	<u>18.604</u>
φ, Degrees	45	45
	<u>135</u>	<u>135</u>

TABLE III. MODEL DIMENSIONAL DATA (Continued)

<u>Component</u>	<u>Definition</u>								
PS ₂₆	Solid Rocket Booster aft attach ring per model dwg. SS-A01667-4 located at: <table border="0"> <tr> <td><u>Model Scale</u></td> <td><u>Full Scale</u></td> </tr> <tr> <td>$X_s = 15.110, \text{ In.}$</td> <td>$X_s = 1511.00, \text{ In.}$</td> </tr> </table>	<u>Model Scale</u>	<u>Full Scale</u>	$X_s = 15.110, \text{ In.}$	$X_s = 1511.00, \text{ In.}$				
<u>Model Scale</u>	<u>Full Scale</u>								
$X_s = 15.110, \text{ In.}$	$X_s = 1511.00, \text{ In.}$								
PS ₂₈	Solid Rocket Booster separation rocket motor fairings per model dwg. SS-A01667-38. Located on SRB skirt aft of rear structural ring at $\phi = 0 \rightarrow 36^\circ \text{ RH}$ $324^\circ \rightarrow 360^\circ \text{ LH} .$								
PS ₂₉	Solid Rocket Booster tiedown struts located on SRB skirt per model dwg. SS-A01667-30, located at: <table border="0"> <tr> <td><u>Model Scale</u></td> <td><u>Full Scale</u></td> </tr> <tr> <td>$X_s = 18.603 \rightarrow 19.306, \text{ In.}$</td> <td>$X_s = 1860.30 \rightarrow 1930.60, \text{ In.}$</td> </tr> <tr> <td>$\phi = 30^\circ, 150^\circ, 210^\circ, 330^\circ$</td> <td>$\phi = 30^\circ, 150^\circ, 210^\circ, 330^\circ$</td> </tr> </table>	<u>Model Scale</u>	<u>Full Scale</u>	$X_s = 18.603 \rightarrow 19.306, \text{ In.}$	$X_s = 1860.30 \rightarrow 1930.60, \text{ In.}$	$\phi = 30^\circ, 150^\circ, 210^\circ, 330^\circ$	$\phi = 30^\circ, 150^\circ, 210^\circ, 330^\circ$		
<u>Model Scale</u>	<u>Full Scale</u>								
$X_s = 18.603 \rightarrow 19.306, \text{ In.}$	$X_s = 1860.30 \rightarrow 1930.60, \text{ In.}$								
$\phi = 30^\circ, 150^\circ, 210^\circ, 330^\circ$	$\phi = 30^\circ, 150^\circ, 210^\circ, 330^\circ$								
PS ₃₀	Solid Rocket Booster auxiliary power unit exhaust outlets per model dwg. SS-A01667-36, located at: <table border="0"> <tr> <td><u>Model Scale</u></td> <td><u>Full Scale</u></td> </tr> <tr> <td>$X_s = 19.306, \text{ In.}$</td> <td>$X_s = 1930.60, \text{ In.}$</td> </tr> <tr> <td>$\phi = 30^\circ 30' \text{ RH}$</td> <td>$\phi = 30^\circ 30' \text{ RH}$</td> </tr> <tr> <td>$= 329^\circ 30' \text{ LH}$</td> <td>$= 329^\circ 30' \text{ LH}$</td> </tr> </table>	<u>Model Scale</u>	<u>Full Scale</u>	$X_s = 19.306, \text{ In.}$	$X_s = 1930.60, \text{ In.}$	$\phi = 30^\circ 30' \text{ RH}$	$\phi = 30^\circ 30' \text{ RH}$	$= 329^\circ 30' \text{ LH}$	$= 329^\circ 30' \text{ LH}$
<u>Model Scale</u>	<u>Full Scale</u>								
$X_s = 19.306, \text{ In.}$	$X_s = 1930.60, \text{ In.}$								
$\phi = 30^\circ 30' \text{ RH}$	$\phi = 30^\circ 30' \text{ RH}$								
$= 329^\circ 30' \text{ LH}$	$= 329^\circ 30' \text{ LH}$								

TABLE III. MODEL DIMENSIONAL DATA (Continued)

<u>Component</u>	<u>Definition</u>	
PS ₃₁	Solid Rocket Booster command antenna per model dwg. SS-A01667-28, located at:	
	<u>Model Scale</u>	<u>Full Scale</u>
	$X_g = 4.026 \rightarrow 4.526, \text{ In.}$	$X_g = 402.60 \rightarrow 452.60, \text{ In.}$
	$\phi = 0^\circ \ \& \ 180^\circ$	$\phi = 0^\circ \ \& \ 180^\circ$
PS ₃₂	Solid Rocket Booster data capsule and camera per model dwg. SS-A01667-26, located at:	
	<u>Model Scale</u>	<u>Full Scale</u>
	$X_g = 4.017 \rightarrow 4.402, \text{ In.}$	$X_g = 401.70 \rightarrow 440.20, \text{ In.}$
	$\phi = 90^\circ \text{ RH}$ $= 270^\circ \text{ LH}$	$\phi = 90^\circ \text{ RH}$ $= 270^\circ \text{ LH}$
PS ₃₃	Solid Rocket Booster 3 intermediate structural rings per model dwg. SS-A01667-8, located at:	
	<u>Model Scale</u>	<u>Full Scale</u>
	$X_g = 16.559, \text{ In.}$	$X_g = 1655.90, \text{ In.}$
	$= 17.319$	$= 1731.90$
	$= 17.760$	$= 1776.00$

TABLE III. MODEL DIMENSIONAL DATA (Continued)

<u>Component</u>	<u>Definition</u>								
PS ₃₄	<p>Solid Rocket Booster aft cable housing per model dwg. SS-A01667-12, located at:</p> <table border="1"> <thead> <tr> <th><u>Model Scale</u></th> <th><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>$X_g = 4.726 \rightarrow 18.554, \text{In.}$</td> <td>$X_g = 472.60 \rightarrow 1855.40, \text{In.}$</td> </tr> <tr> <td>$\phi = 90^\circ \text{ RH}$</td> <td>$\phi = 90^\circ \text{ RH}$</td> </tr> <tr> <td>$= 180^\circ \text{ LH}$</td> <td>$= 180^\circ \text{ LH}$</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	$X_g = 4.726 \rightarrow 18.554, \text{In.}$	$X_g = 472.60 \rightarrow 1855.40, \text{In.}$	$\phi = 90^\circ \text{ RH}$	$\phi = 90^\circ \text{ RH}$	$= 180^\circ \text{ LH}$	$= 180^\circ \text{ LH}$
<u>Model Scale</u>	<u>Full Scale</u>								
$X_g = 4.726 \rightarrow 18.554, \text{In.}$	$X_g = 472.60 \rightarrow 1855.40, \text{In.}$								
$\phi = 90^\circ \text{ RH}$	$\phi = 90^\circ \text{ RH}$								
$= 180^\circ \text{ LH}$	$= 180^\circ \text{ LH}$								
PS ₃₅	<p>Solid Rocket Booster aft structural ring per model dwg. SS-A01667-8, located at:</p> <table border="1"> <thead> <tr> <th><u>Model Scale</u></th> <th><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>$X_g = 18.371, \text{In.}$</td> <td>$X_g = 1837.10, \text{In.}$</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	$X_g = 18.371, \text{In.}$	$X_g = 1837.10, \text{In.}$				
<u>Model Scale</u>	<u>Full Scale</u>								
$X_g = 18.371, \text{In.}$	$X_g = 1837.10, \text{In.}$								
PS ₃₆	<p>Solid Rocket Booster aft separation motors located on aft SRB skirts per model dwg. SS-A01667-38. Located aft of SRB rear structural ring at $\phi = 0 \rightarrow 36^\circ \text{ RH}$ $= 324^\circ \rightarrow 360^\circ \text{ LH}.$</p>								

TABLE VII. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: LO_2 RECIRCULATION LINE - PT₂₃
 GENERAL DESCRIPTION: LO_2 recirculation line on right-hand upper side of
 T₃₅.
 MODEL SCALE: 0.010
 DRAWING NUMBER: VL78-000063, VL78-000062B, Martin-Marietta 82600207000

DIMENSIONS: in.		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1040.667	10.407
	Y _T	94.169	0.942
	Z _T	540.934	5.409
Trailing edge at:	X _T	2062.920	20.629
	Y _T	70.0	0.700
	Z _T	573.934	5.739
Line diameter, In.		4.0	0.040

Centerline of line located radially at $\phi = 213^{\circ}45'$.

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ELECTRICAL LINE - PT₂₅
 GENERAL DESCRIPTION: Right-hand aft electrical conduit line on T₃₅ with
 LH₂ pressure sensor line and IO₂ vent valve actuator line.
 MODEL SCALE: 0.010
 DRAWING NUMBER: VI78-000063, VI78-000062B, Martin-Marietta 82600207000

DIMENSIONS: in.		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1084.333	10.843
	Y _T	99.591	0.996
	Z _T	539.620	5.396
Trailing edge at:	X _T	2058.00	20.580
	Y _T	99.591	0.996
	Z _T	539.620	5.396
Line diameter		2.0 x 6.0	0.02x0.06
Centerline of line located radially at $\phi = 215.5^\circ$.			

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: LO₂ PRESSURE LINE - PT₂₆

GENERAL DESCRIPTION: LO₂ pressure line on the T₃₅

MODEL SCALE: 0.010

DRAWING NUMBER VL78-000063, VL78-000062B, Martin-Marietta 82600207000

DIMENSIONS: in.		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	360.733	3.607
	Y _T	15.145	.1515
	Z _T	407.718	4.077
Trailing edge at:	X _T	2083.5	20.835
	Y _T	63.25	0.633
	Z _T	609.0	6.090
Line diameter		2.0	0.020

Centerline of line located radially at $\phi = 207^\circ$.

TABLE III. MODEL DIMENSIONAL DATA (Continued)

<u>Component</u>	<u>Definition</u>						
PT ₂₉	External Tank fwd. electrical conduit per model dwg. SS-A01667-6. Located at:						
	<table border="0"> <thead> <tr> <th><u>Model Scale</u></th> <th><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_T = 3.607 → 8.600, In.</td> <td>X_T = 360.73 → 860.00, In.</td> </tr> <tr> <td>φ = Adjacent to PT₂₆</td> <td>φ = Adjacent to PT₂₆</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _T = 3.607 → 8.600, In.	X _T = 360.73 → 860.00, In.	φ = Adjacent to PT ₂₆	φ = Adjacent to PT ₂₆
<u>Model Scale</u>	<u>Full Scale</u>						
X _T = 3.607 → 8.600, In.	X _T = 360.73 → 860.00, In.						
φ = Adjacent to PT ₂₆	φ = Adjacent to PT ₂₆						
PT ₃₃	External Tank LH ₂ pressure line per model dwg. SS-A01668-9. Located at:						
	<table border="0"> <thead> <tr> <th><u>Model Scale</u></th> <th><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_T = 10.600 → 20.580, In.</td> <td>X_T = 1060.00 → 2058.00, In.</td> </tr> <tr> <td>φ = 330° 0'</td> <td>φ = 330° 0'</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _T = 10.600 → 20.580, In.	X _T = 1060.00 → 2058.00, In.	φ = 330° 0'	φ = 330° 0'
<u>Model Scale</u>	<u>Full Scale</u>						
X _T = 10.600 → 20.580, In.	X _T = 1060.00 → 2058.00, In.						
φ = 330° 0'	φ = 330° 0'						
PT ₃₉	External Tank nose probe per model dwg. SS-A01668-5. Located at:						
	<table border="0"> <thead> <tr> <th><u>Model Scale</u></th> <th><u>Full Scale</u></th> </tr> </thead> <tbody> <tr> <td>X_T = 3.225 → 3.413, In.</td> <td>X_T = 322.5 → 341.3, In.</td> </tr> <tr> <td>Max. Dia. = .069 in.</td> <td>Max. Dia. = 6.90 in.</td> </tr> </tbody> </table>	<u>Model Scale</u>	<u>Full Scale</u>	X _T = 3.225 → 3.413, In.	X _T = 322.5 → 341.3, In.	Max. Dia. = .069 in.	Max. Dia. = 6.90 in.
<u>Model Scale</u>	<u>Full Scale</u>						
X _T = 3.225 → 3.413, In.	X _T = 322.5 → 341.3, In.						
Max. Dia. = .069 in.	Max. Dia. = 6.90 in.						

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: RUDDER - R₅
 GENERAL DESCRIPTION: Configuration 140C orbiter rudder (identical to configuration 140A/B rudder)
 MODEL SCALE: 0.010
 DRAWING NUMBER: VL70-000146B, VL70-000095

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	100.15	0.010
Span (equivalent), In.	201.0	2.010
Inb'd equivalent chord, In.	91.585	0.916
Outb'd equivalent chord, In.	50.833	0.508
Ratio movable surface chord/total surface chord		
At inb'd equiv. chord	0.400	0.400
At outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Trailing edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Product of Area and \bar{c}) Ft ³	610.92	0.0006
Mean Aerodynamic Chord, In.	73.2	0.732

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR- S₂₄

GENERAL DESCRIPTION: Booster Solid Rocket - Modified Vehicle-5, per ICD-2-00001, Rev. B

DRAWING NUMBER: SS-A01690, SS-A01667

SCALE: 0.010

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Includes Nozzle) - in.	1789.6	17.896
Max. Width (Tank Dia.) - in.	150.0	1.500
Max. Depth (aft Shroud) - in.	208.0	2.08
Fineness Ratio	11.931	11.931
Area - Ft ²		
Max. Cross-Sectional	236.0	.02360
Planform		
Wetted		
Base		
WP of BSRM Centerline (Z _T) - in.	400.00	4.000
FS of BSRM Nose (X _T) - in.	200.00	2.000

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK T₃₅

GENERAL DESCRIPTION: Spike nose configuration, updated Vehicle-5

(Dimensions are to tank structural OML, TPS included.)

MODEL SCALE: 0.010

DRAWING NUMBER: VC78-000002A, ICD-2-00001, Rev. B, VC72-000002E

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length, In.	1852.500	18.525
Max Width, In.	336.000	3.360
Max Depth, In.	336.000	3.360
Fineness Ratio	5.513	5.513
Area - Ft ²		
Max. Cross-Sectional	615.752	.06158
Planform	--	--
Wetted	--	--
Base	604.806	.06048

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: VERTICAL - V₈
 GENERAL DESCRIPTION: Configuration 140A/B orbiter vertical tail
 MODEL SCALE: 0.010 MODEL DRAWING: SS-A00148, Release 6
 DRAWING NUMBER: VL70-000146A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo) - Ft ²		
Planform	413.253	0.041
Span (Theo) - In.	315.720	3.157
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees		
Leading Edge	45.00	45.00
Trailing Edge	26.2	26.2
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.500	2.685
Tip (Theo) WP	108.470	1.085
MAC	199.808	1.998
Fus. Sta. of .25 MAC	1463.50	14.635
W.P. of .25 MAC	635.522	6.355
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle - Deg.	10.0	10.0
Trailing Wedge Angle - Deg.	14.920	14.920
Leading Edge Radius	2.00	0.020
Void Area	13.17	0.001
Blanketed Area	0.0	0.0

TABLE III. MODEL DIMENSIONAL DATA (Concluded)

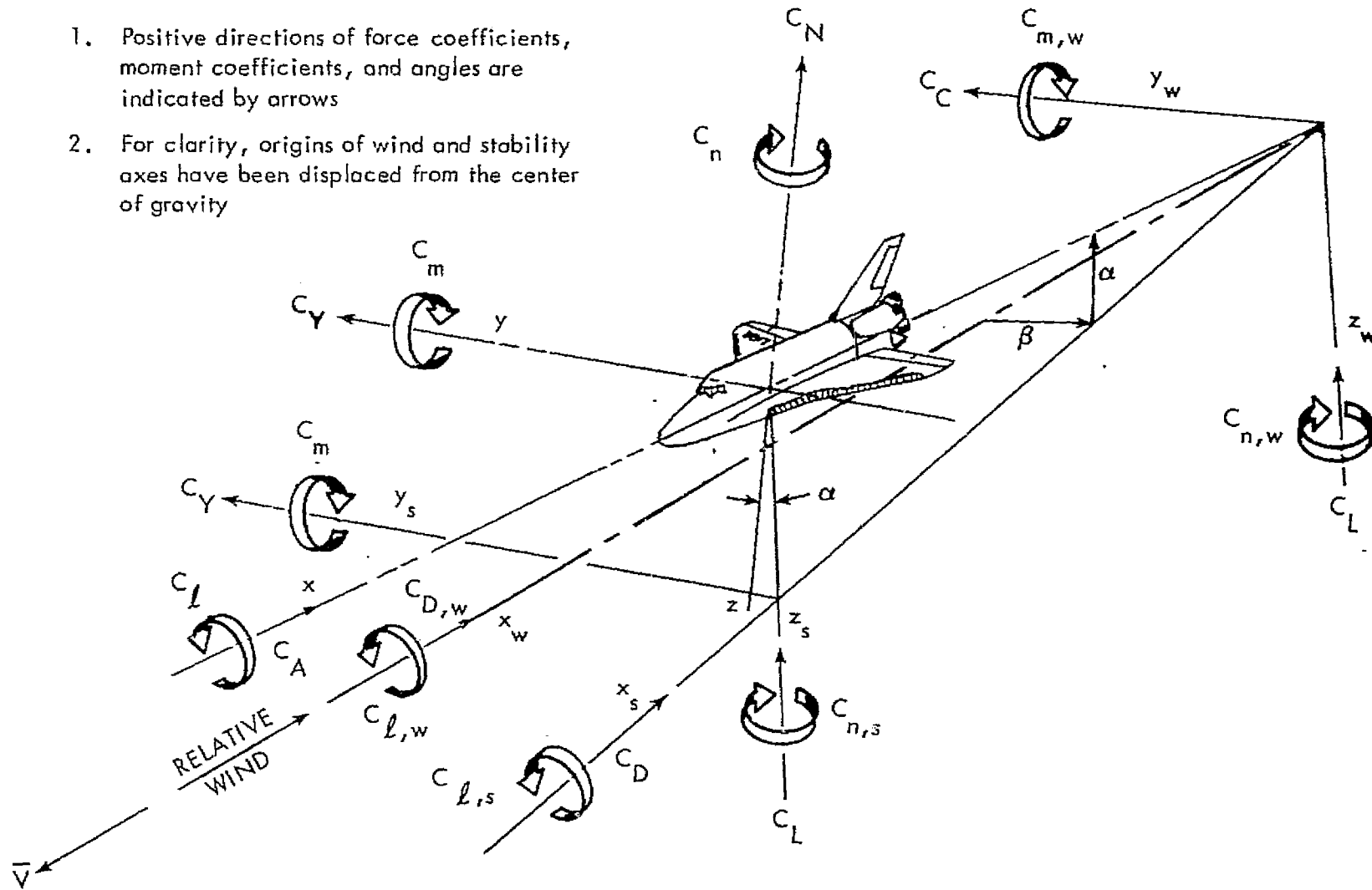
MODEL COMPONENT: WING-W₁₂₇
 GENERAL DESCRIPTION: Configuration 140C, orbiter wing, MCR 200-R4, similar to 140A/B wing W₁₁₆ but with refinements: improved wing-boot-midbody fairing (X₀ = 940 to X₀ = 1040); elevon split line relocated from Y₀ = 281 to Y₀ = 312.5. MODEL SCALE: 0.010 DWG. NO: VL70-000140C, -000200B
 DIMENSIONS:

	FULL SCALE	MODEL SCALE
<u>TOTAL DATA</u>		
Area (Theo.) Ft ²		
Planform	2690.00	0.2690
Span (Theo) In.	936.68	9.3668
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	3.000	3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	- 10.056	- 10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.24	6.892
Tip (Theo) B.P.	137.85	1.379
MAC	474.81	4.748
Fus. Sta. of .25 MAC	1136.83	11.368
W.P. of .25 MAC	290.58	2.906
B.L. of .25 MAC	182.13	1.821
<u>EXPOSED DATA</u>		
Area (Theo) Ft ²	1751.50	0.1752
Span (Theo) In. BP108	720.68	7.207
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	5.621
Tip 1.00 b/2	137.85	1.379
MAC	392.83	3.928
Fus. Sta. of .25 MAC	1185.98	11.860
W.P. of .25 MAC	294.30	2.943
B.L. of .25 MAC	251.77	2.518
Airfoil Section (Rockwell Mod NASA)XXXX-64		
Root b/2	0.113	0.113
Tip b/2	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area Ft ²	113.18	0.01132
Leading Edge Intersects Fus M.L. @ Sta	500.00	5.000
Leading Edge Intersects Wing @ Sta	1024.00	10.240

Notes:

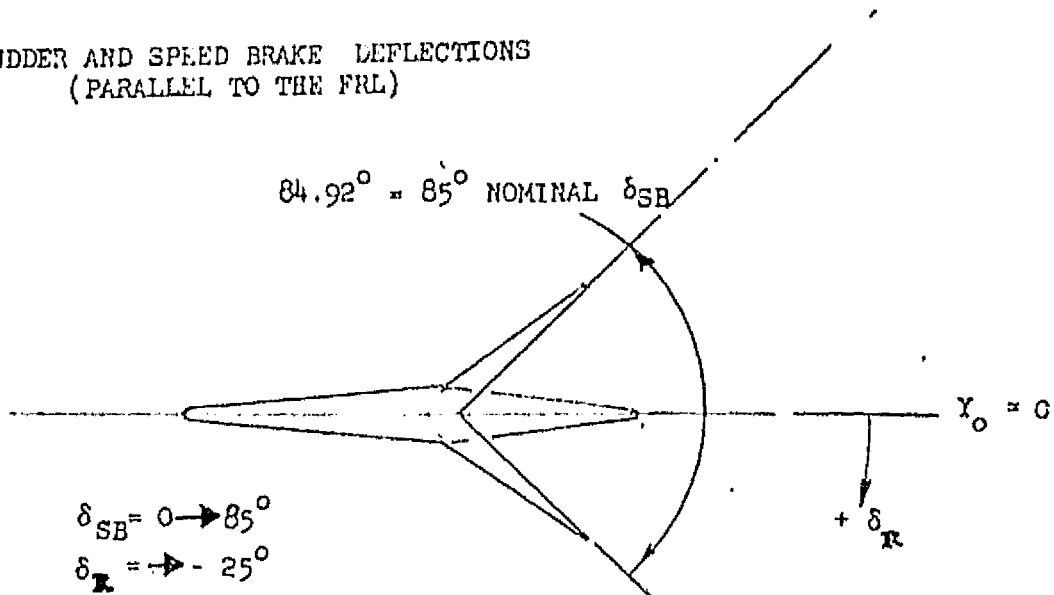
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

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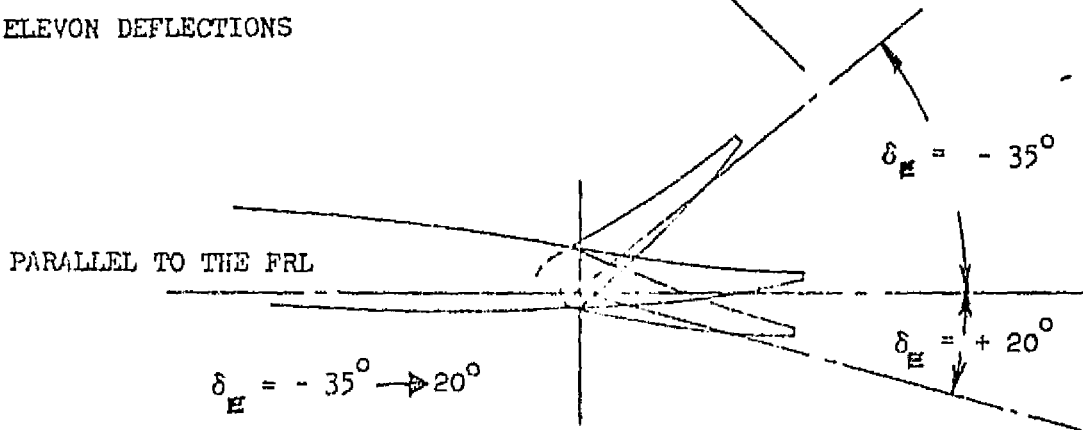


a. General
Figure 1. Axis Systems

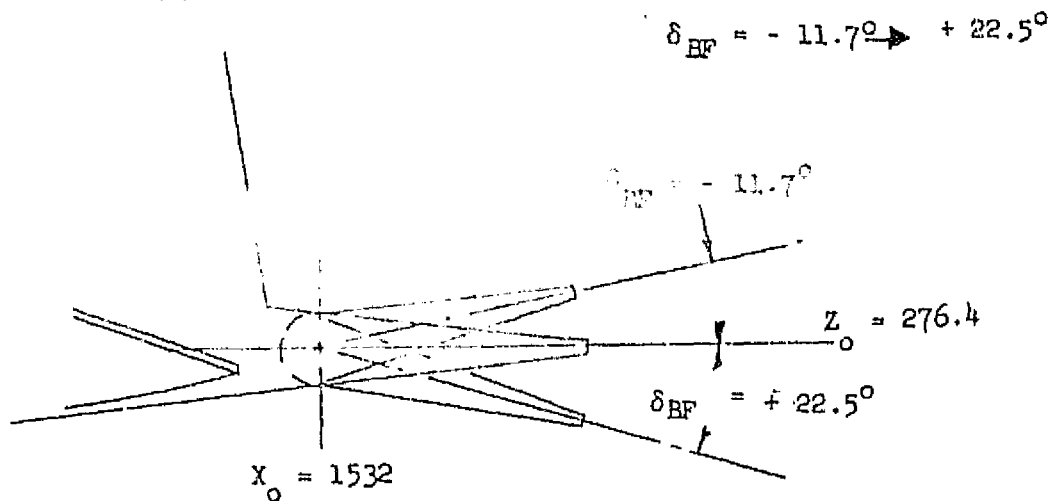
RUDDER AND SPEED BRAKE DEFLECTIONS
(PARALLEL TO THE FRL)



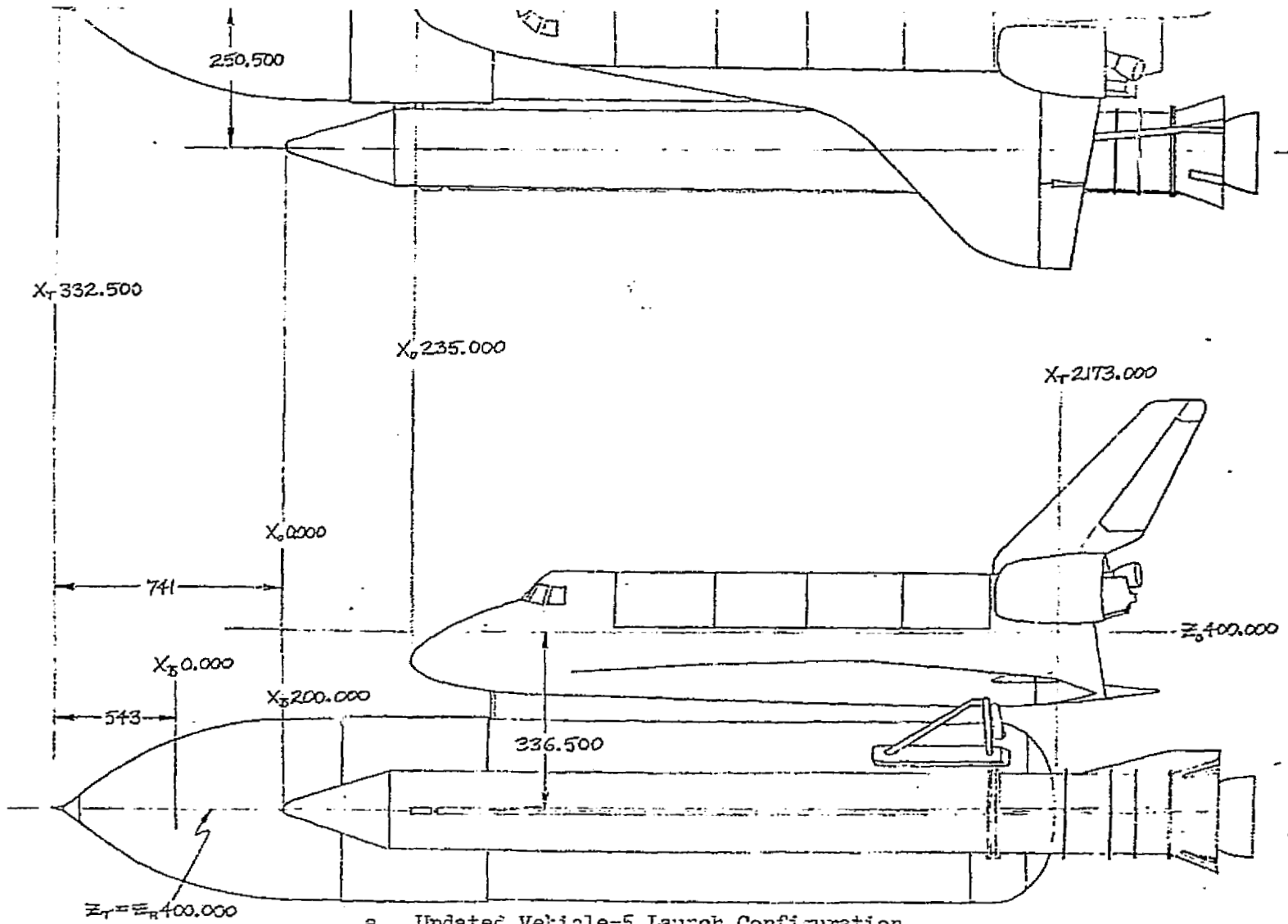
ELEVON DEFLECTIONS



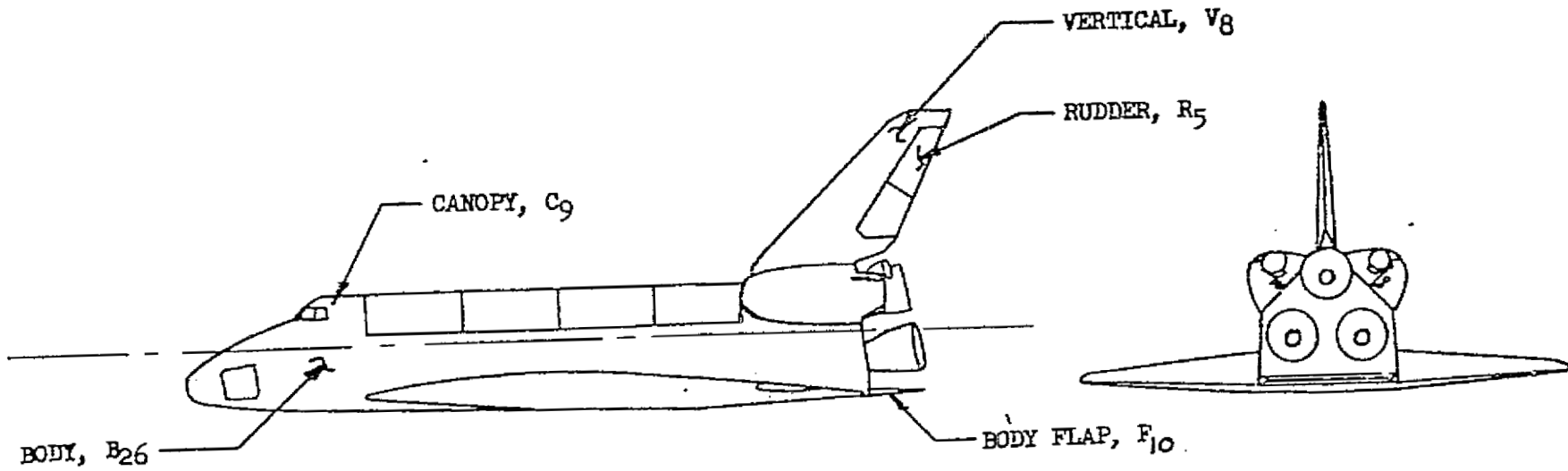
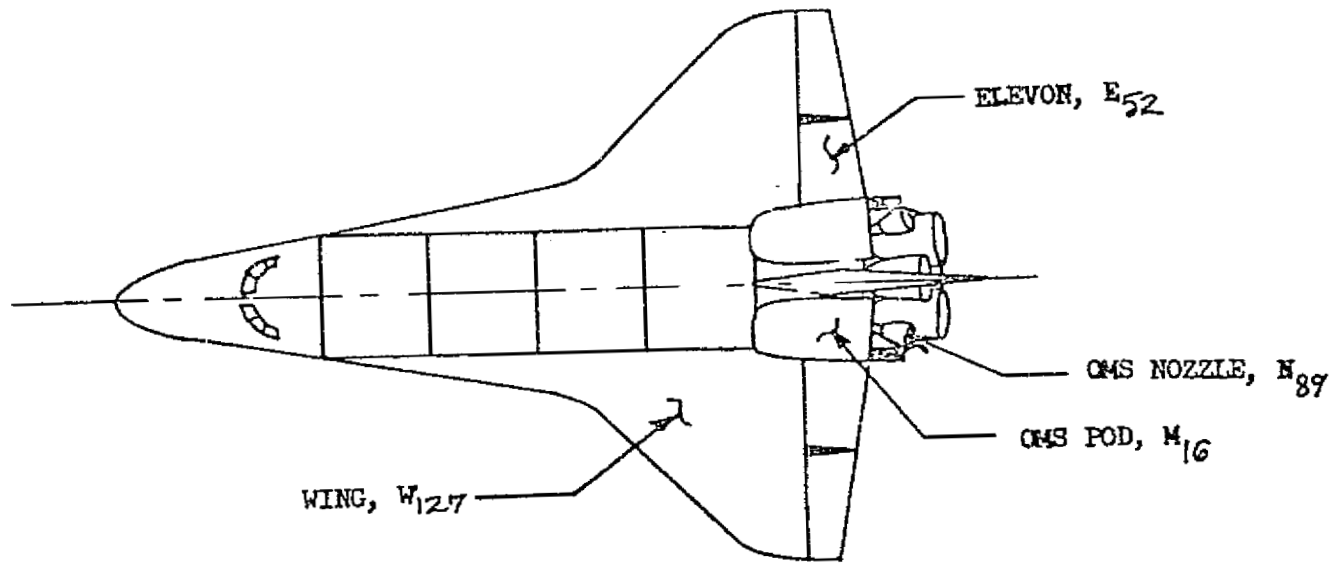
BODY FLAP DEFLECTIONS



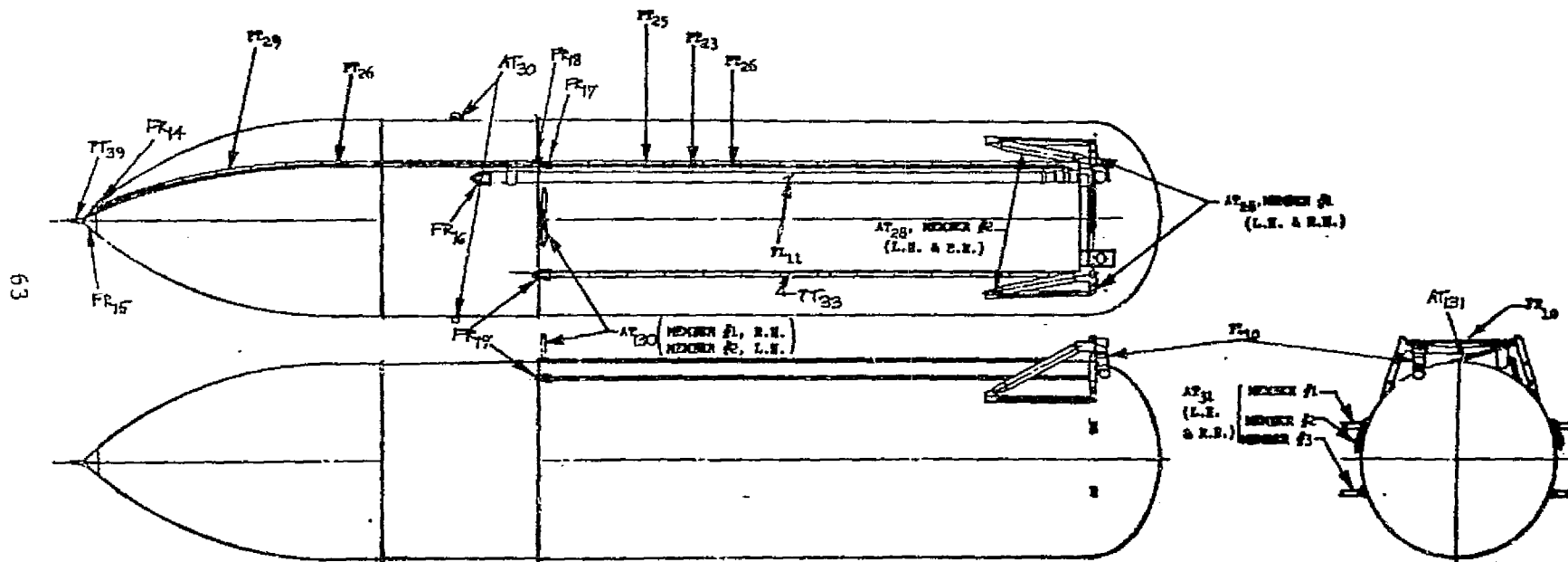
b. Control Surfaces
Figure 1. Continued.



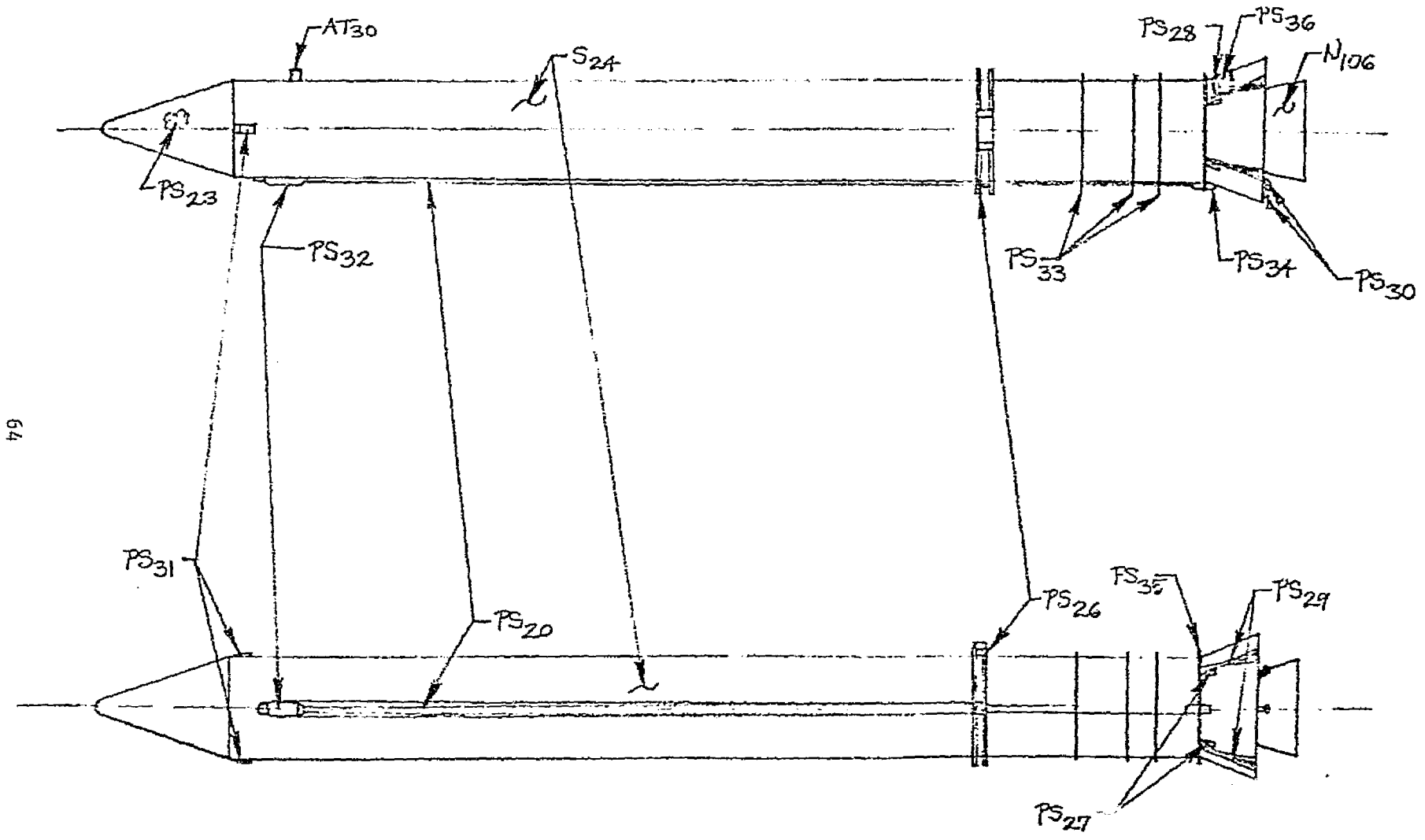
a. Updated Vehicle-5 Launch Configuration
Figure 2. Model sketches.



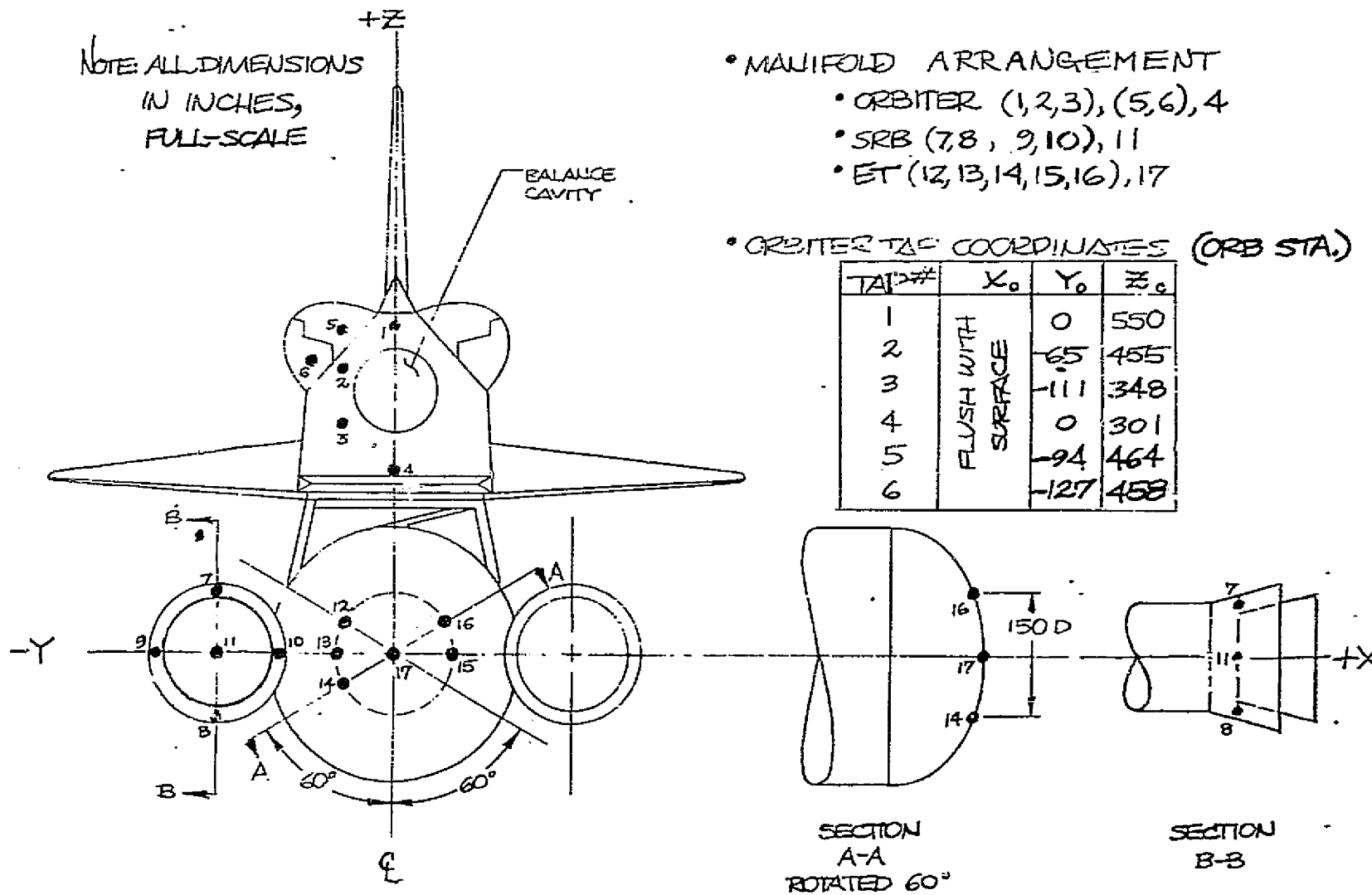
b. Orbiter
Figure 2. Continued.



c. External Tank
 Figure 2. Continued.



1. Solid Rocket Booster
Figure 2. Continued.



e. Base Pressure Tap Locations
Figure 2. Concluded.

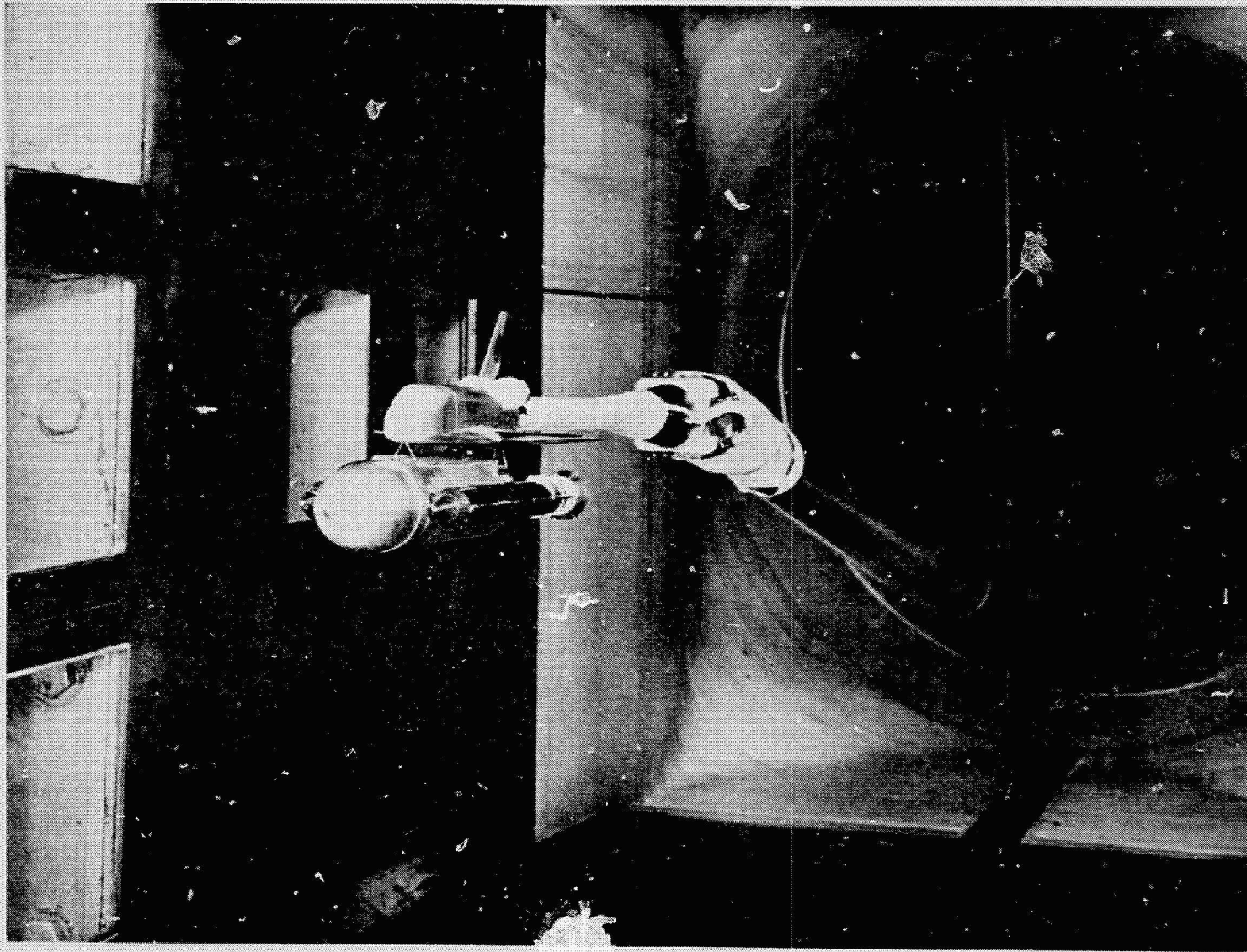


Figure 3. Model installation photograph.

DATA FIGURES

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ.FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. YZ
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YZ
								ZMRP	400.0000	IN. YZ
								SCALE	.0100	

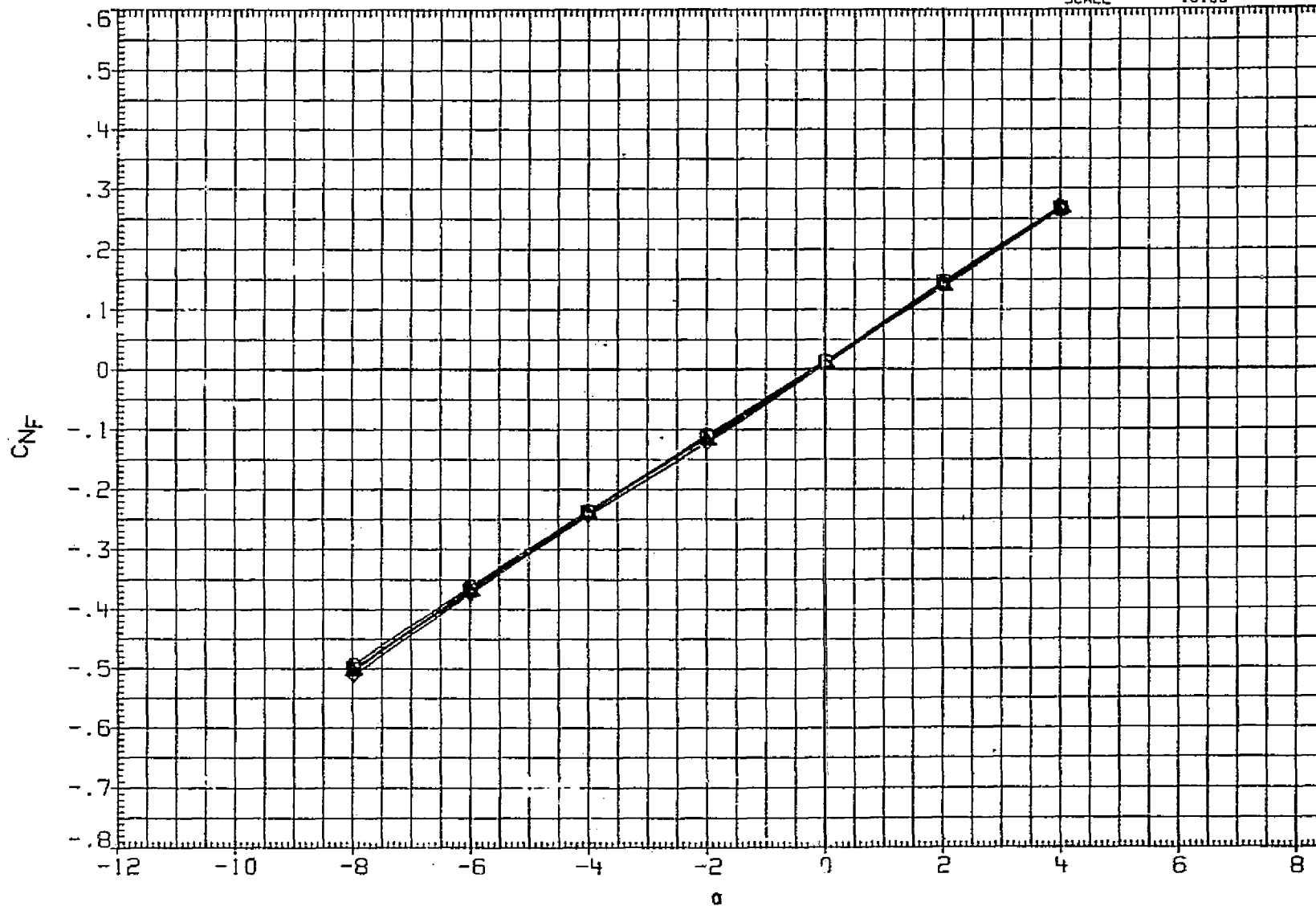


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

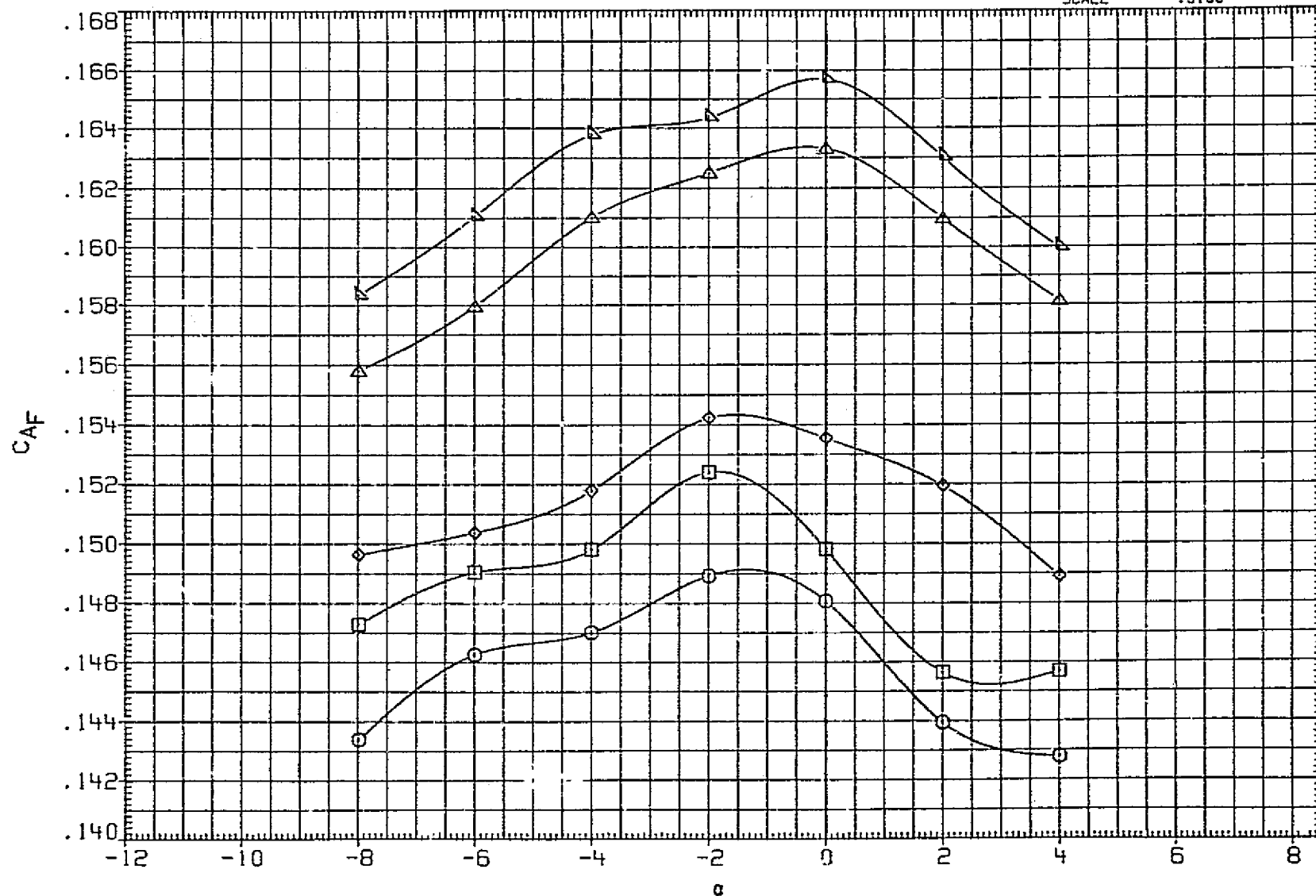


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RG	REFERENCE INFORMATION	
MJJB02	○ LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000 SQ.FT.
MJJB03	□ LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000 INCHES
MJJB04	◇ LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000 INCHES
MJJB05	△ LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000 IN. X1
MJJB06	▽ LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000 IN. Y1
							ZMRP	400.0000 IN. Z1
							SCALE	-0100

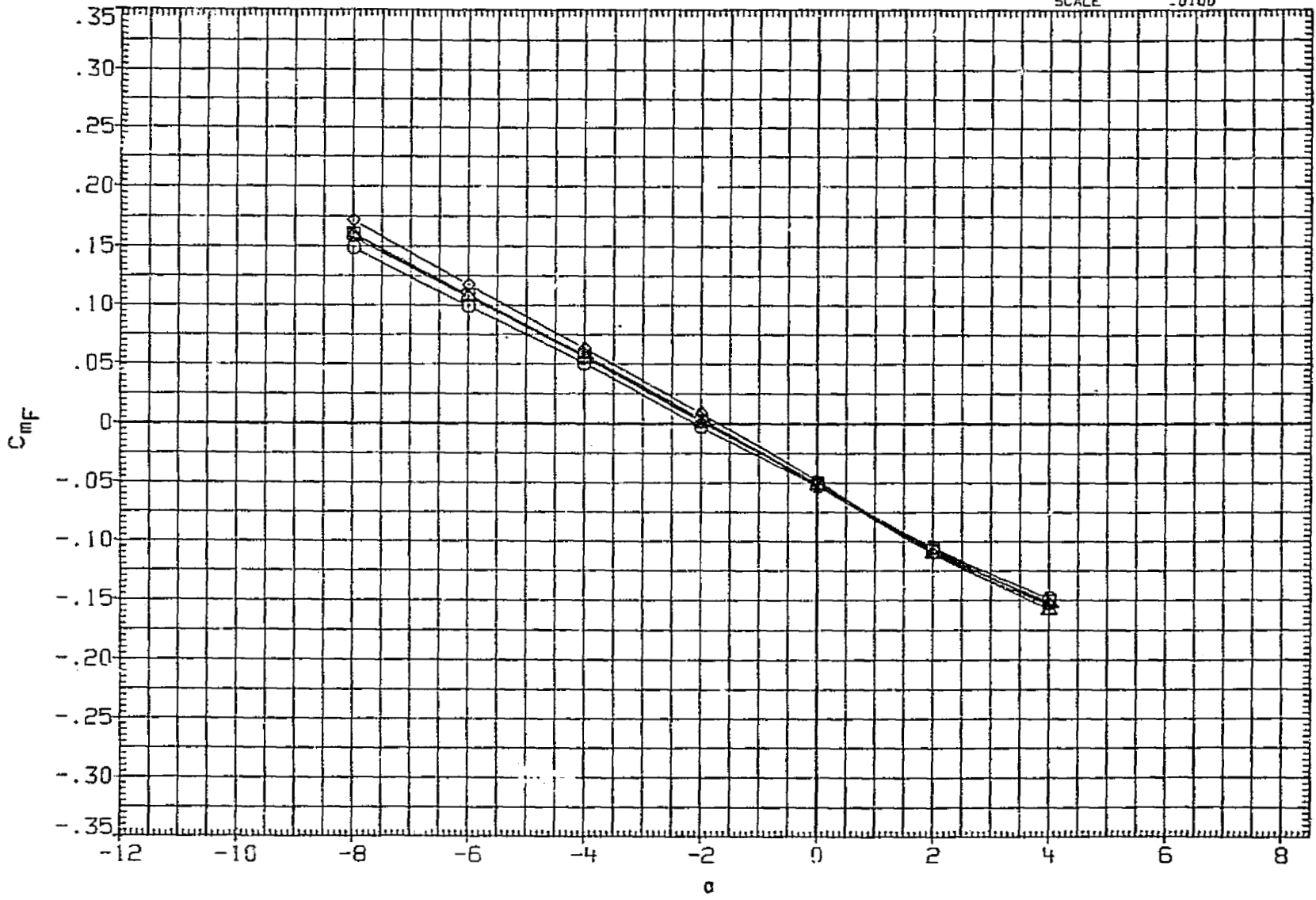


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ802	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJ803	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJ806	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

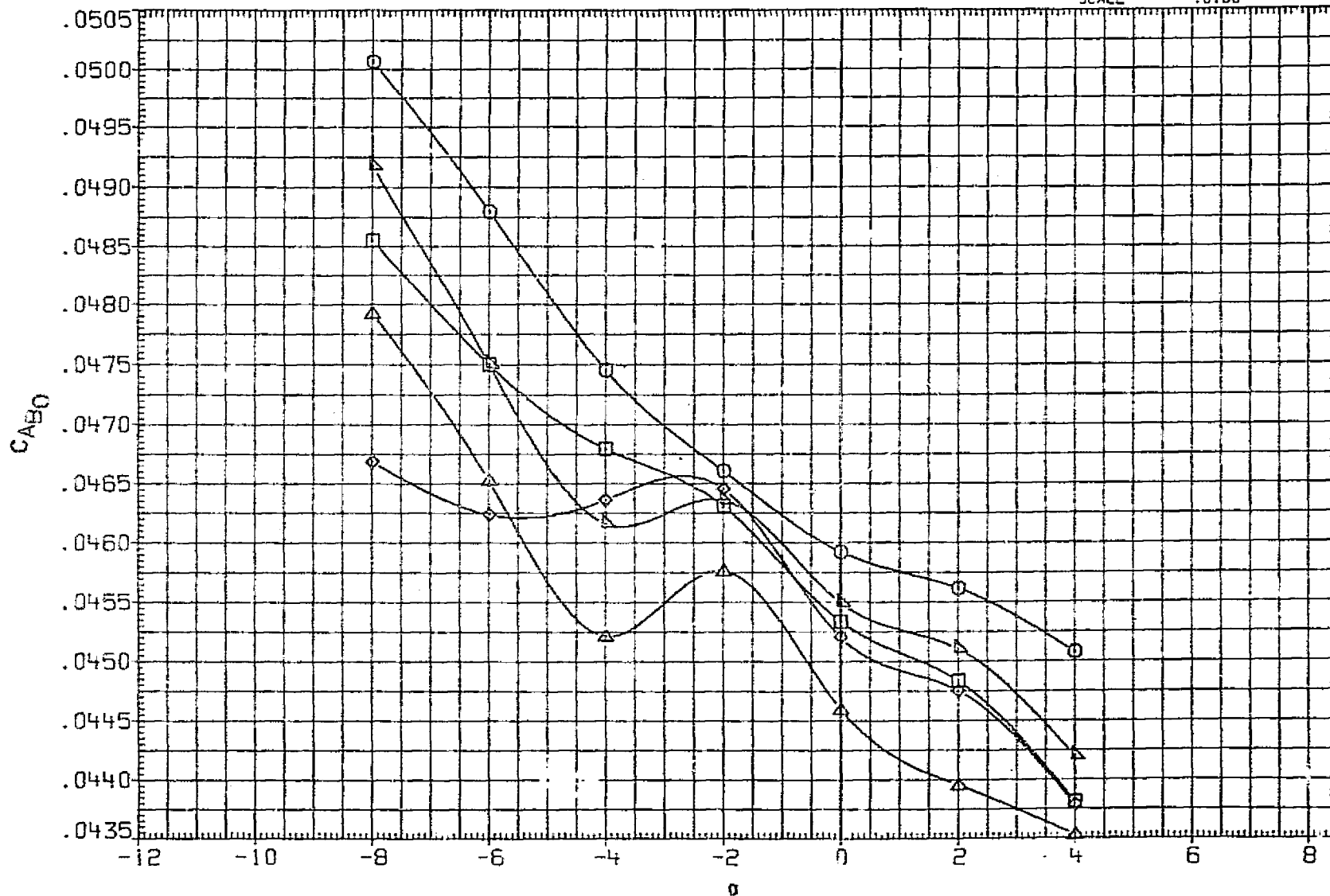


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

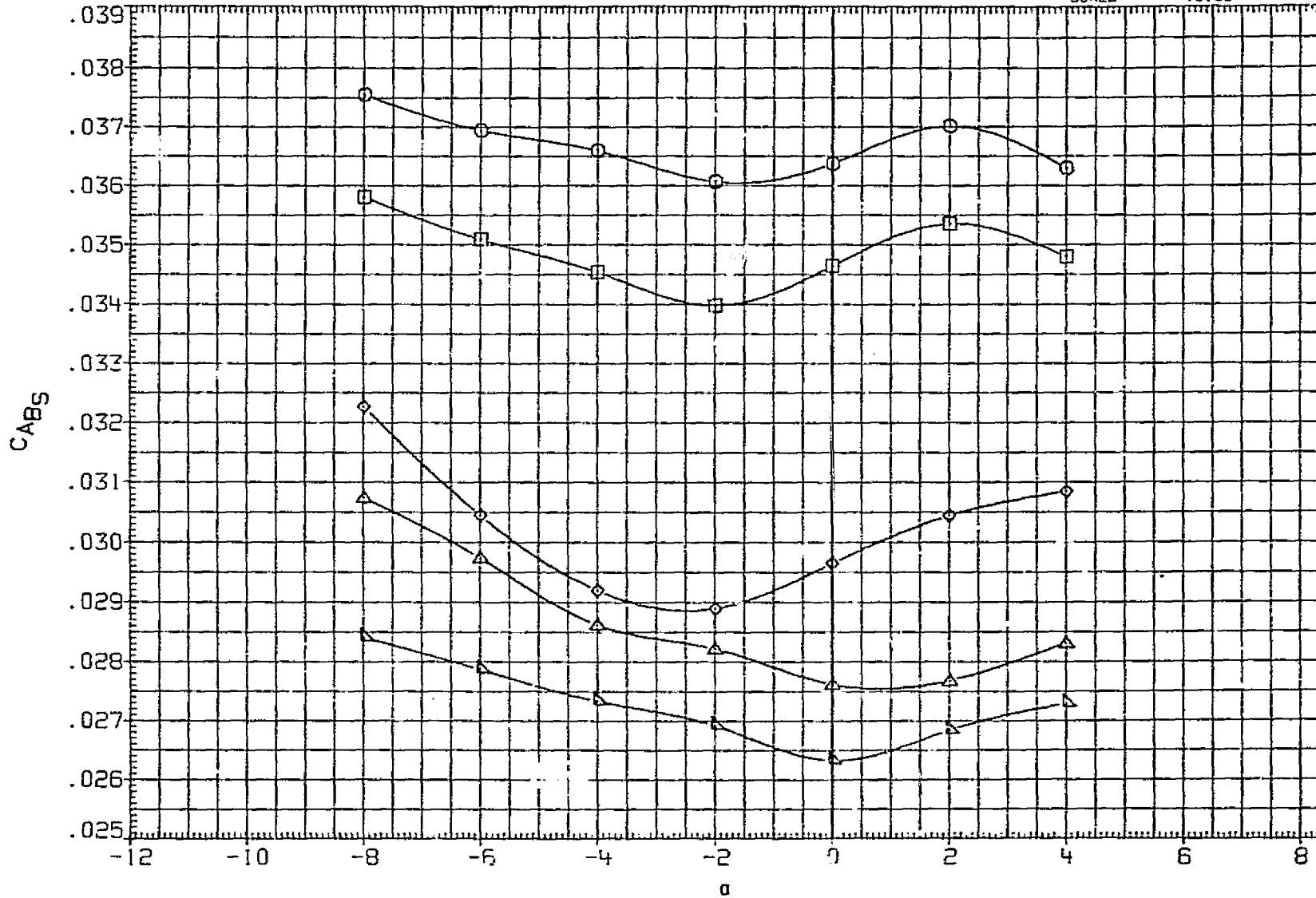


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ802	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2590.0000	SQ. FT.
MJJ803	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMAP	976.0000	IN. XT
MJJ806	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMAP	.0000	IN. YT
								ZMAP	400.0000	IN. ZT
								SCALE	.0100	

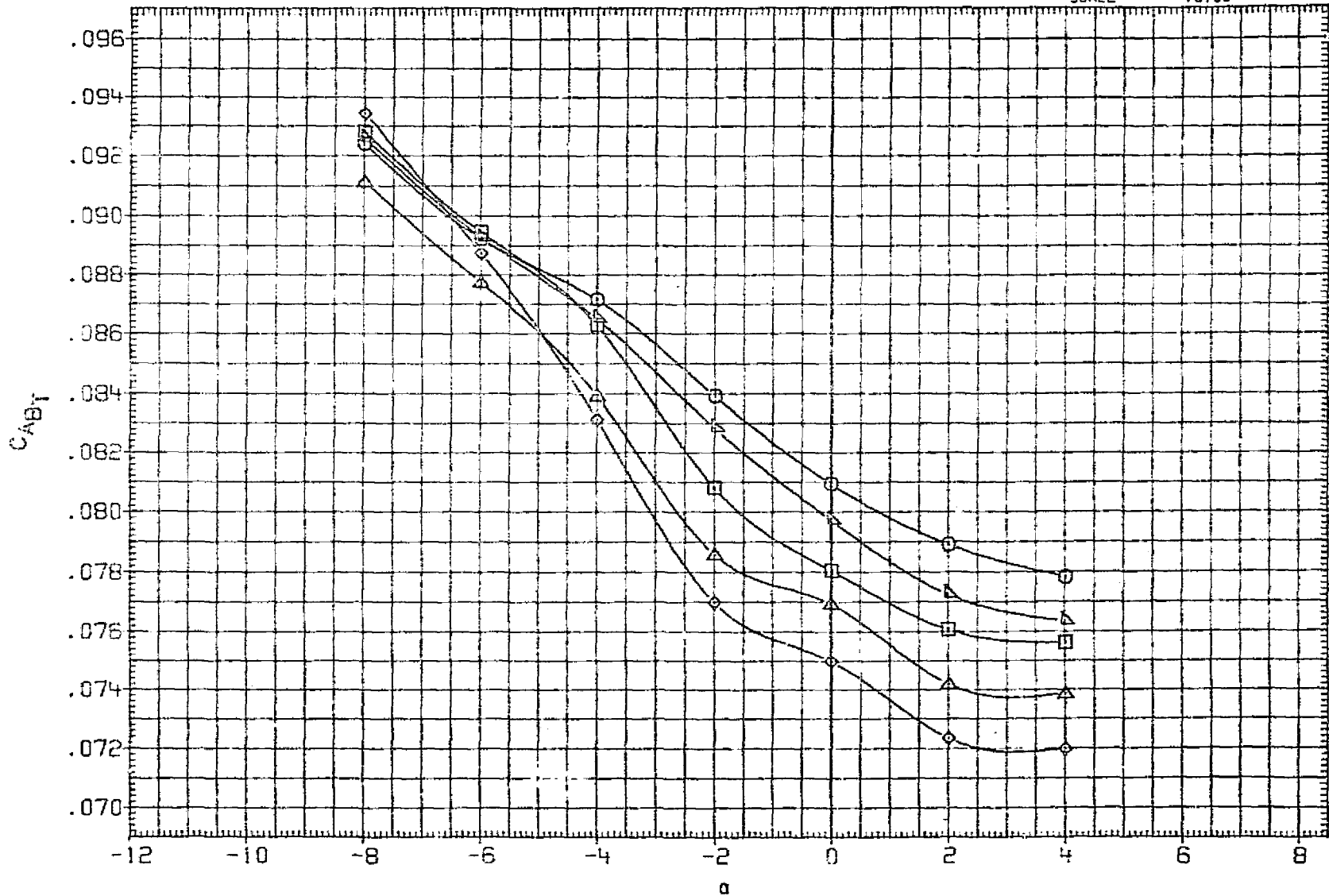


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50.FT.
MJJB03	□	LARC 8FT TPT 749 (A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

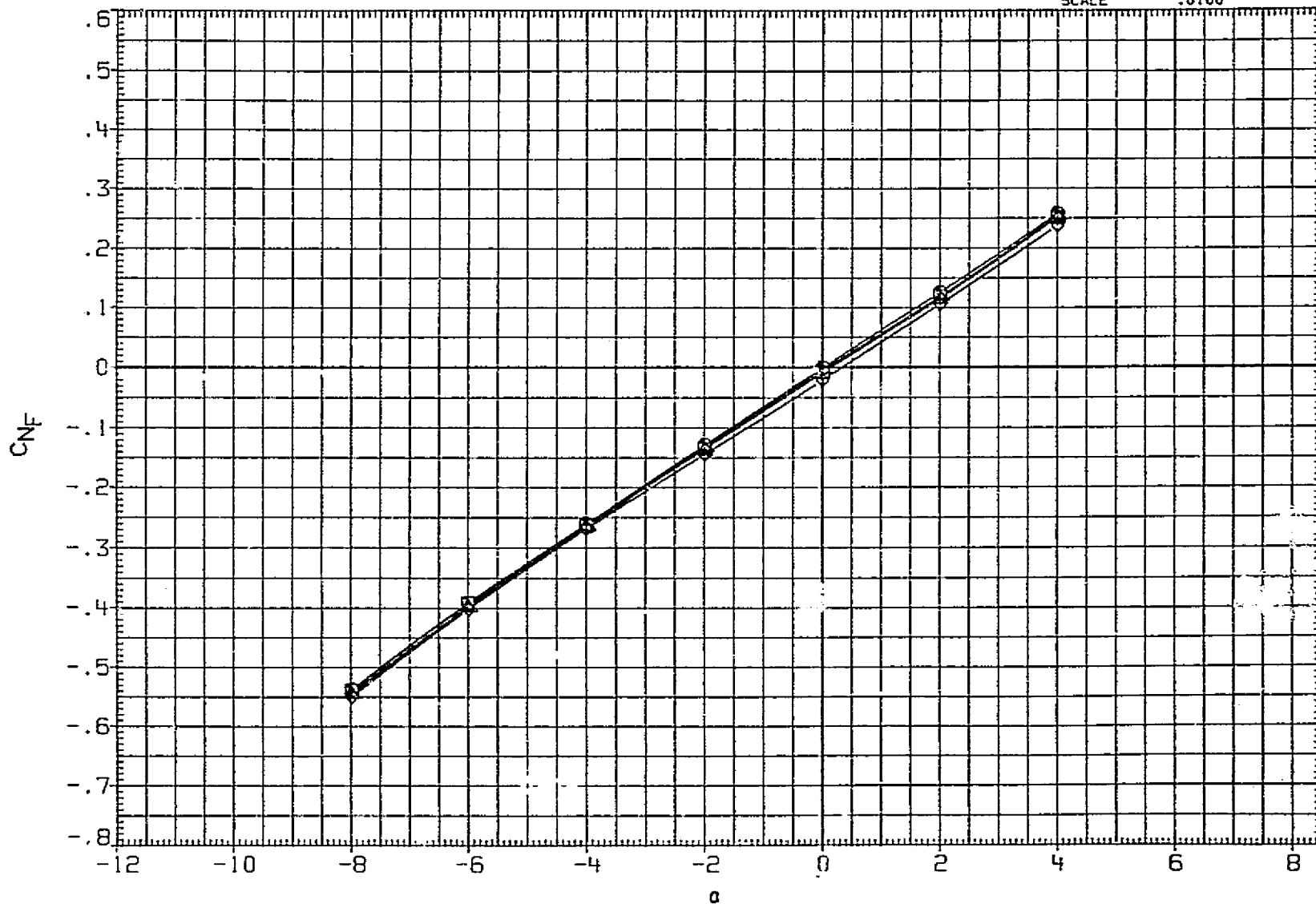


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SO. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

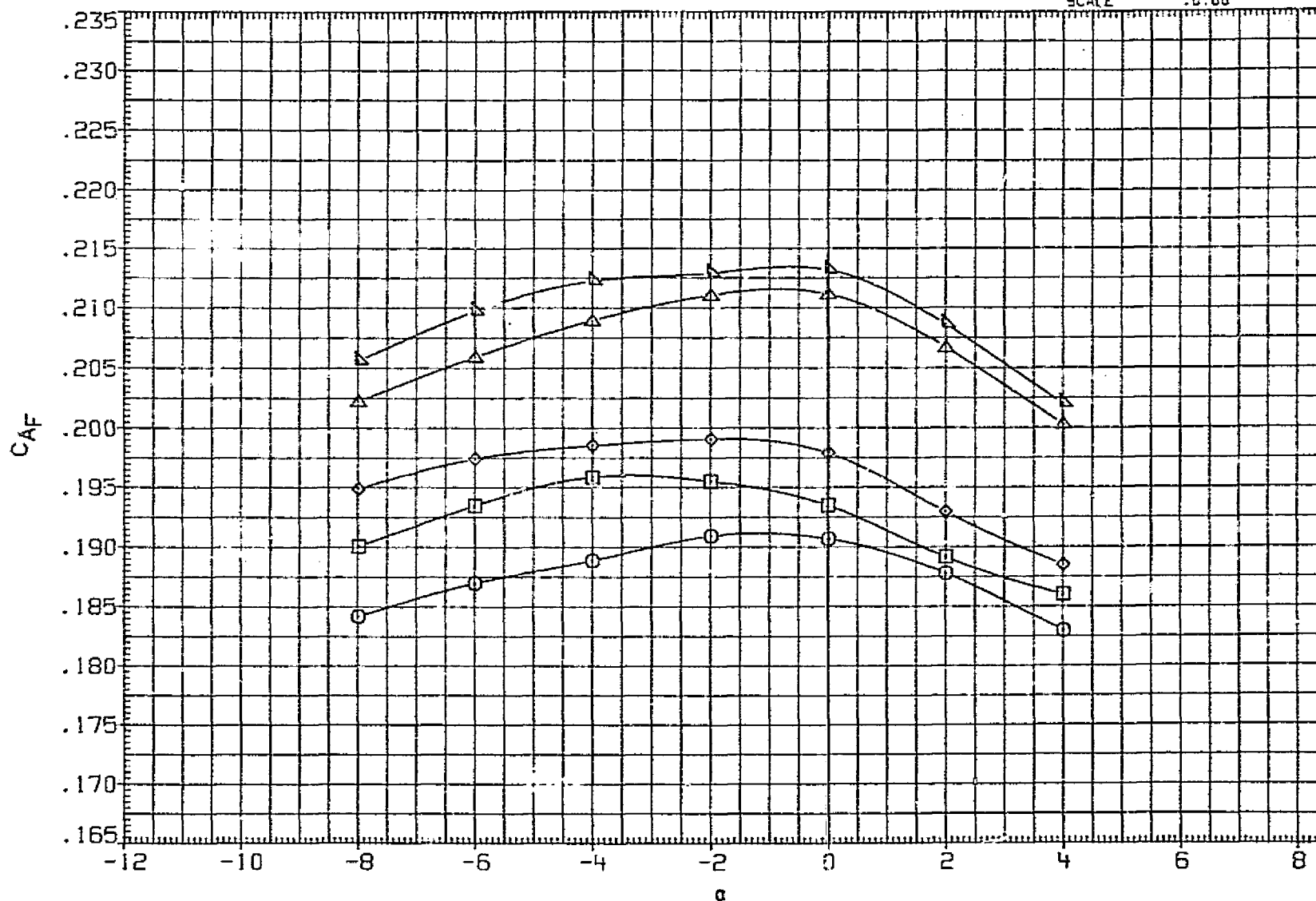


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SG. FT.
MJJB03	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

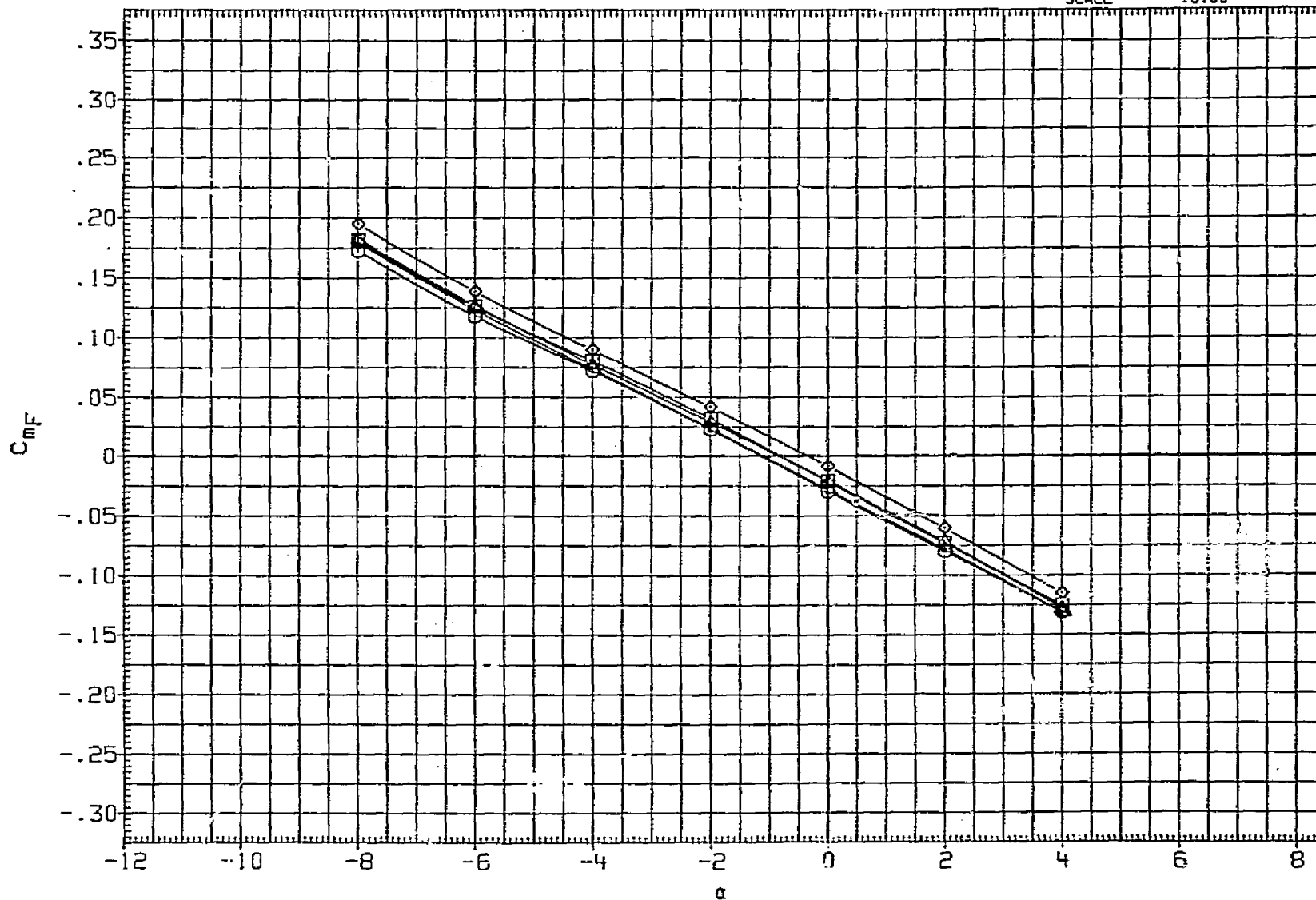


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
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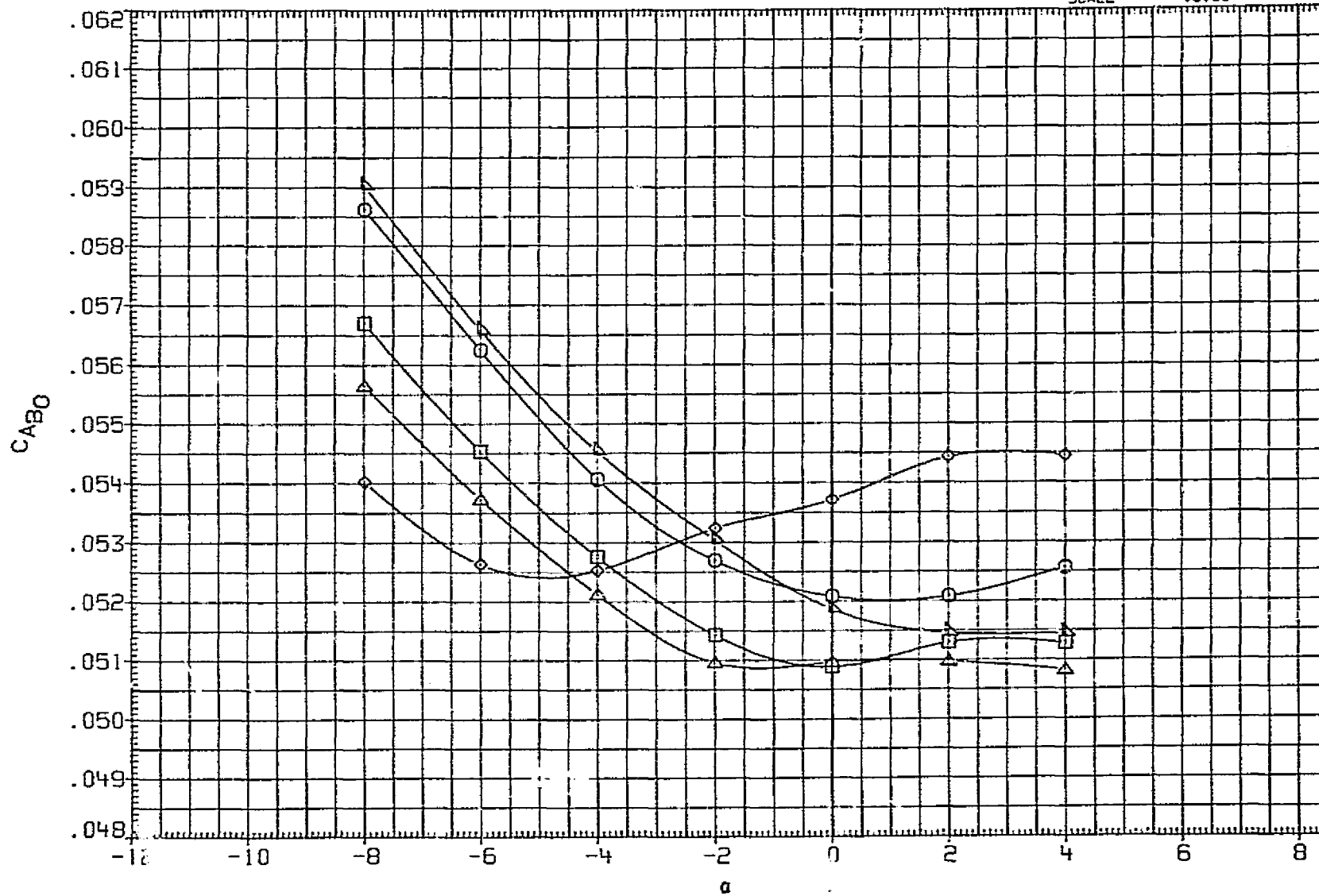


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	. REFERENCE INFORMATION		
MJJB02	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJB03	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	-0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

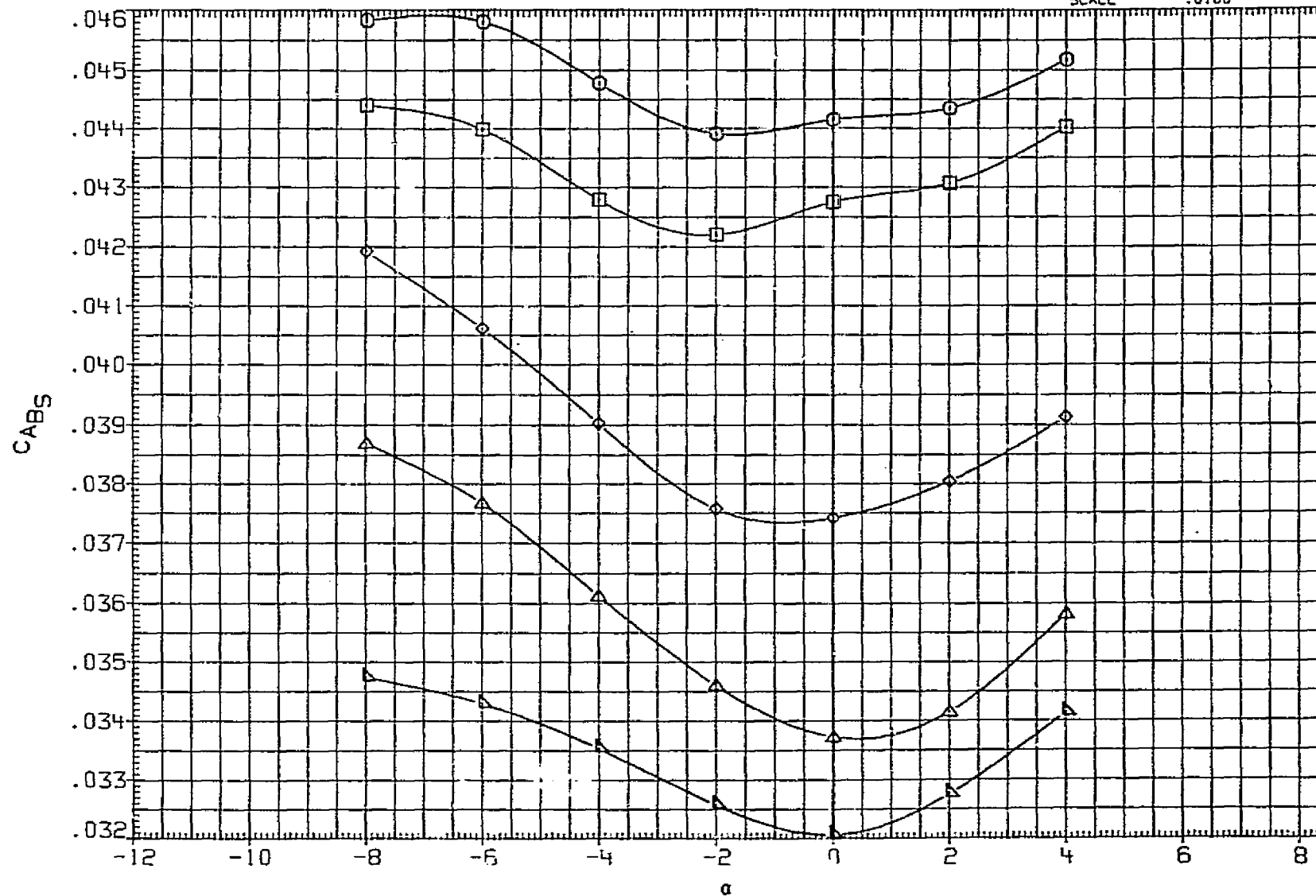


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	7690.0000	SQ. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1293.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1293.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

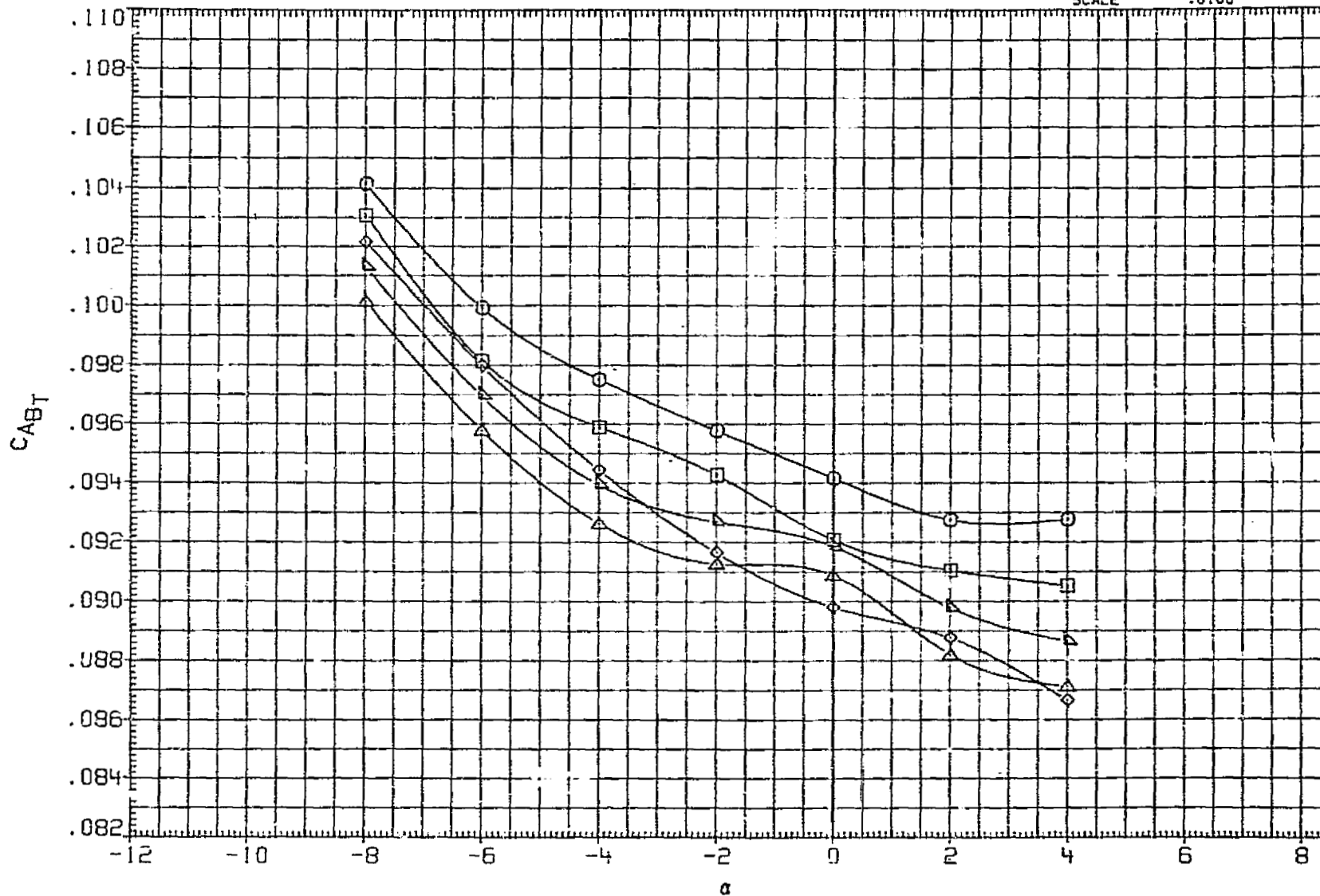


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B/MACH = .98

PAGE 12

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR.

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJB03	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB05	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

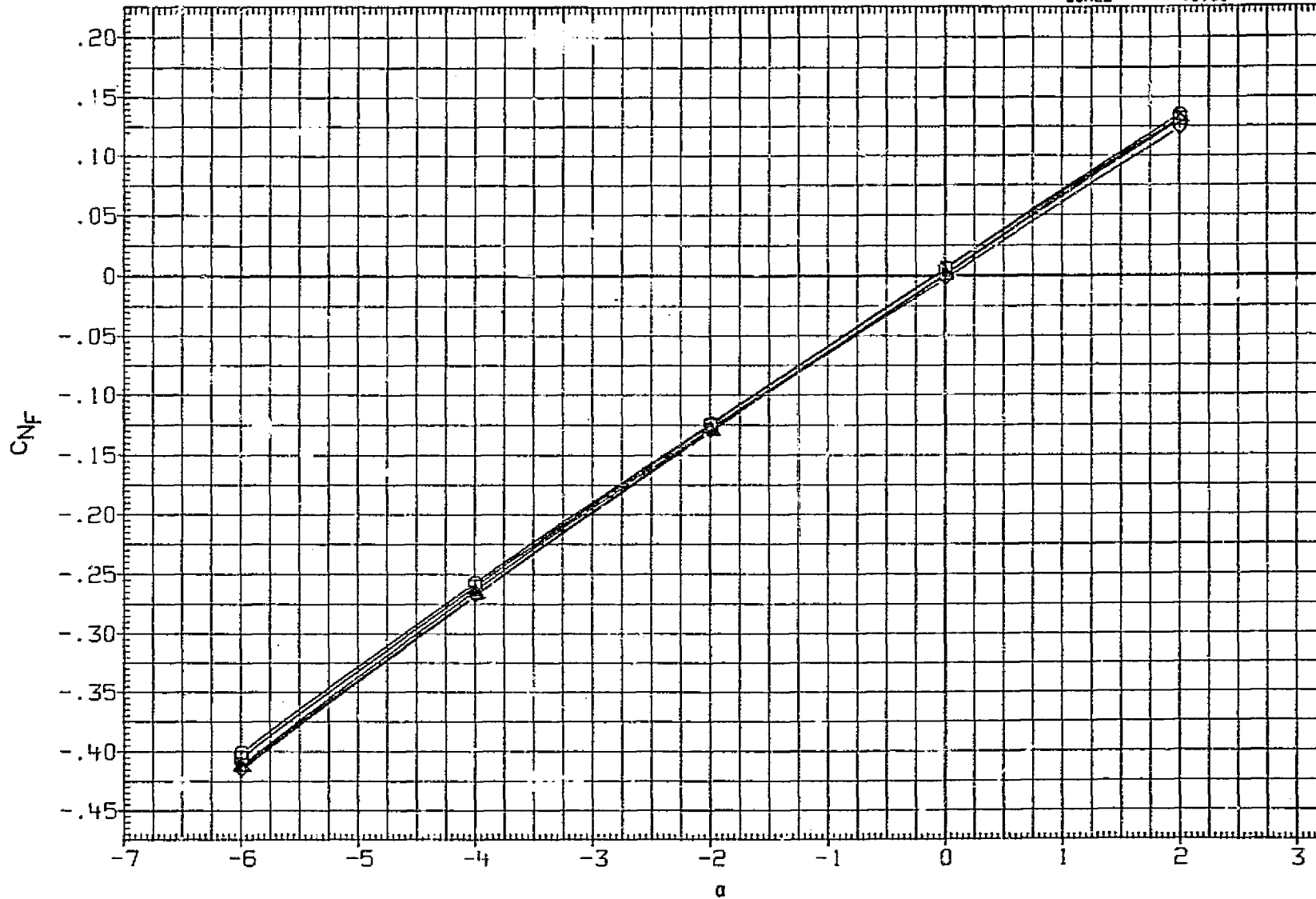


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	3.000	SREF	2690.0000	50. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

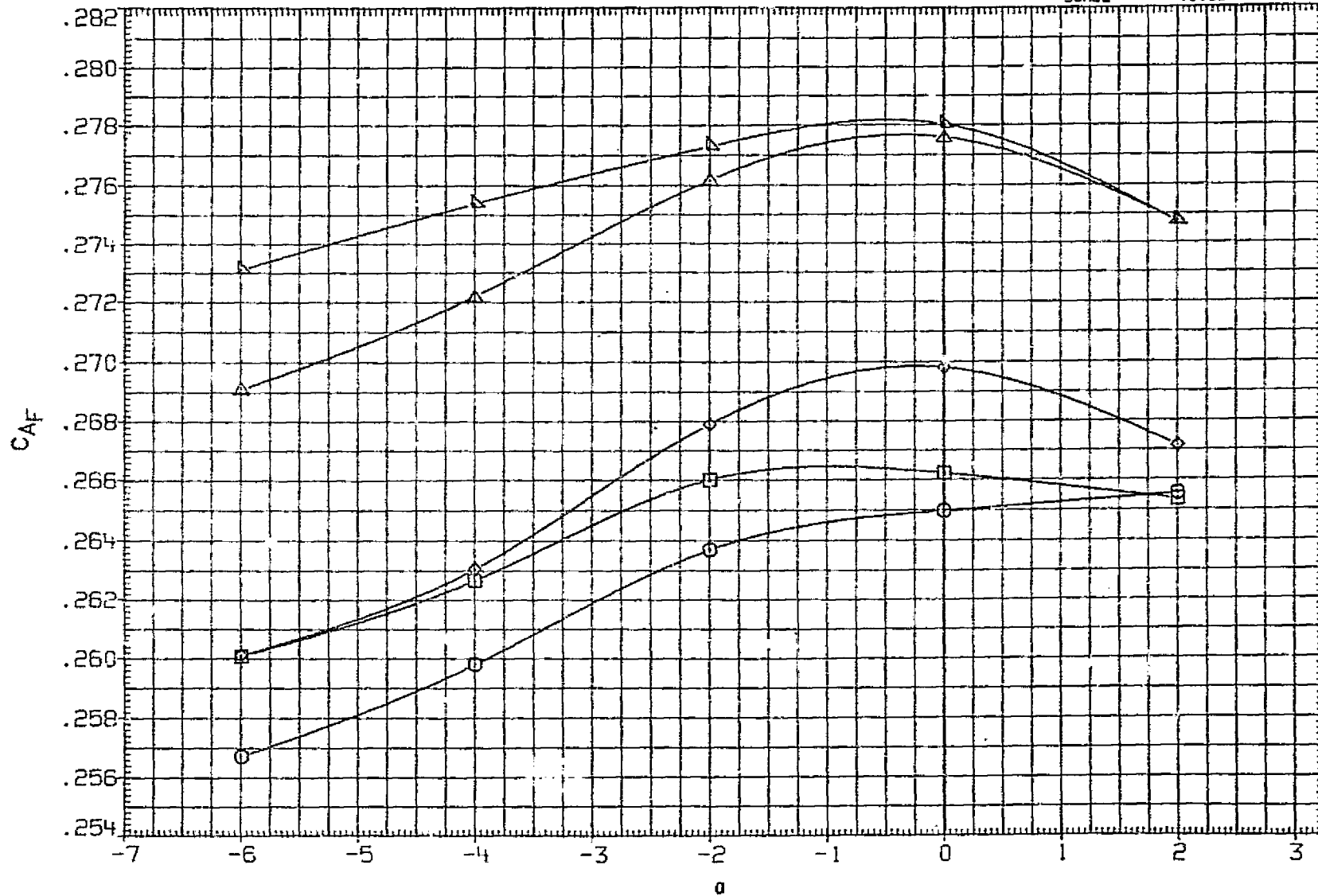


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJE02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJE03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

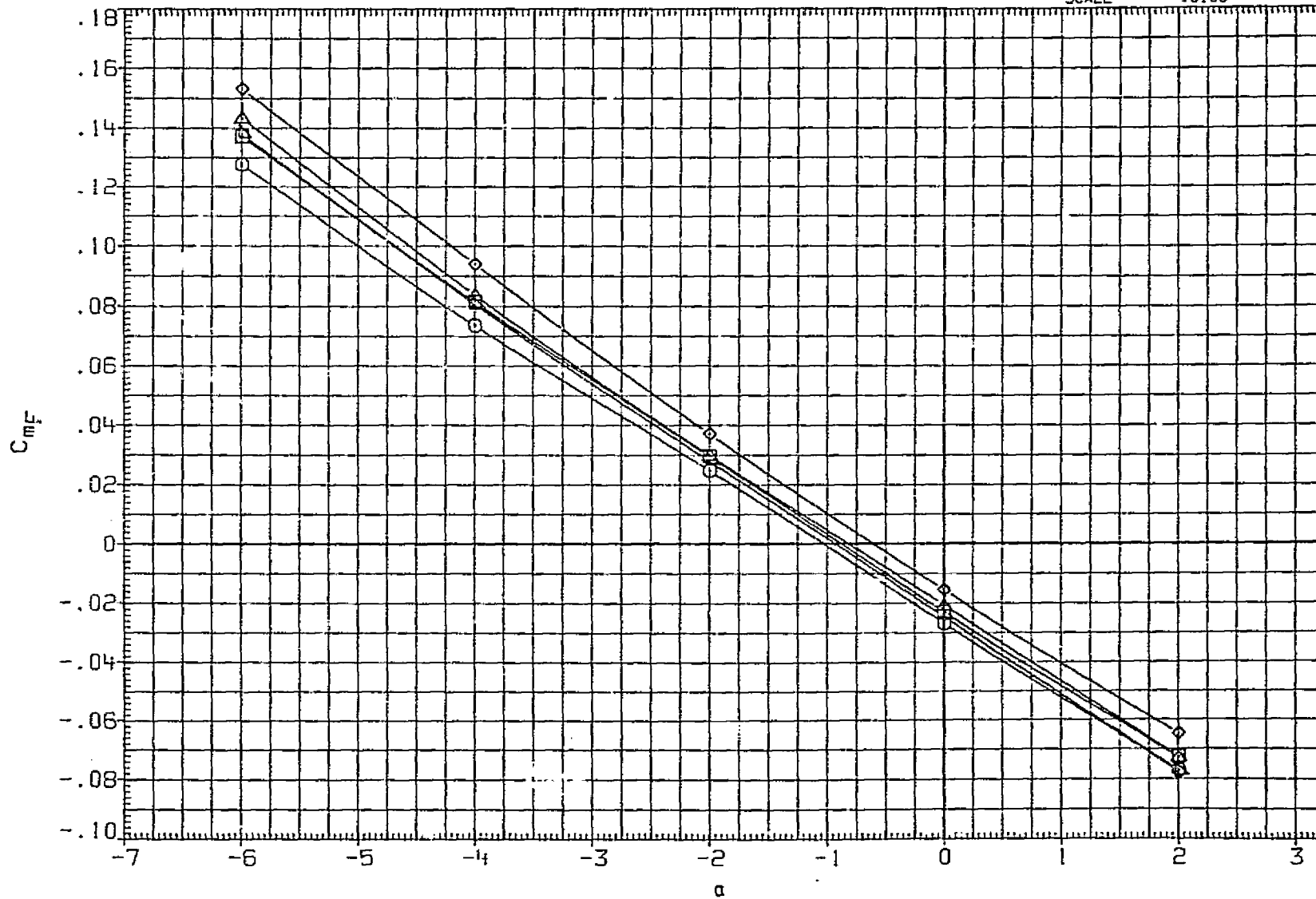


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF 2690.0000 SQ.FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF 1290.3000 INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF 1290.3000 INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP 976.0000 IN. YT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

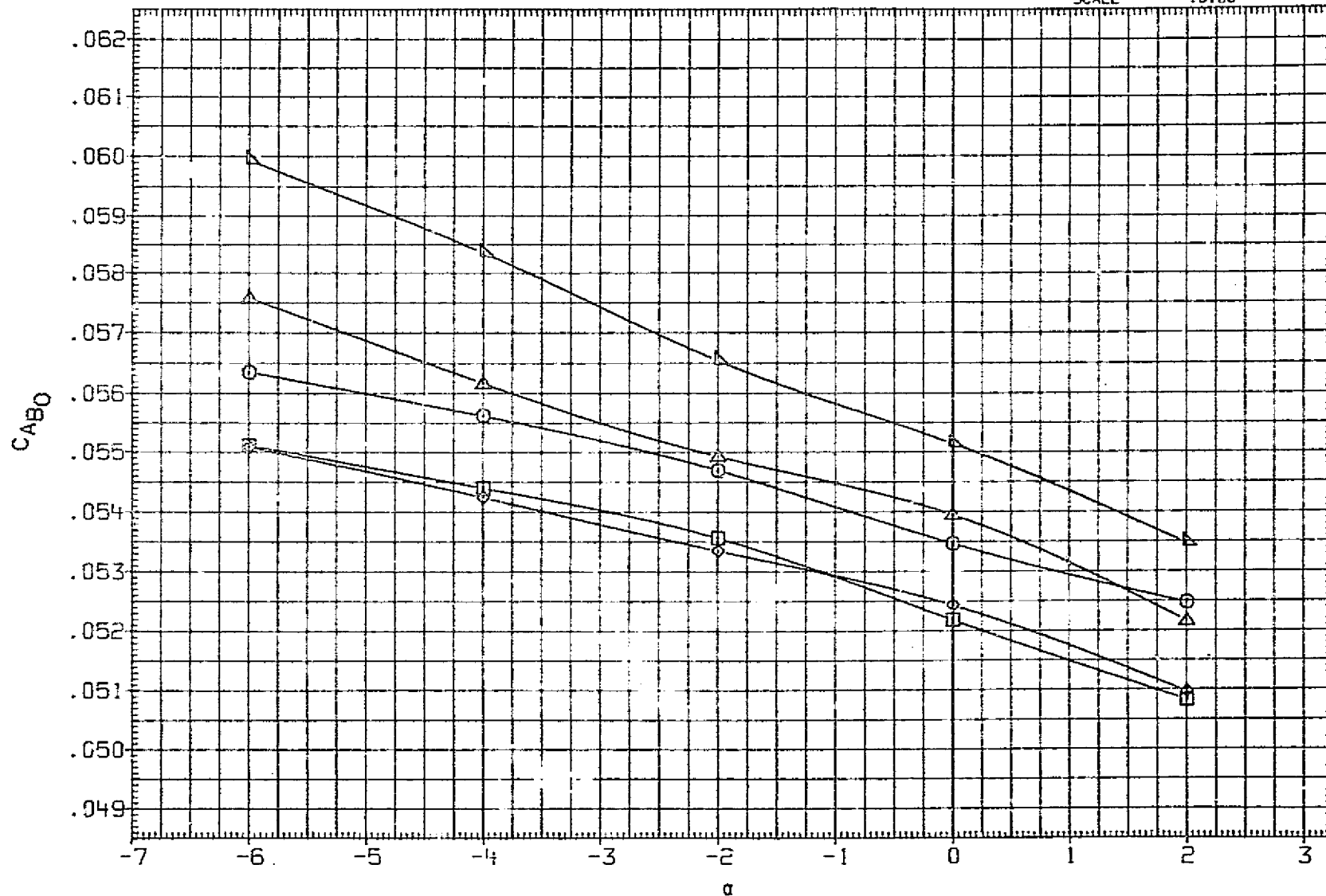


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ802	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50.FT.
MJJ803	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT	
MJJ636	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

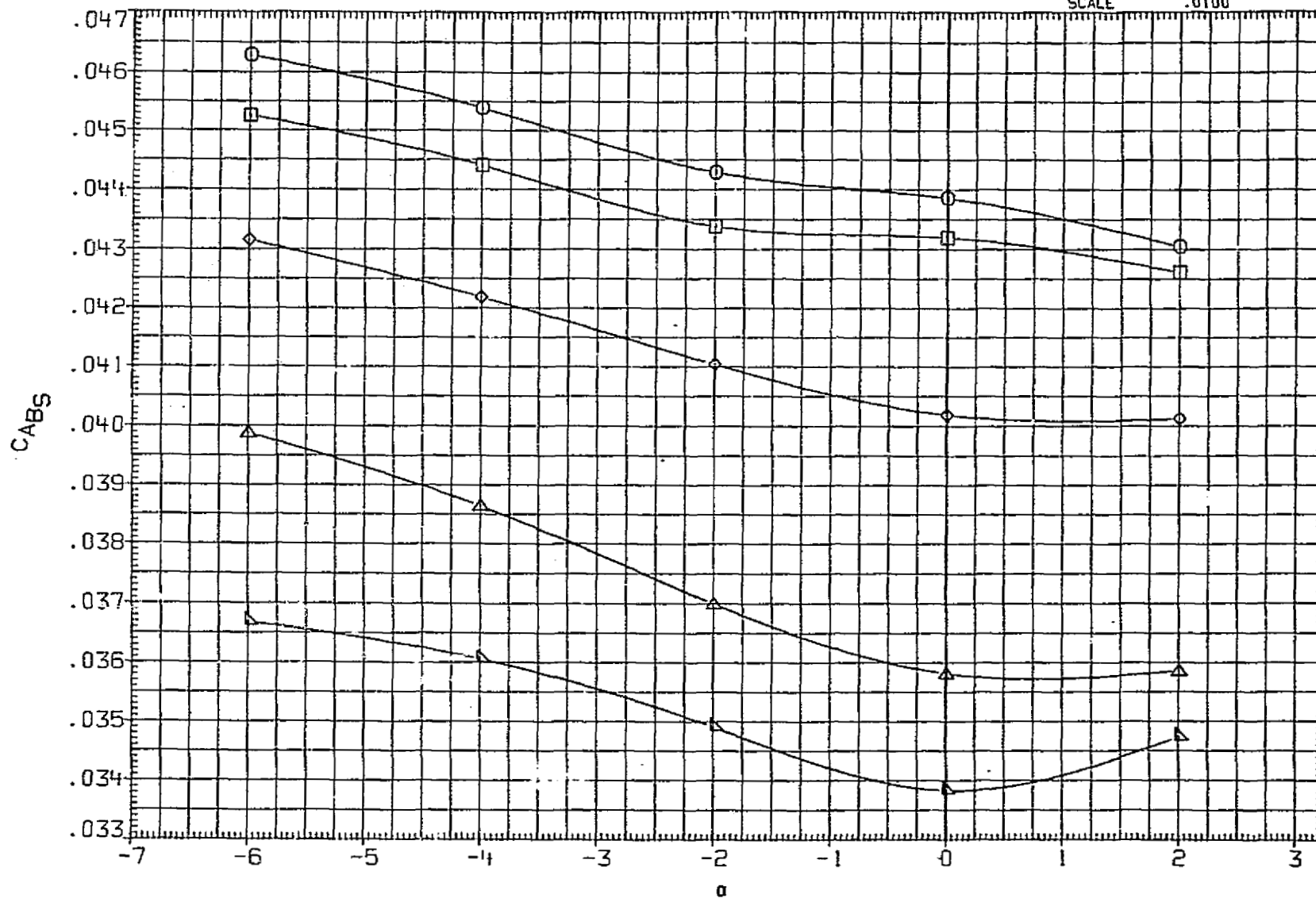


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ802	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ.FT.
MJJ803	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJ806	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

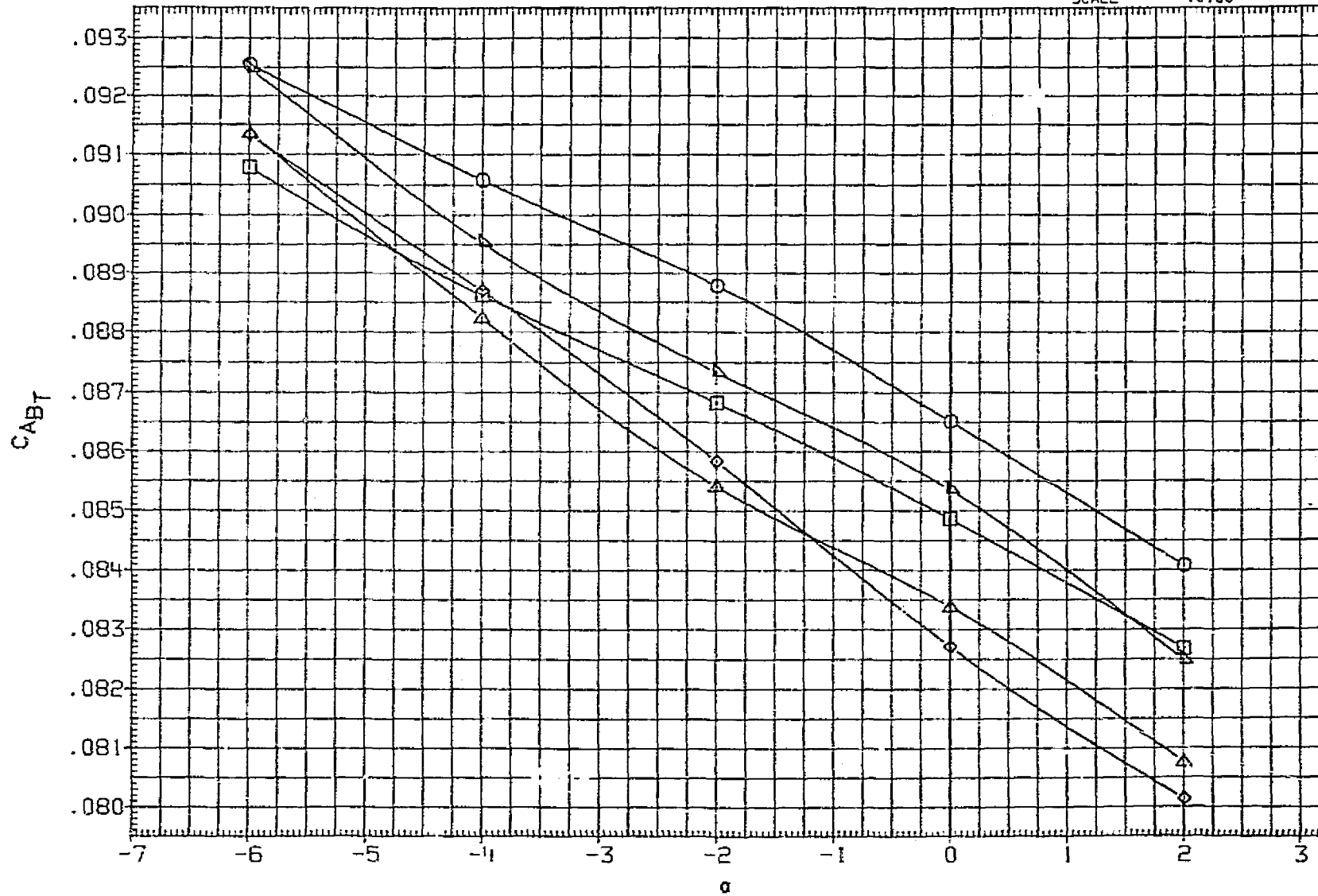


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8F1 TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	\$REF	2690.0000	SQ. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

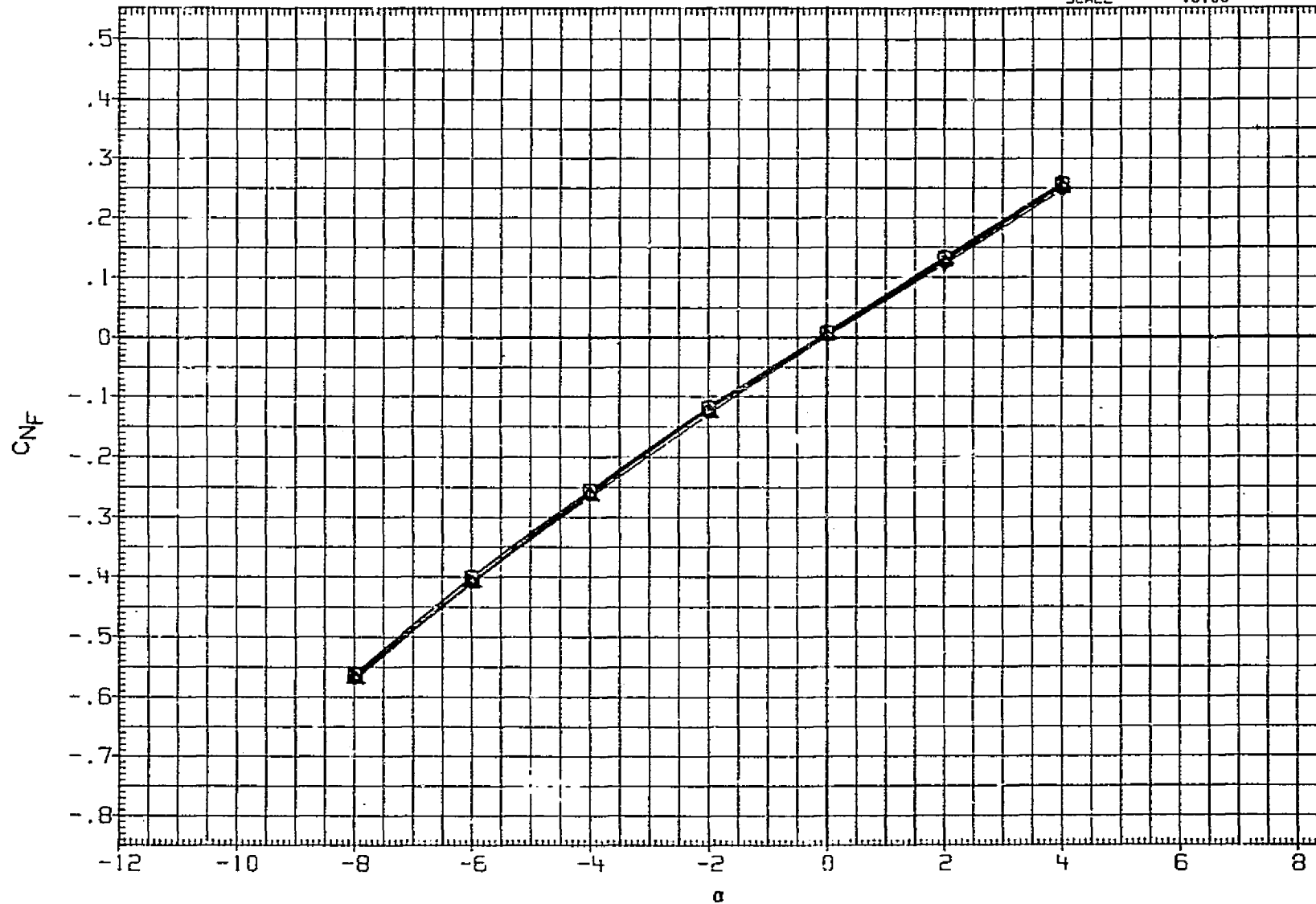


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

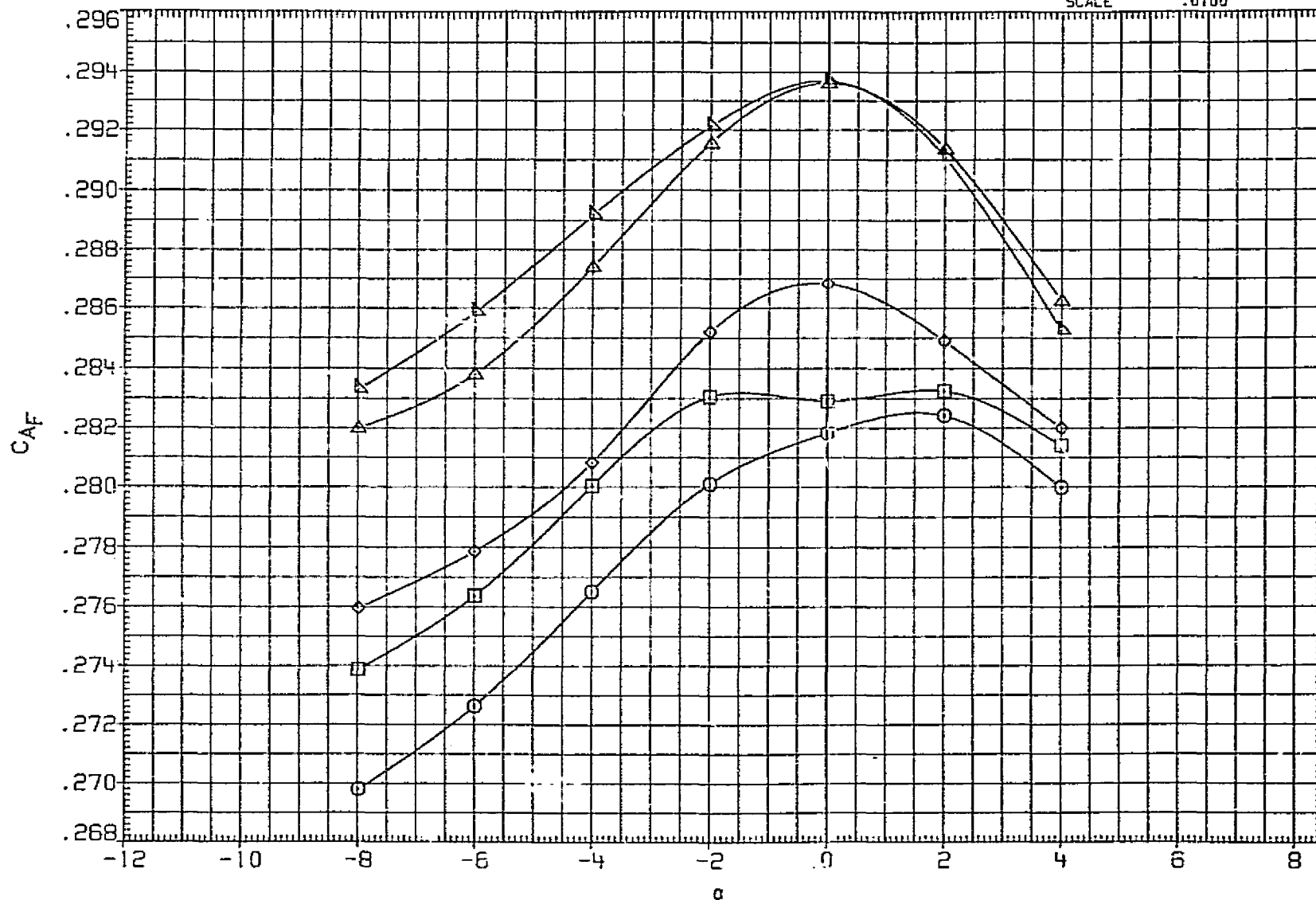


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(O) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ802	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50.FT.
MJJ803	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJ806	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

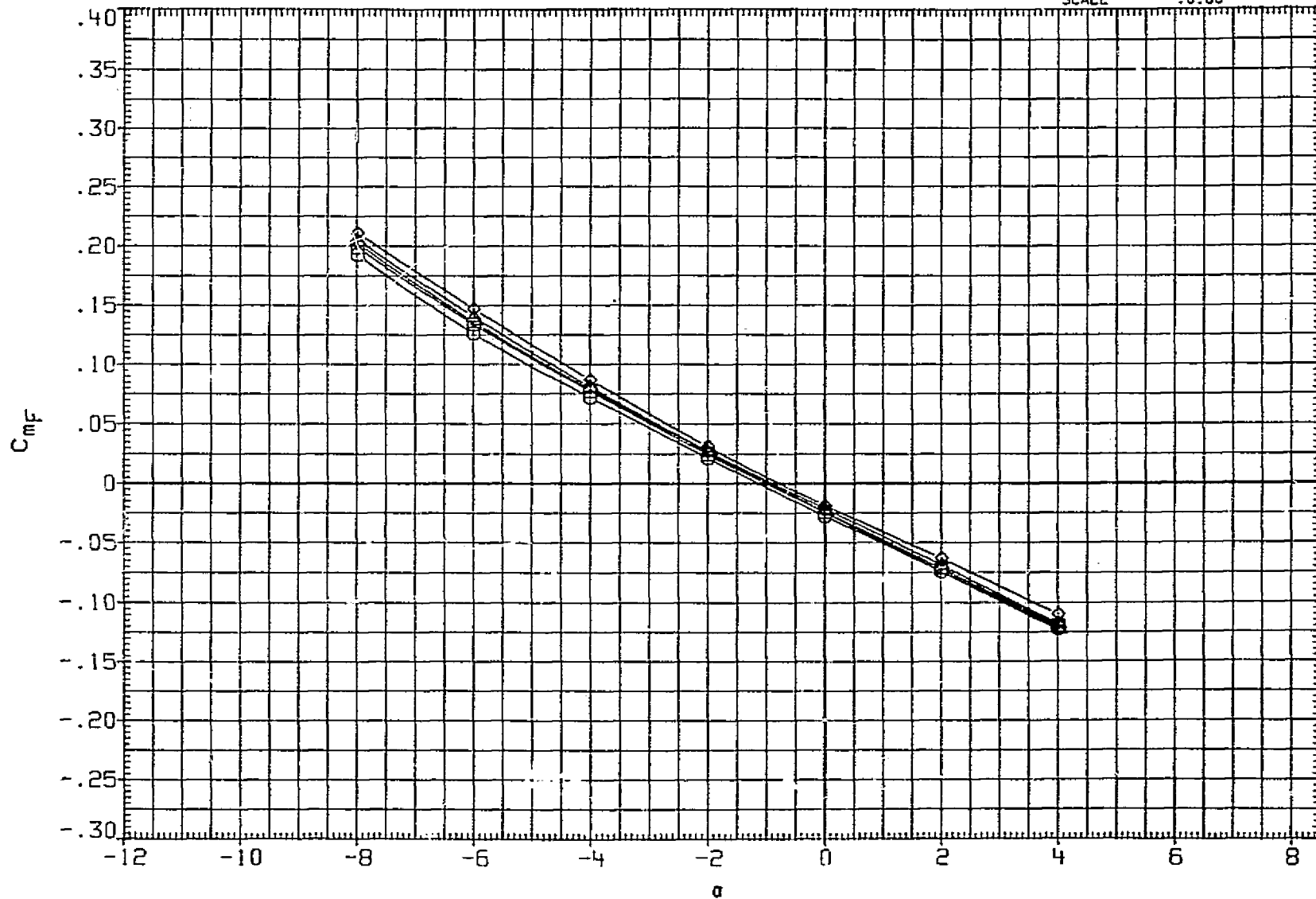


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ802	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50.FT.
MJJ803	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJ806	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

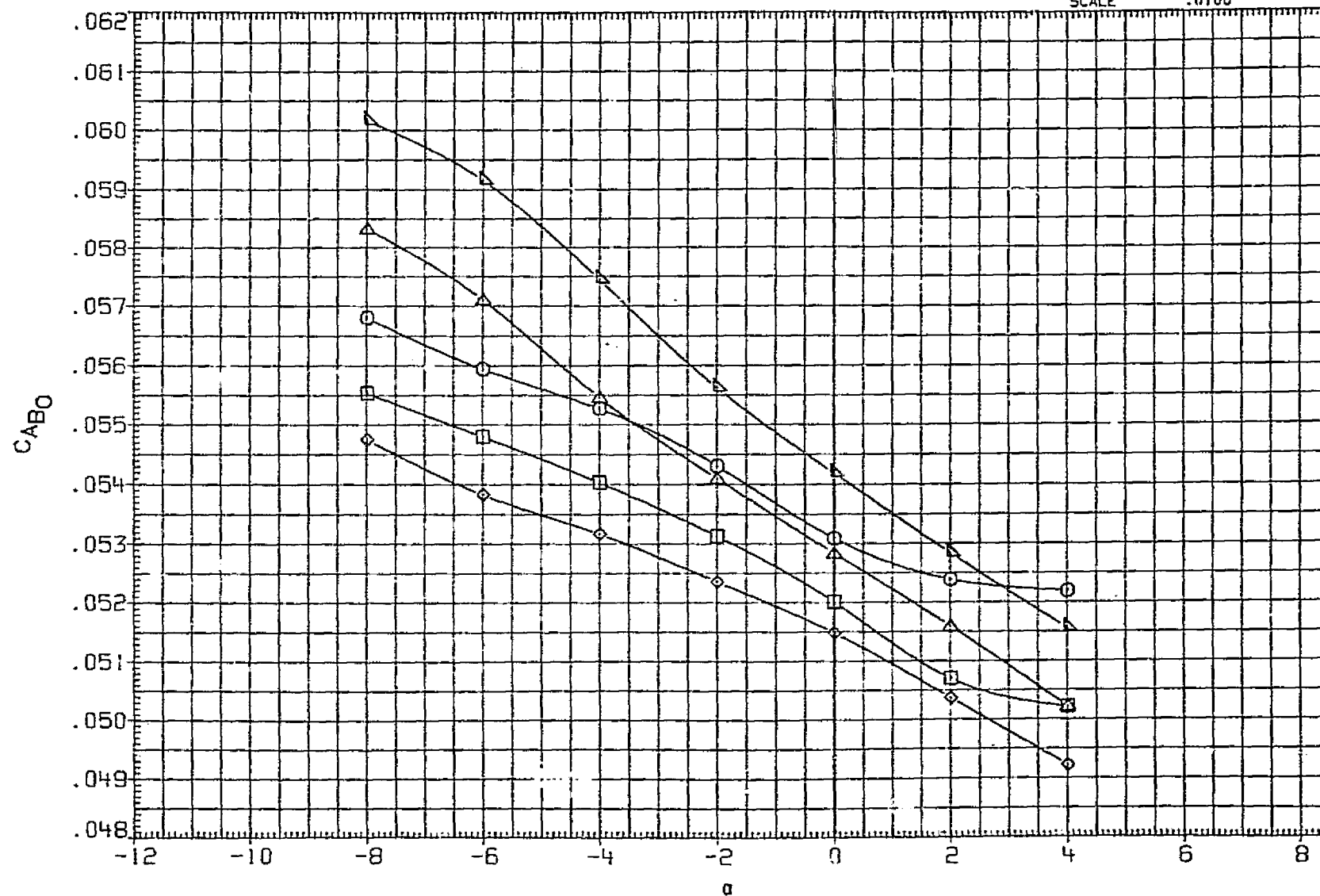


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	YMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

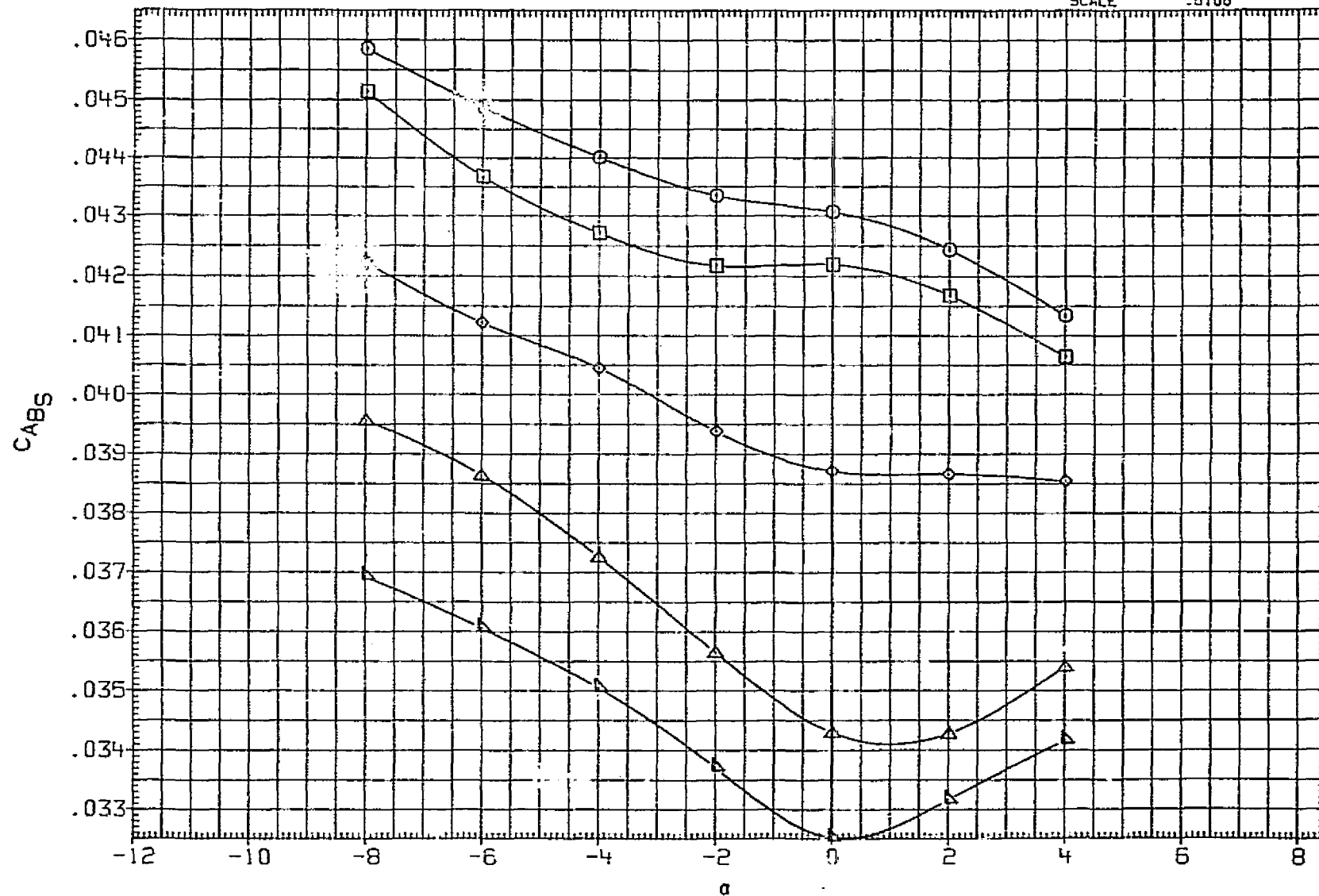


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RD	REFERENCE INFORMATION		
MJJ802	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2630.0000	50. FT.
MJJ803	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJ806	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

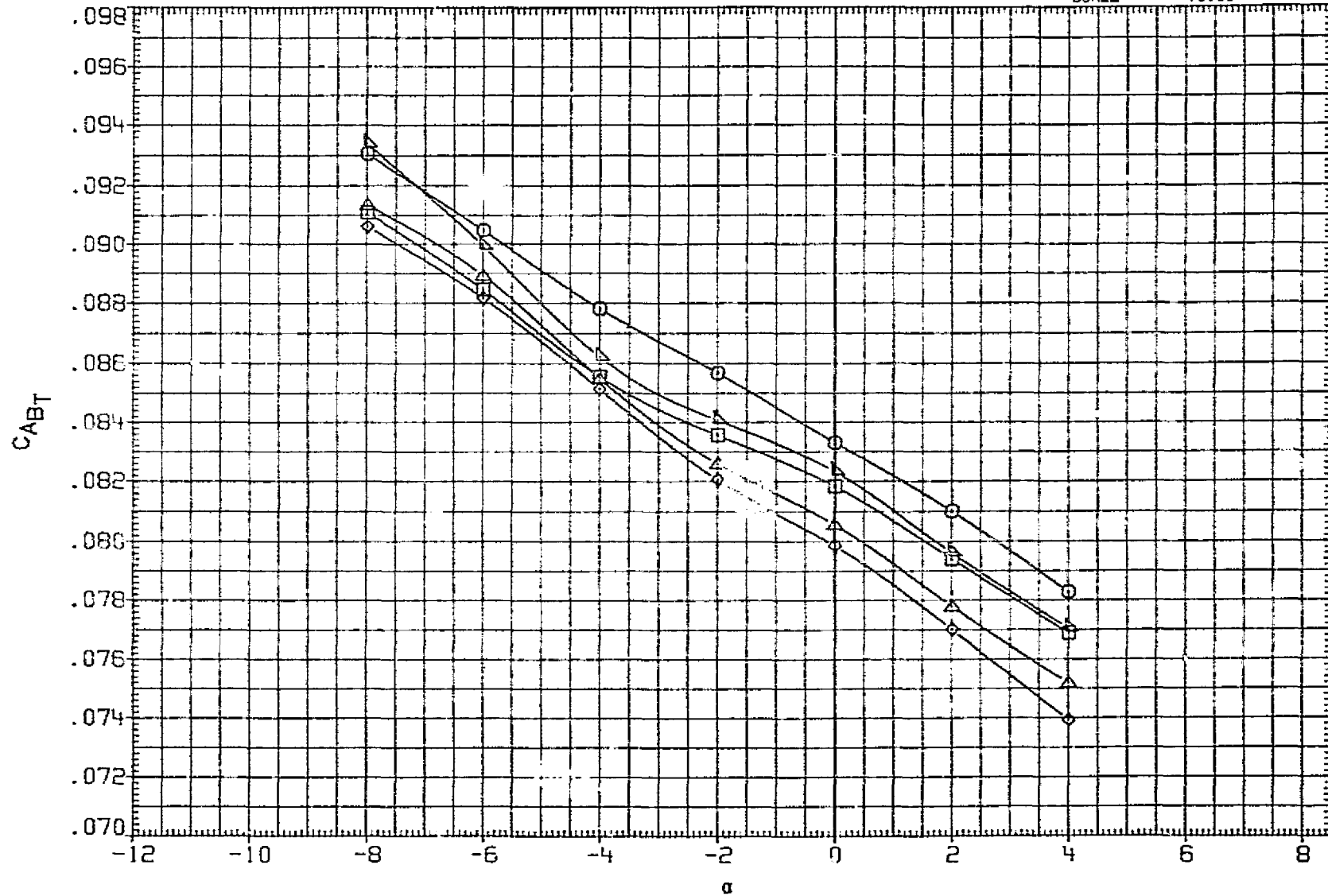


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ807	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ. FT.
MJJ808	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJ809	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJ810	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJ811	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

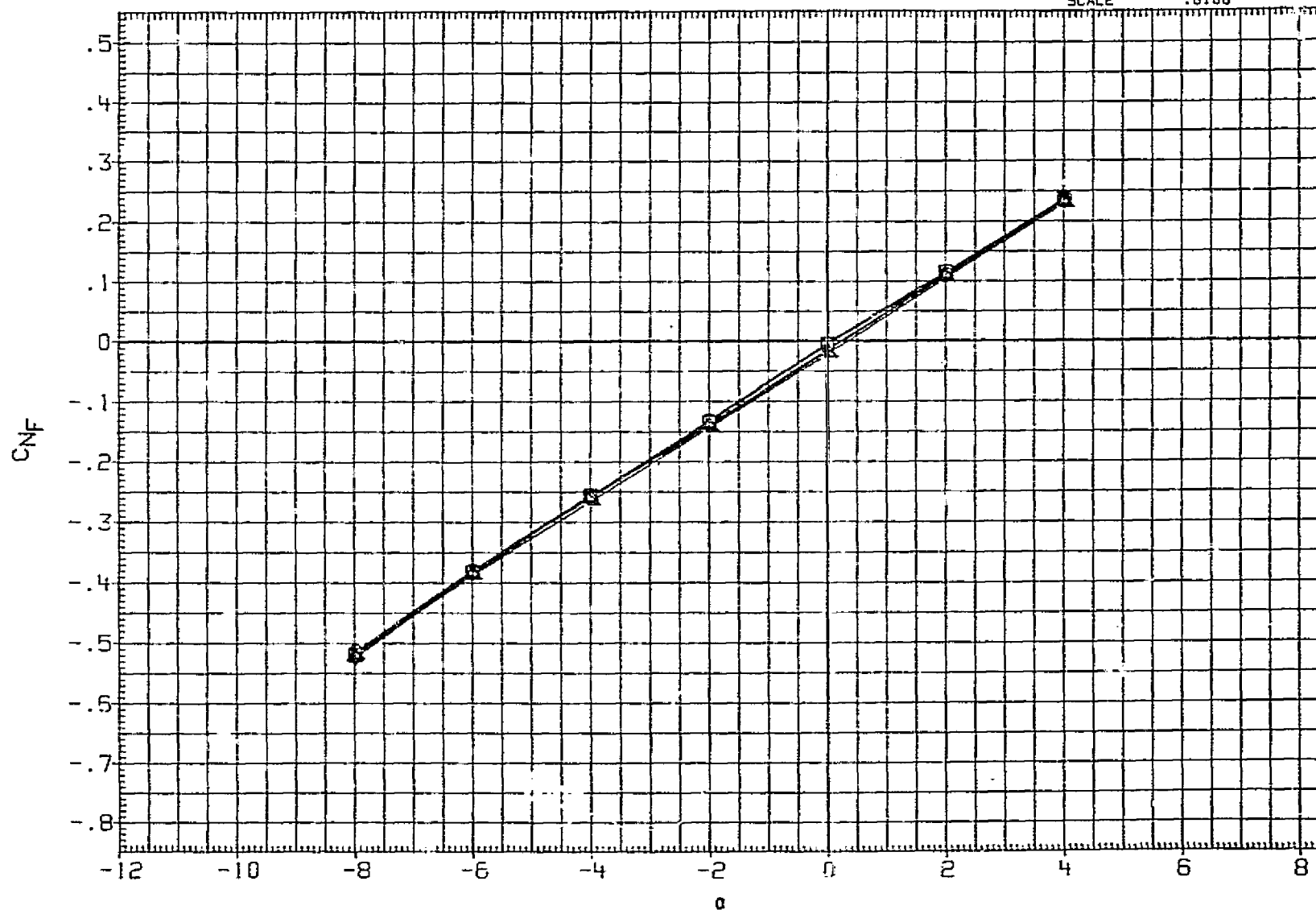


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2693.0000	50. FT.
MJJB08	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	15.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

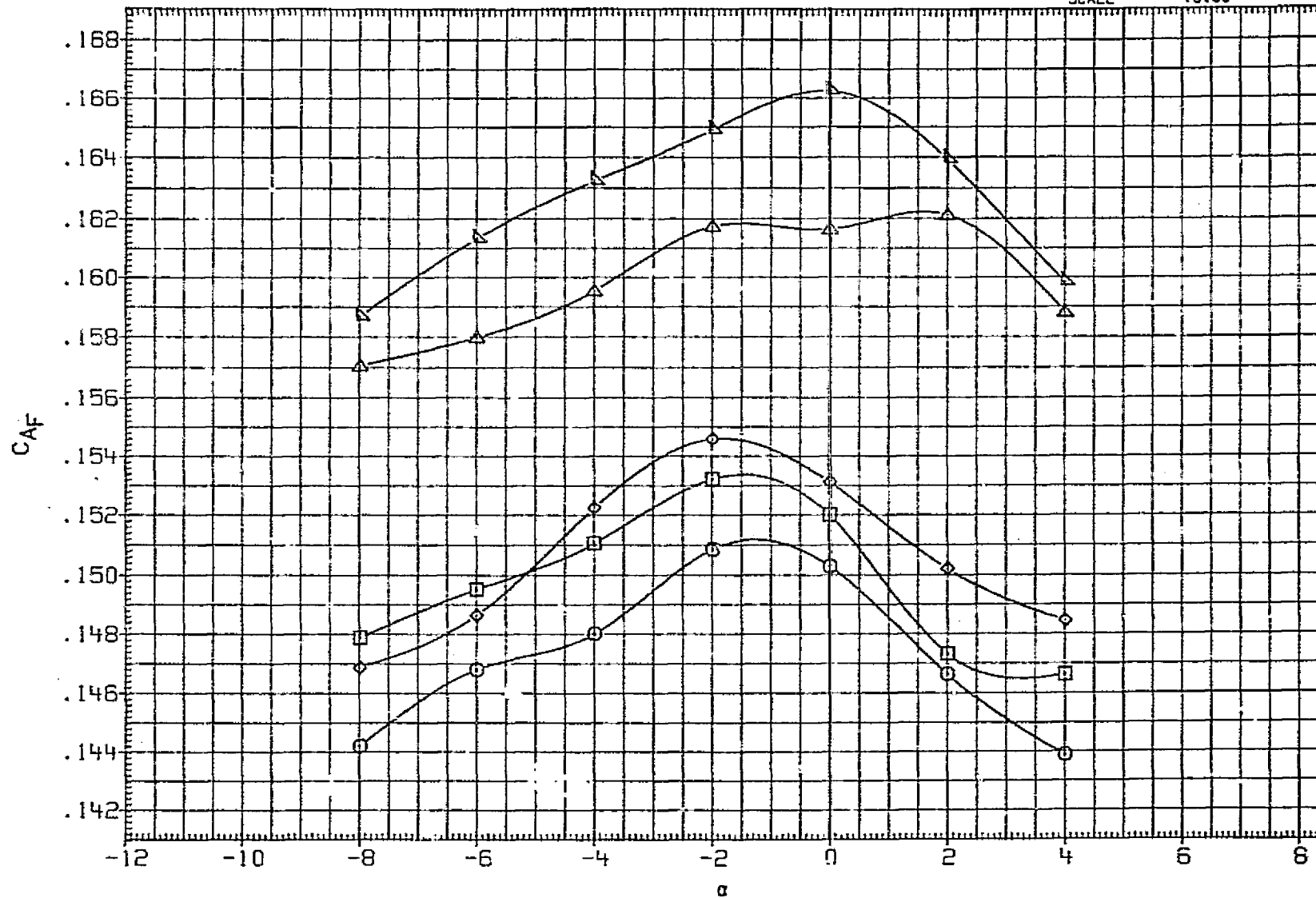


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R?	ELV-R0	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

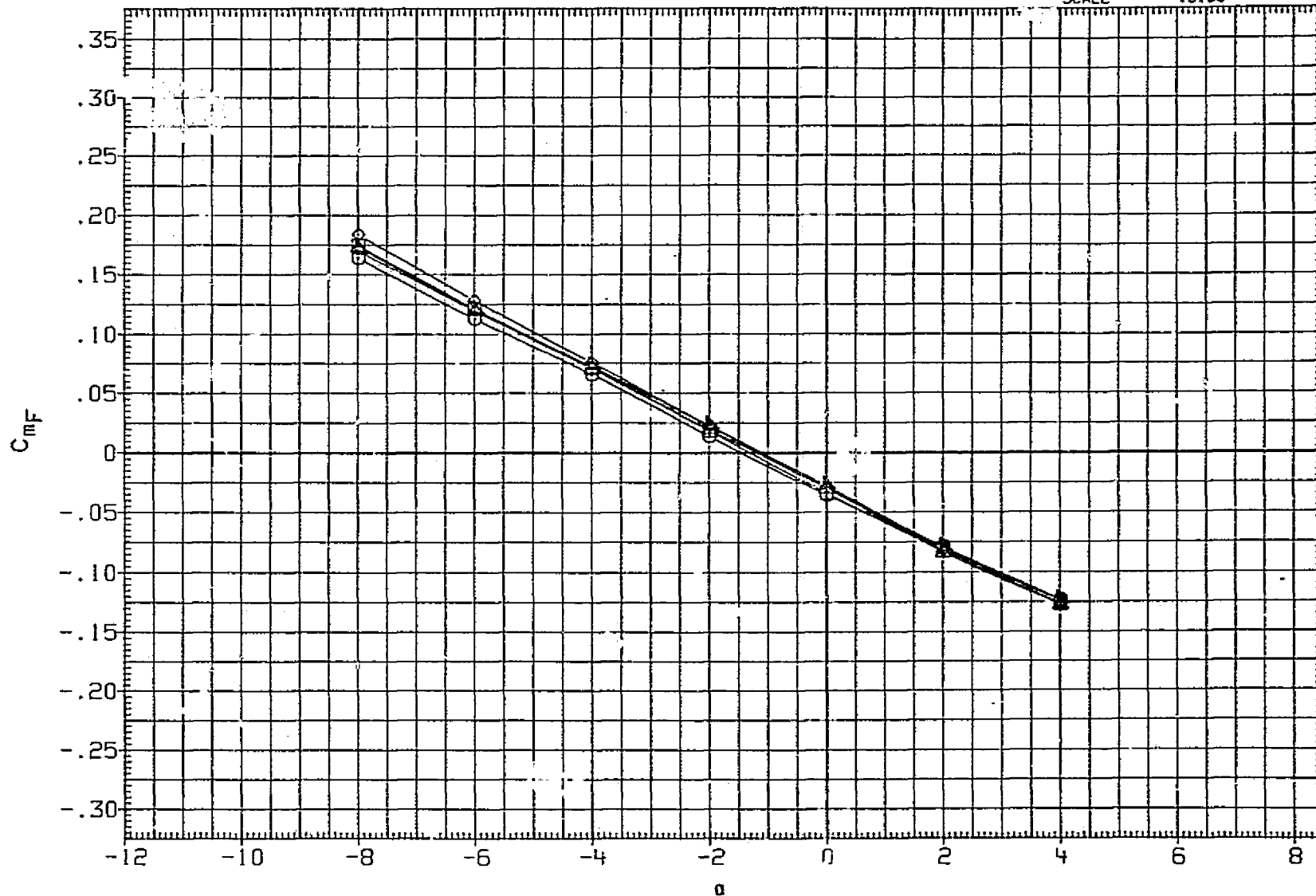


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ807	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SO.FT.
MJJ808	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJ809	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJ810	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJ811	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

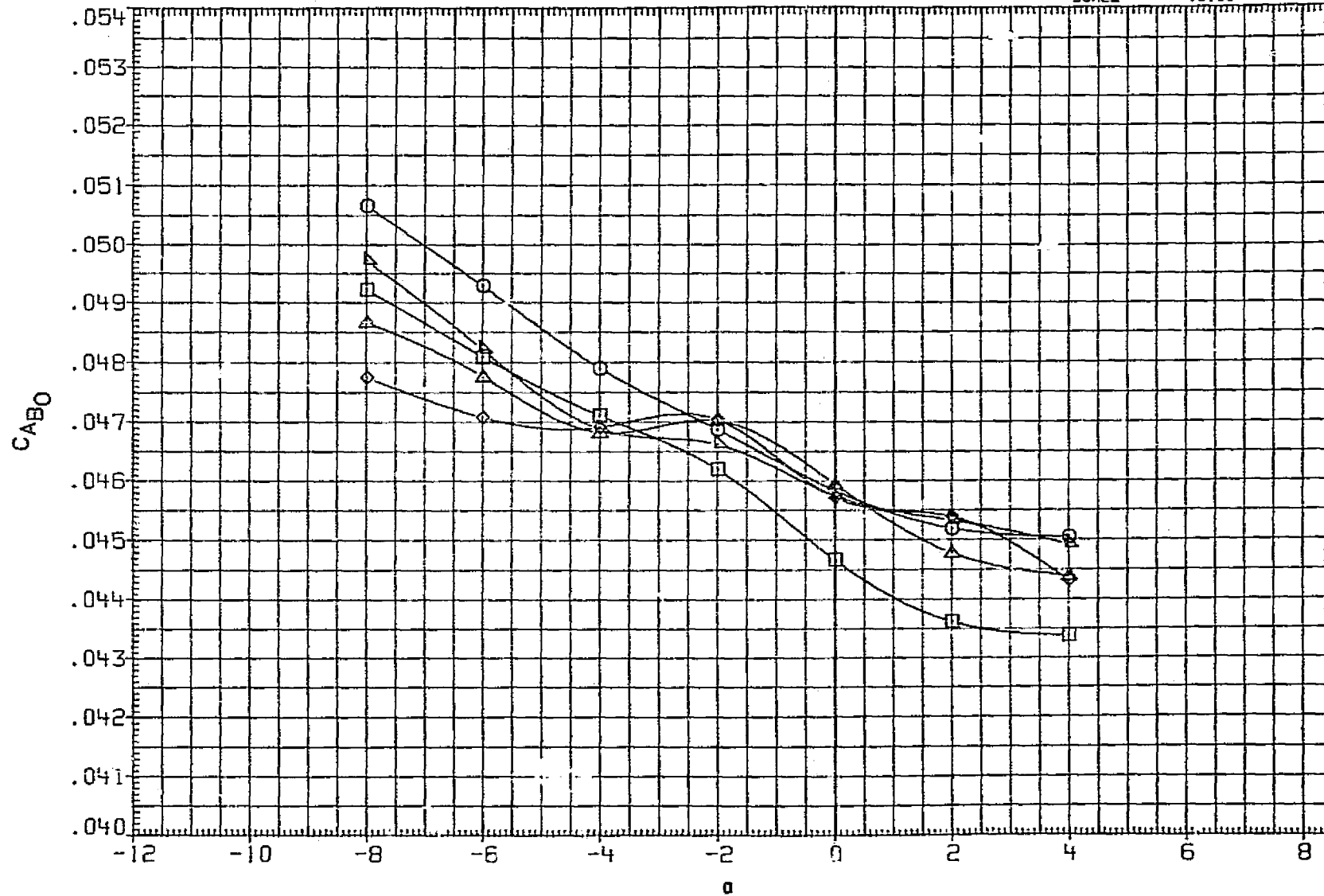


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50.FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0800	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0800	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

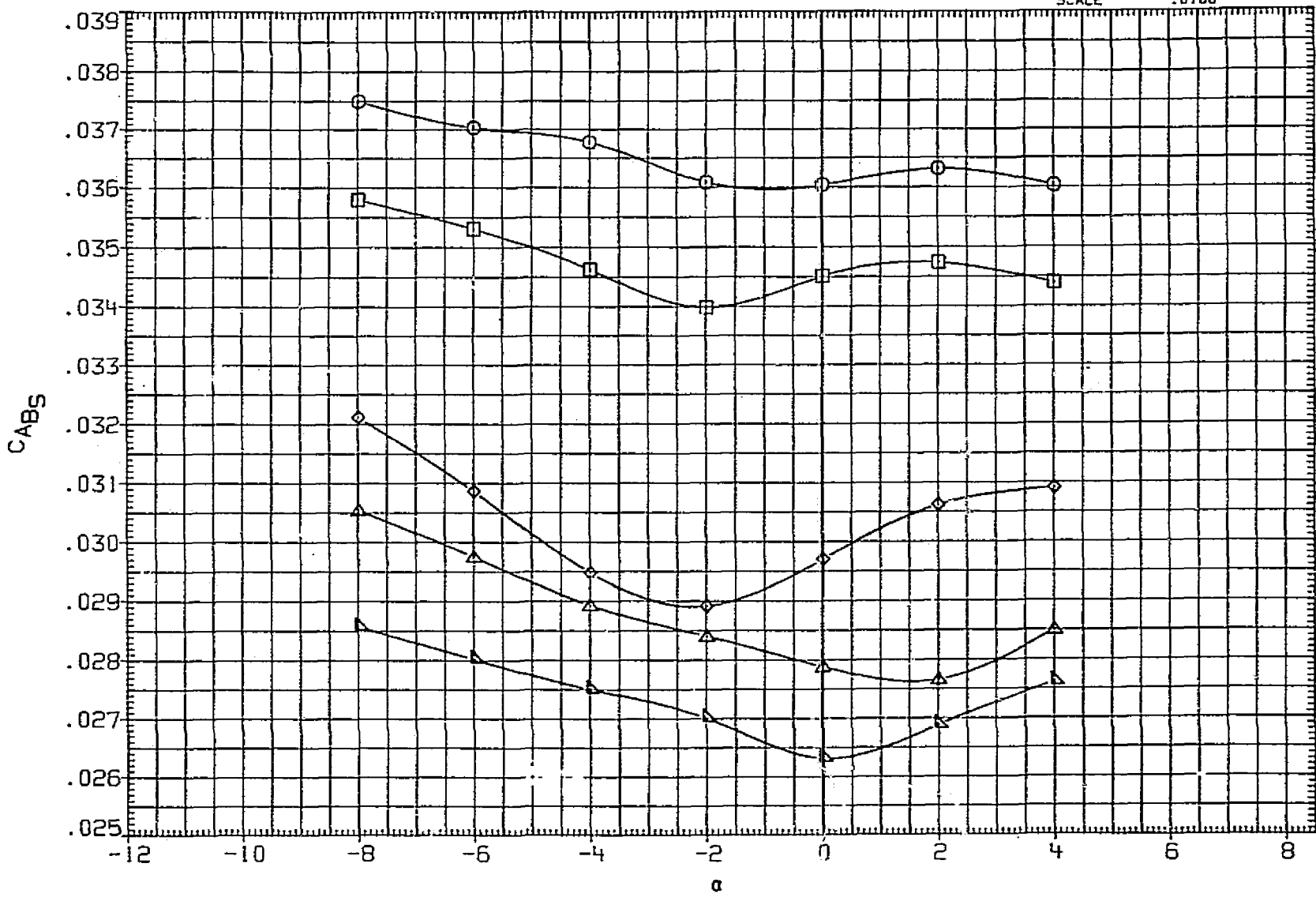


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJB08	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

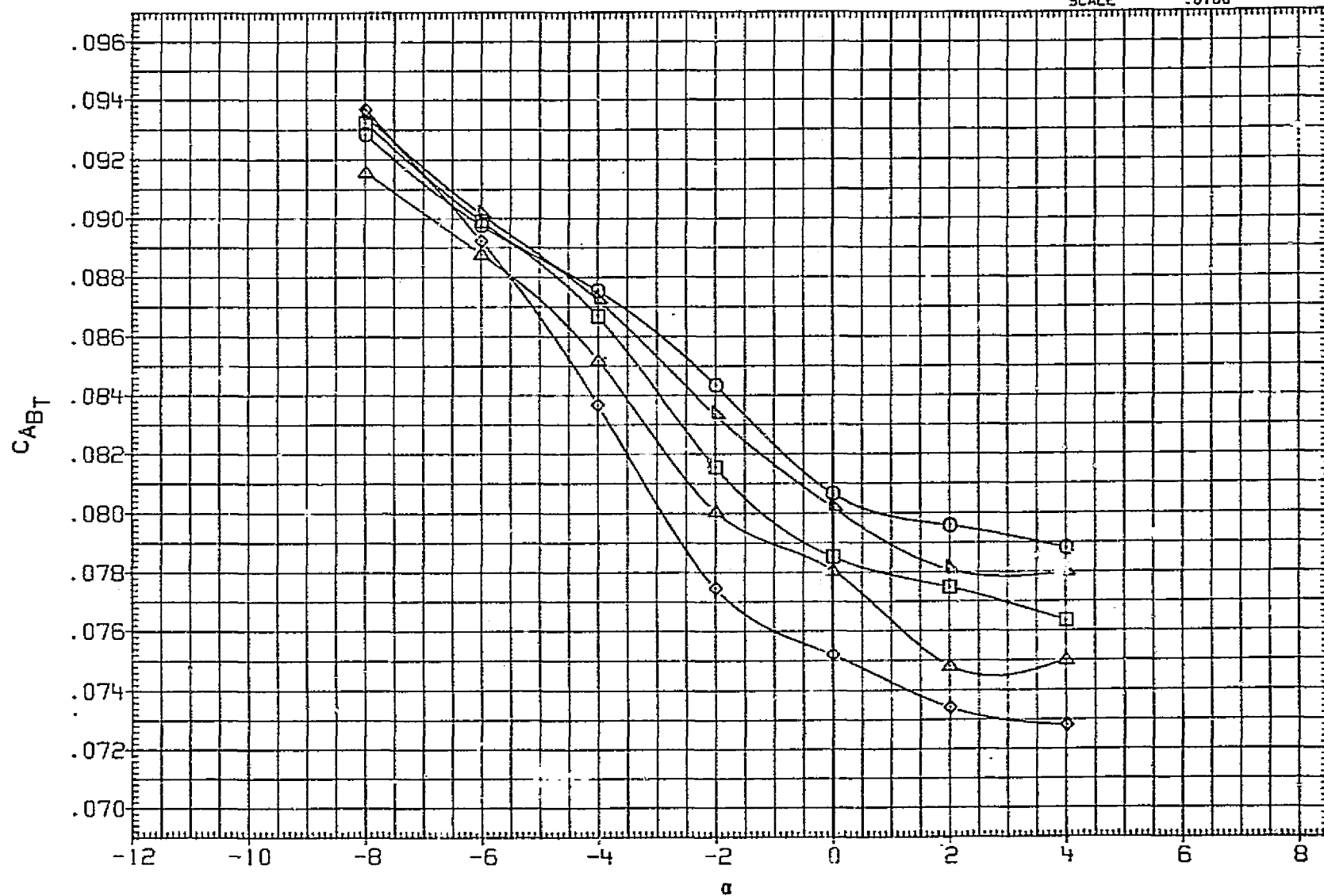


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJB08	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	975.0000	IN. XT
MJJB11	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

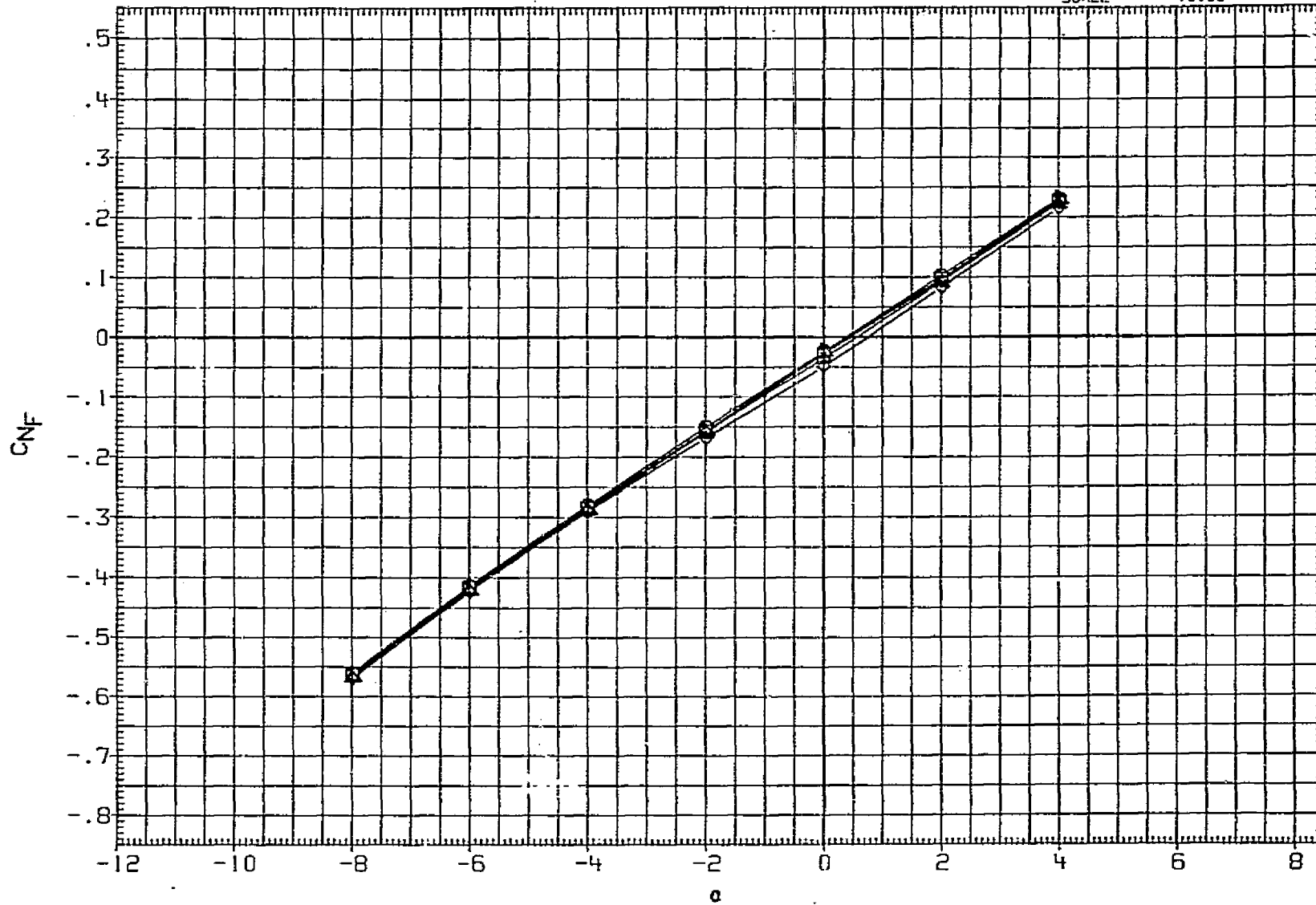


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB07	○ LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF 2690.0000 SQ.FT.
MJJB08	□ LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF 1290.3000 INCHES
MJJB09	◇ LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF 1290.3000 INCHES
MJJB10	△ LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XHRP 976.0000 IN. XT
MJJB11	▽ LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YHRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

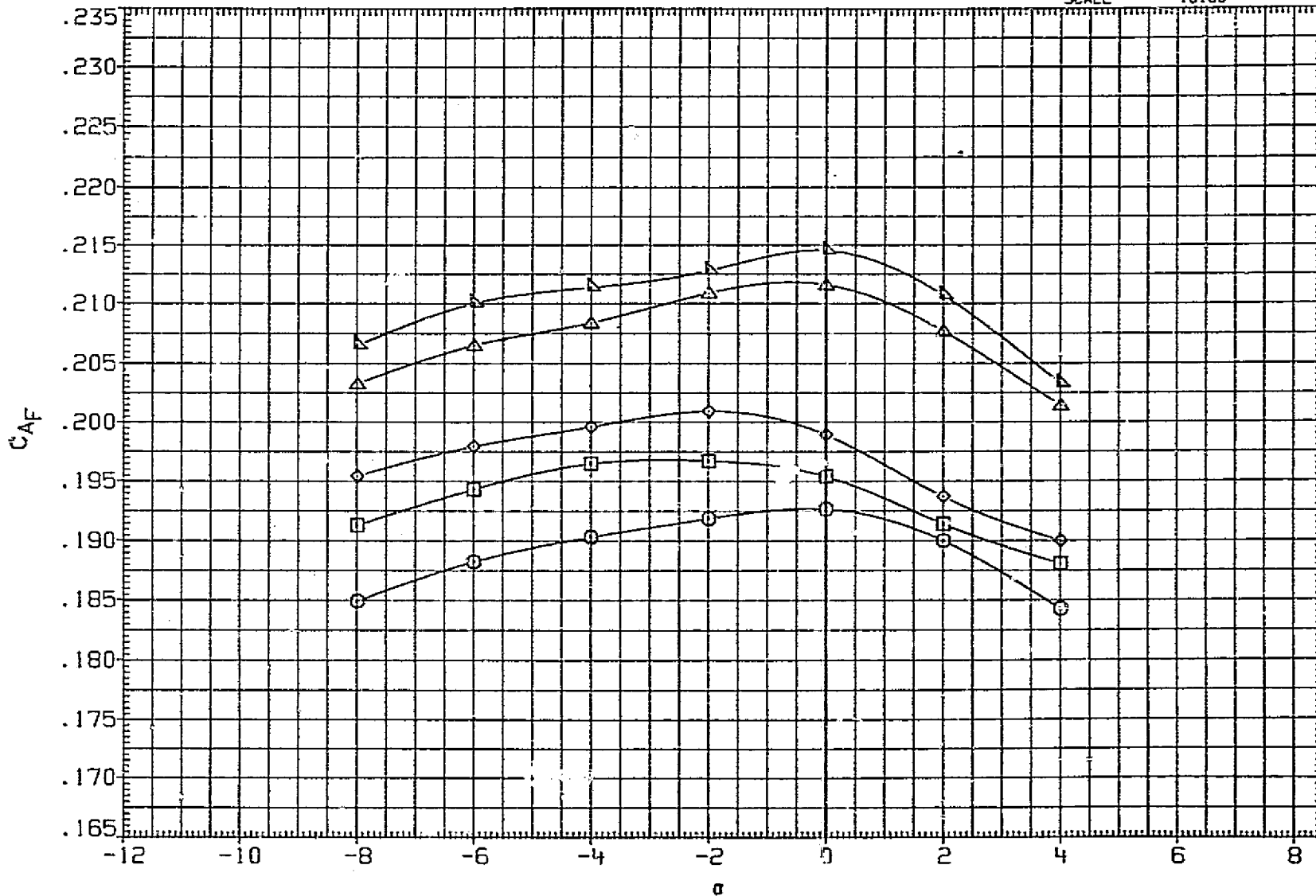


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ807	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50.FT.
MJJ808	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJ809	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJ810	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJ811	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

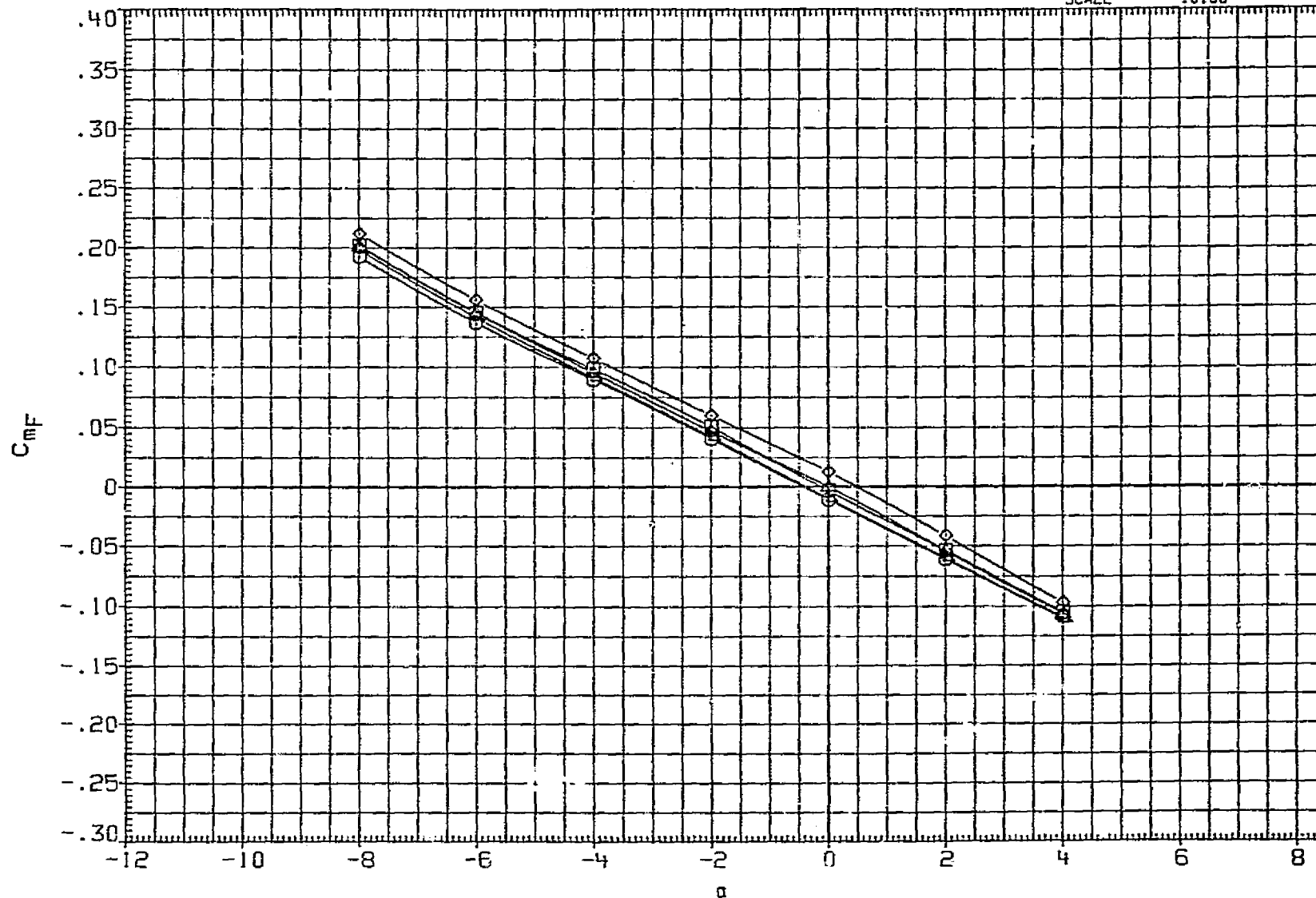


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJ807	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ. FT.
MJJ808	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJ809	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJ810	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJ811	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

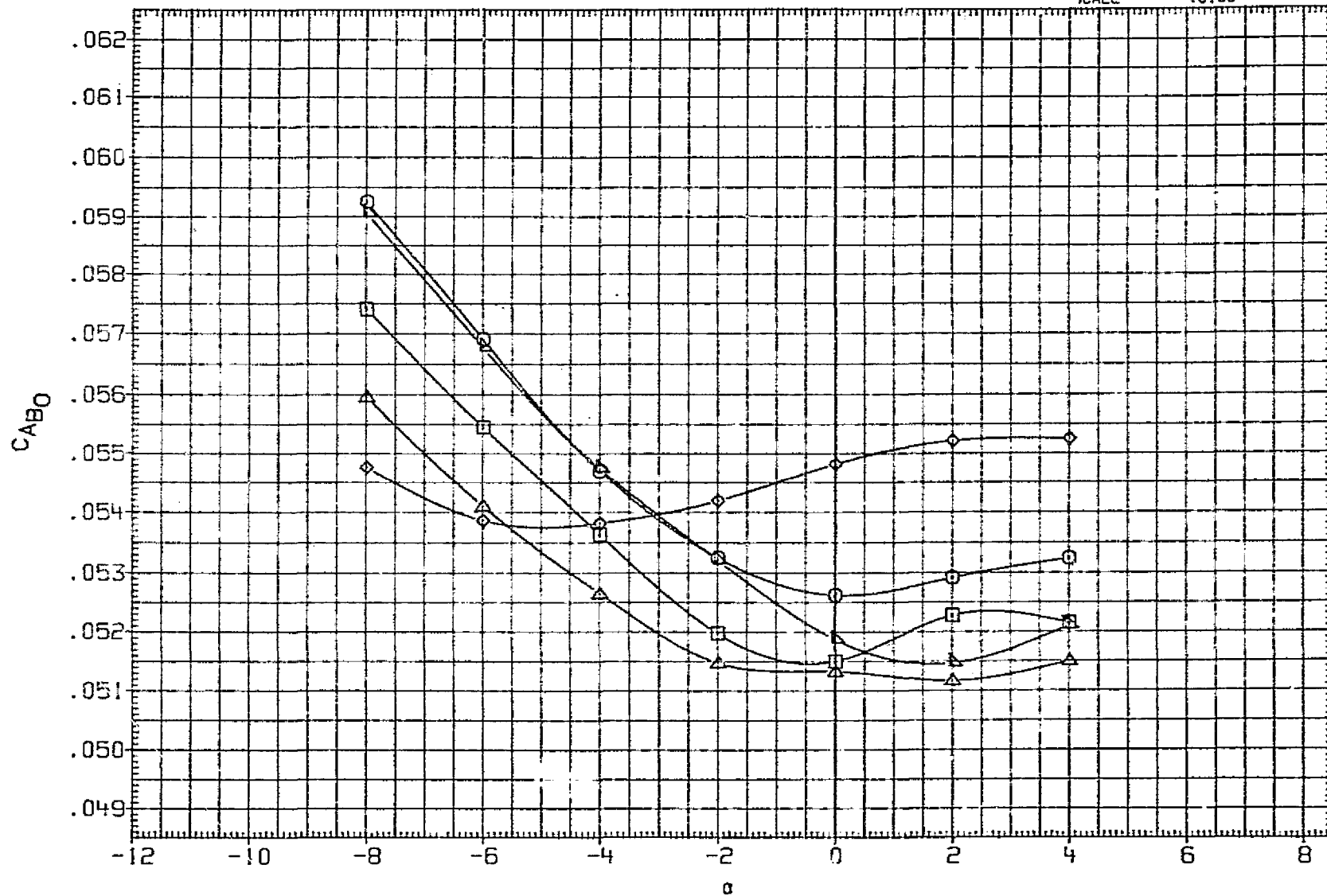


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

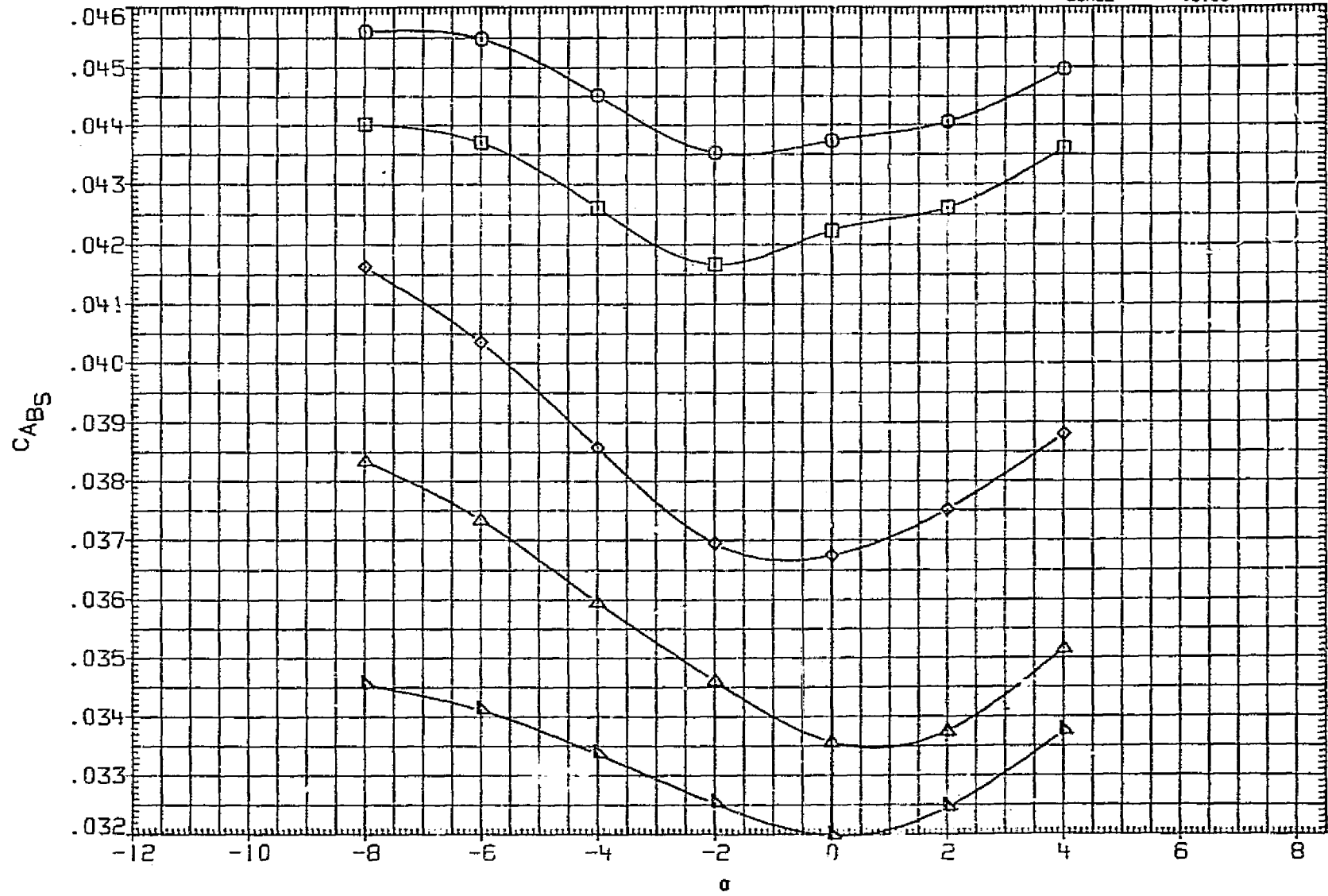


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	SREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	5.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. Y1
								ZMRP	400.0000	IN. Z1
								SCALE	.0100	

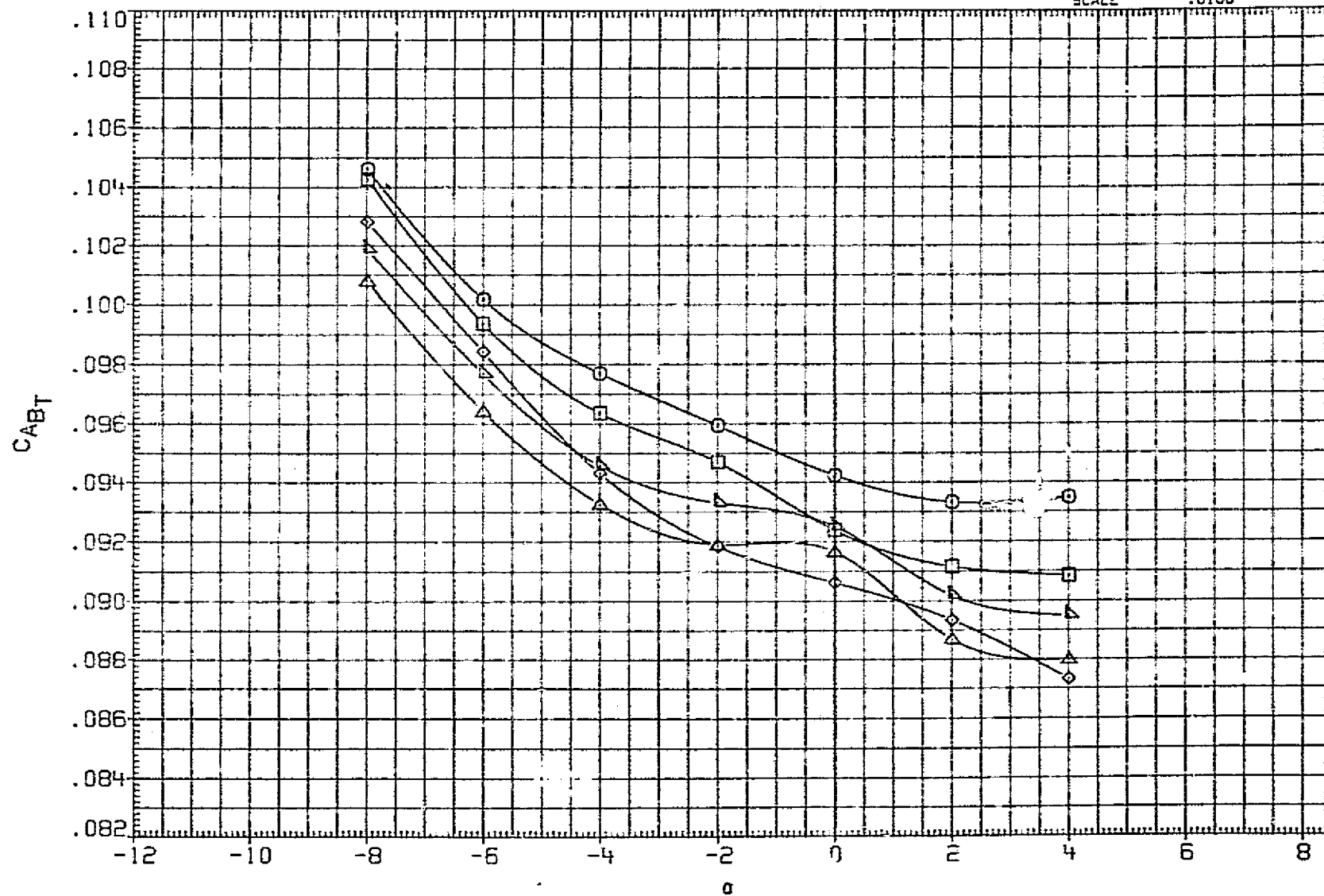


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF 2690.0000 SQ.FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF 1290.3000 INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF 1290.3000 INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP 976.0000 IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .3100

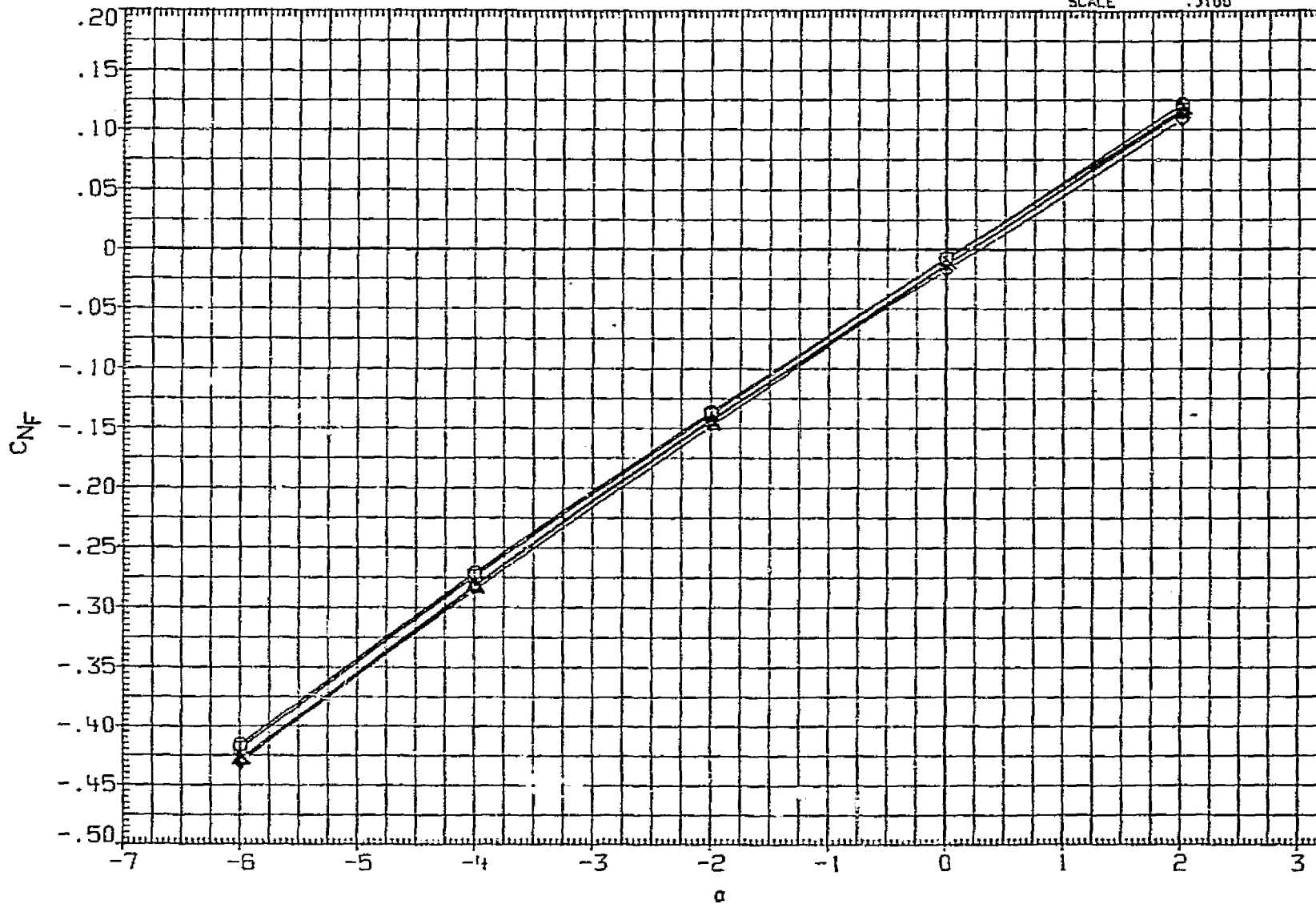


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LQ	ELV-RI	ELV-RQ	REFERENCE INFORMATION		
MJJ807	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2590.0000	50. FT.
MJJ808	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJ809	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJ810	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJ811	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

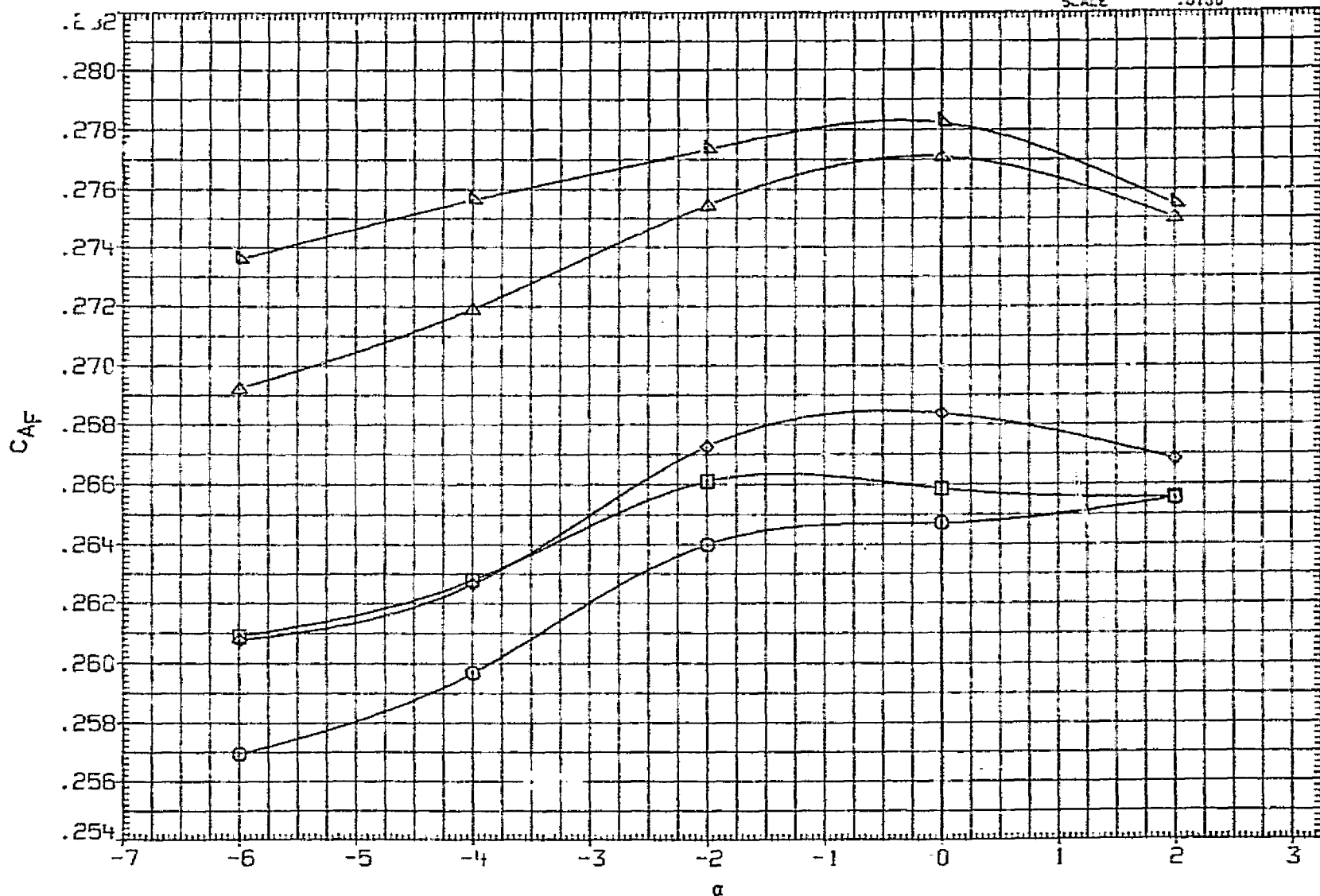


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	30.FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0106	

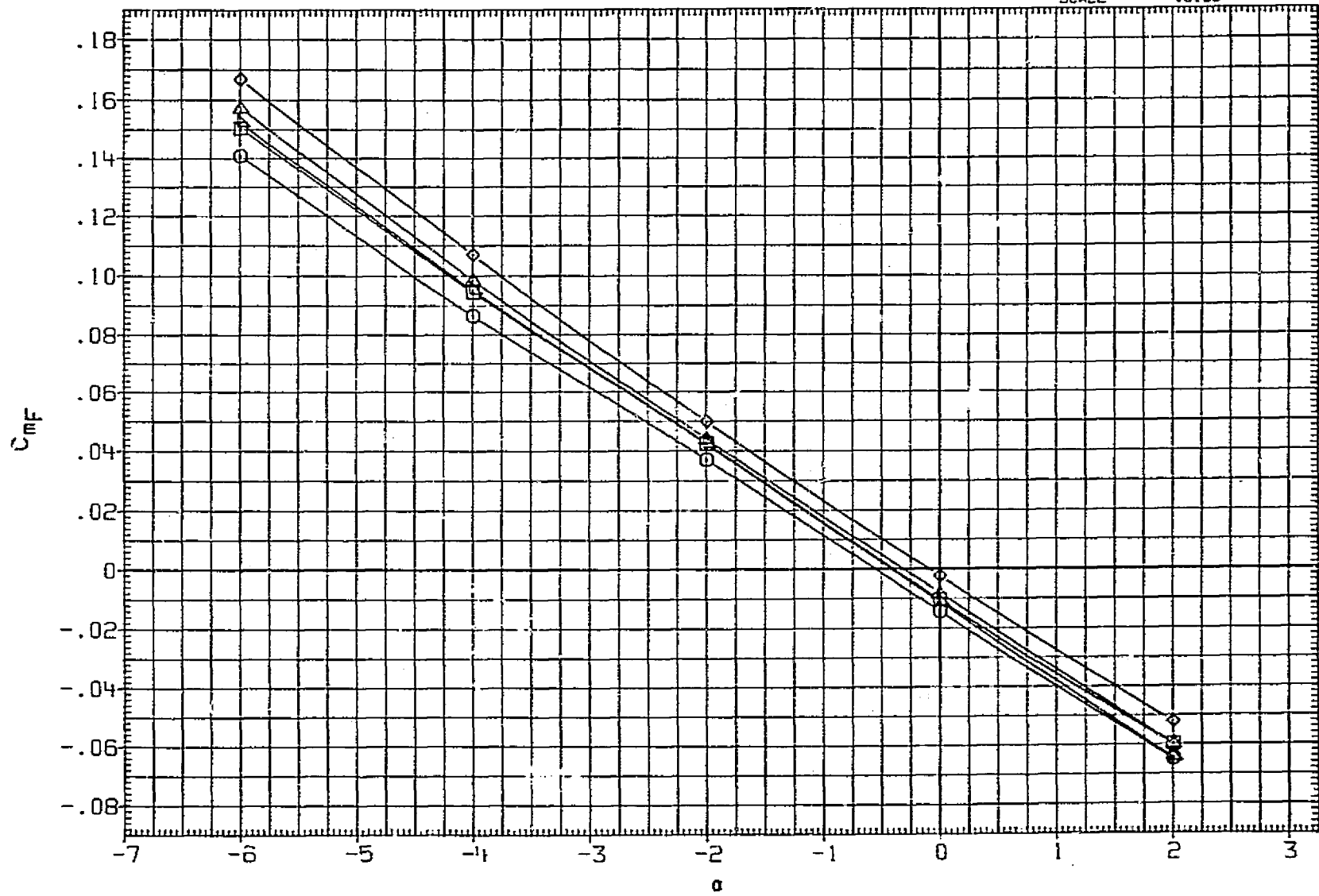


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ807	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJ808	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJ809	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJ810	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJ811	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

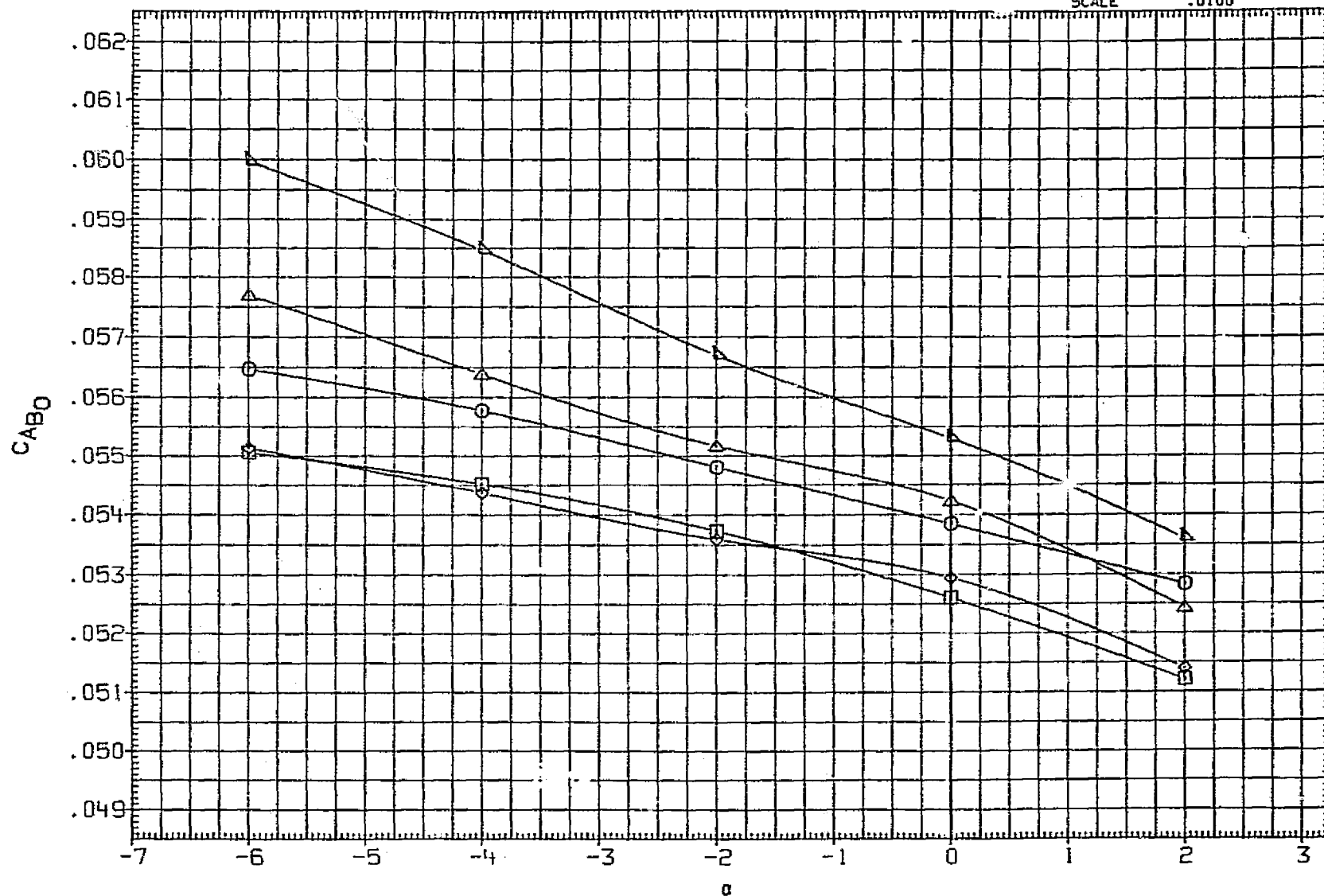


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SO. FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

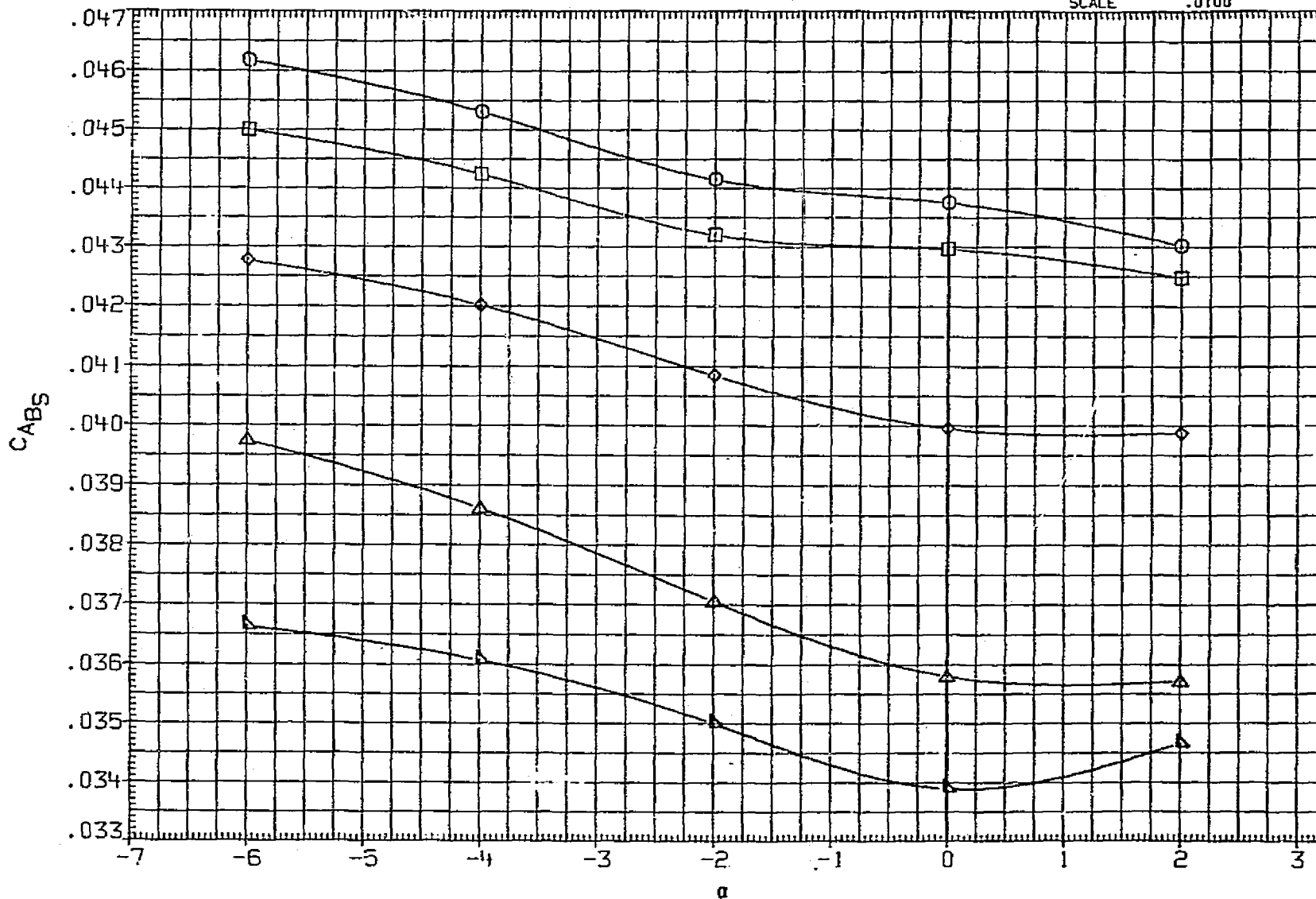


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJB08	□	LARC 8FT TPT 749 (A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1296.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

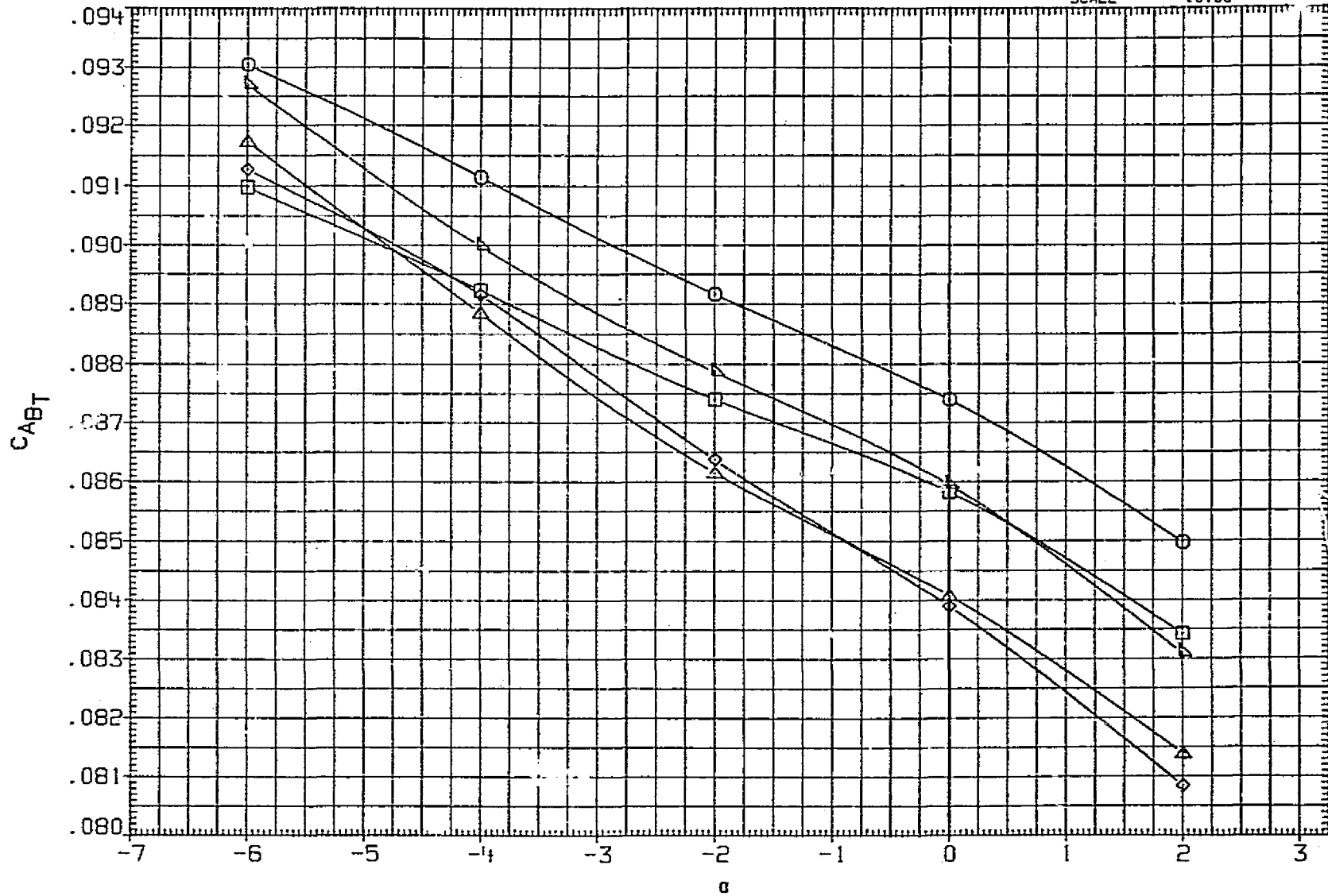


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	□	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJB08	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	○	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

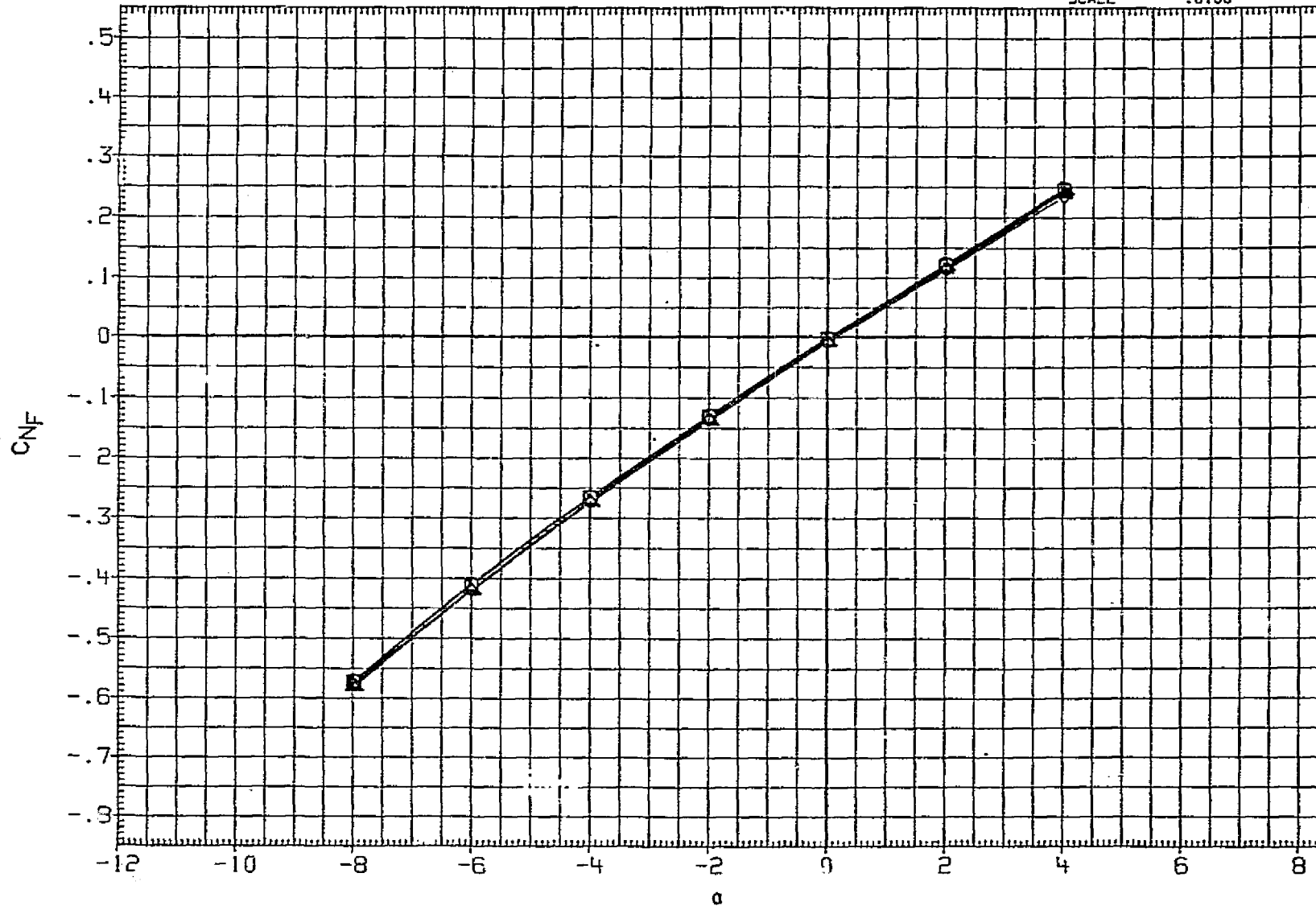


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

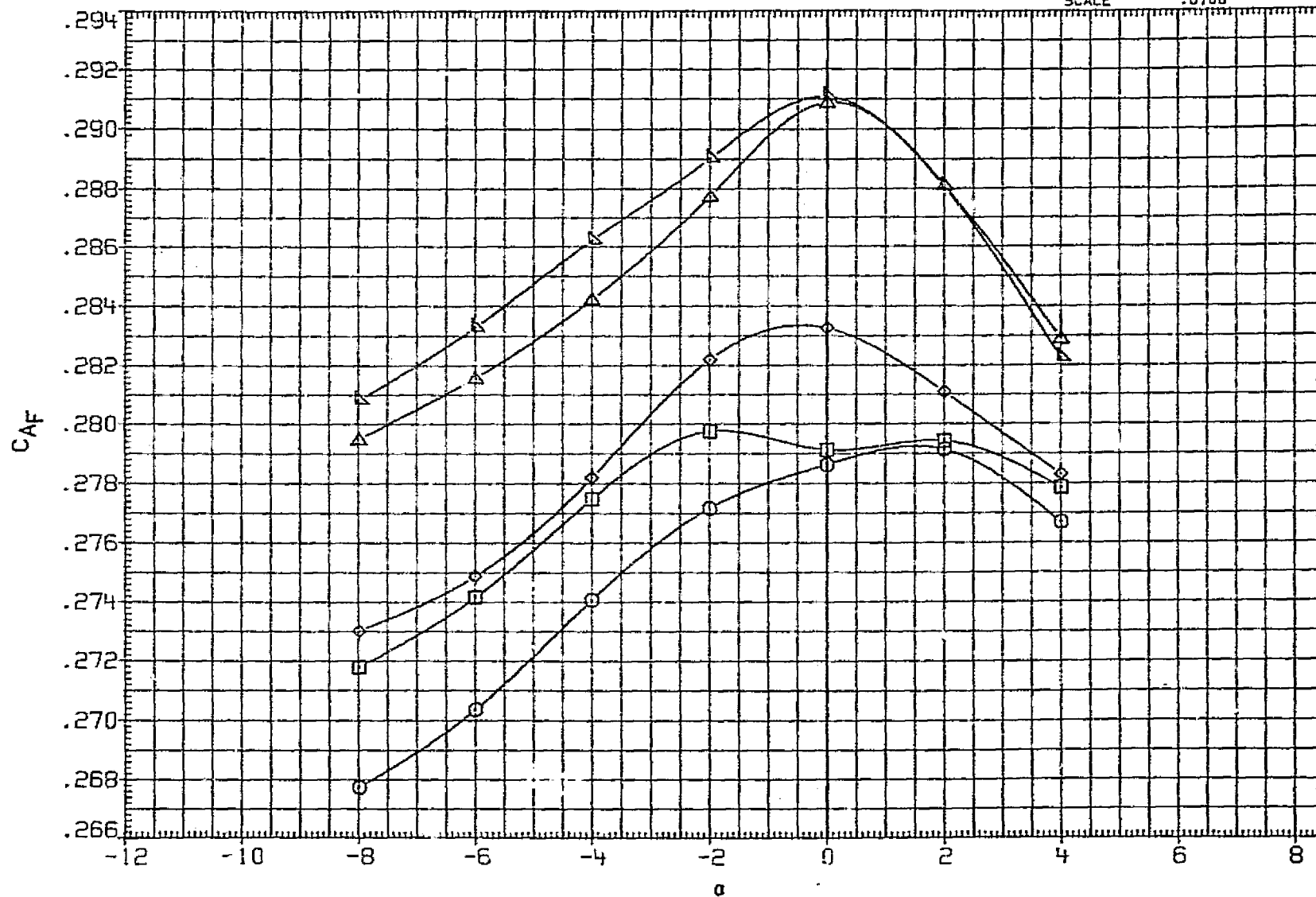


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	• REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50.FT.
MJJB08	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

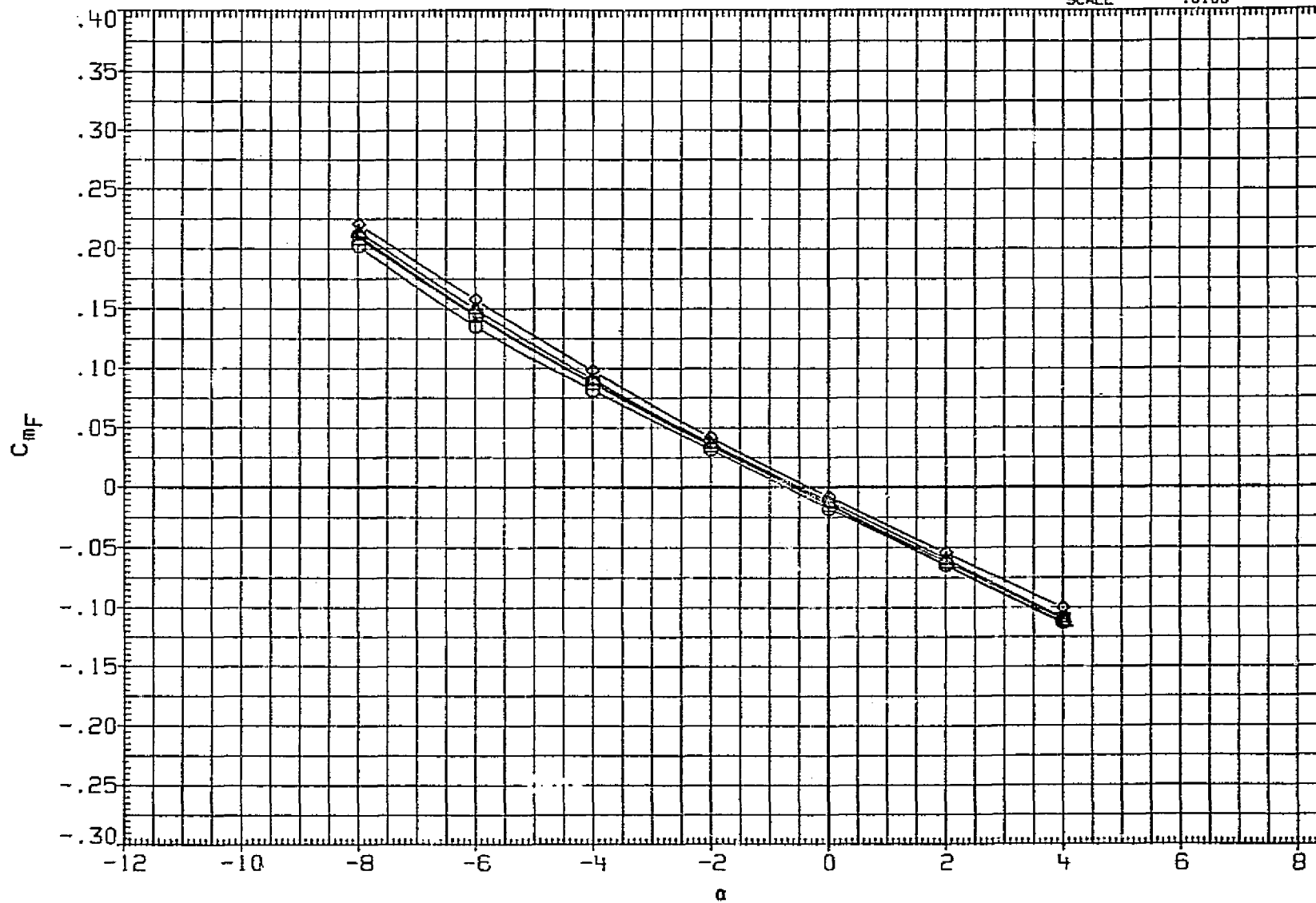


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2590.0000	SQ. FT.
MJJB08	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

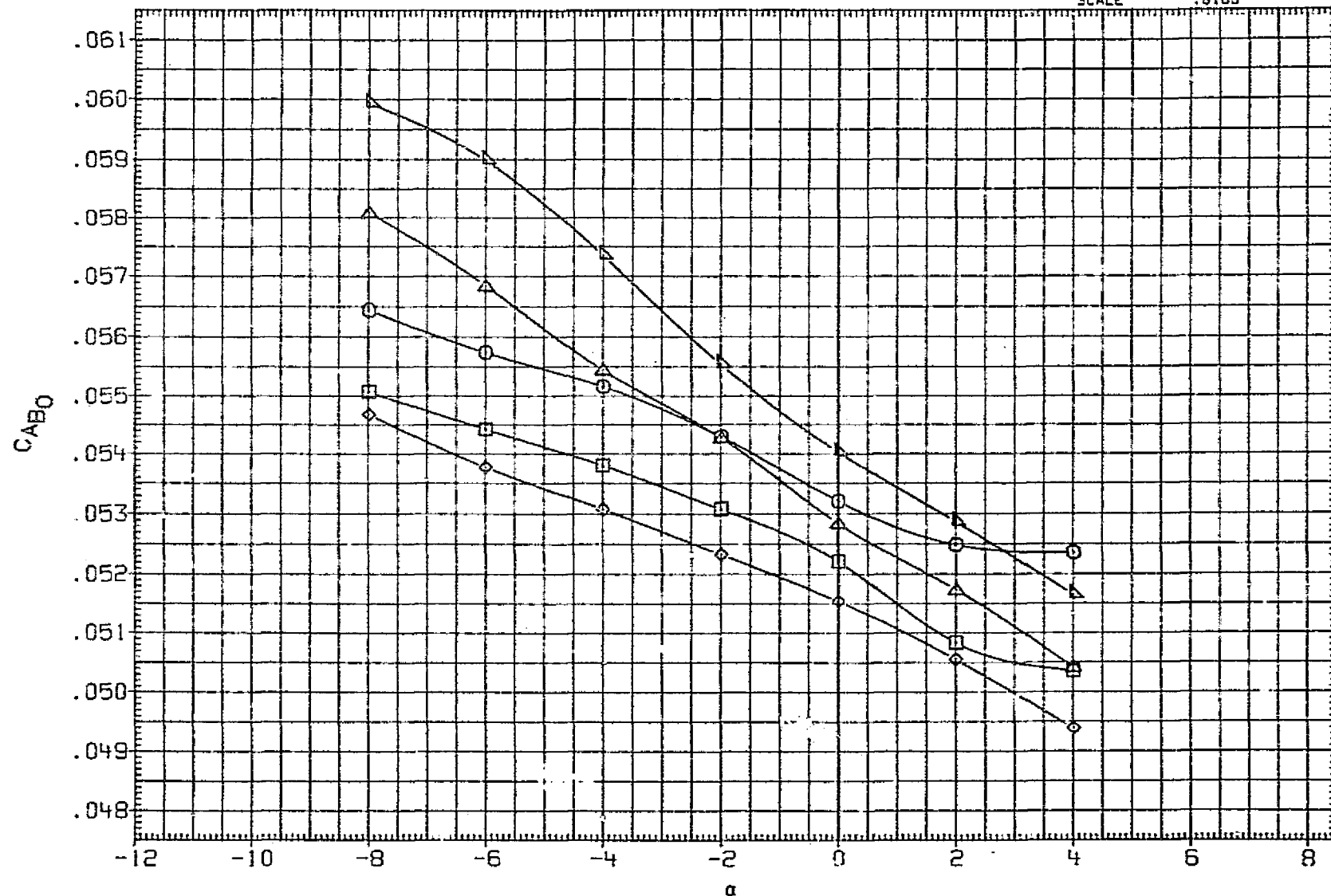


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJB08	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	936.0000	IN. XT
MJJB11	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

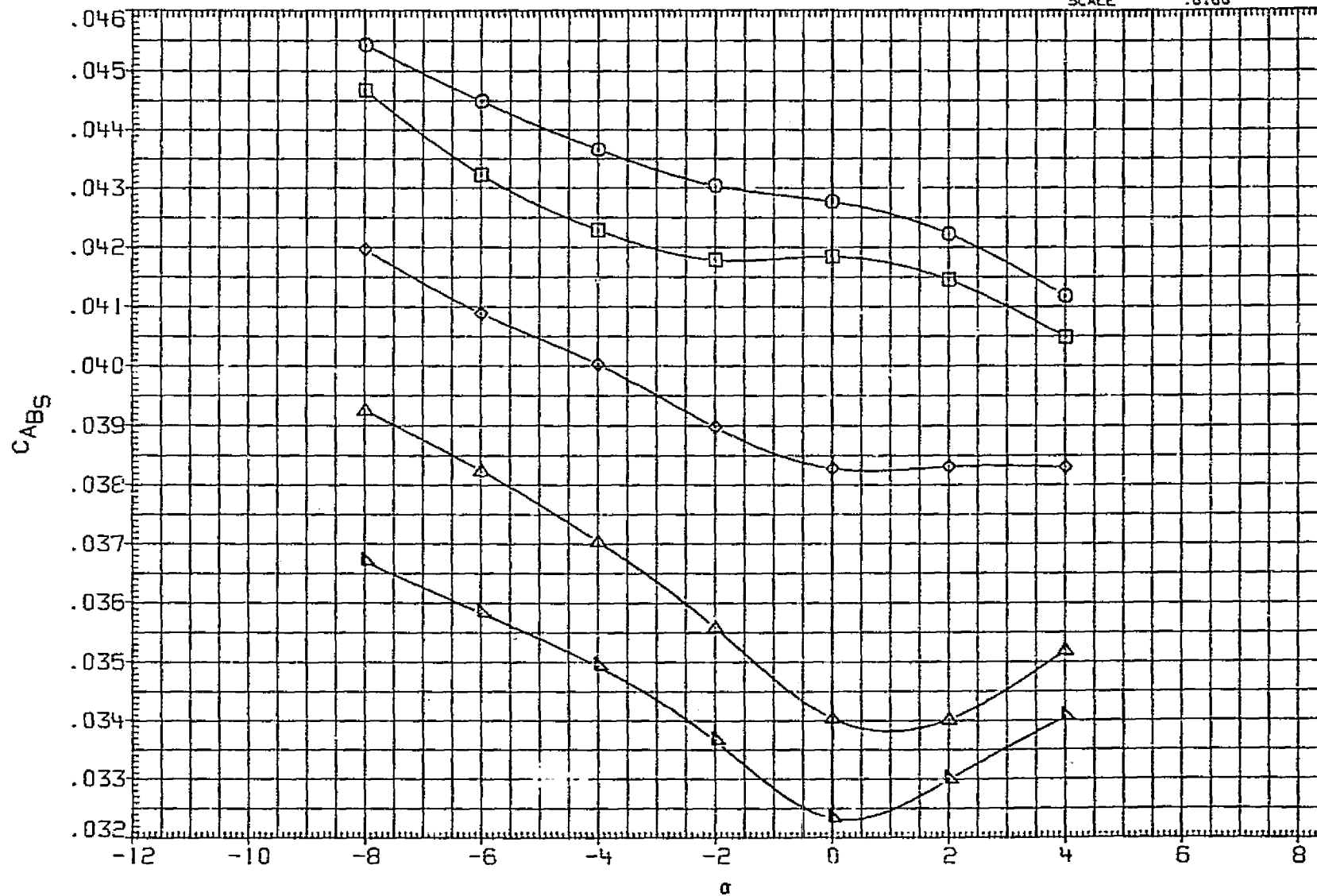


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJB08	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	975.0000	IN. XT
MJJB11	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

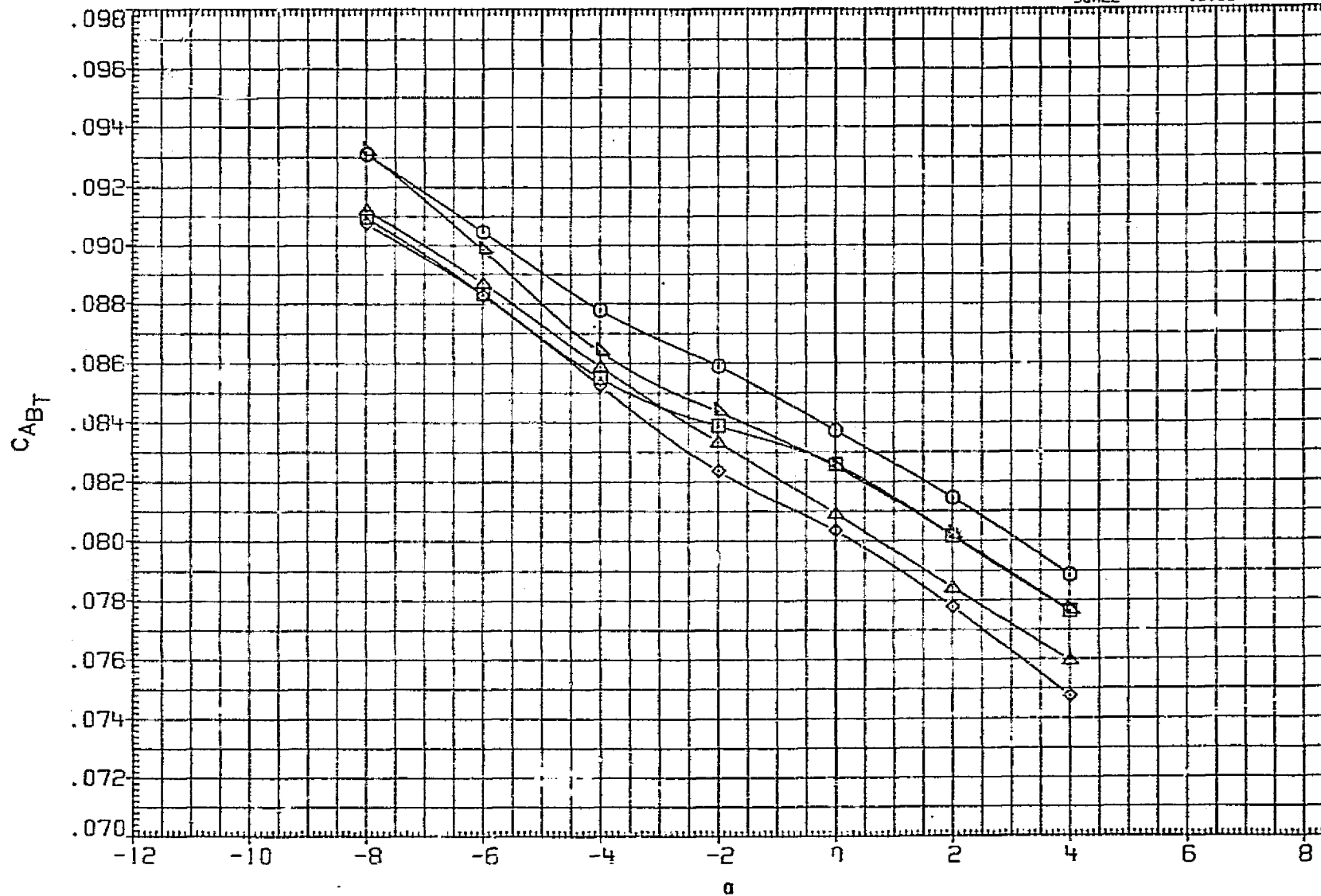


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	10.000	14.000	10.000	14.000	SREF	2690.0000	50.FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

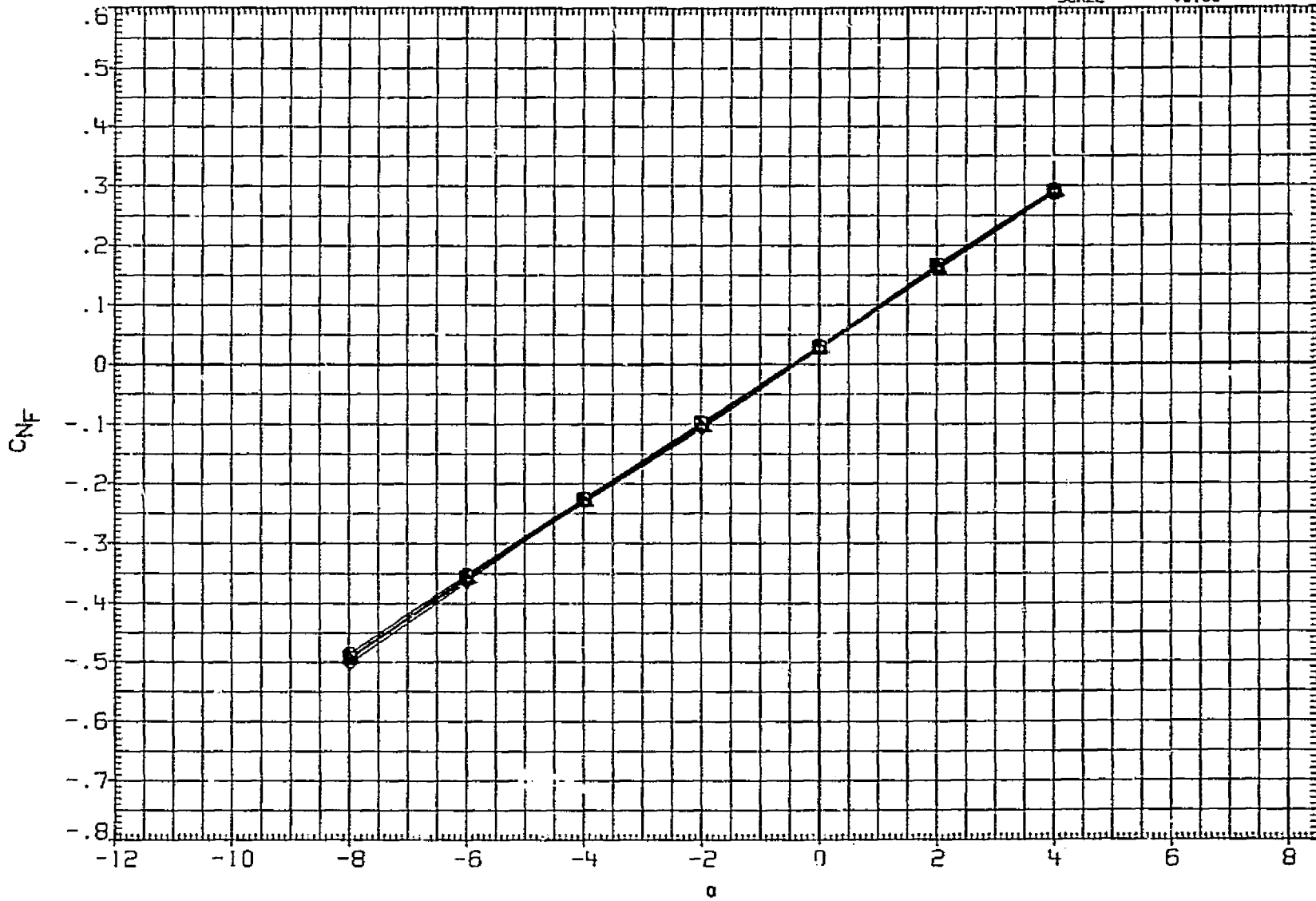


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	50.FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMPP	976.0000	IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMPP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

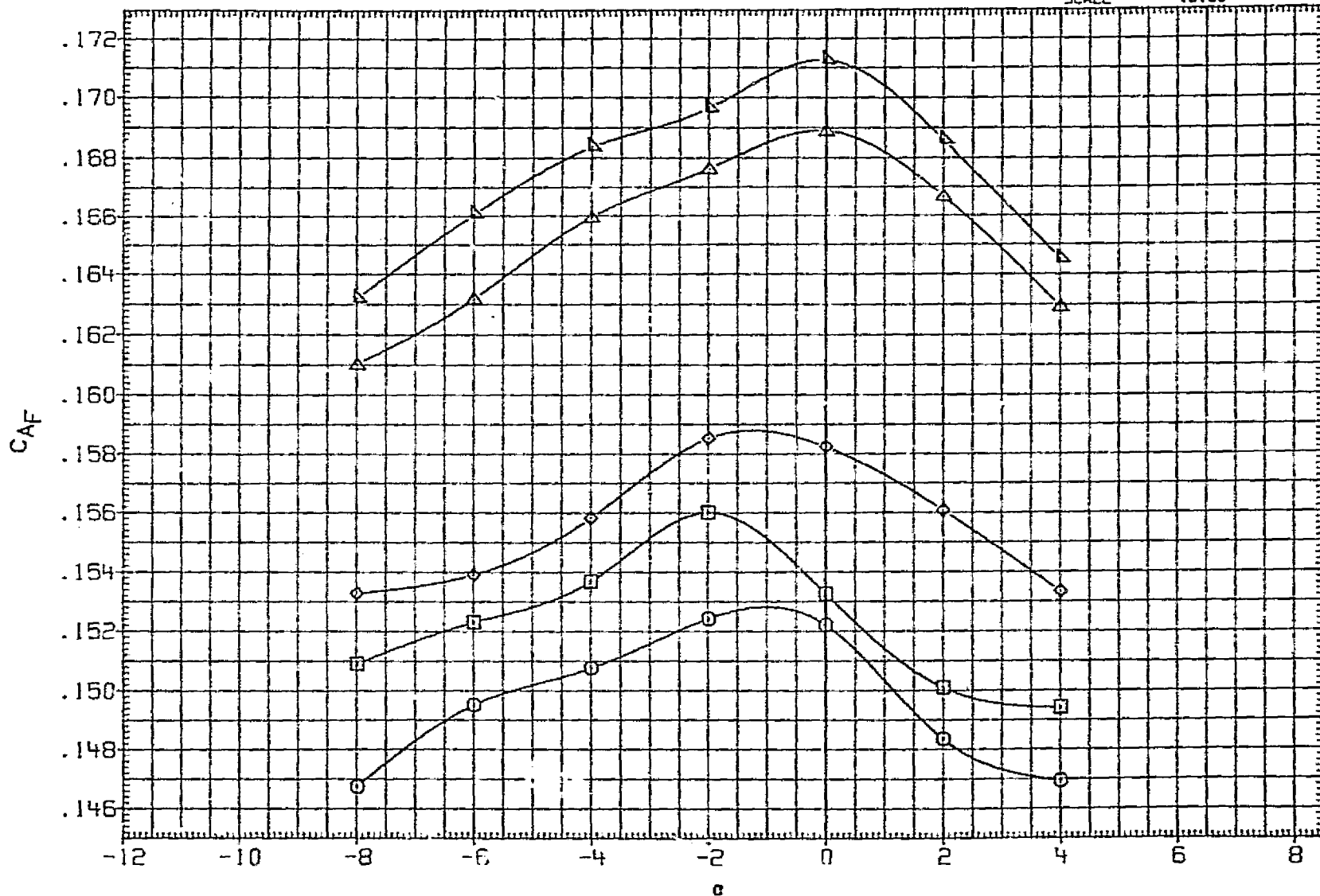


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○	LARC 8F / TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	50.FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

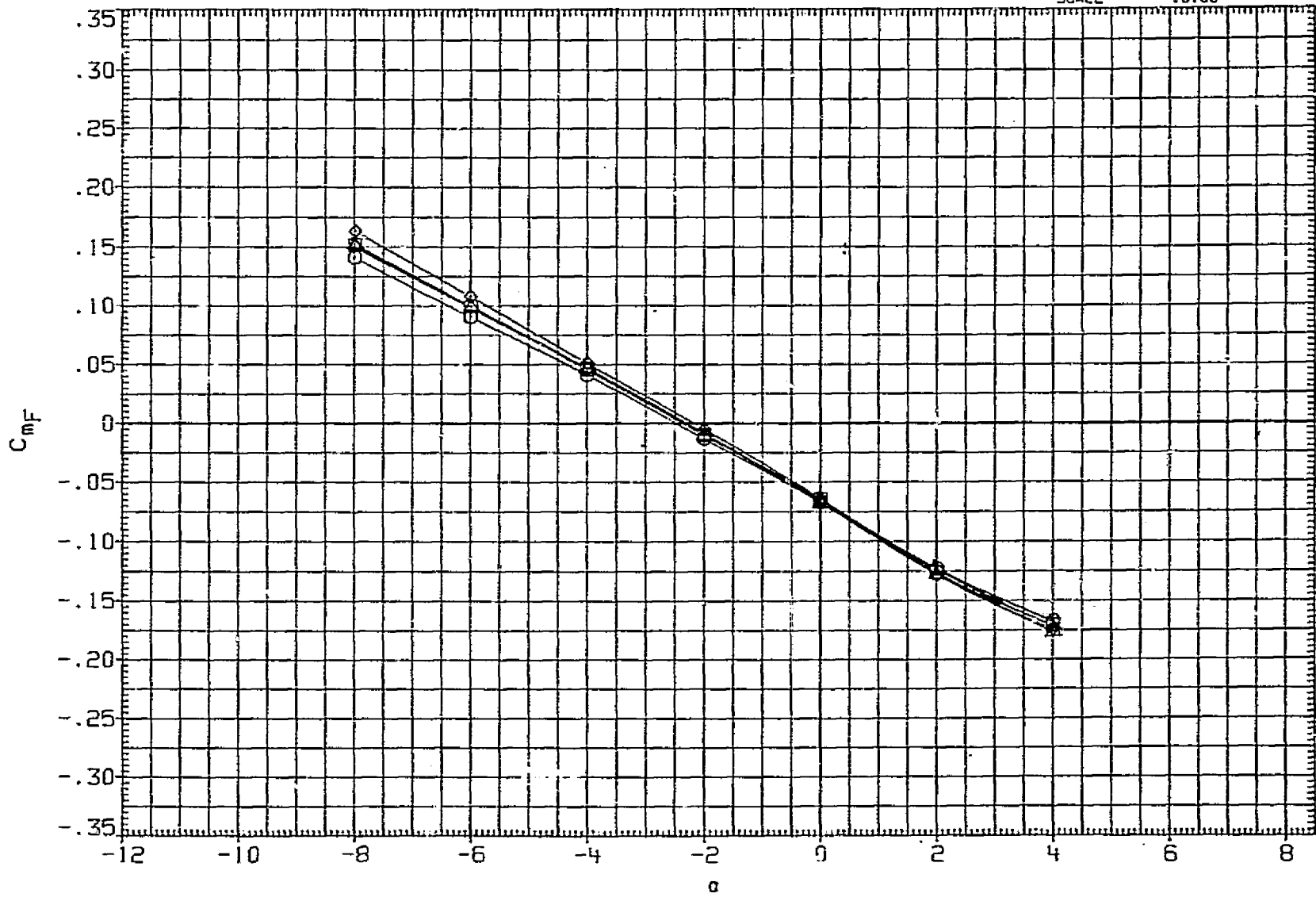


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○ LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	50. FT.
MJJB13	□ LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇ LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△ LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.8000	IN. XT
MJJB16	▽ LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

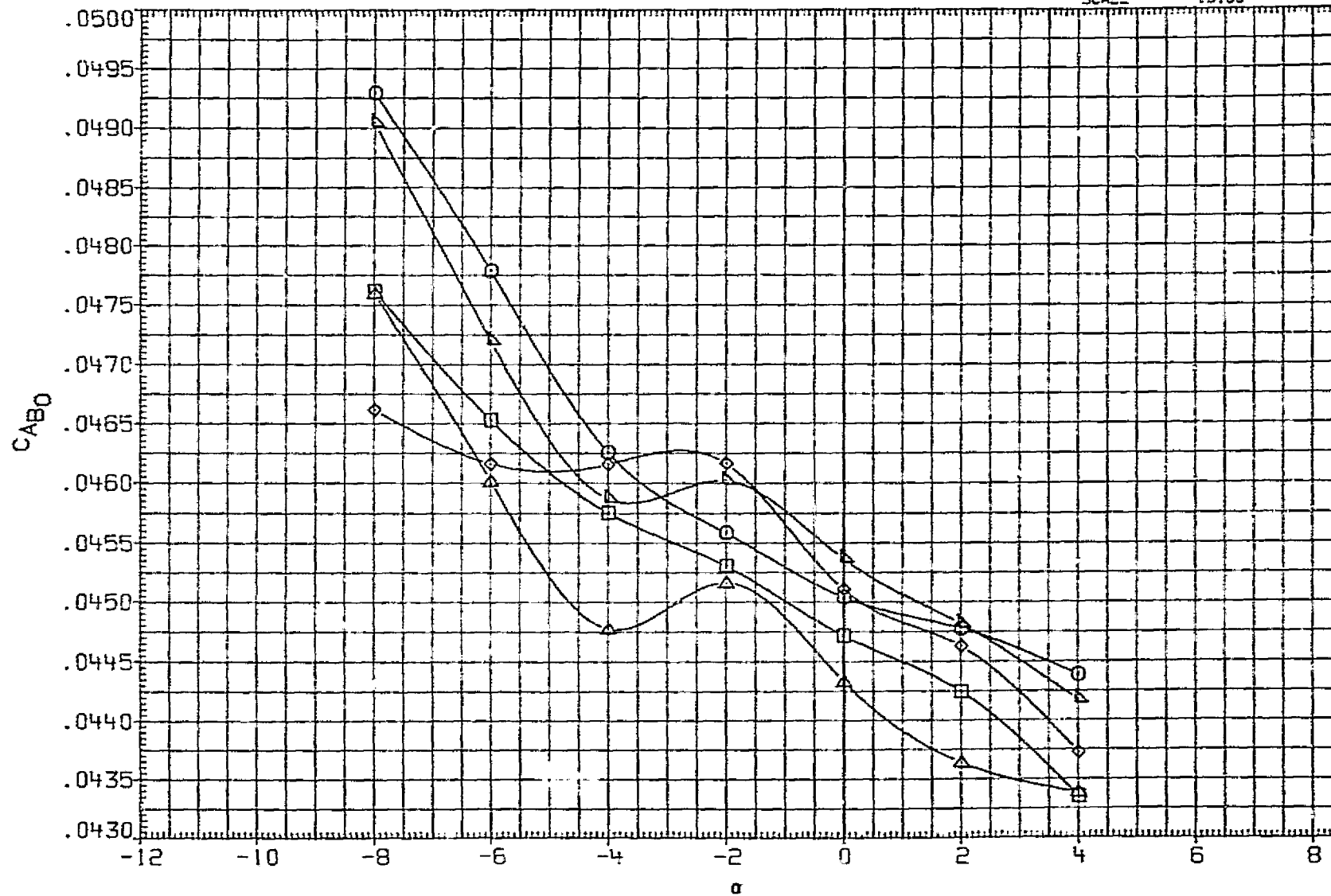


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF 2690.0000 SQ.FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF 1290.3000 INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF 1290.3000 INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	YMRP 976.0000 IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP .0000 IN. YT
								ZMPP 400.0000 IN. ZT
								SCALE .0100

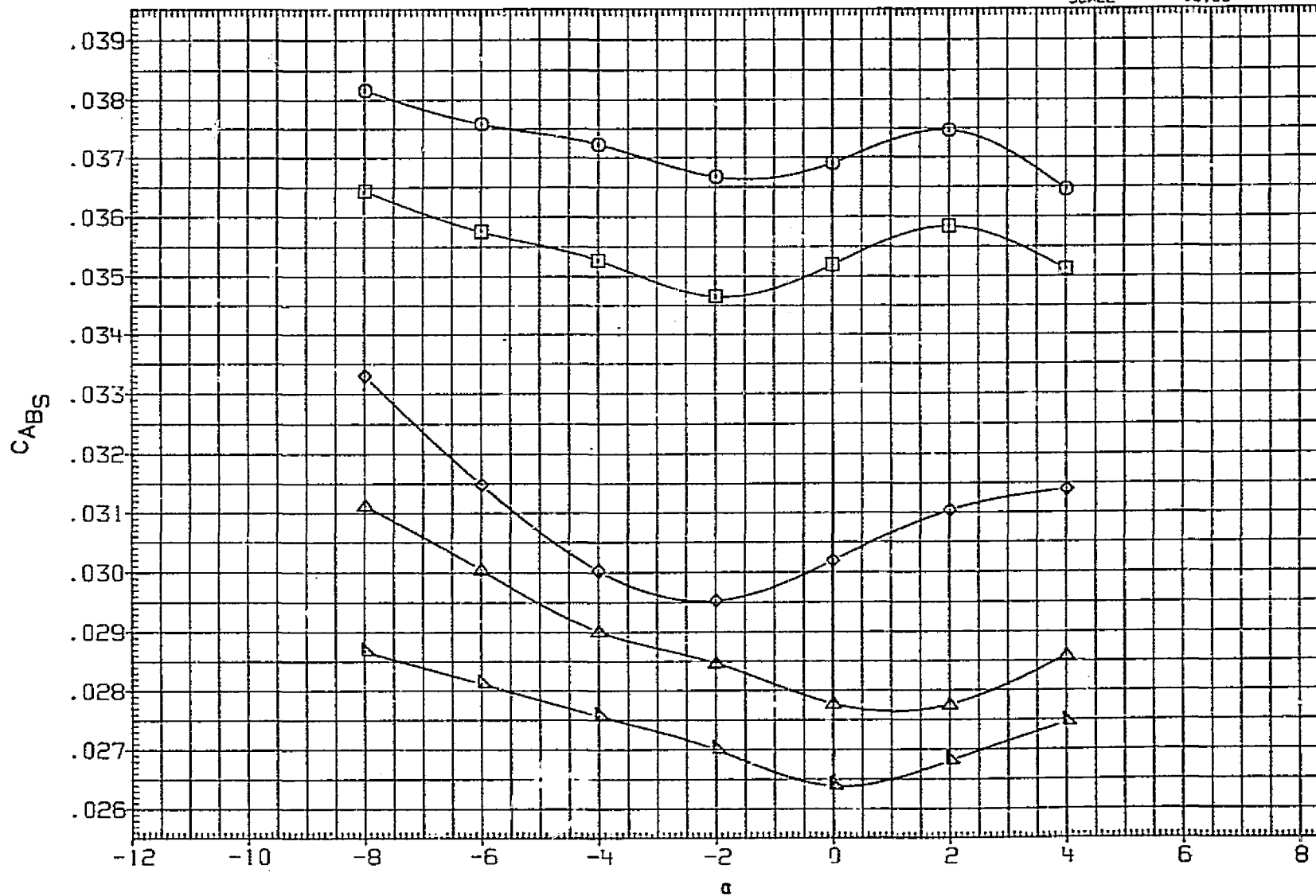


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	SQ.FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

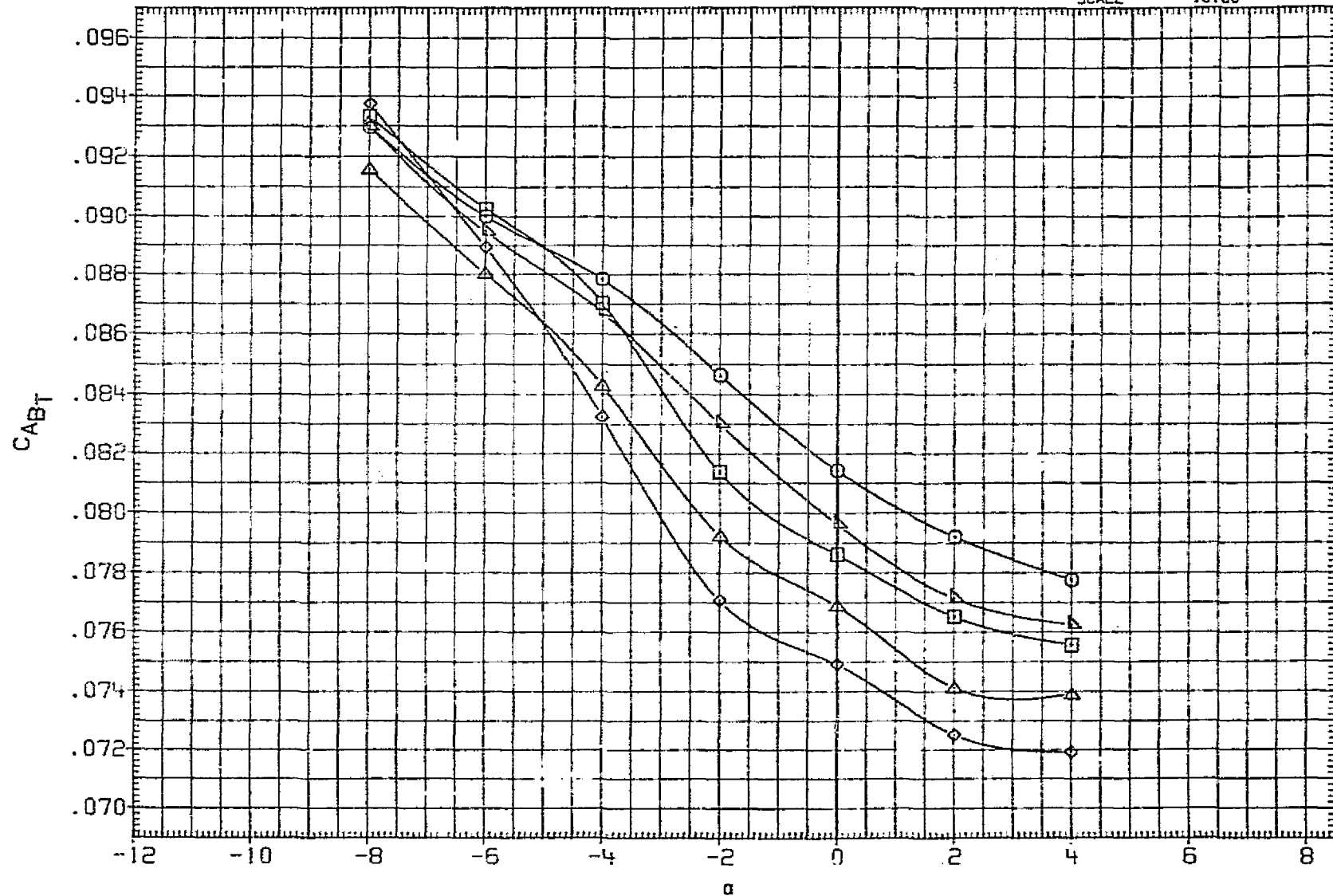


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJB12	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	50.FT.
MJJB13	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

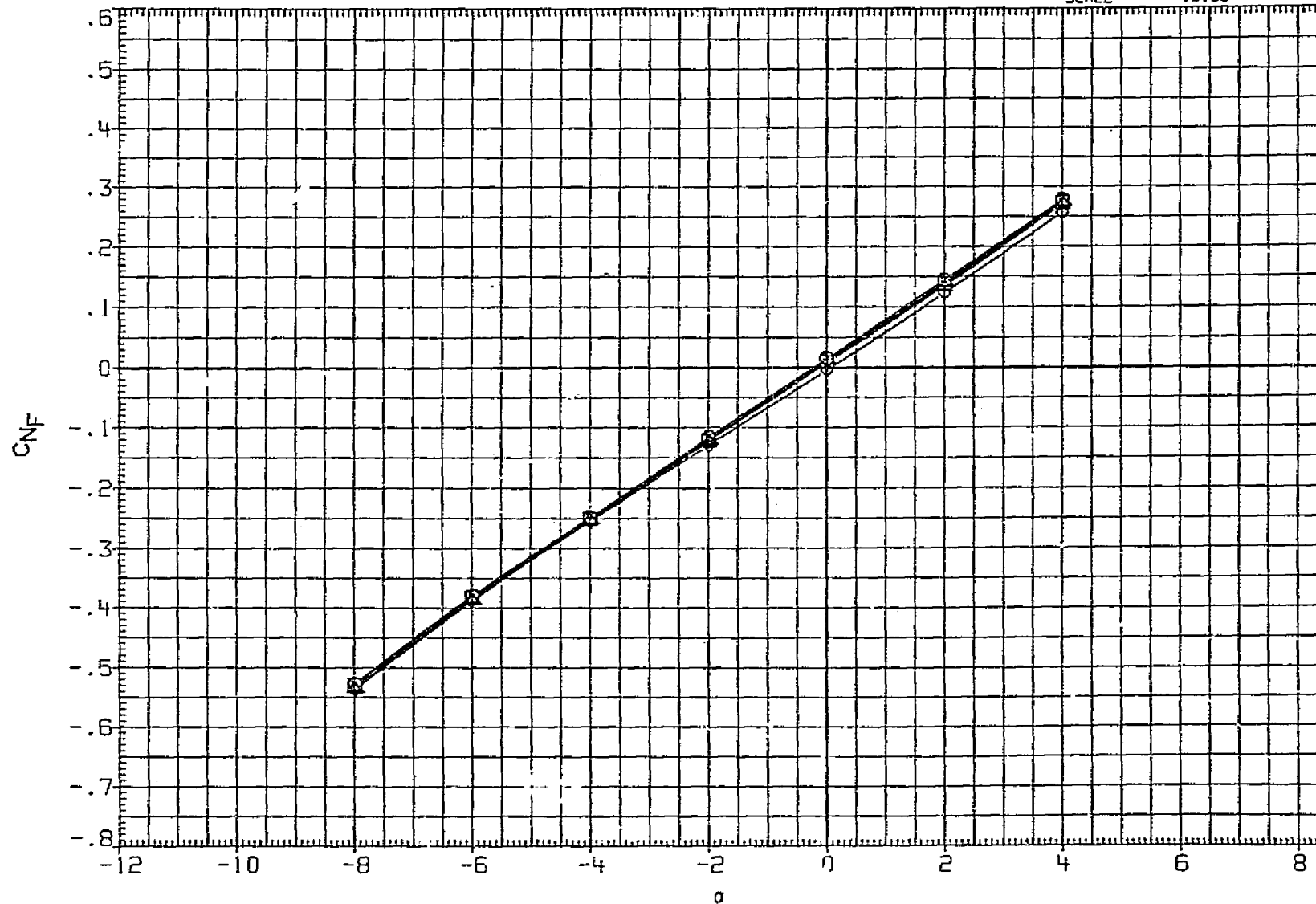


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	SQ. FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

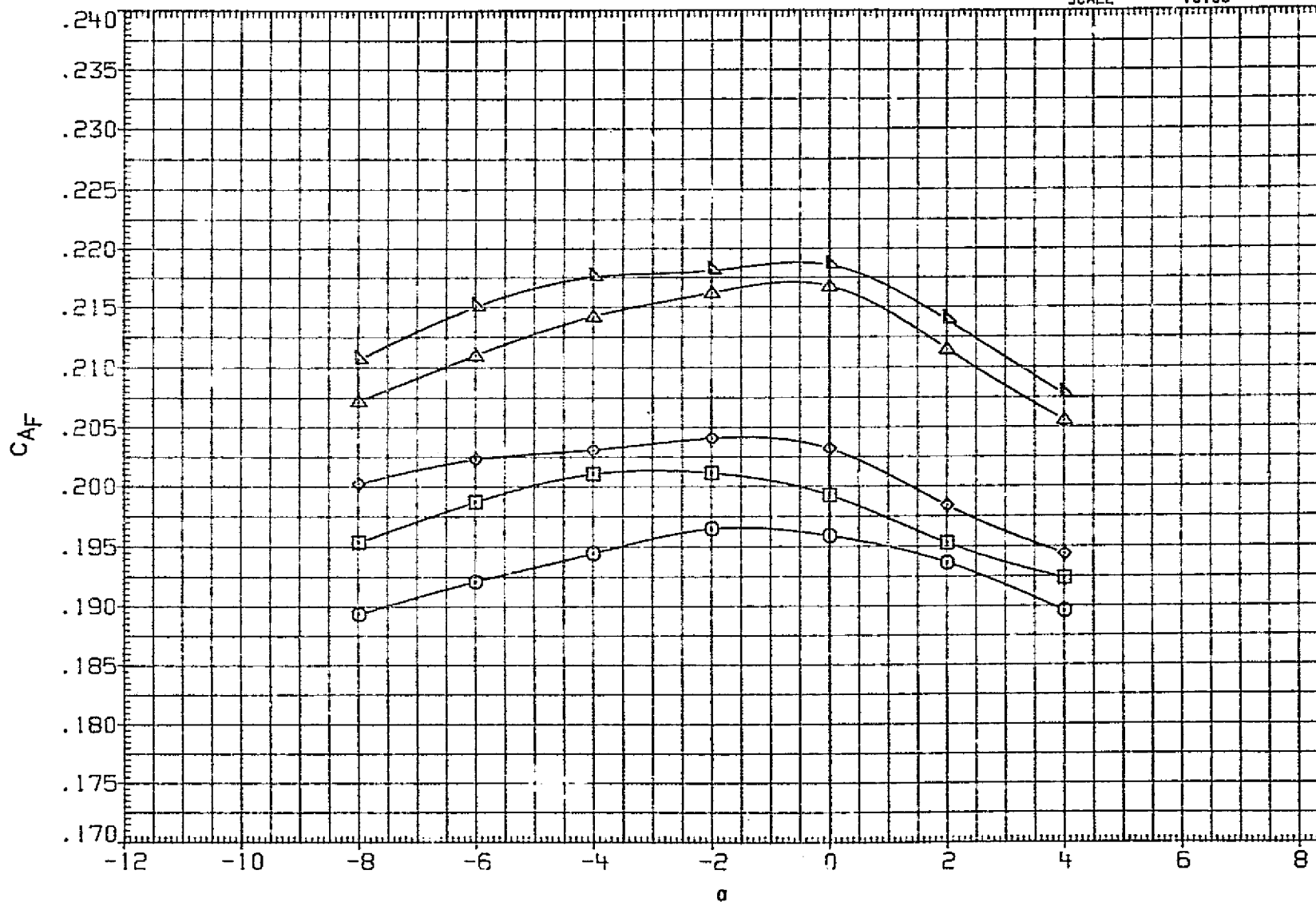


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	SQ.FT.
MJJB13	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

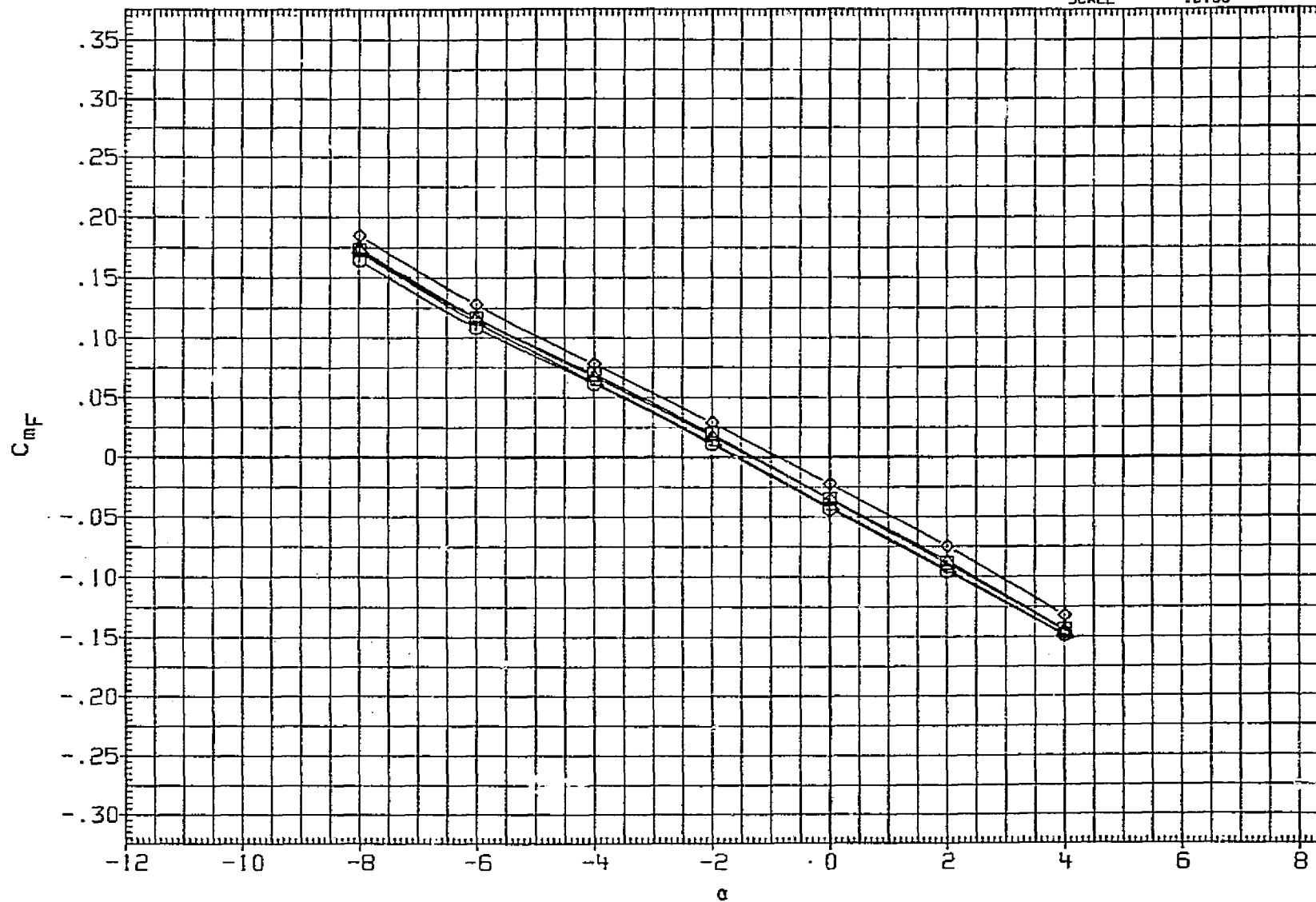


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	50. FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

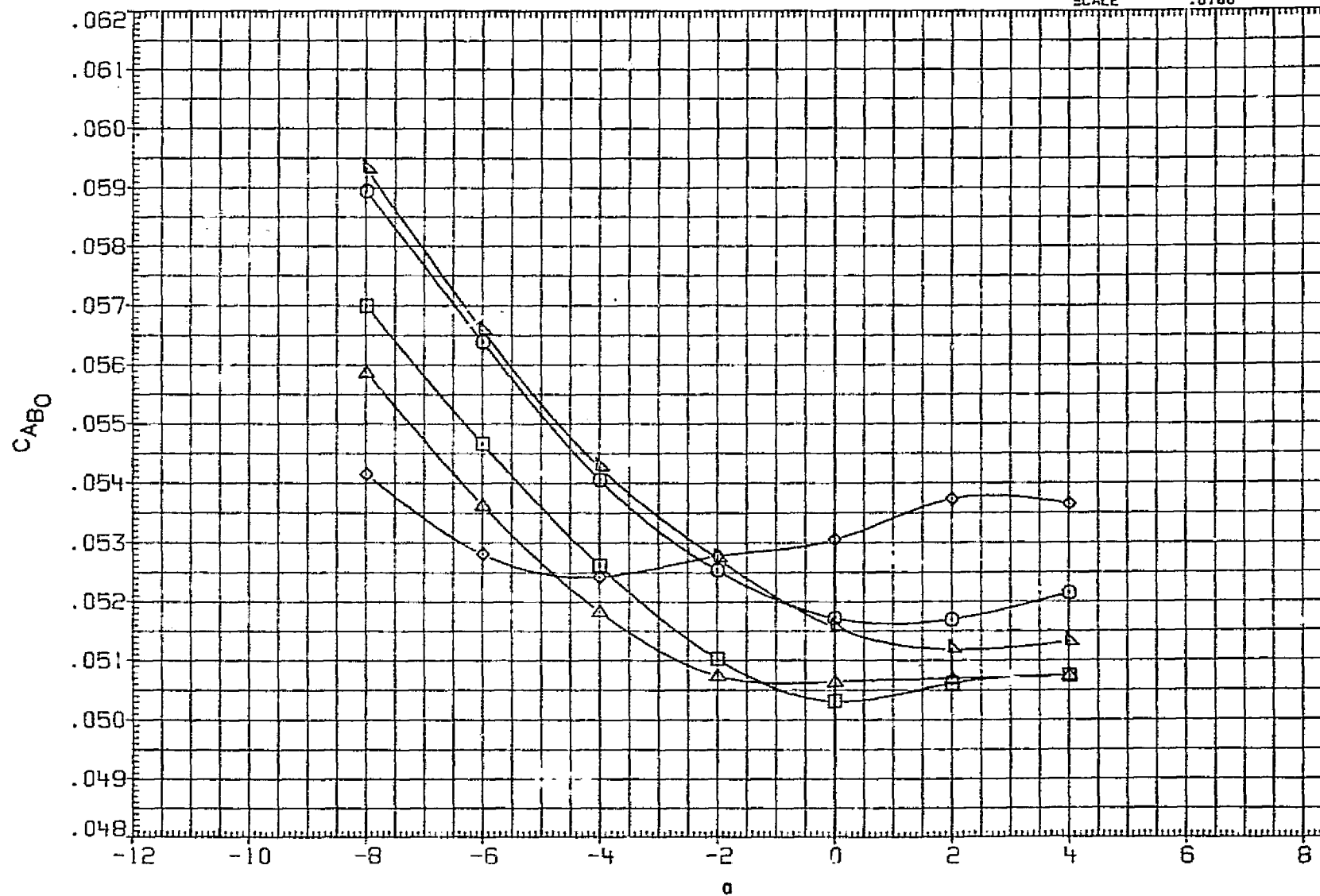


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000 50.FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000 INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000 INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000 IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

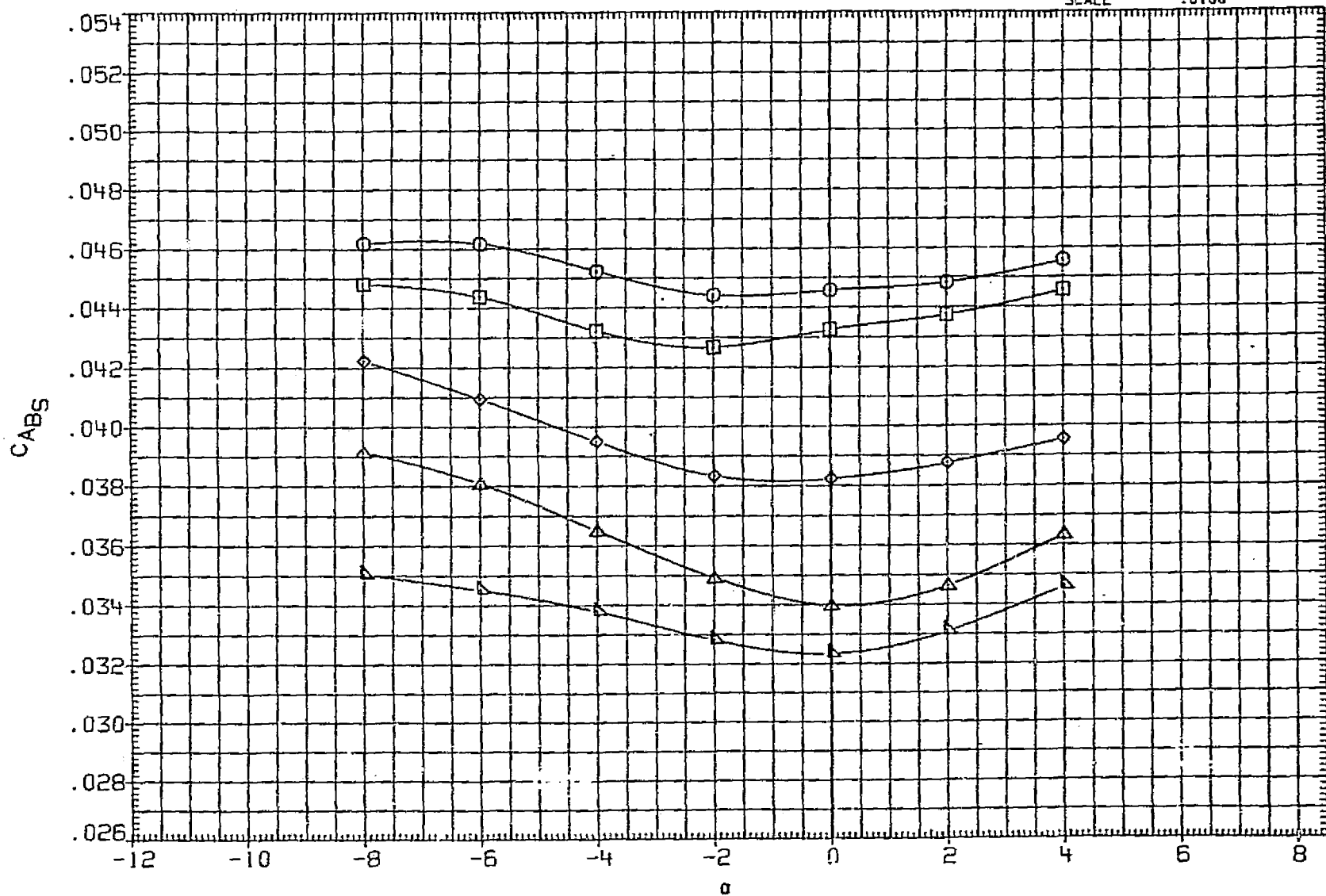


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	18.000	14.000	SREF	2690.0000	SQ.FT.
MJJB13	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	▽	LARC BFT TPT 749 (1A93) OTSAT130	7.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

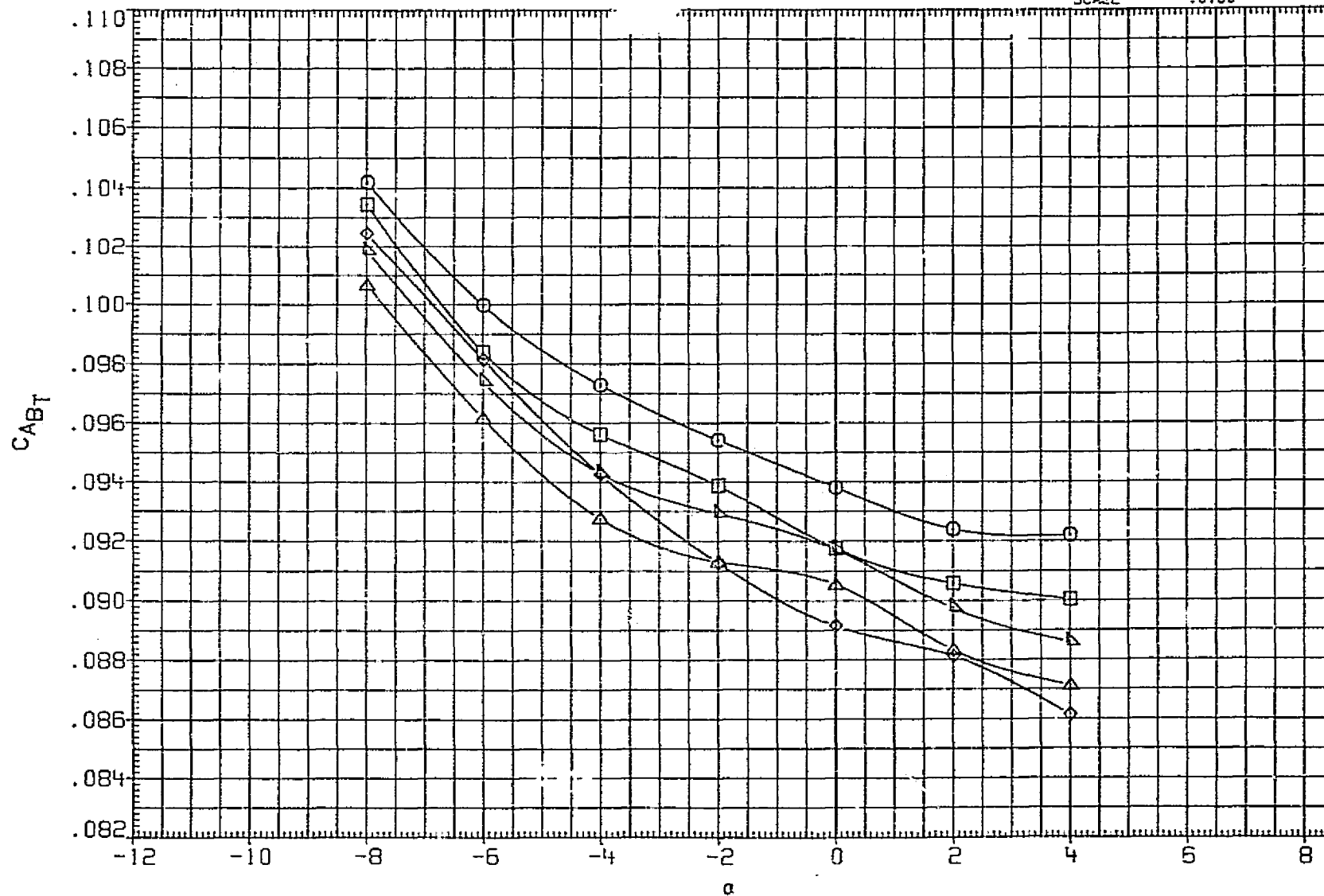


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50. FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

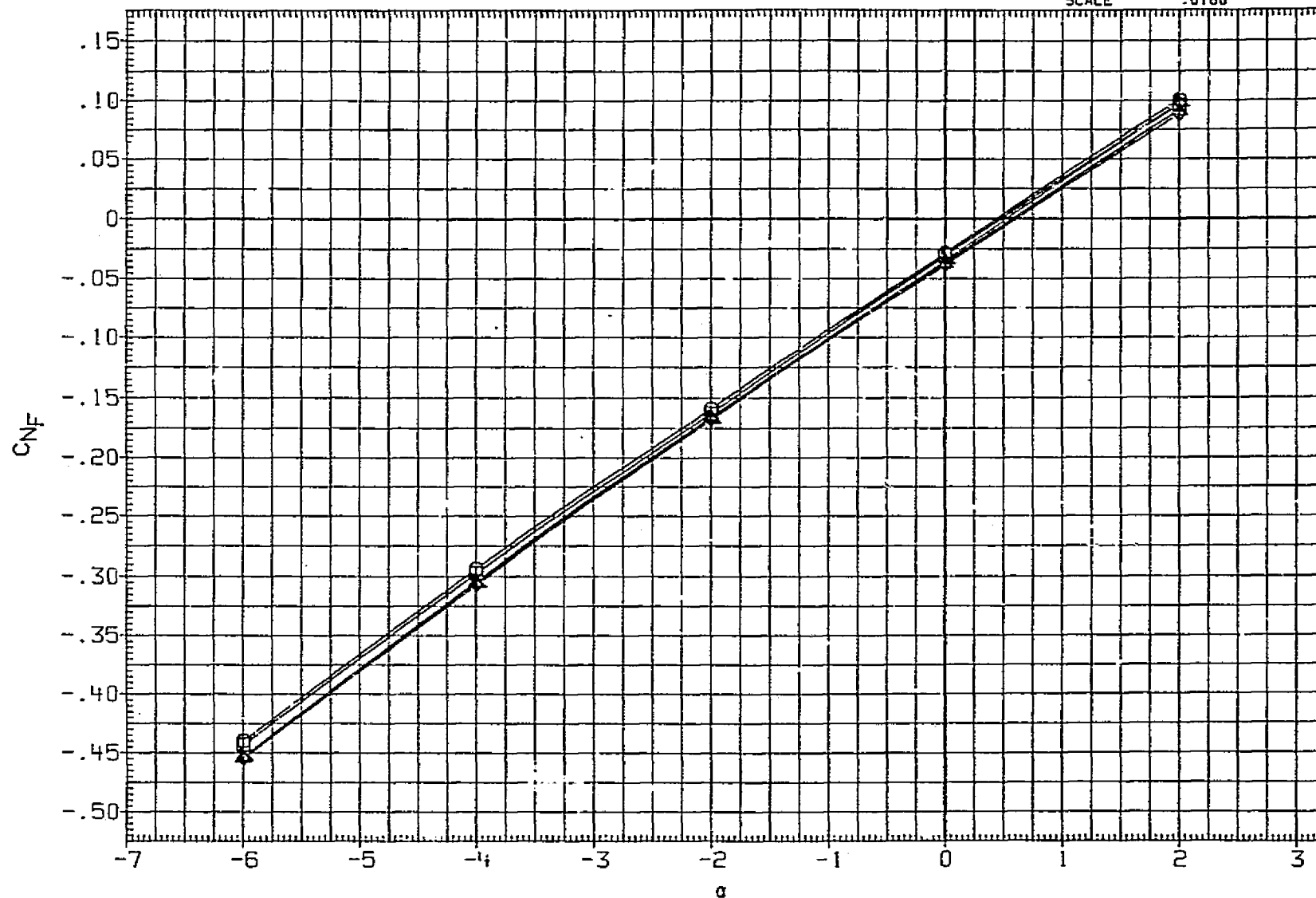


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50. FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

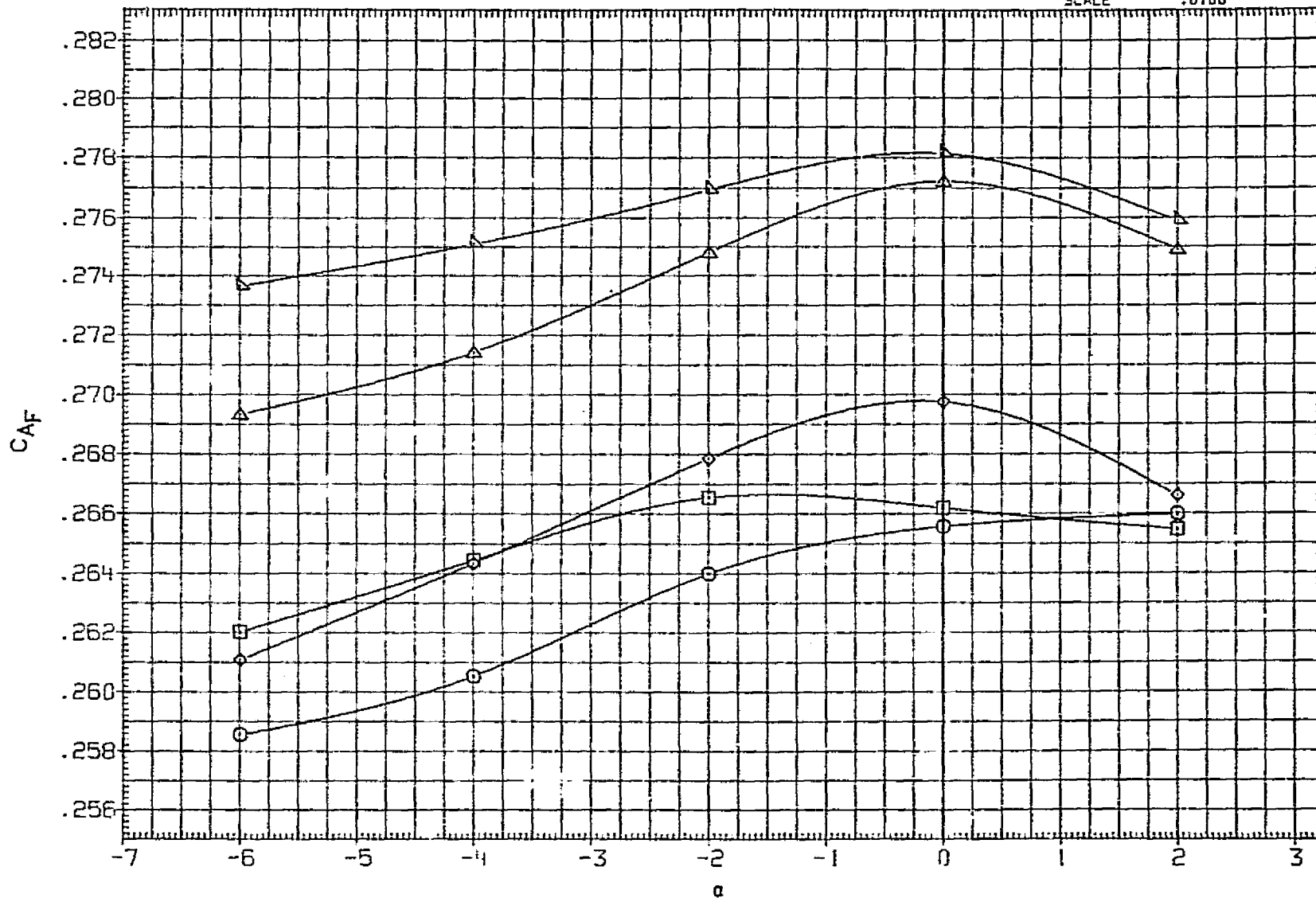


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2699.0000	SQ.FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

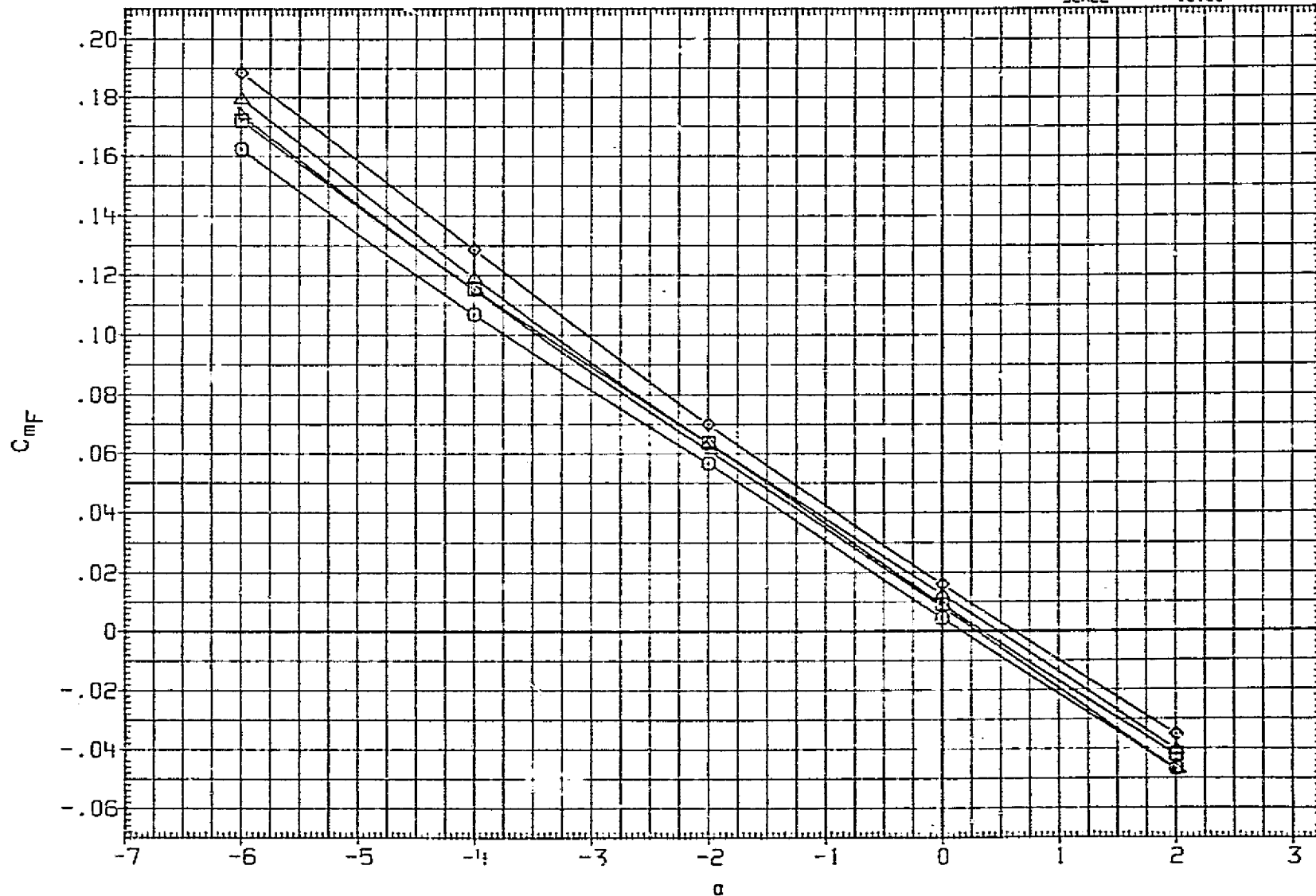


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB17	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2699.0000	50. FT.
MJJB18	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1299.3000	INCHES
MJJB19	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1299.3000	INCHES
MJJB20	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. Y1
								ZMRP	400.0000	IN. Z1
								SCALE	.0100	

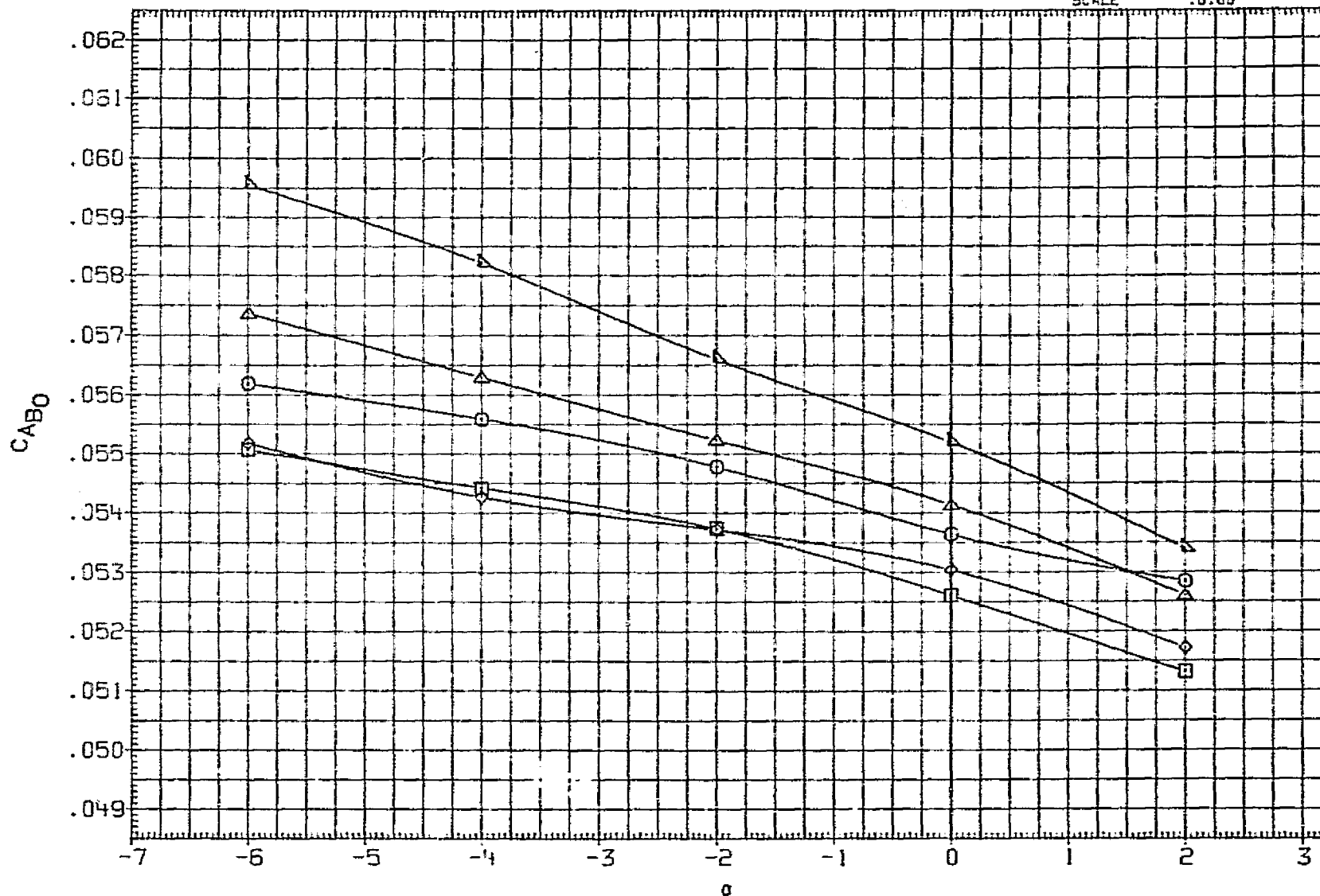


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF 2690.0000 SQ.FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF 1290.3000 INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF 1290.3000 INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP 976.0000 IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP .0600 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

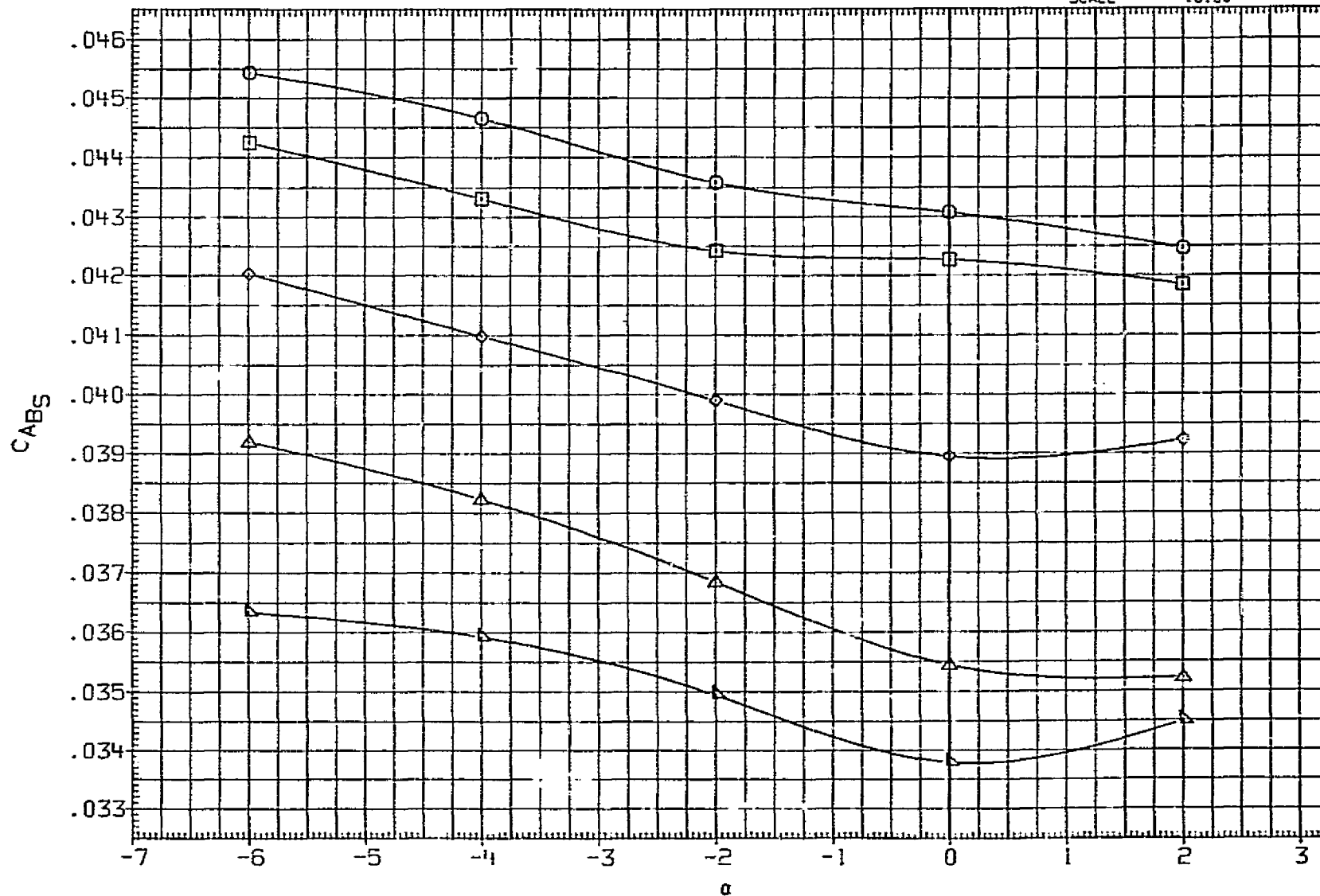


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB17	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2689.0000	SQ. FT.
MJJB18	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1230.3000	INCHES
MJJB19	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1230.3000	INCHES
MJJB20	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

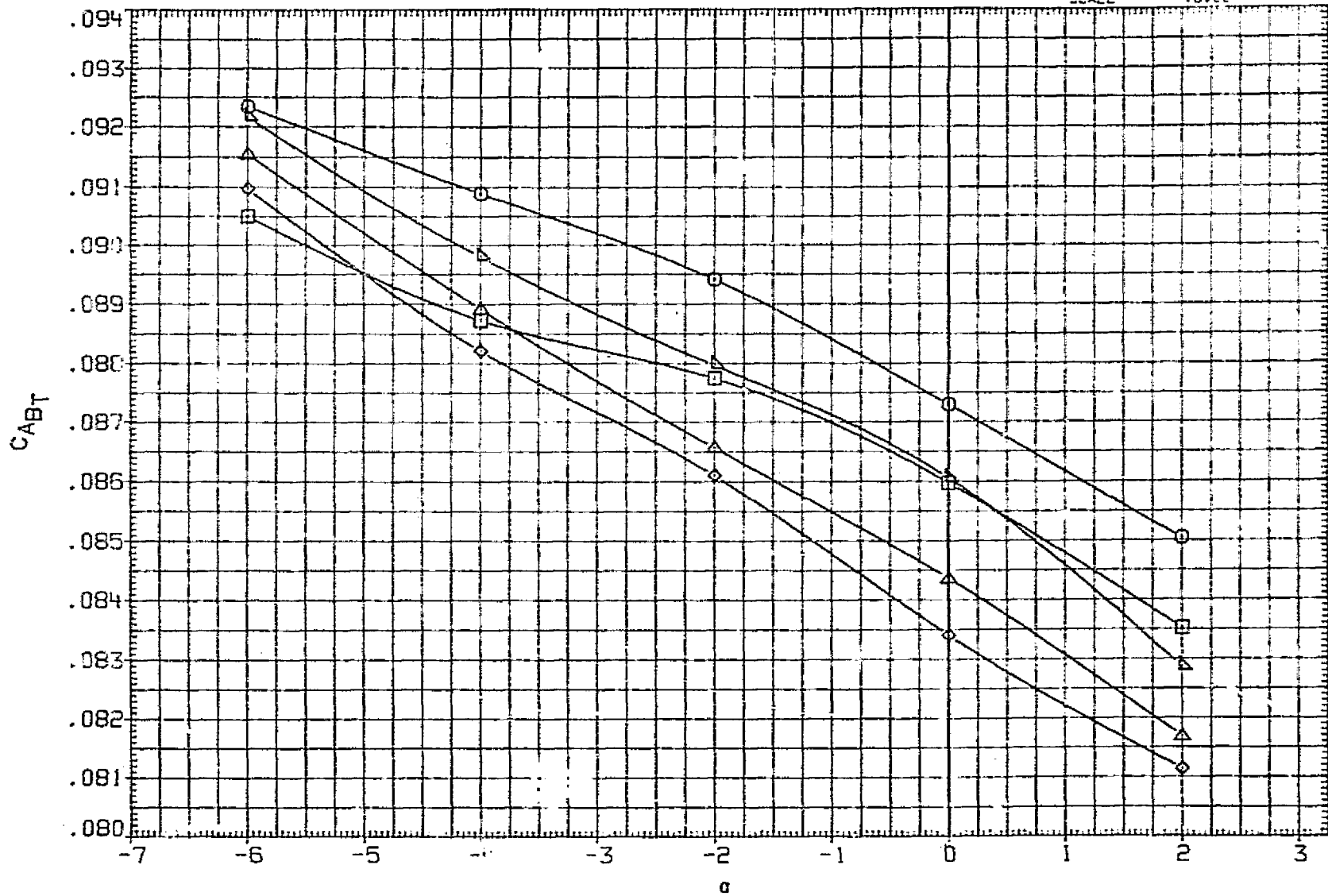


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-Li	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ817	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50.FT.
MJJ818	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJ819	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJ820	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJ821	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

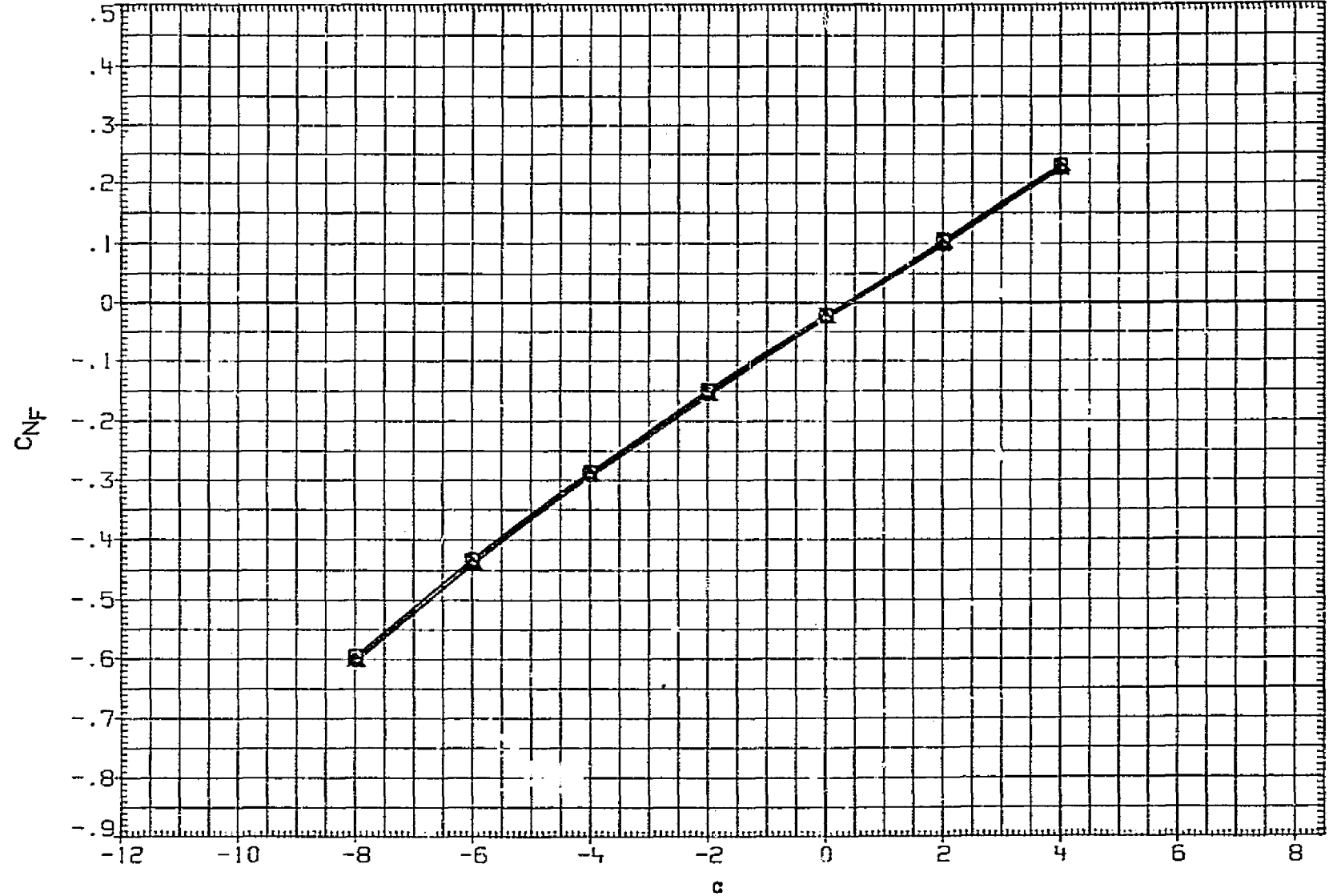


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2699.0000	SQ.FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

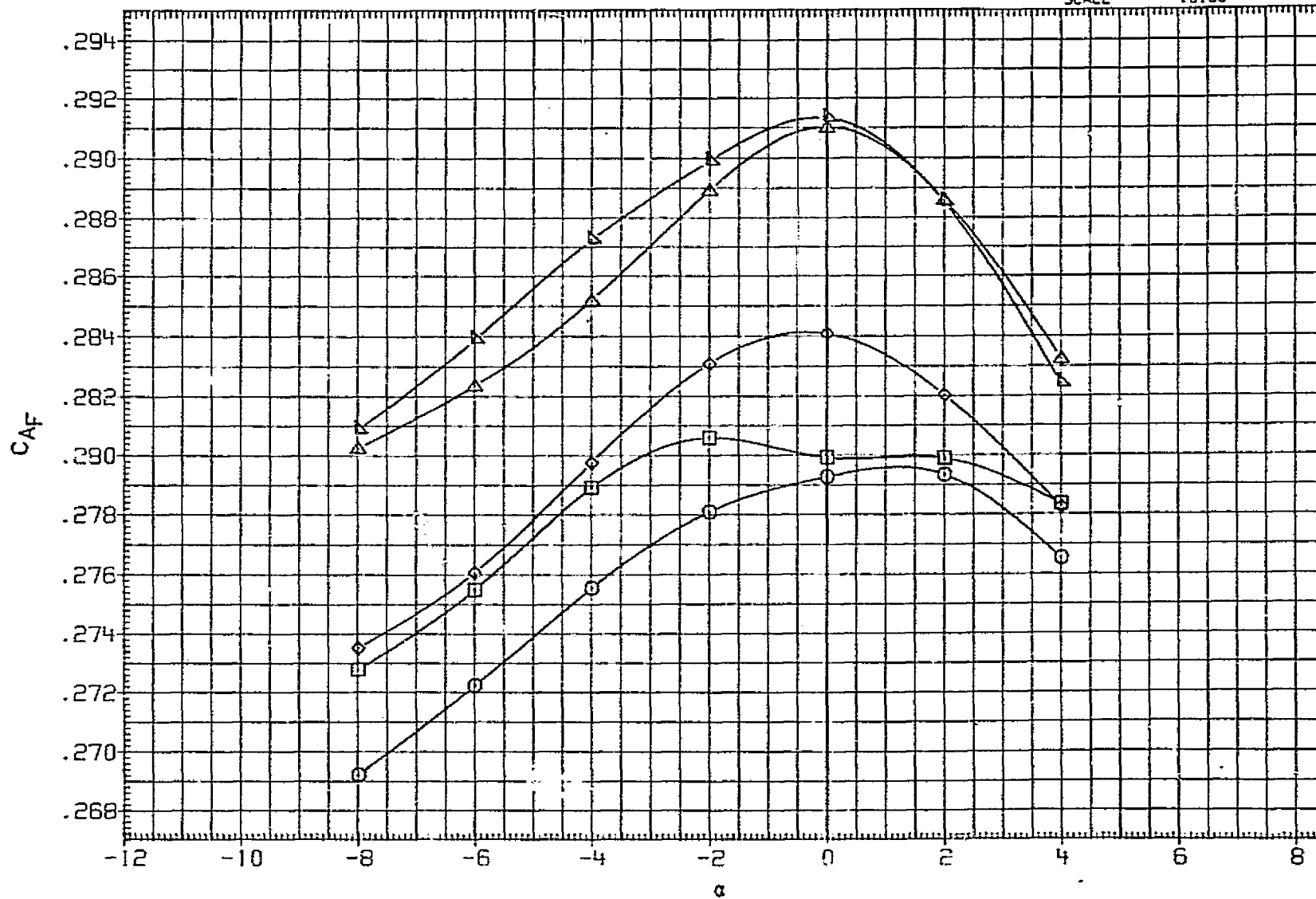


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

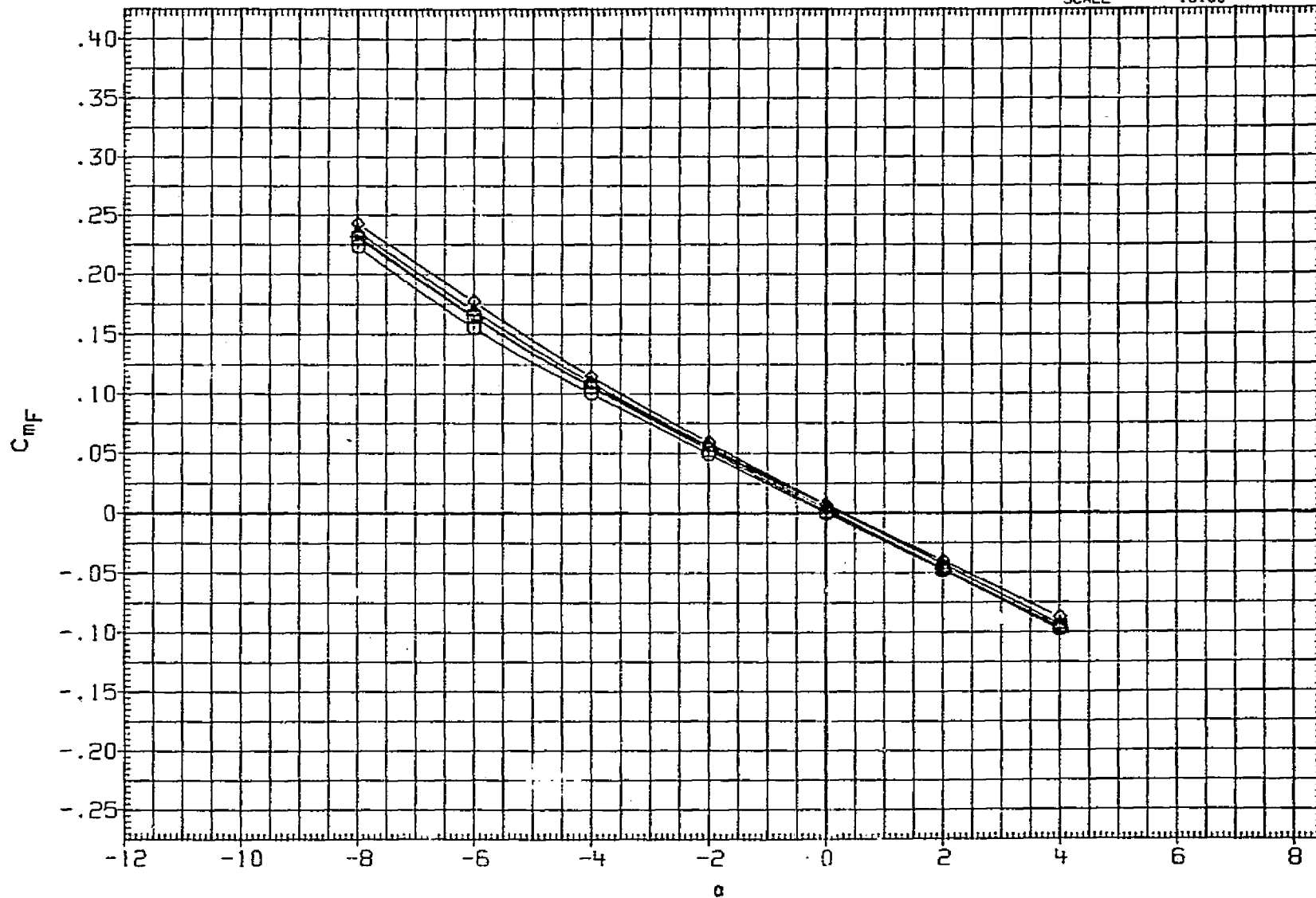


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB17	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2650.0000	50.FT.
MJJB18	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1230.3000	INCHES
MJJB19	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XHRP	976.0000	IN. XT
MJJB21	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YHRP	.0000	IN. YT
							ZHRP	400.0000	IN. ZT
							SCALE	.0100	

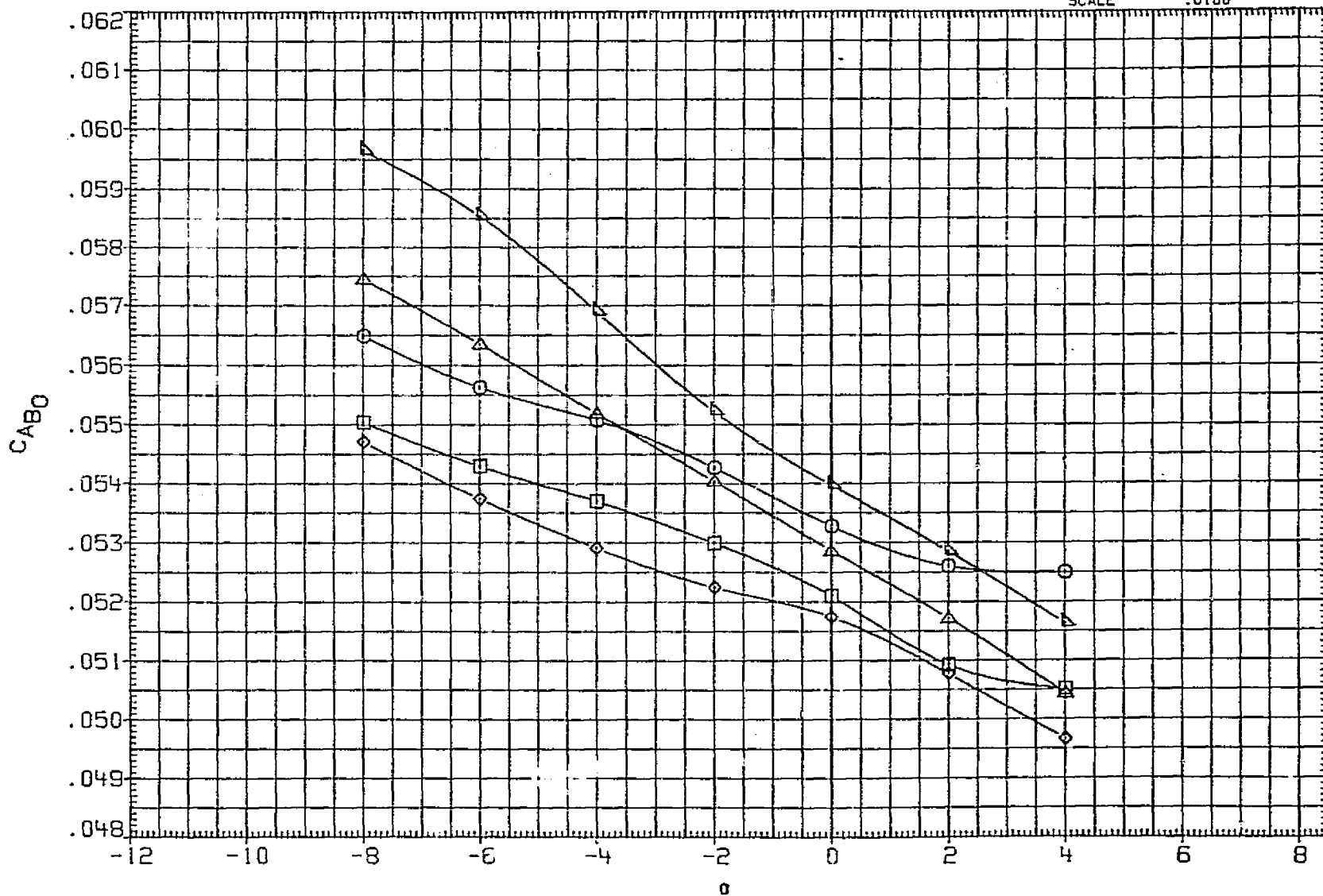


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50. FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

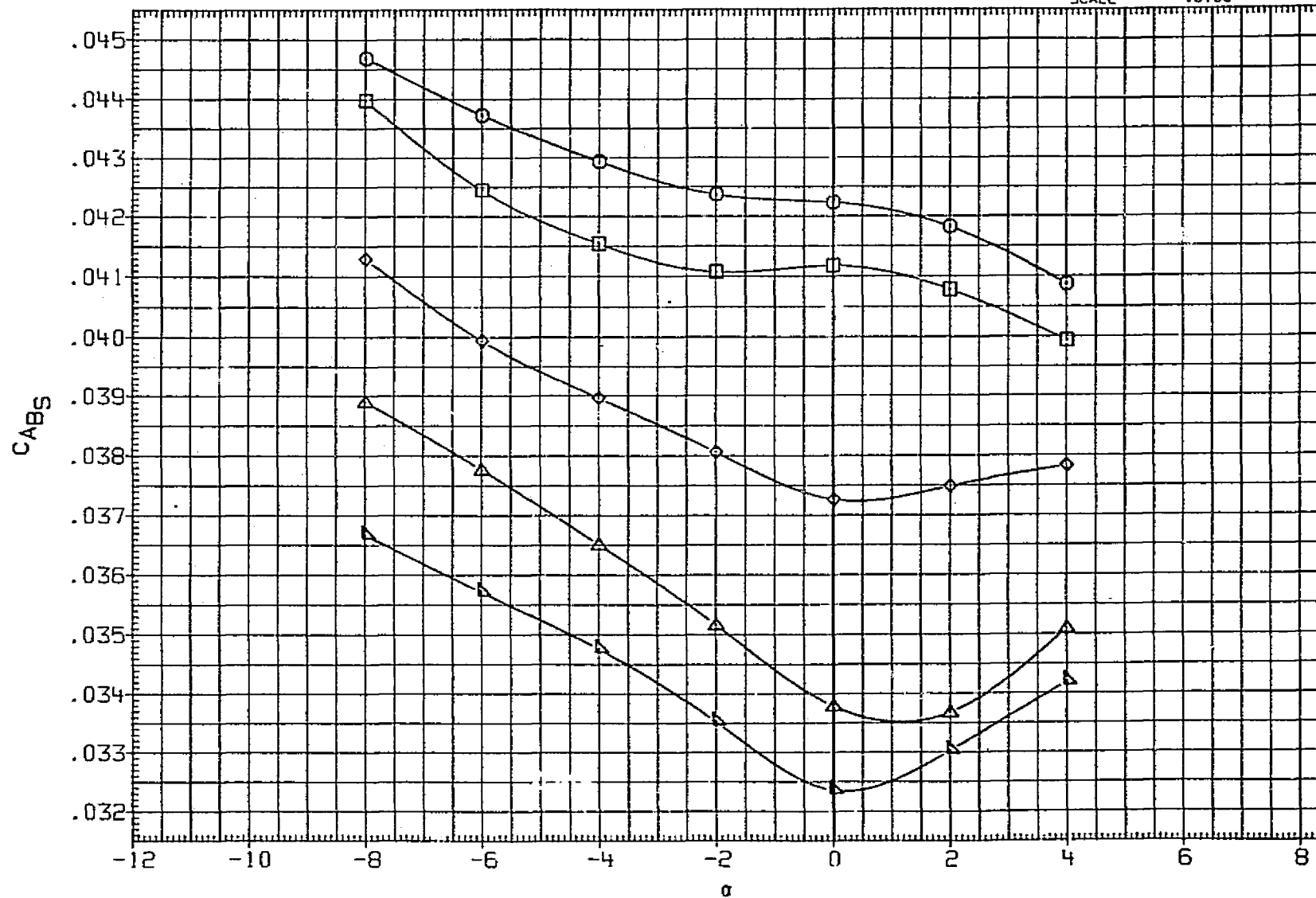


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	97E.0000	IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

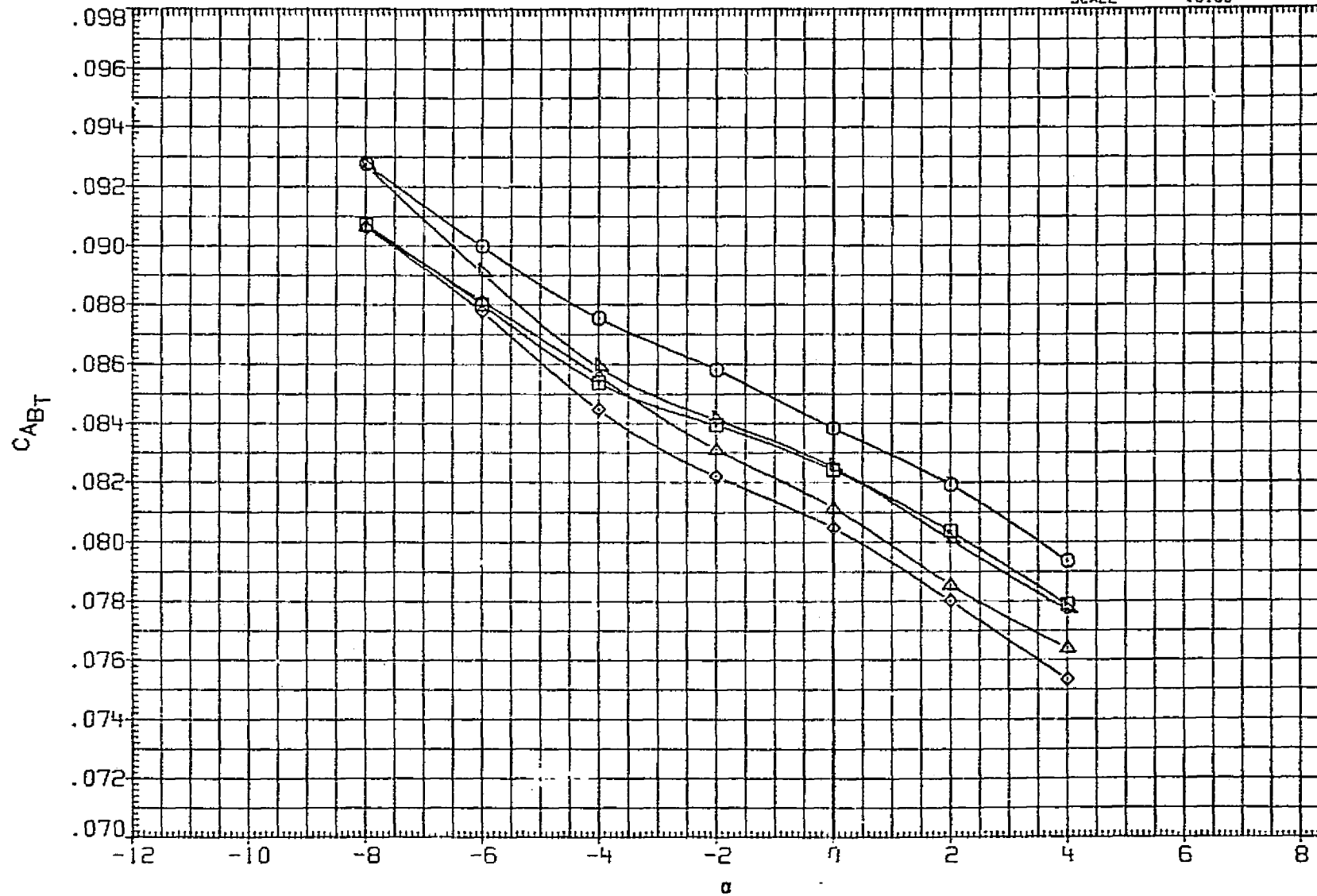


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	* REFERENCE INFORMATION		
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

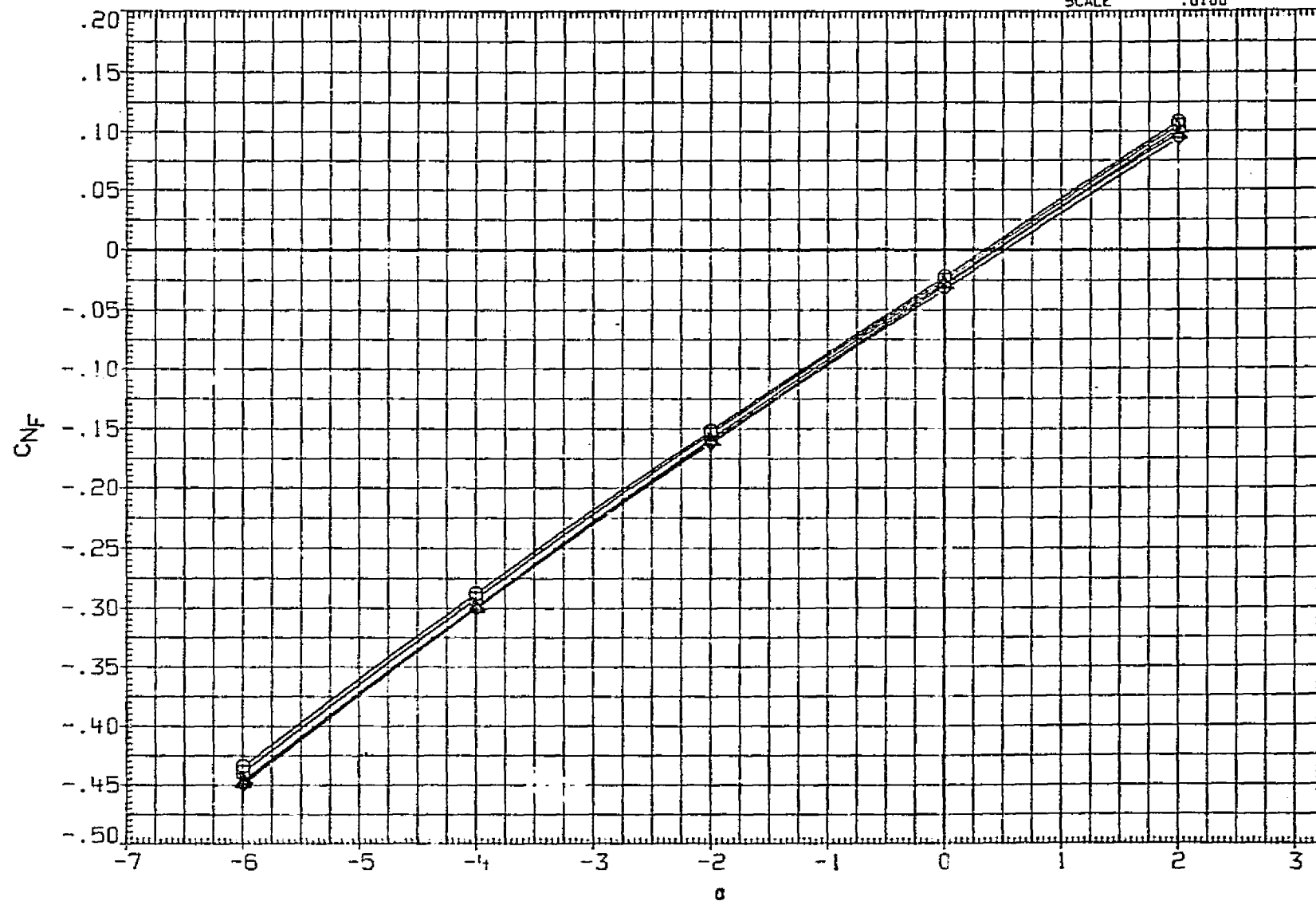


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

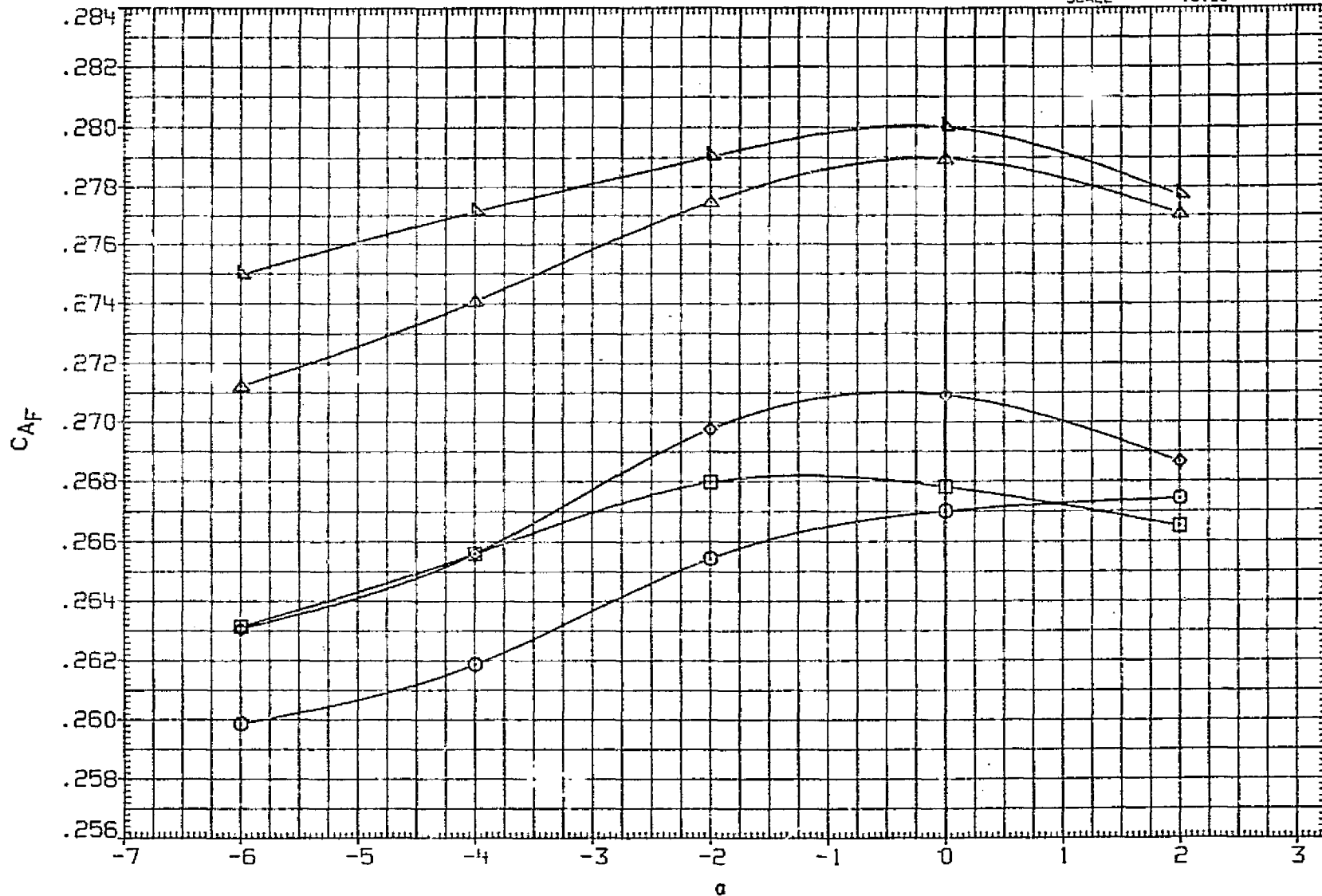


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000 SO. FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000 INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000 INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XHRP	976.0000 IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YHRP	.0000 IN. YT
								ZHPP	400.0000 IN. ZT
								SCALE	.0100

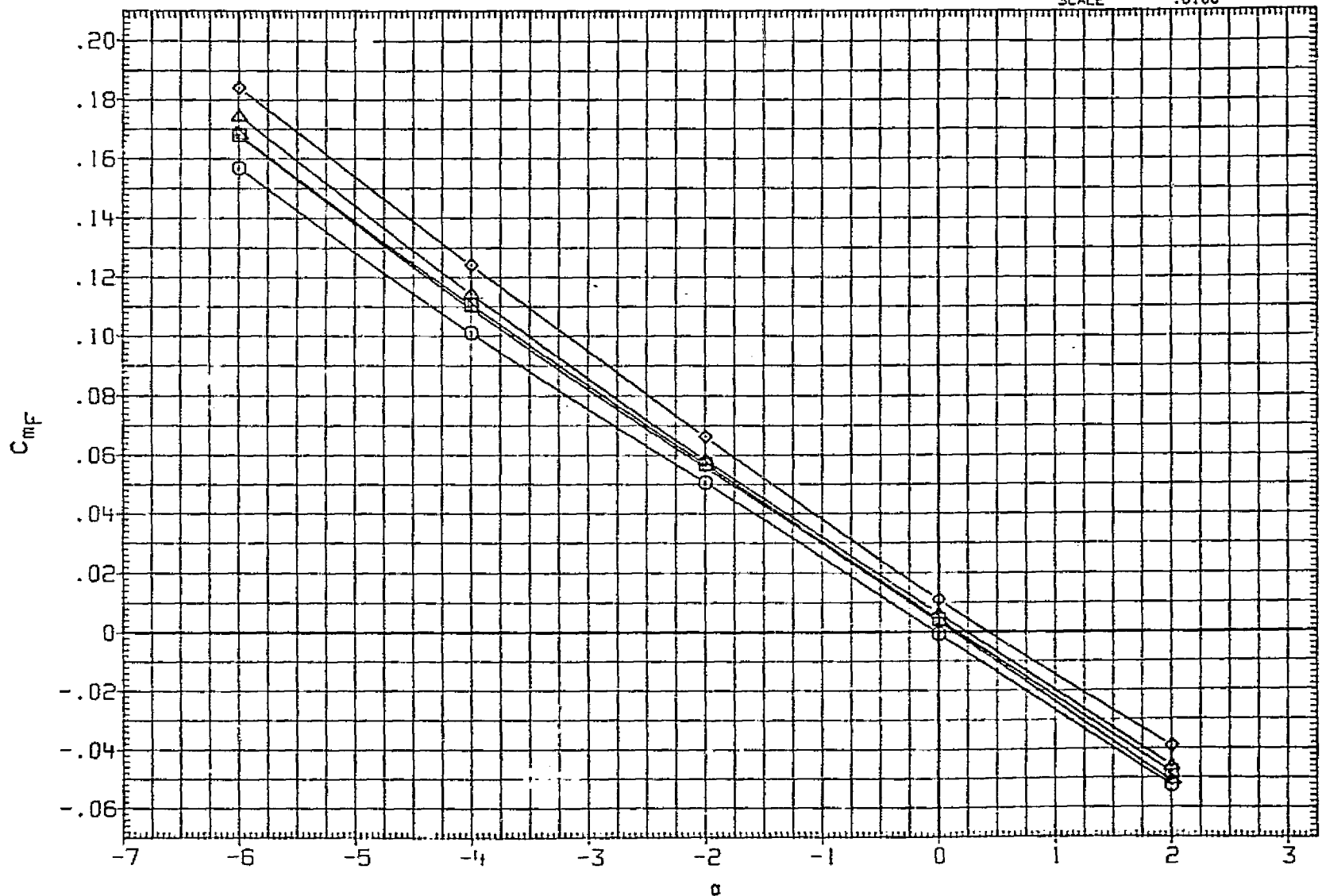


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000 SQ.FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000 INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000 INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000 IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

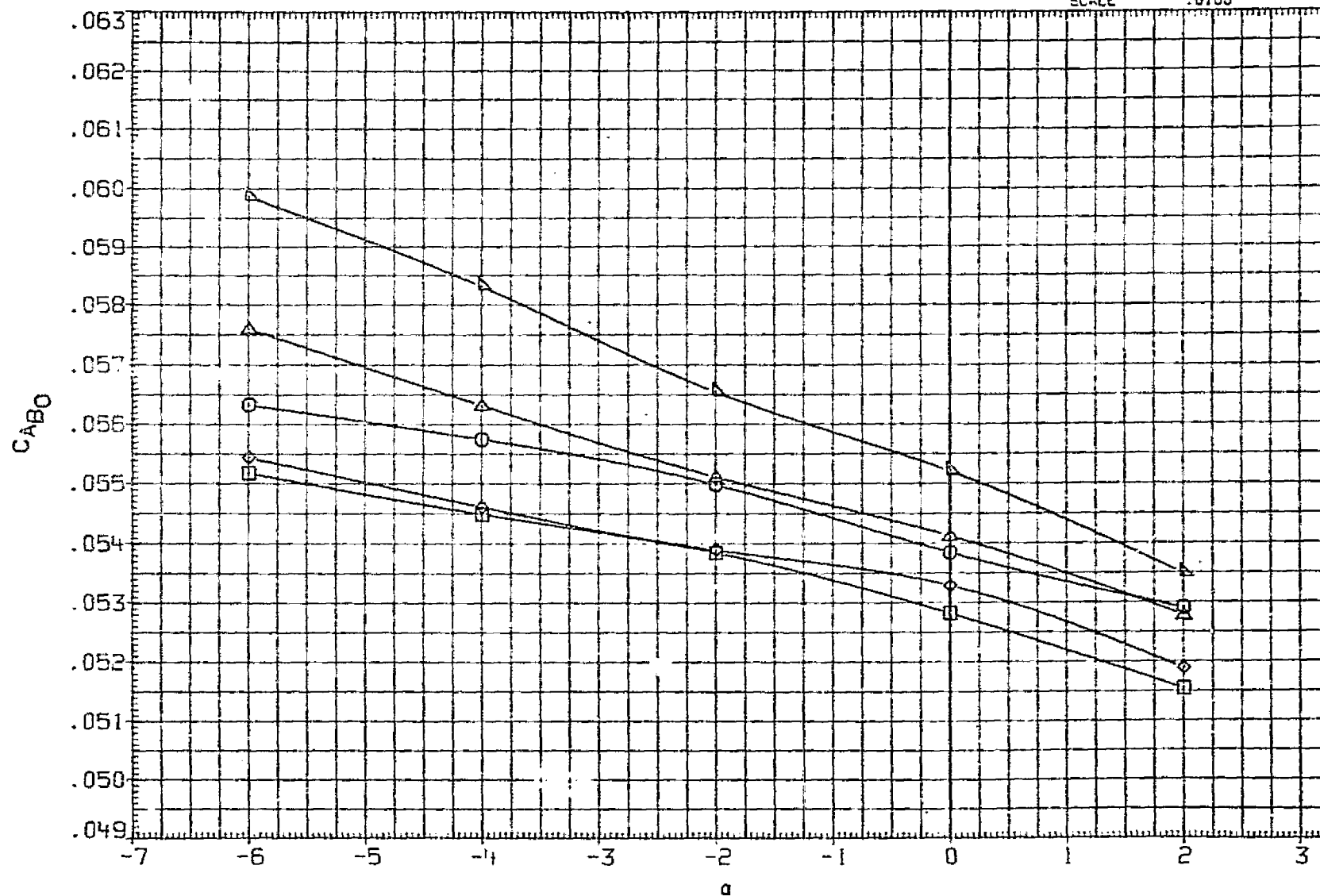


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT	
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

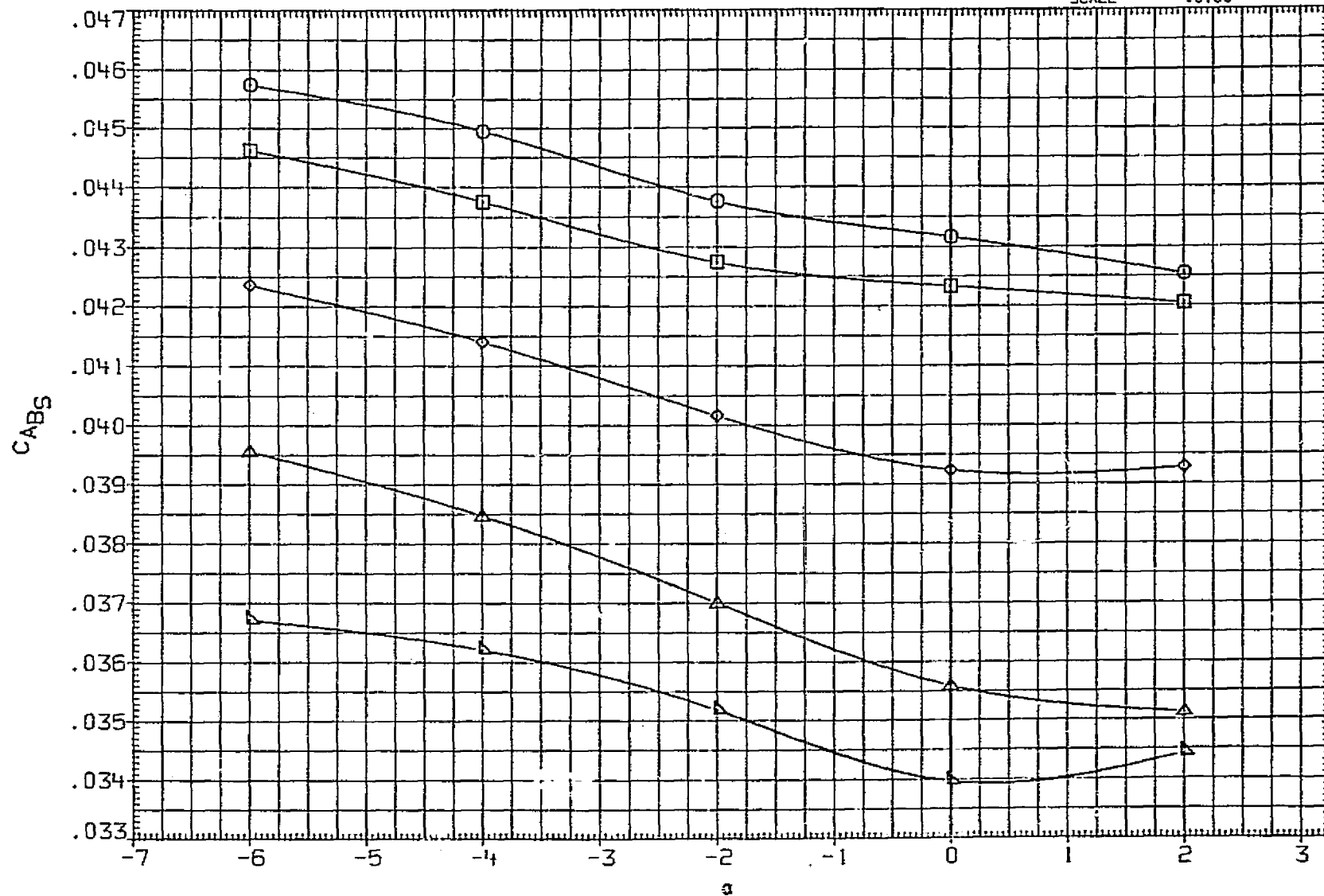


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. VT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

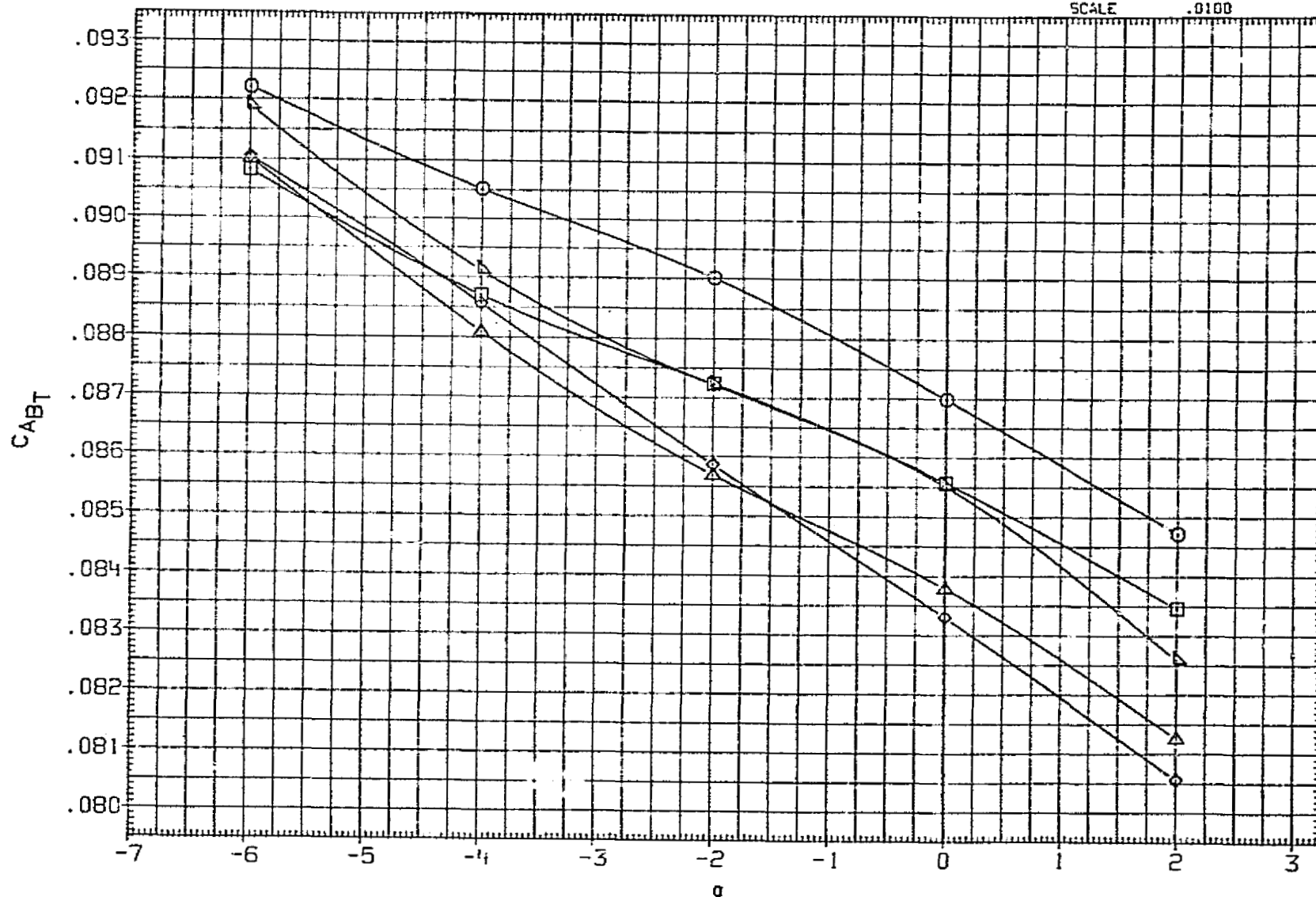


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB22	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF 2690.0000 SQ.FT.
MJJB23	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF 1290.3000 INCHES
MJJB24	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF 1290.3000 INCHES
MJJB25	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP 976.0000 IN. XT
MJJB26	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP .0000 IN. YT ZMRP 400.0000 IN. ZT SCALE .0100

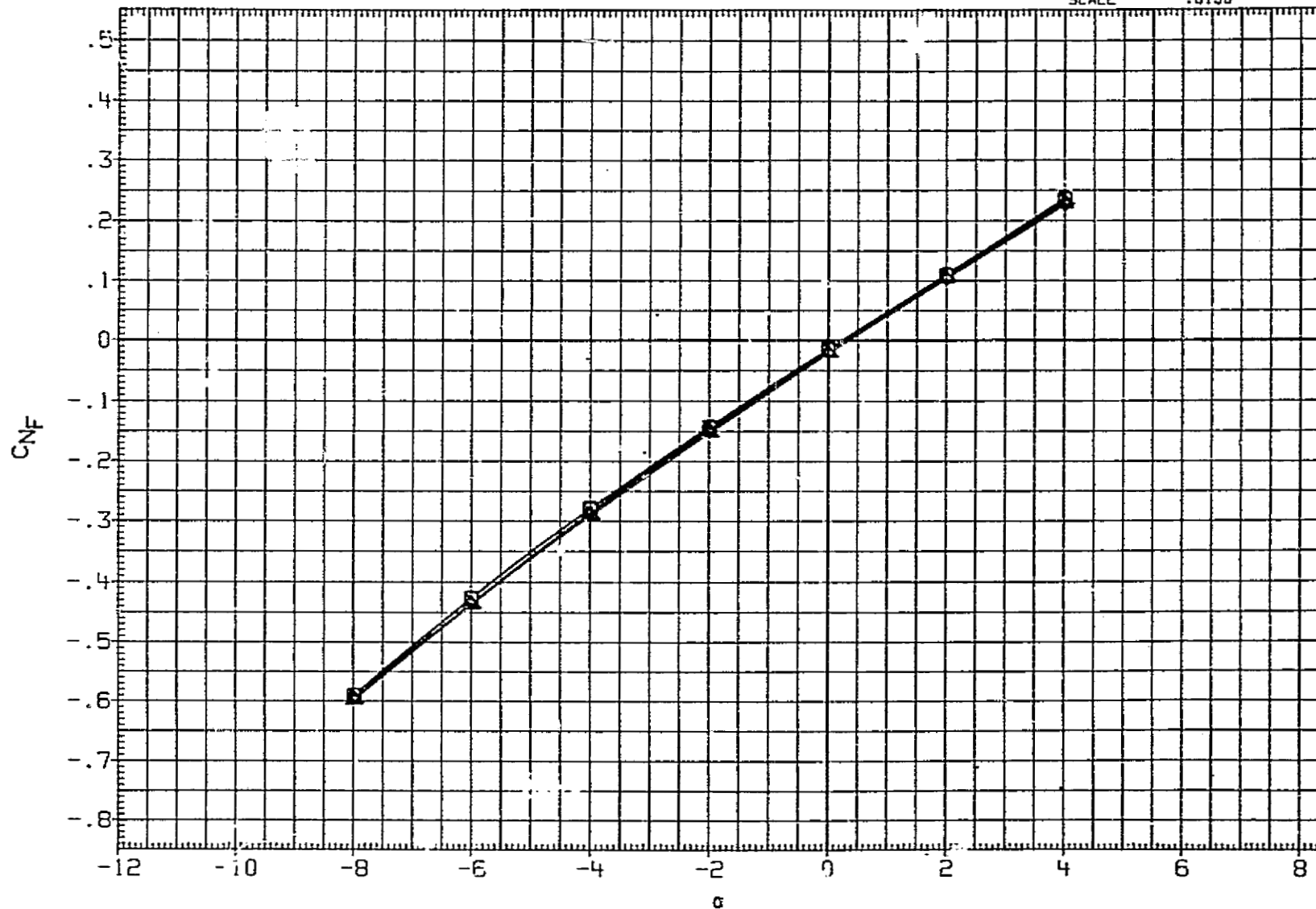


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000 50.FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000 INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000 INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000 IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

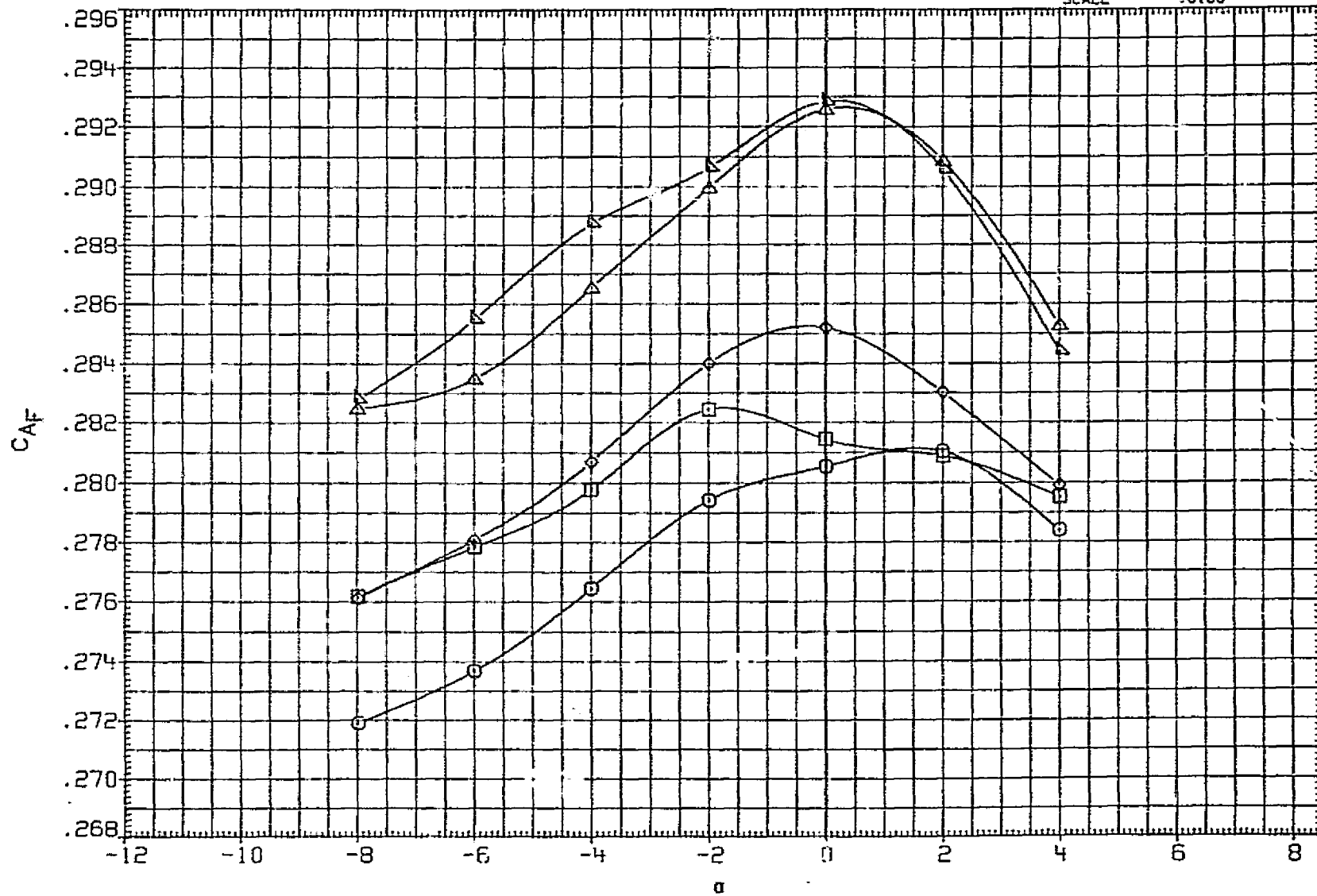


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF 2690.0000 SQ.FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.900	12.000	-5.000	12.000	-5.000	LREF 1290.3000 INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF 1290.3000 INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP 976.0000 IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

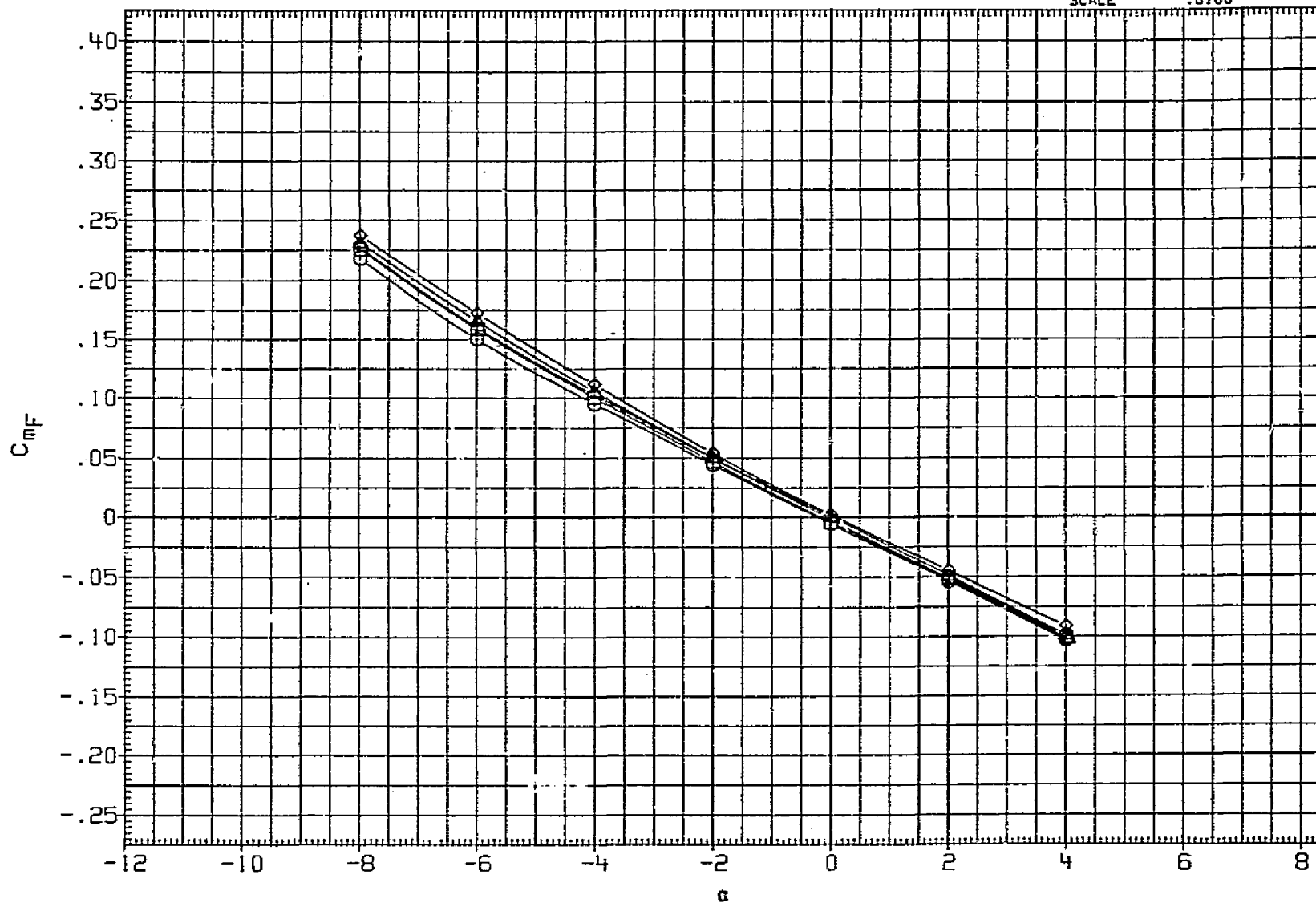


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMR	976.0000	IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMR	.0000	IN. YT
								ZMR	400.0000	IN. ZT
								SCALE	.0100	

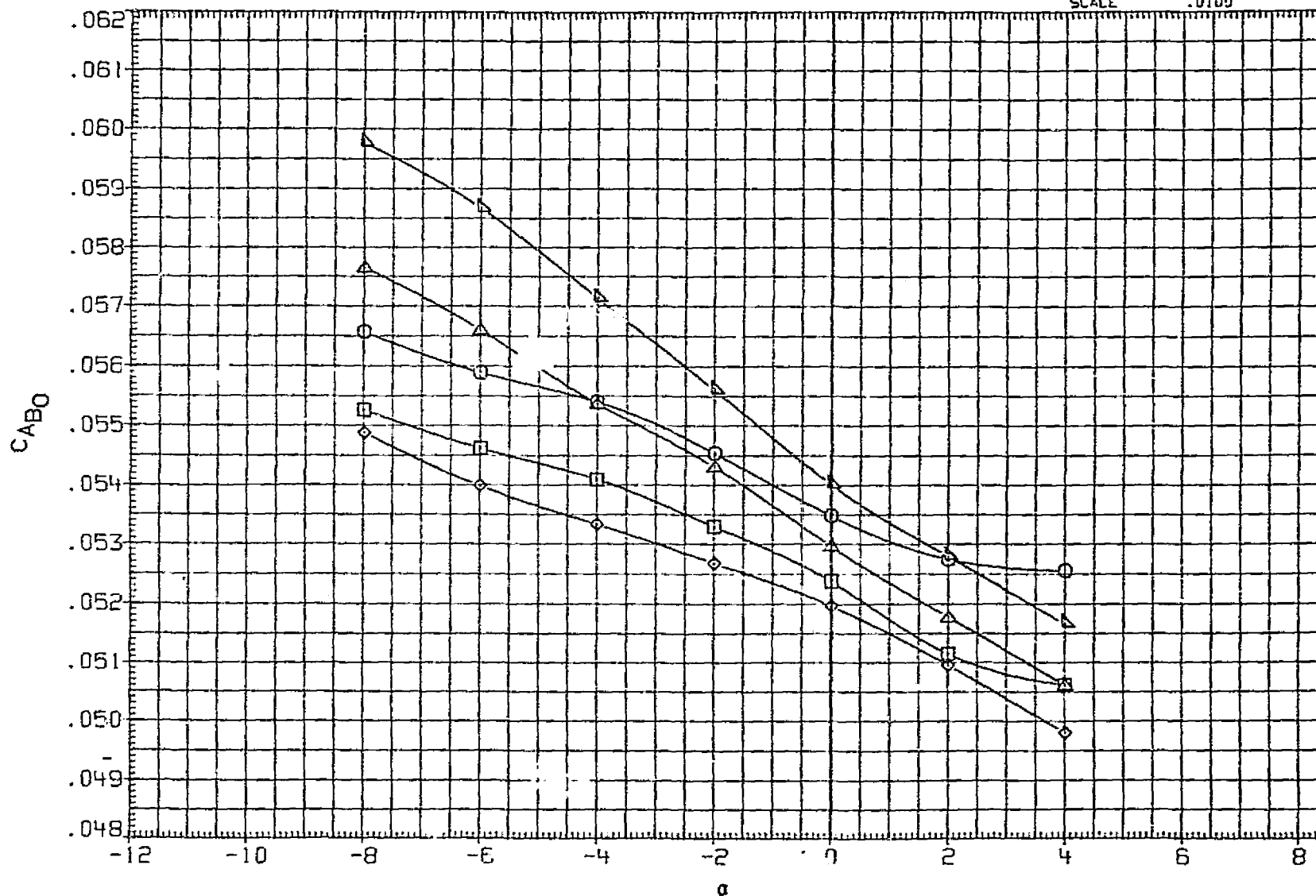


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-H1	ELV-R0	REFERENCE INFORMATION		
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	975.0000	IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

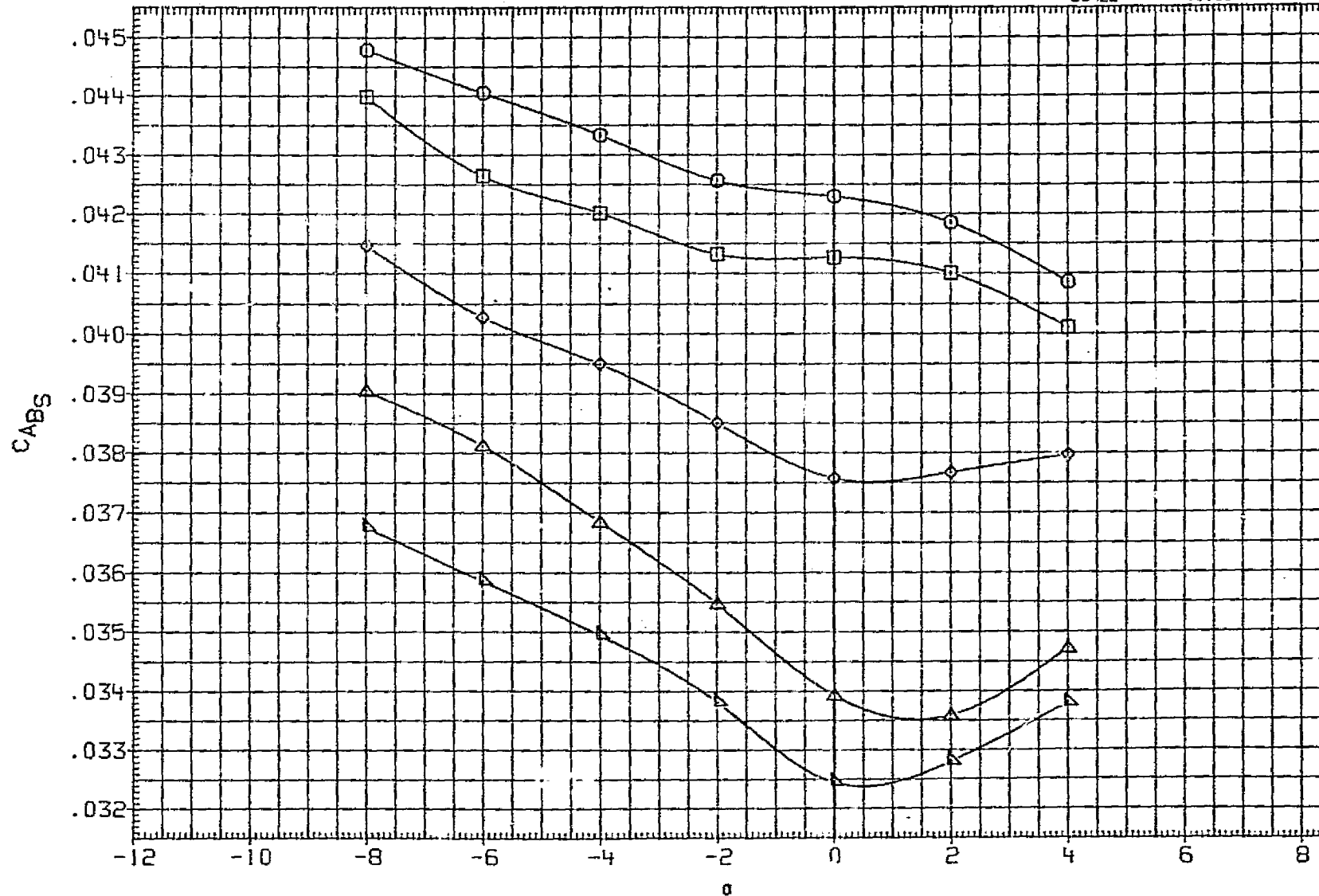


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000 SQ.FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000 INCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000 INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000 IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

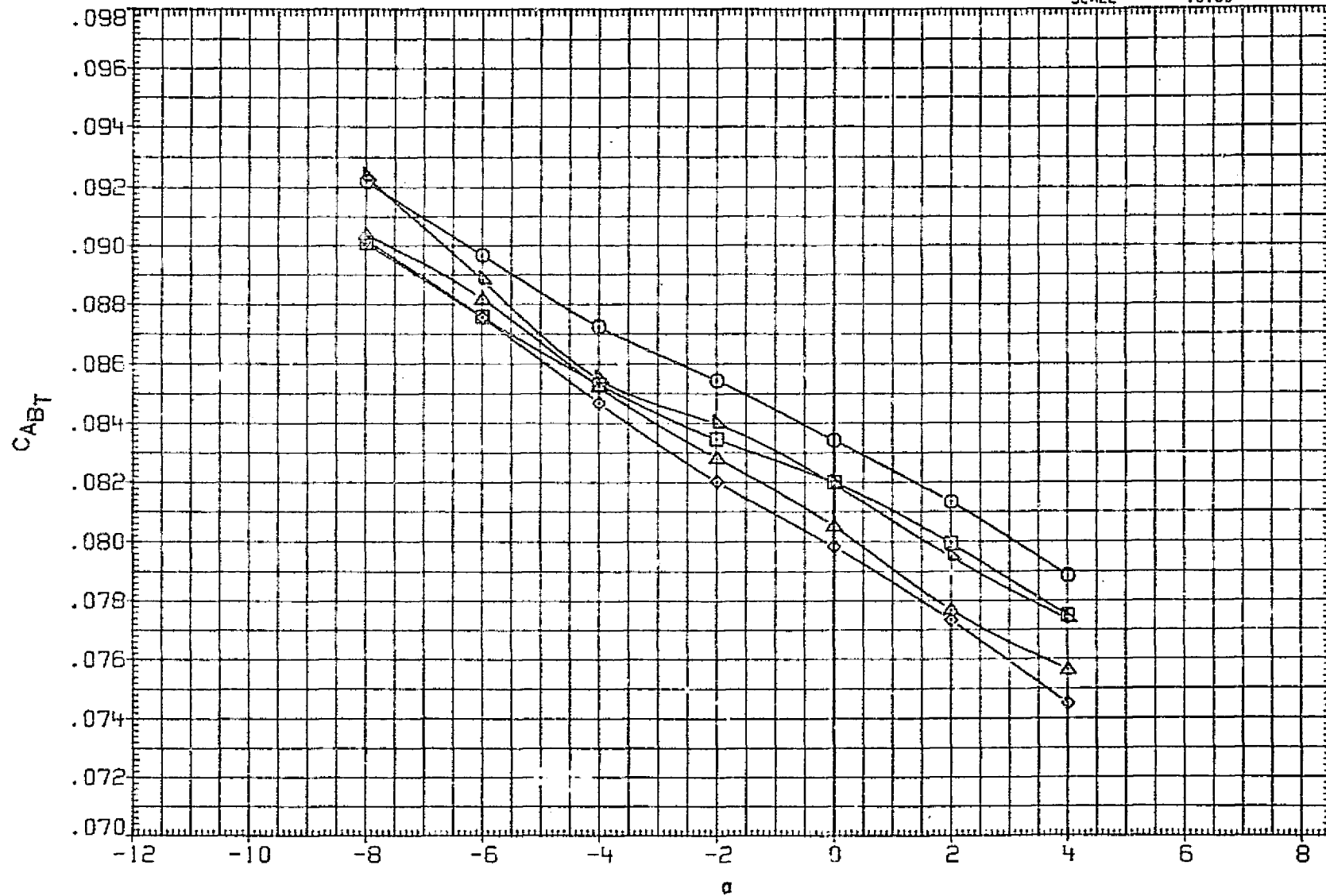


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SO.FT.
MJJB28	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

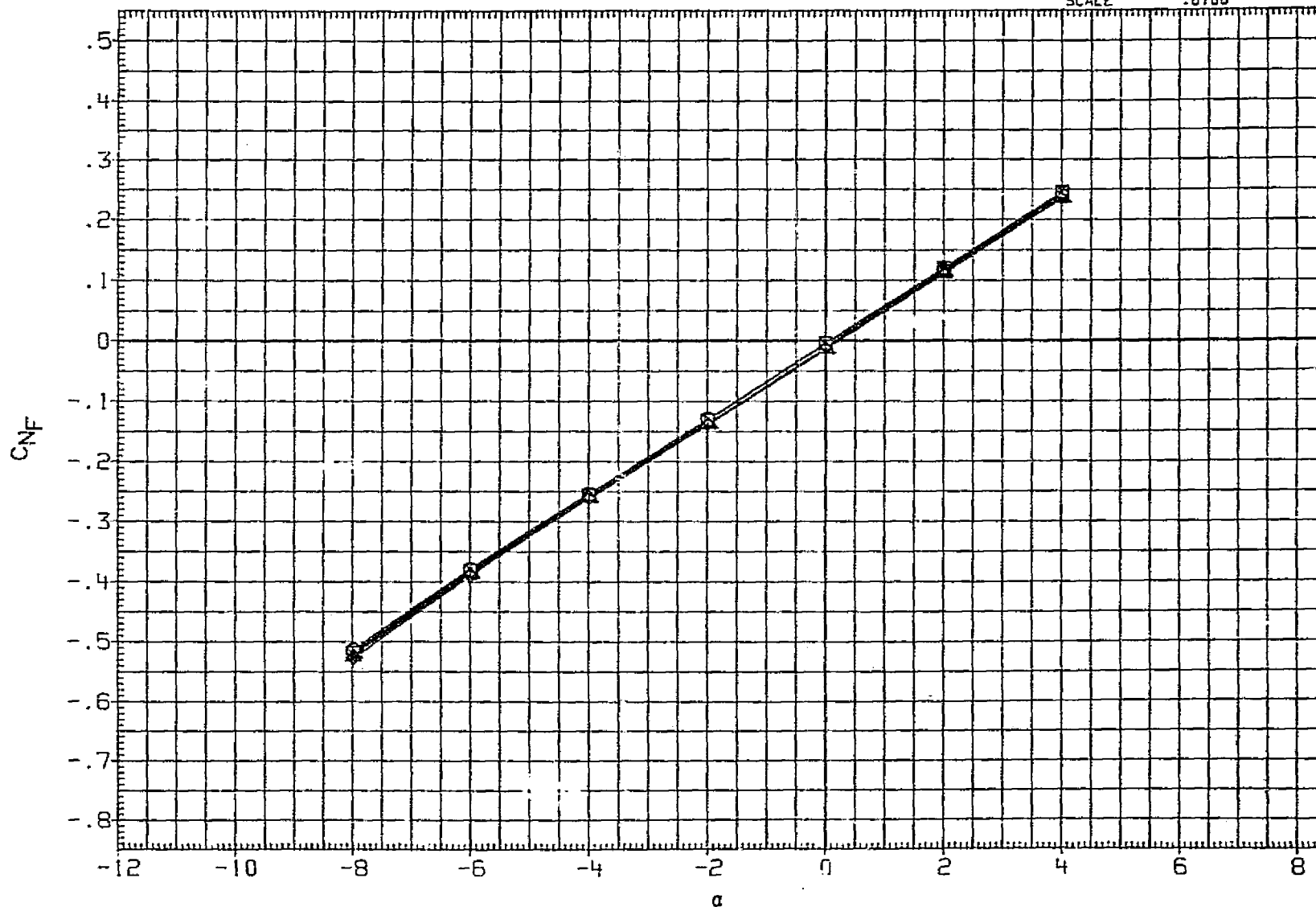


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	11. INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	975.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

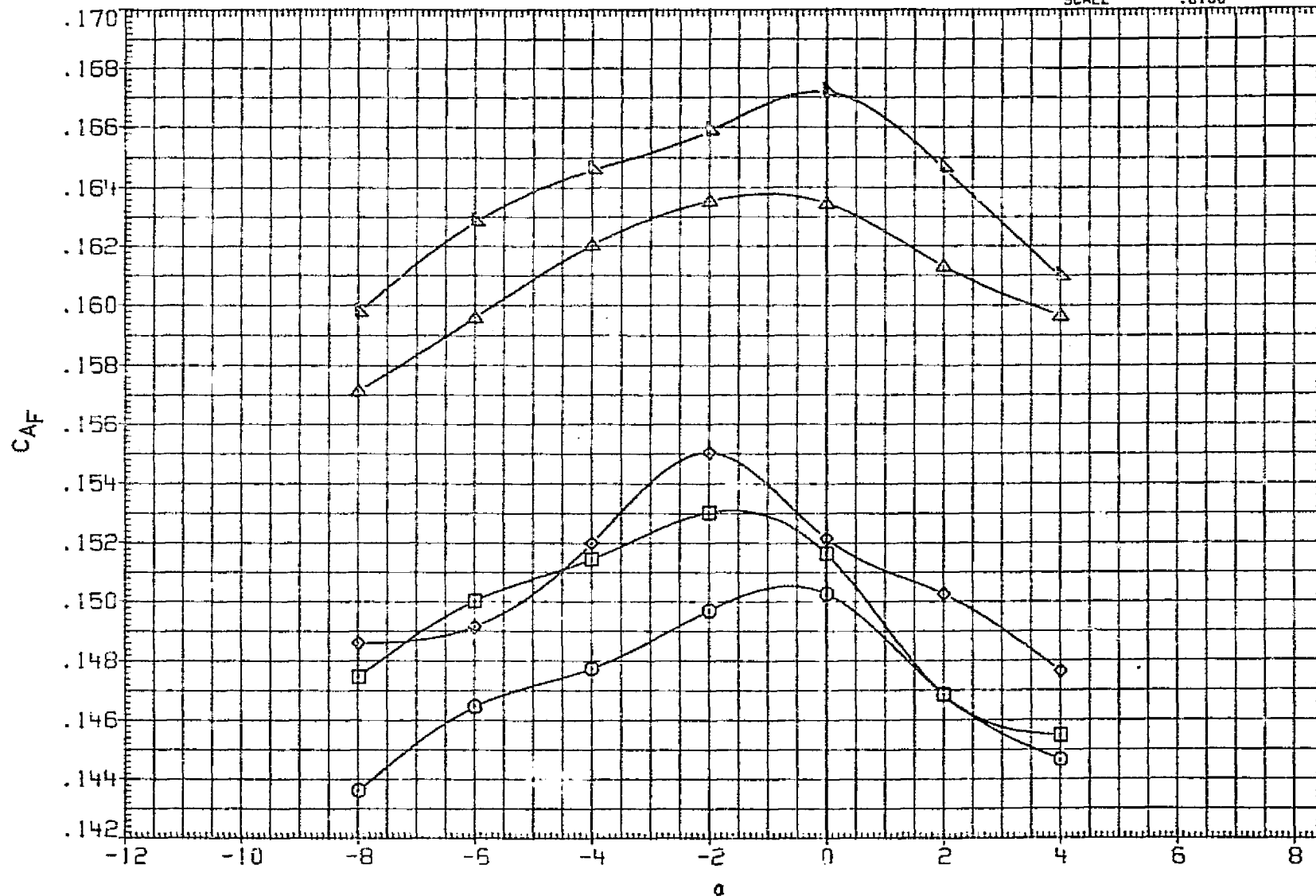


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XHRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YHRP	.0000	IN. YT
								ZHRP	400.0000	IN. ZT
								SCALE	.0100	

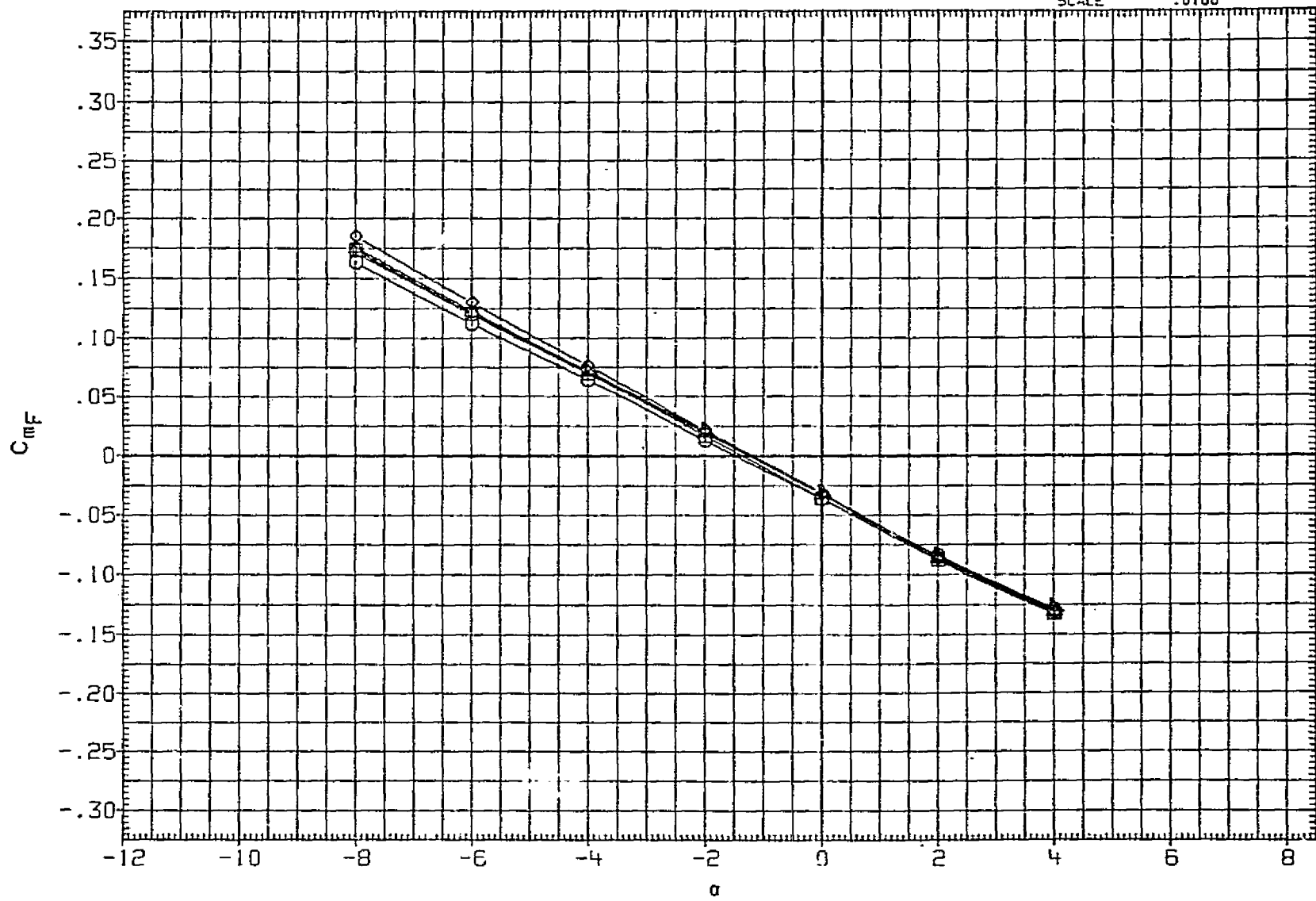


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJ827	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF 2690.0000 50.FT.
MJJ828	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF 1290.3000 INCHES
MJJ829	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF 1290.3000 INCHES
MJJ830	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP 976.0000 IN. XT
MJJ831	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

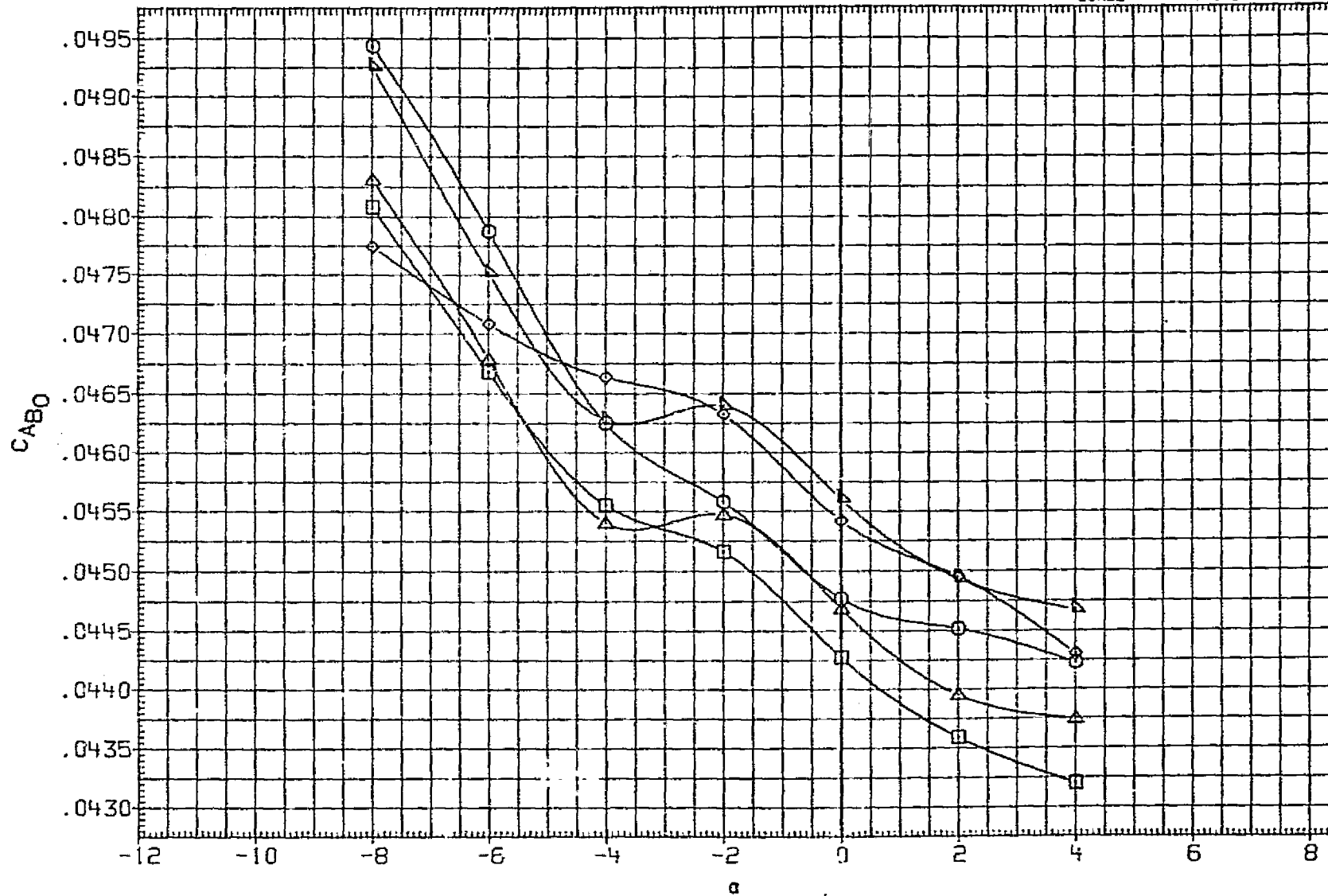


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZI
								SCALE	.0100	

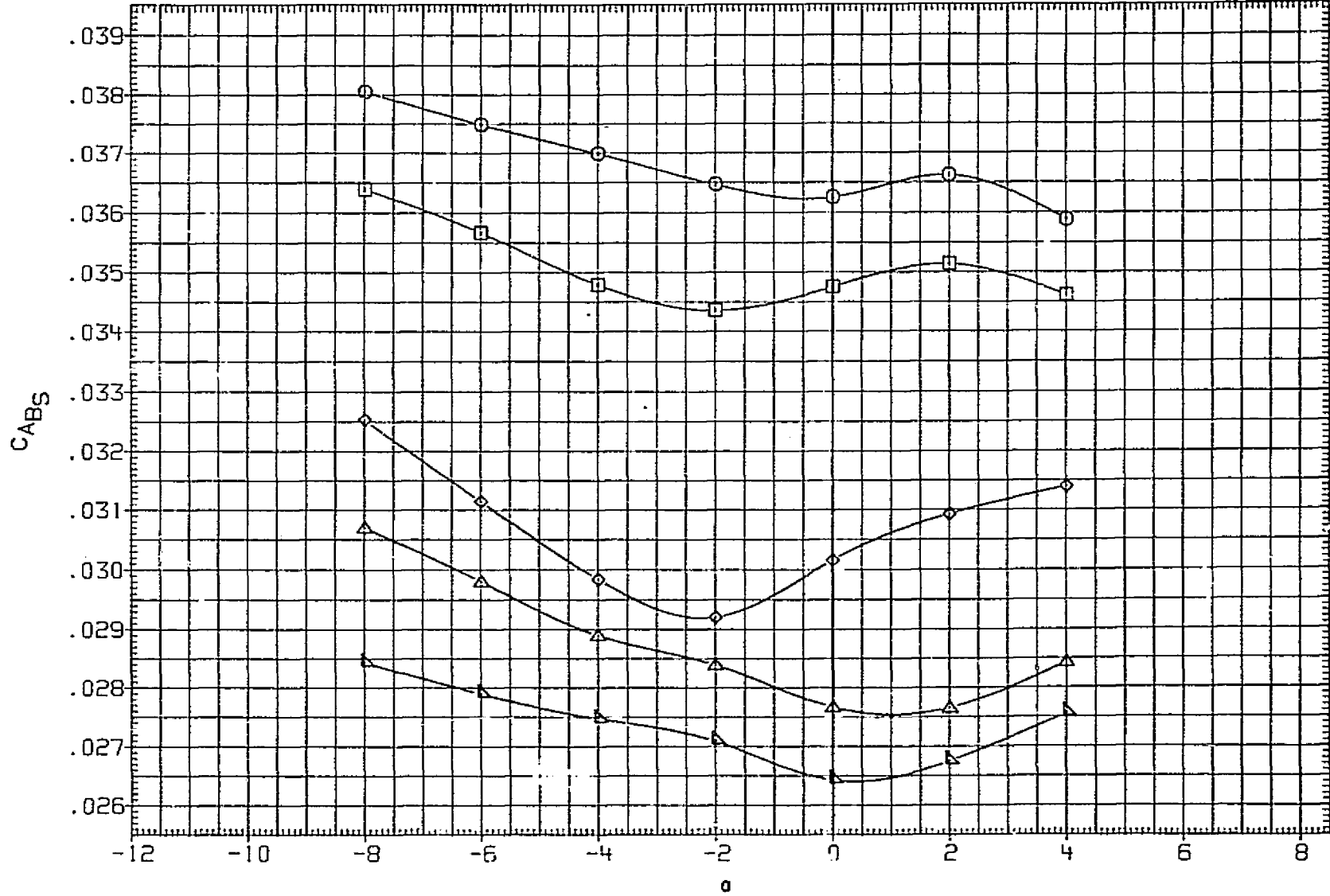


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ827	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50.FT.
MJJ828	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJ829	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJ830	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJ831	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

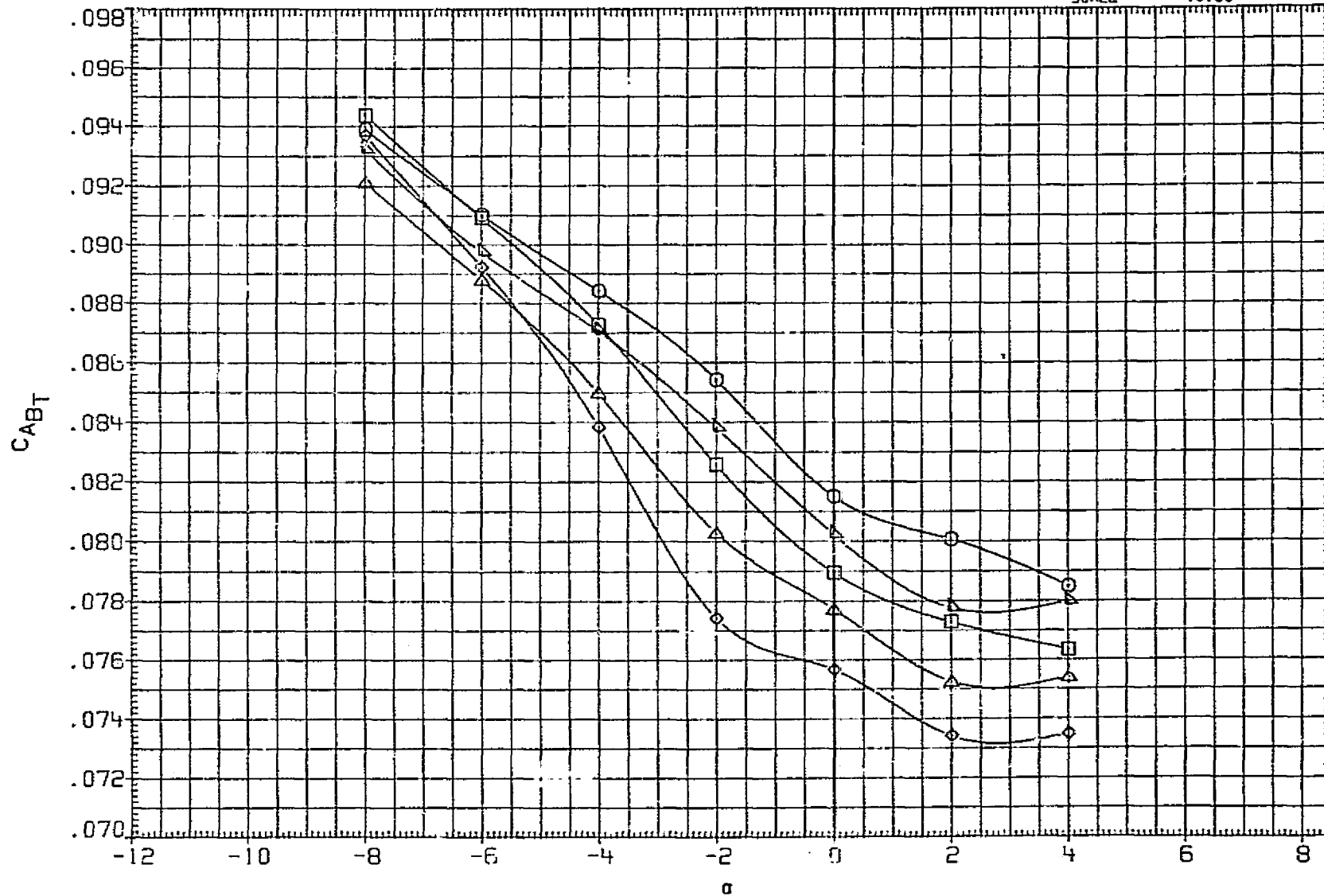


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC BFT TPT 749 (IA93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ. FT.
MJJB28	□	LARC BFT TPT 749 (IA93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC BFT TPT 749 (IA93) OTSAT130	.000	12.000	4.000	12.000	4.000	SREF	1290.3000	INCHES
MJJB30	△	LARC BFT TPT 749 (IA93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC BFT TPT 749 (IA93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0600	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

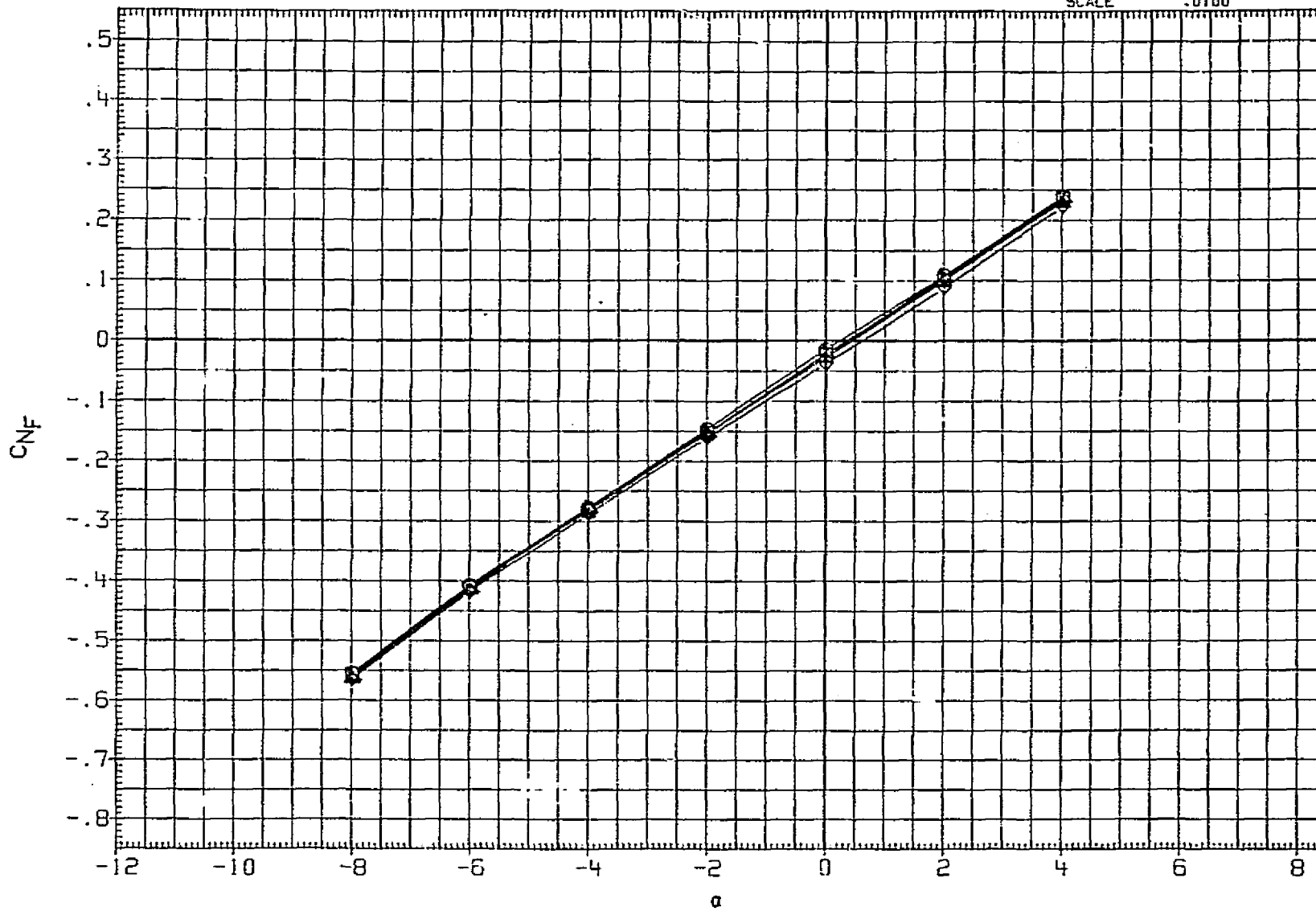


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2699.0000	SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

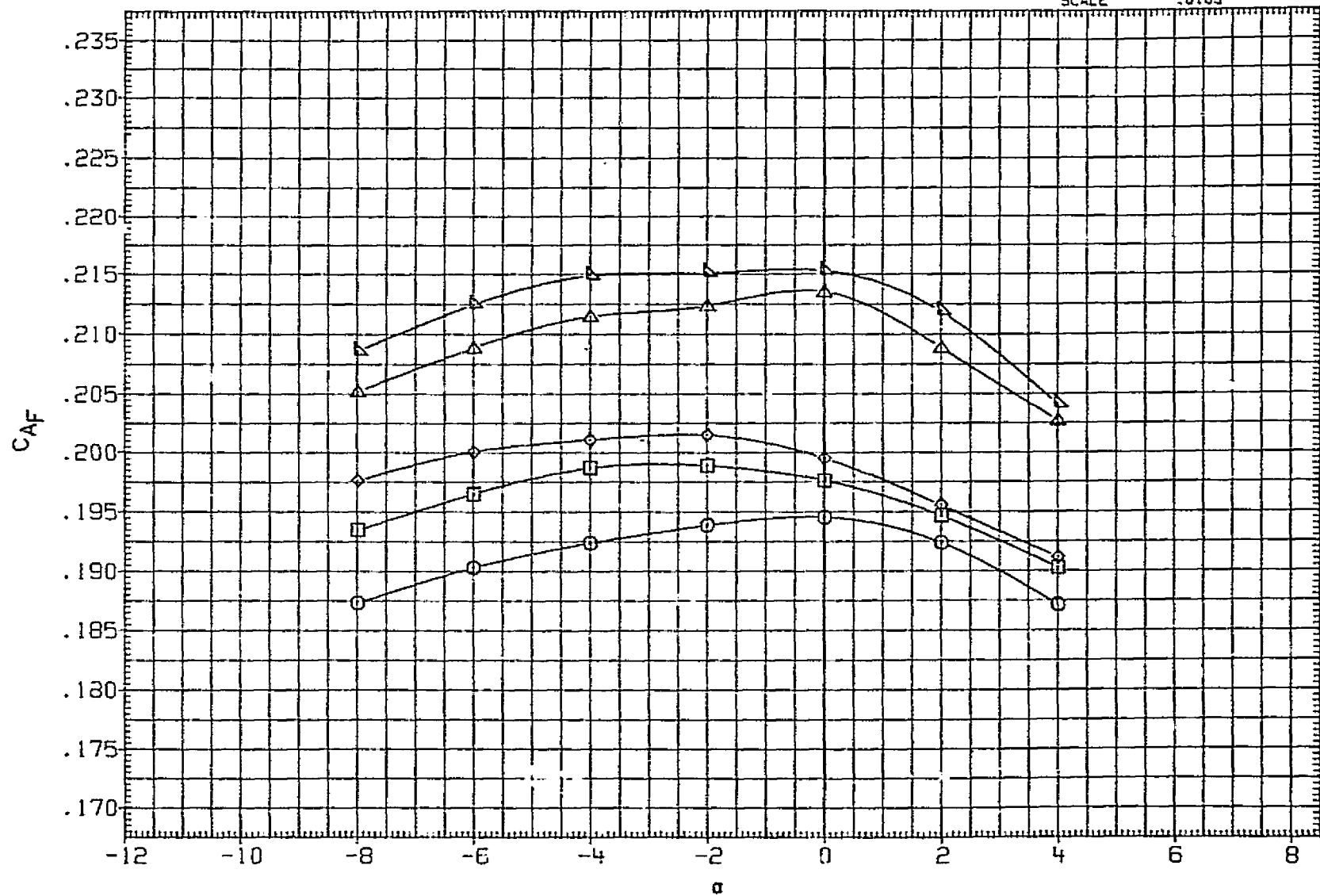


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

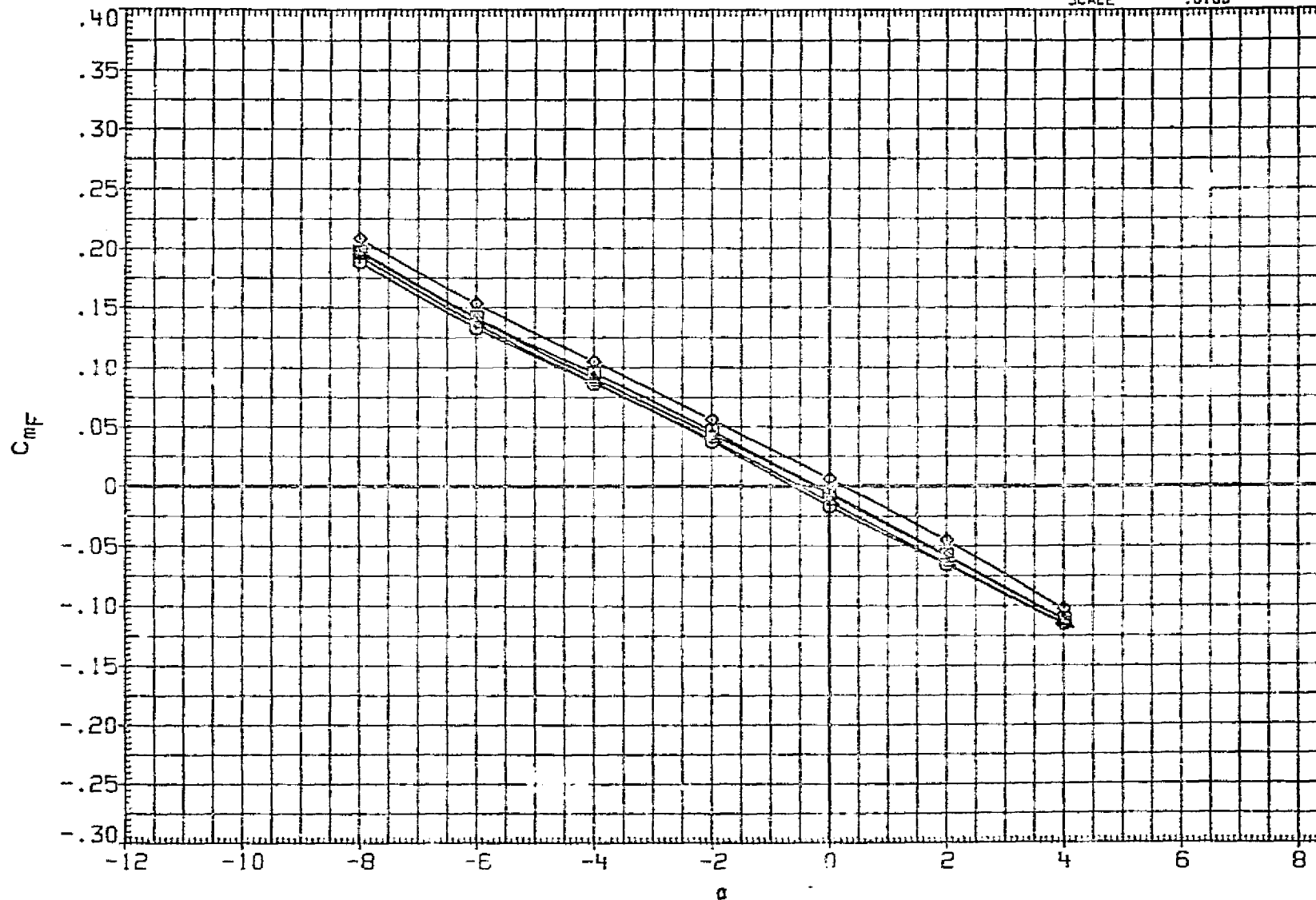


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	*REFERENCE INFORMATION		
MJJ827	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2299.0000	50. FT.
MJJ828	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1590.3000	100. INCH
MJJ829	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	100. INCH
MJJ830	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	100. IN. XT
MJJ831	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	100. IN. YT
								ZMRP	400.0000	100. IN. ZT
								SCALE	.0100	

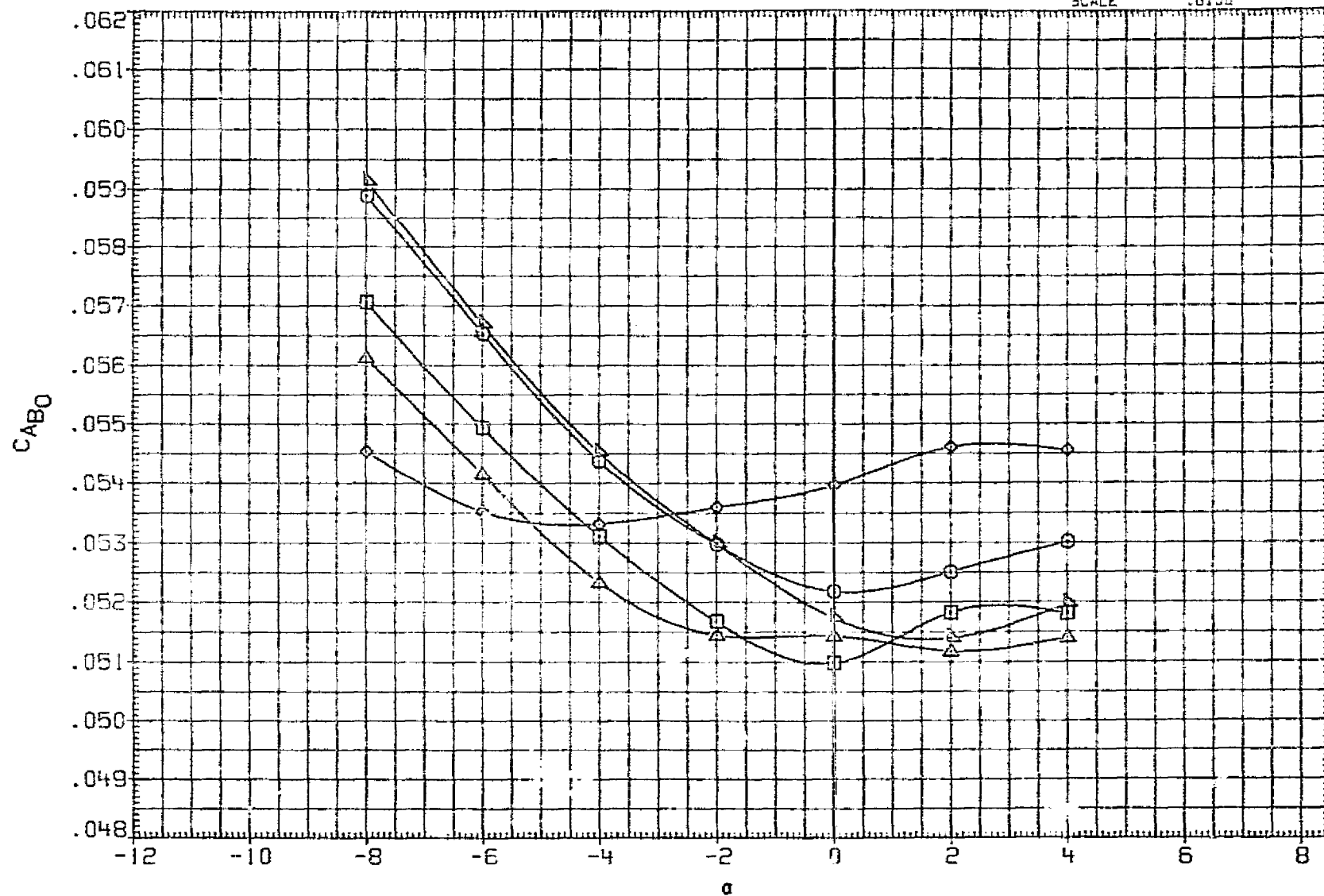


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

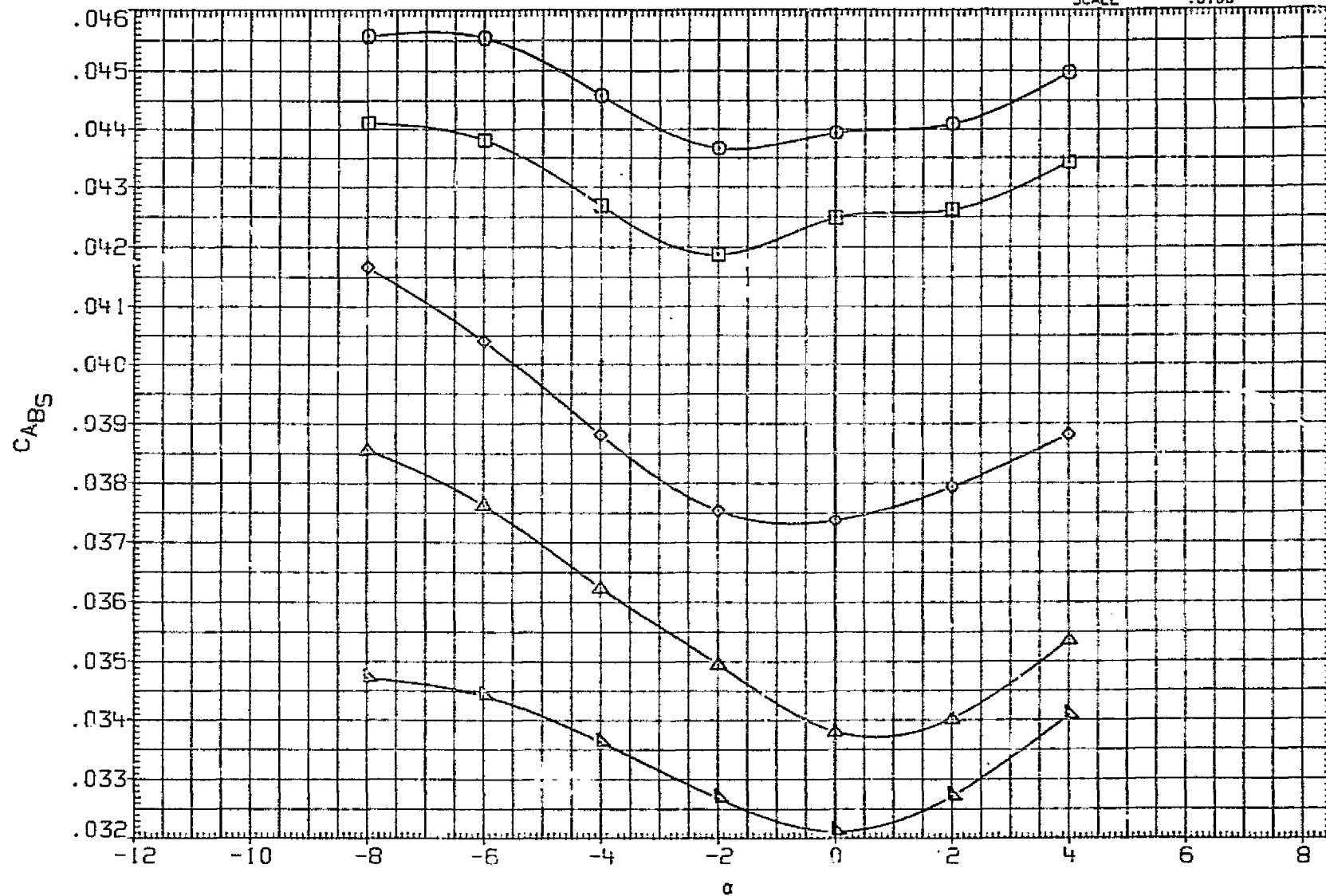


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION
MJJB27	○	LARC SFT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF 2890.0000 90. FT.
MJJB28	□	LARC SFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF 1890.0000 100. FT.
MJJB29	◇	LARC SFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF 1890.0000 100. FT.
MJJB30	△	LARC SFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XREF 975.0000 100. FT.
MJJB31	▽	LARC SFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YREF .0000 100. FT.
								ZMRP 400.0000 100. FT.
								SCALE .0100

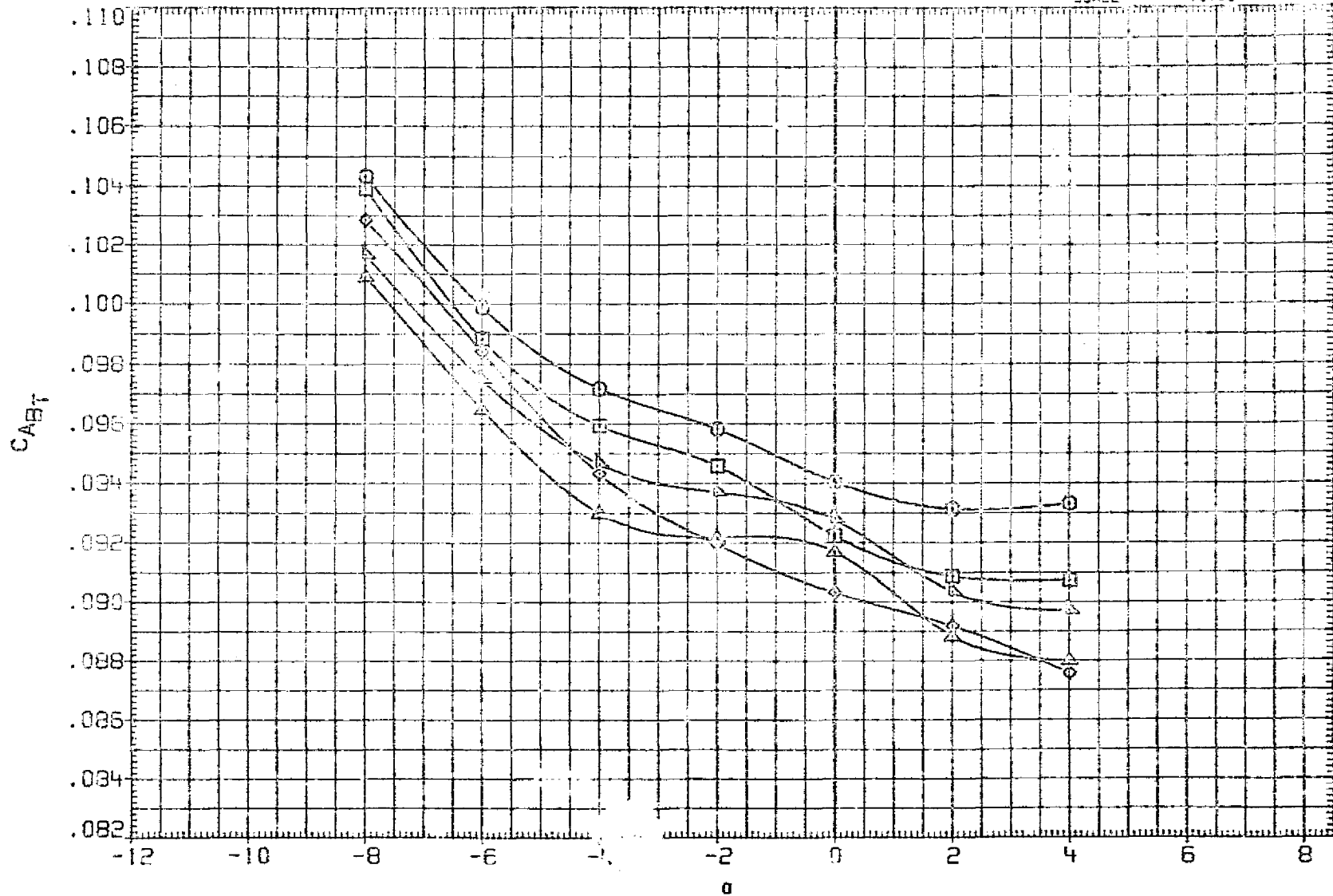


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

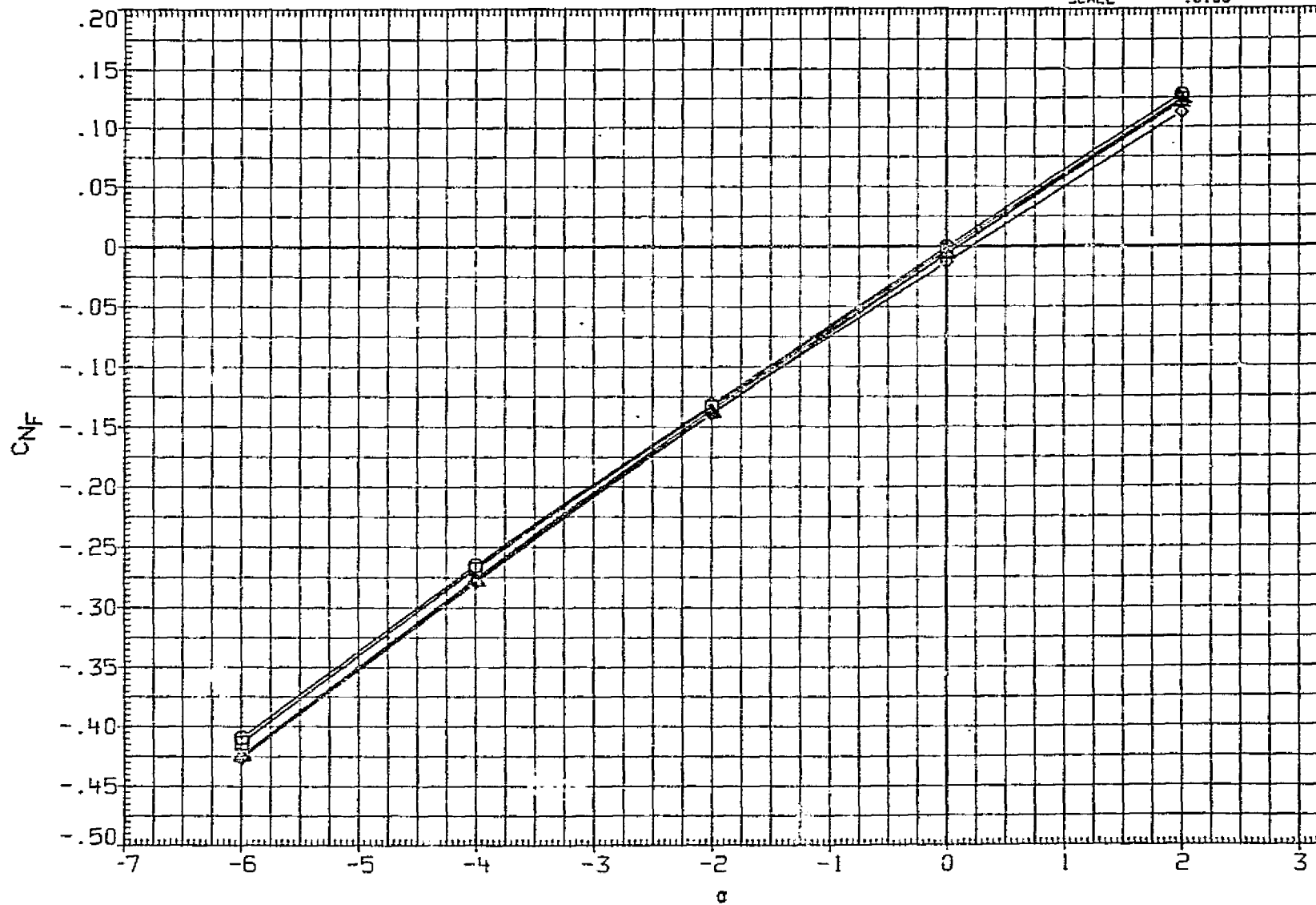


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LG	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○ LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2650.0000	50. FT.
MJJB28	□ LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇ LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△ LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. FT
MJJB31	▽ LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. FT
							ZMRP	400.0000	IN. FT
							SCALE	.0100	

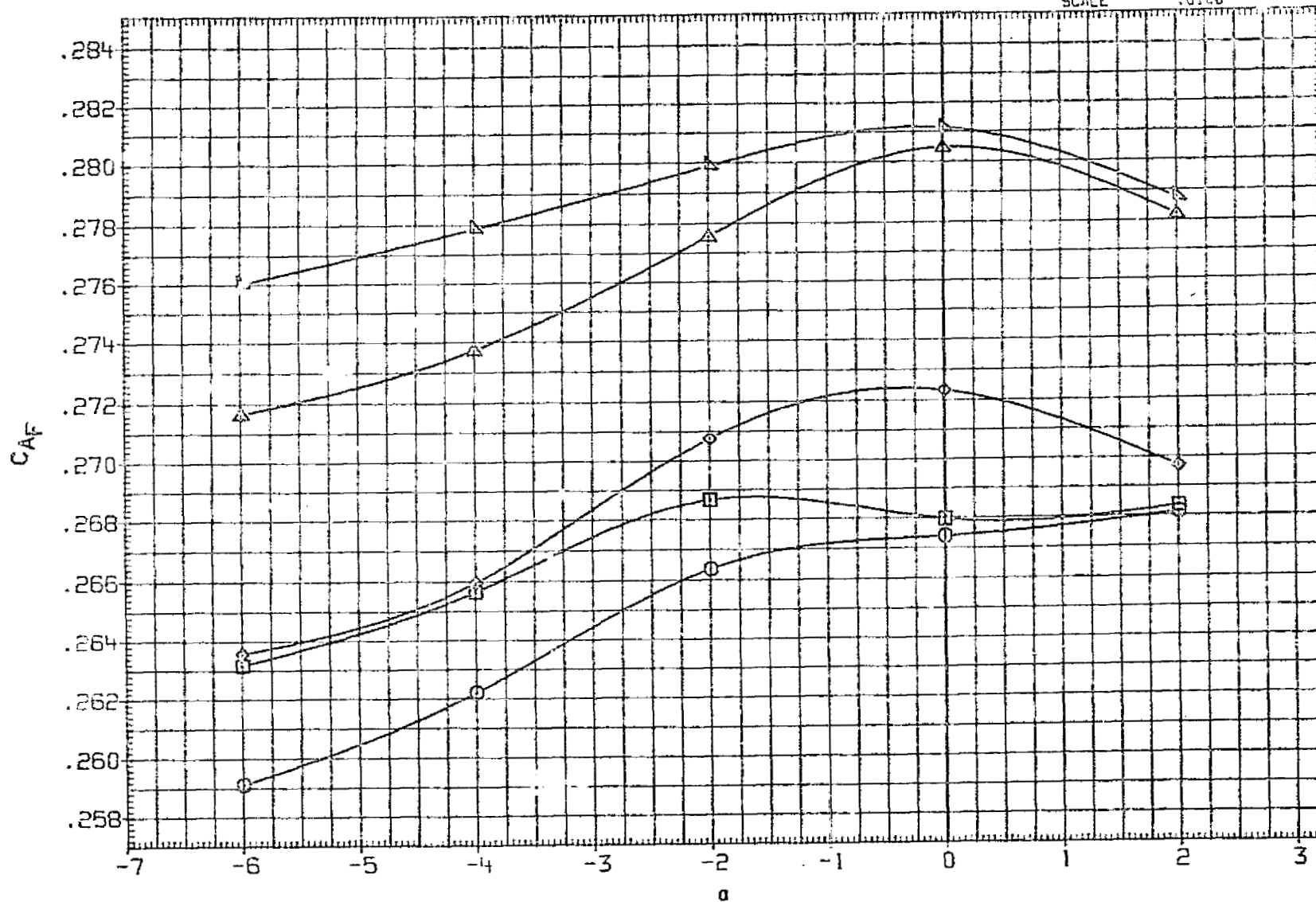


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

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DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

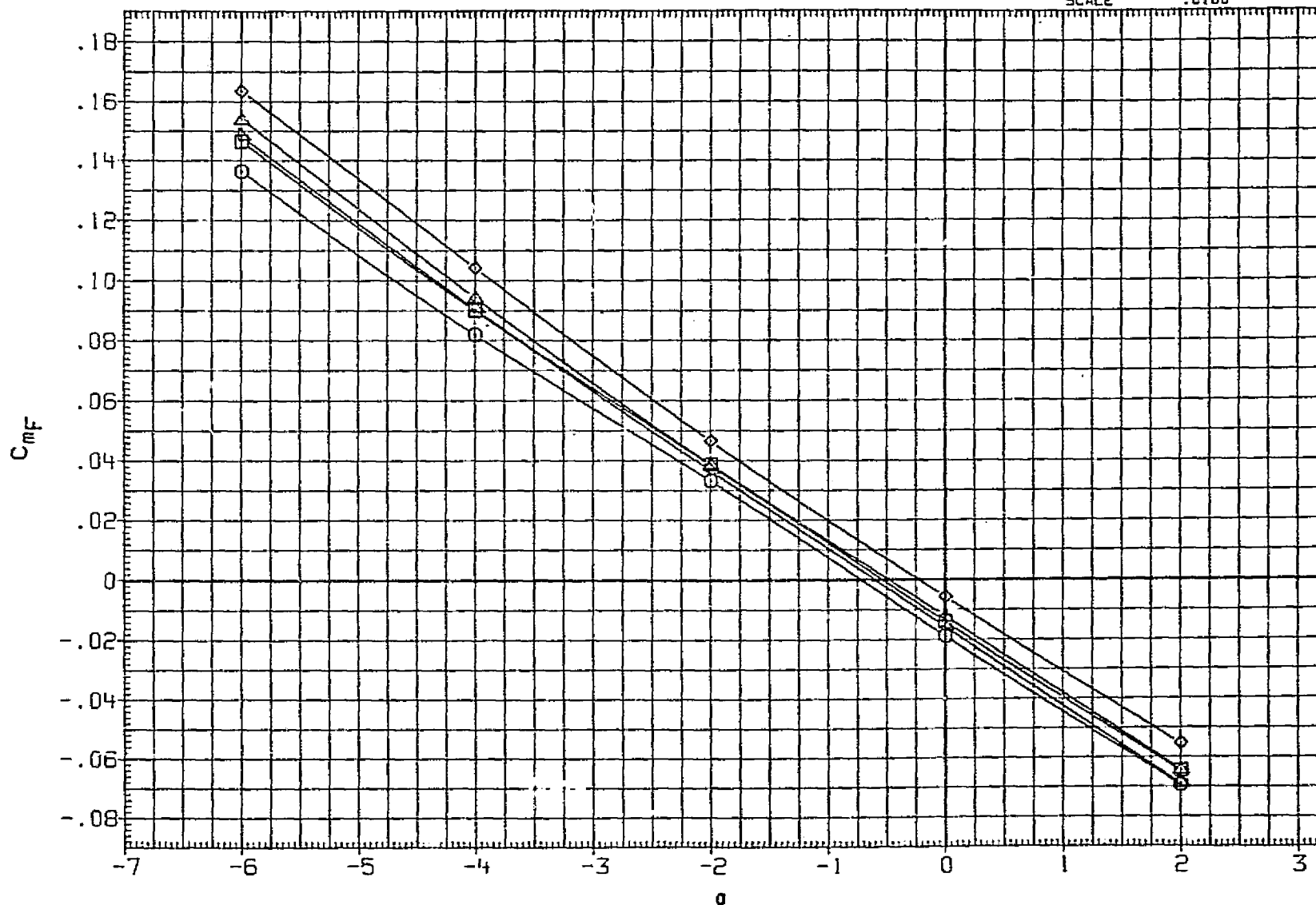


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	REF	8690.0000	90.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	REF	1280.3000	100-IN
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	REF	1280.3000	100-IN
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	ZMRP	976.0000	IN. 87
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. 97
								ZMRP	400.0000	IN. 27
								SCALE	.0100	

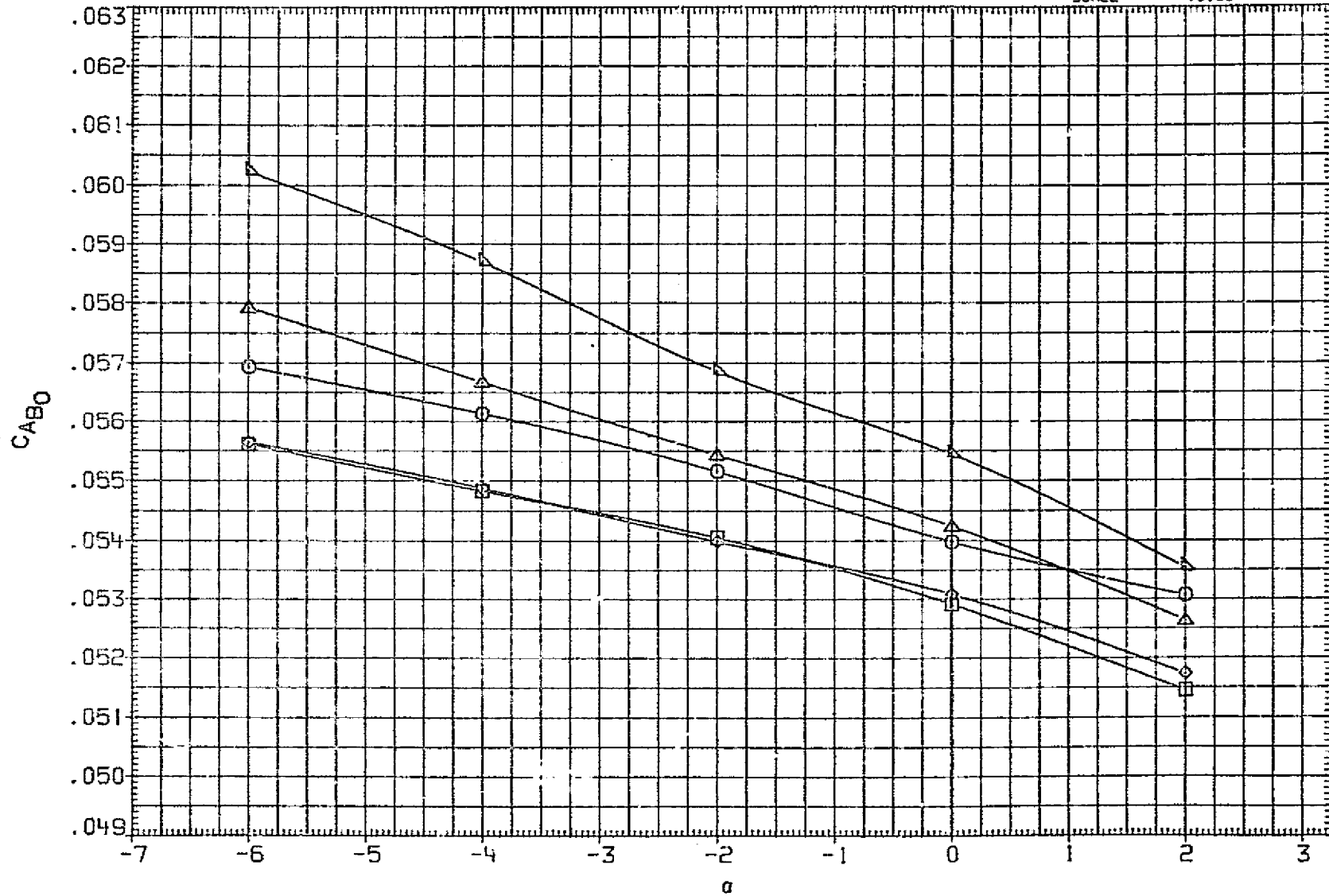


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	FLV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ. FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

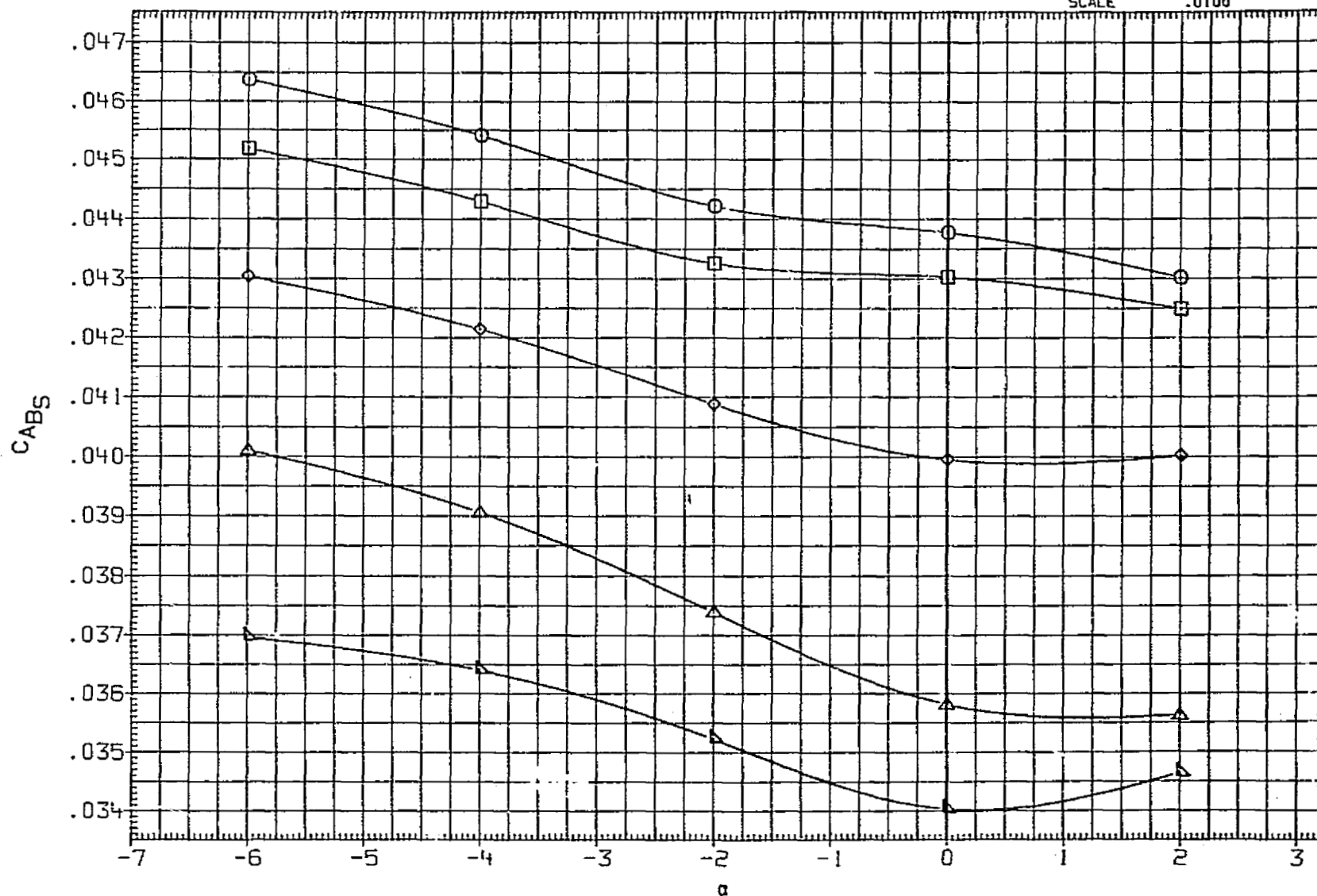


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF 2690.0000 SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF 1290.3000 INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF 1290.3000 INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP 976.0000 IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

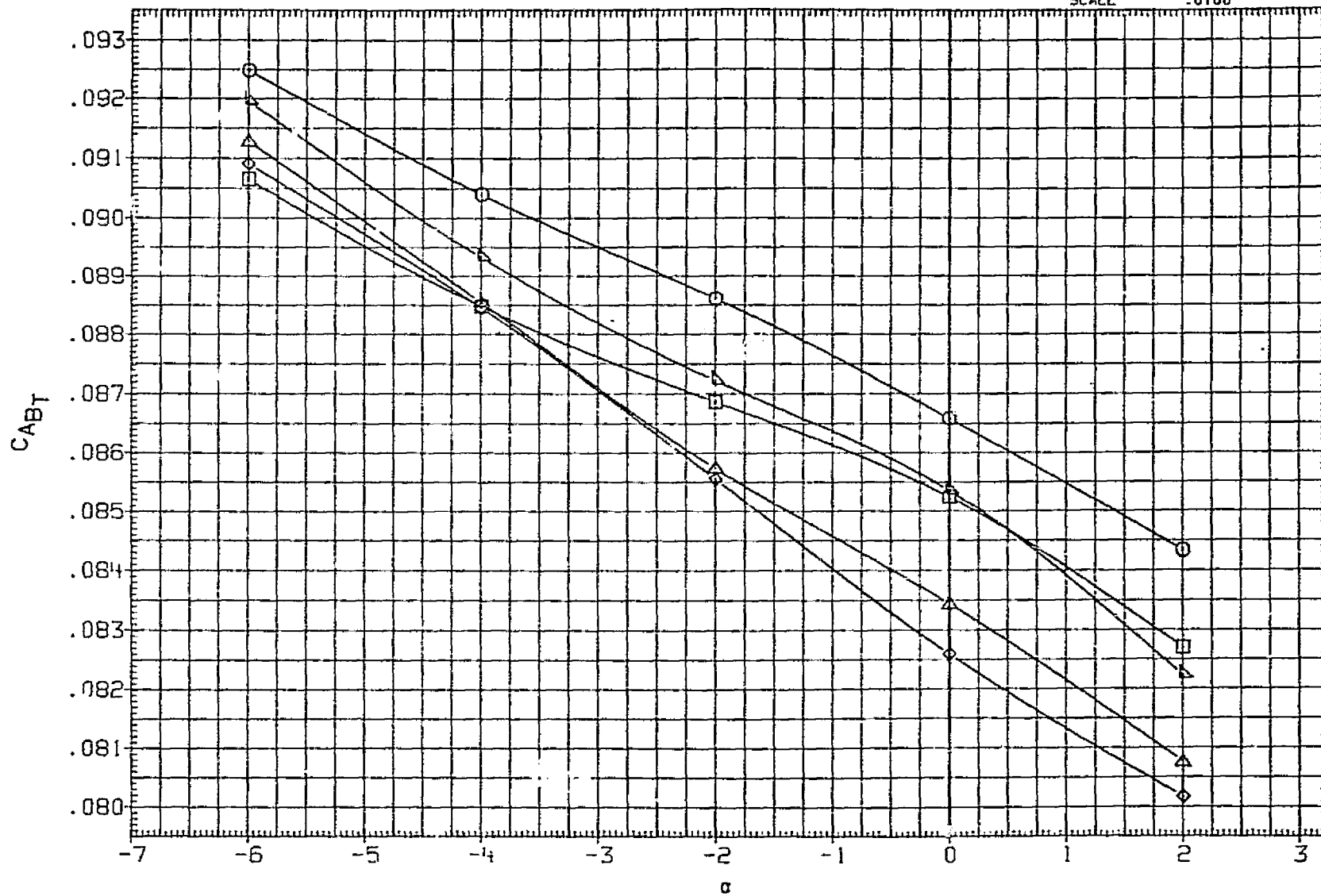


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	YMRP	976.0000	IN. XT
MJJB31	△	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

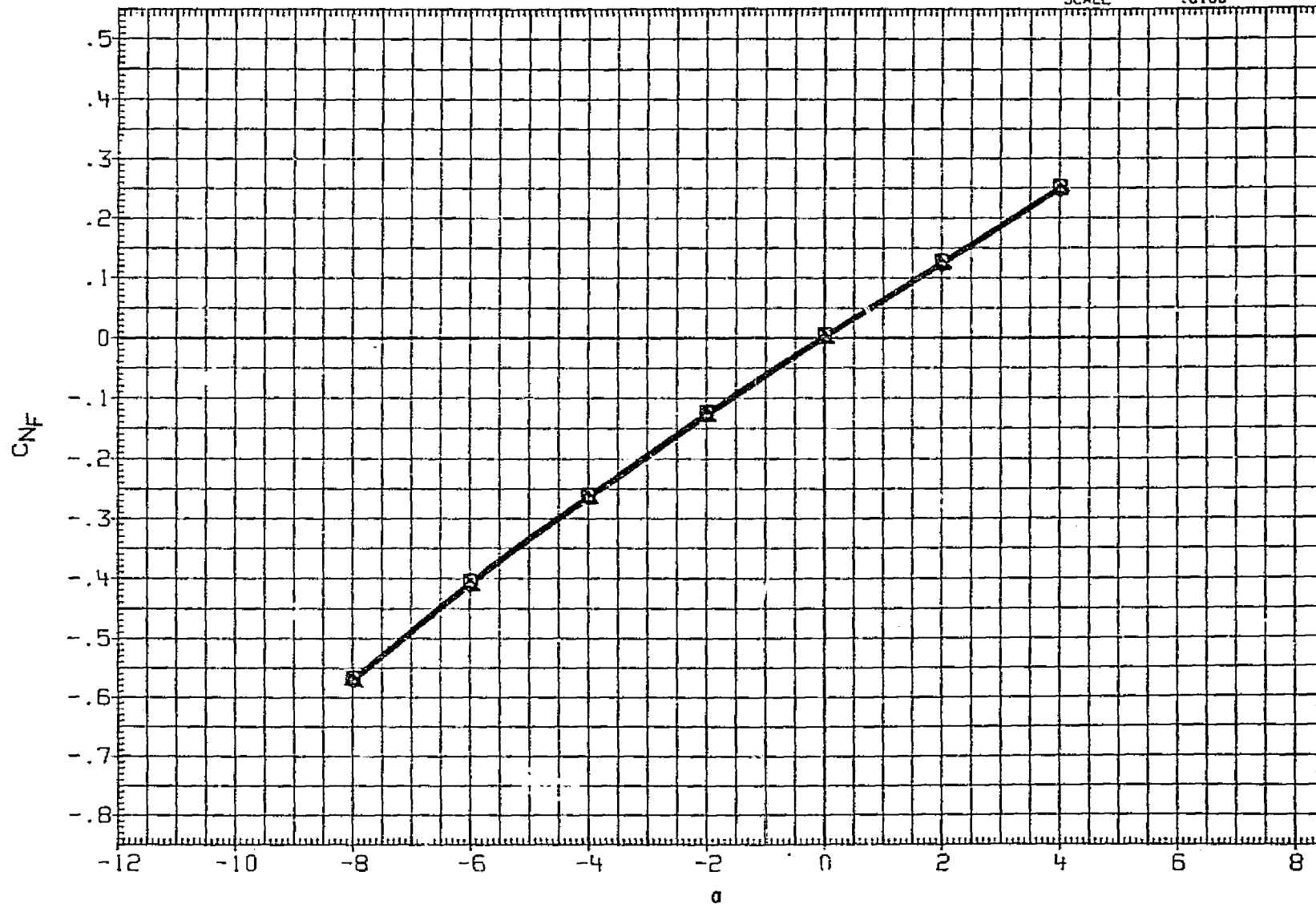


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.500	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

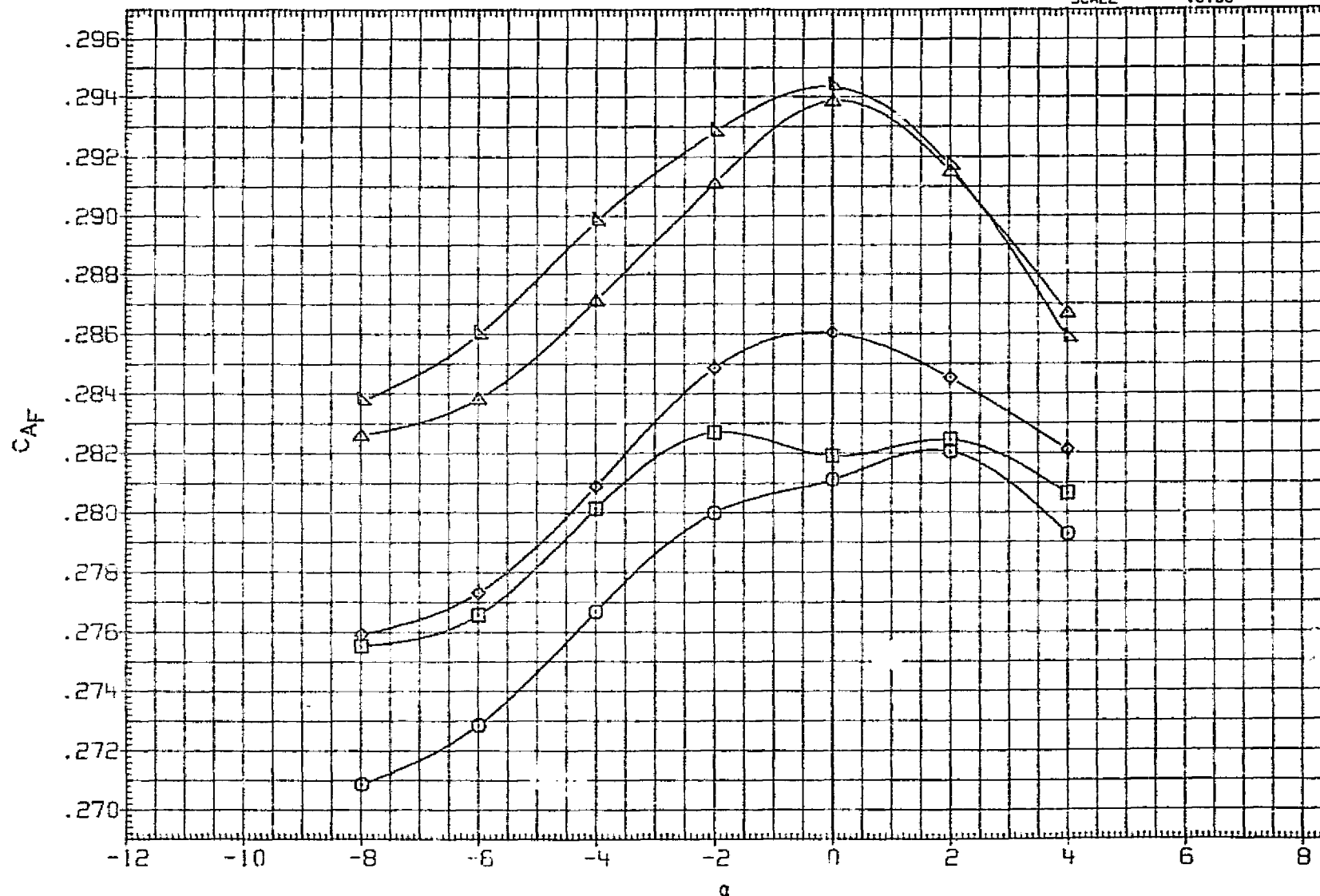


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

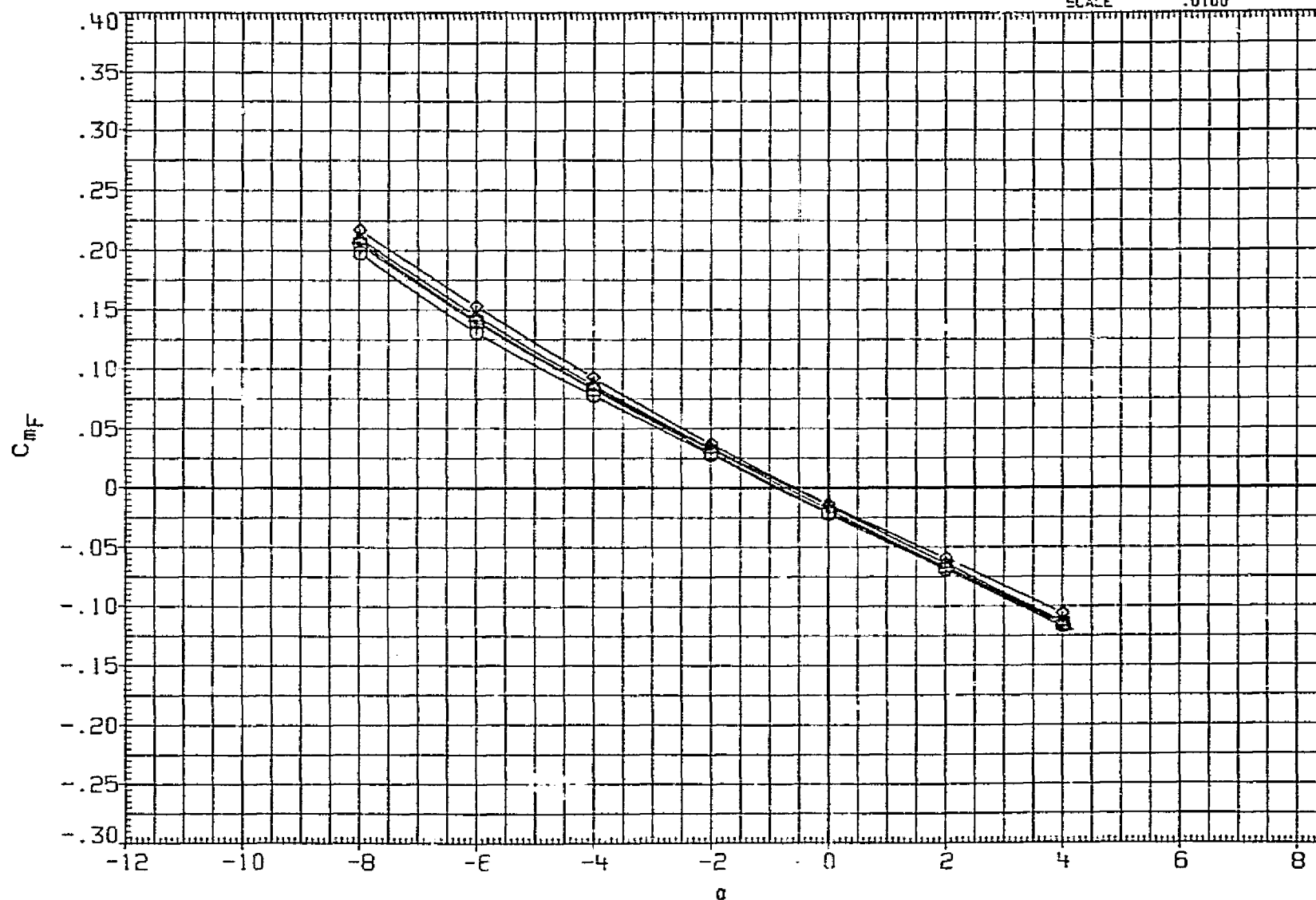


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC BFT TPT 749 (IA93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□	LARC BFT TPT 749 (IA93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC BFT TPT 749 (IA93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC BFT TPT 749 (IA93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC BFT TPT 749 (IA93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

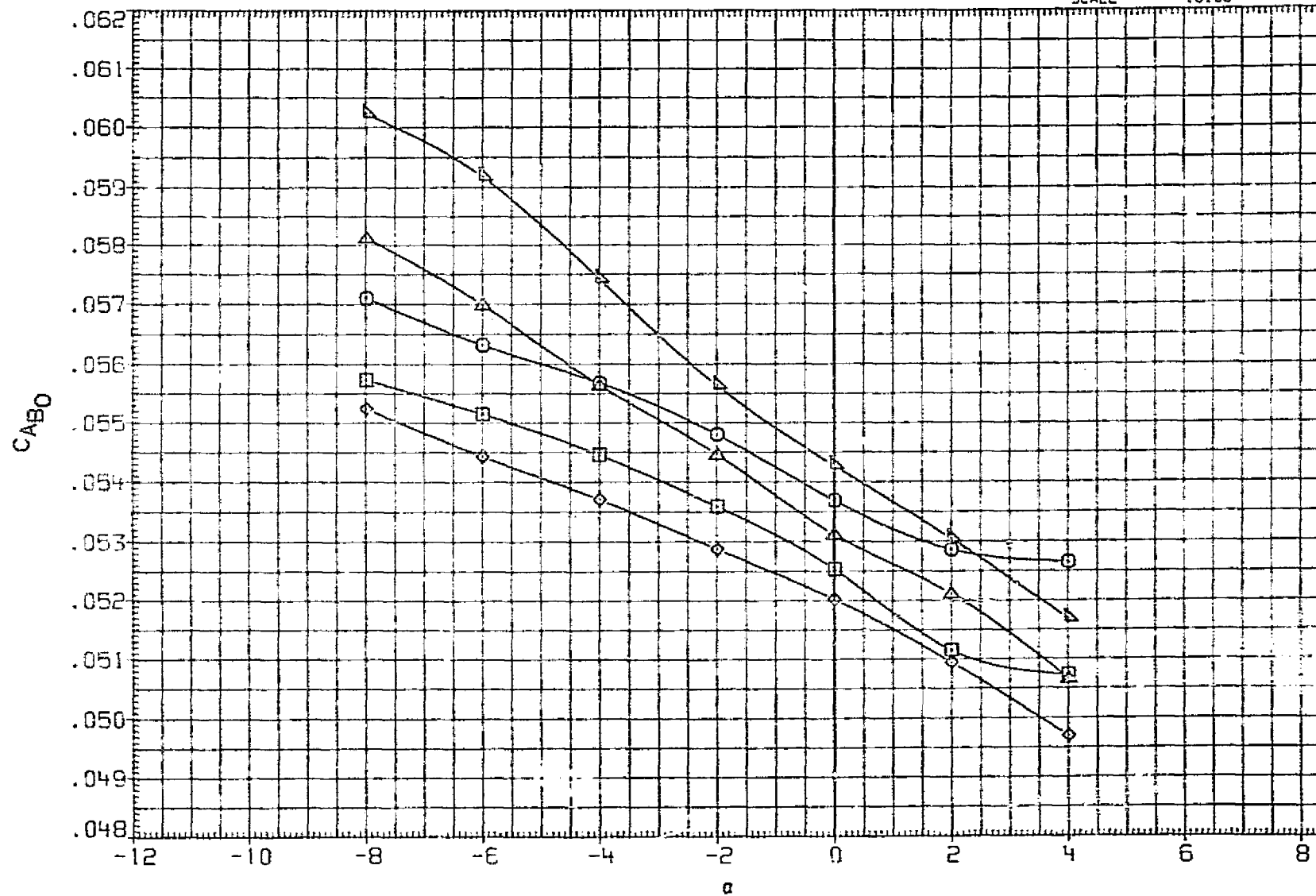


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJ.827	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJ.828	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJ329	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.300	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

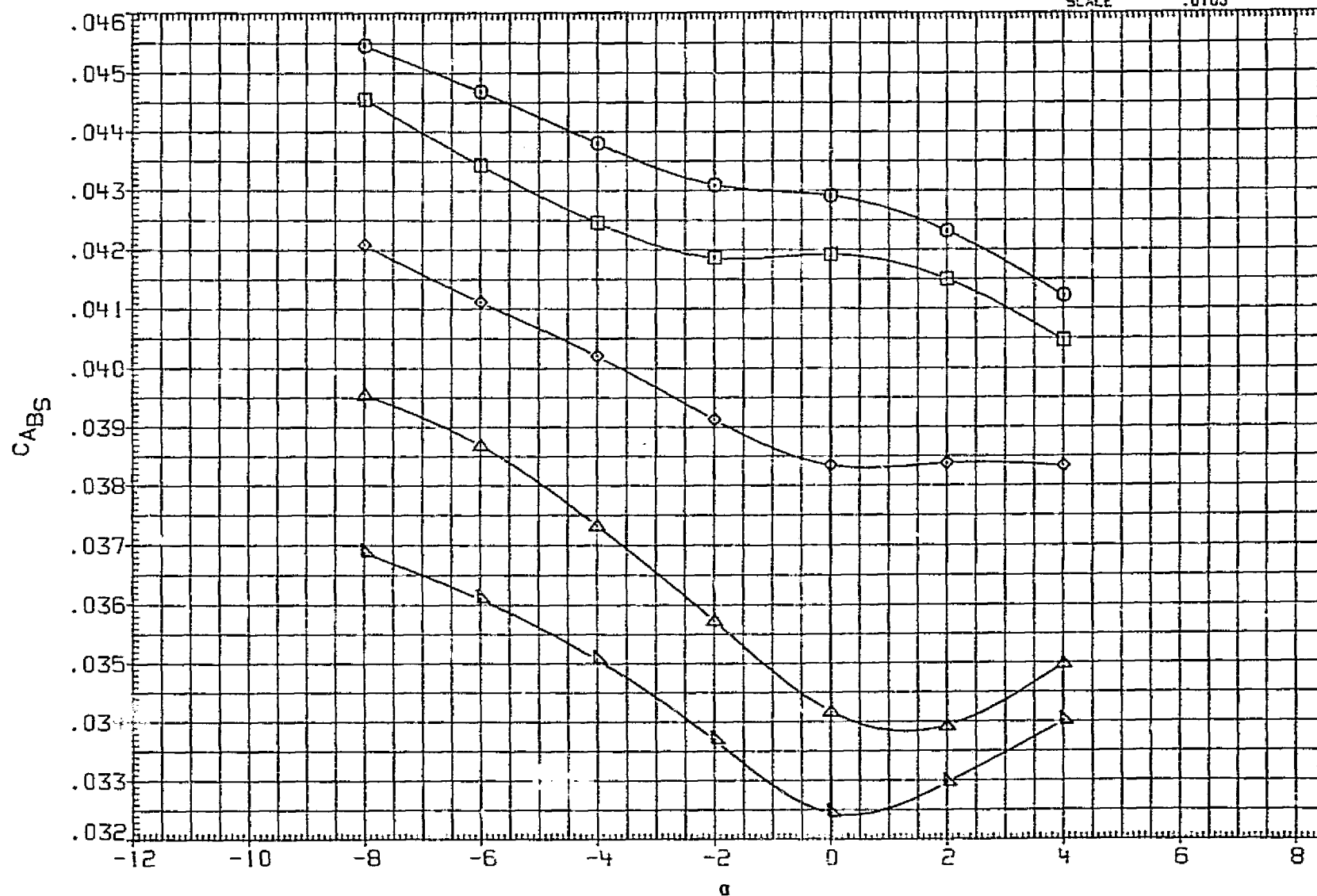


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

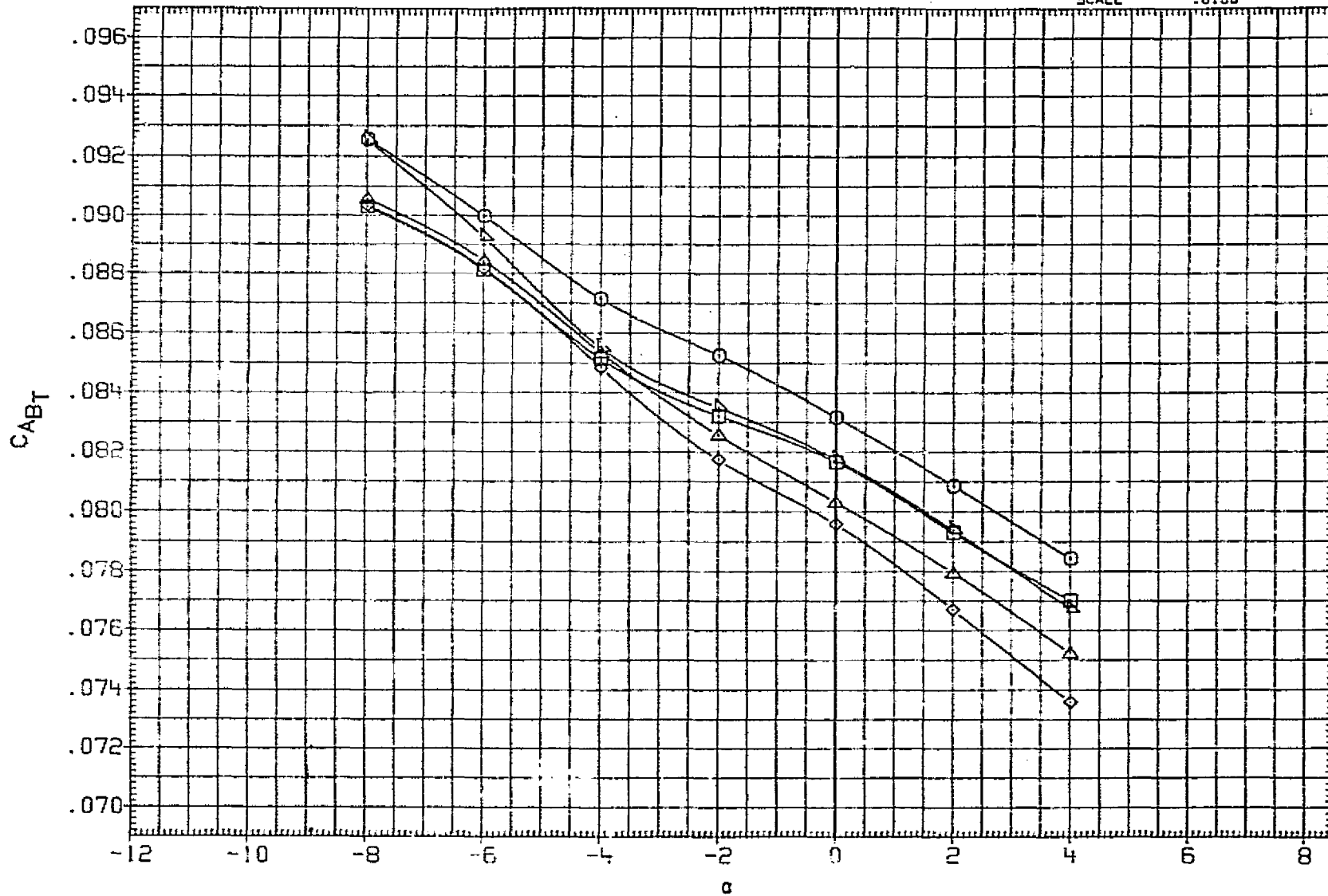


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

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DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJB32	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF 2690.0000 SQ. FT.
MJB33	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF 1290.3000 INCHES
MJB34	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF 1290.3000 INCHES
MJB35	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP 976.0000 IN. XT
MJB36	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

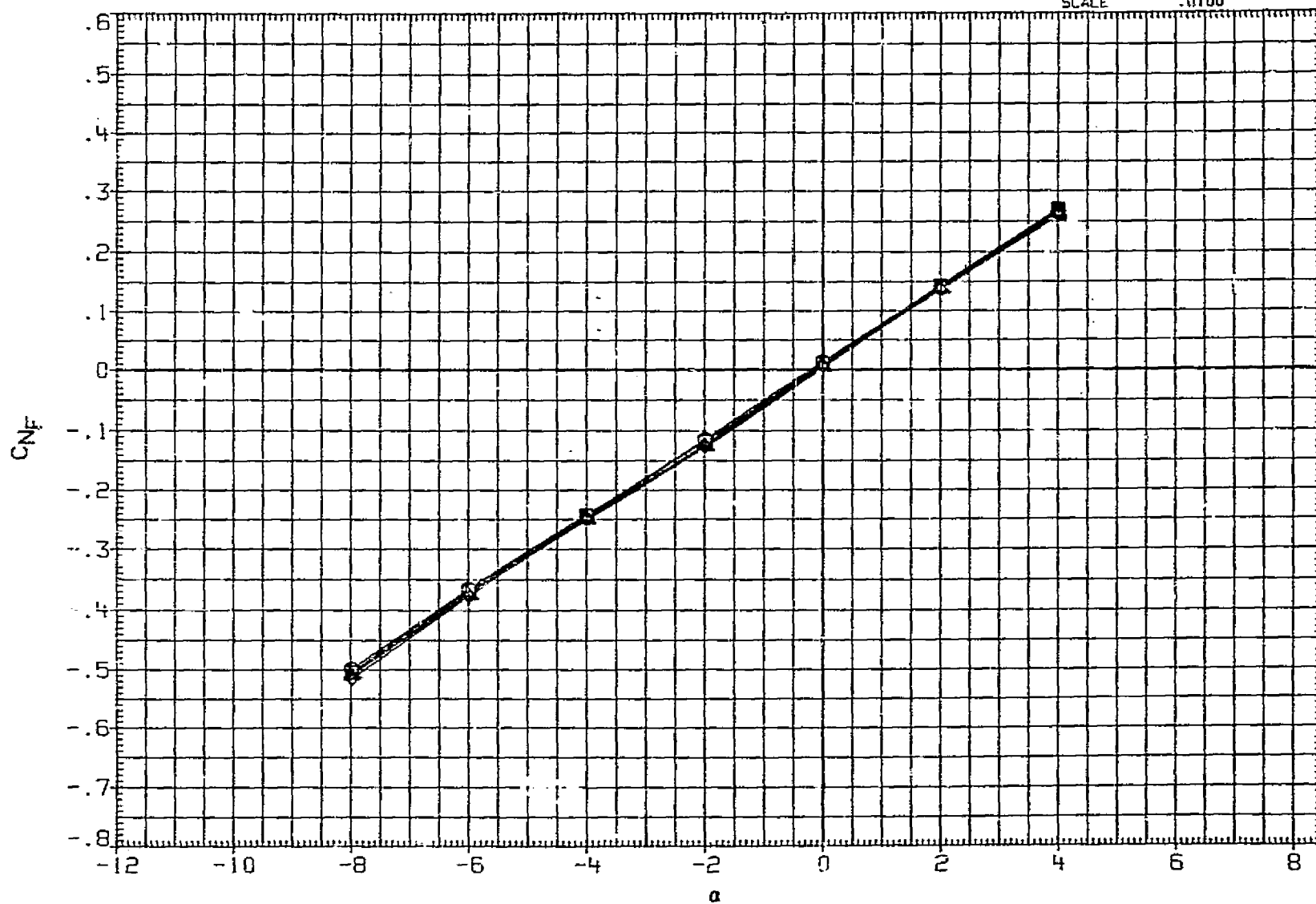


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB32	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	575.0000	IN. XT
MJJB36	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
							ZMRP	100.0000	IN. ZT
							SCALE	.0100	

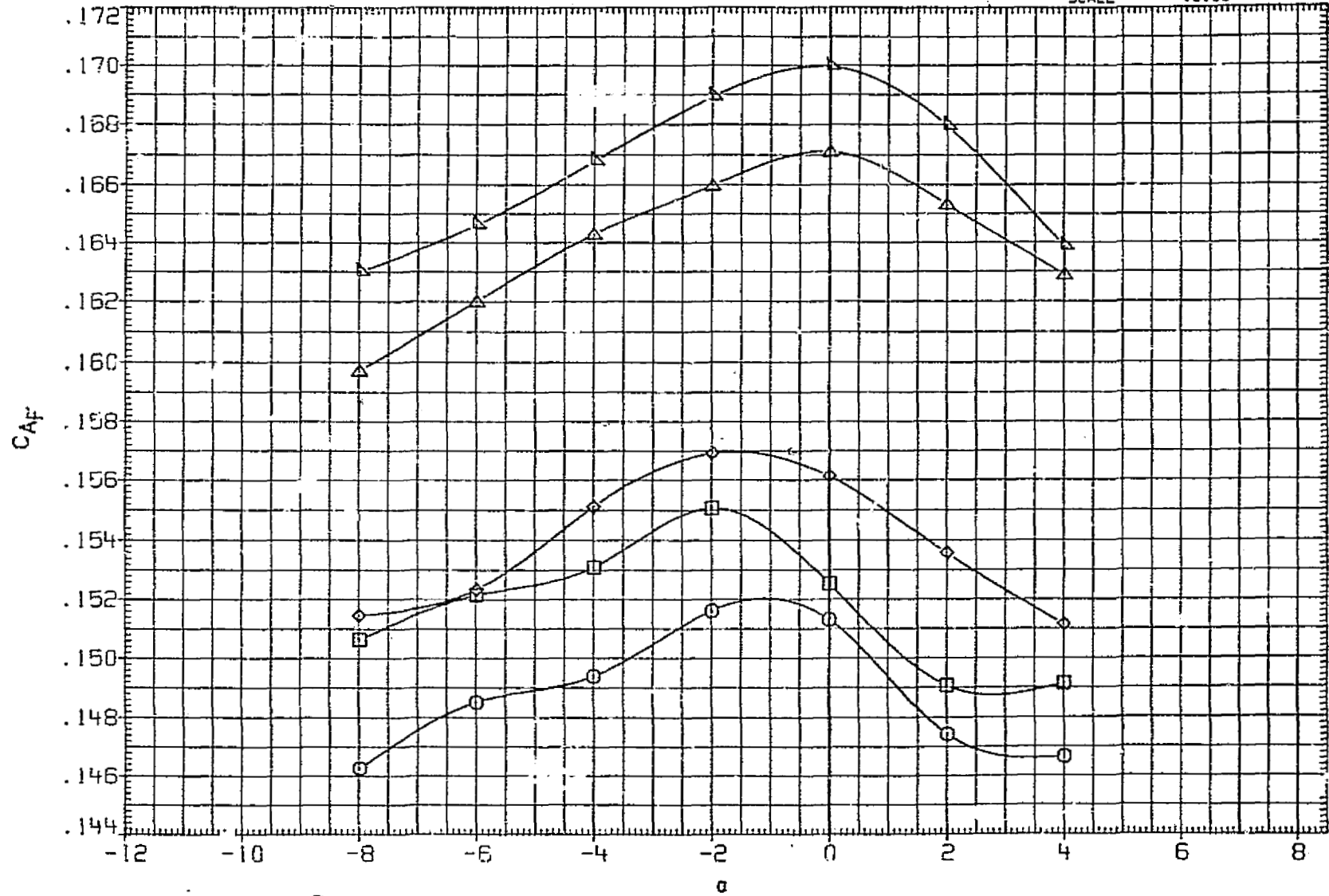


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A92) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. X1
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. Y1
								ZMRP	400.0000	IN. Z1
								SCALE	.0100	

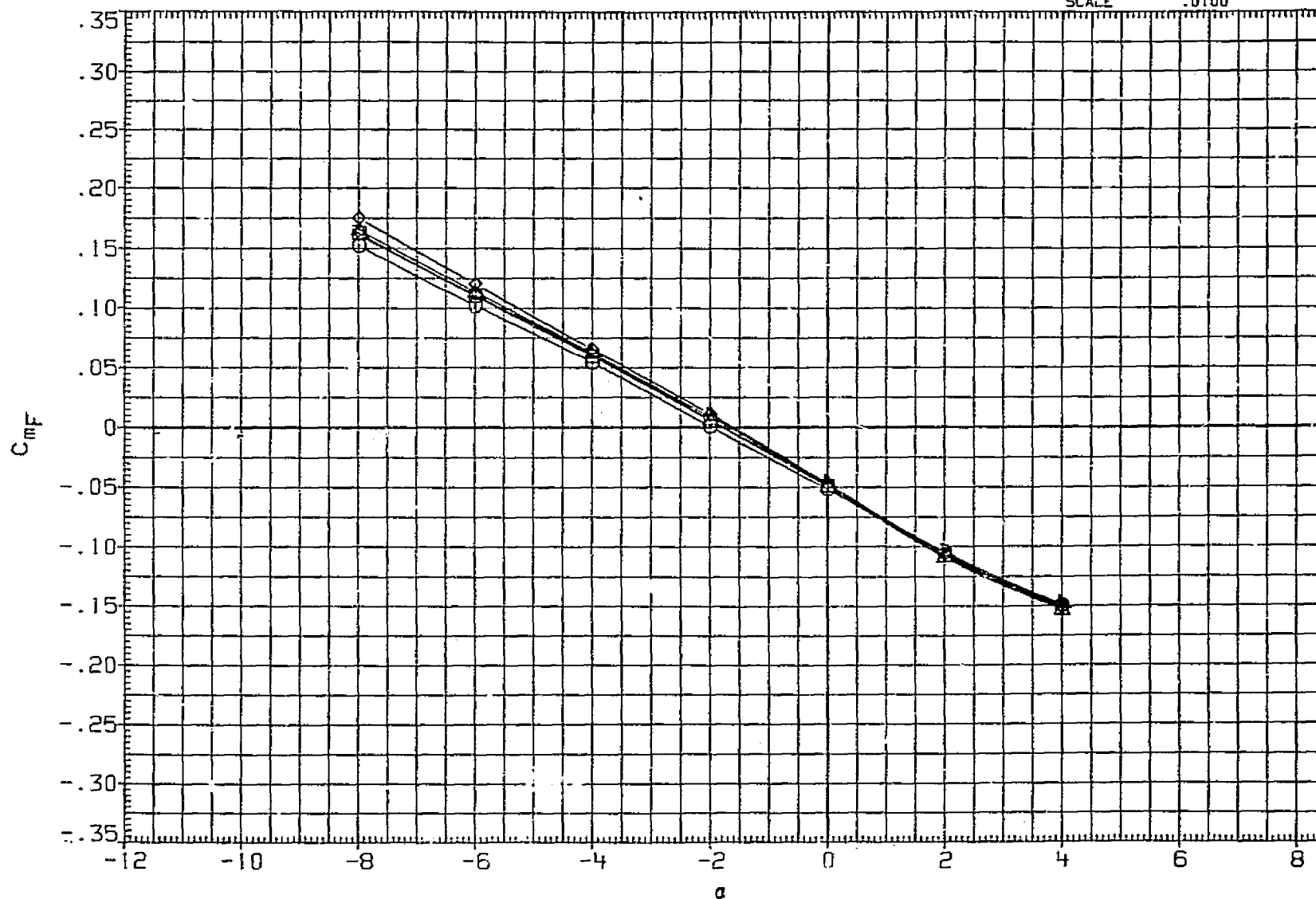


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT	
MJJB35	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

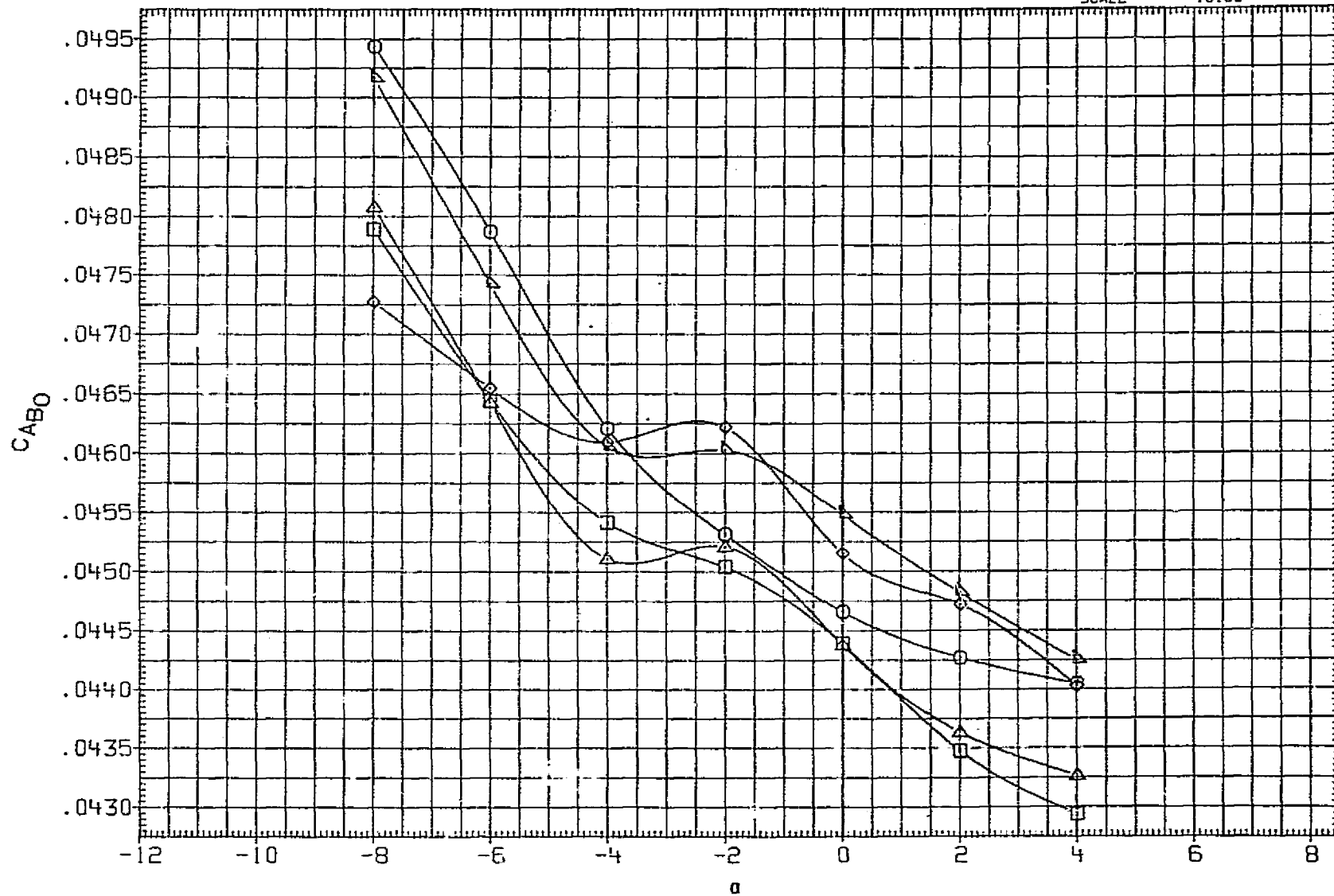


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50.FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	1INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	1INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT	
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

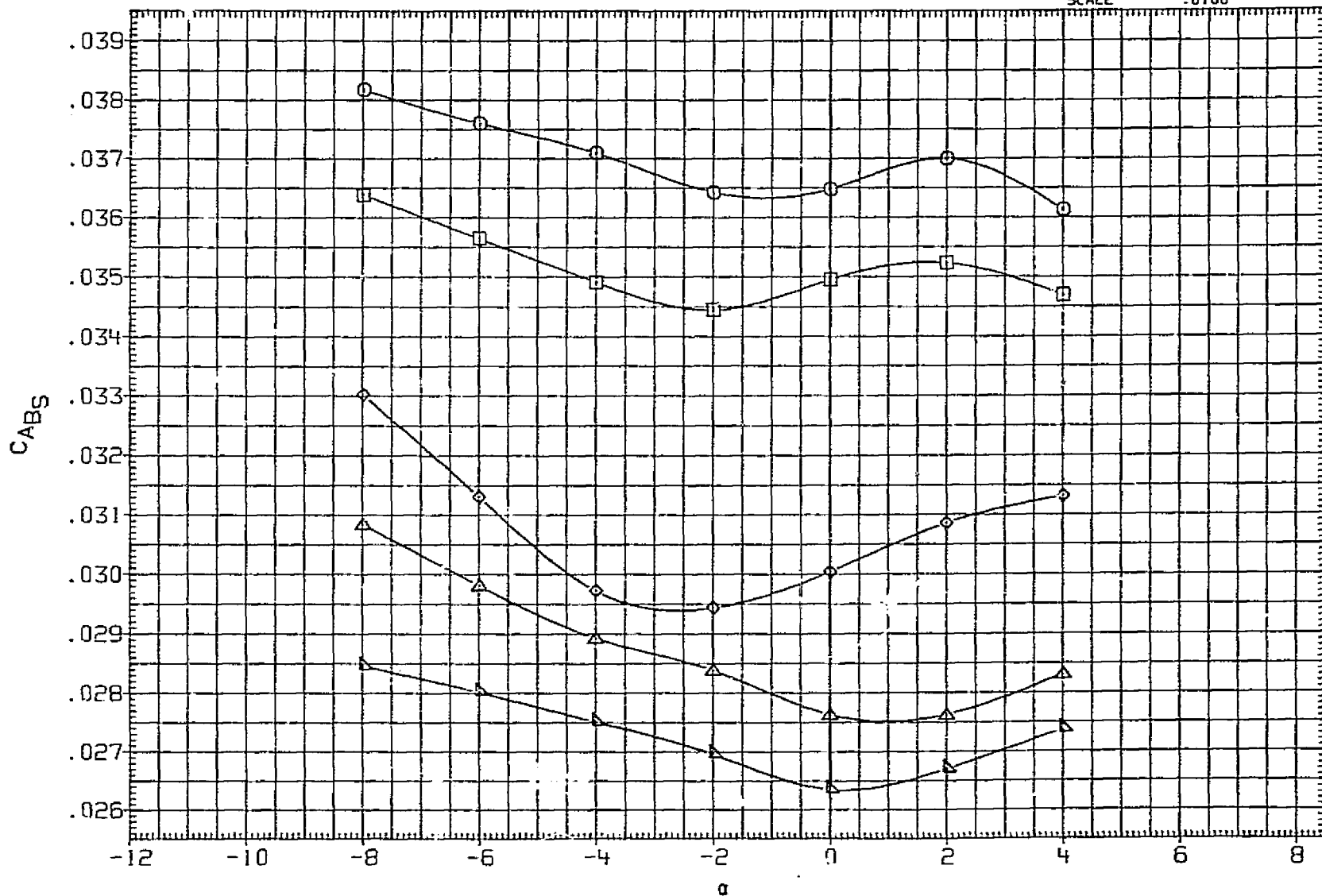


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RD	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	*N. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

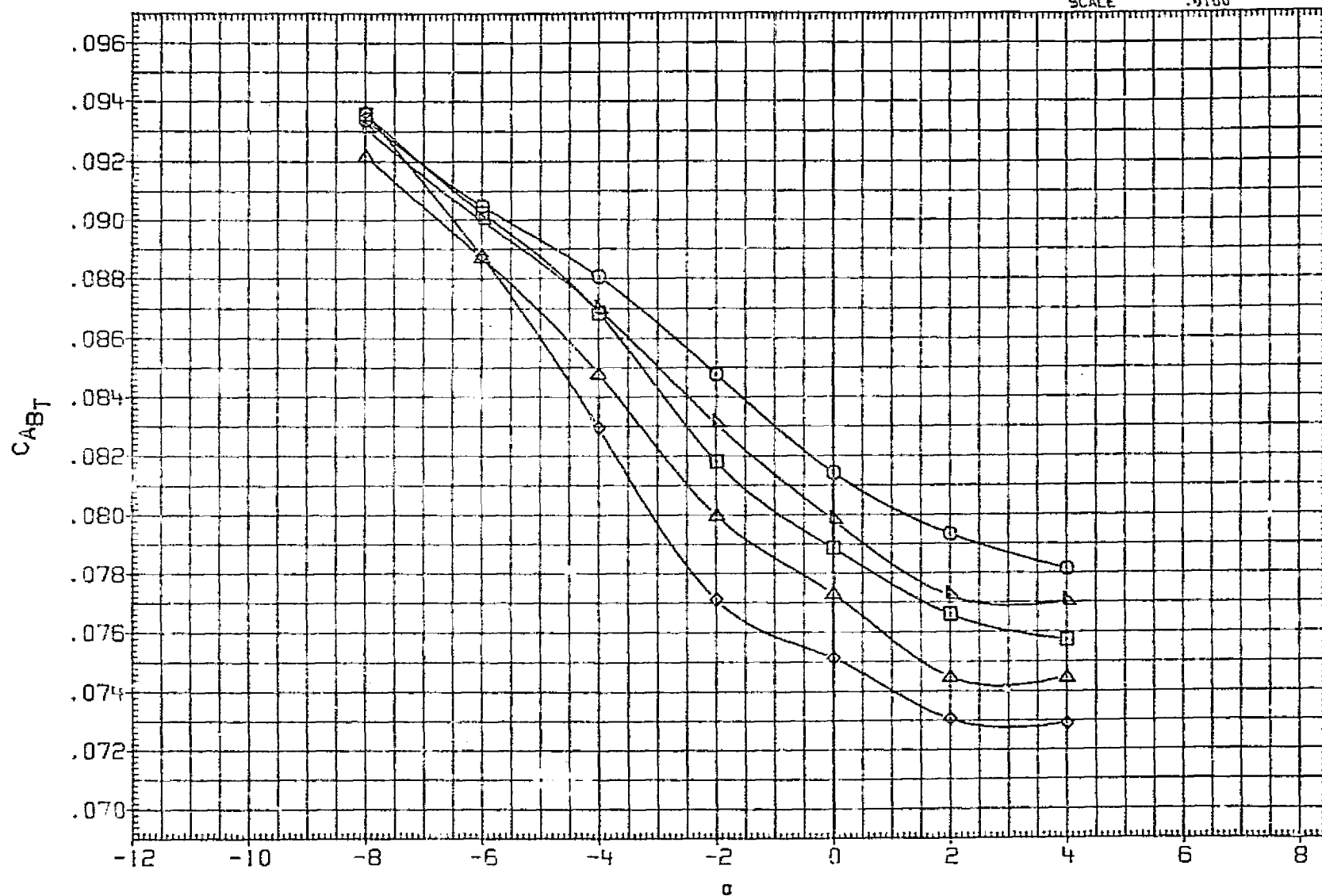


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50.FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	975.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

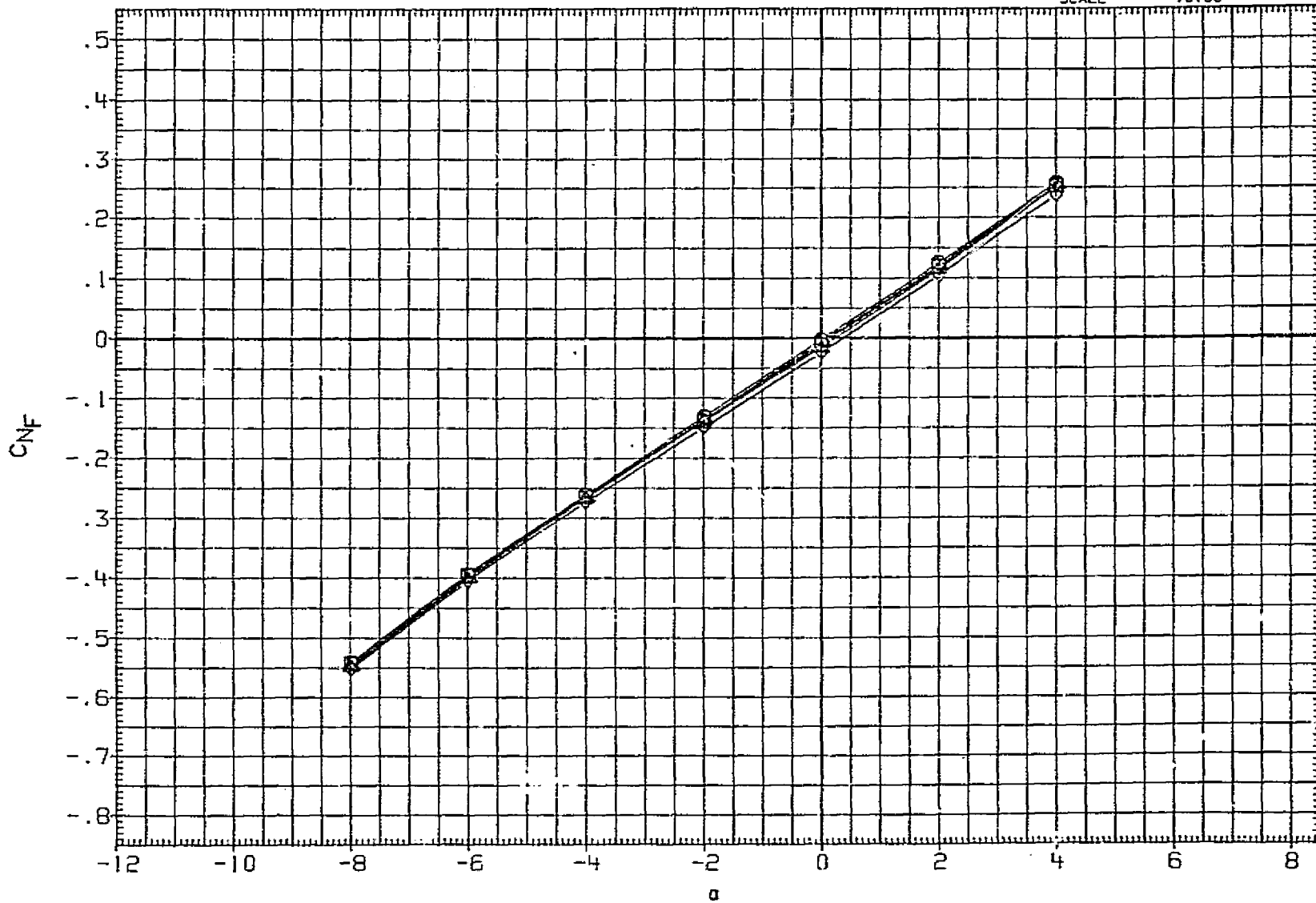


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB32	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	EREF	2690.0000 SQ.FT.
MJJB33	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000 INCHES
MJJB34	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000 INCHES
MJJB35	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000 IN. XT
MJJB36	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

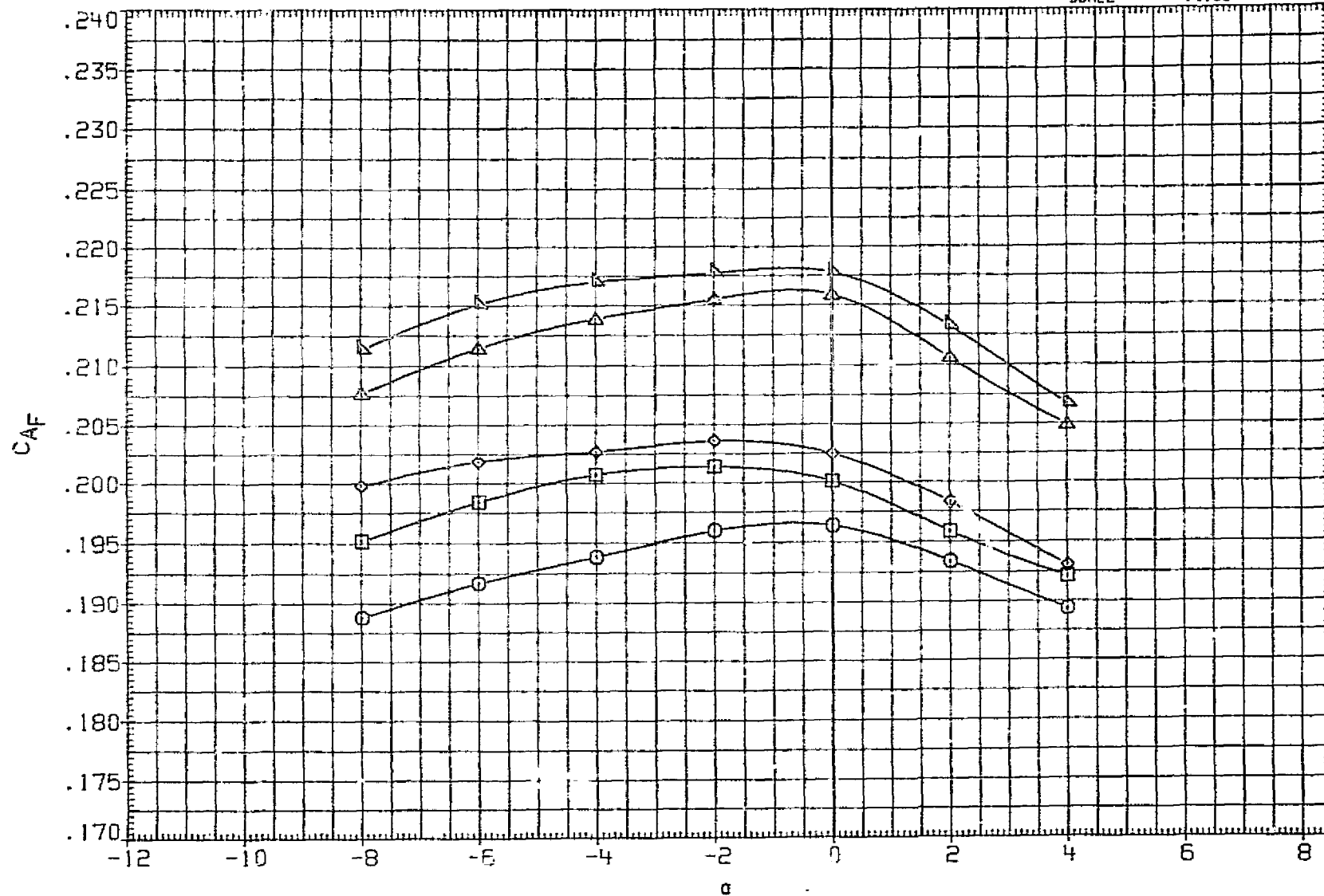


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

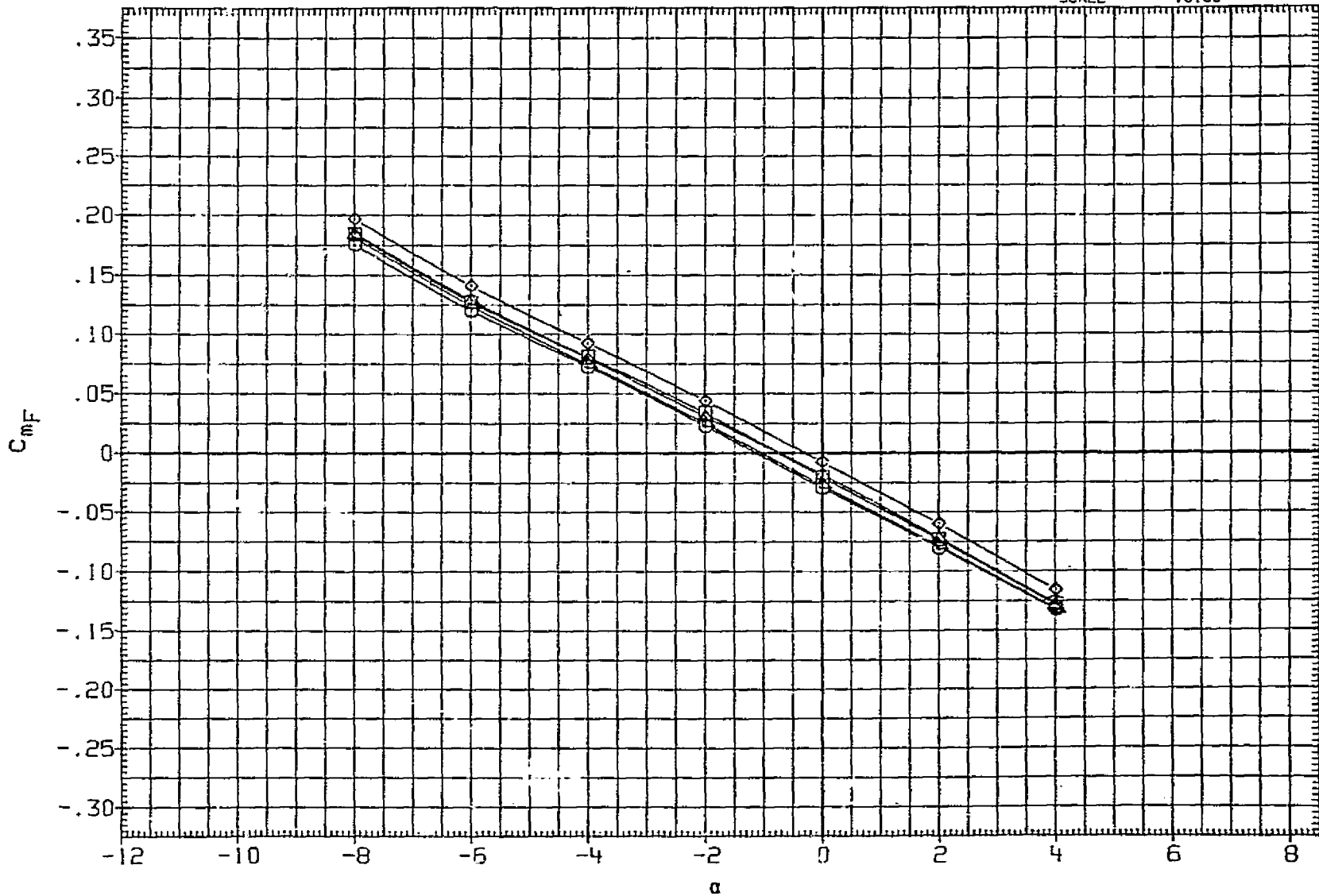


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2699.0000 SQ.FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000 INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000 INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000 IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

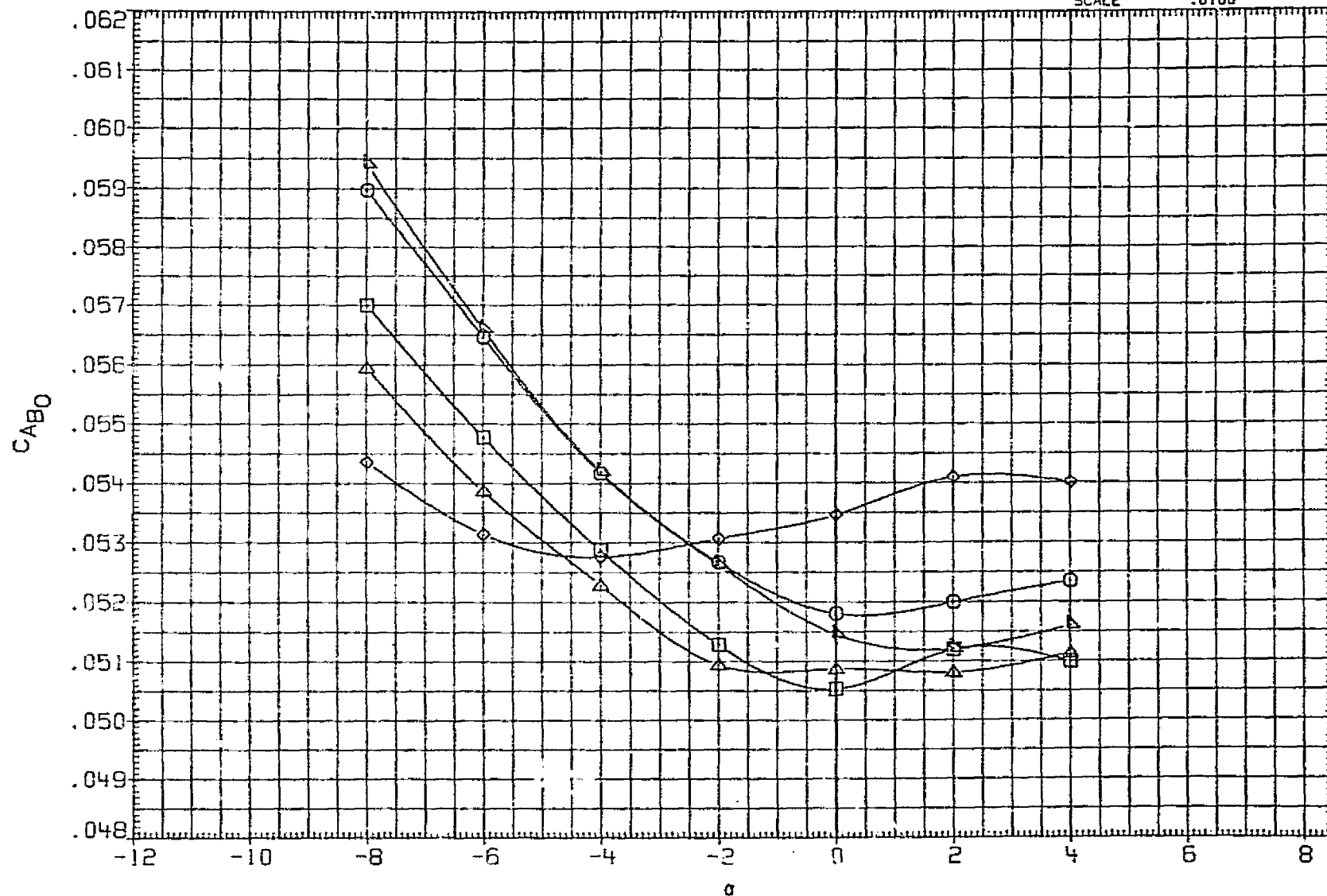


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	12.000	9.000	XHRP	975.0000	IN. XT	
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

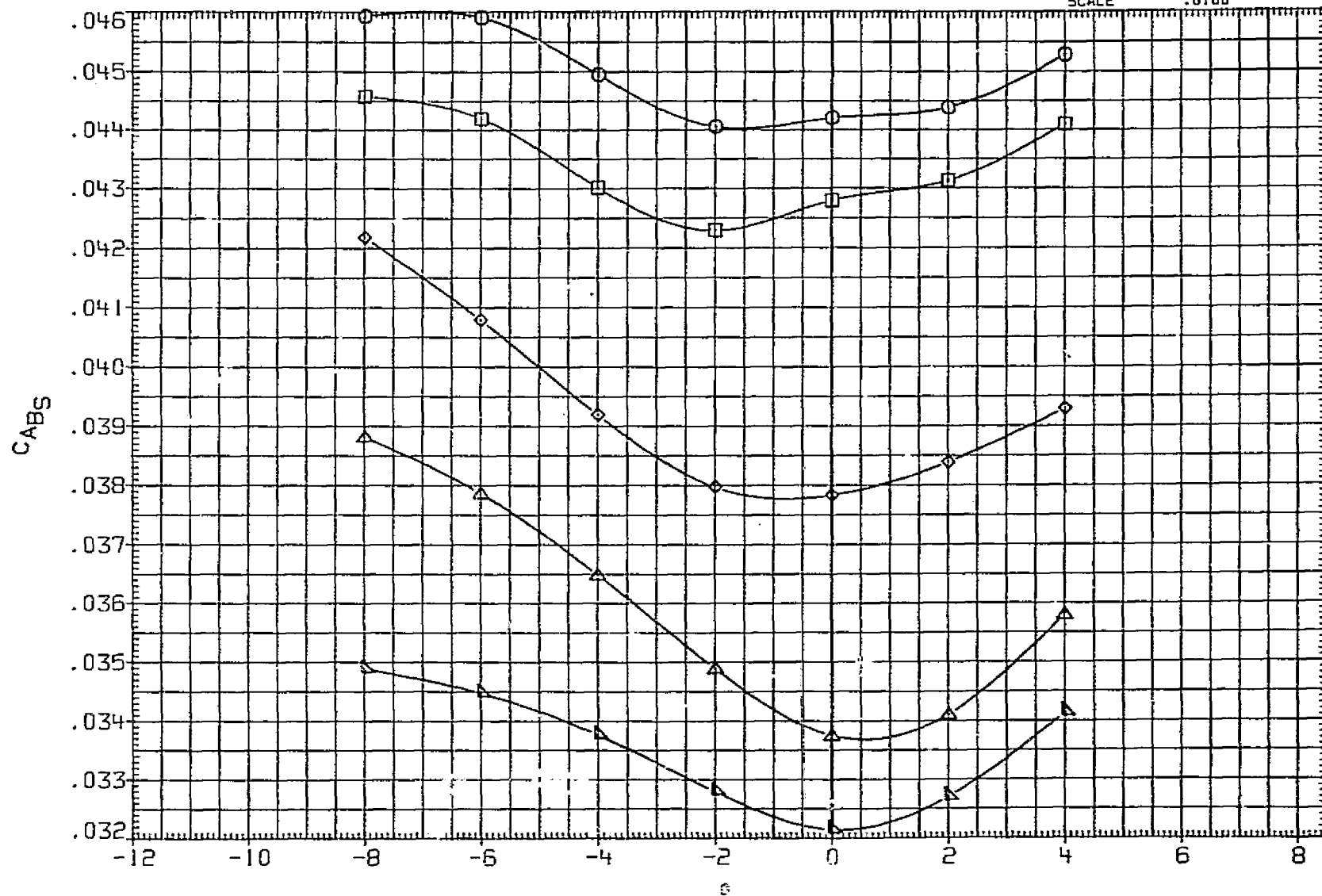


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	.976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

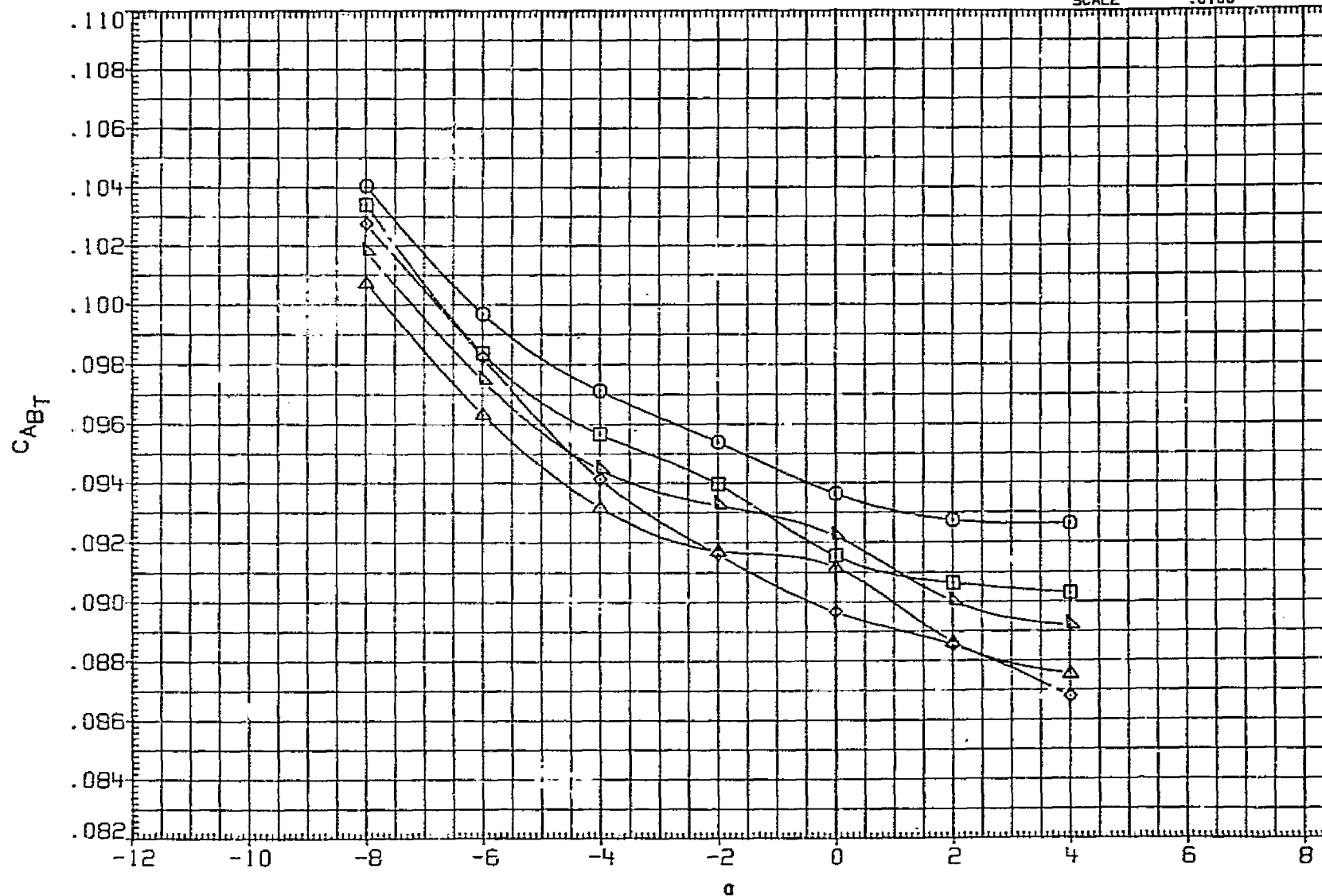


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	⊠	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

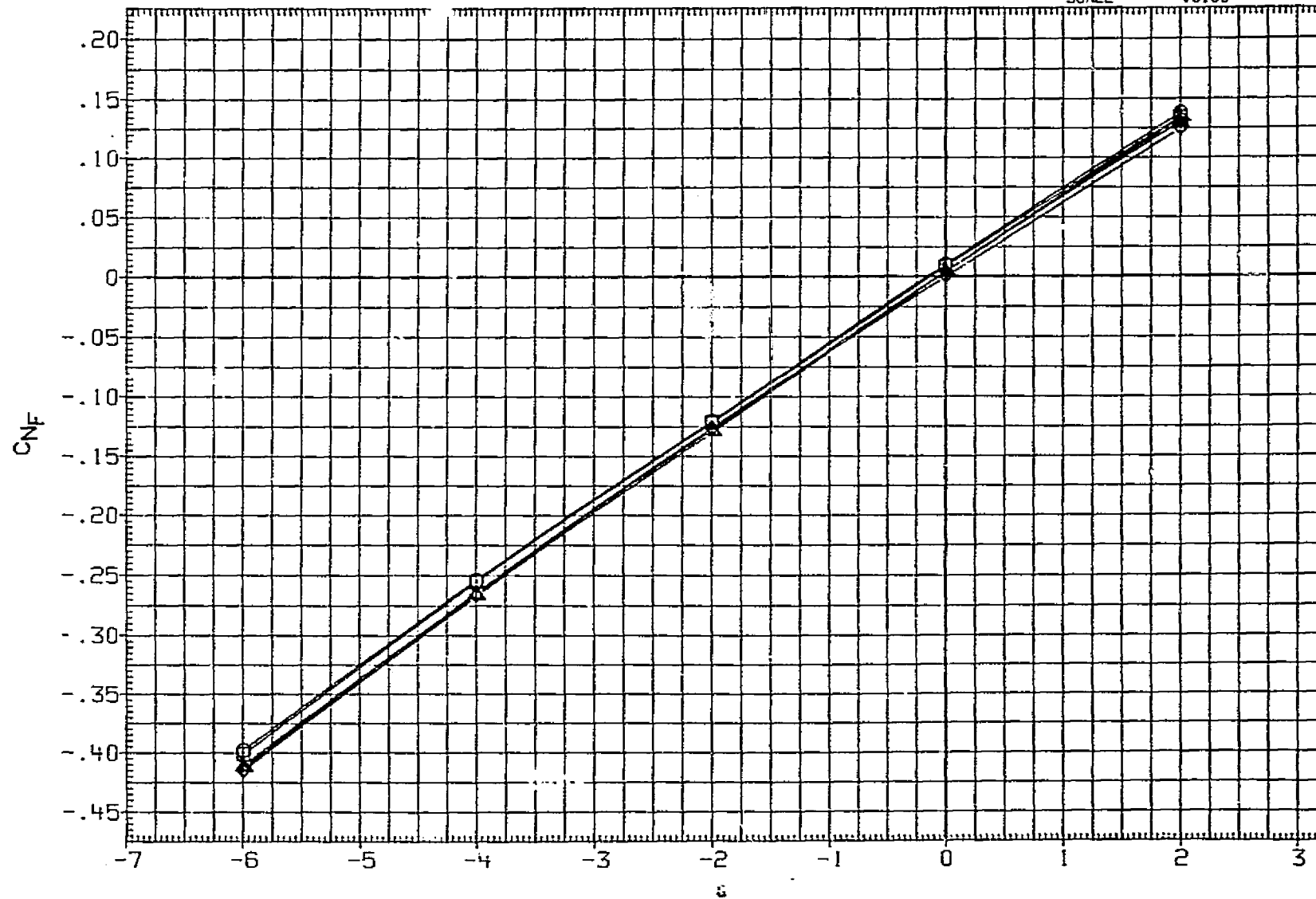


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2698.0000	50. FT.
MJJB33	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

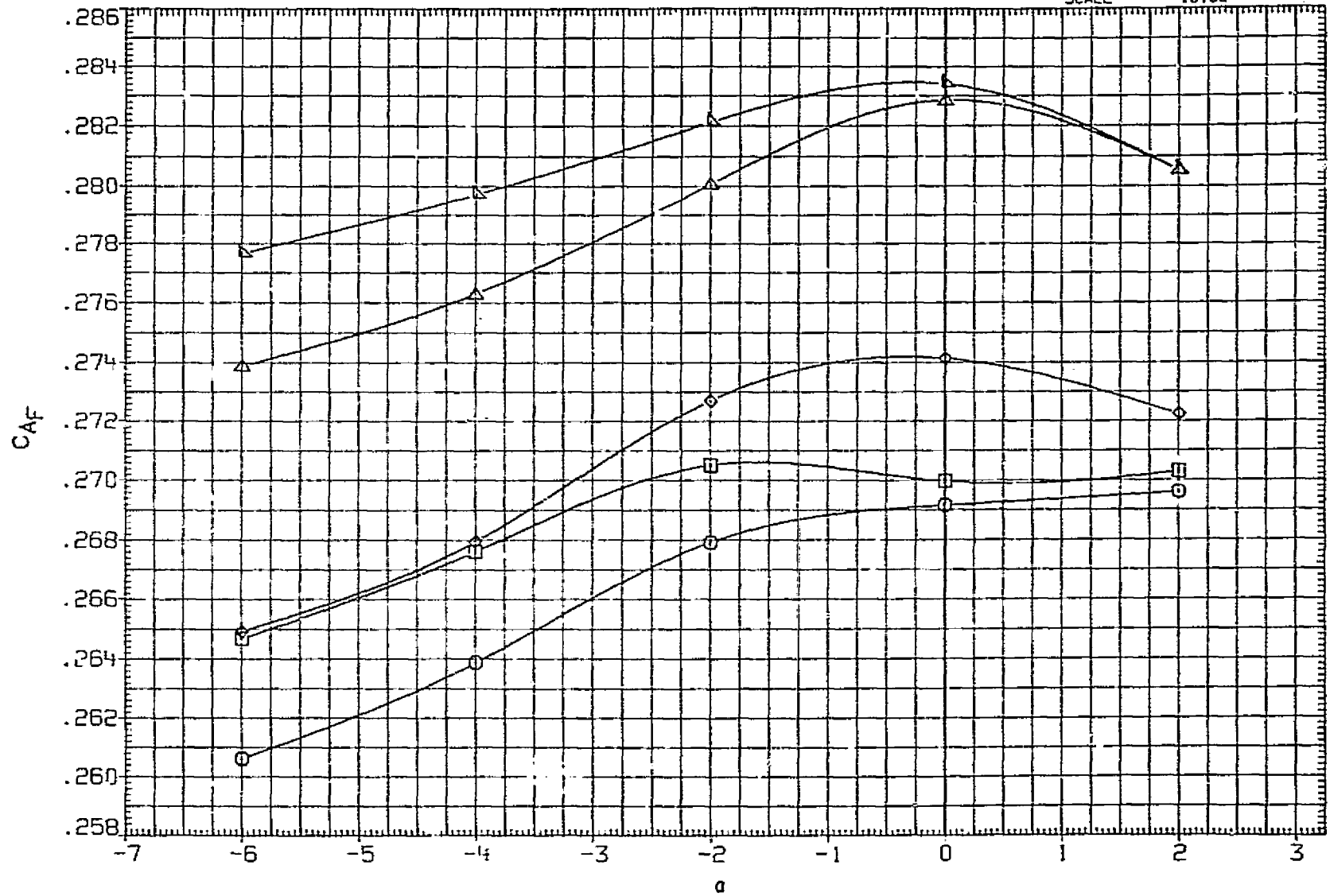


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJB33	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	△	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	◇	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

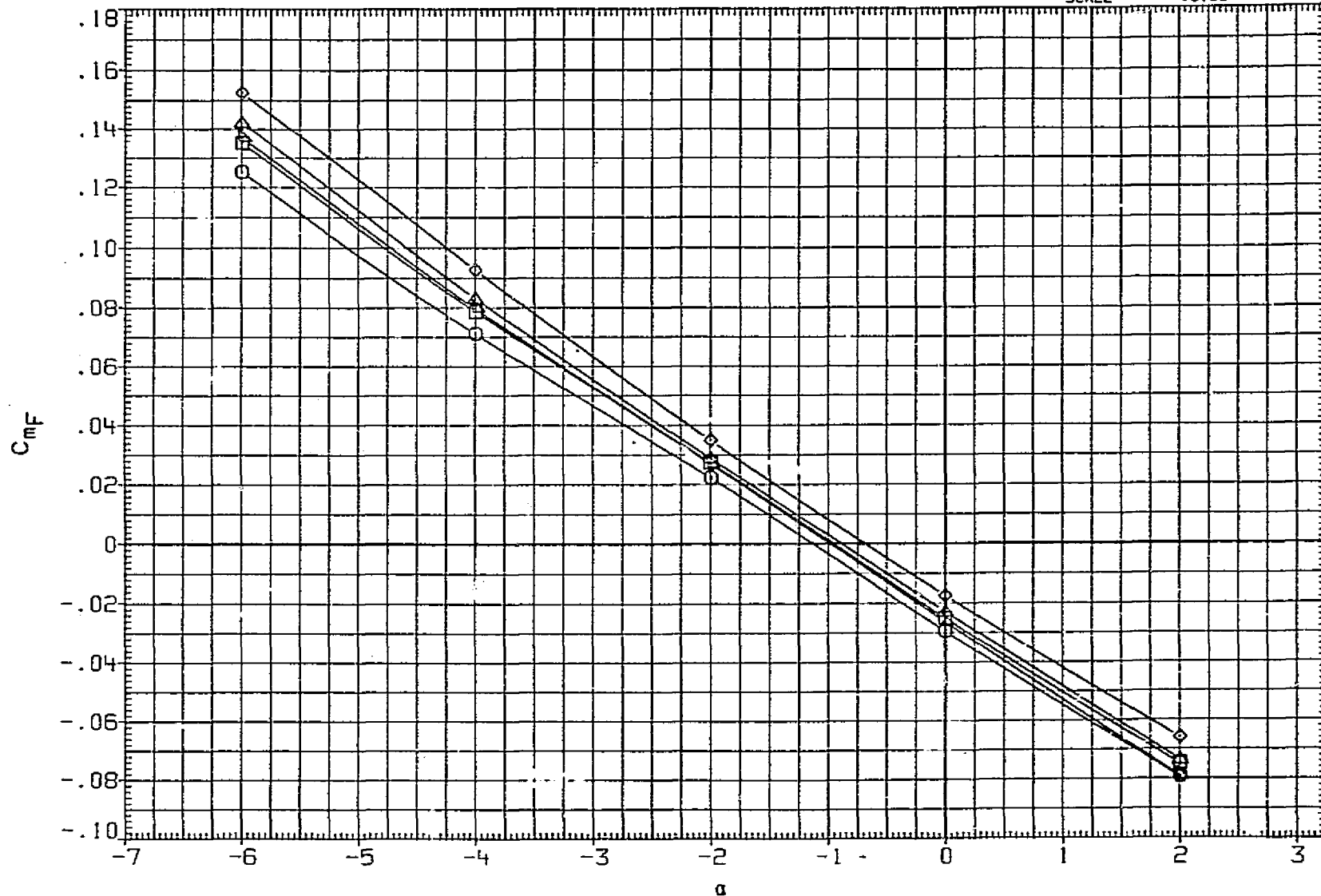


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SO.FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

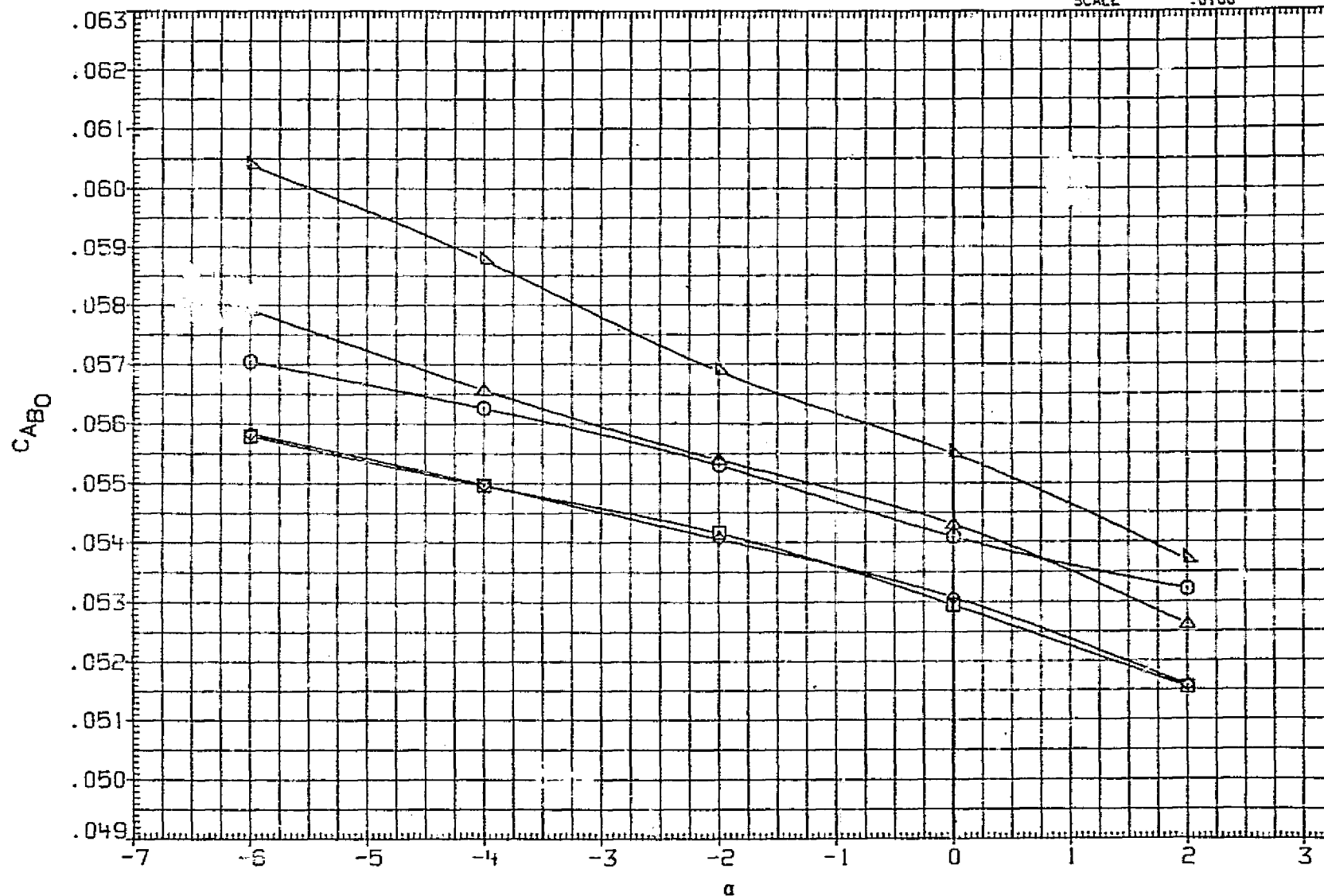


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	7.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

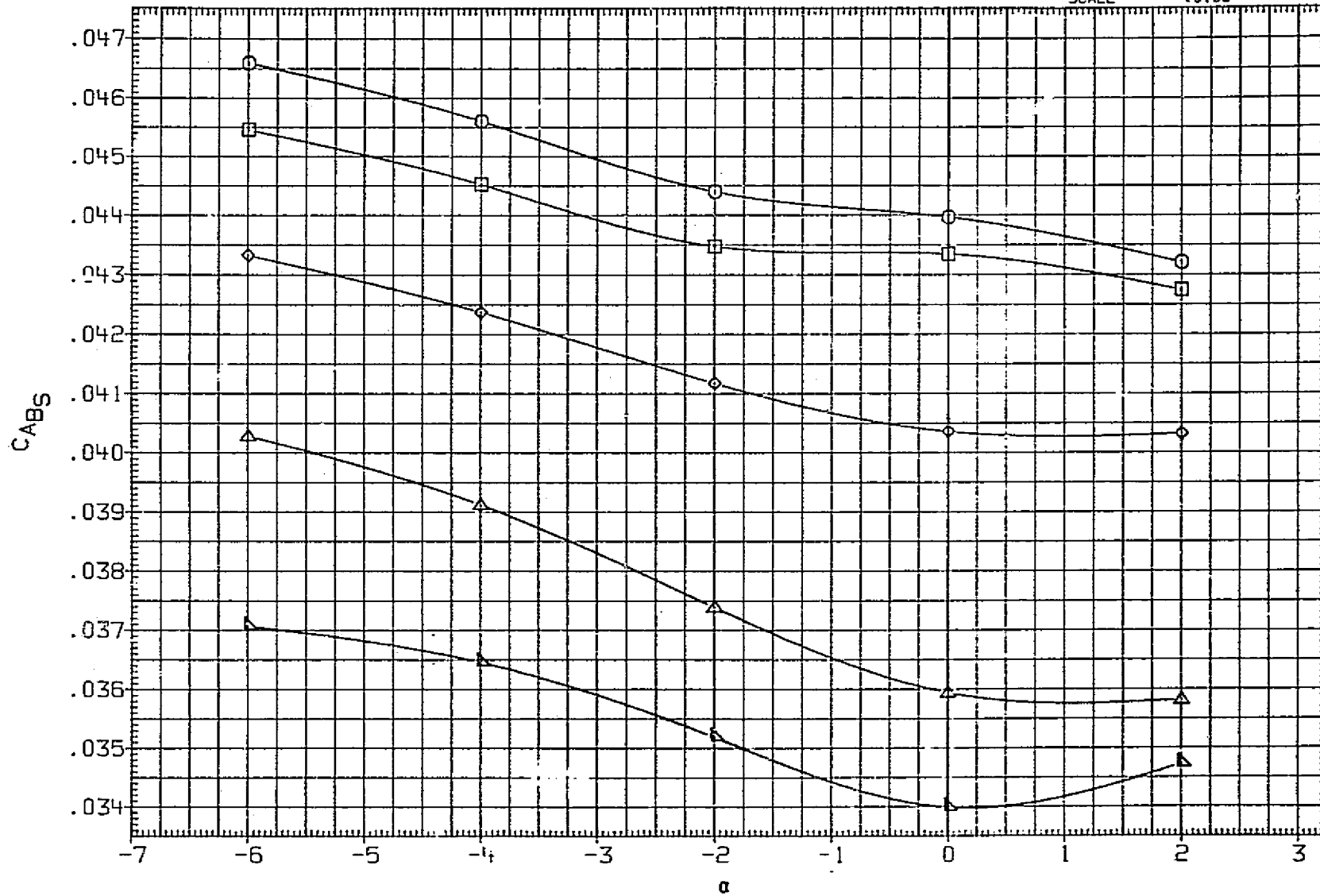


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF 2690.0000 SQ. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF 1290.3000 INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF 1290.3000 INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP 976.0000 IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

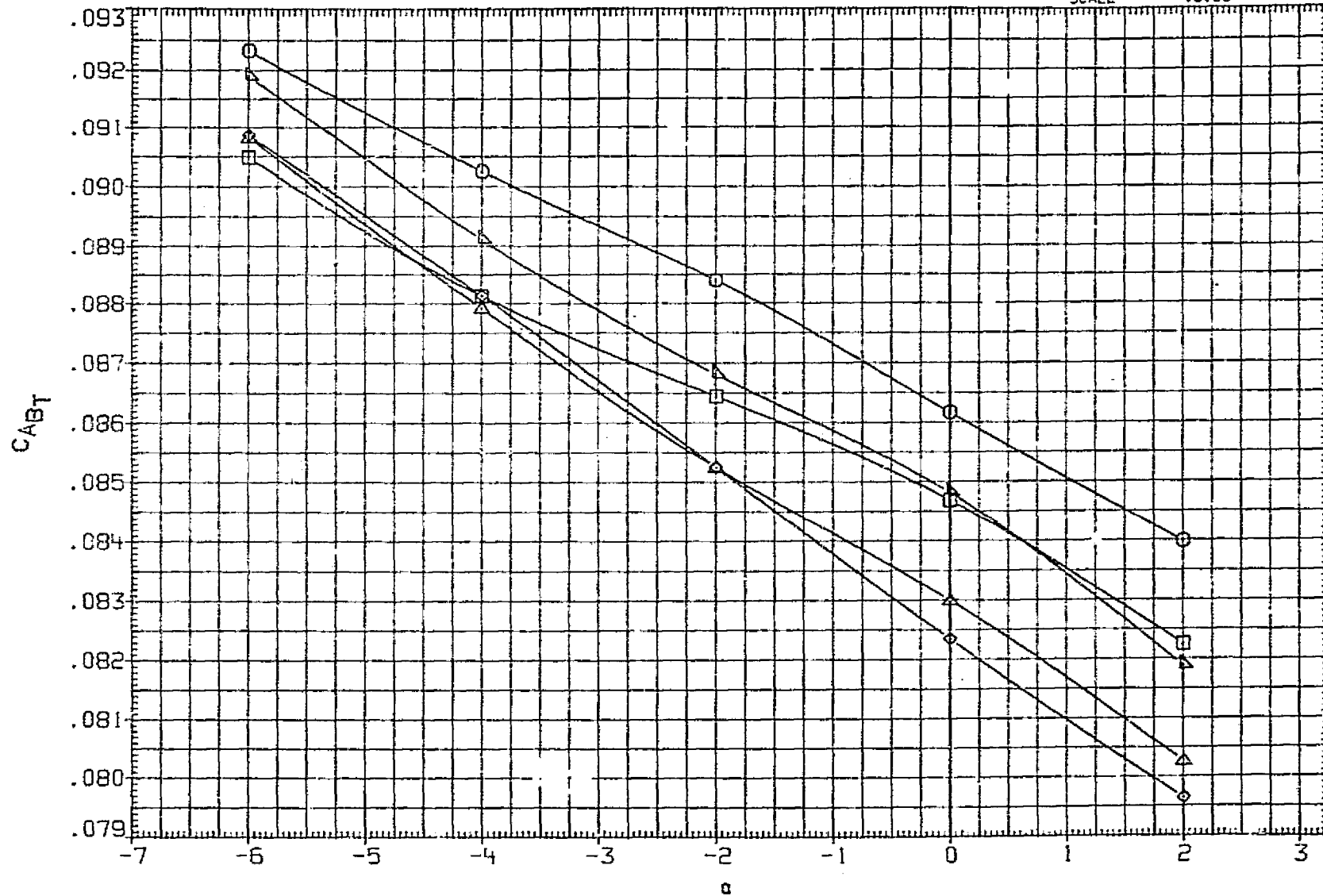


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0180	

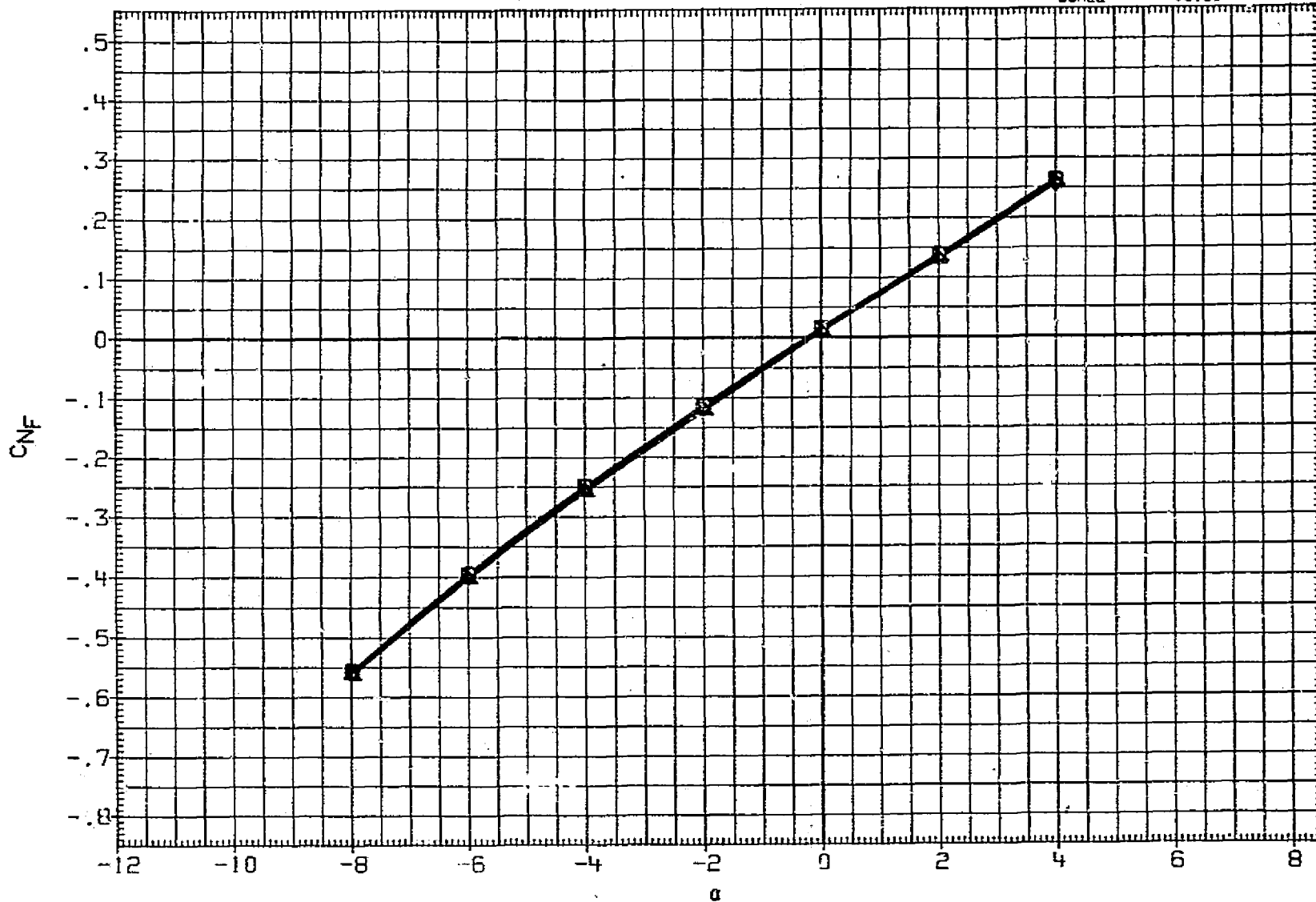


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ832	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ. FT.
MJJ833	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJ834	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJ835	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. X1
MJJ836	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. Y1
								ZMRP	400.0000	IN. Z1
								SCALE	.0100	

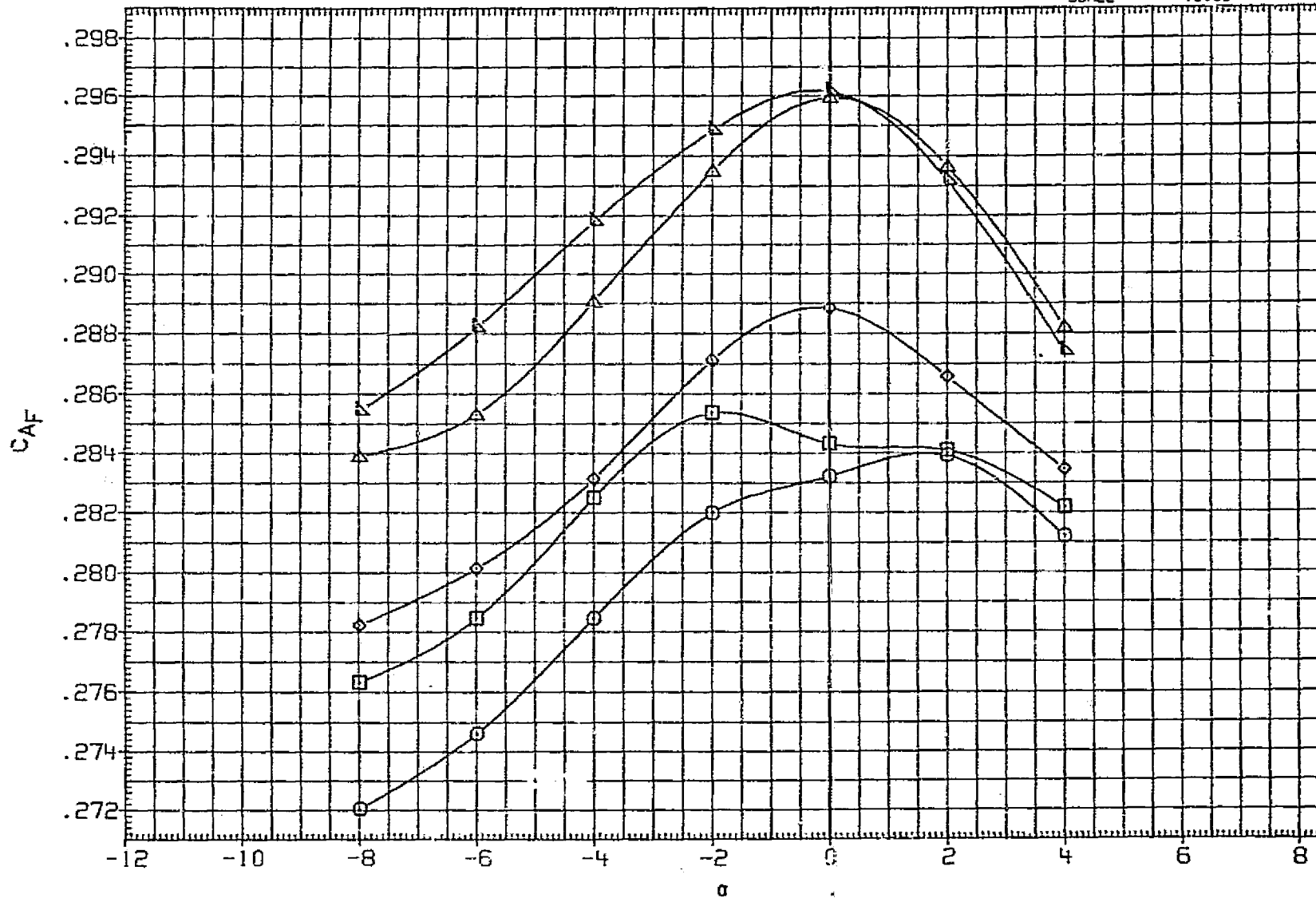


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ832	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2890.0000	SQ. FT.
MJJ833	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJ834	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJ835	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJ836	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

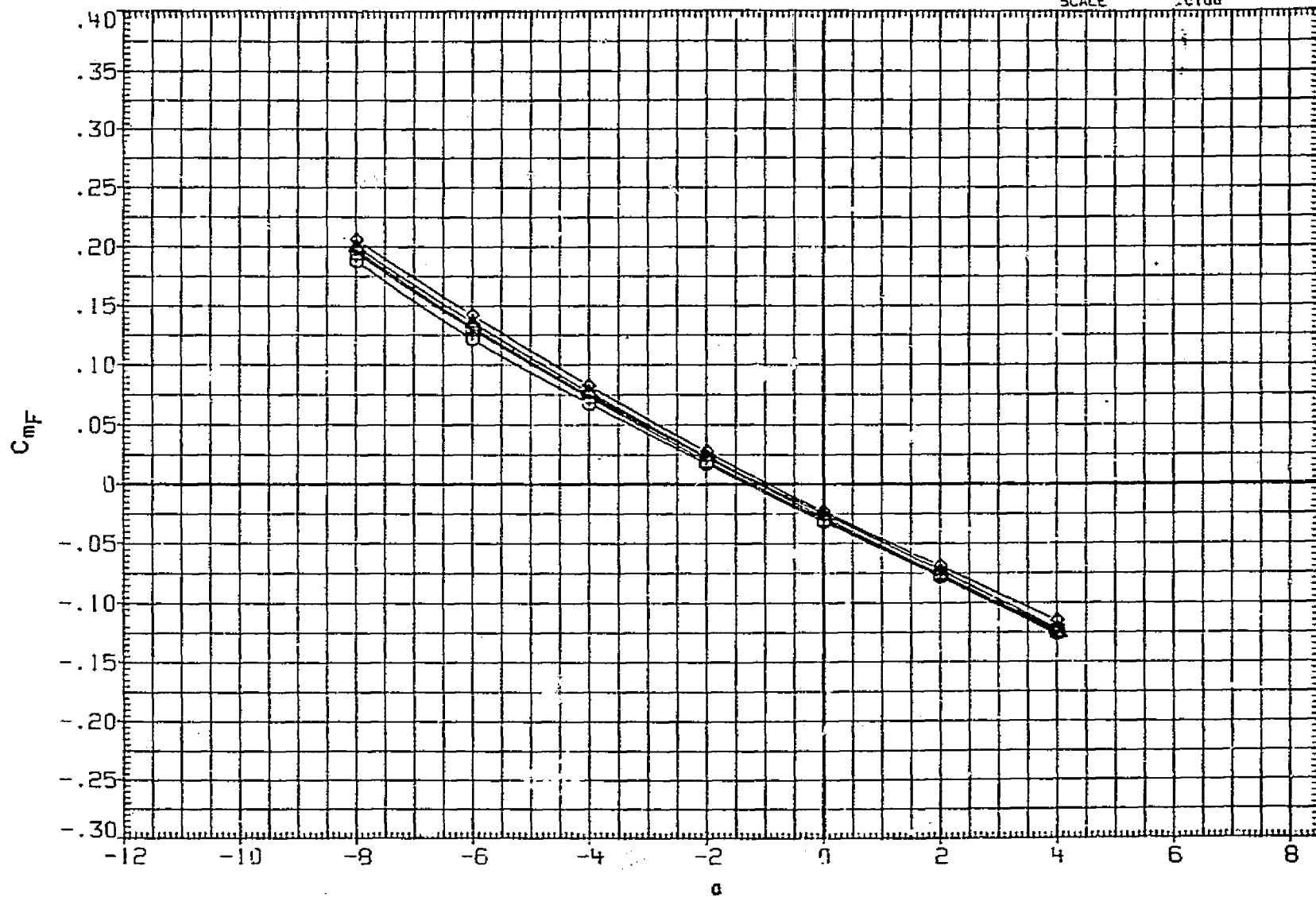


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ832	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJ833	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJ834	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJ835	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJ836	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

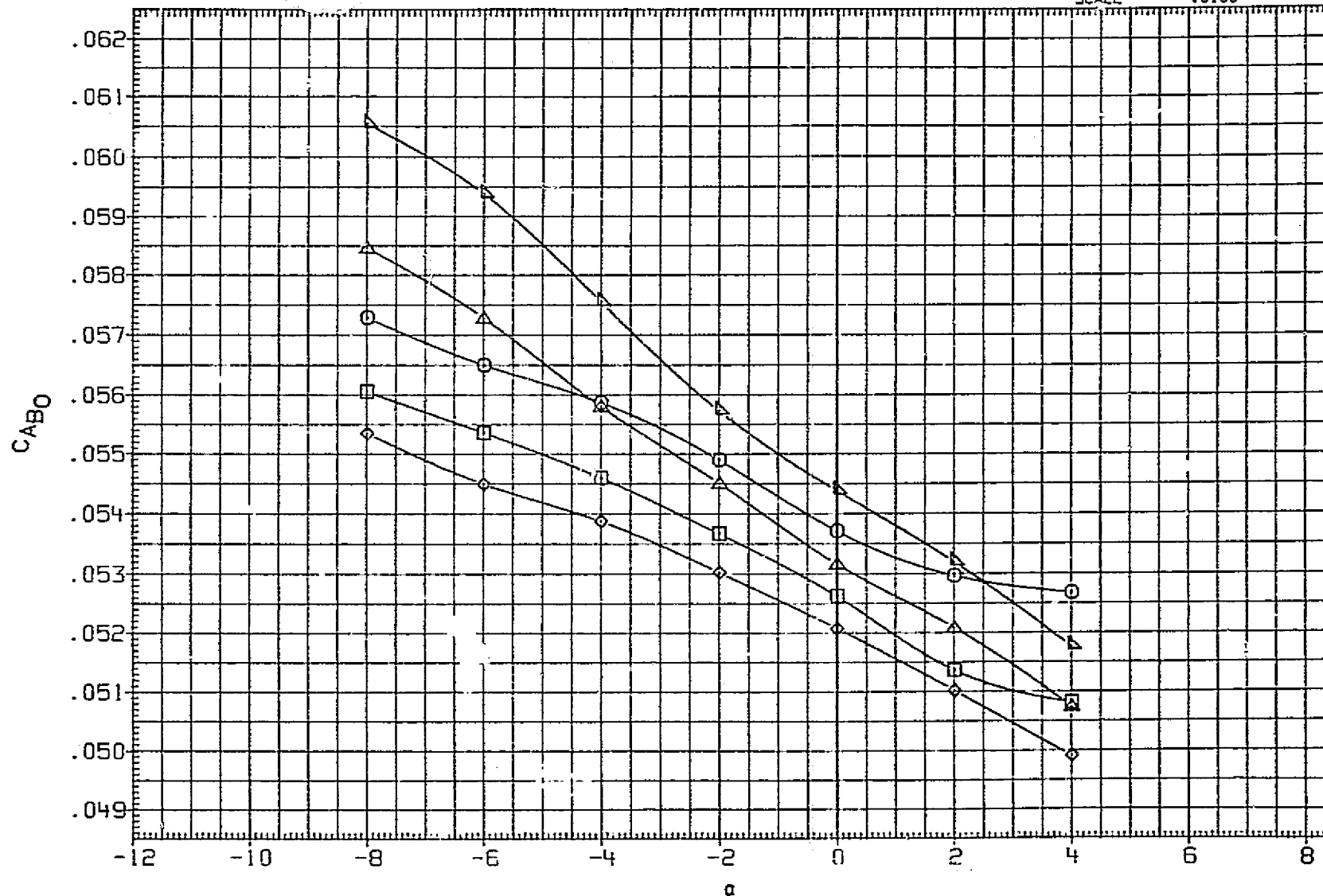


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

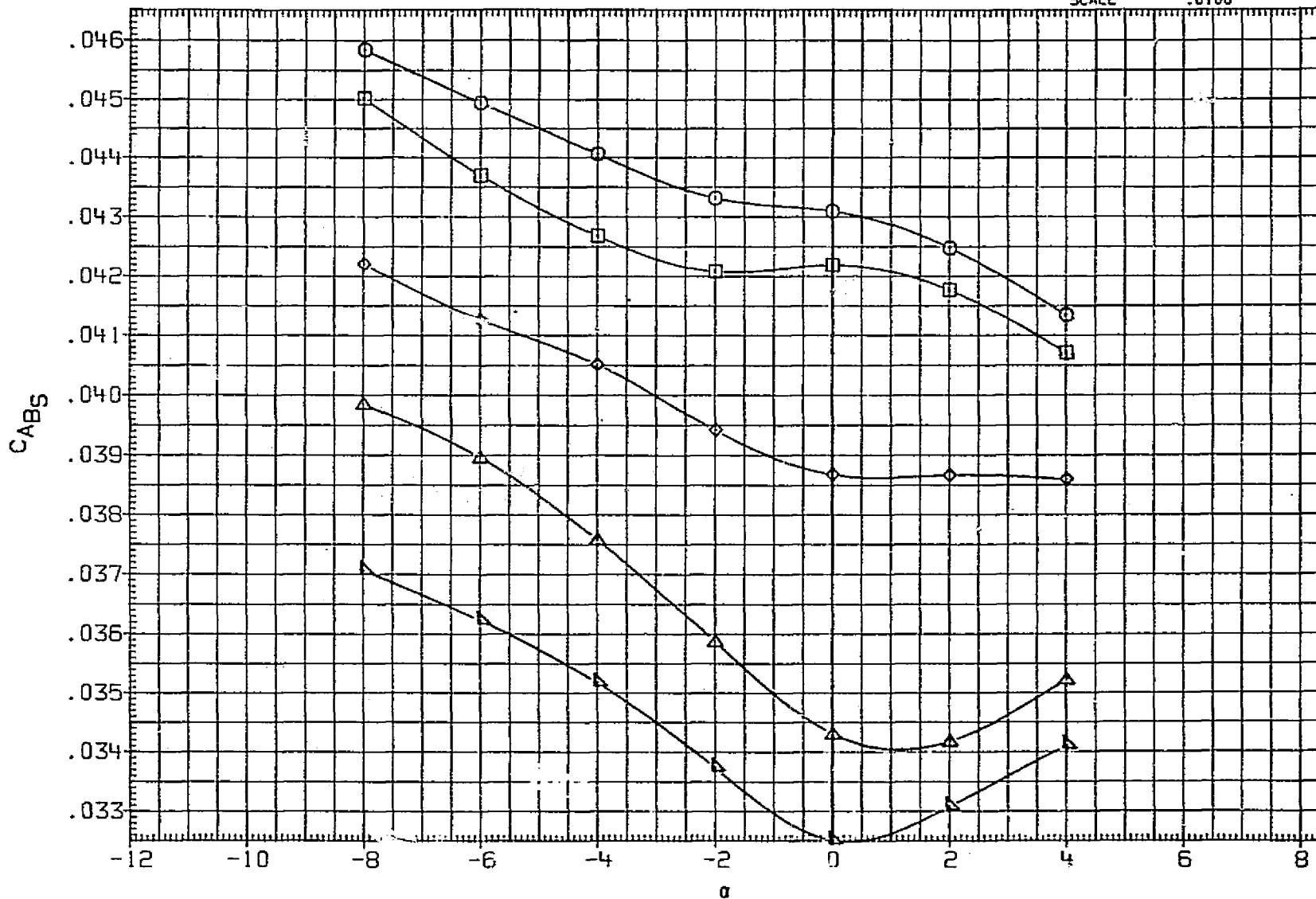


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.3000	IN. YZ
MJJB36	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YZ
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

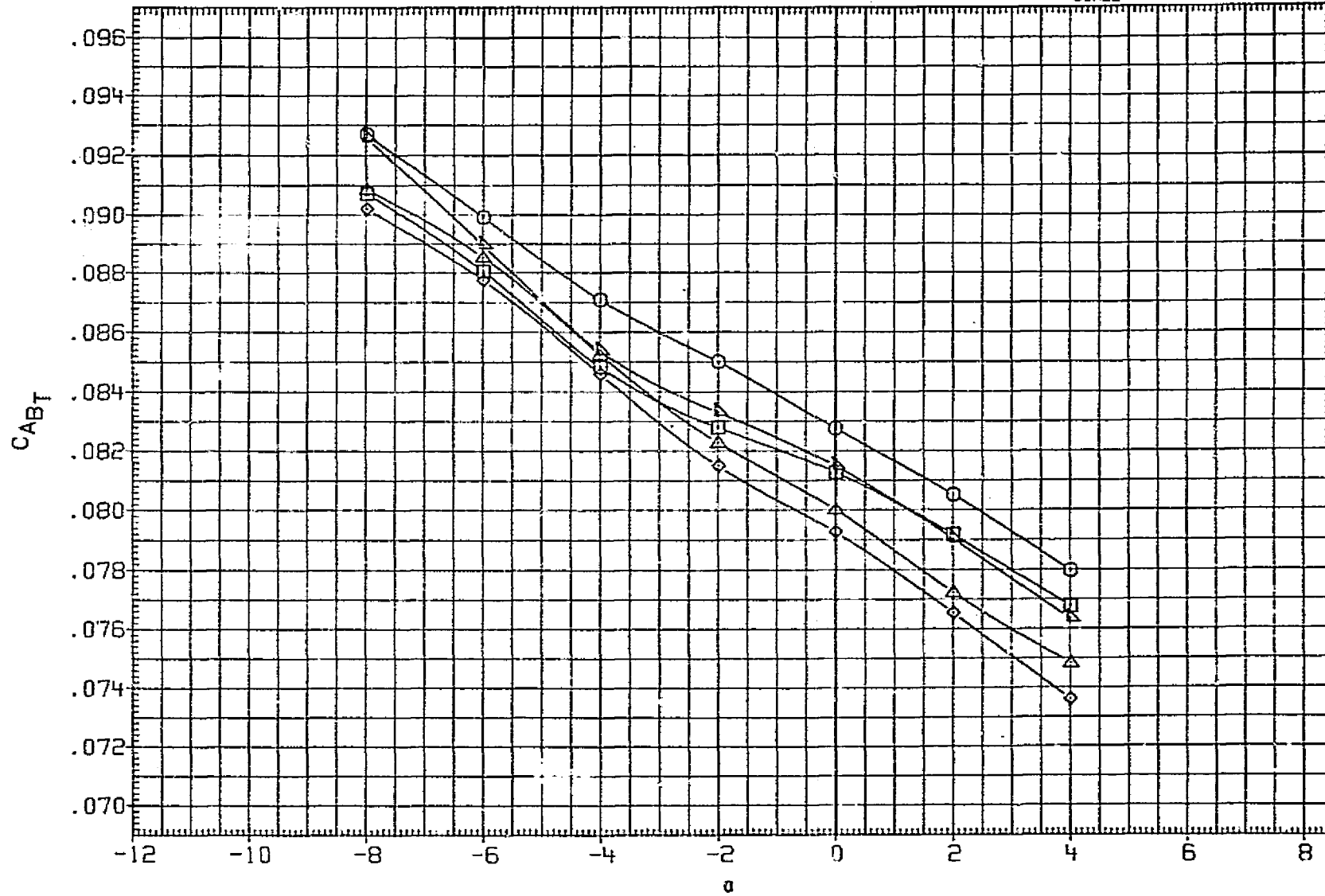


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50. FT.
MJJB38	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZI
								SCALE	.0100	

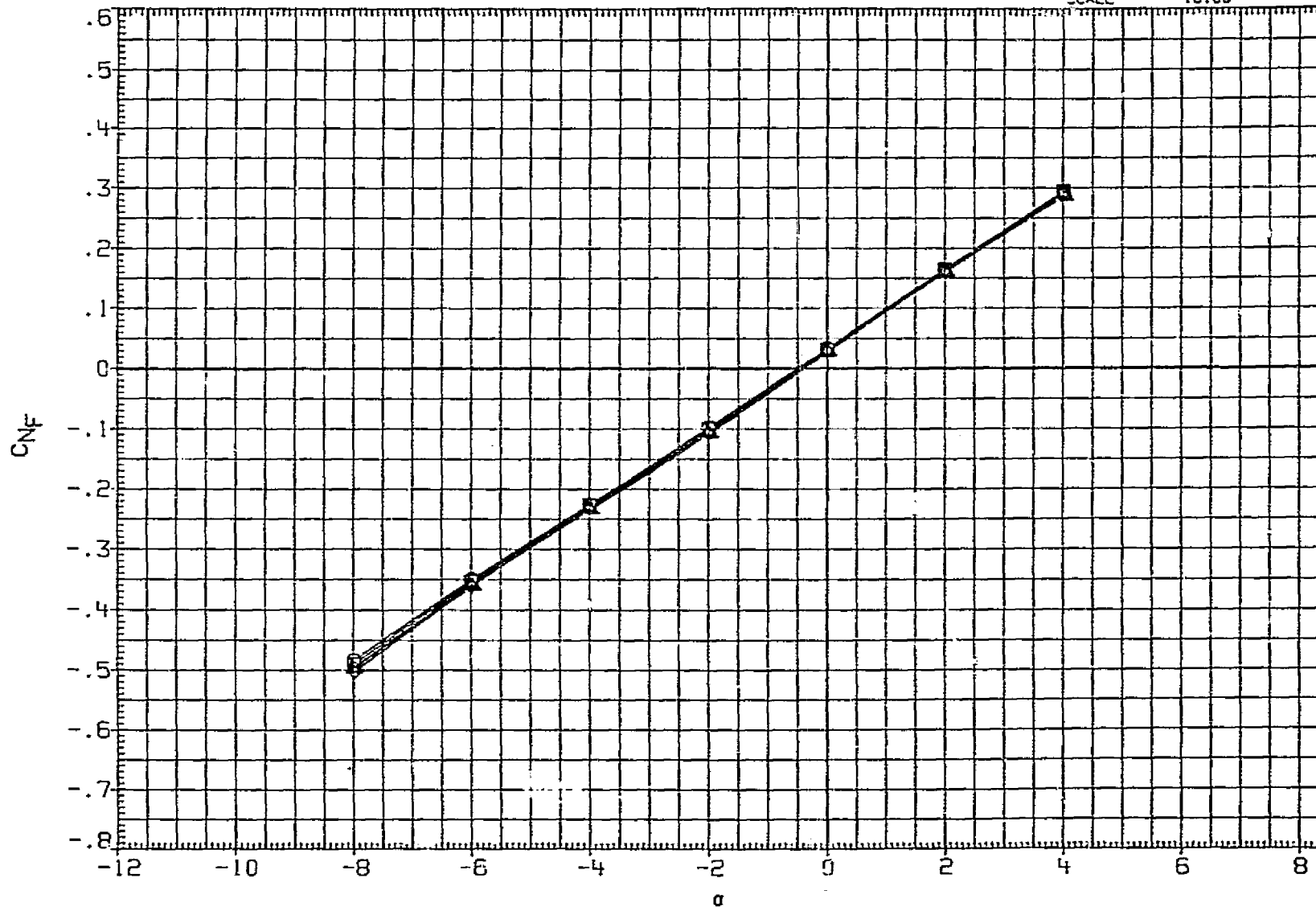


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	* REFERENCE INFORMATION		
HJJB37	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	SQ.FT.
HJJB38	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
HJJB39	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
HJJB40	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
HJJB41	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

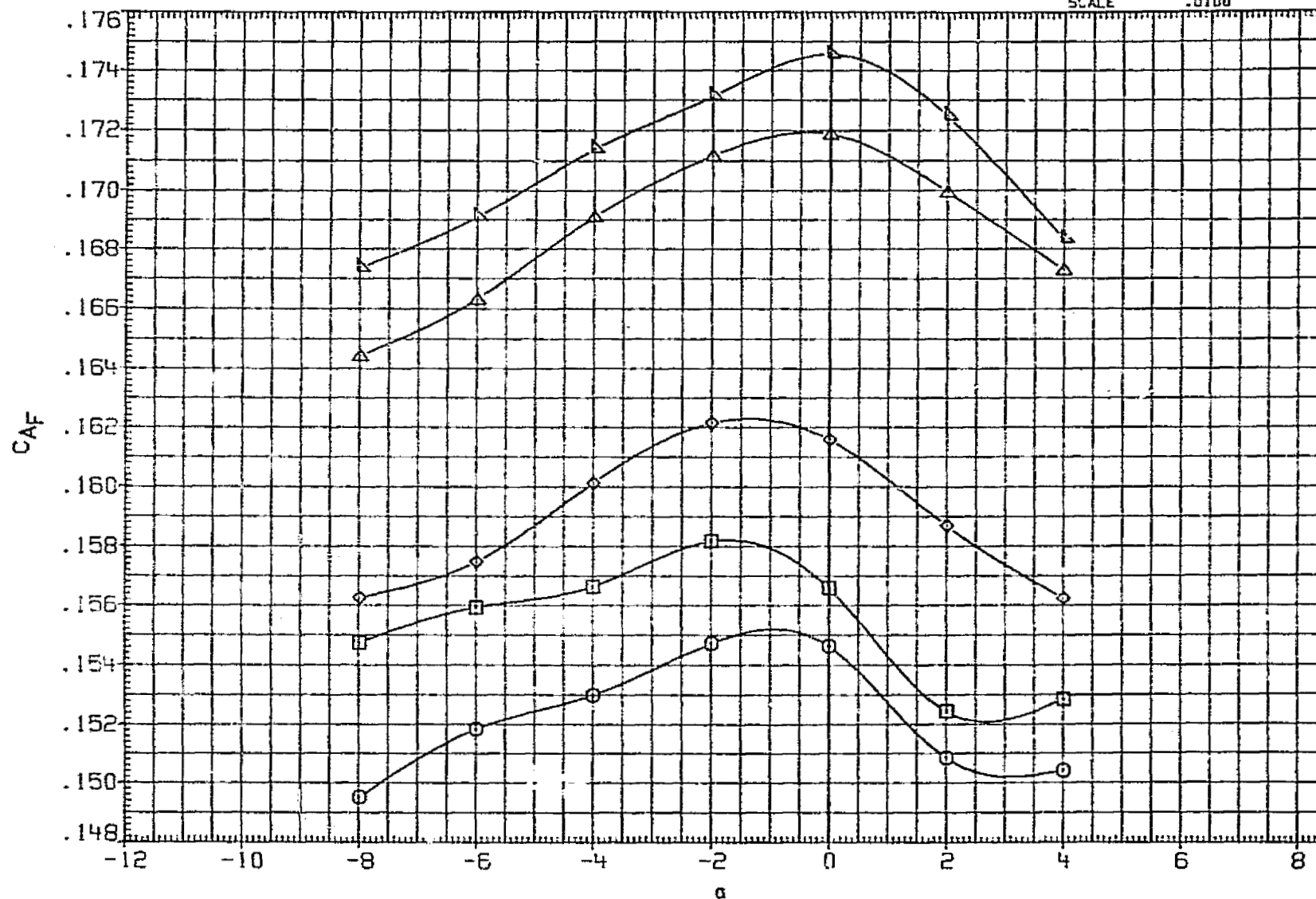


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50. FT.
MJJB38	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. Y?
								ZMRP	400.0000	IN. Z?
								SCALE	.0100	

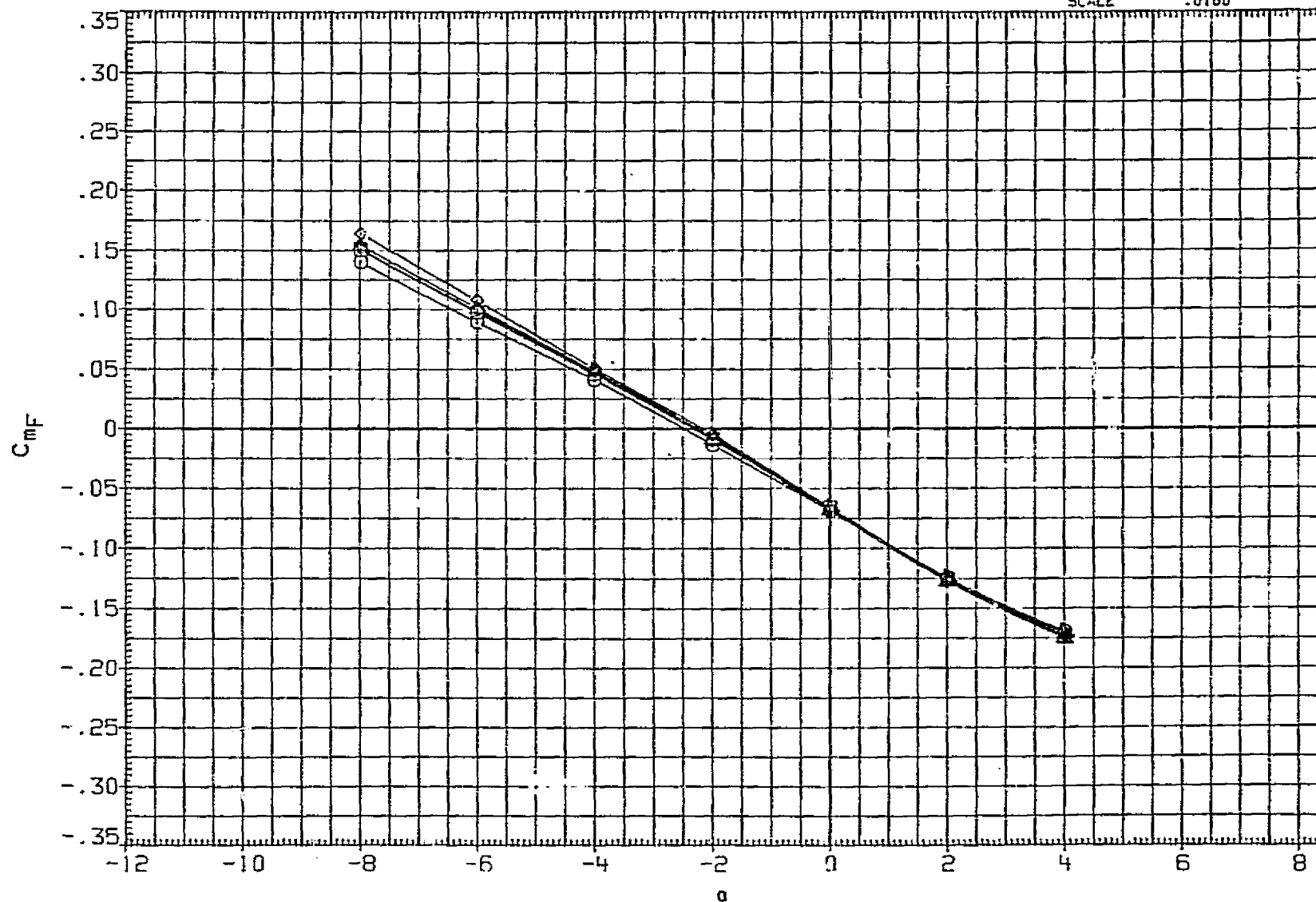


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50.FT.
MJJB38	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.3000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

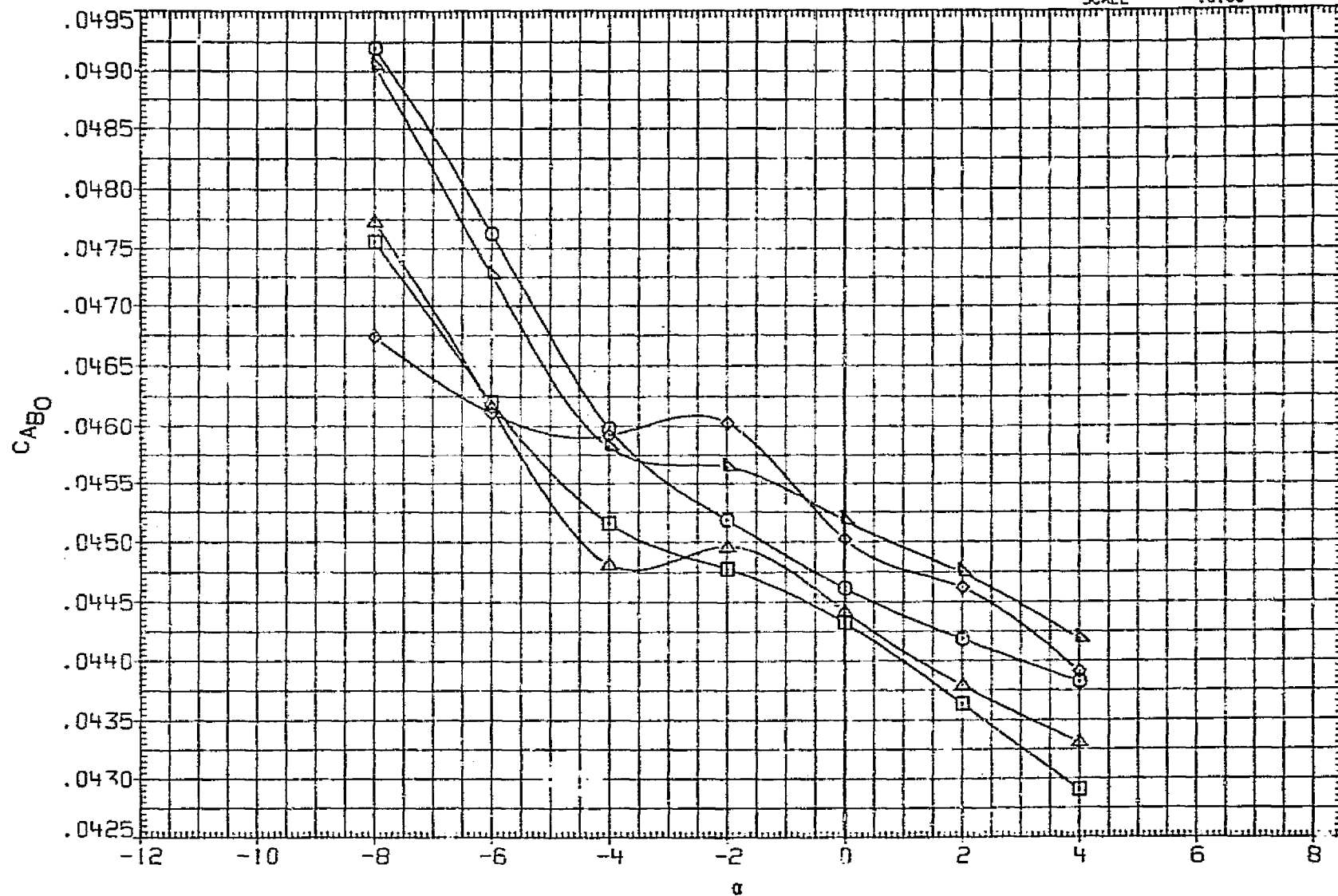


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50. FT.
MJJB38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	SREF	1290.3000	INCHES
MJJB40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

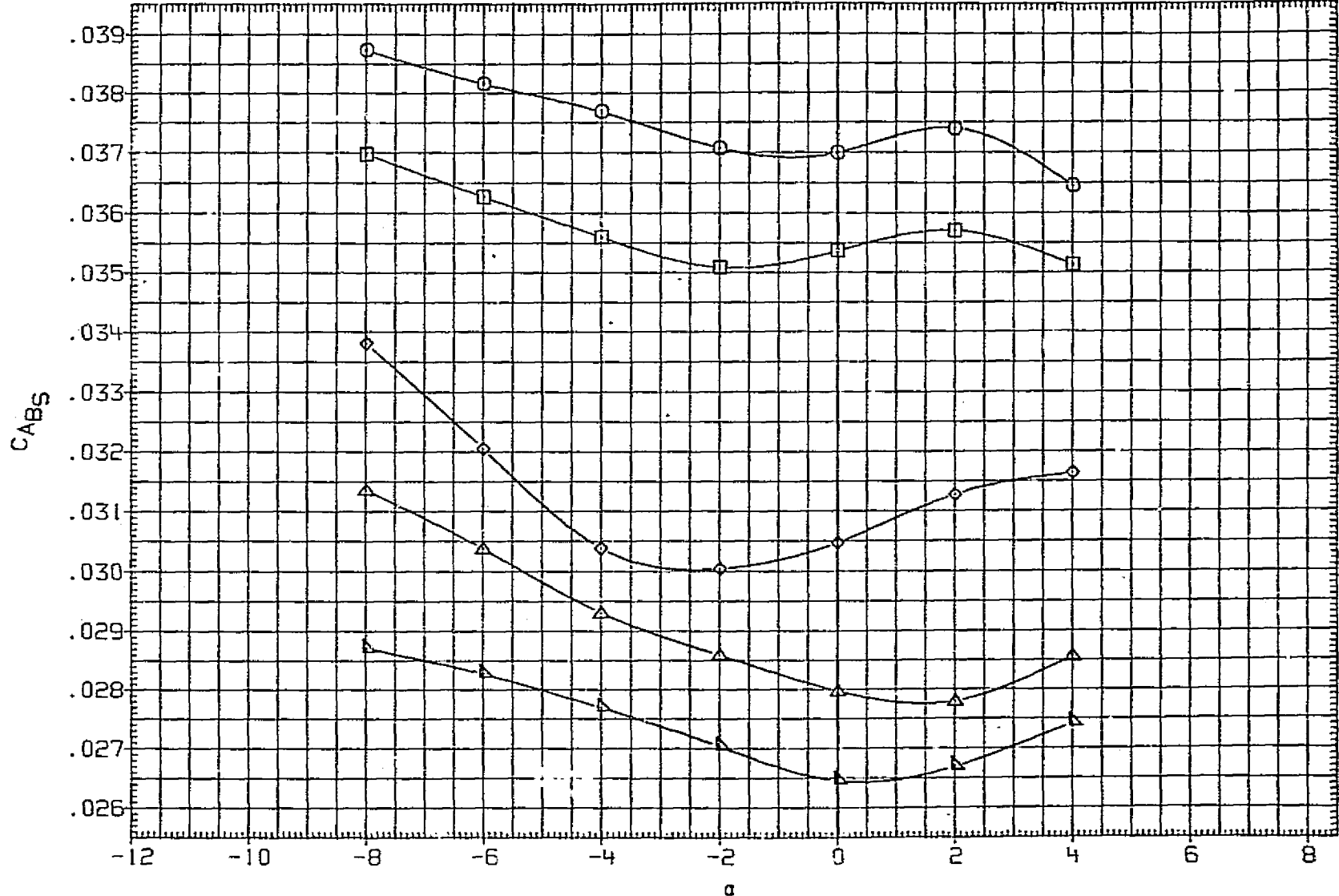


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ337	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	SQ.FT.
MJJ338	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJ339	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJ340	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJ341	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

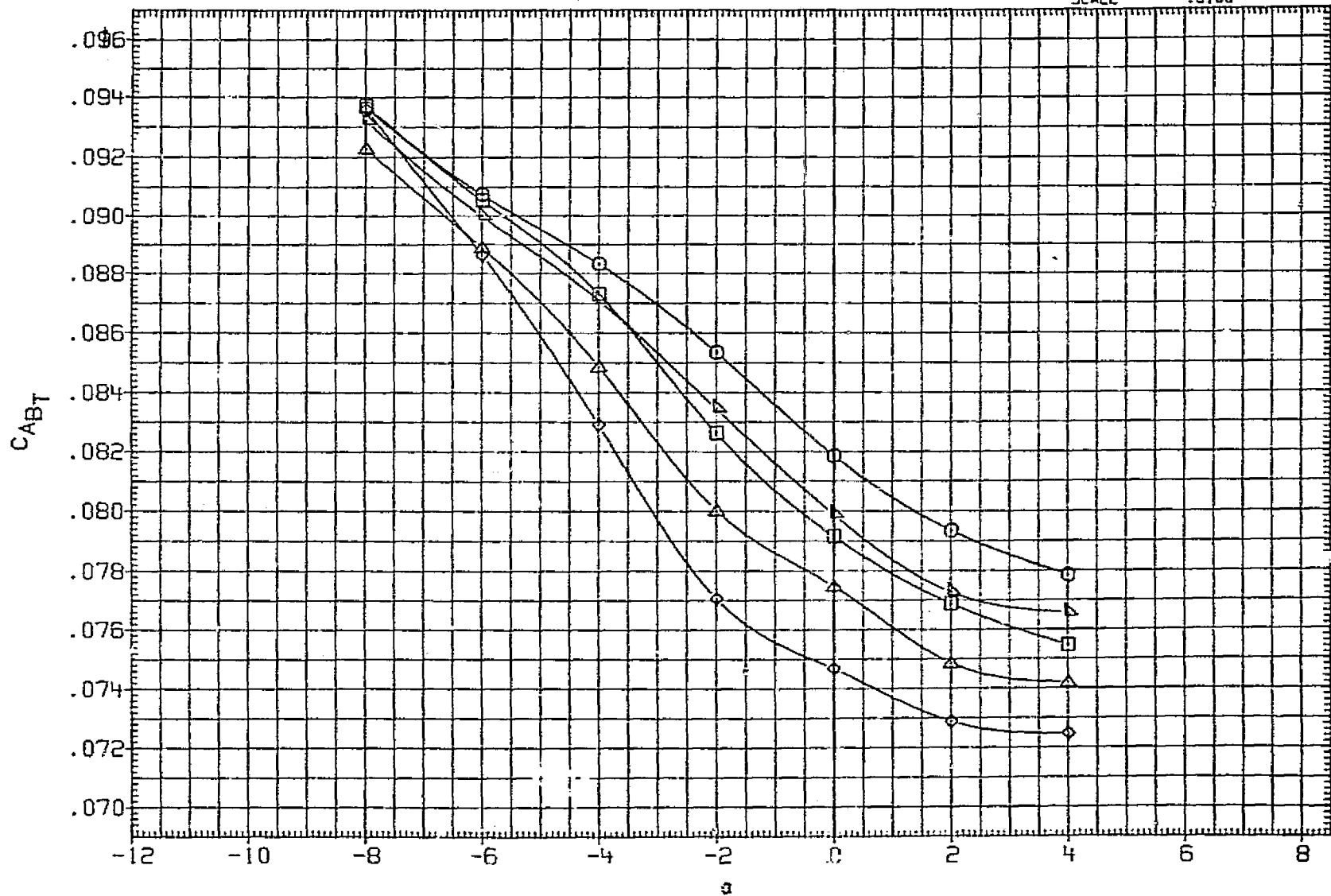


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB37	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	SQ.FT.
MJJB38	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

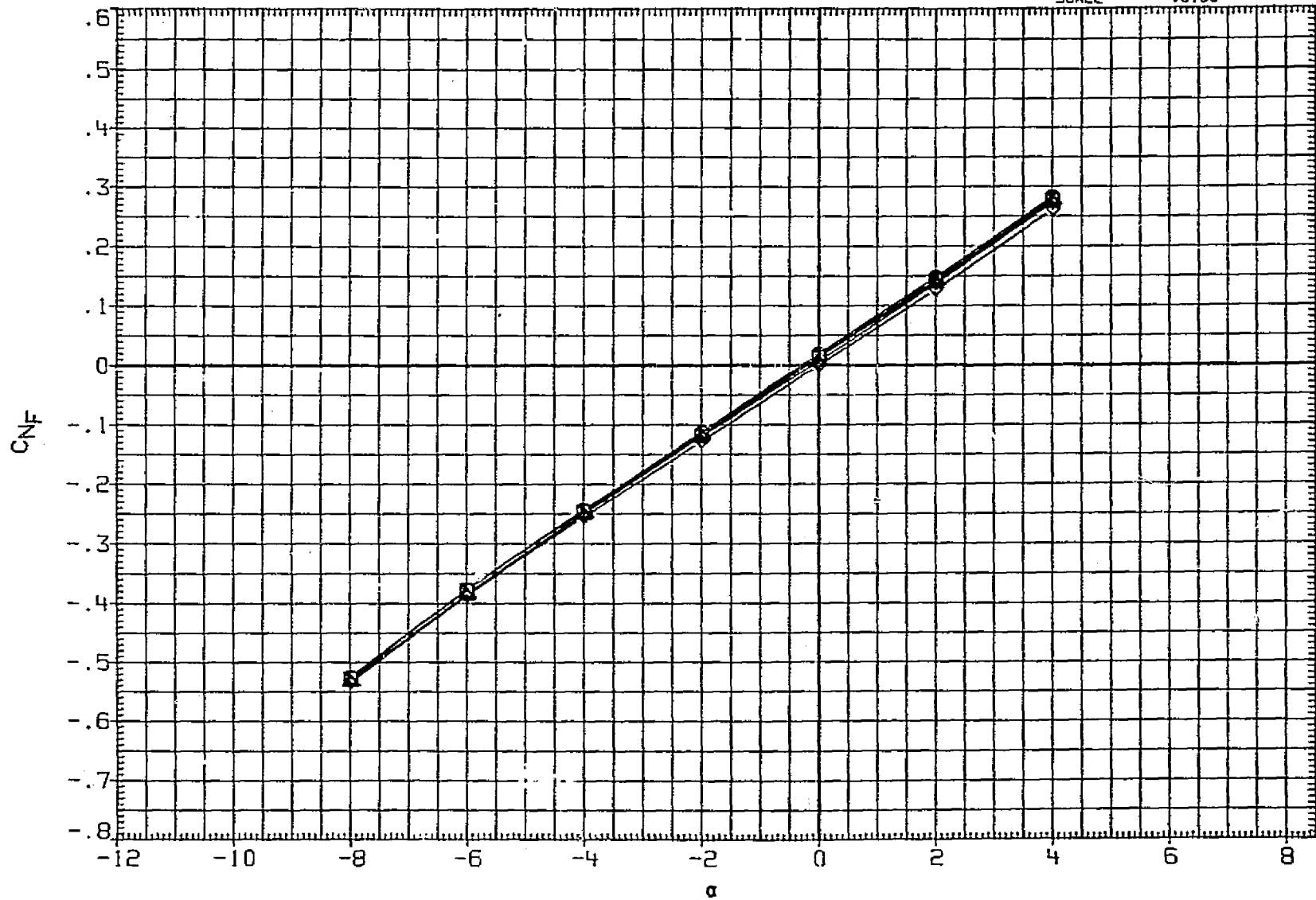


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB37	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000 SQ.FT.
MJJB38	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000 INCHES
MJJB39	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000 INCHES
MJJB40	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000 IN. XT
MJJB41	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

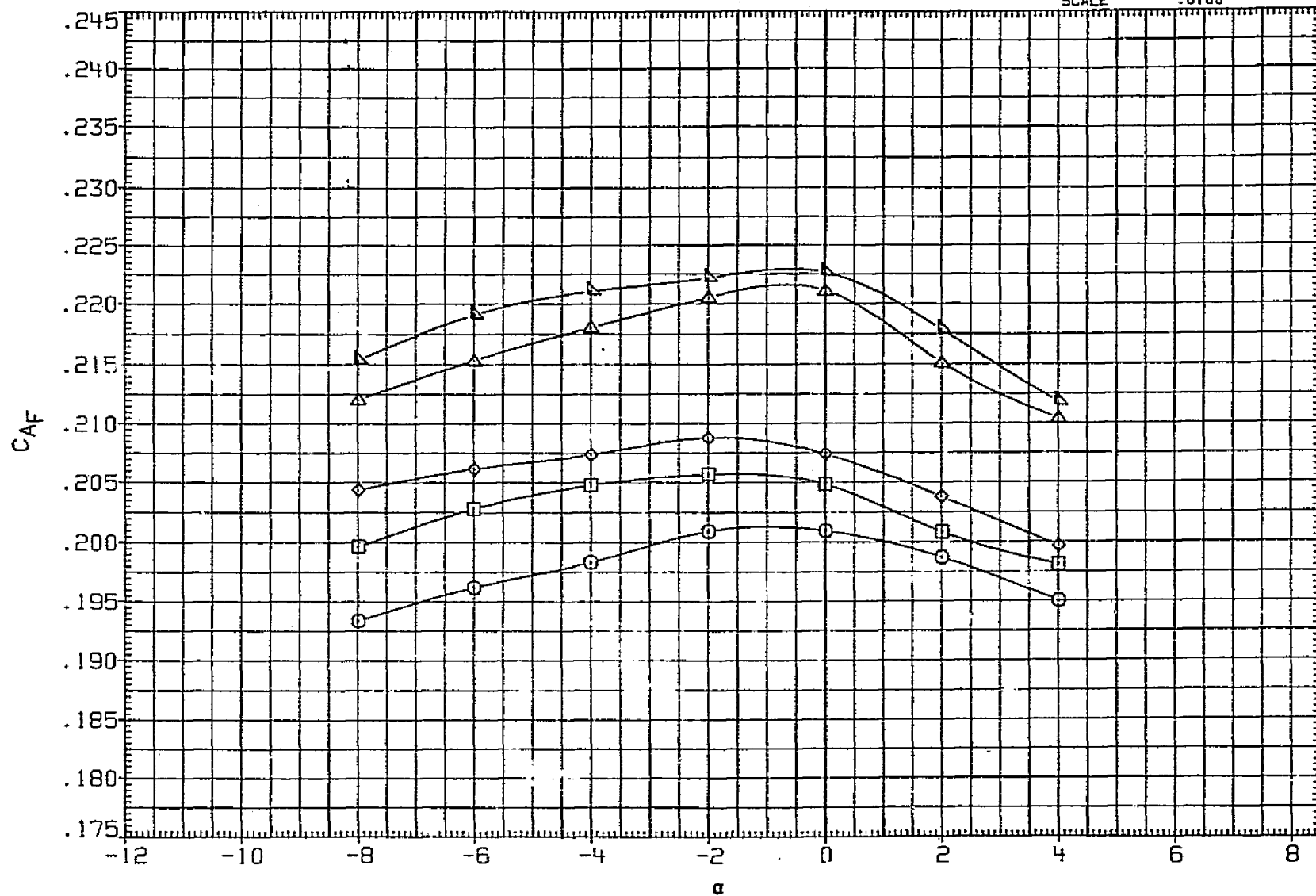


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50. FT.
MJJB38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

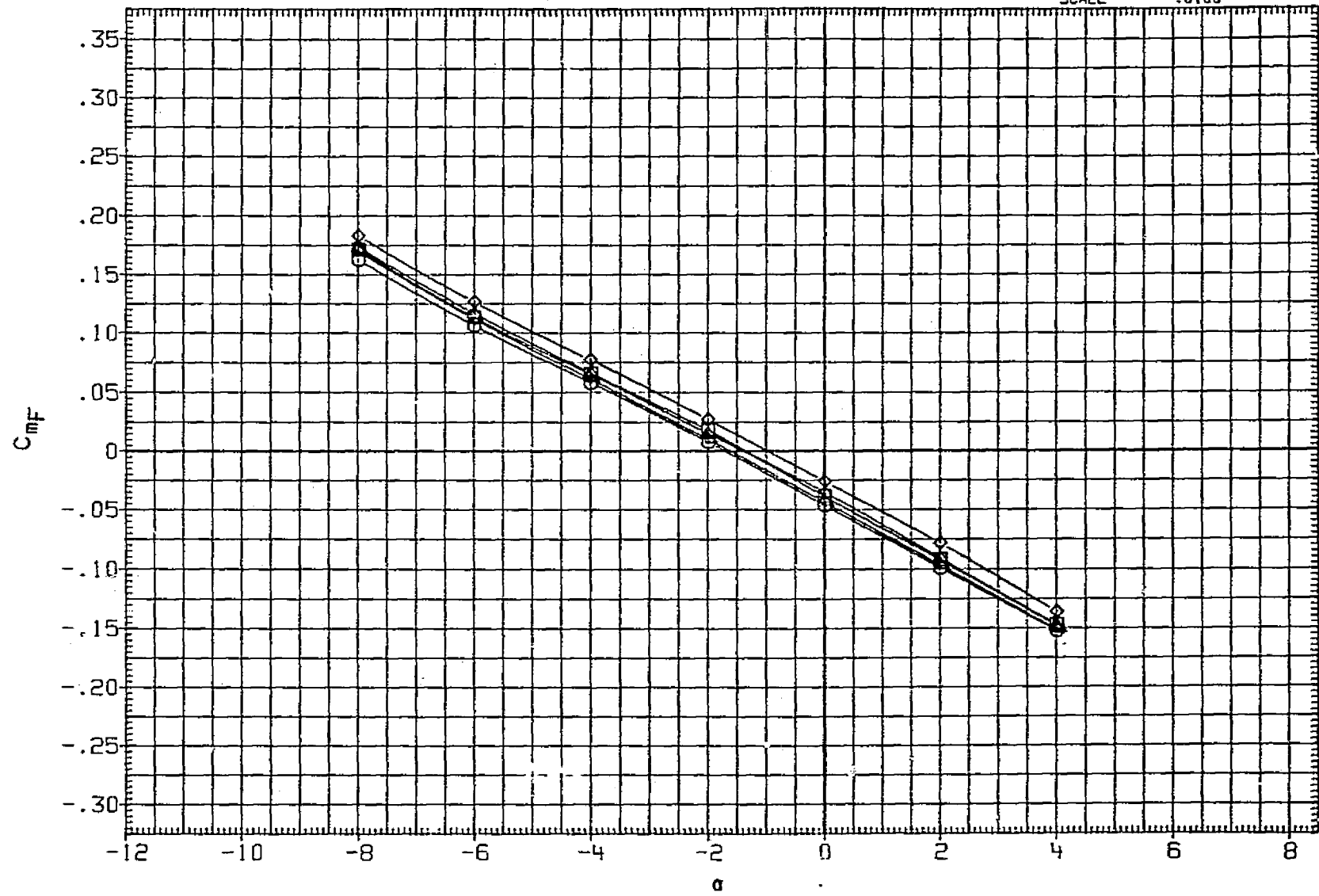


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50. FT.
MJJB38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

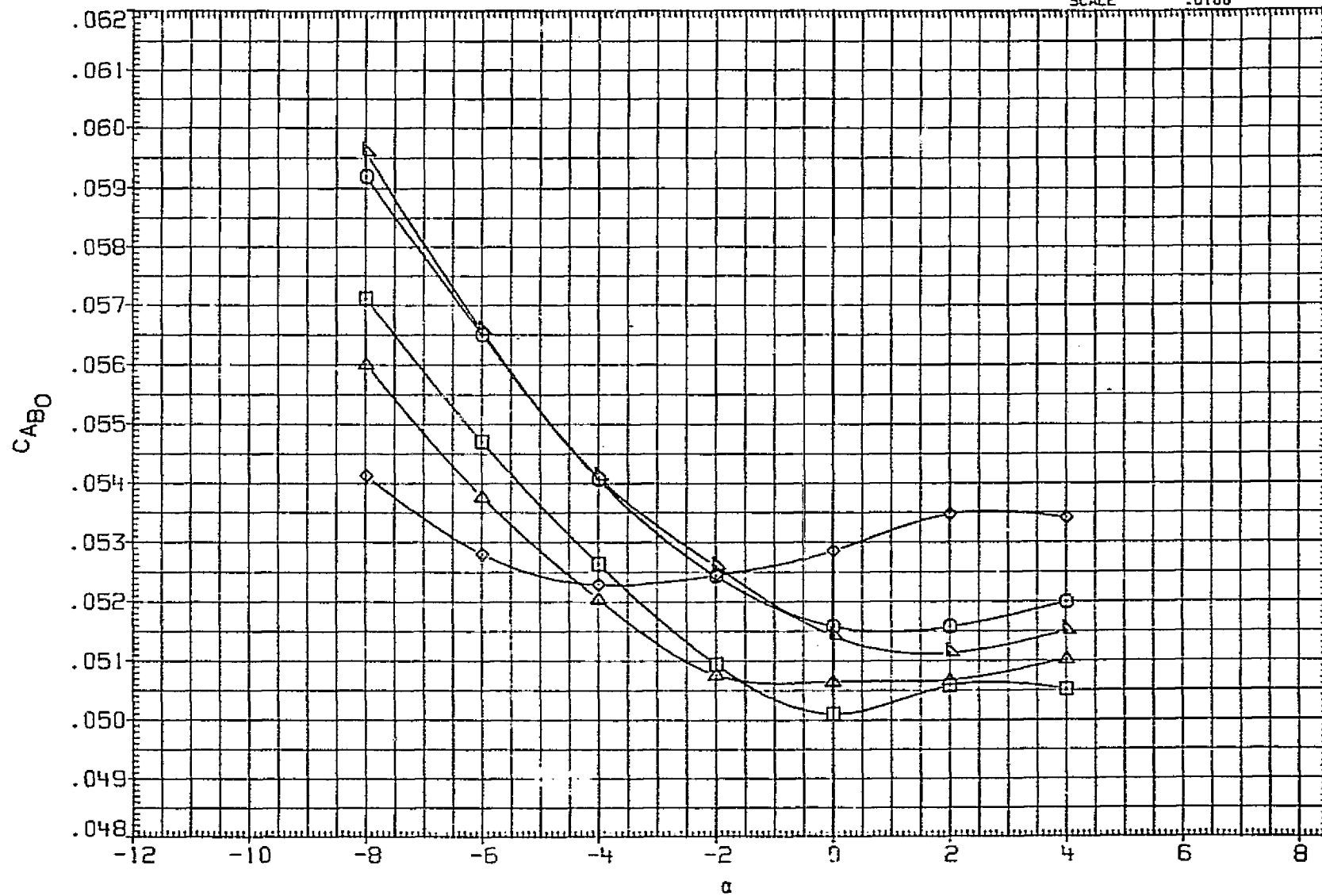


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJ837	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000 SO. FT.
MJJ838	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000 INCHES
MJJ839	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000 INCHES
MJJ840	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000 IN. XT
MJJ841	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

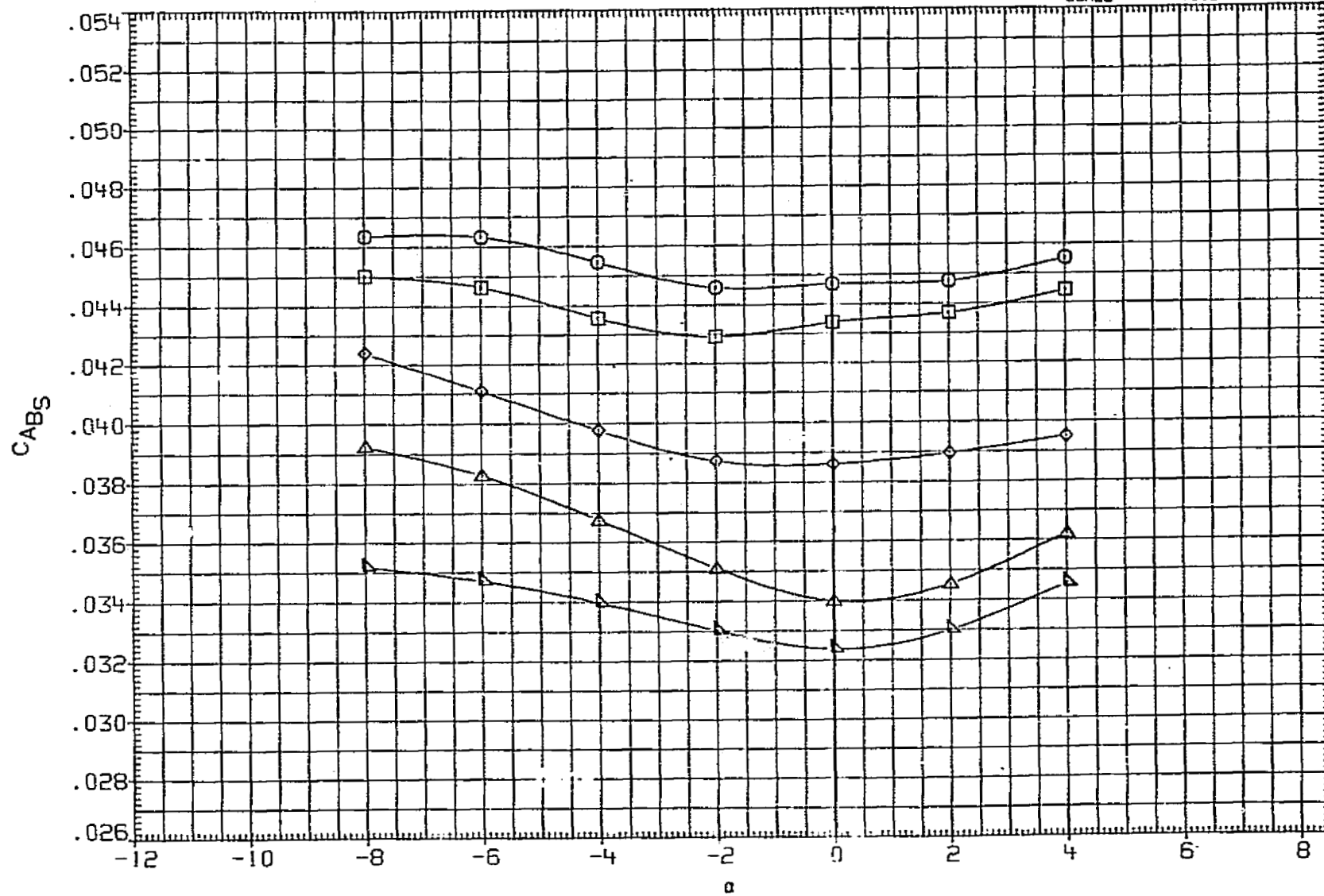


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50. FT.
MJJB38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

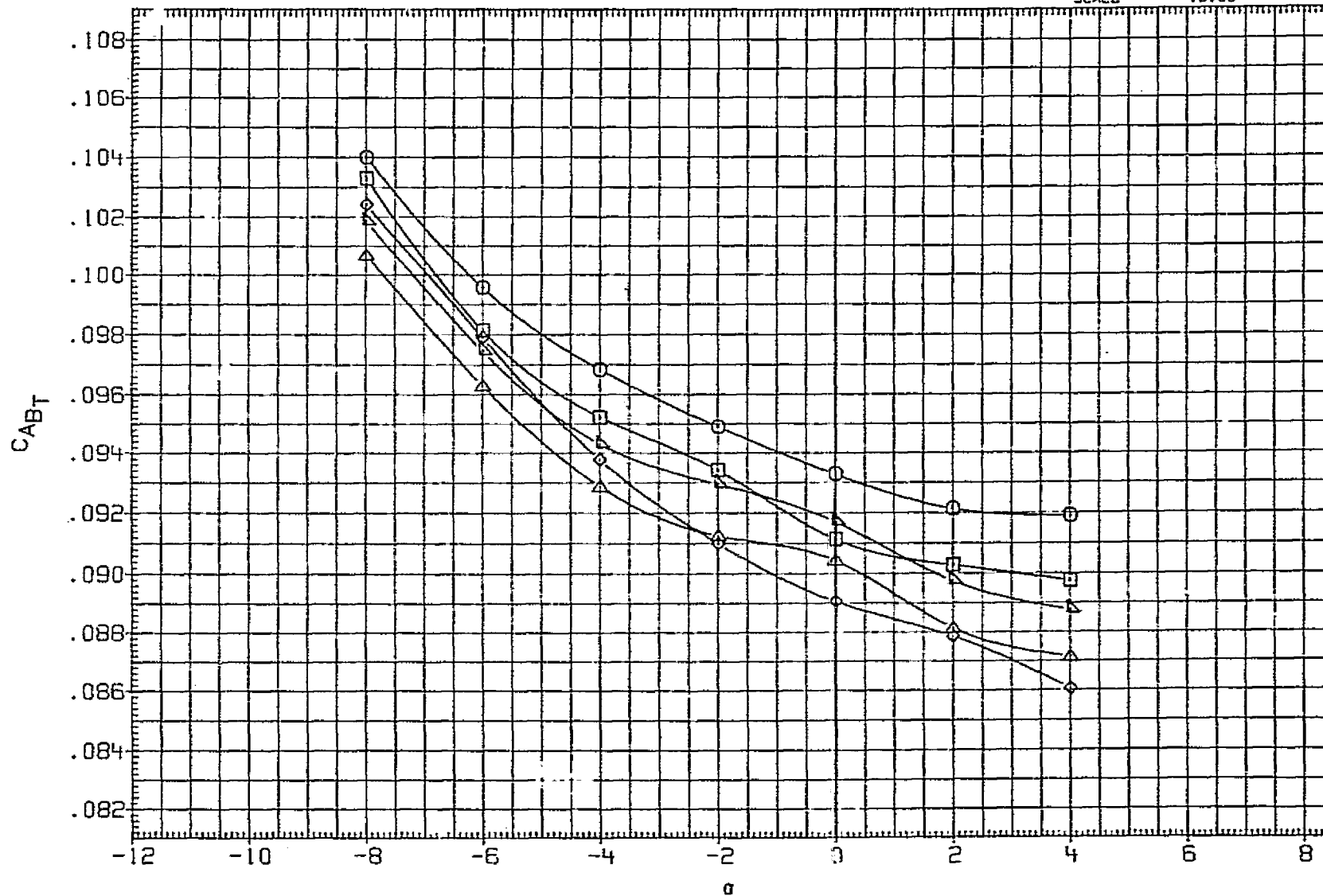


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB42	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	SQ. FT.
MJJB43	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJB45	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJB46	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

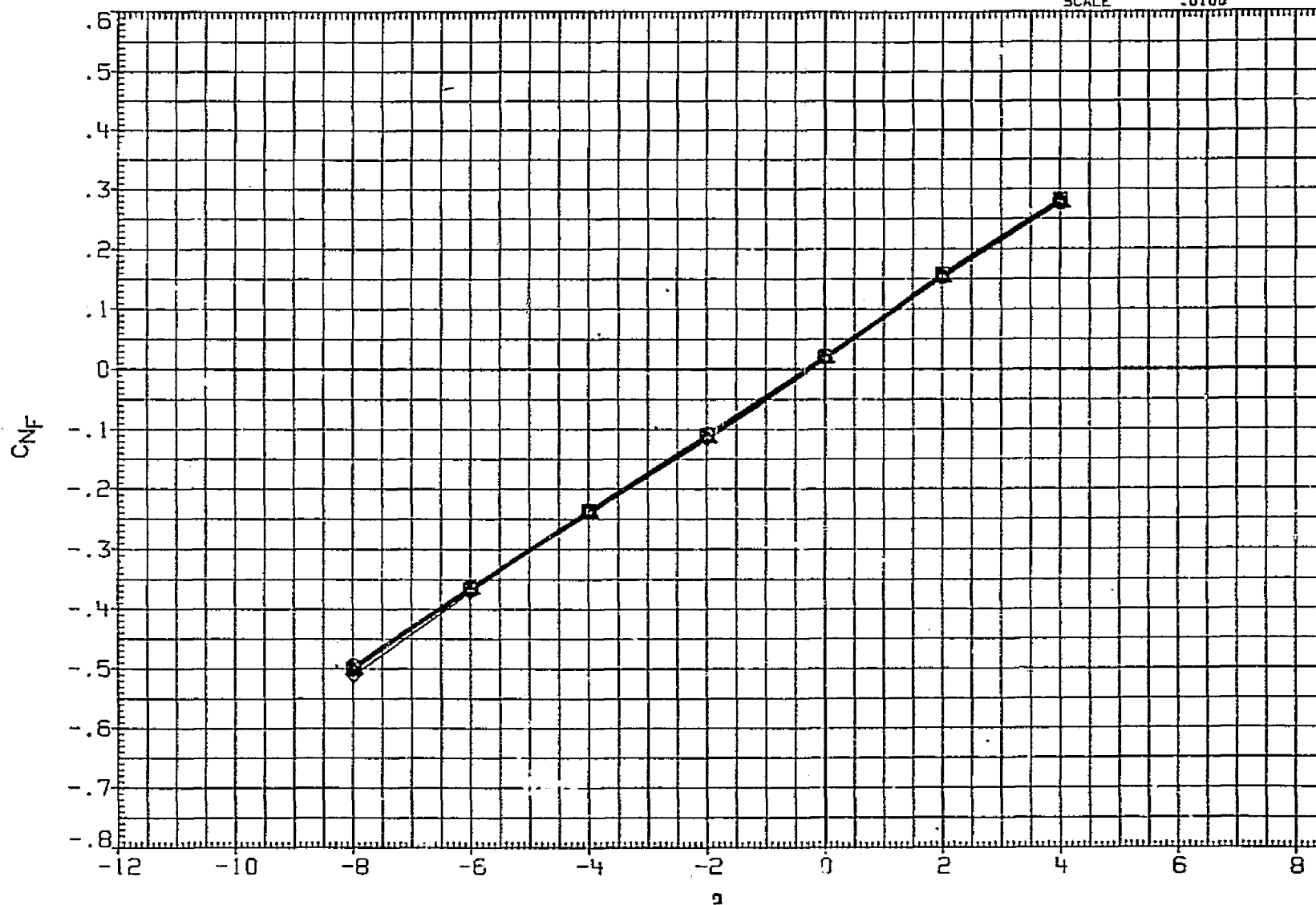


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LC	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ842	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	SQ. FT.
MJJ843	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJ844	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJ845	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	975.0000	IN. XT
MJJ846	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

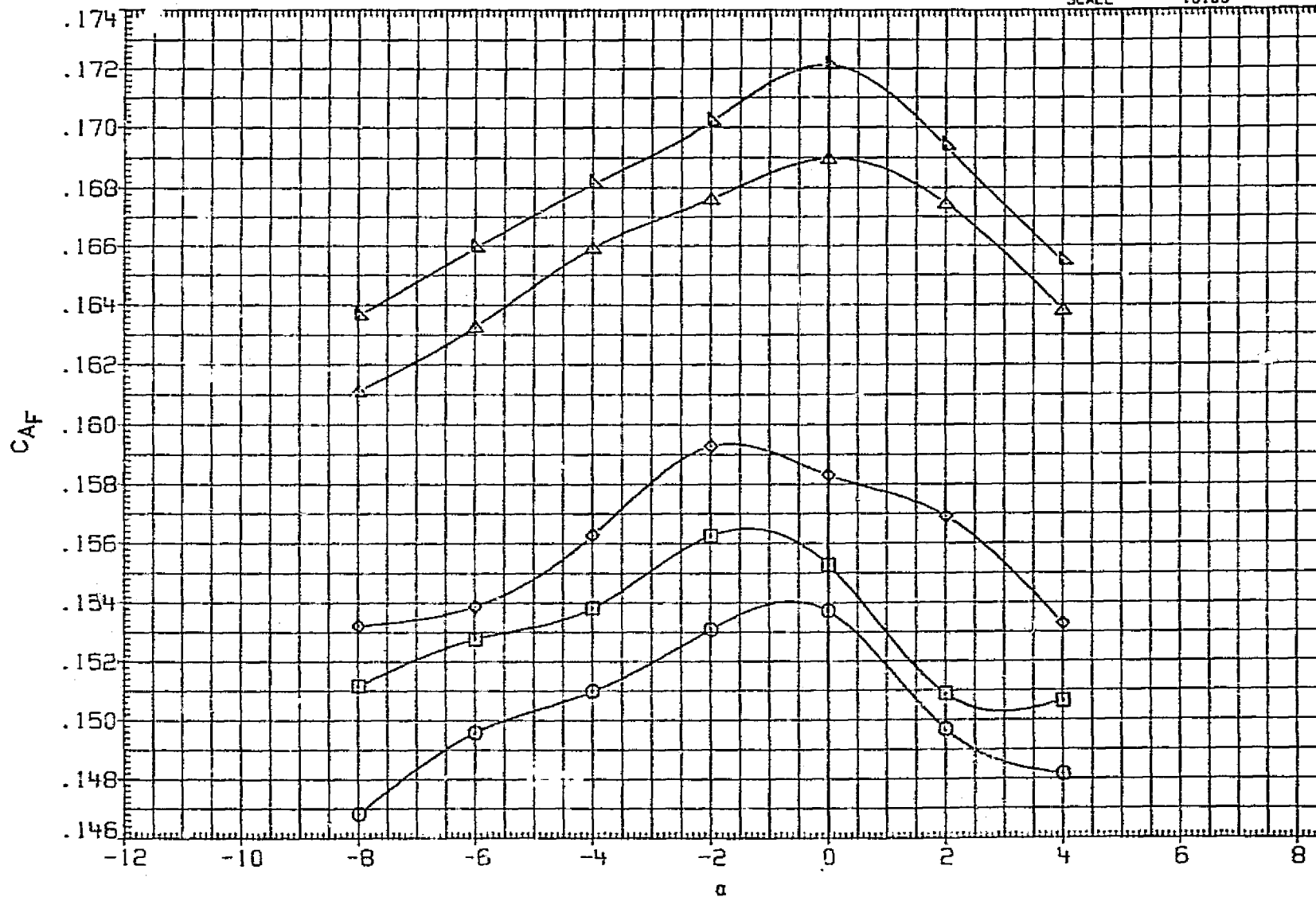


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.3000	50. FT.
MJJB43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	◇	LARC 8FT TPT 749 (1A95) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJB45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJB46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

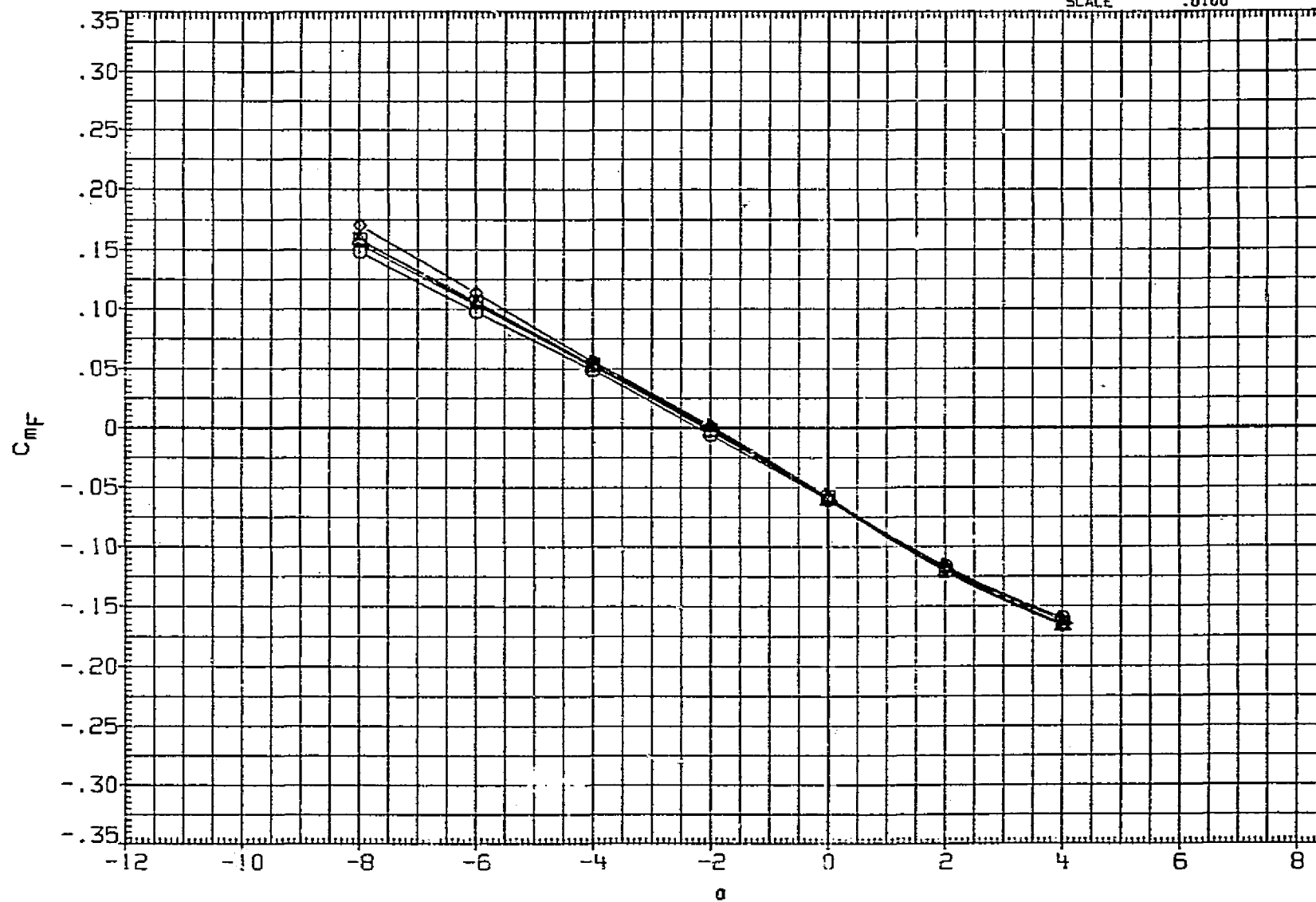


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB42	○ LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50. FT.
MJJB43	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJB45	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJB46	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

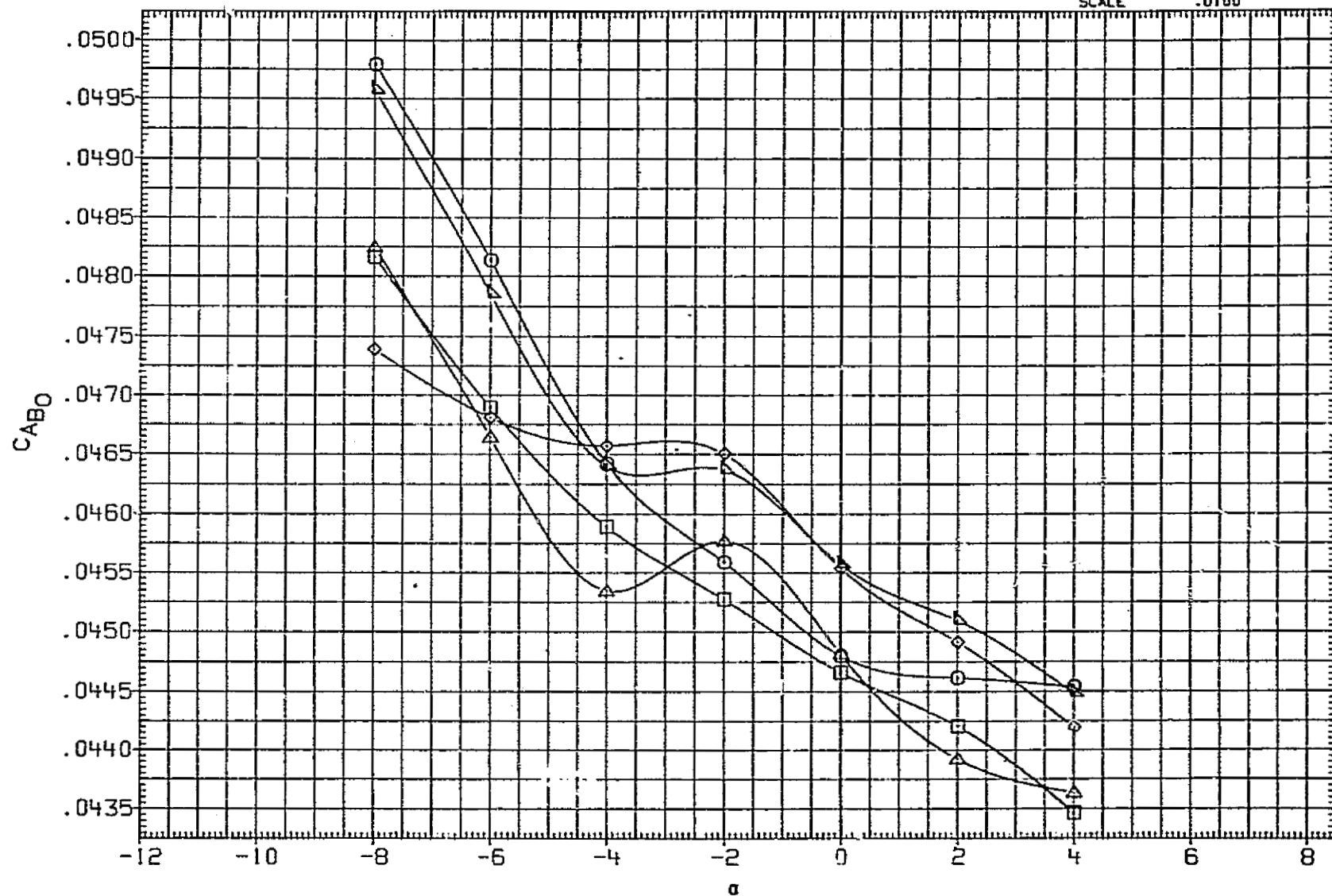


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJB42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	8.000	14.000	8.000	14.000	SREF	2690.0000 50. FT.
MJB43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000 INCHES
MJB44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000 INCHES
MJB45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	975.0000 IN. XT
MJB46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

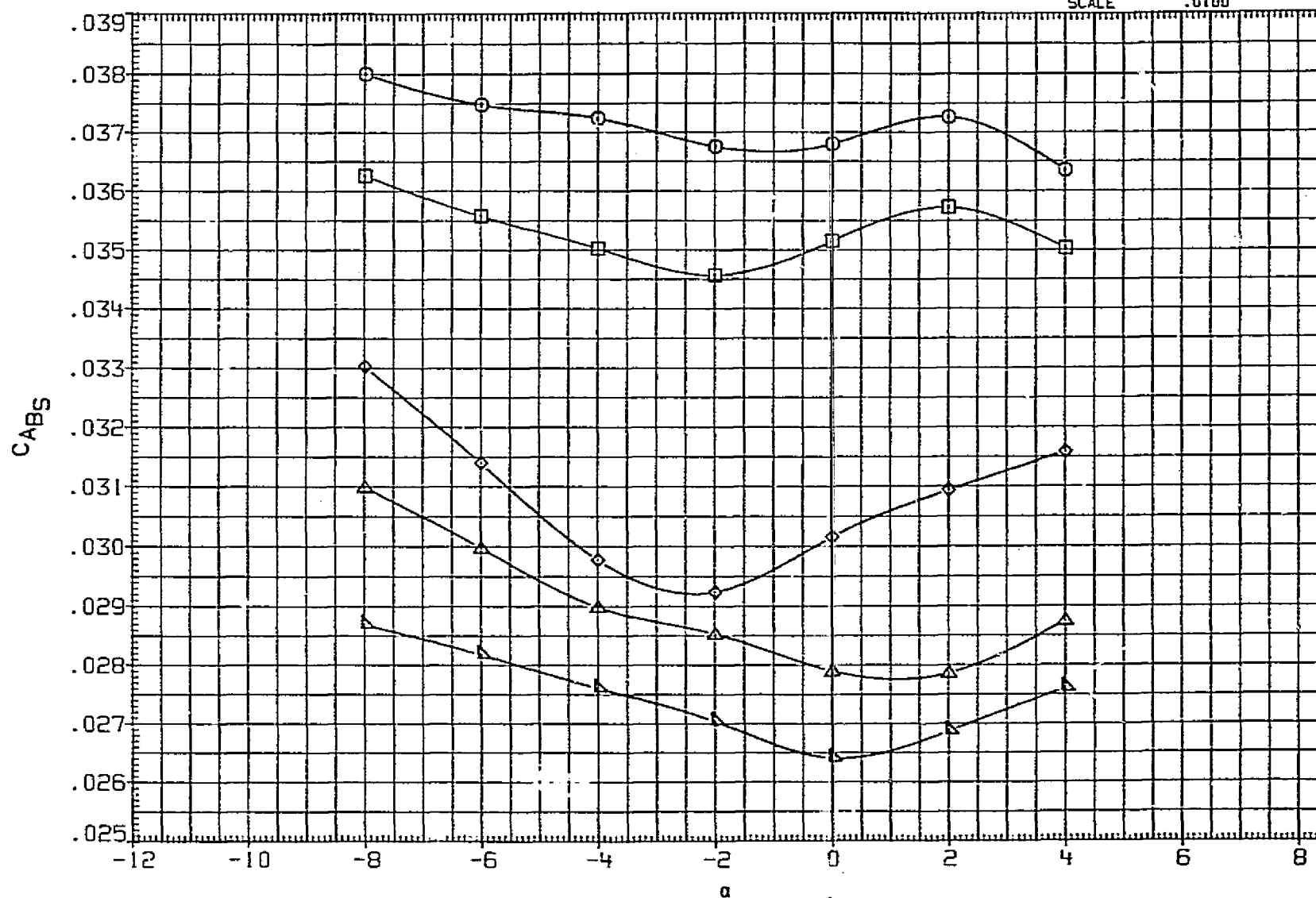


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	. REFERENCE INFORMATION		
MJJB42	○	LARC 9FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50. FT.
MJJB43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJB45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJB46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

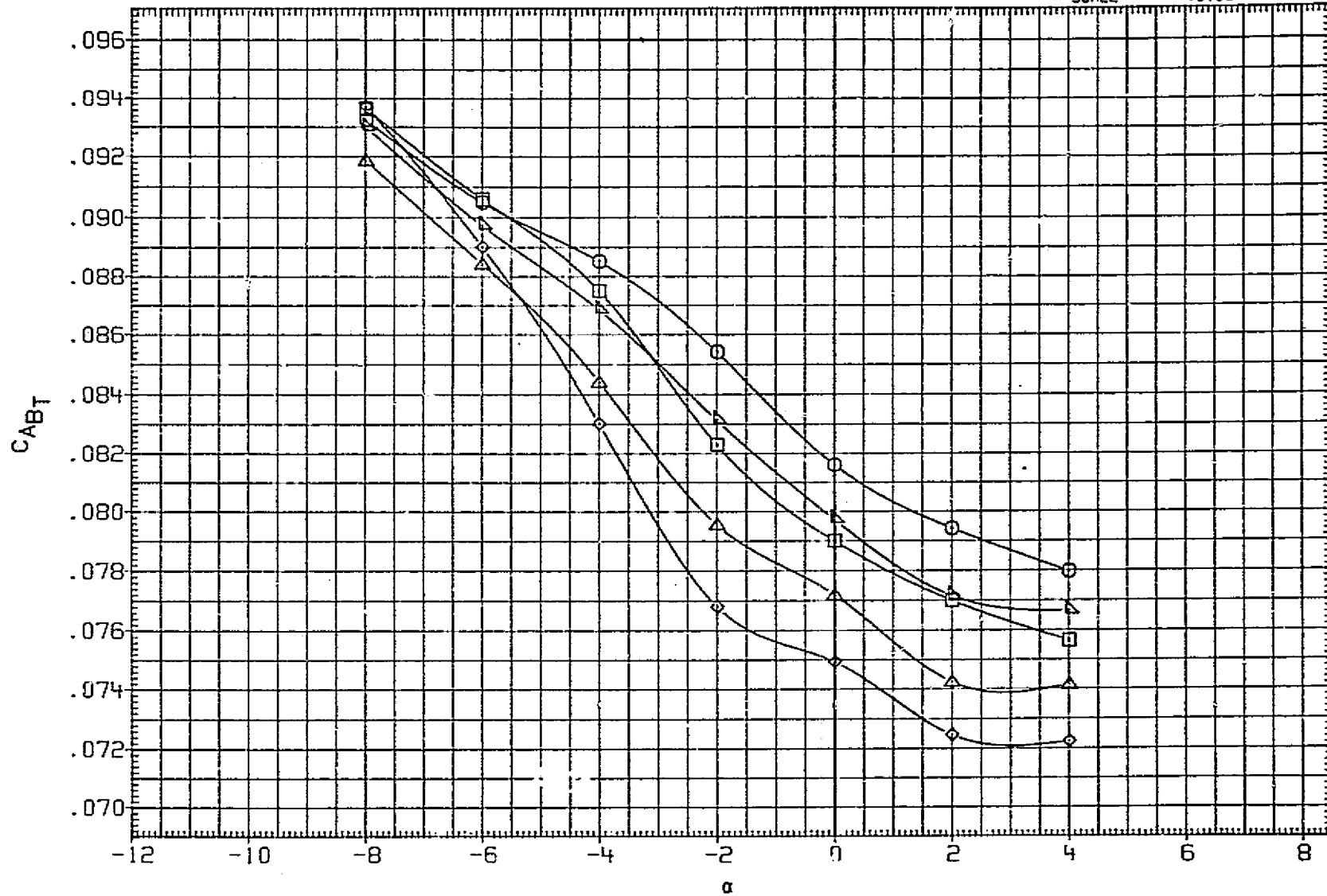


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50.FT.
MJJB43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJB45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJB46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

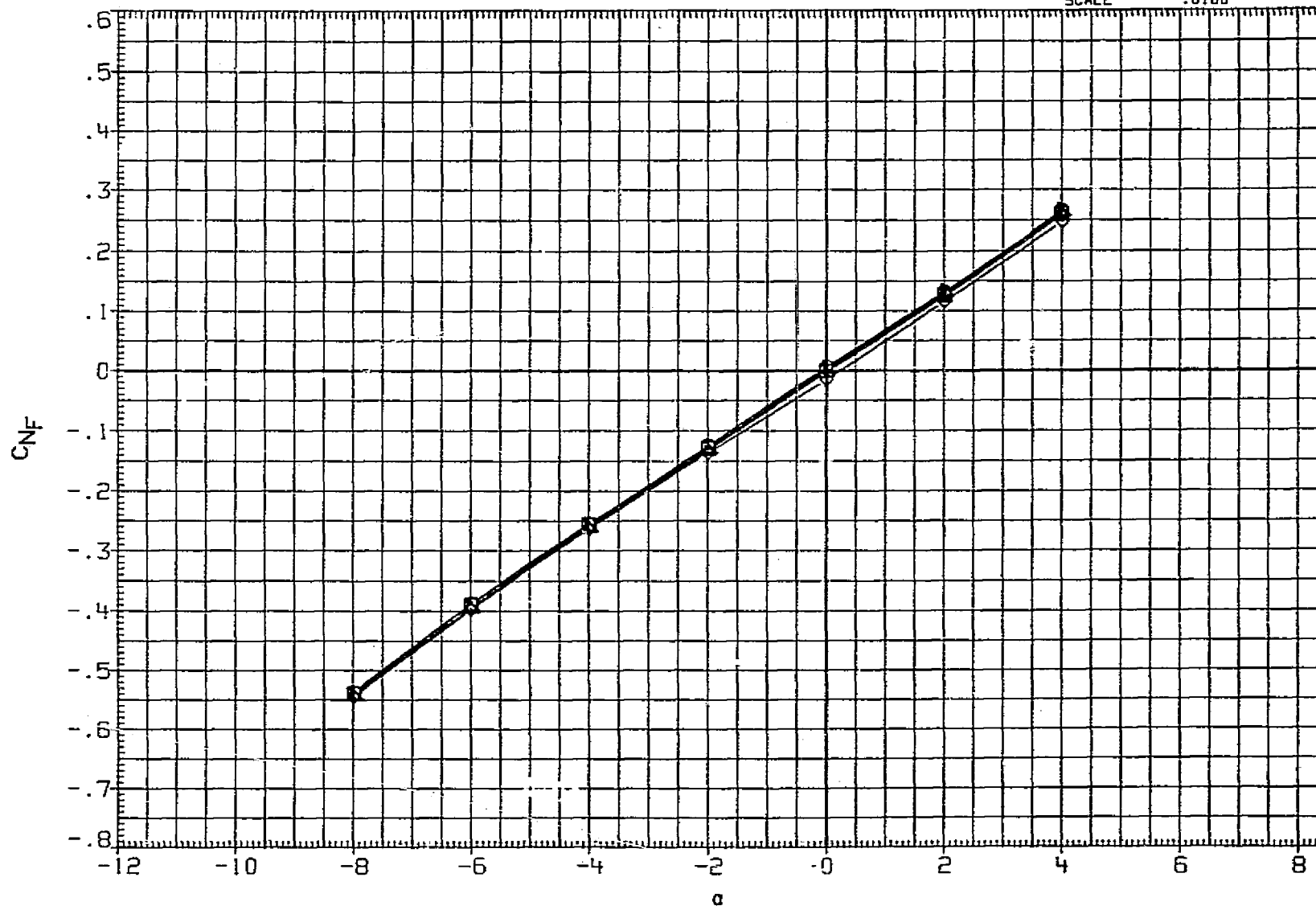


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB42	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	8.000	14.000	8.000	14.000	SREF	2690.0000	SQ.FT.
MJJB43	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJB45	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJB46	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

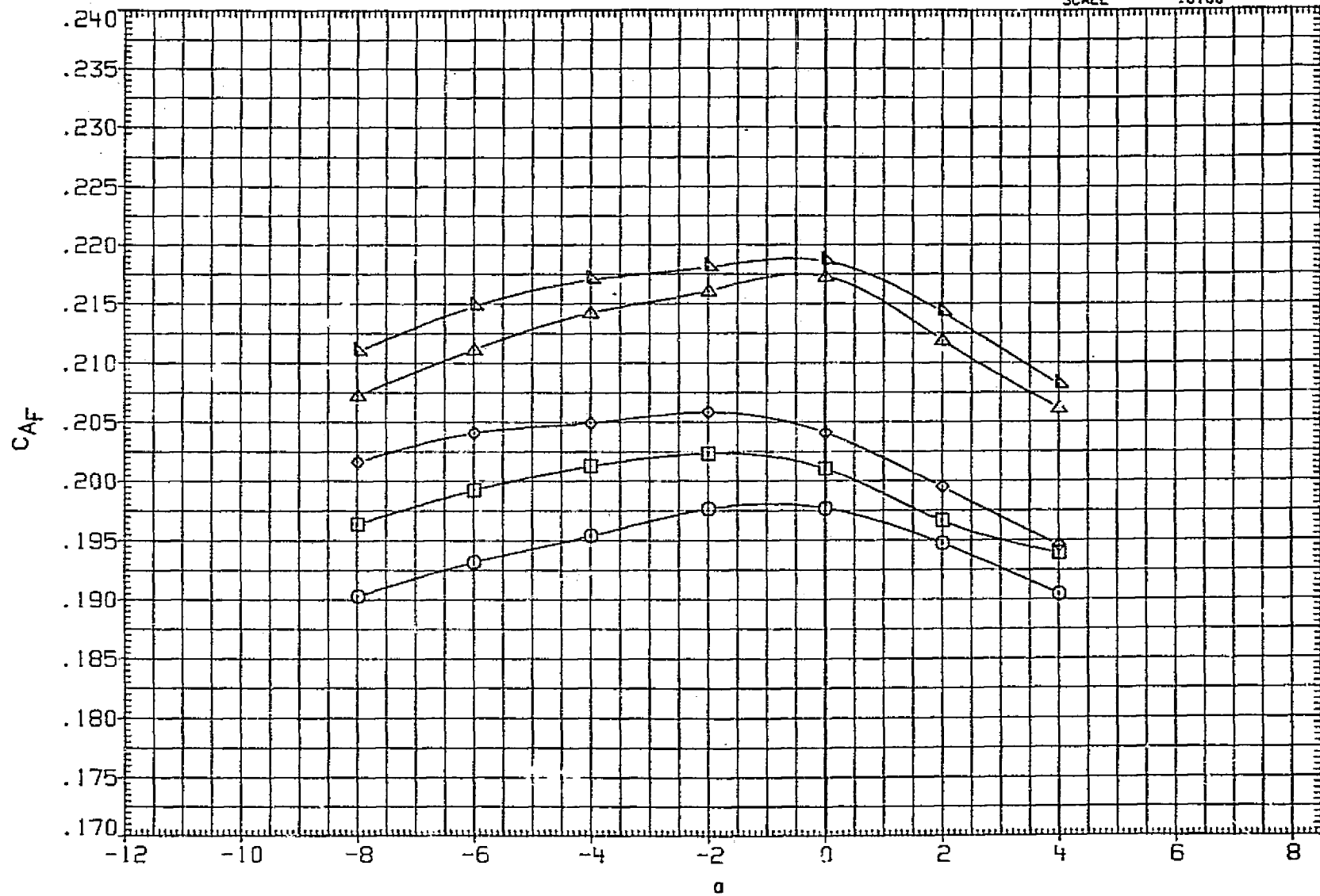


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000 50.FT.
MJJB43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000 INCHES
MJJB44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000 INCHES
MJJB45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000 IN. XT
MJJB46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

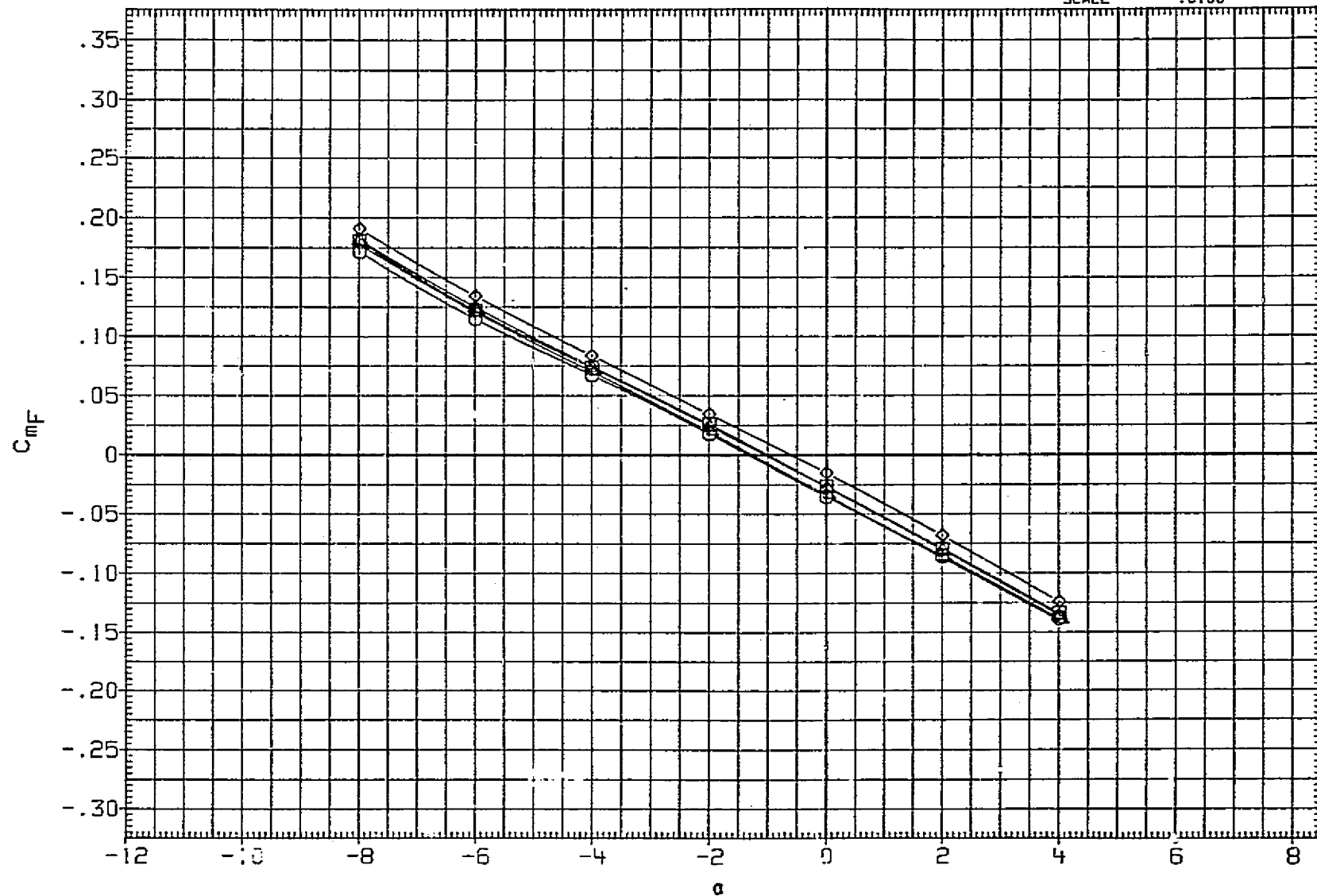


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ842	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	SC.FT.
MJJ843	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJ844	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJ845	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJ846	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

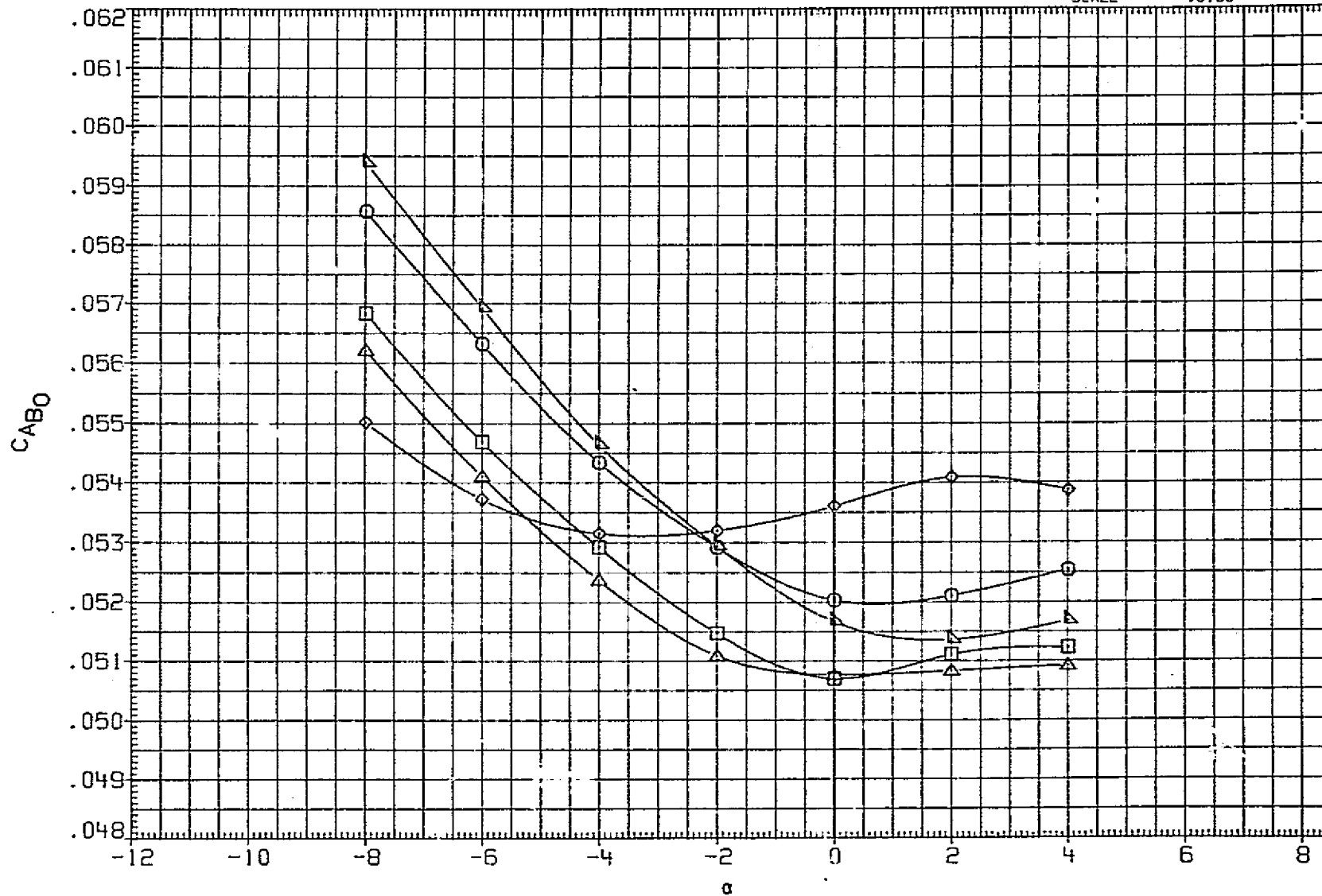


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .99

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50.FT.
MJJB43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJB45	△	LARC 8FT TPT 749 (1A93) OTSAT130	1.000	8.000	14.000	8.000	14.000	XMRF	975.0000	IN. XT
MJJB46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRF	.0000	IN. YT
								ZMRF	400.0000	IN. ZT
								SCALE	.0100	

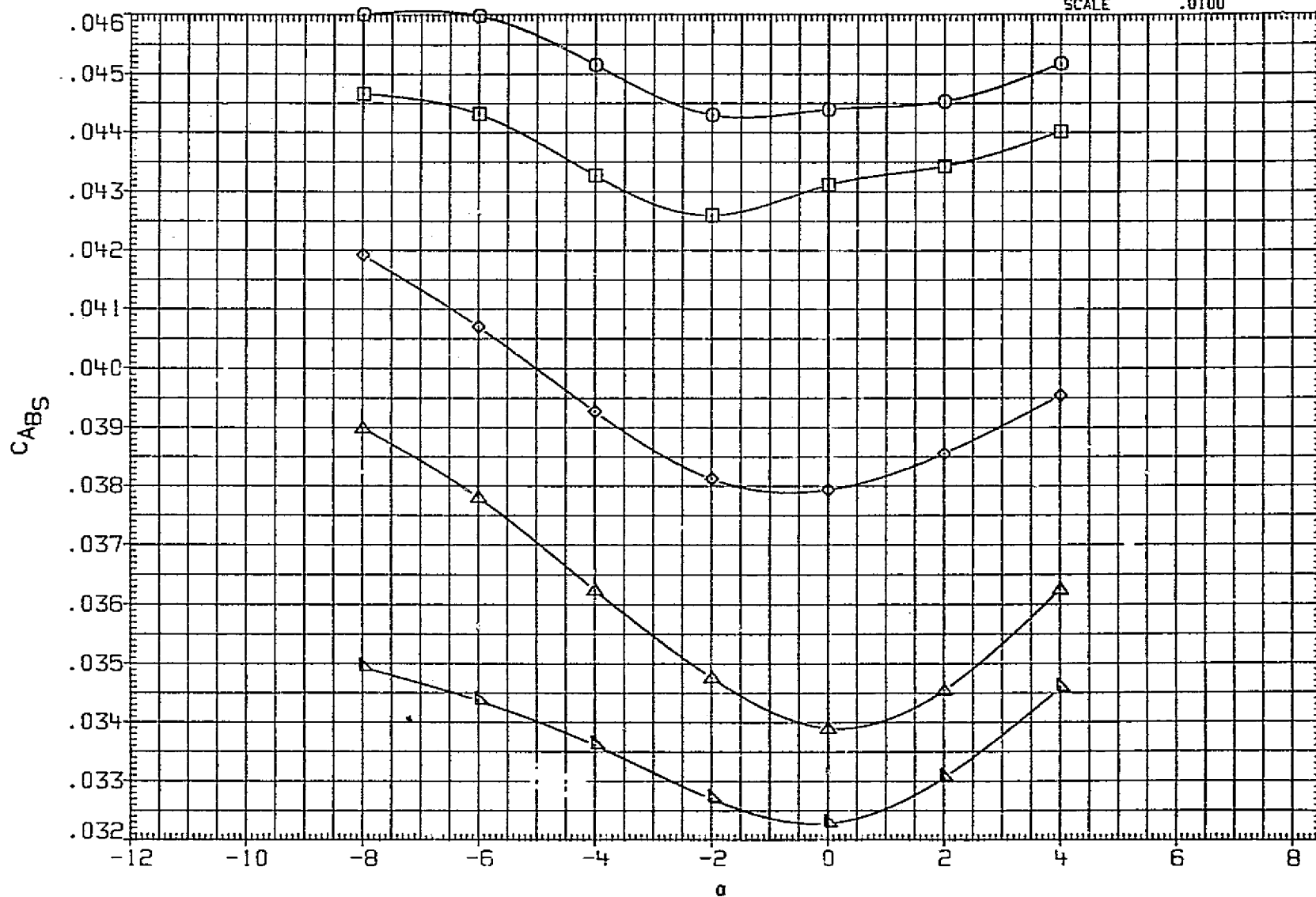


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB42	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50. FT.
MJJB43	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1250.3000	INCHES
MJJB44	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1230.3000	INCHES
MJJB45	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJB46	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

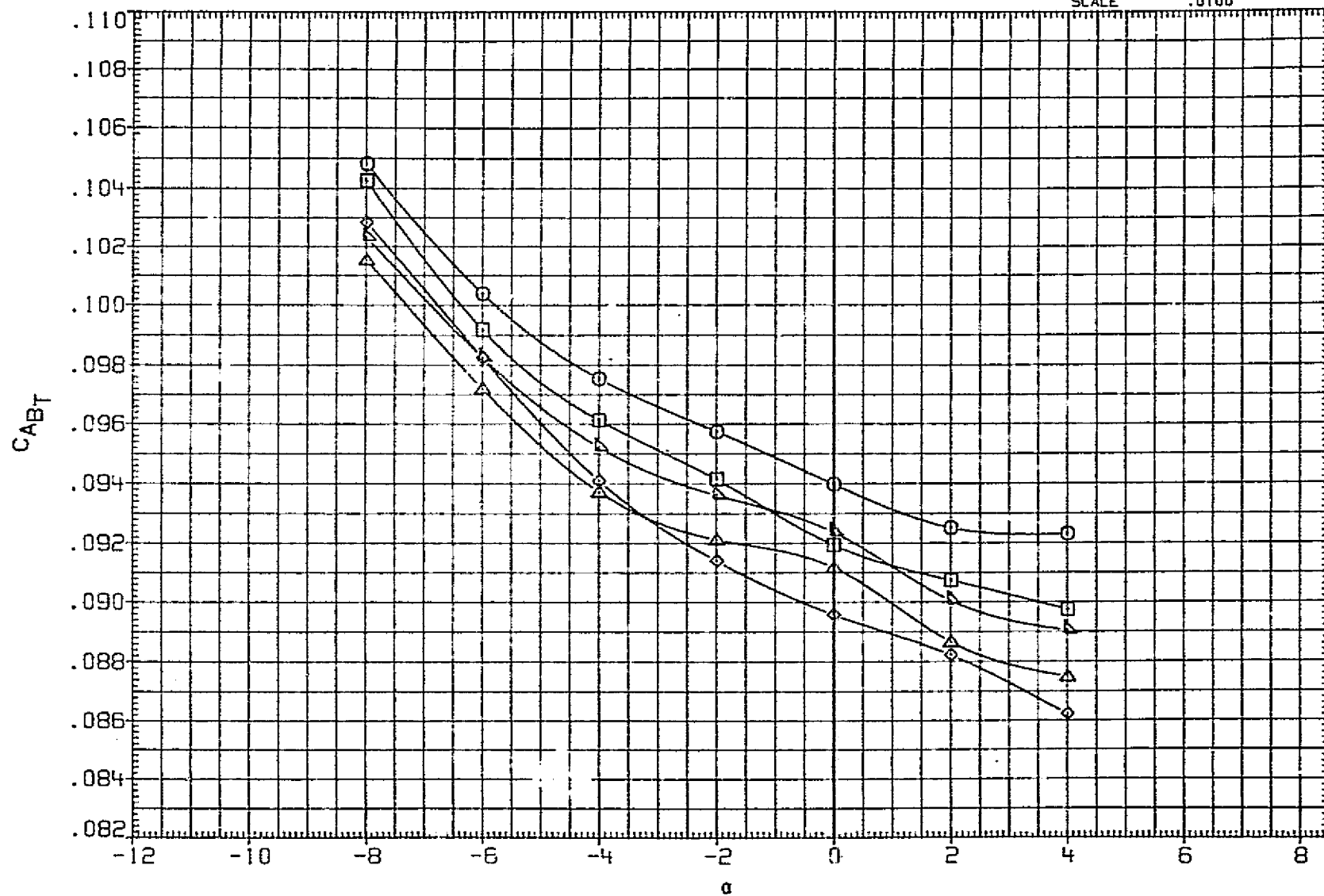


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RJ	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJB48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	-0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

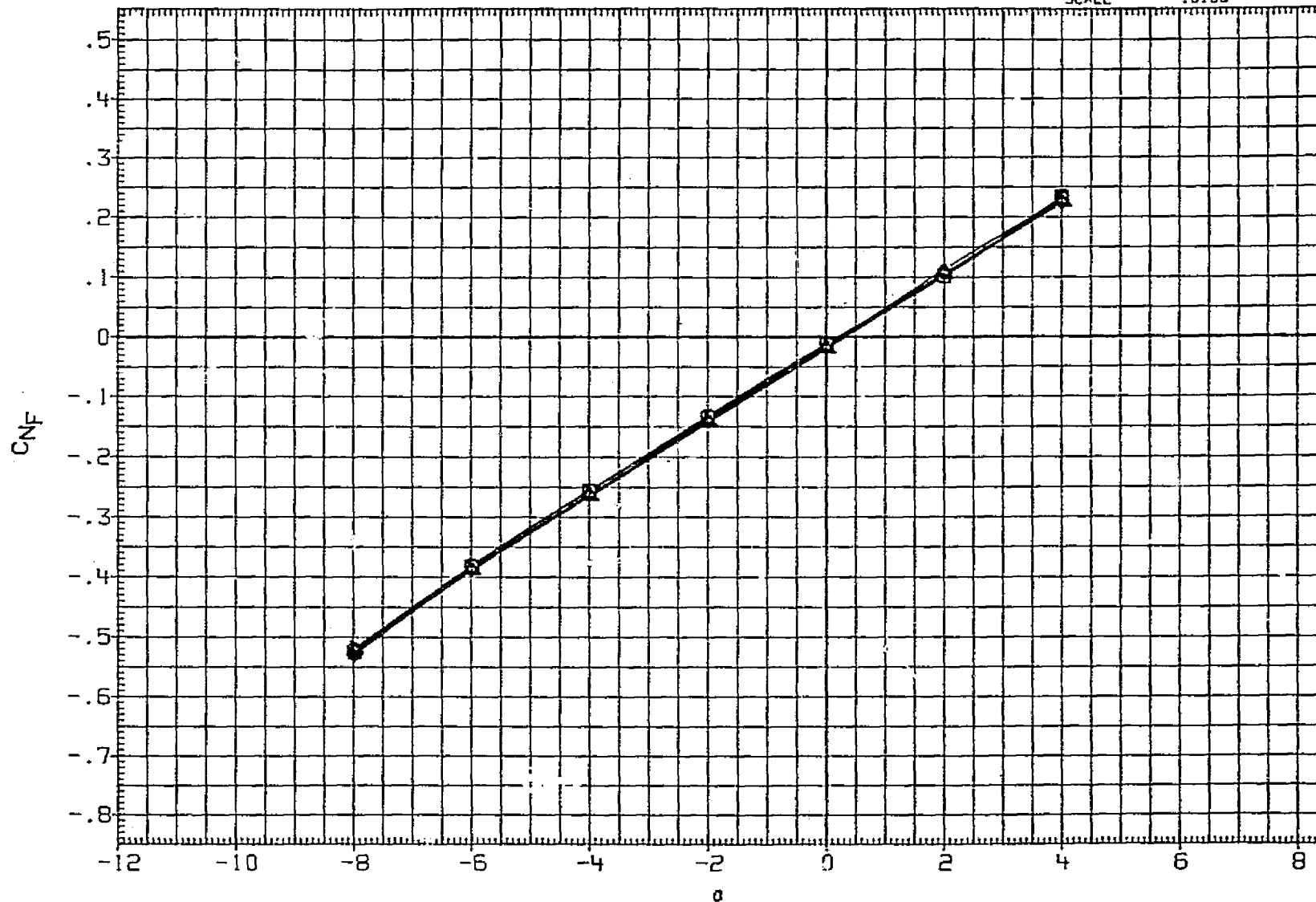


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

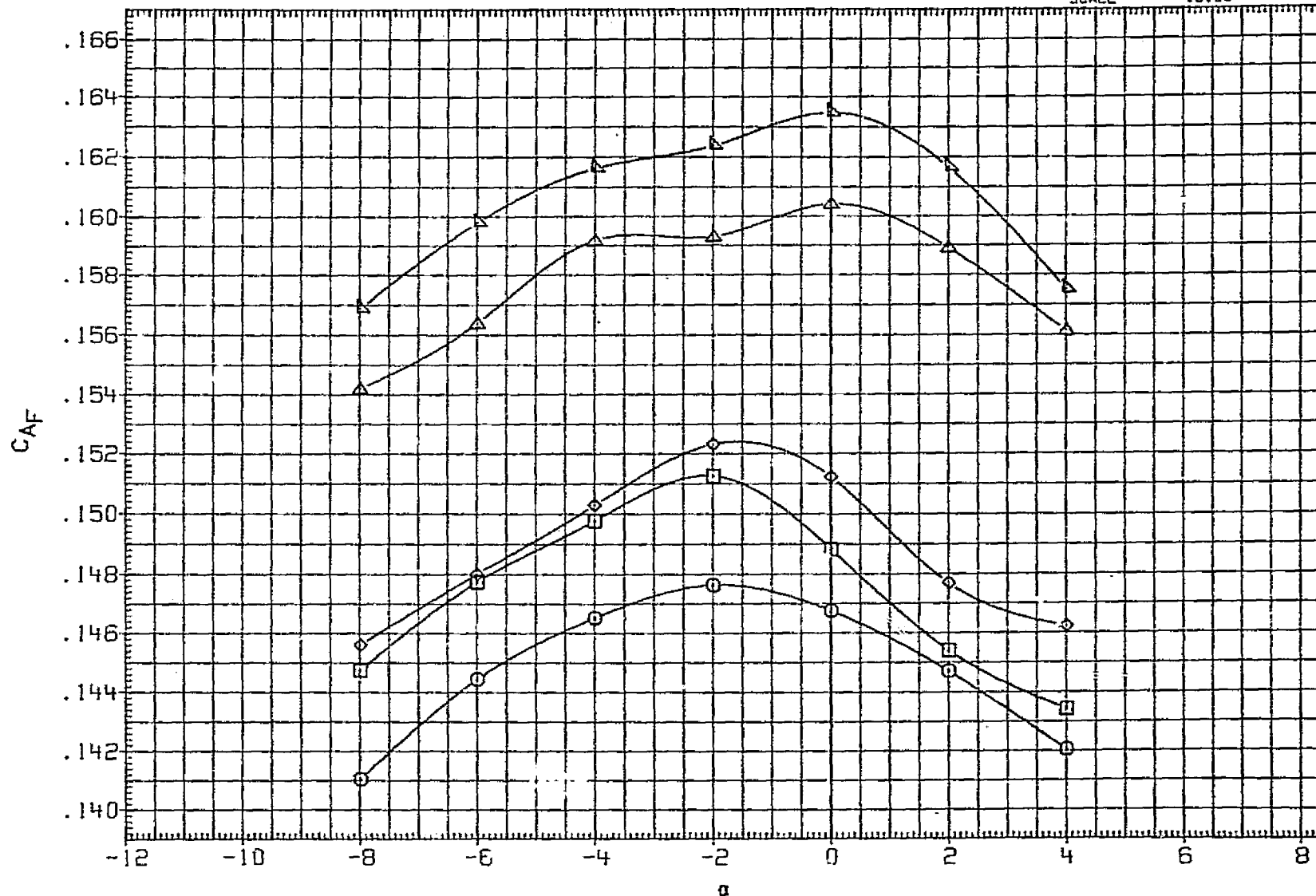


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

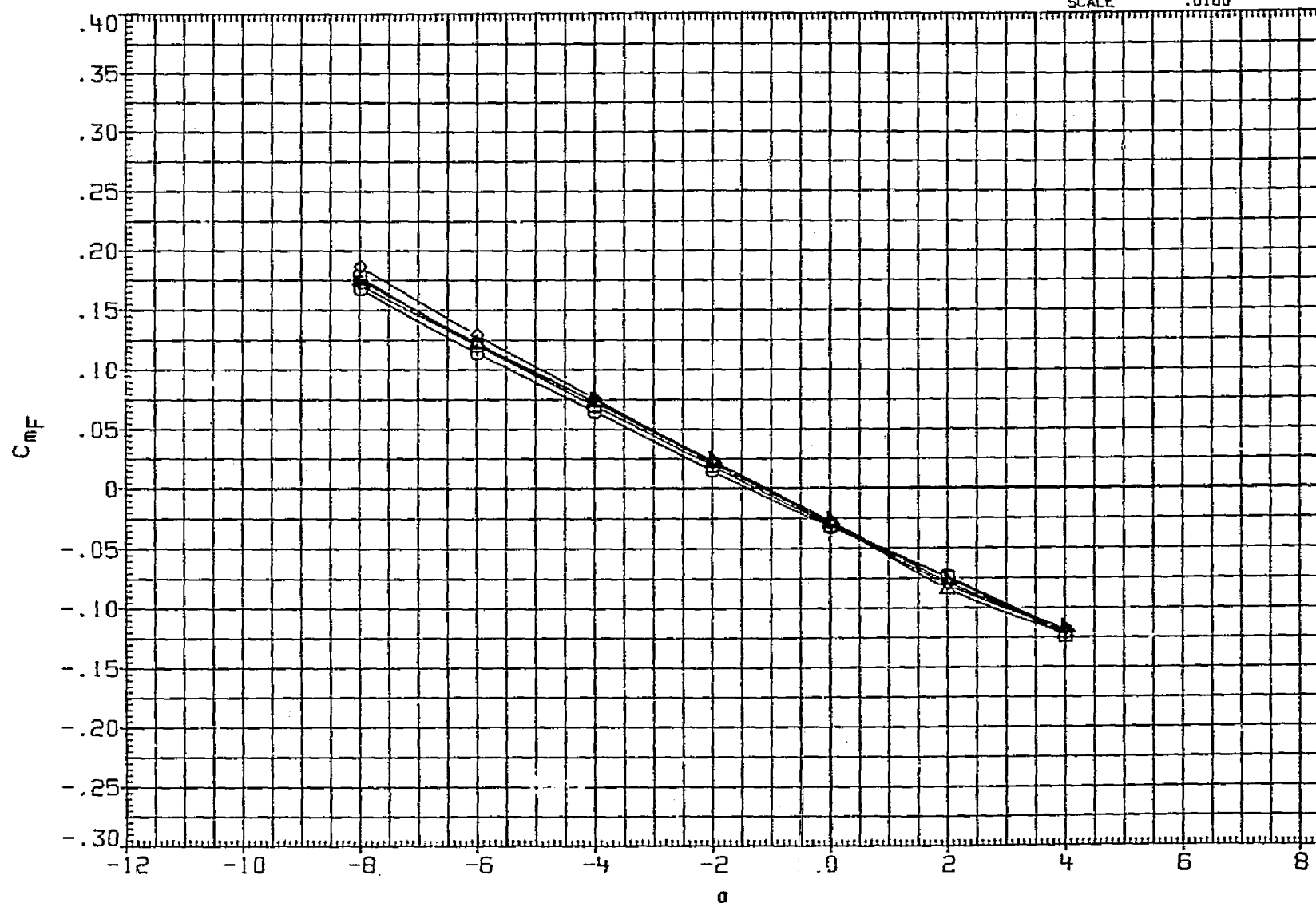


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ. FT.
MJJB48	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XHRP	976.0000	IN. XT
MJJB51	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YHRP	.0000	IN. YT
							ZHRP	400.0000	IN. ZT
							SCALE	.0100	

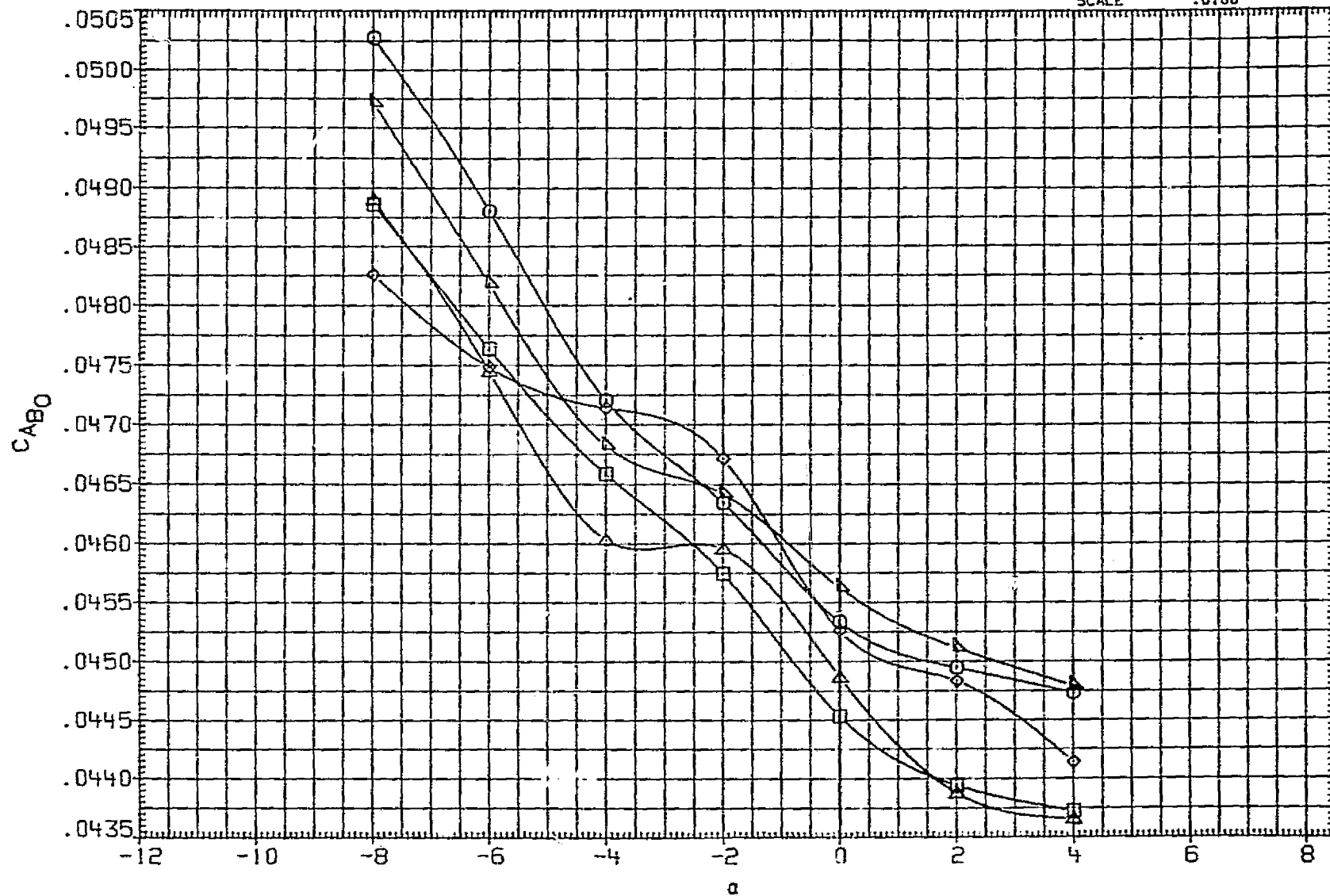


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ847	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2696.0000	50.FT.
MJJ848	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJ849	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJ850	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJ851	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

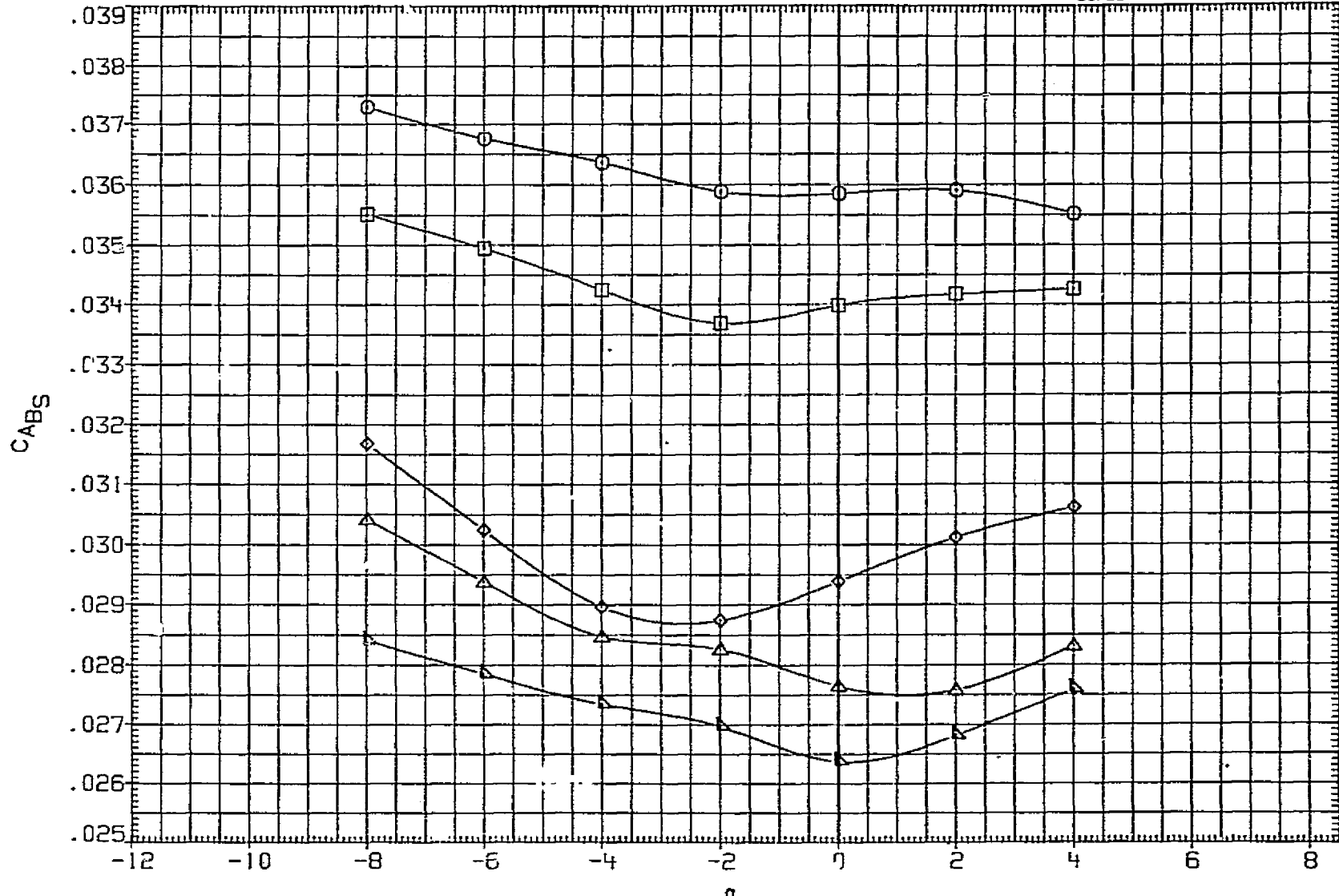


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ847	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJ848	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJ849	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJ850	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJ851	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

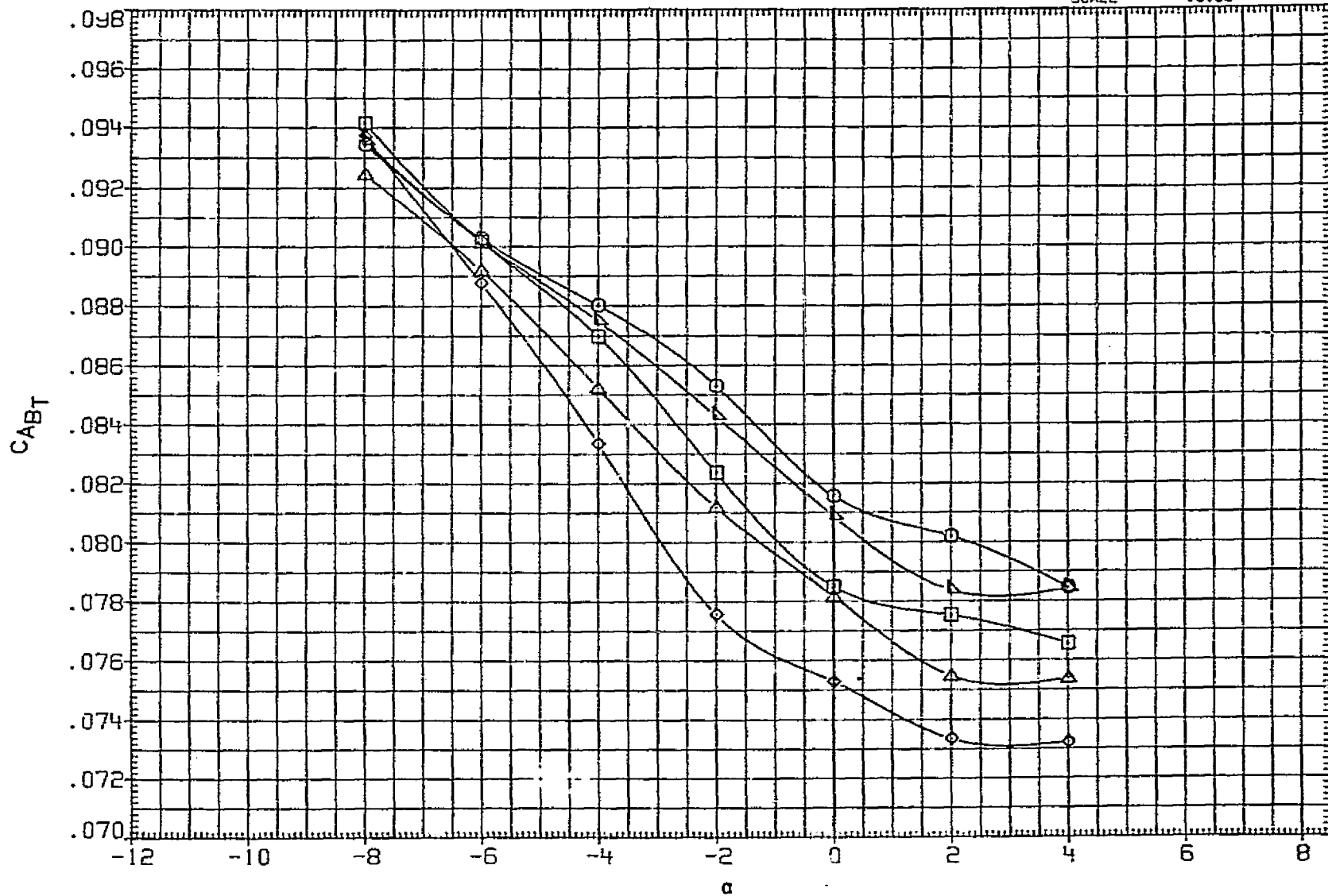


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SO.FT.
MJJB48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0008	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

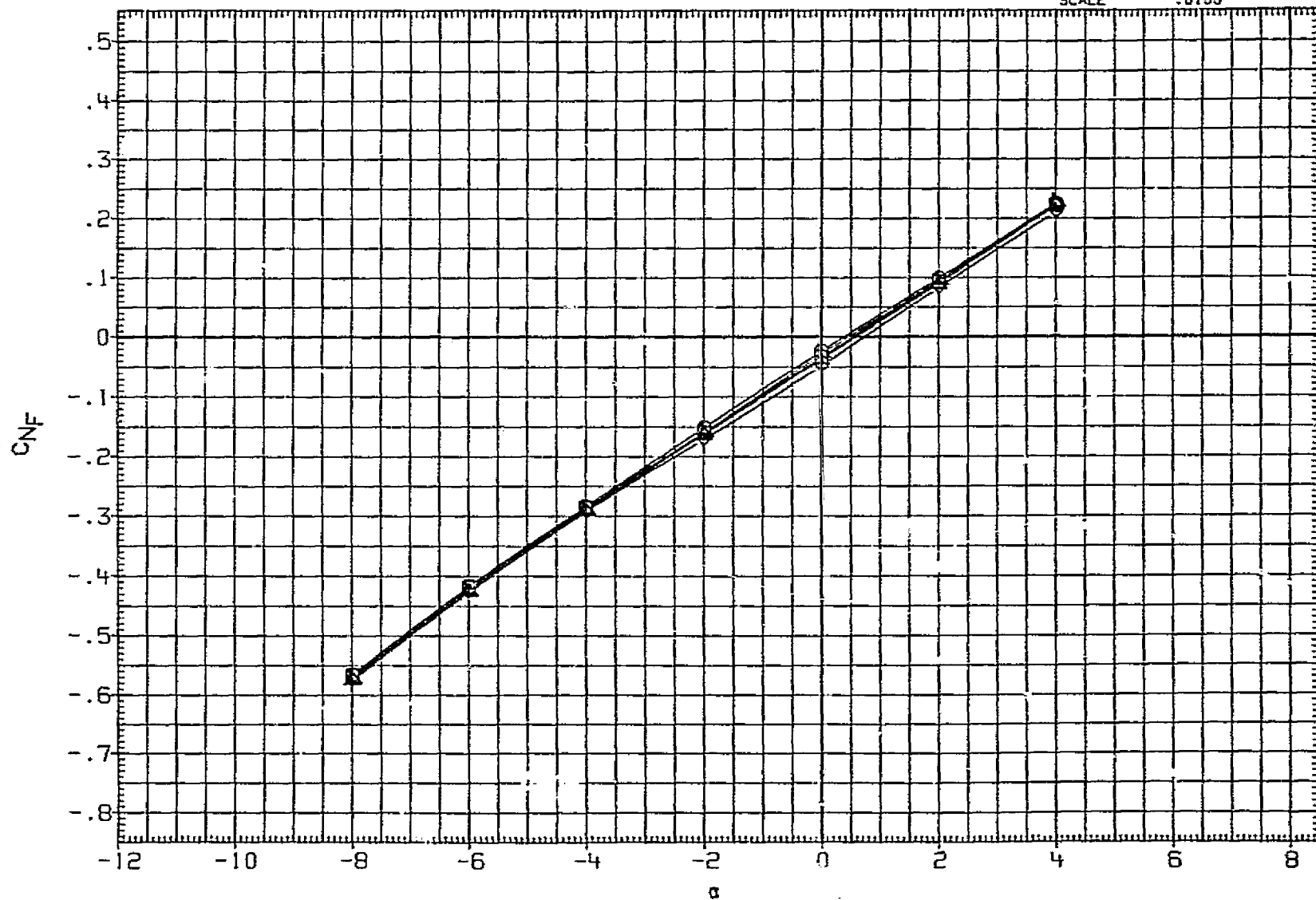


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2650.0000	SO. FT.
MJJB48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	-0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

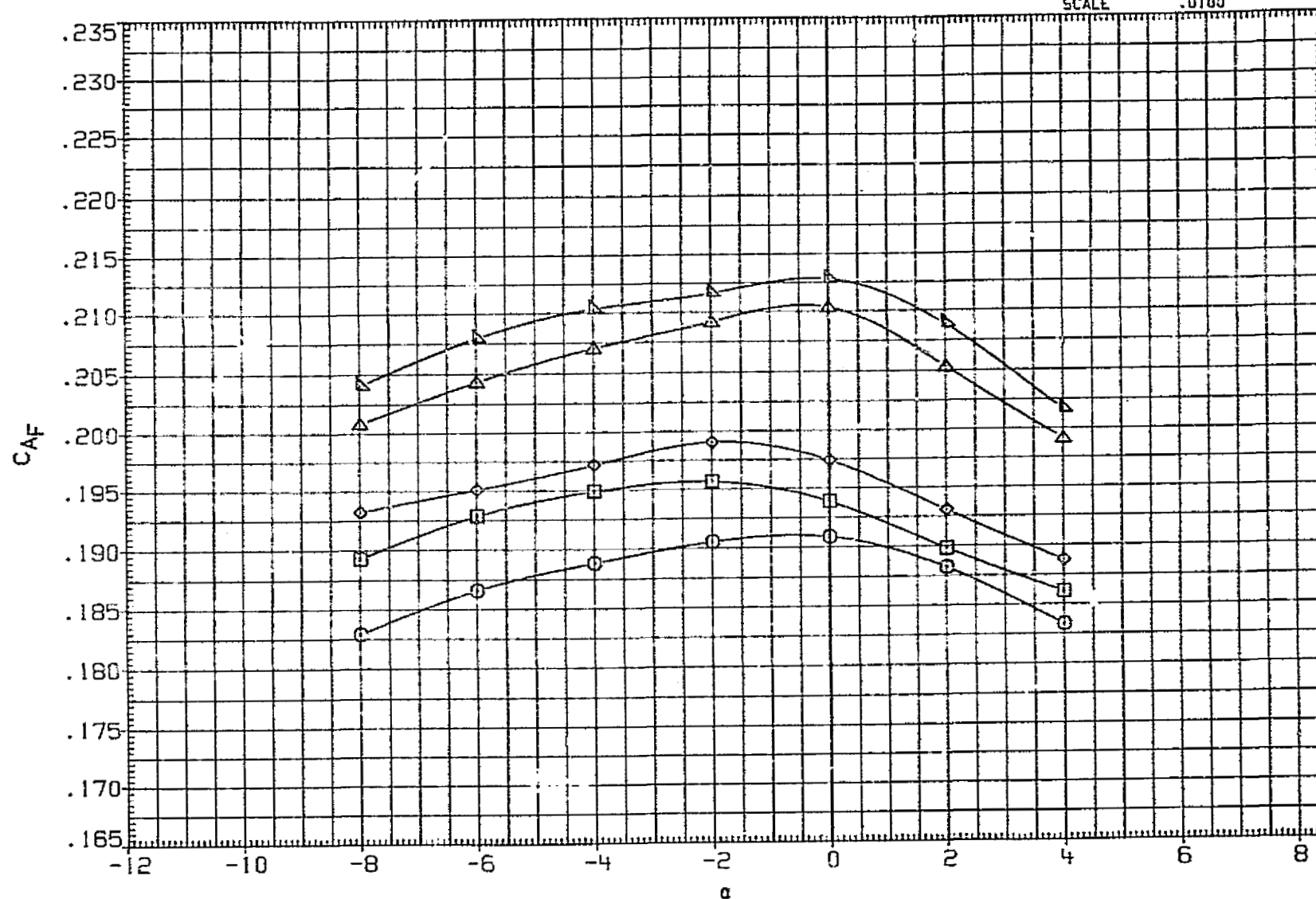


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

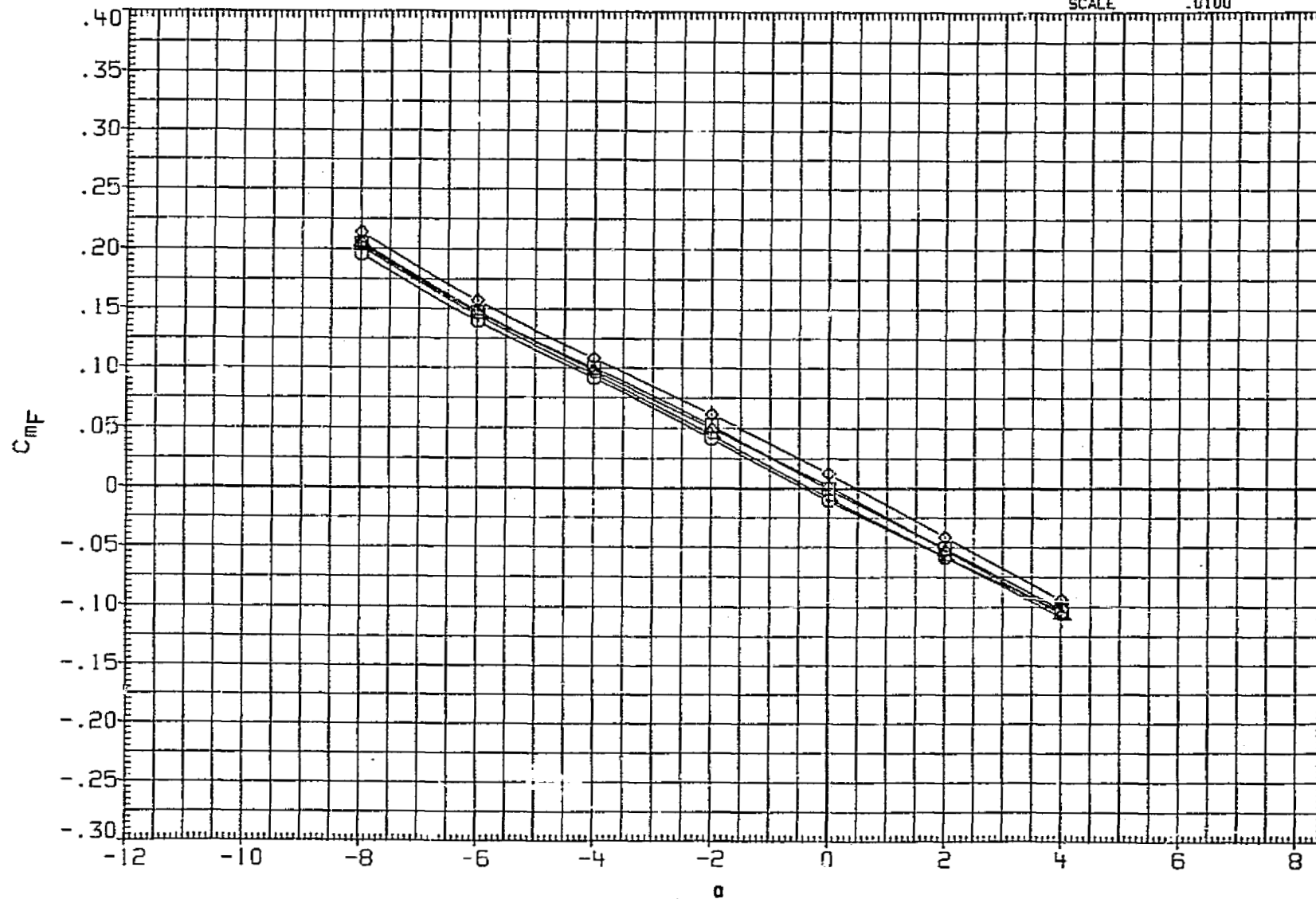


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMAP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMAP	.0000	IN. YT
								ZMAP	400.0000	IN. ZT
								SCALE	.0100	

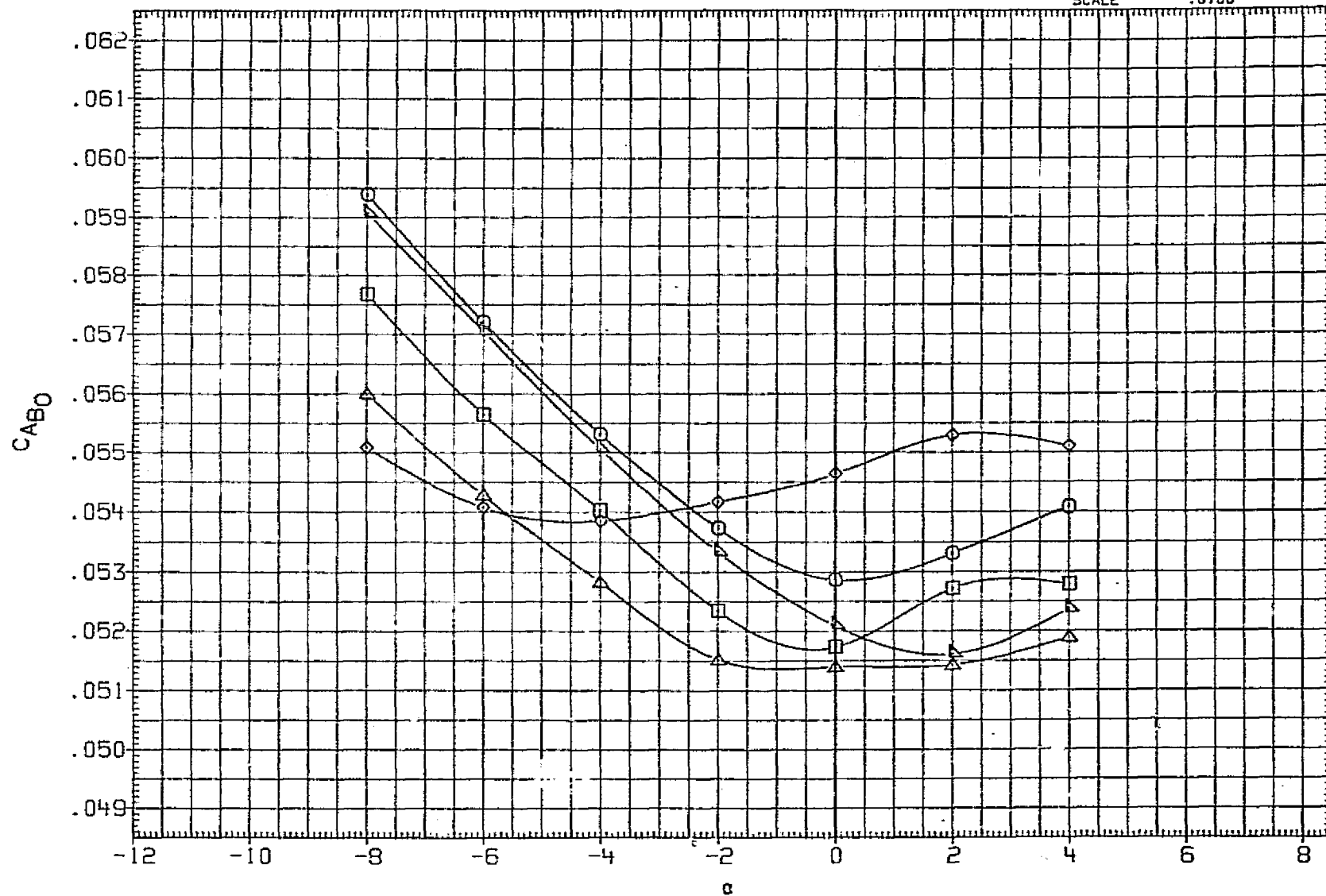


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (IA93) OTSAT130	-5.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ. FT.
MJJB48	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

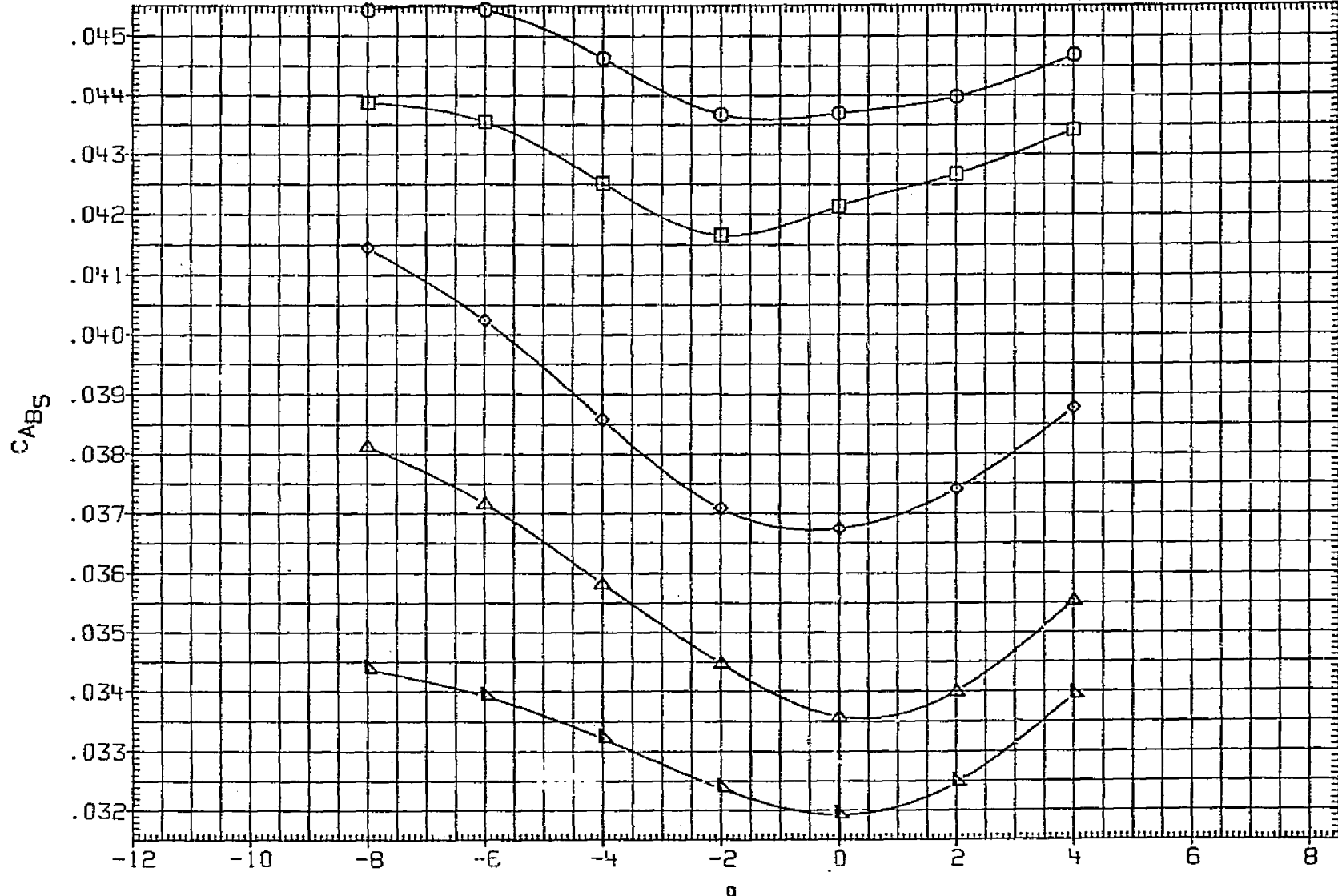


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

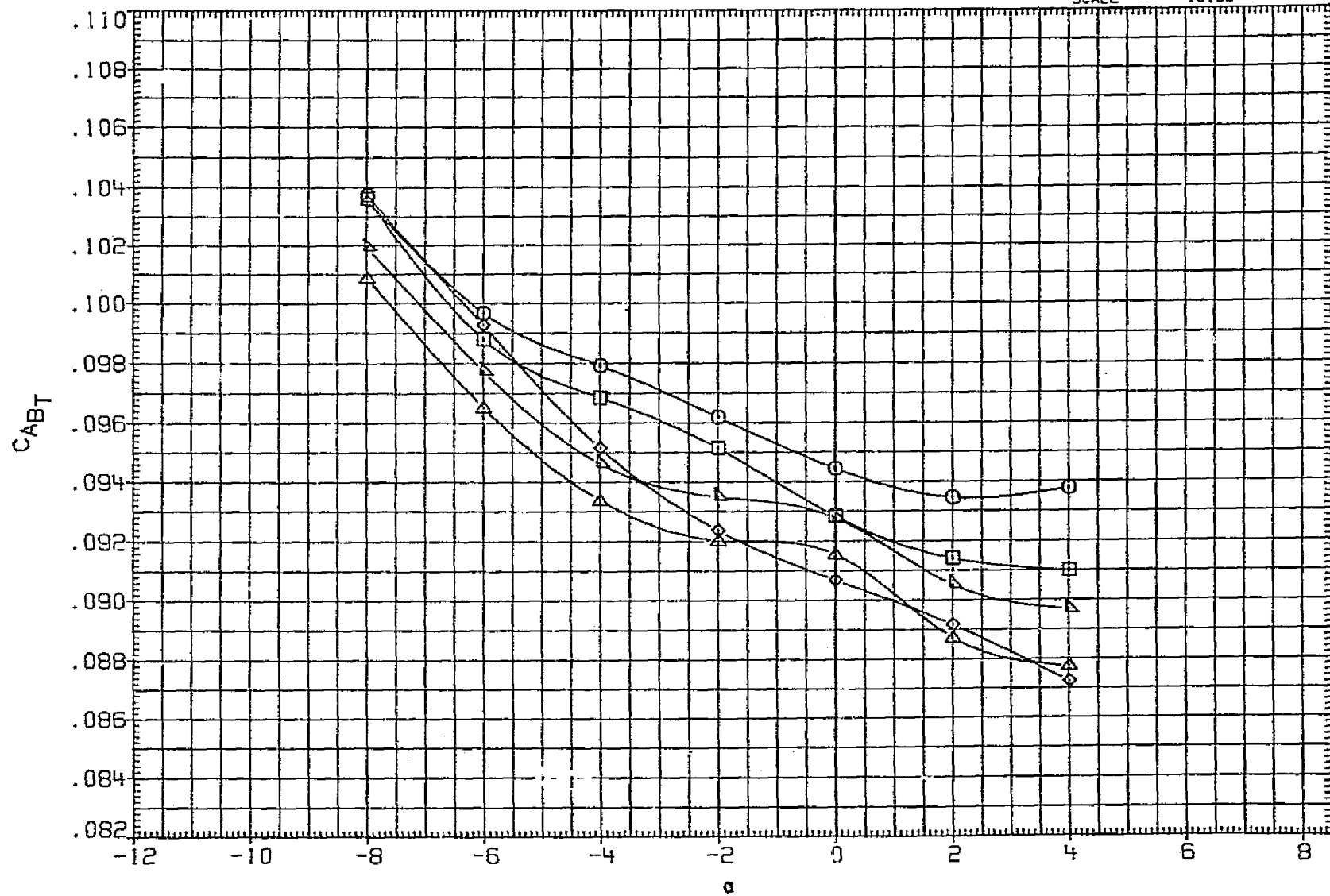


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.8100	

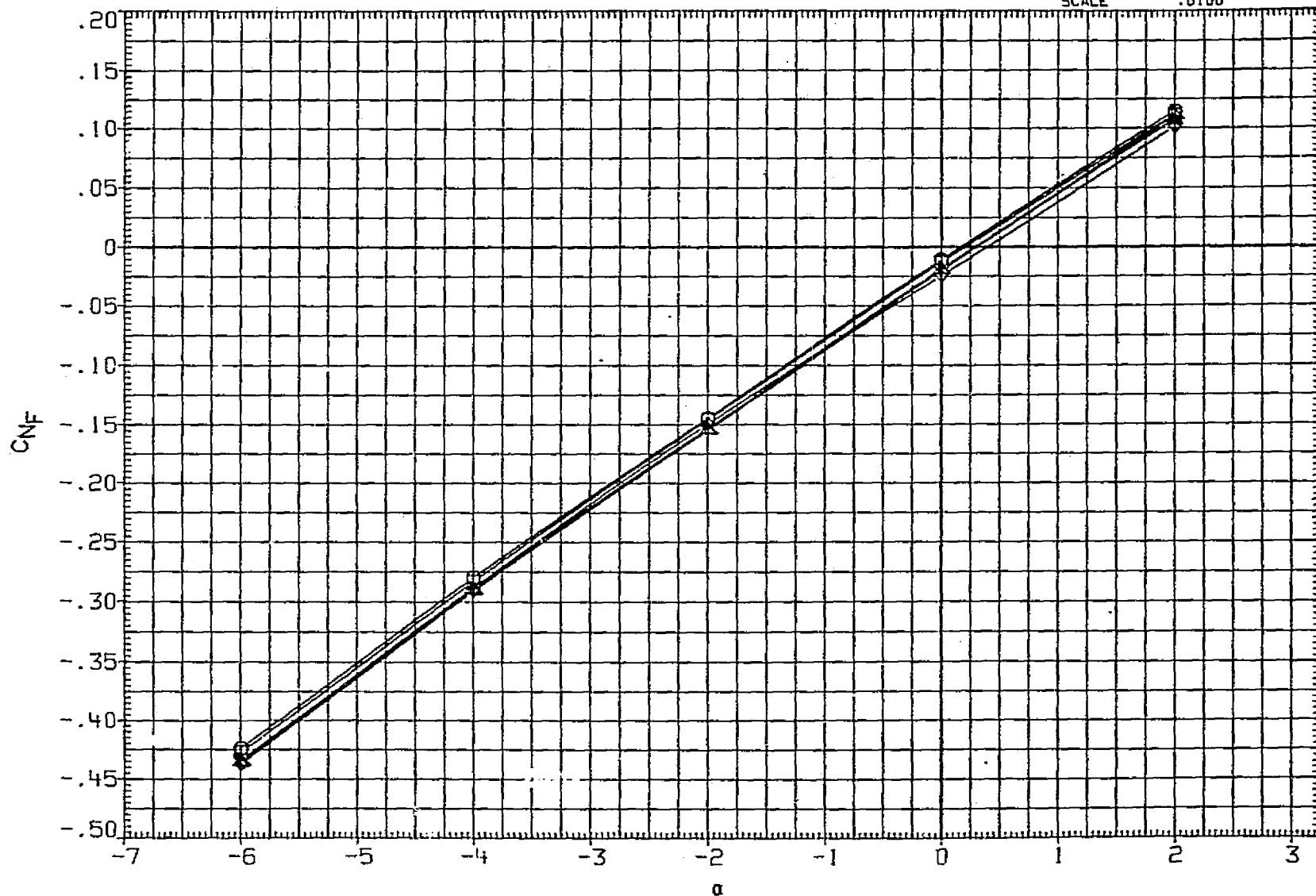


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

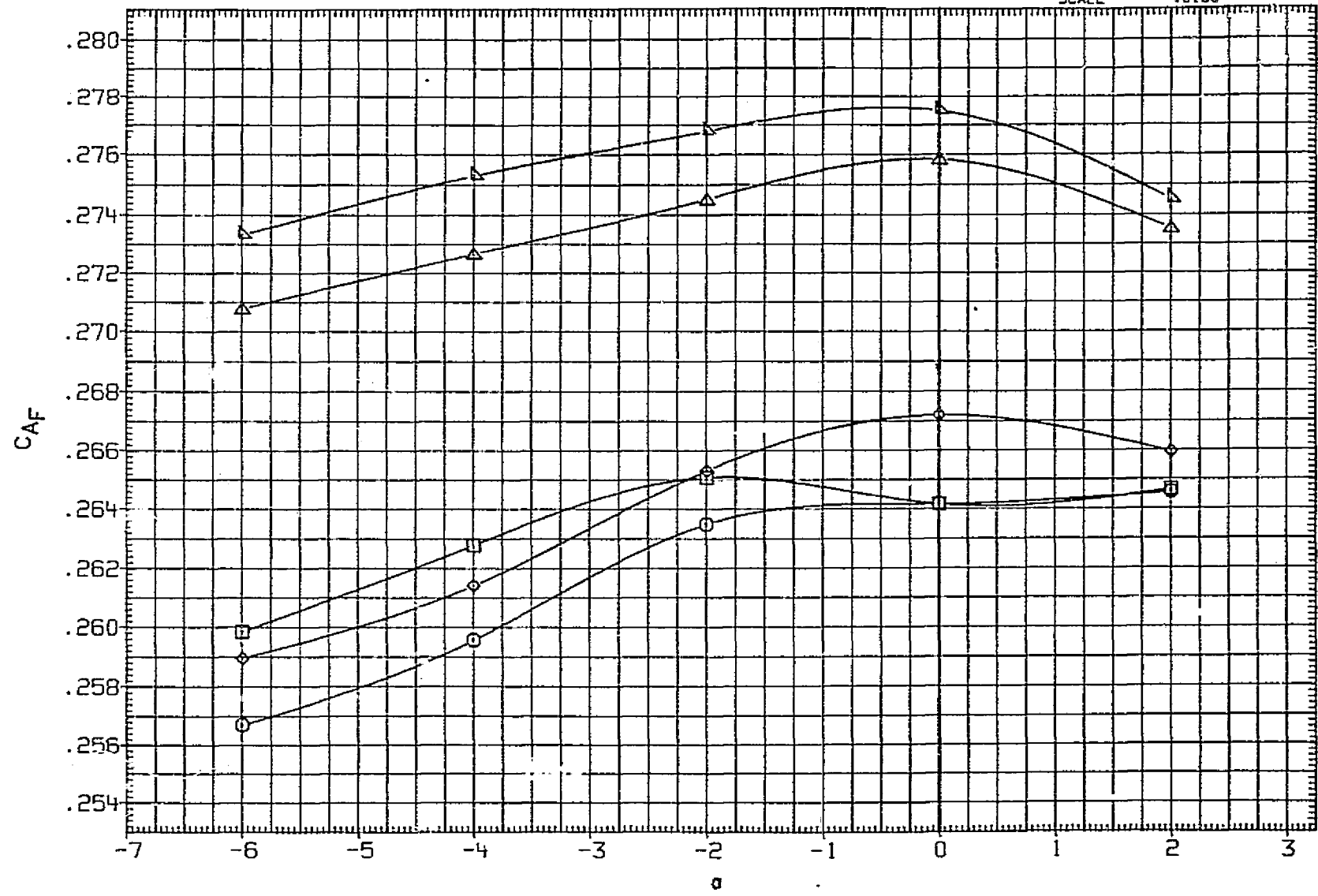


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

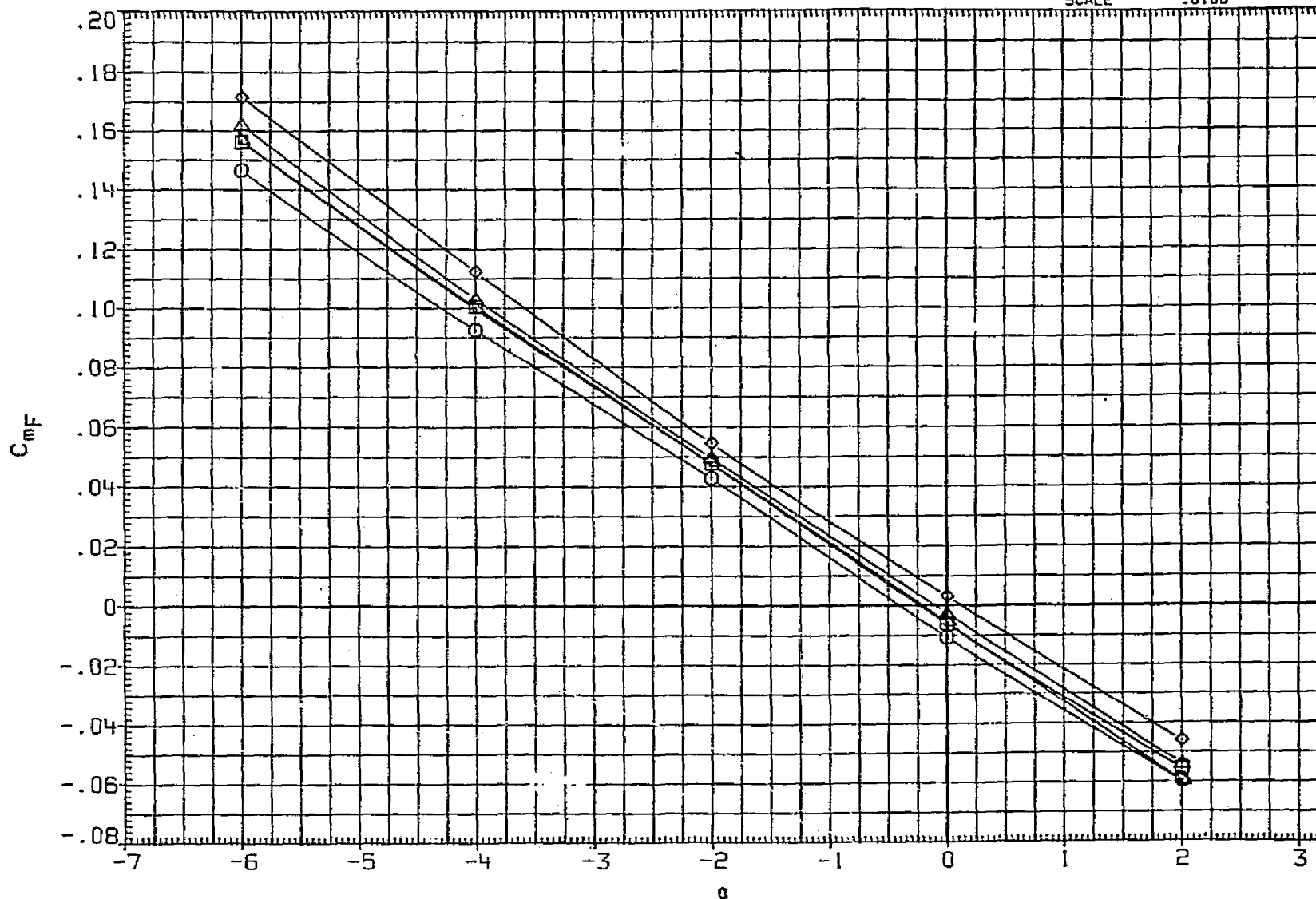


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LG	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

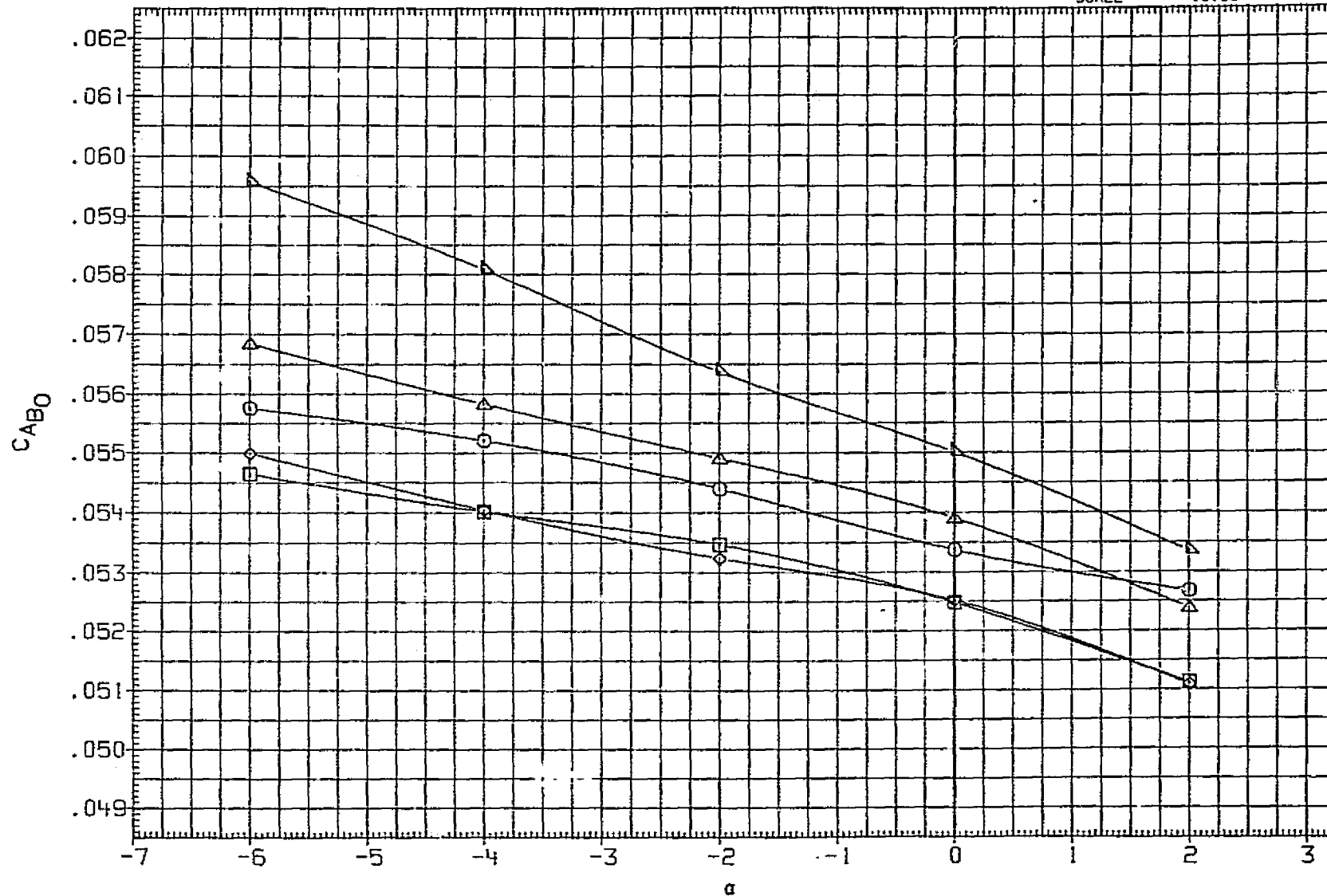


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	97F.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0180	

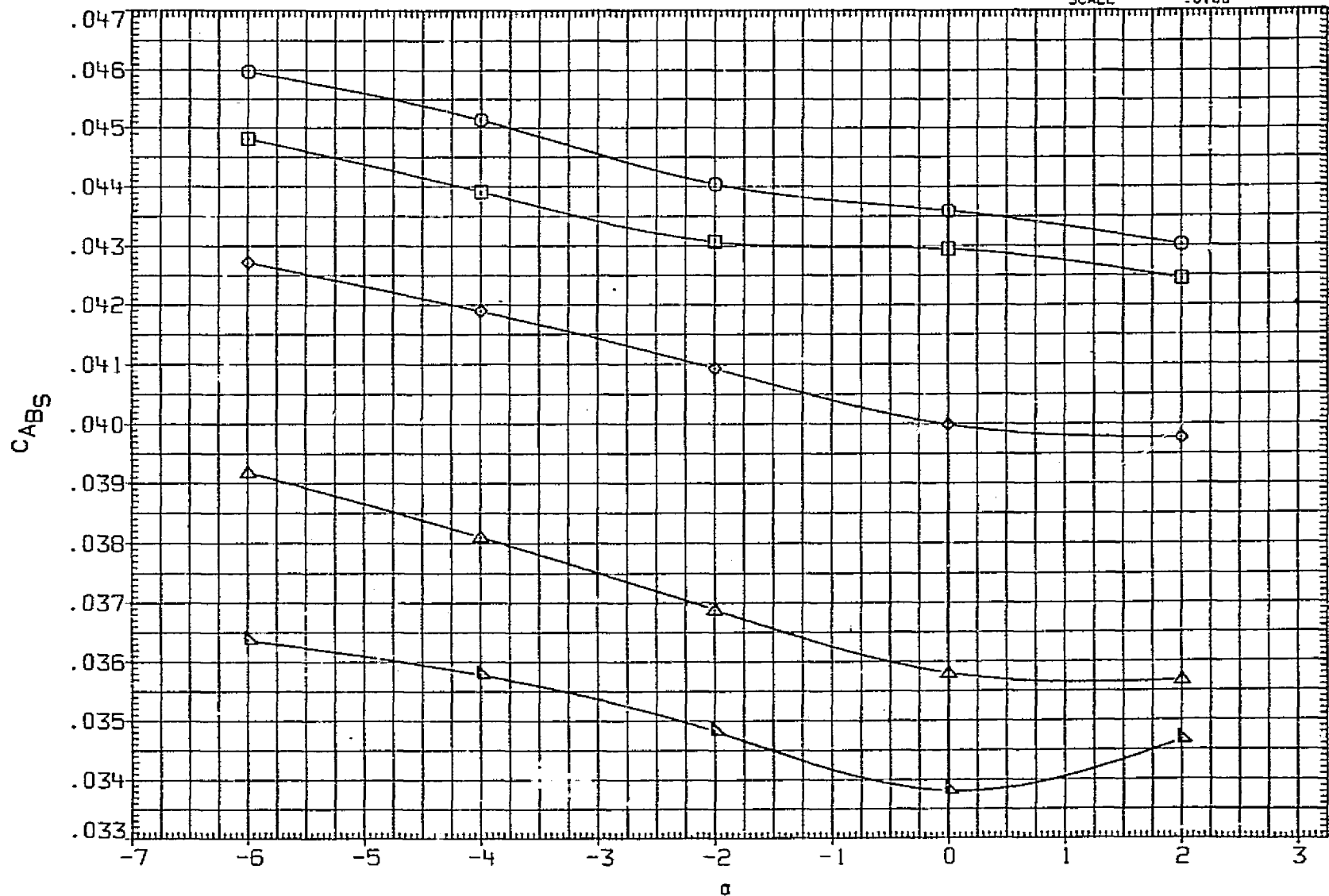


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

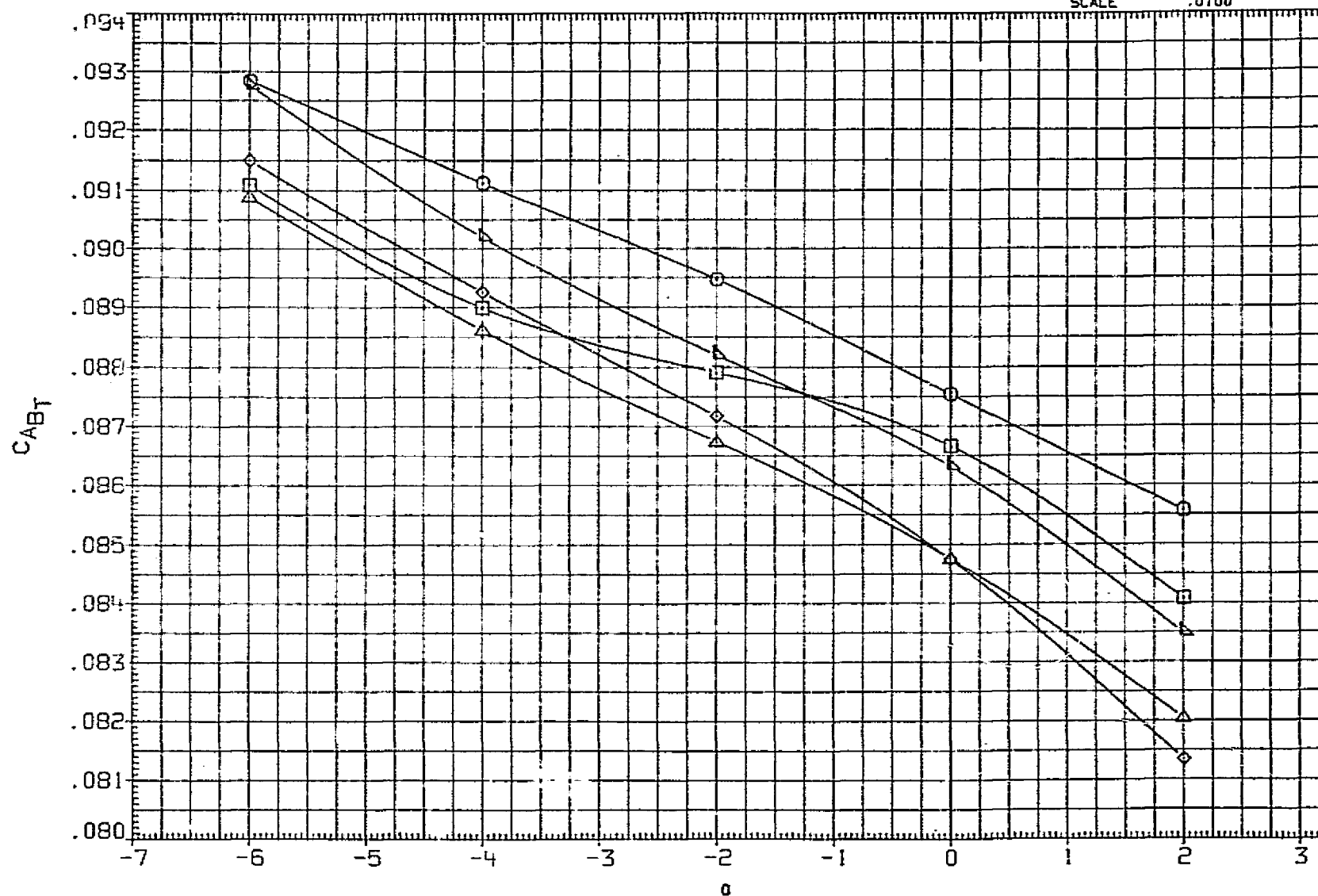


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJB48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.9100	

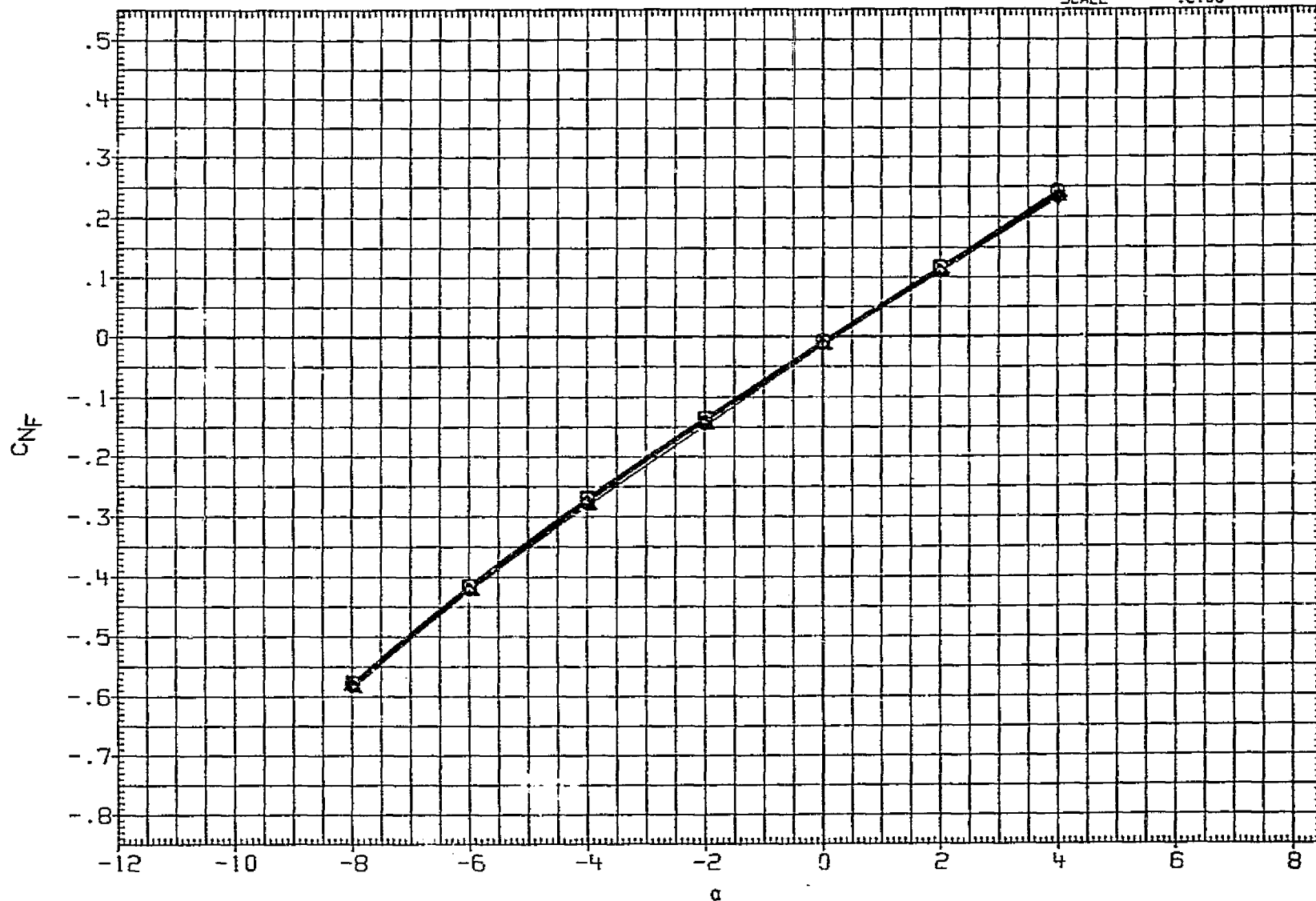


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ847	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJ848	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJ849	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJ850	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJ851	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

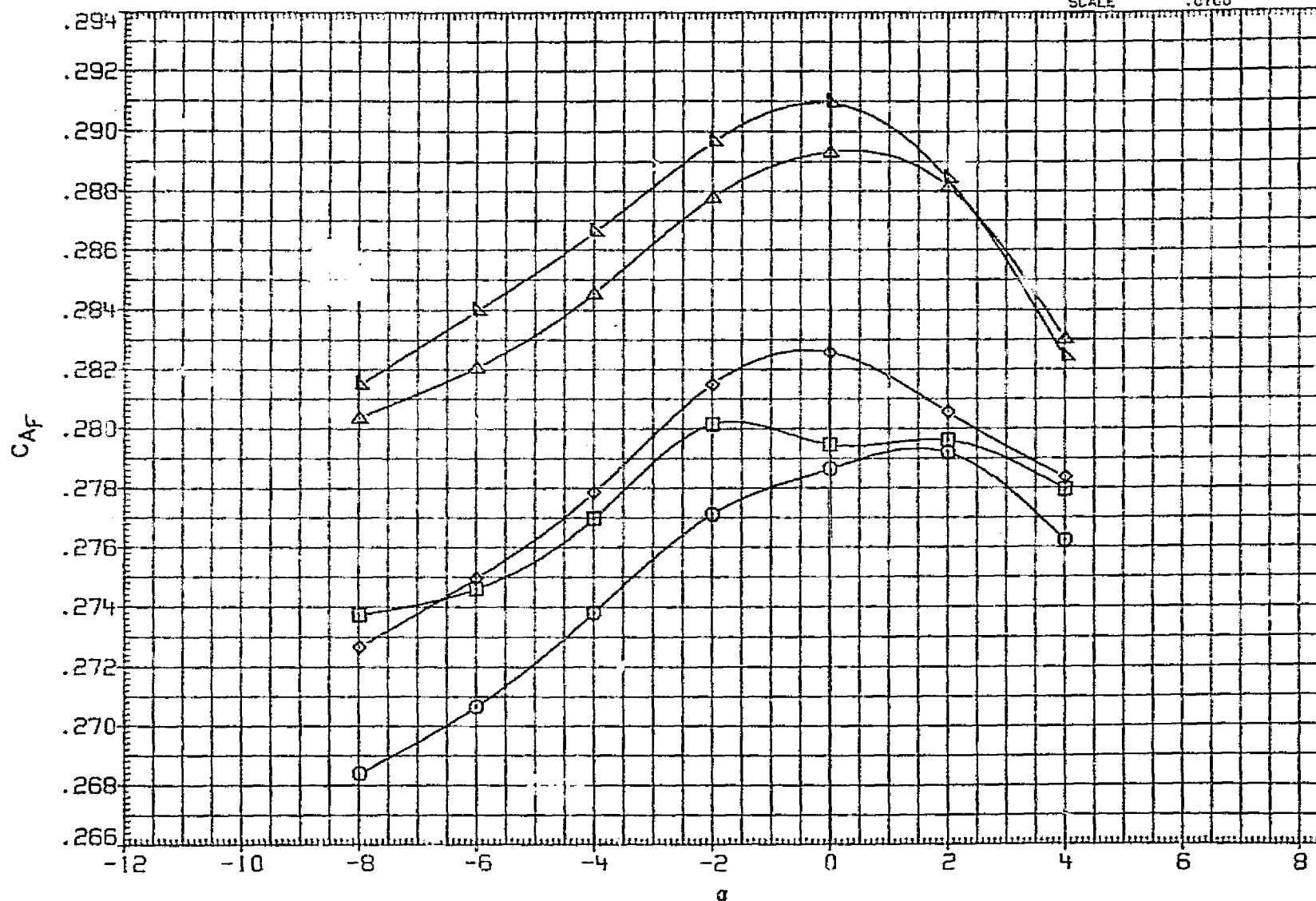


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

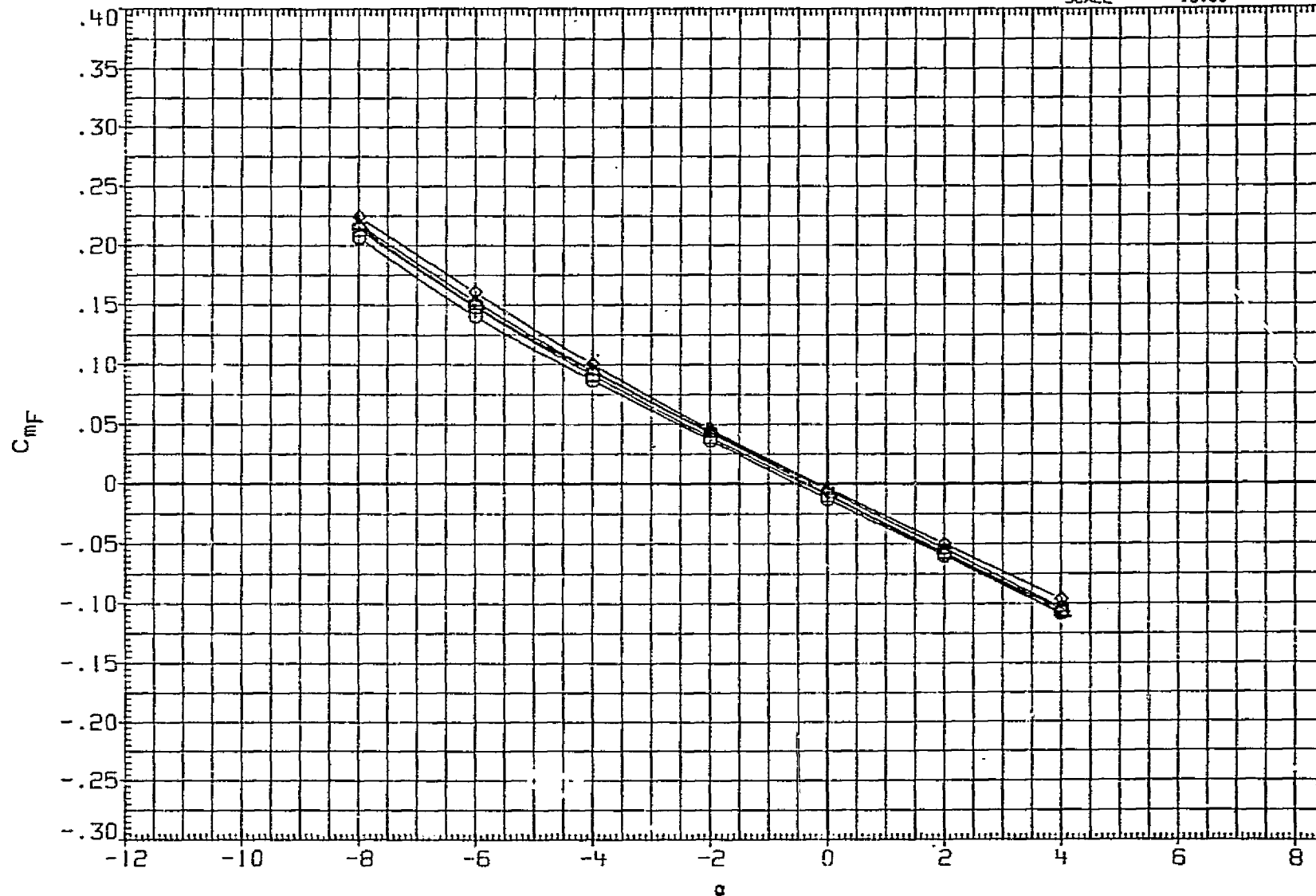


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMAP	976.0000	IN. XT
MJJB51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMAP	.0000	IN. YT
								ZMAP	400.0000	IN. ZT
								SCALE	.0100	

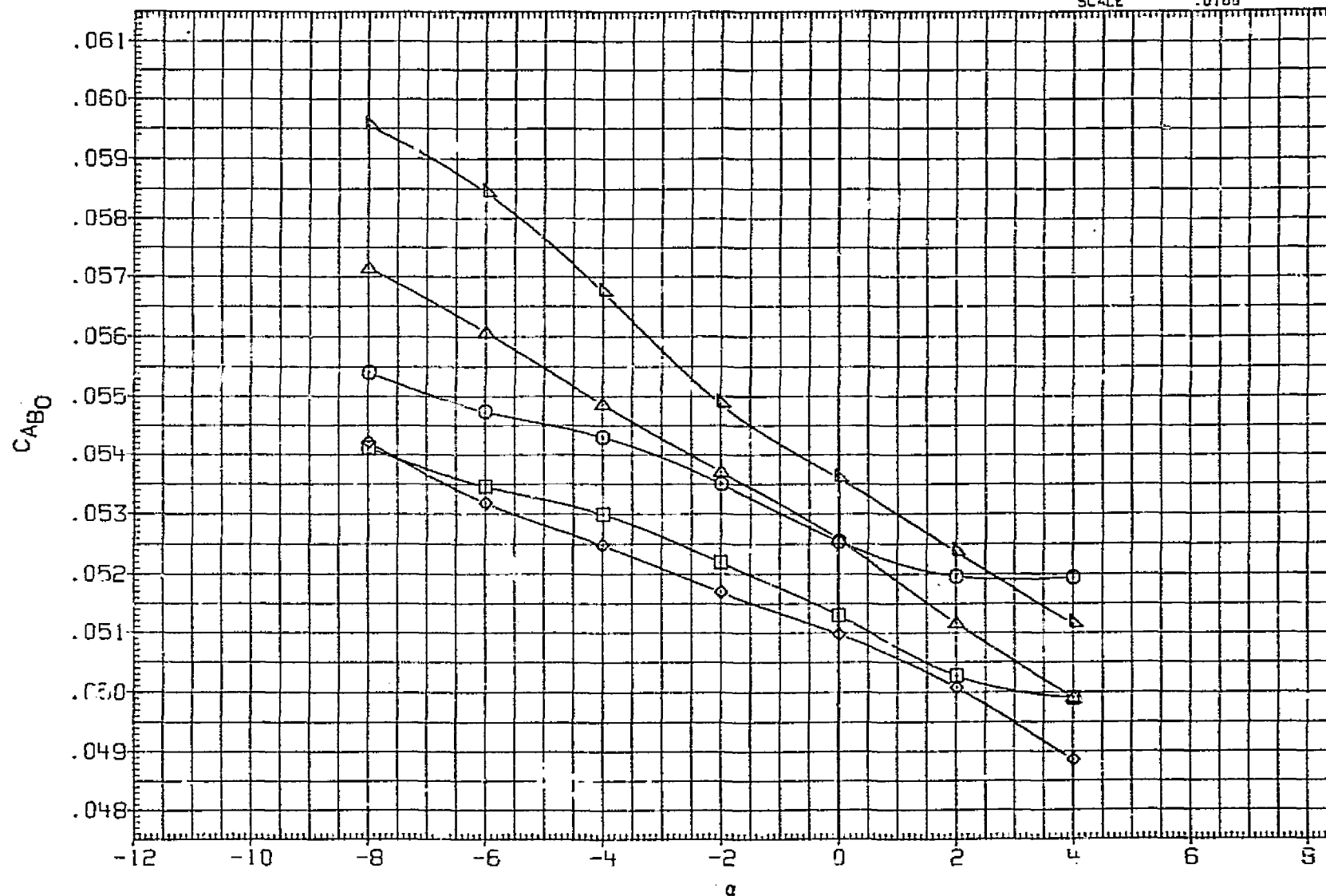


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SO. FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

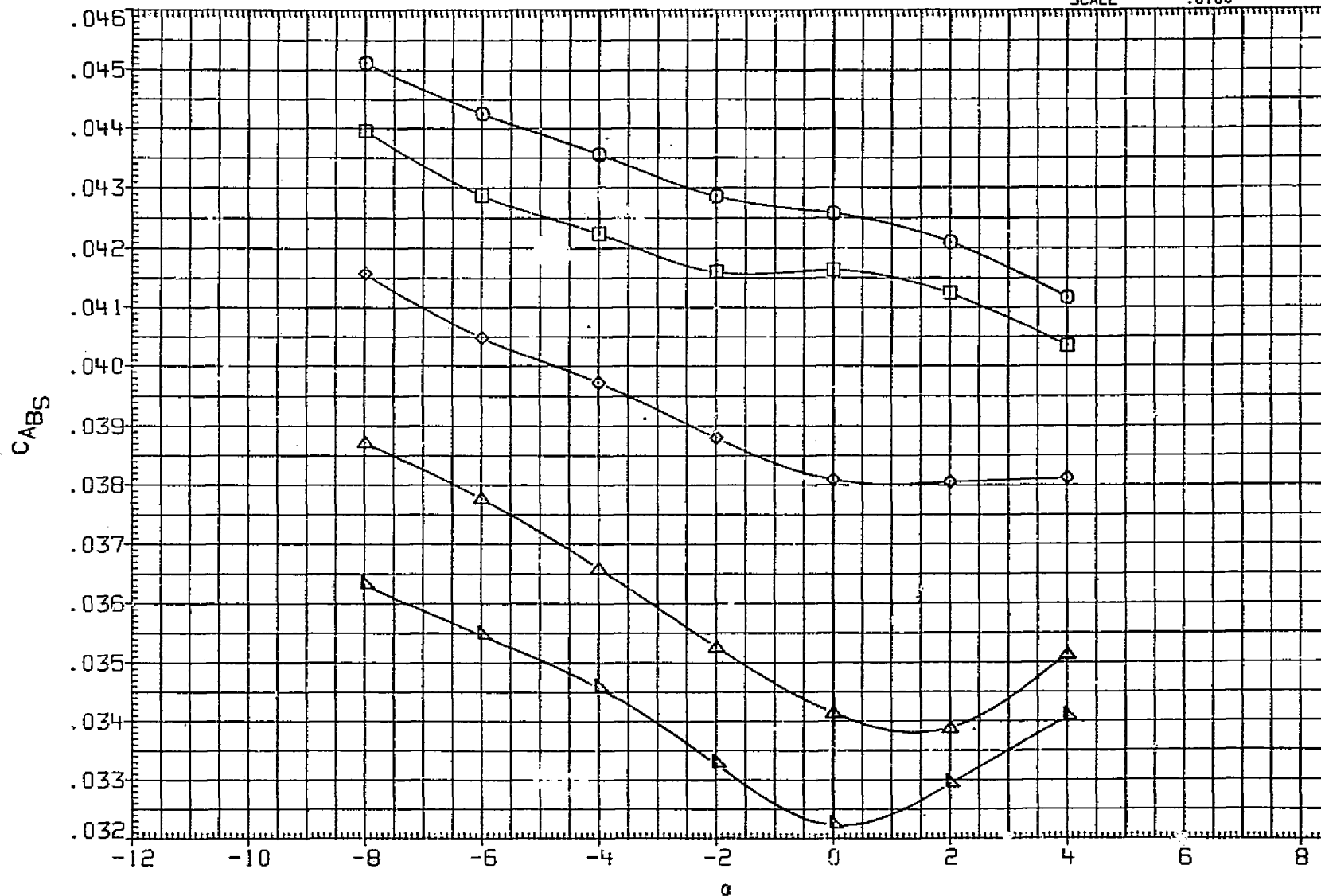


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	6.000	4.000	8.000	4.000	SREF	2690.0000	59. FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

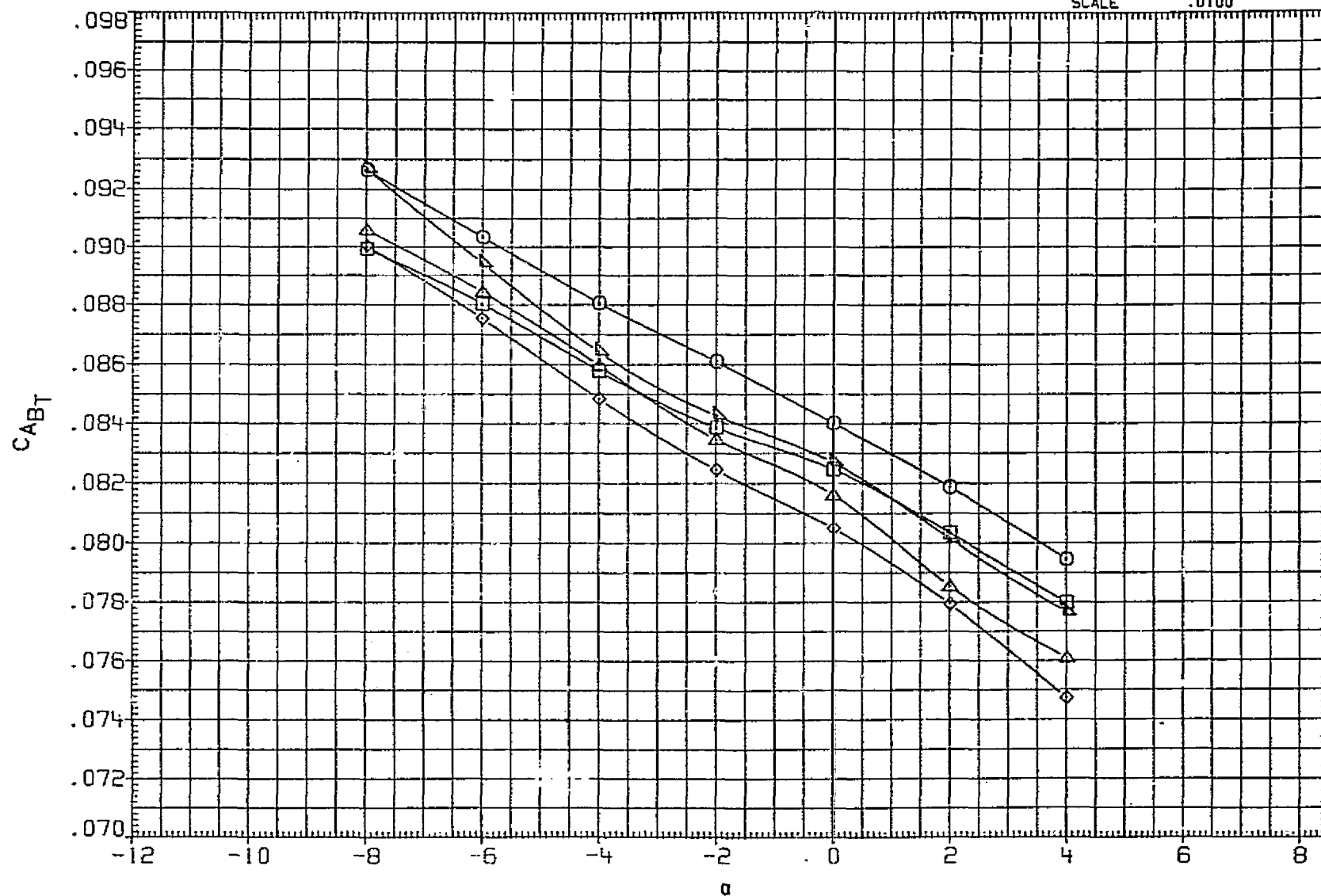


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

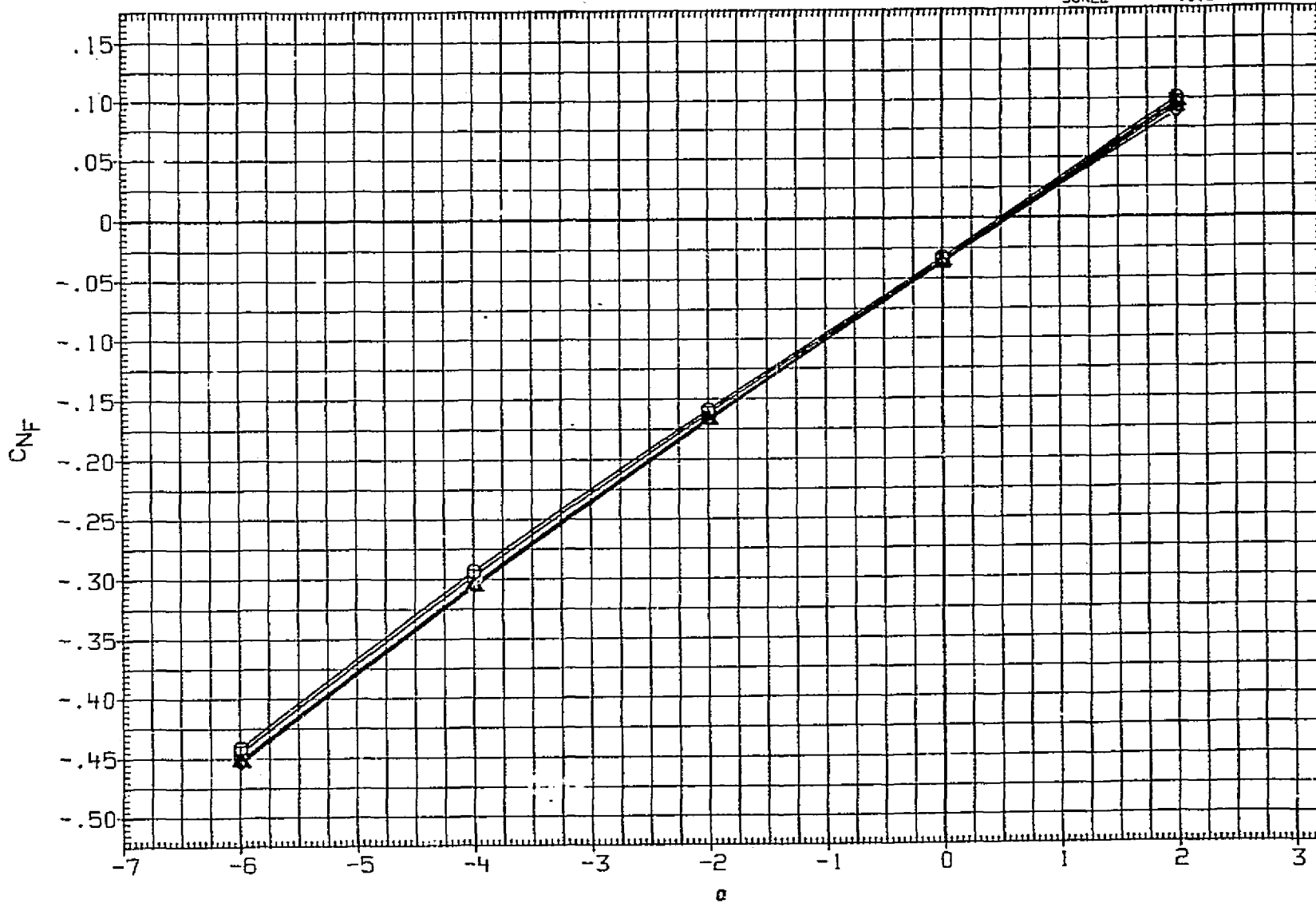


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	SETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50. FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	1 INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	1 INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0800	1 IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	1 IN. YT
								ZMRP	400.0000	1 IN. ZT
								SCALE	.0100	

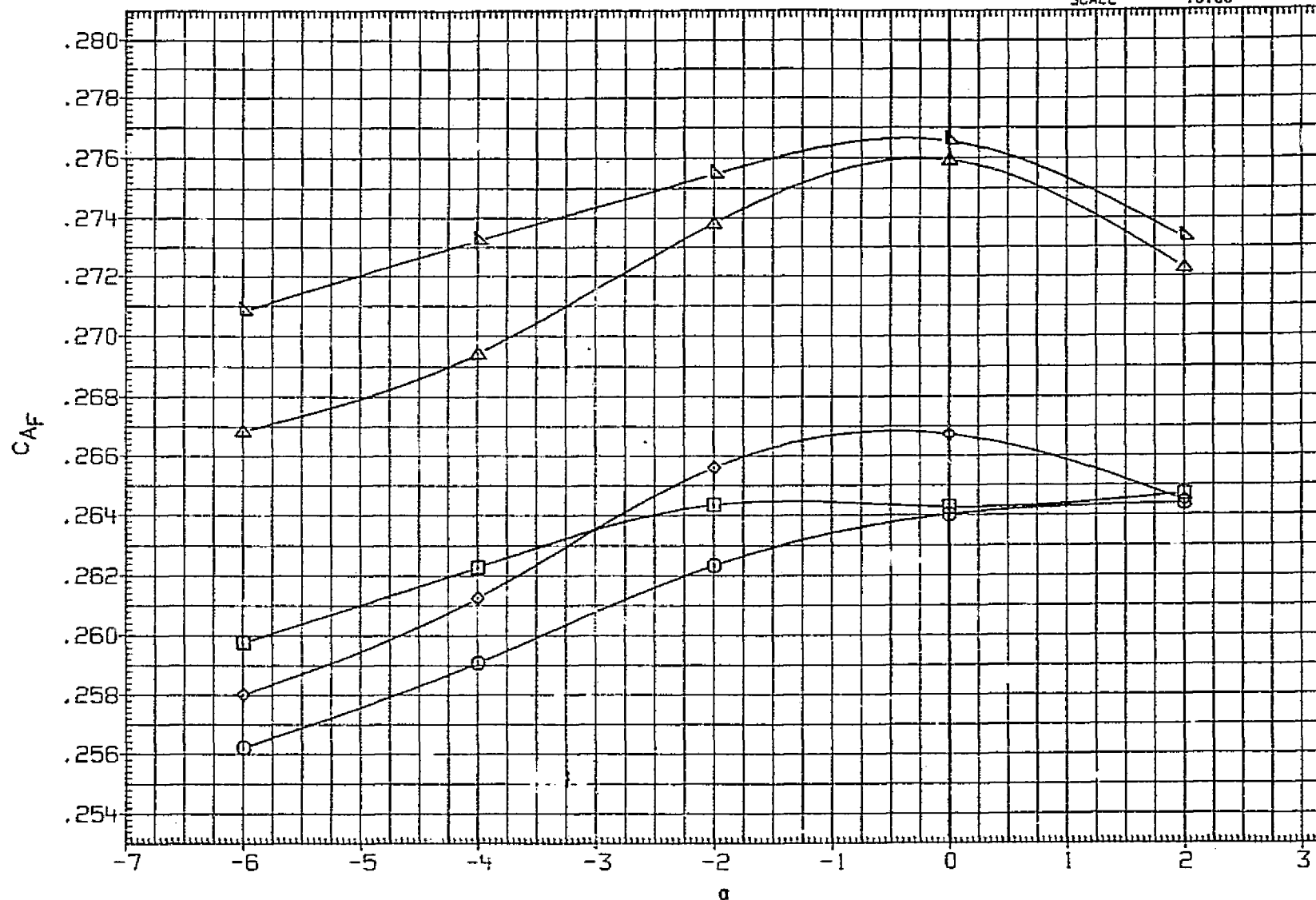


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2390.0000 SQ.FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000 INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000 INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000 IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

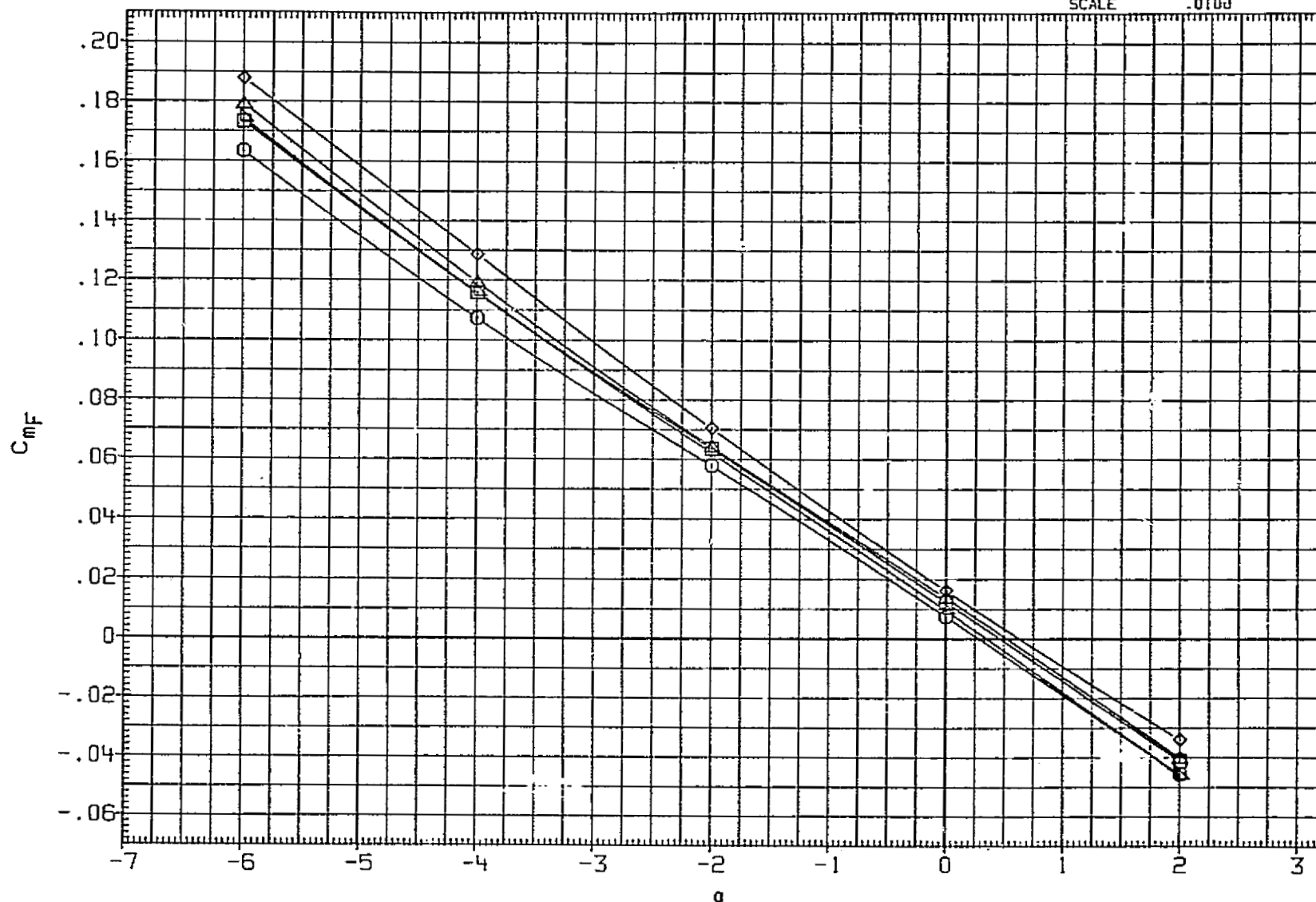


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50. FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	SREF	1290.3000	INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	



FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LD	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

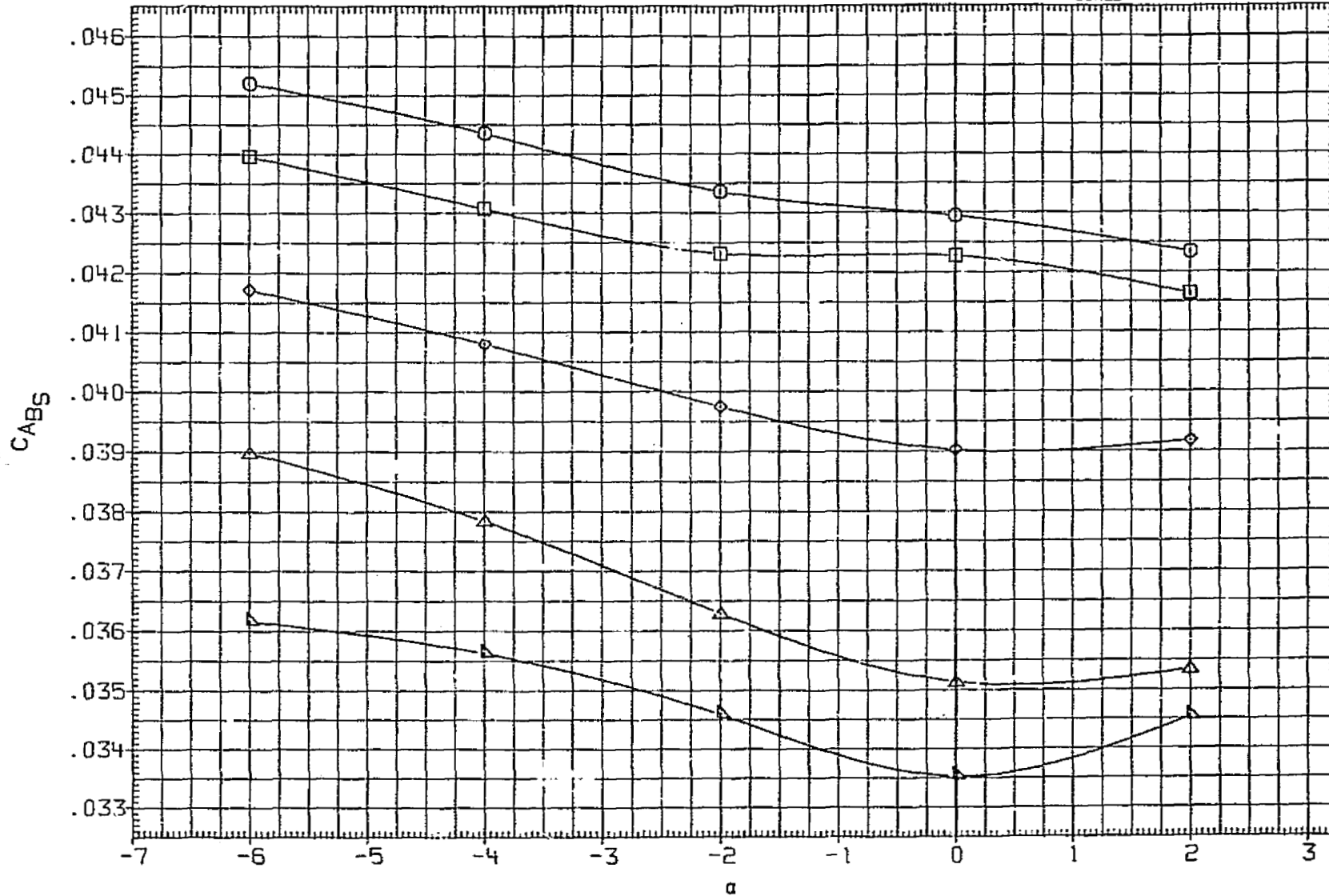


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB52	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000 SQ. FT.
MJJB53	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000 INCHES
MJJB54	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	SREF	1290.3000 INCHES
MJJB55	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000 IN. XT
MJJB56	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000 IN. YT
							ZMRP	400.0000 IN. ZT
							SCALE	.0100

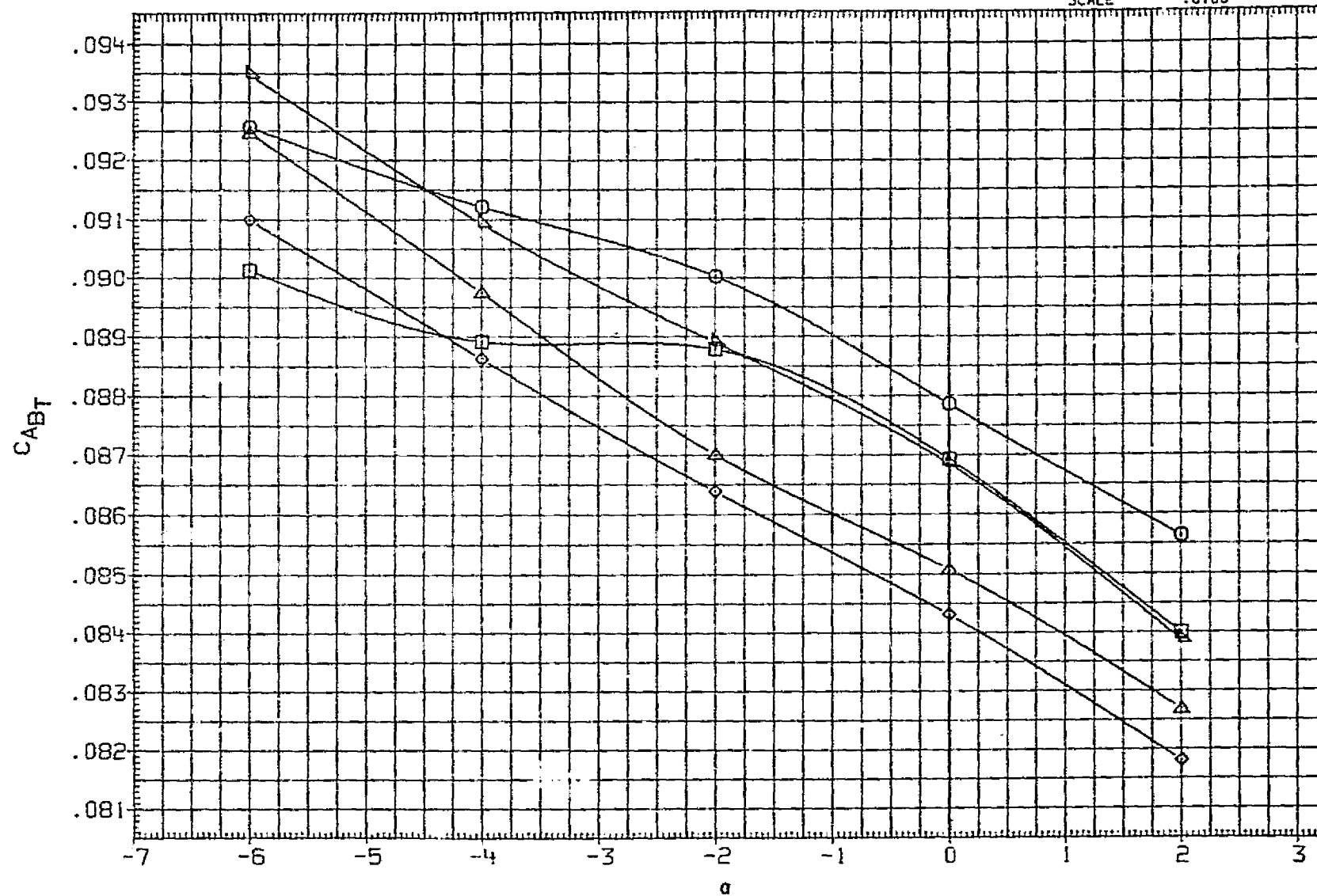


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-R1	ELV-RD	REFERENCE INFORMATION
MJB52	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF 2690.0000 SQ.FT.
MJB53	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF 1290.3000 INCHES
MJB54	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF 1290.3000 INCHES
MJB55	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	YMRP 976.0000 IN. XT
MJB56	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP .0000 IN. YT
							ZMPP 400.0000 IN. ZT
							SCALE .0100

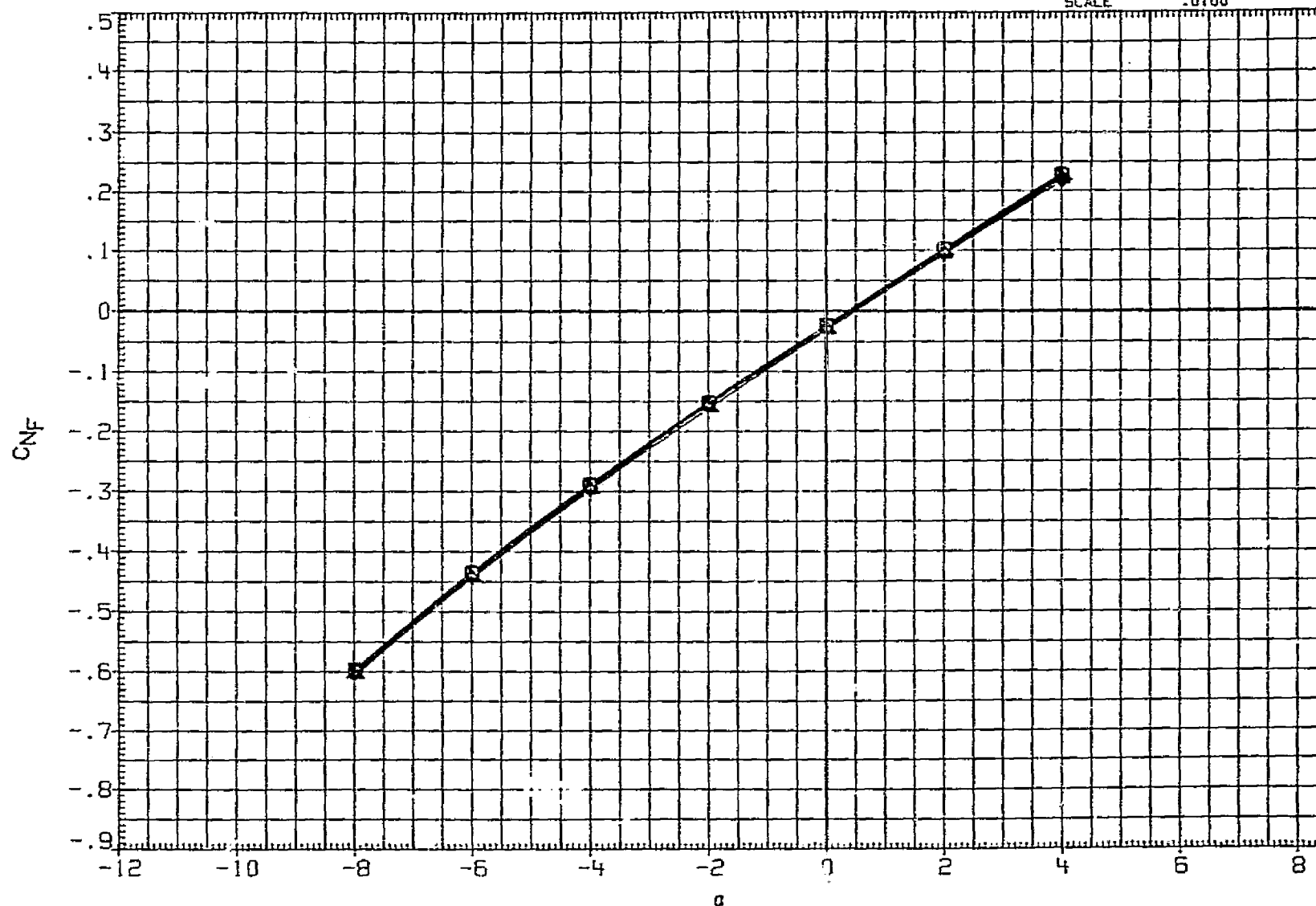


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT	
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

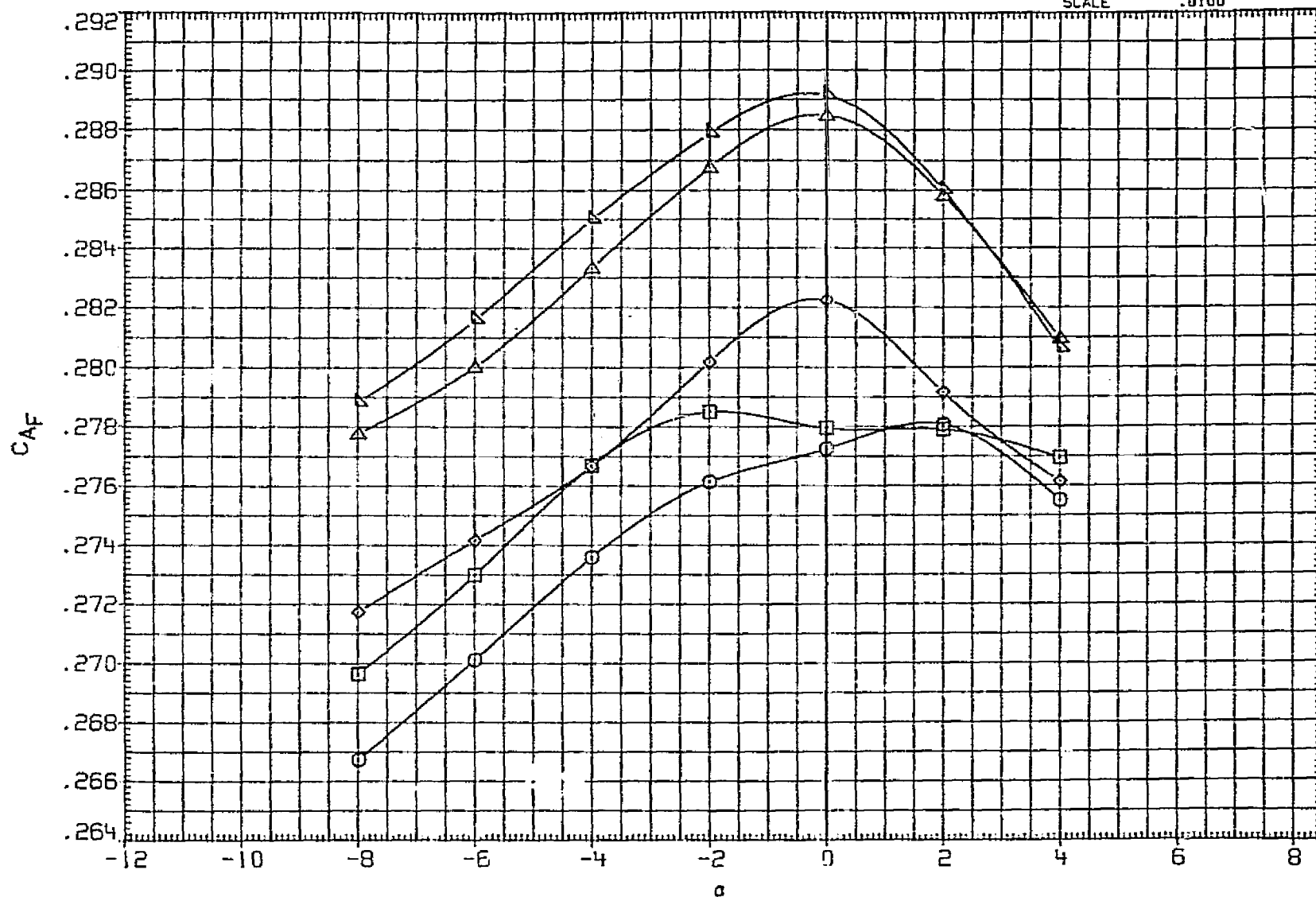


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

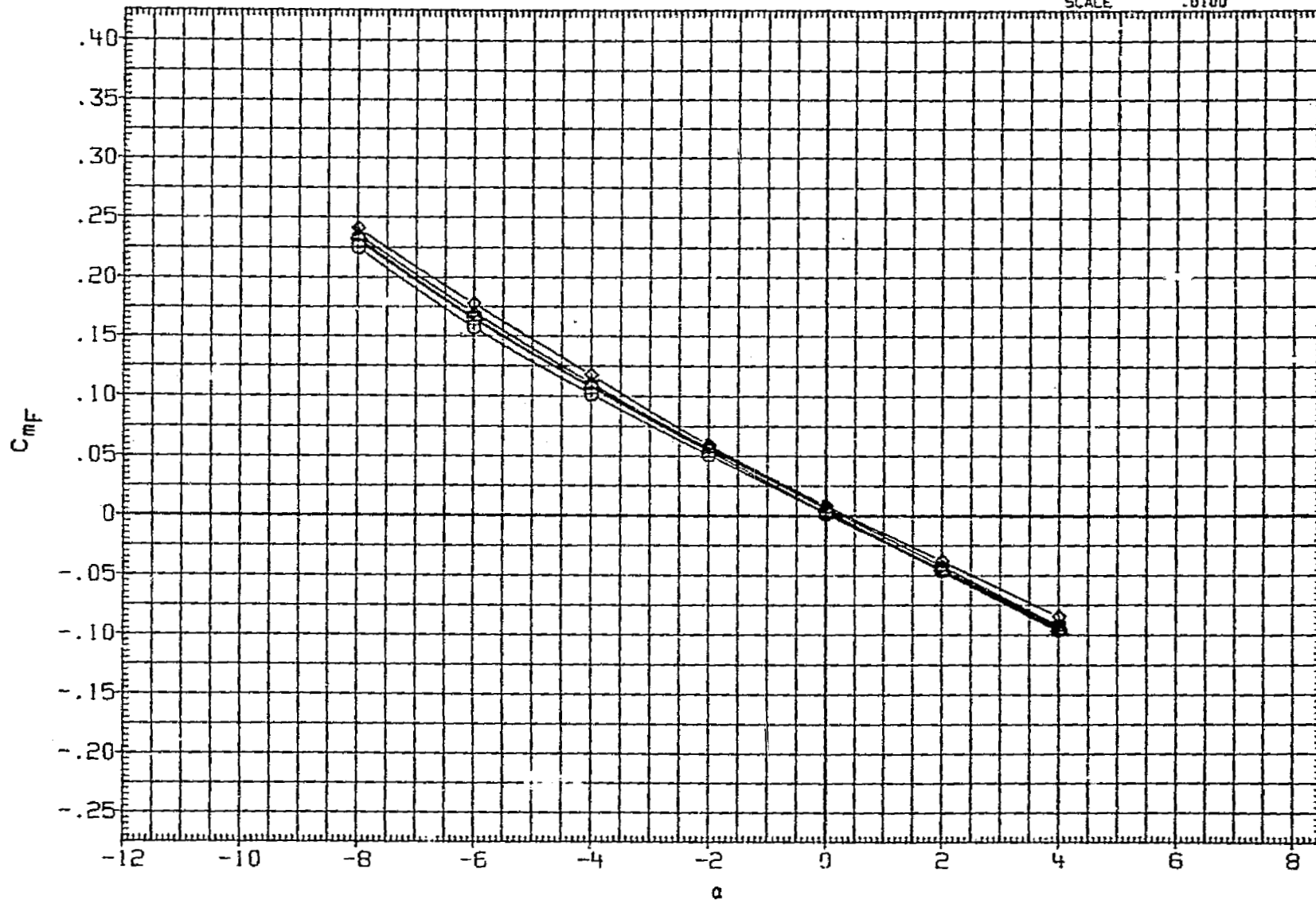


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50. FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

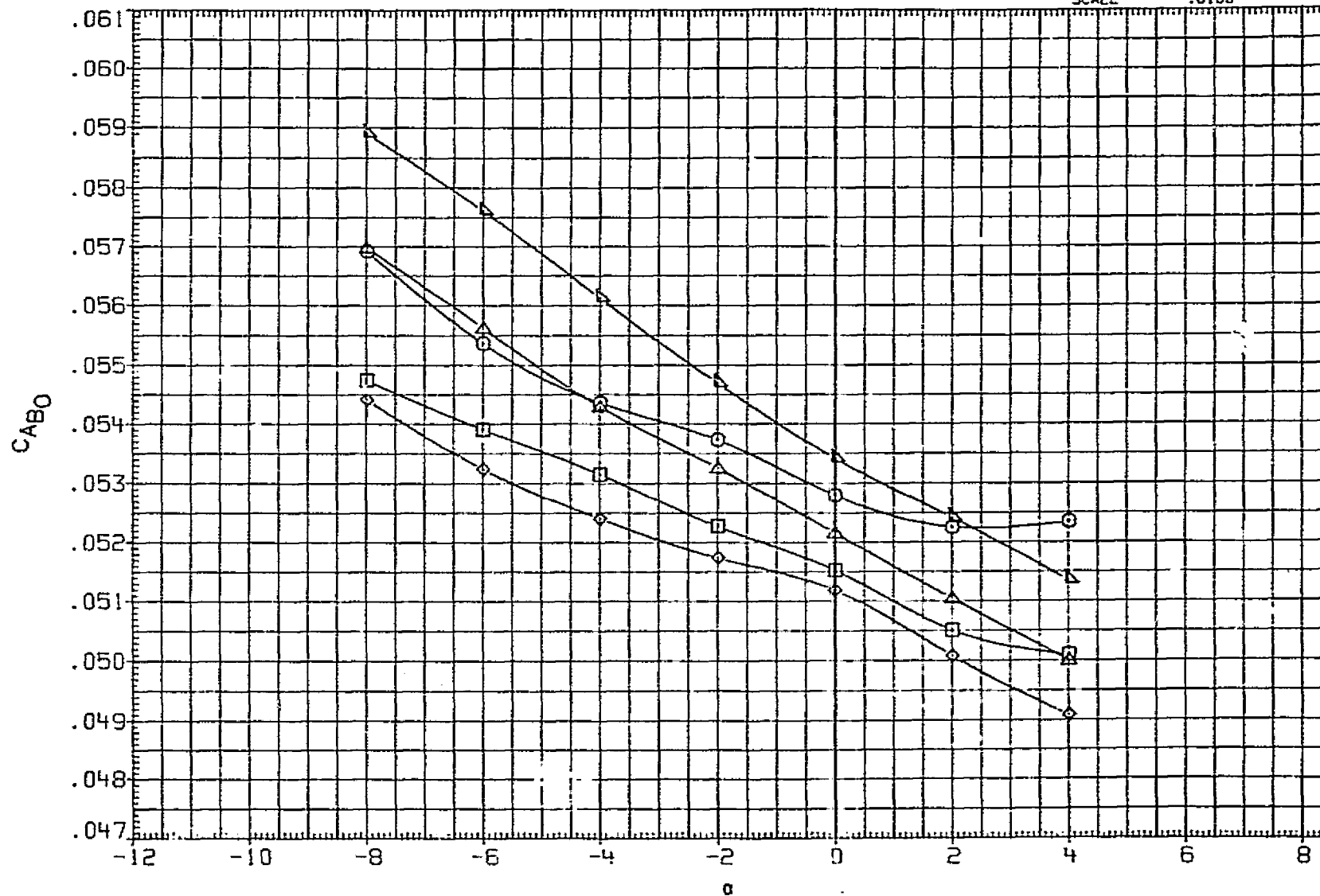


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
HJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50. FT.
HJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
HJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
HJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XHRP	976.0000	IN. XT
HJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	3.000	-5.000	YHRP	.0000	IN. YT
								ZHRP	400.0000	IN. ZT
								SCALE	.0100	

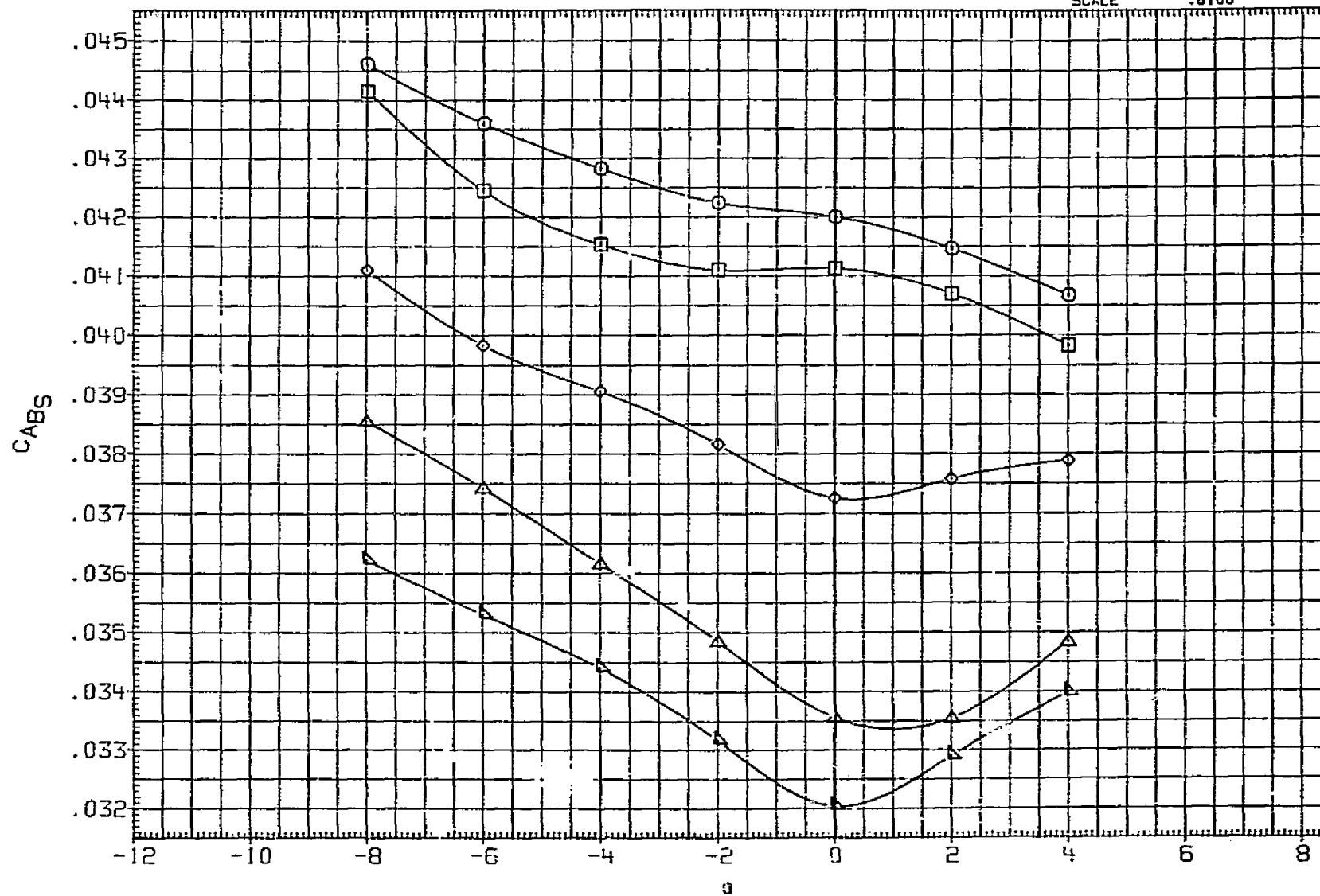


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2630.0000 SQ.FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000 INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000 INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000 IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

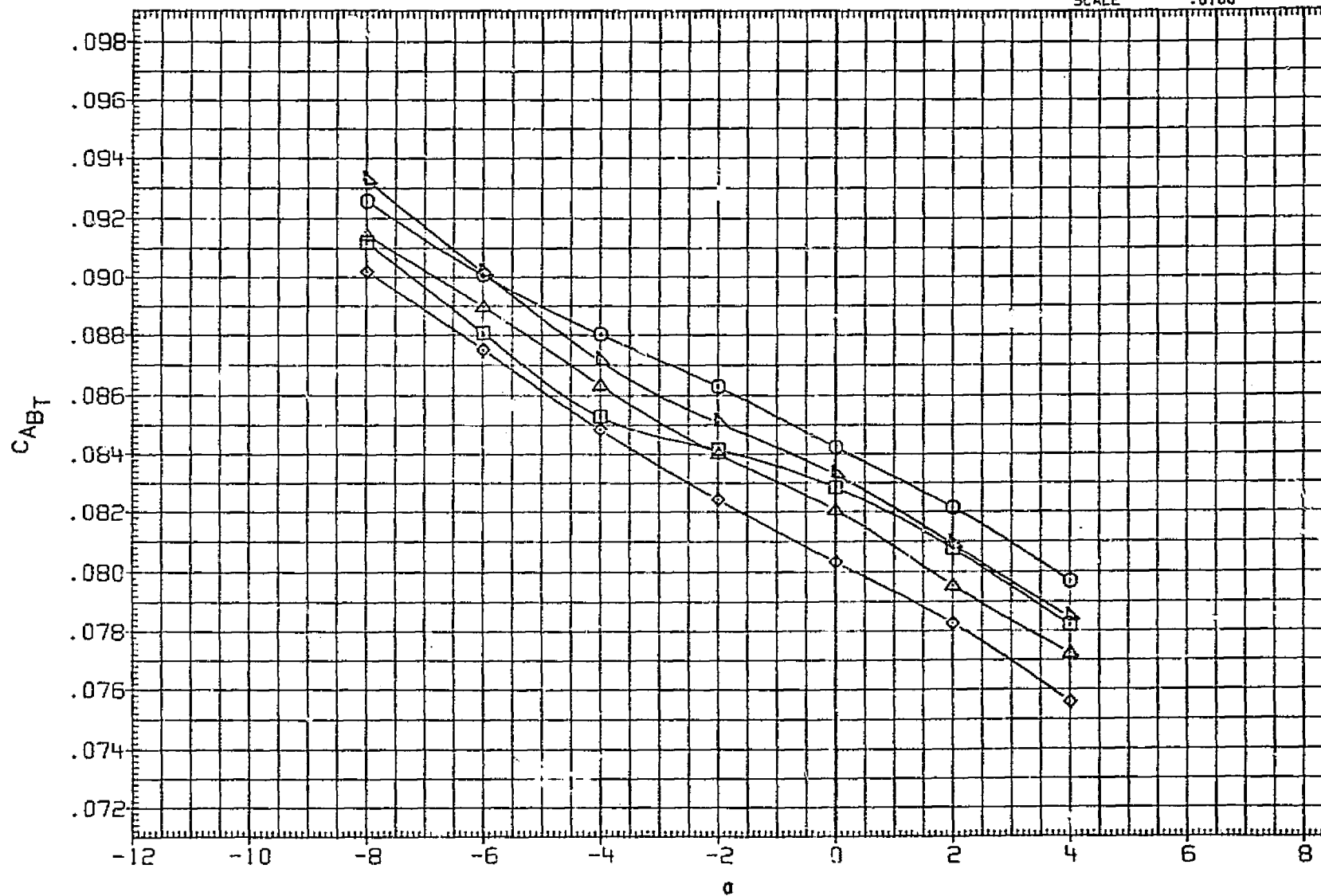


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ857	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50. FT.
MJJ858	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJ859	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJ861	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJ862	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

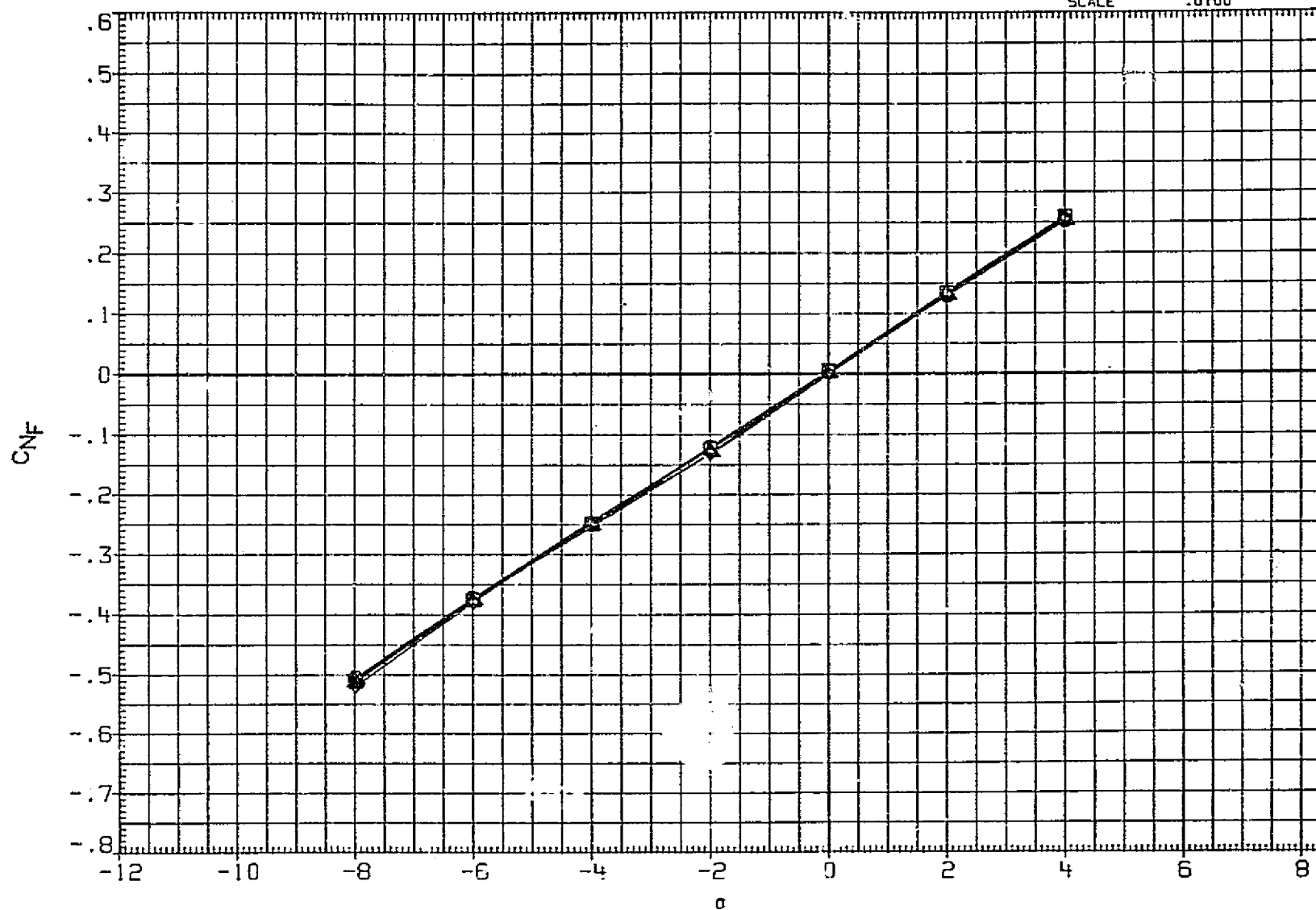


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	90.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

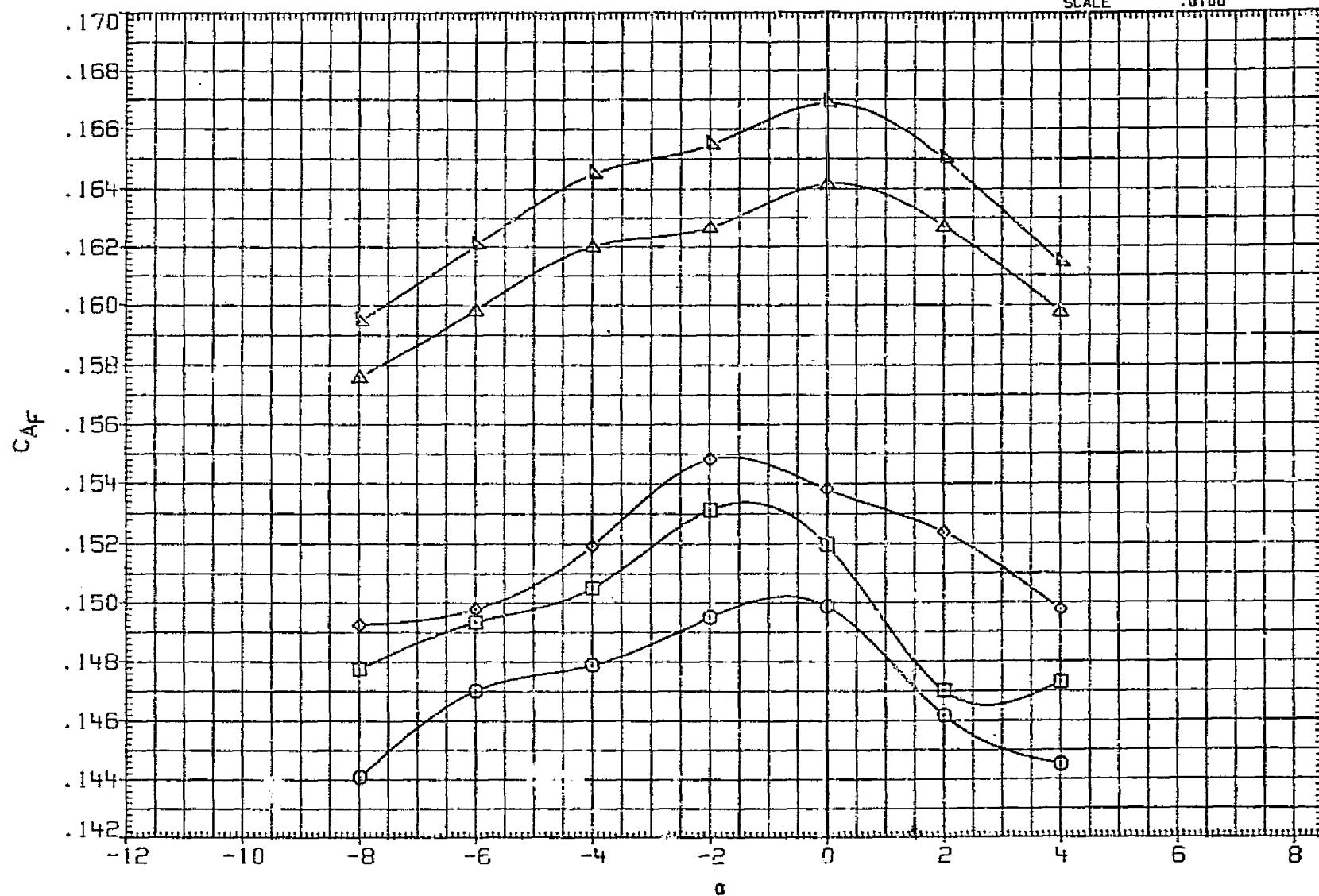


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJB58	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

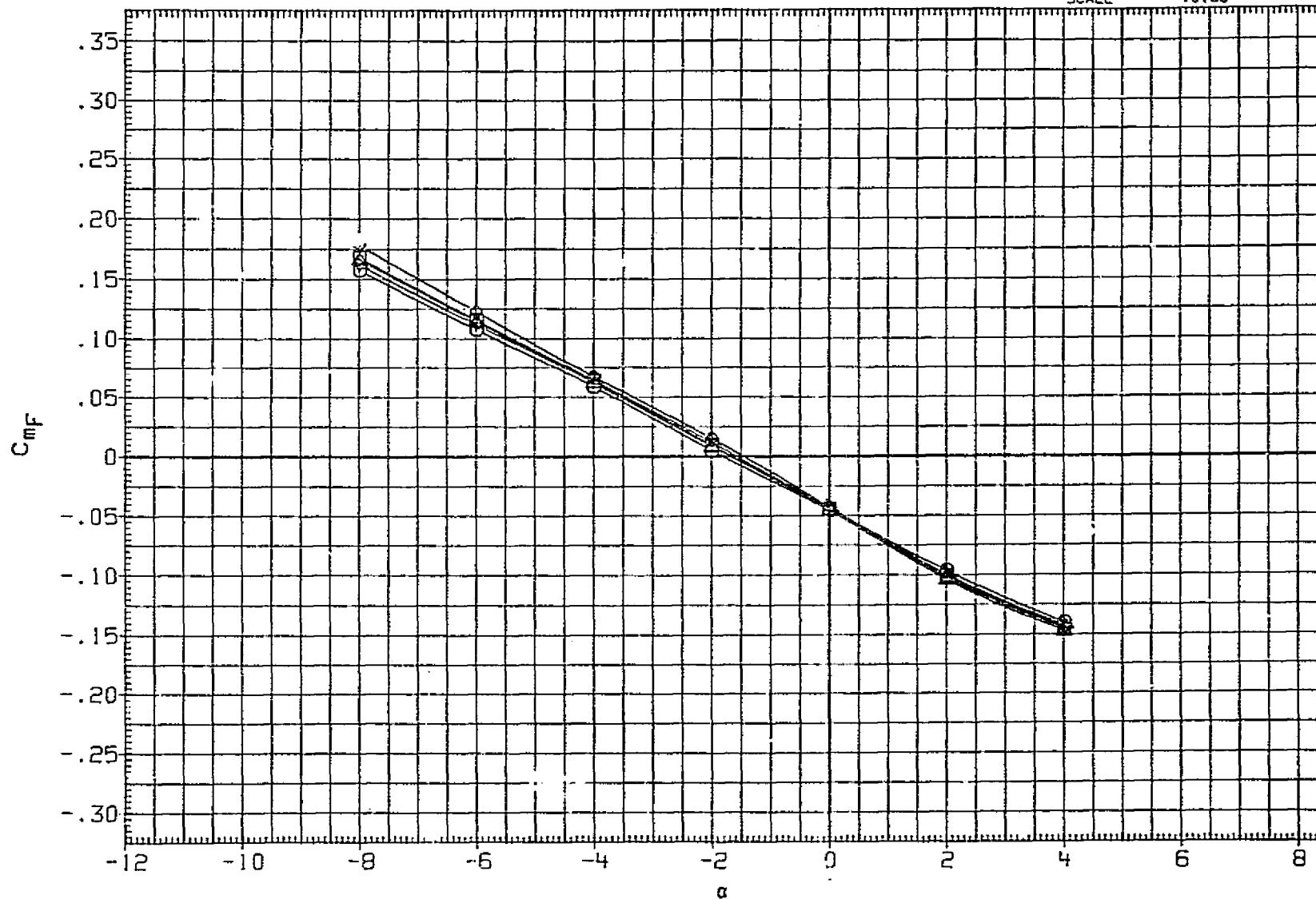


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50. FT.
MJJB58	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN.
MJJB62	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN.
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

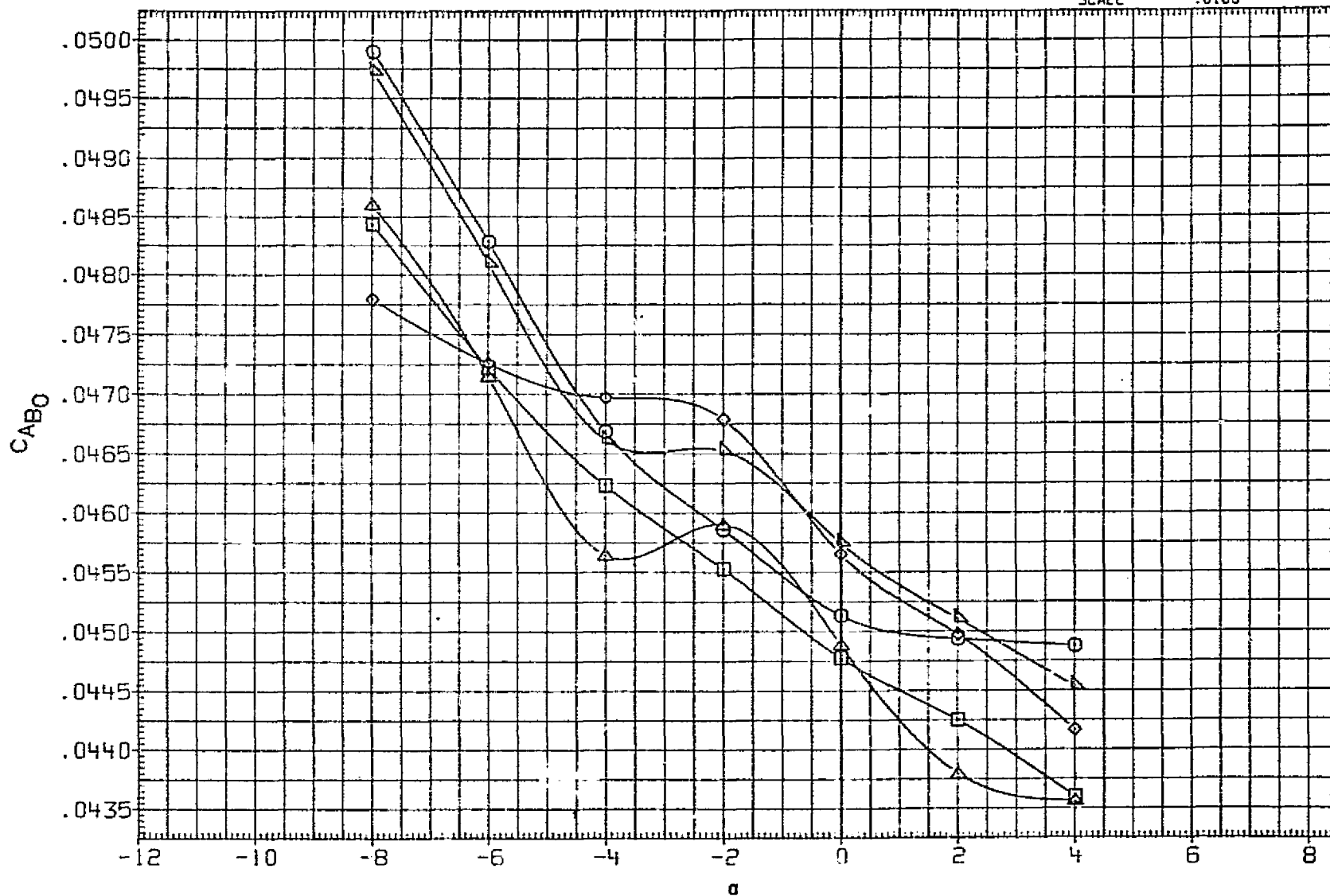


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ857	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJ858	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJ859	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJ861	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJ862	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

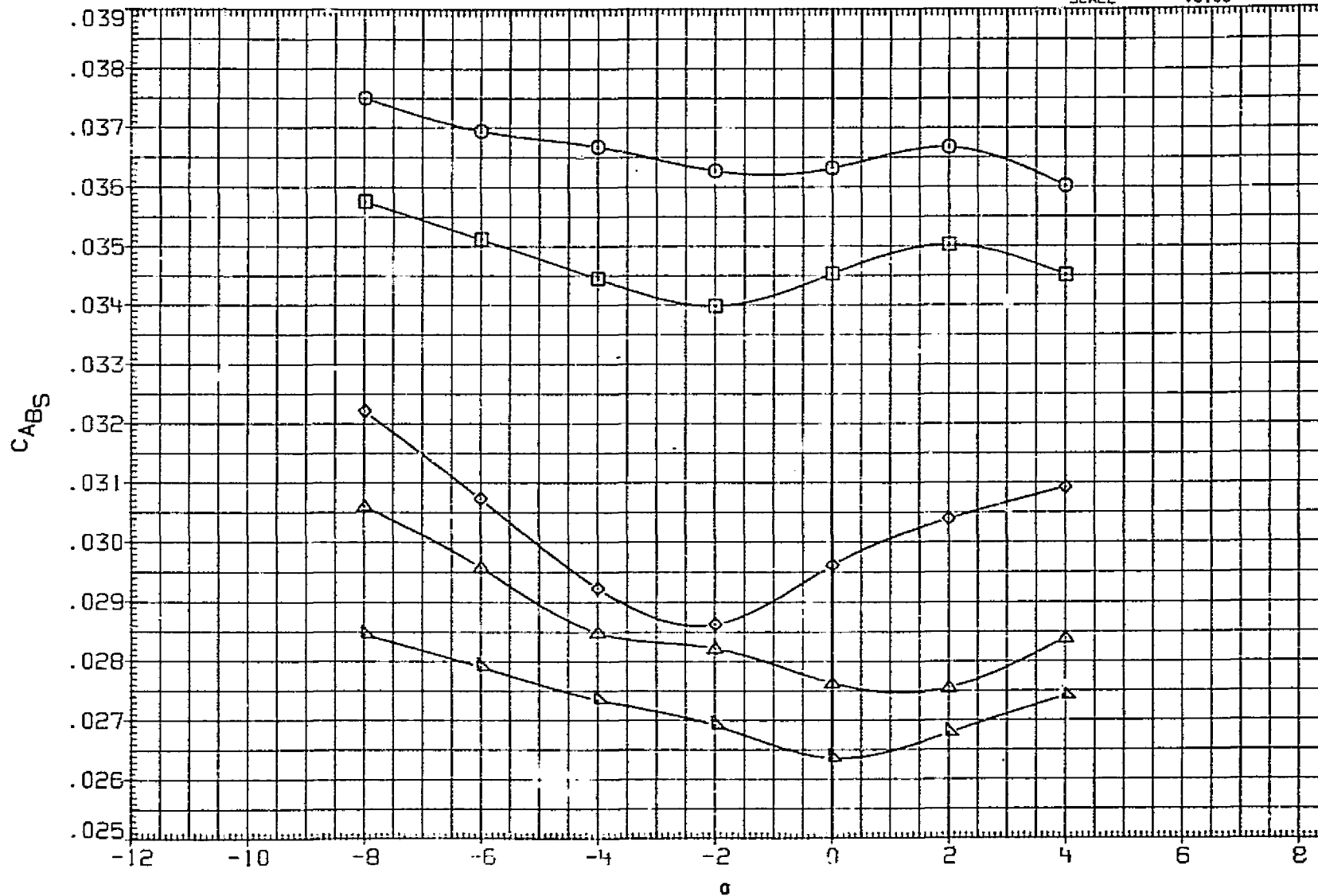


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	90.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	9.000	9.000	9.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

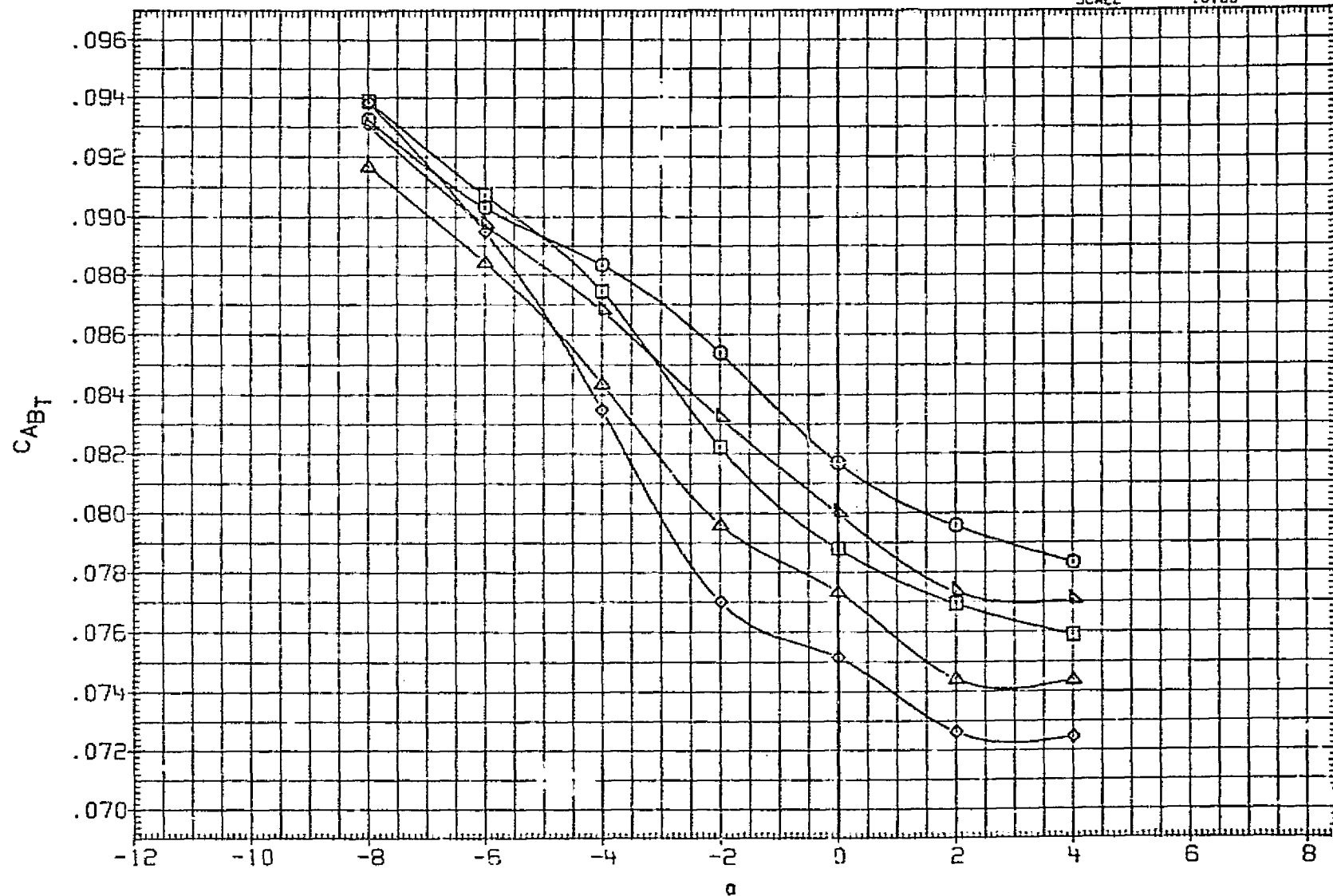


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LD	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.900	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

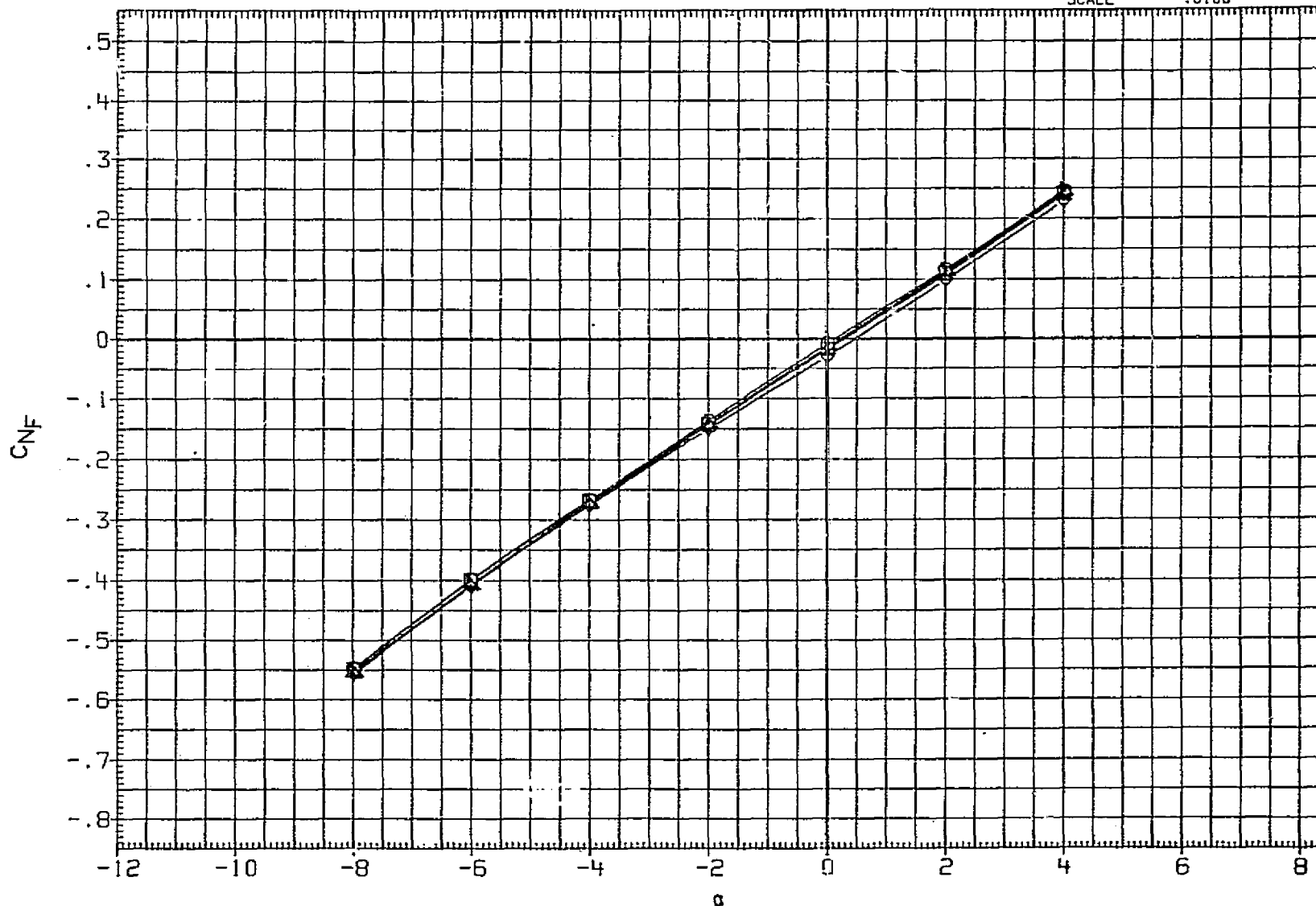


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SO.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	SREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

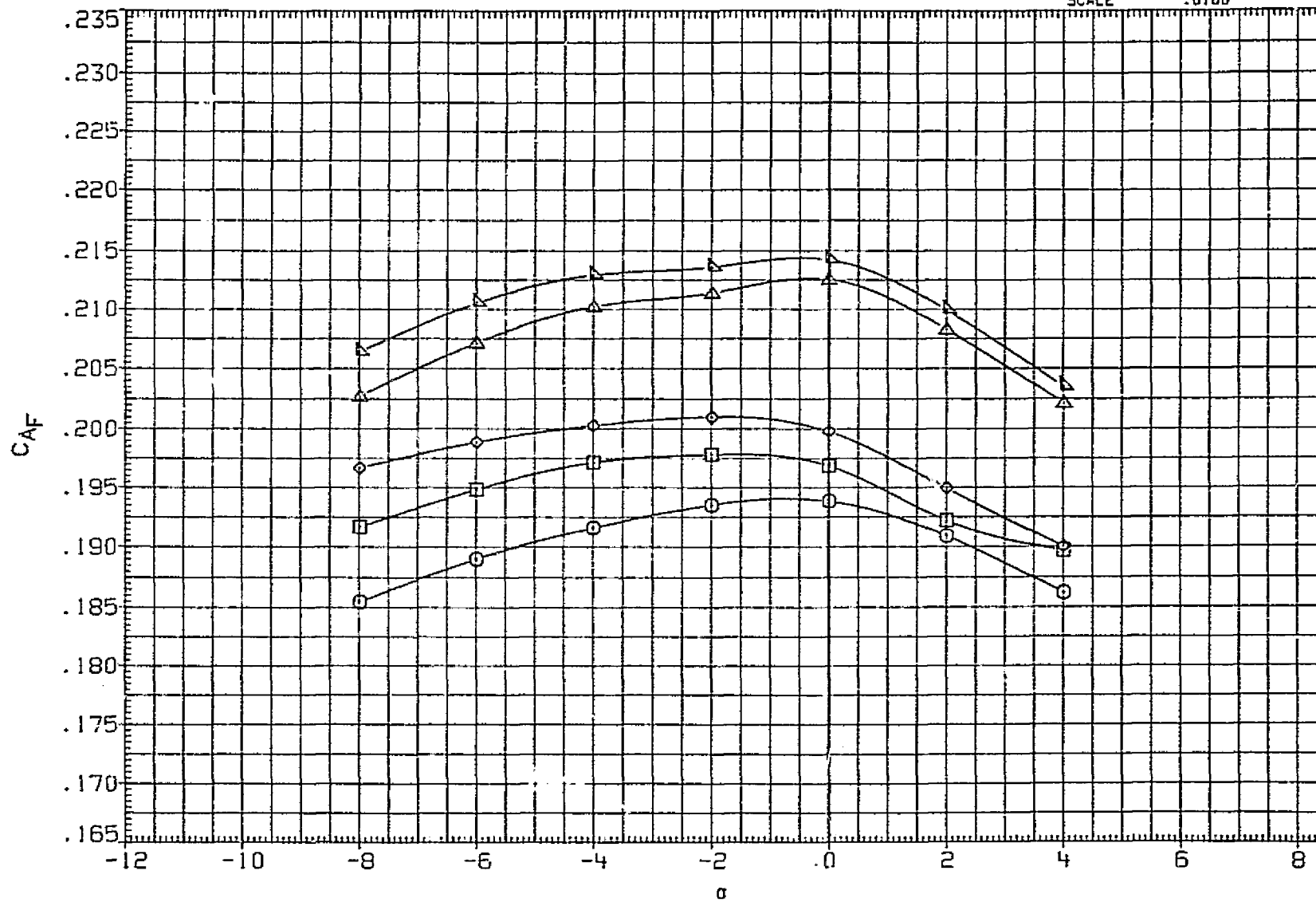


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ857	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJ858	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJ859	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJ861	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJ862	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

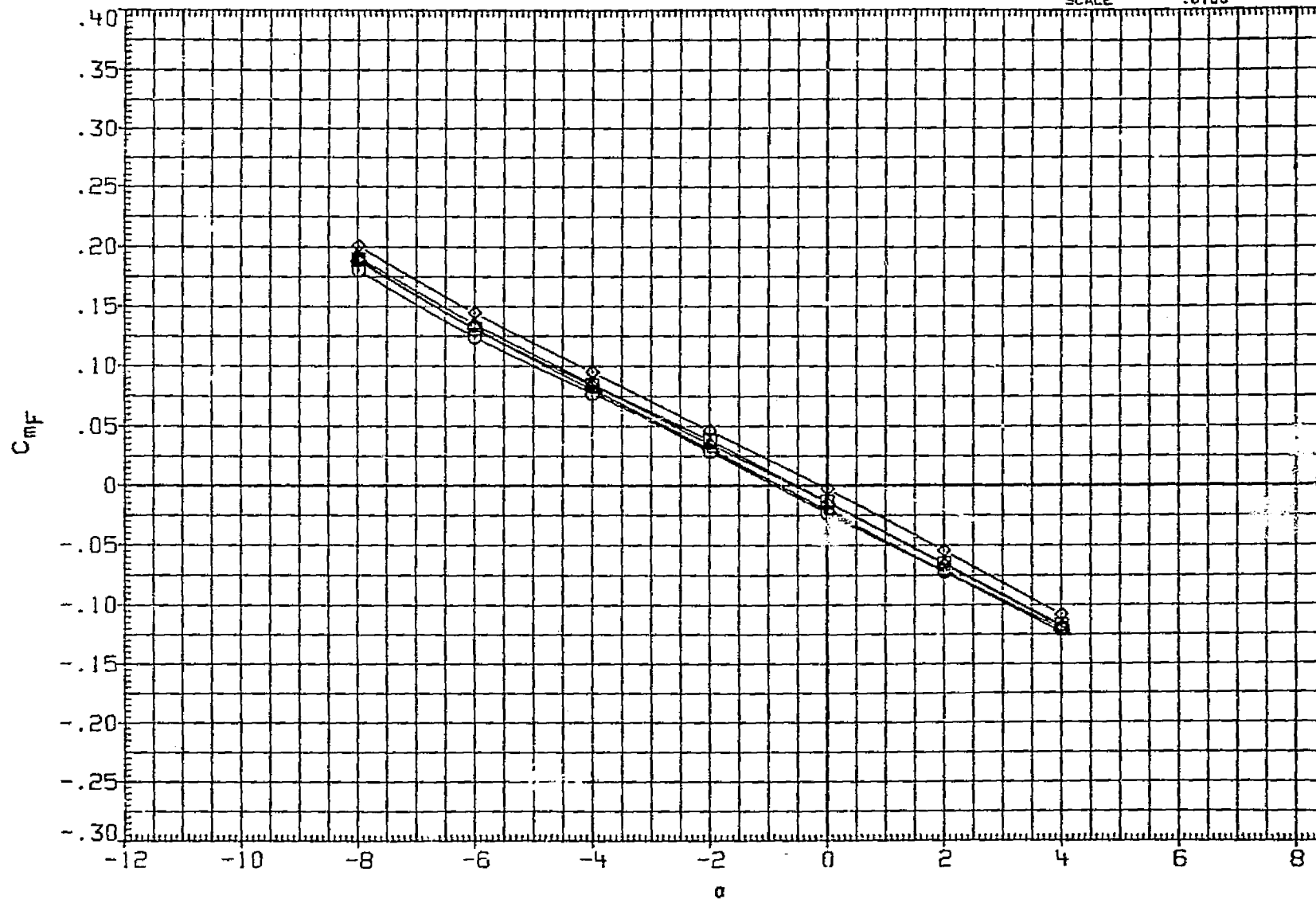


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	52. FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

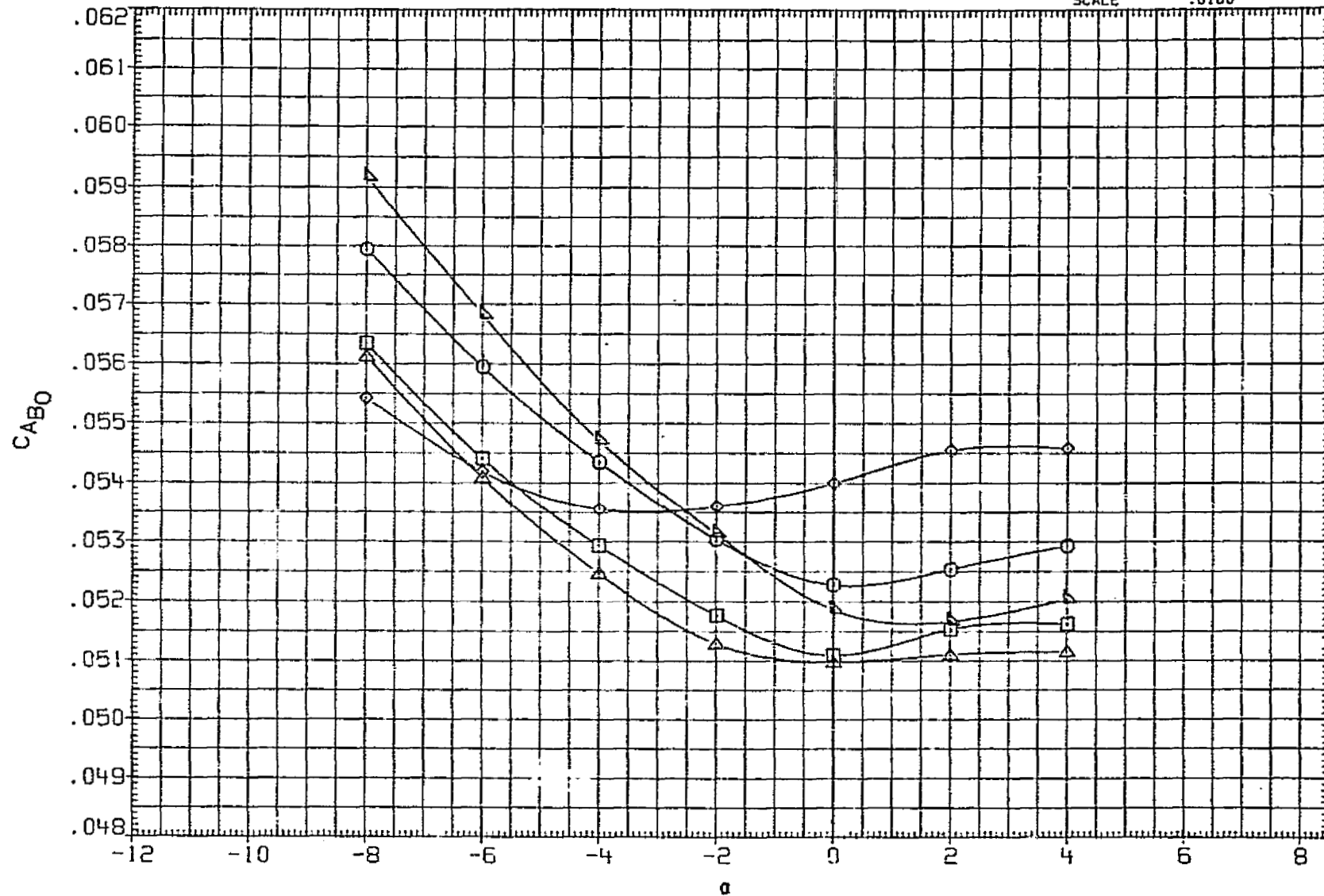


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ857	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJ858	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJ859	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJ861	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJ862	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

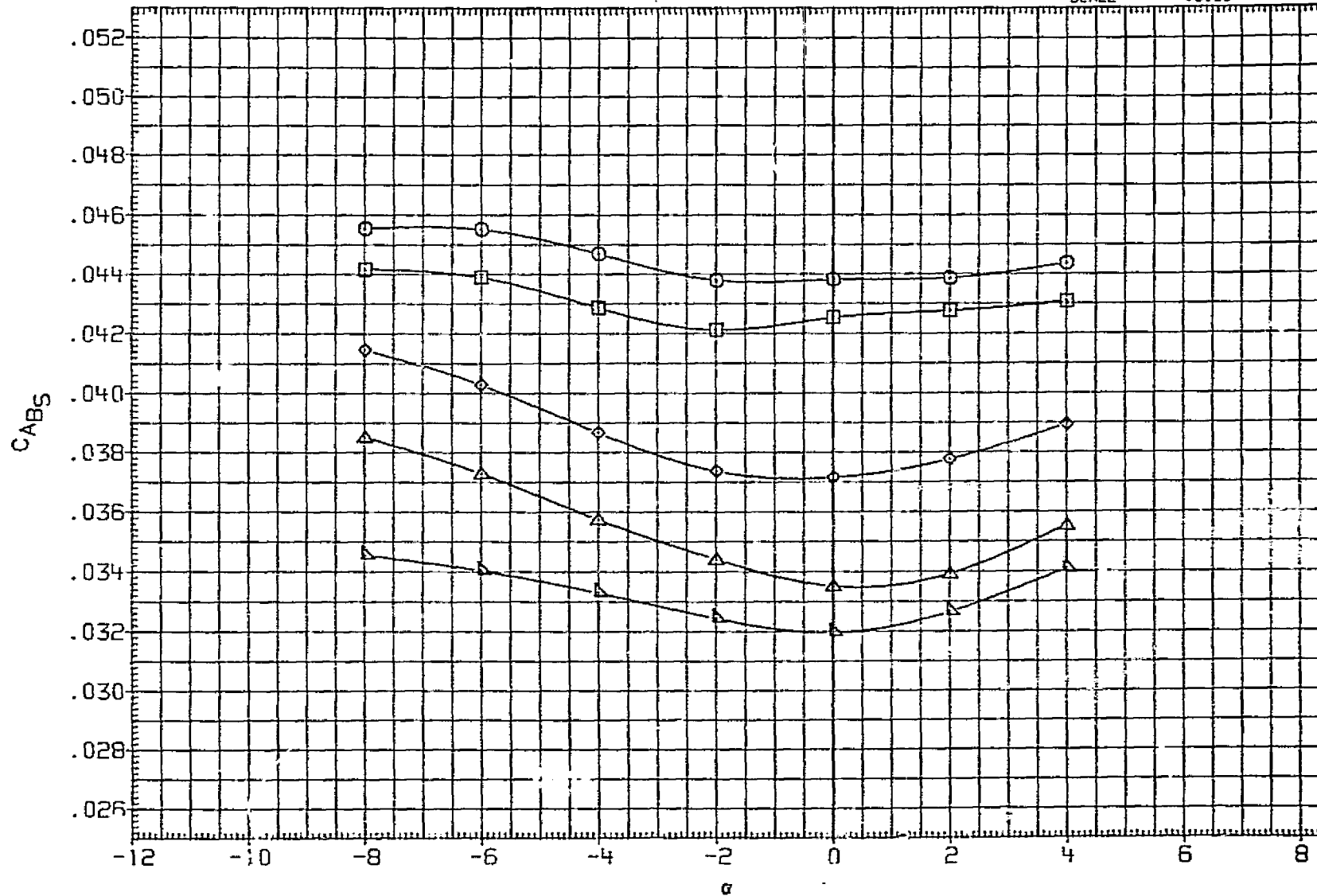


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LC	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 6FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ. FT.
MJJB58	□	LARC 6FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.0000	INCHES
MJJB59	◇	LARC 6FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	SREF	1290.0000	INCHES
MJJB61	△	LARC 6FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	WHRP	976.0000	IN. XT
MJJB62	▽	LARC 6FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YHRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

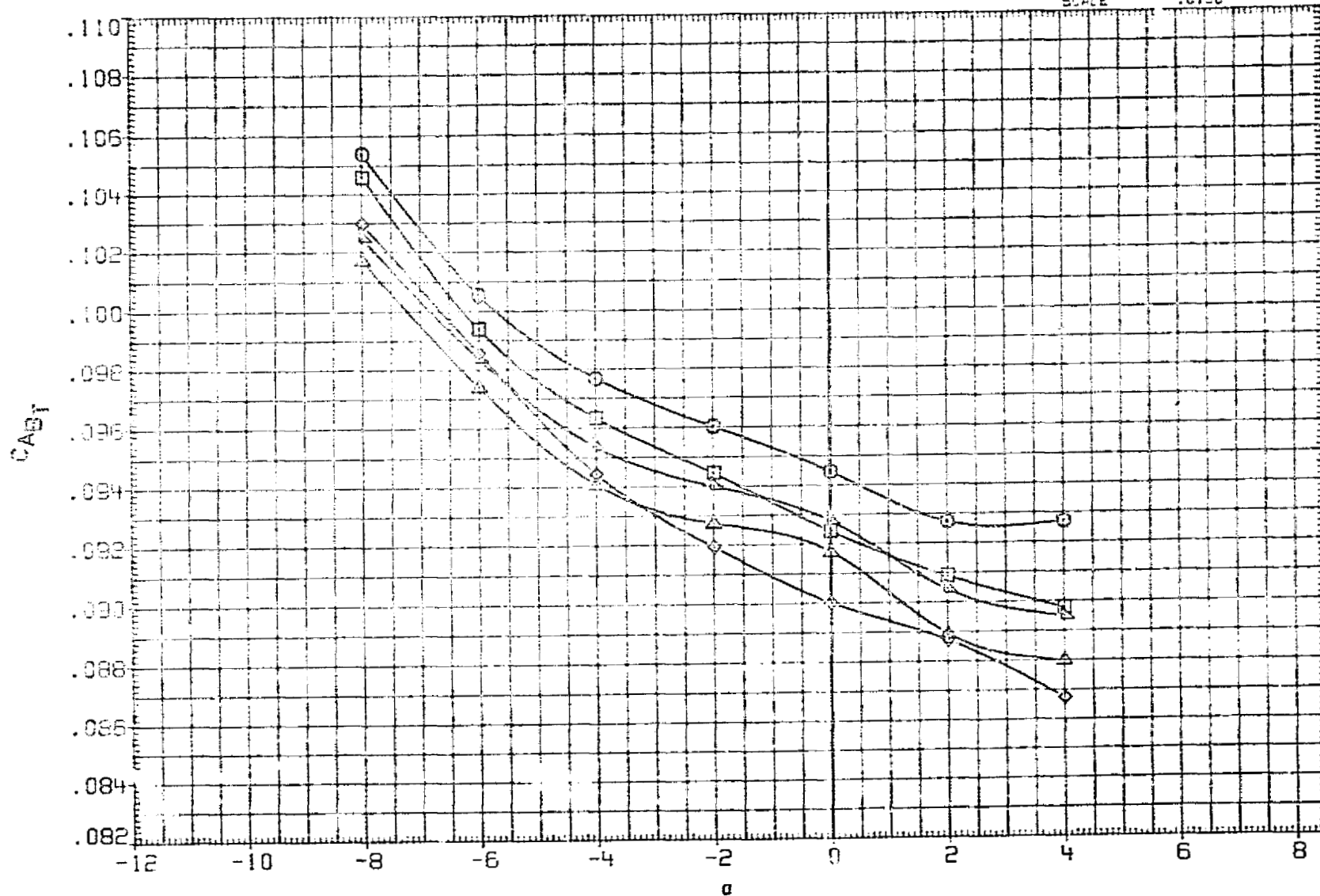


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	9.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	SREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMPP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

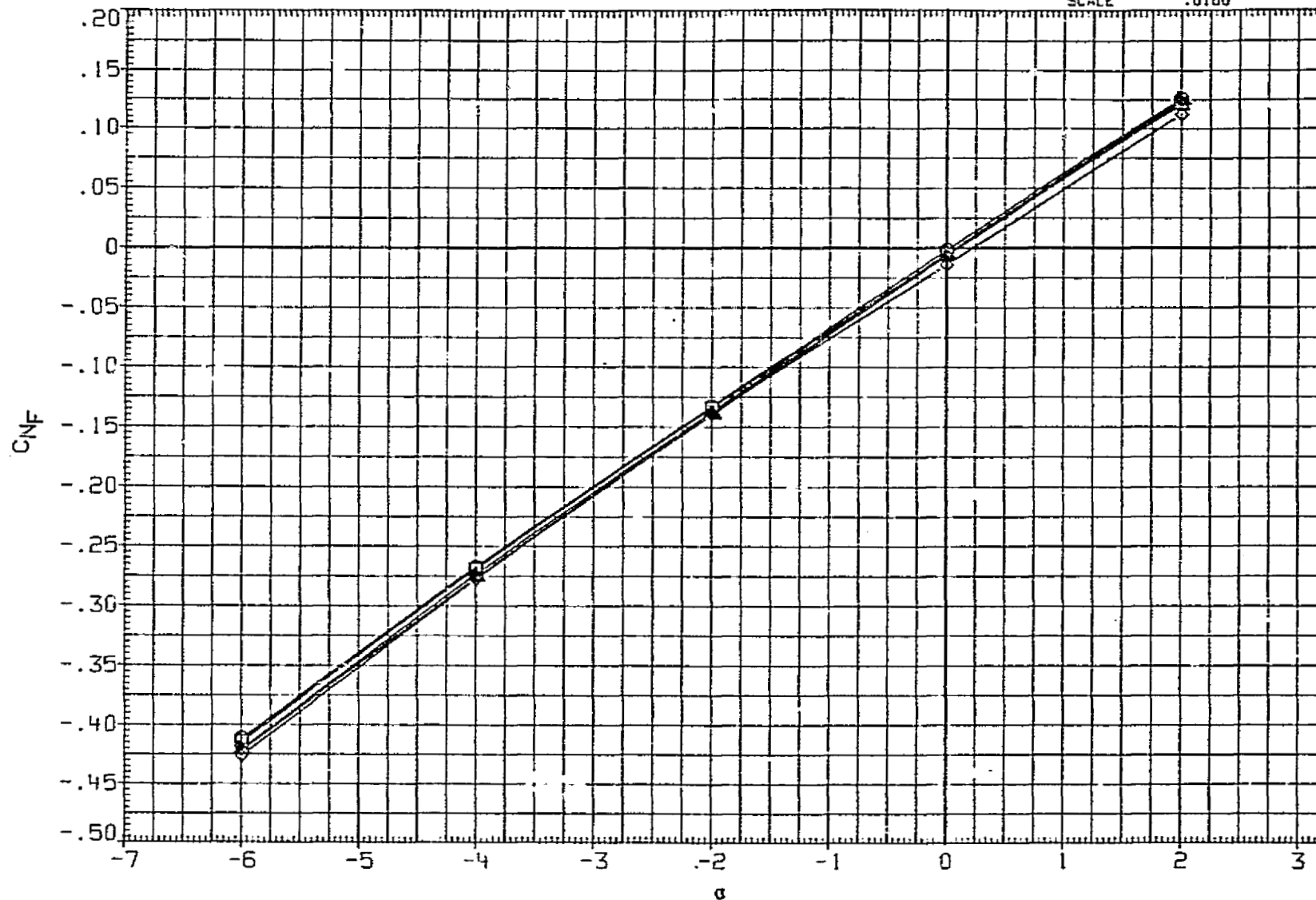


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-PO	REFERENCE INFORMATION		
MJJ857	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJ858	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJ859	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJ861	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJ862	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

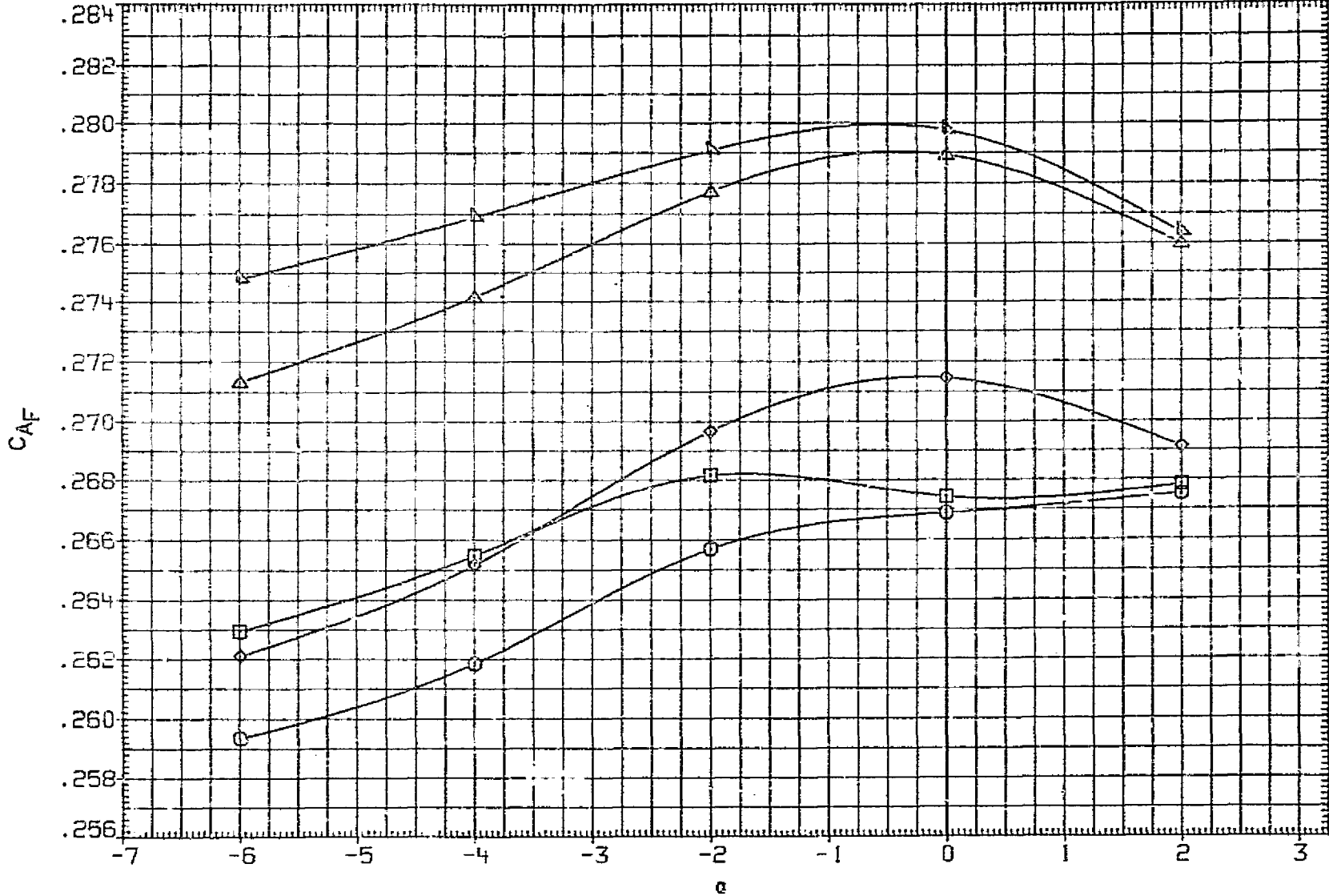


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ857	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJ858	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJ859	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJ861	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJ962	▽	LARC 8FT TPT 749 (1A93) OTSAT130	8.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

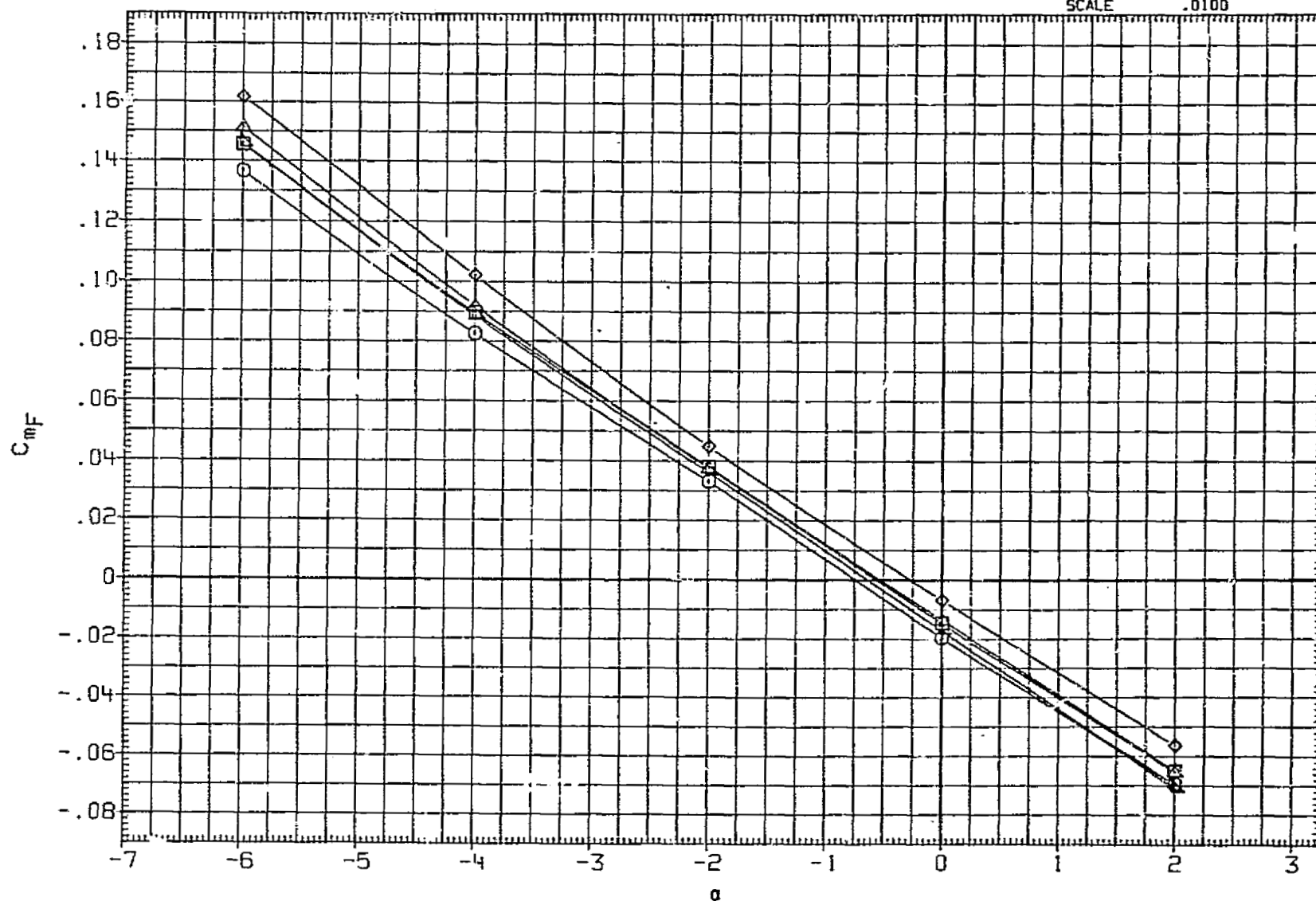


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC BFT TPT 749 (IA93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJB58	□	LARC BFT TPT 749 (IA93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC BFT TPT 749 (IA93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC BFT TPT 749 (IA93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC BFT TPT 749 (IA93) OTSAT130	6.000	8.000	9.000	8.000	9.000	ZMRP	.0000	IN. YT
									400.0000	IN. ZT
								SCALE	.0100	

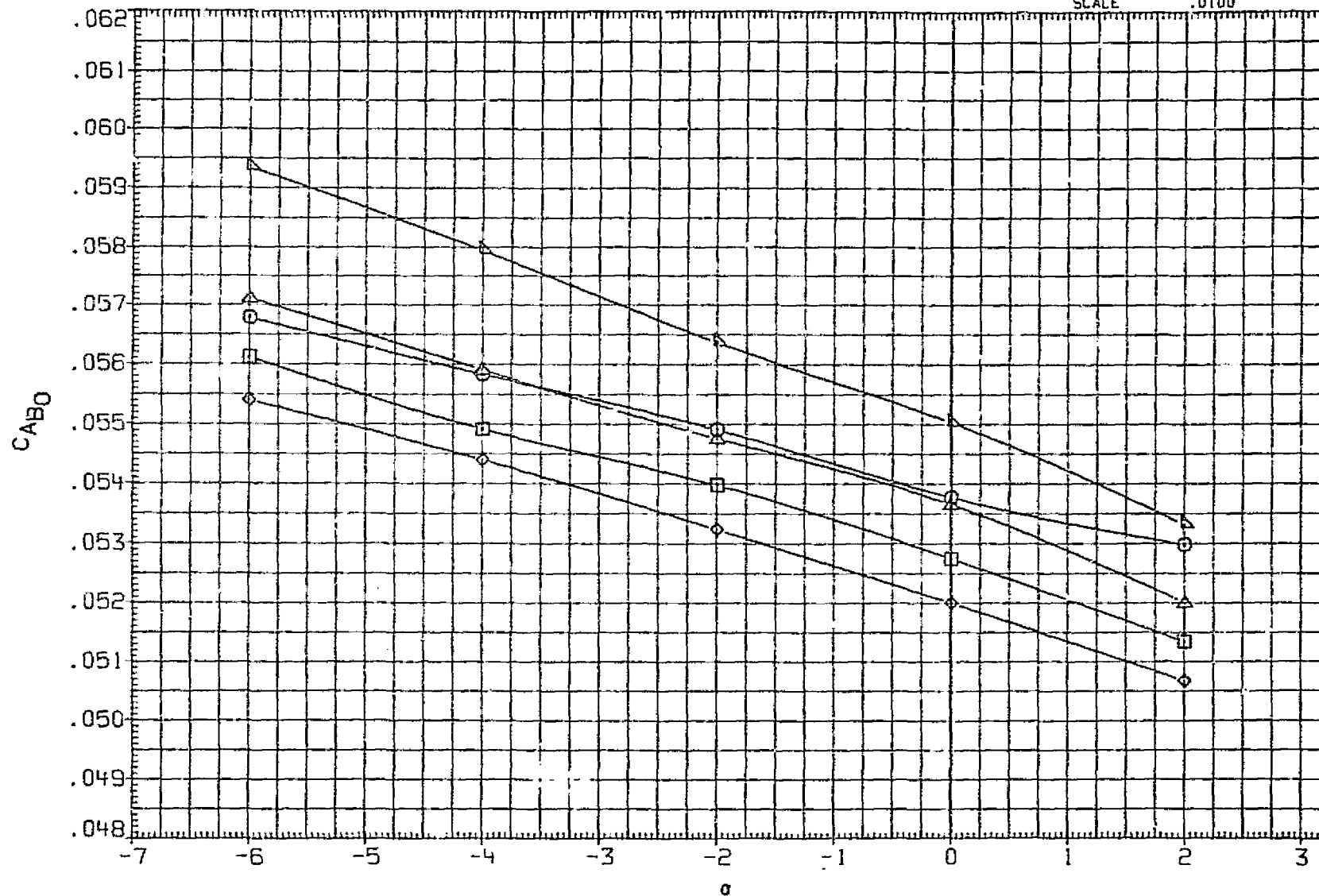


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	99.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	SREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

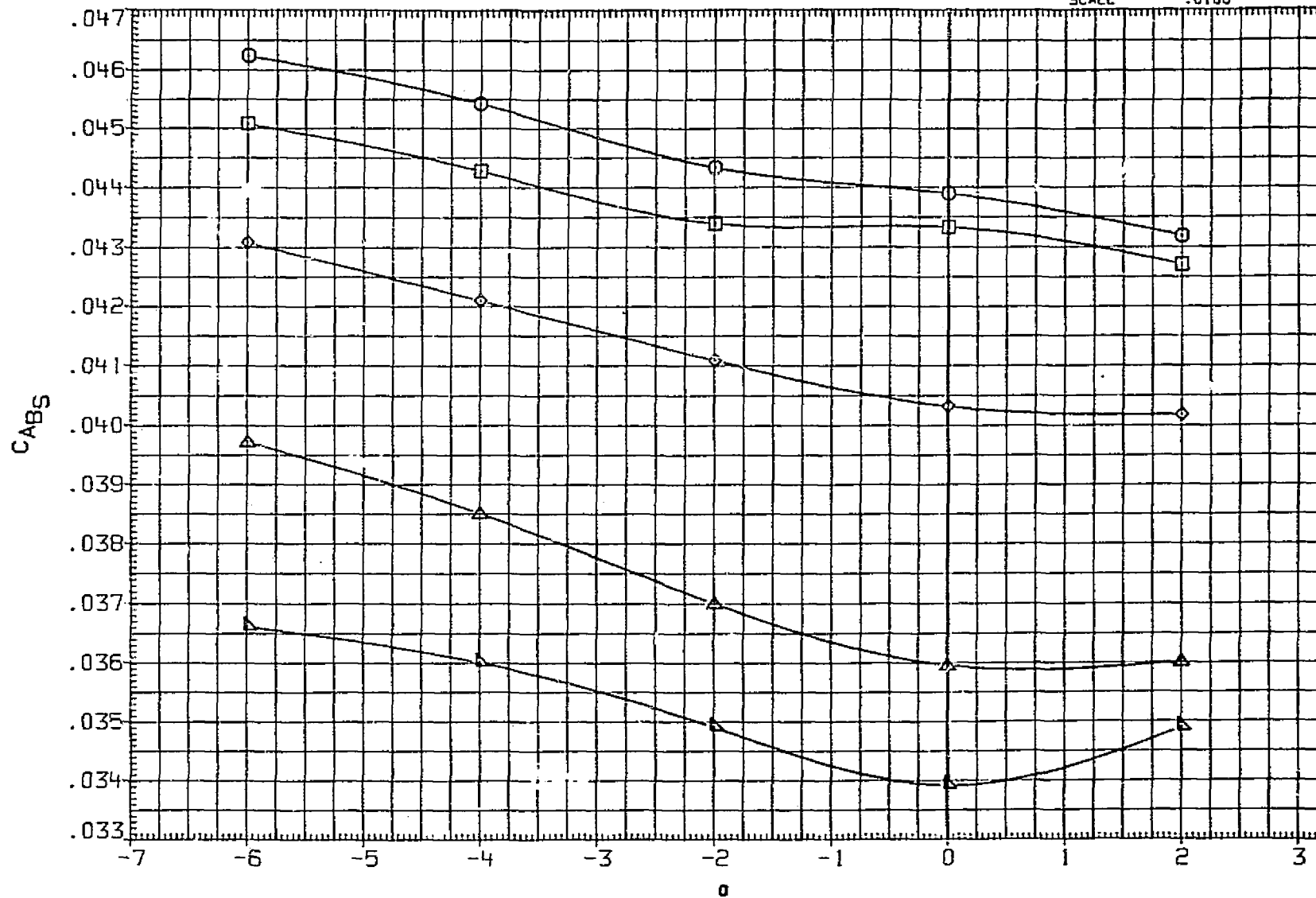


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ857	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	3.000	SREF	2690.0000	50. FT.
MJJ858	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	1 INCHES
MJJ859	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	1 INCHES
MJJ861	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	975.0000	IN. XT
MJJ362	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

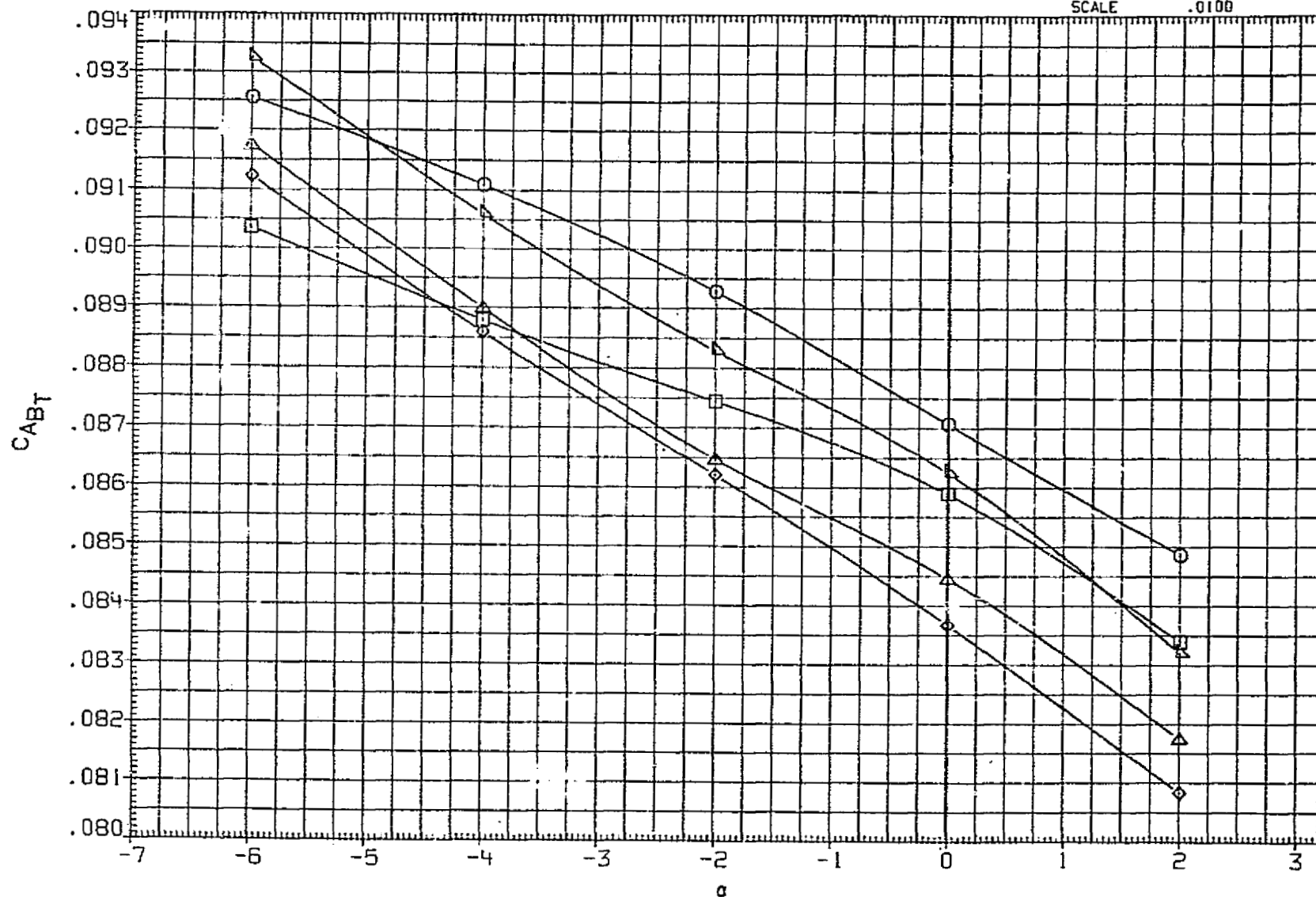


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(C) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

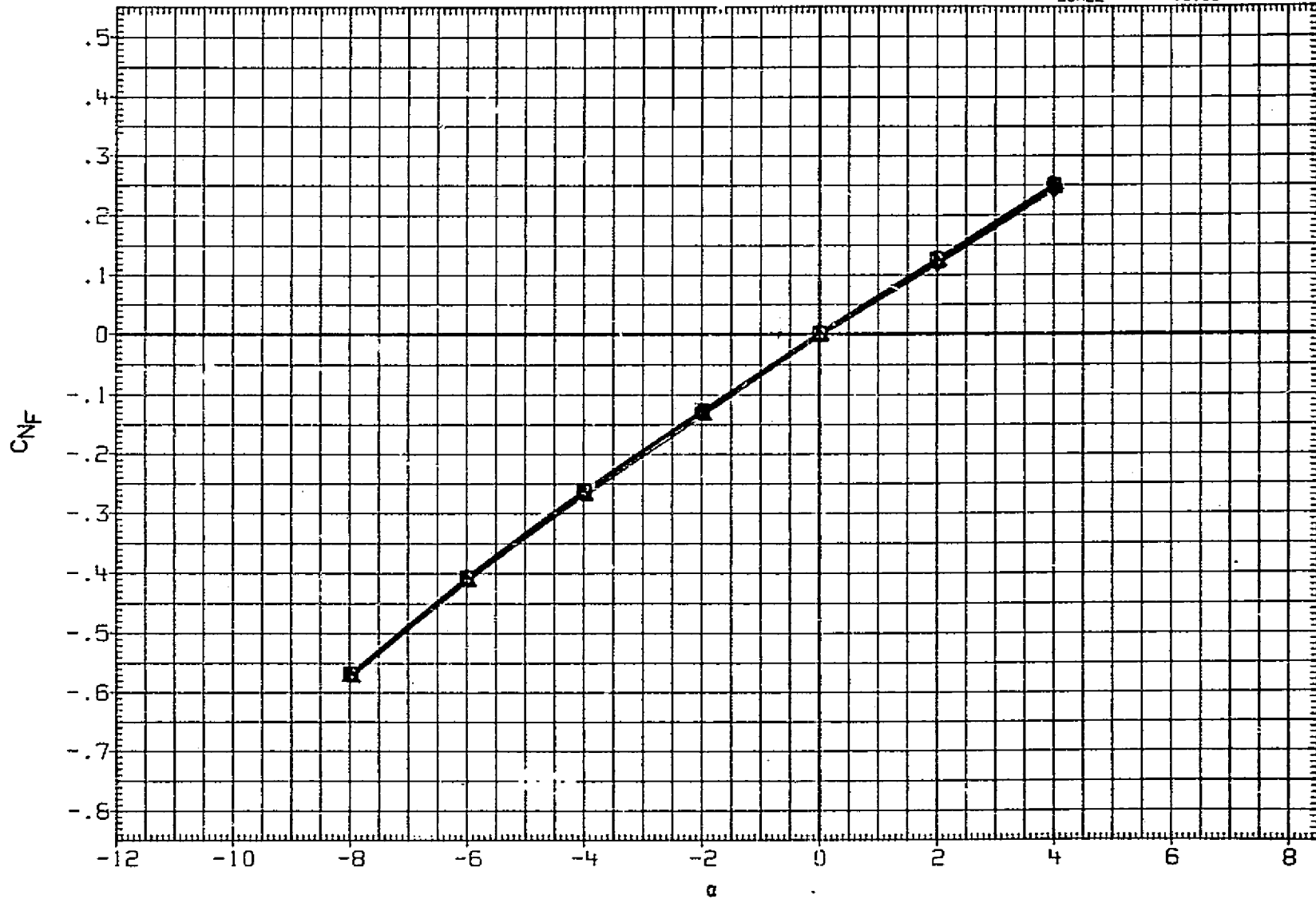


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ857	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2698.0000	50.FT.
MJJ858	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJ859	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJ861	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJ862	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

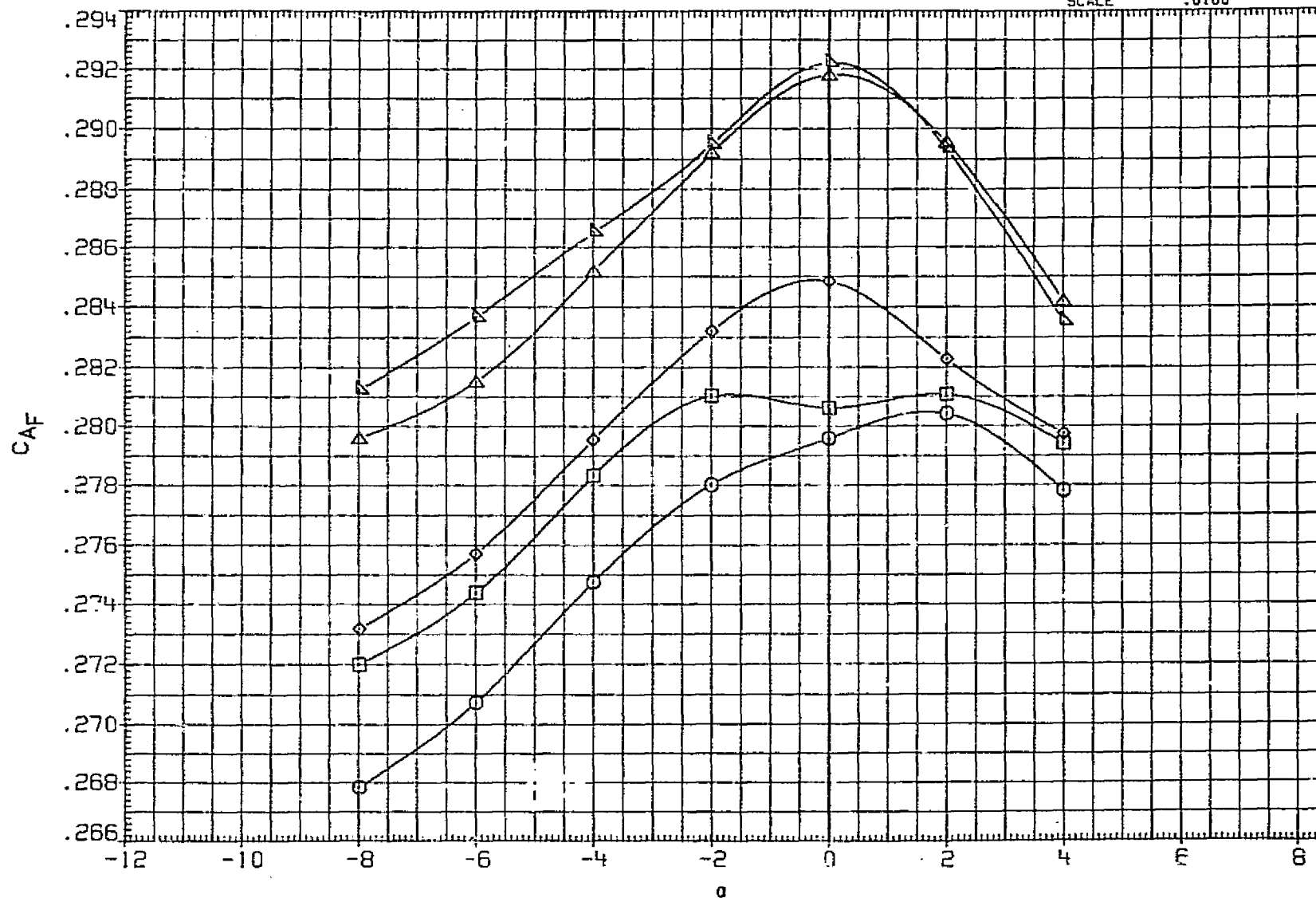


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ. FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

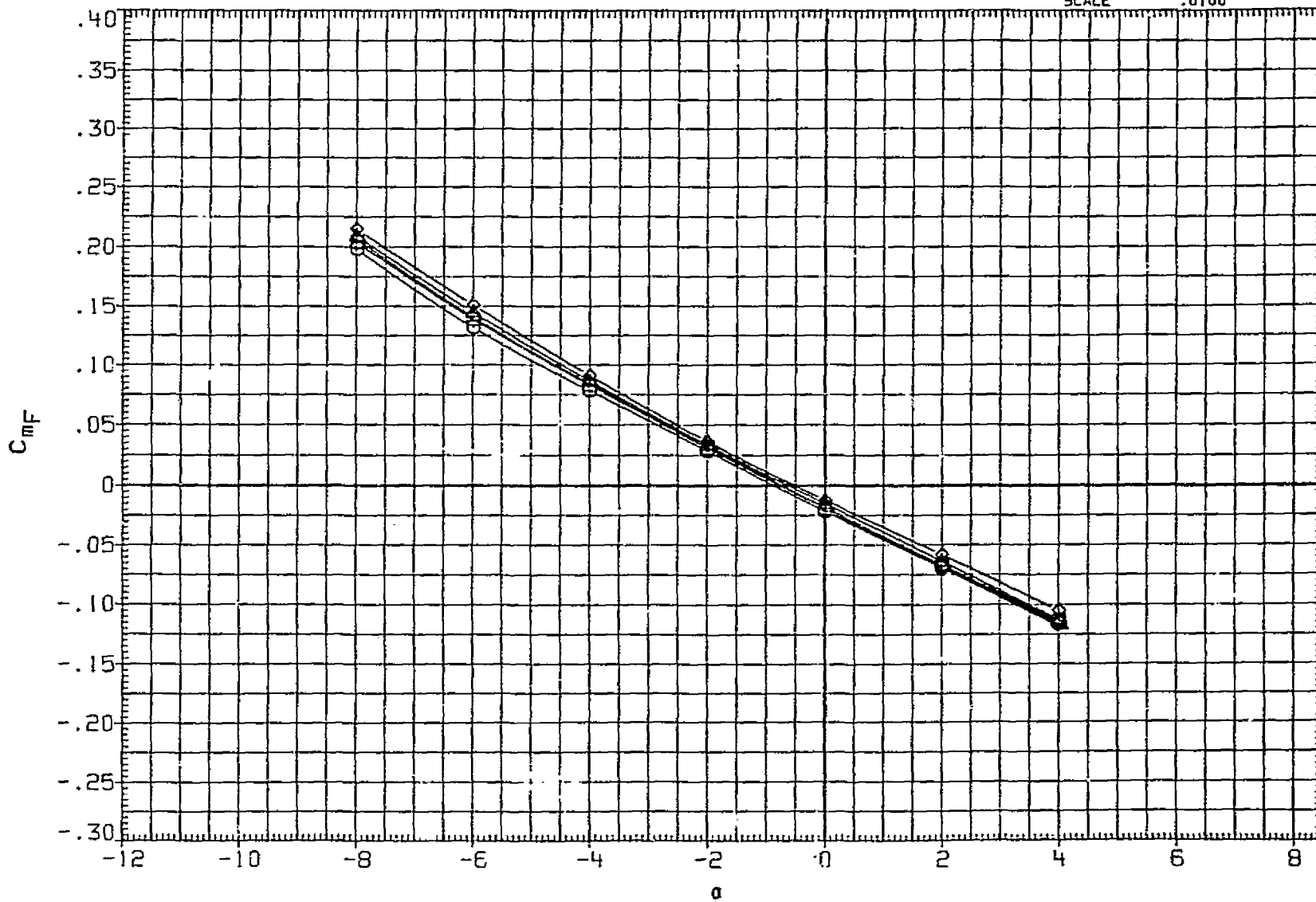


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB57	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJB58	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. AT
MJJB62	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

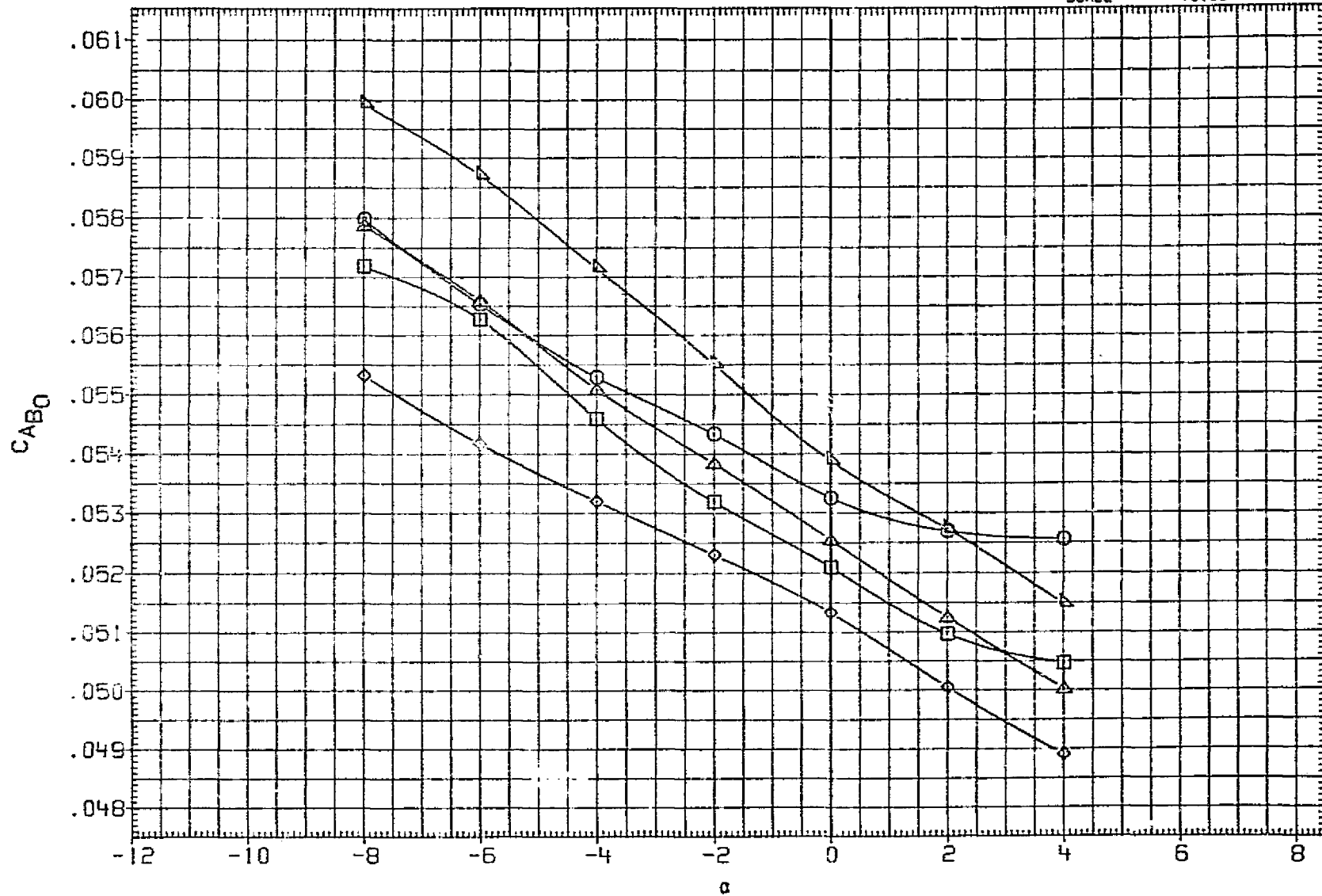


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	408.0000	IN. ZT
								SCALE	.0100	

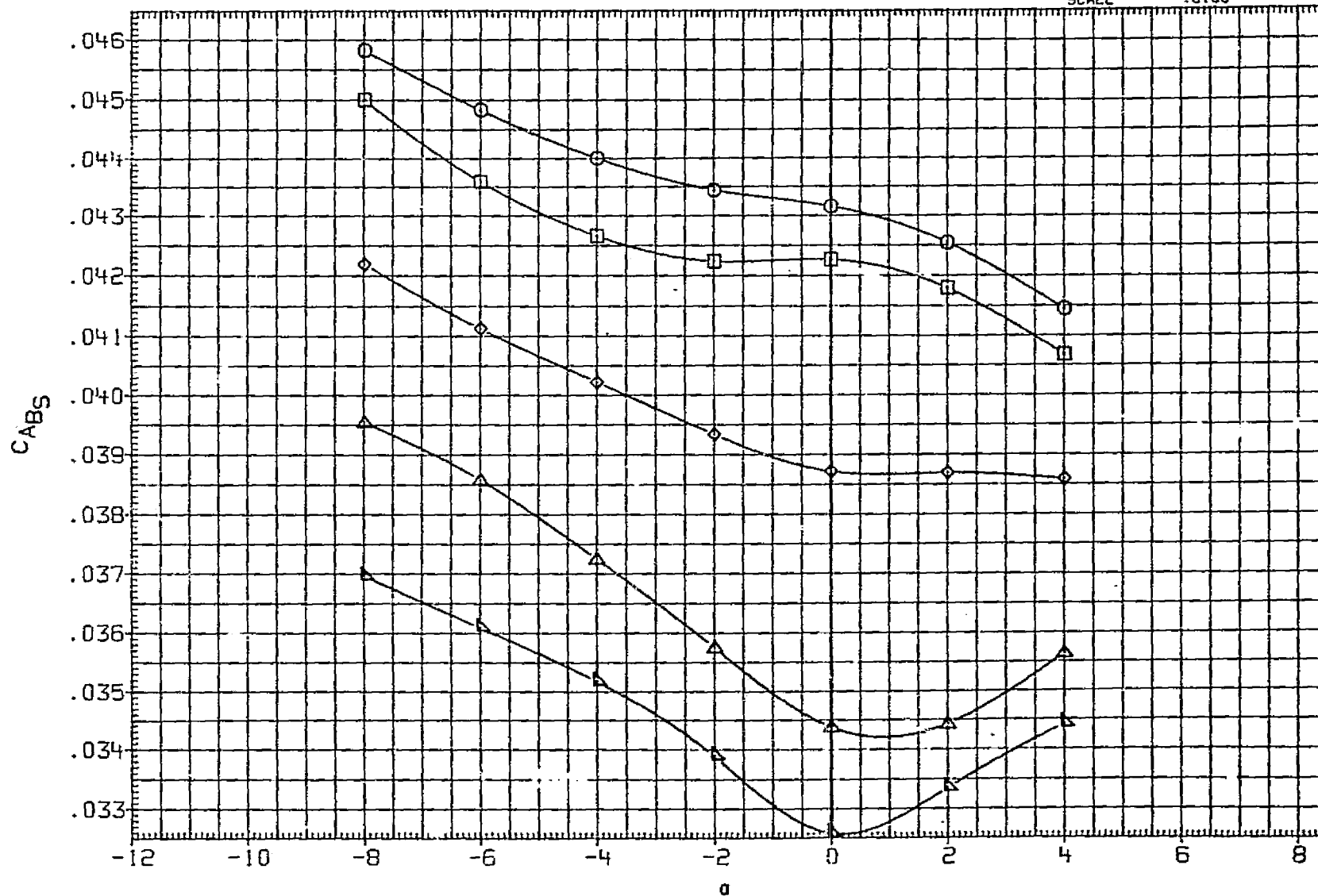


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJ0857	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	59. FT.
MJ0858	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJ0859	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJ0851	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. FT
MJ0852	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. FT
								ZMRP	400.0000	IN. FT
								SCALE	.0100	

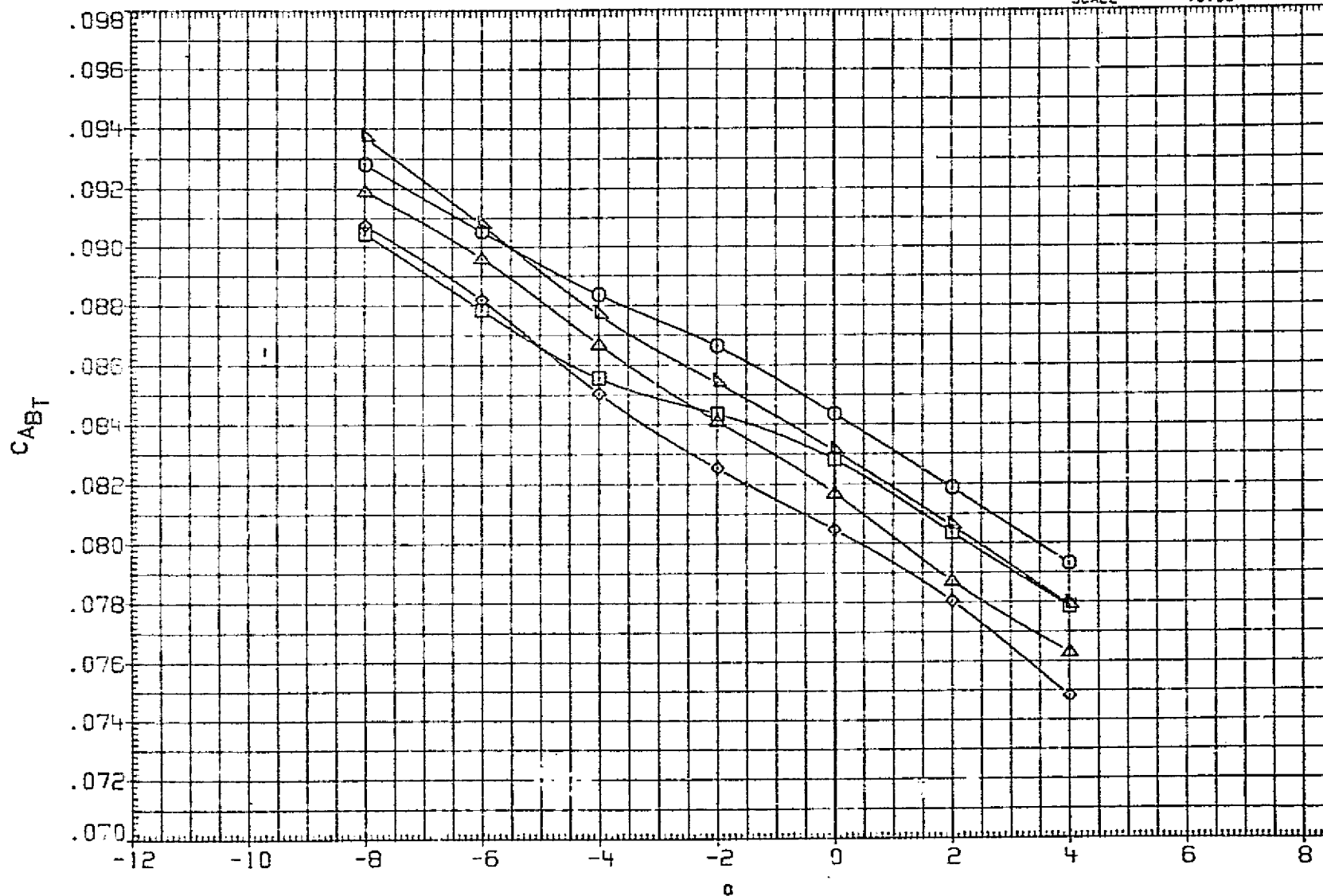


FIG. 4 LONGITUDINAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ. FT.
MJJA03	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

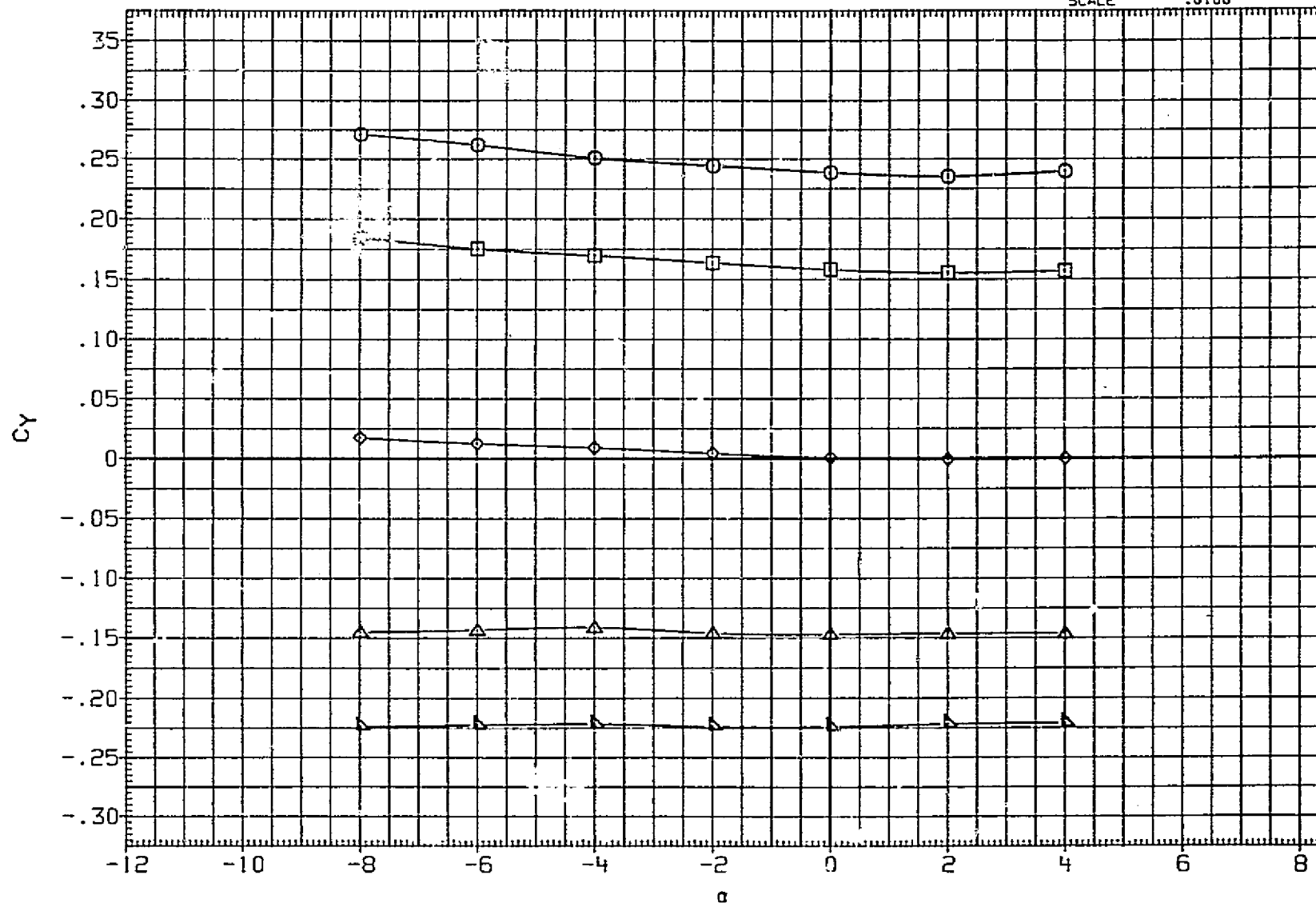


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	* REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

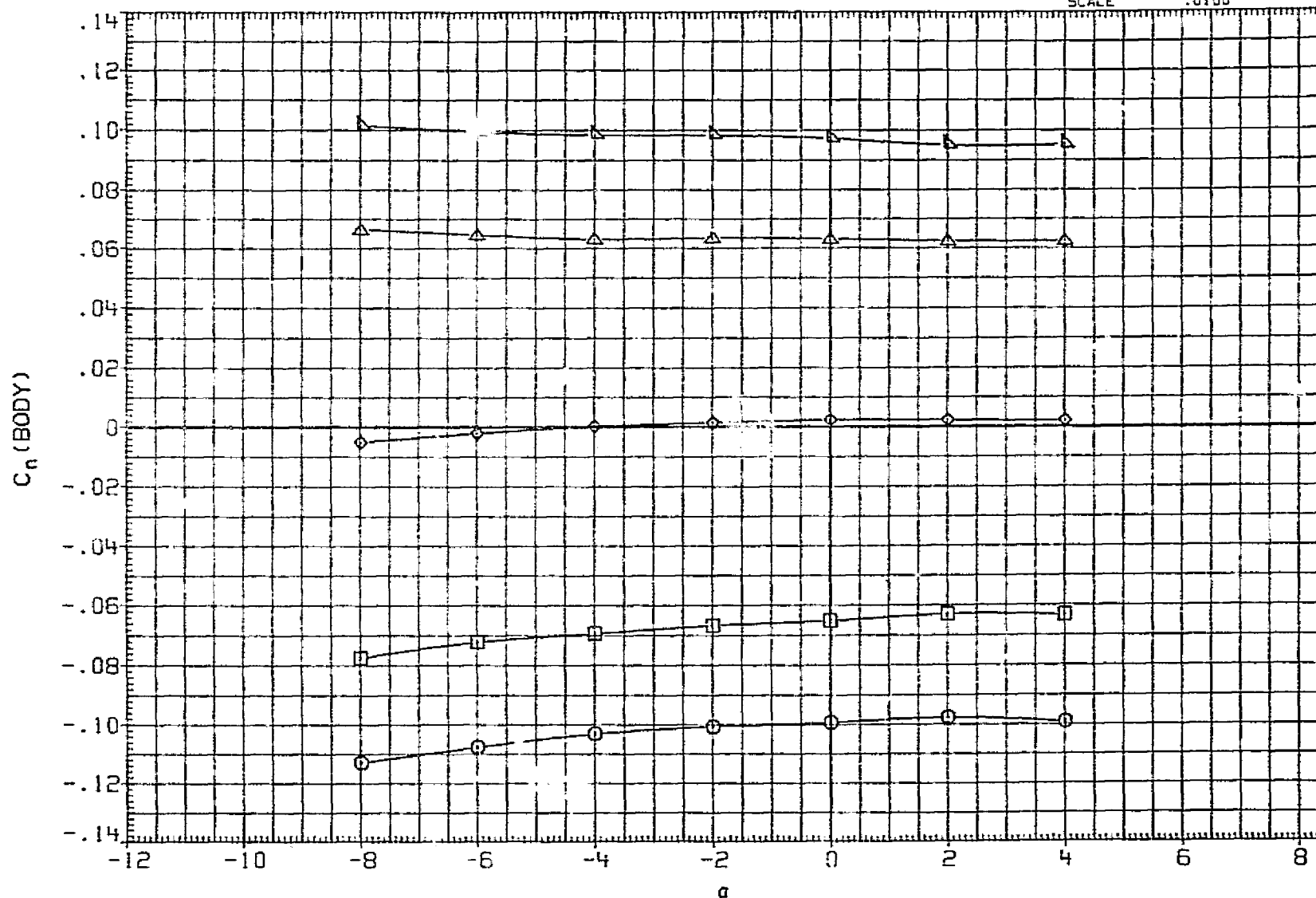


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2590.0000 SQ.FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000 INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000 INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	978.0000 IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

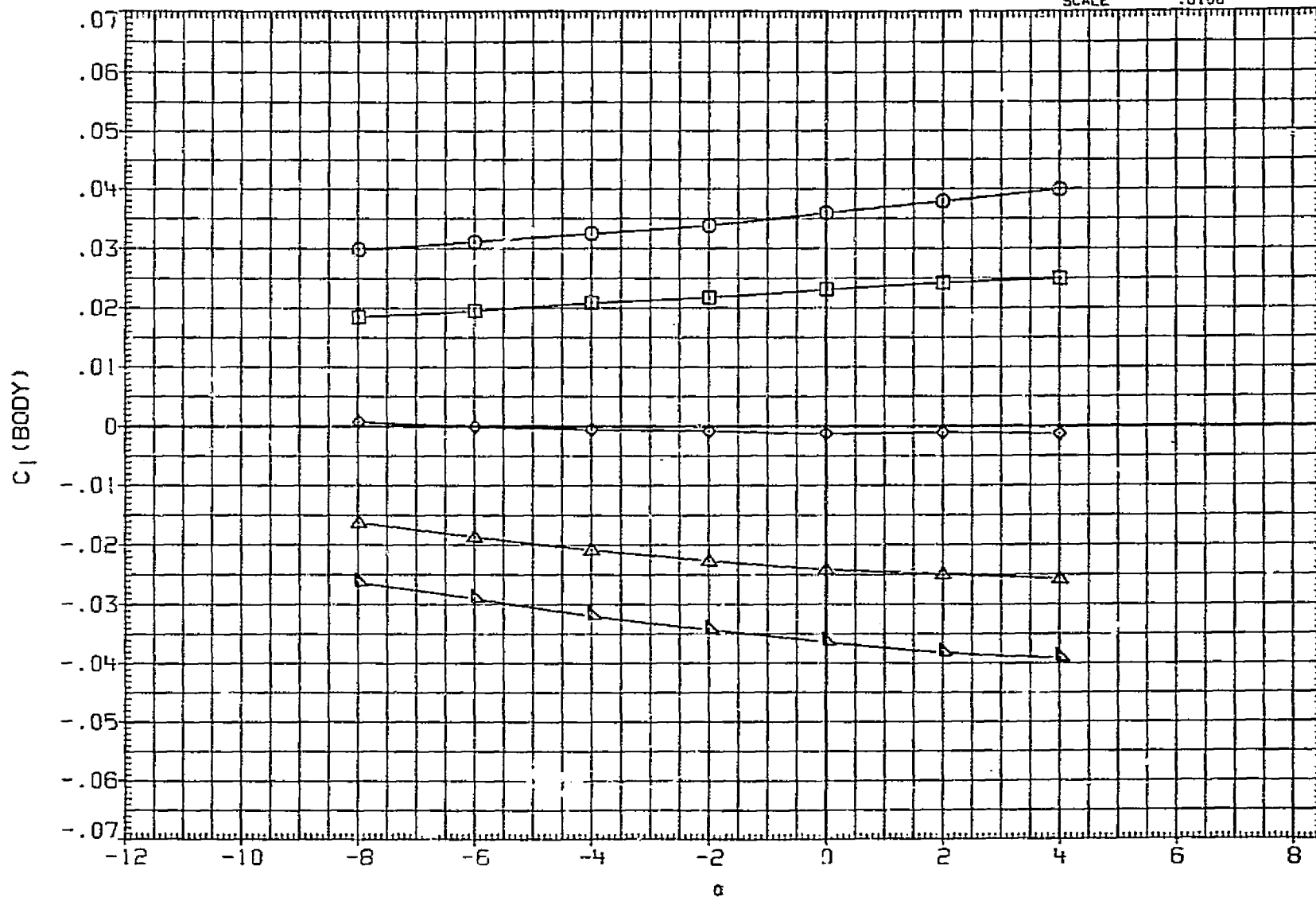


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJA03	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

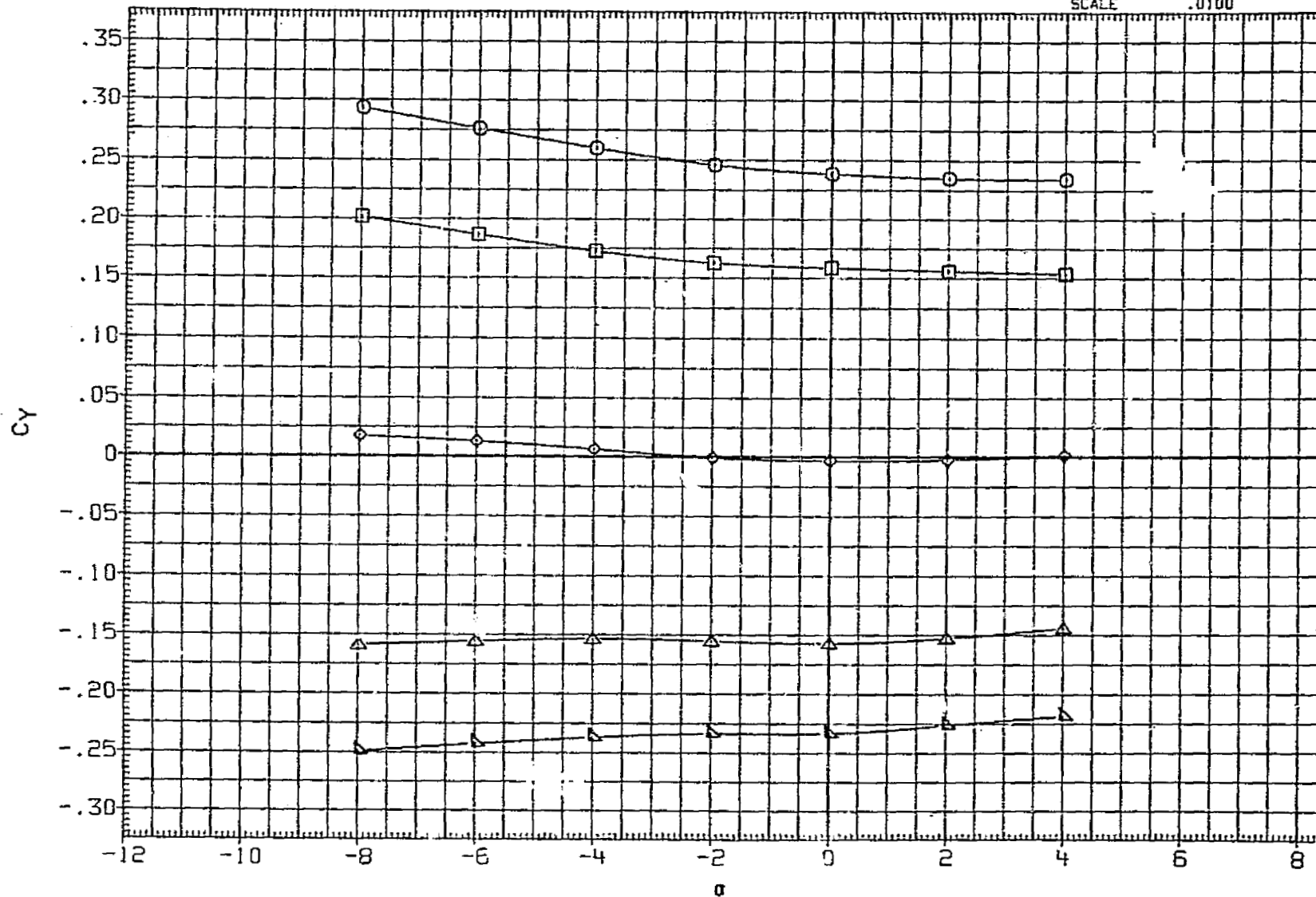


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000 SQ.FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000 INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000 INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000 IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

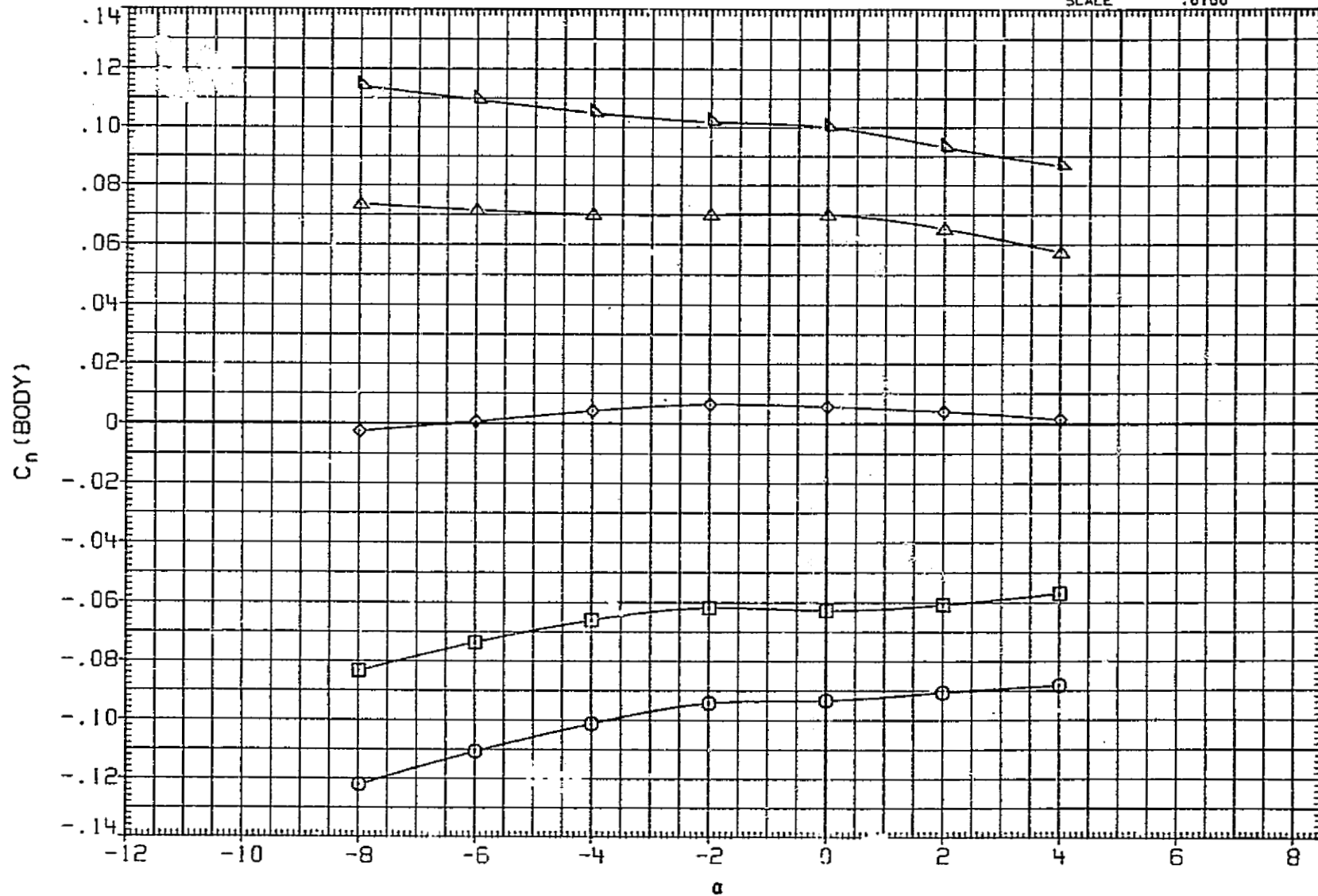


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50.FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.5000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

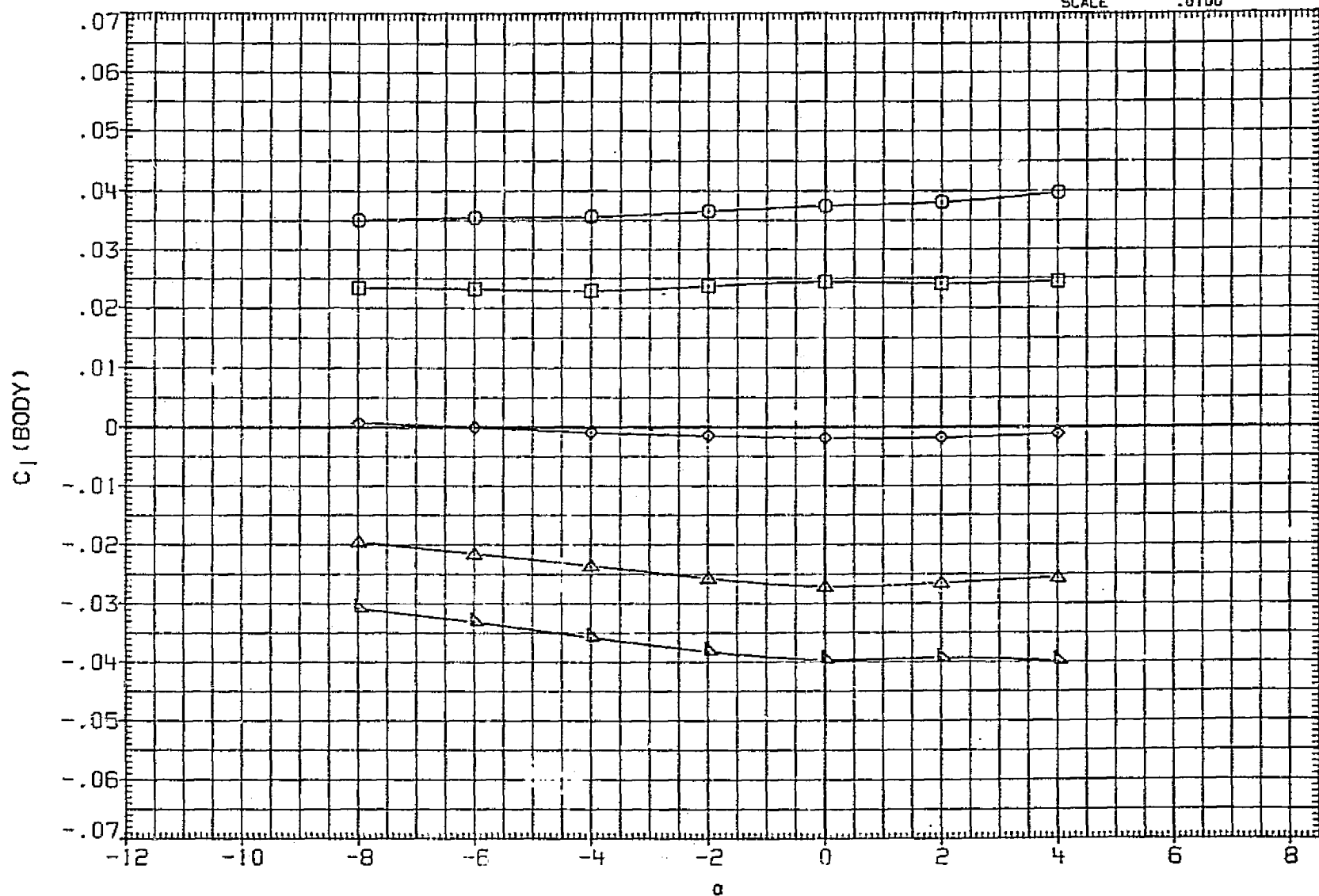


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50.FT.
MJJA03	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

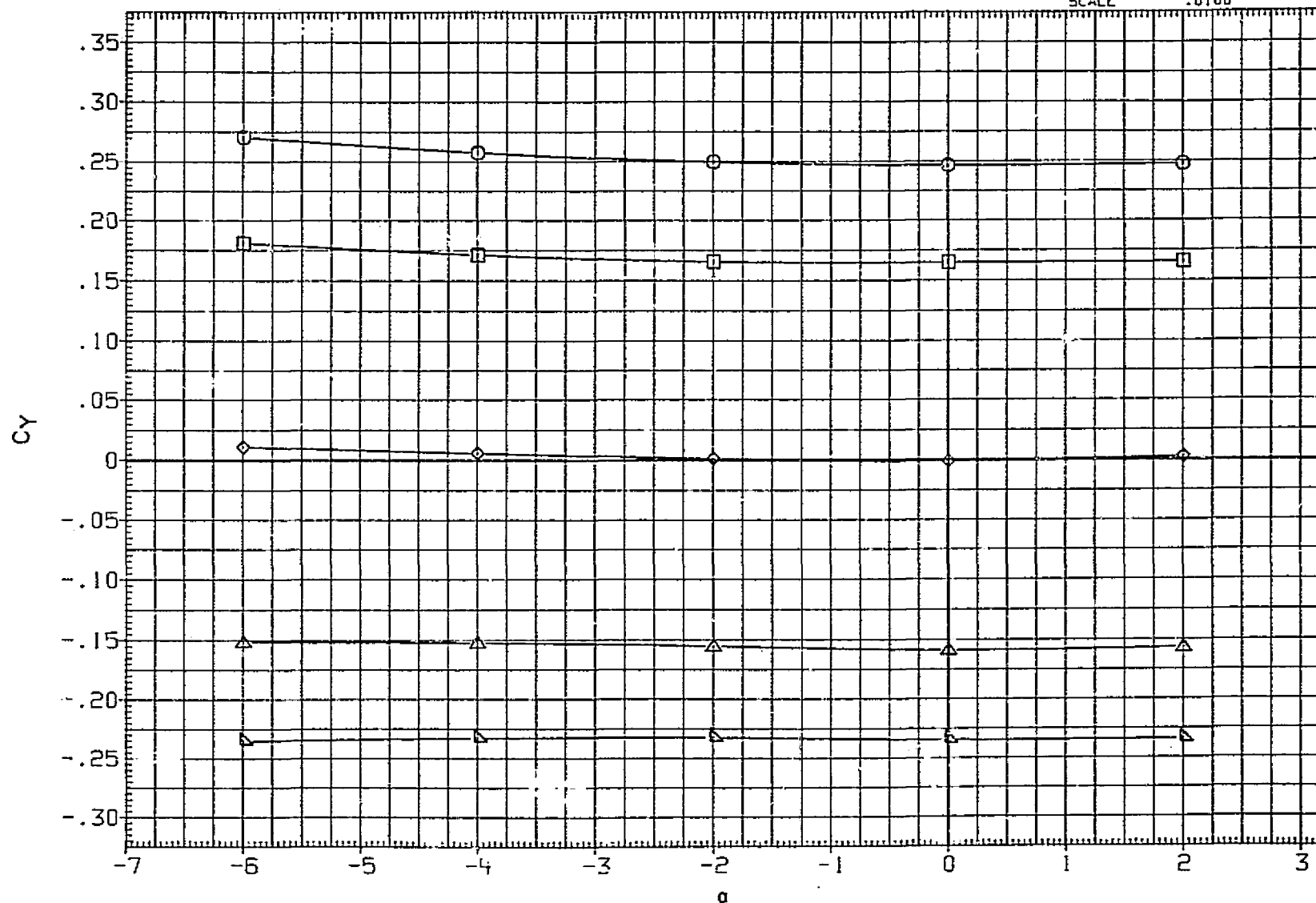


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ. FT.
MJJA02	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

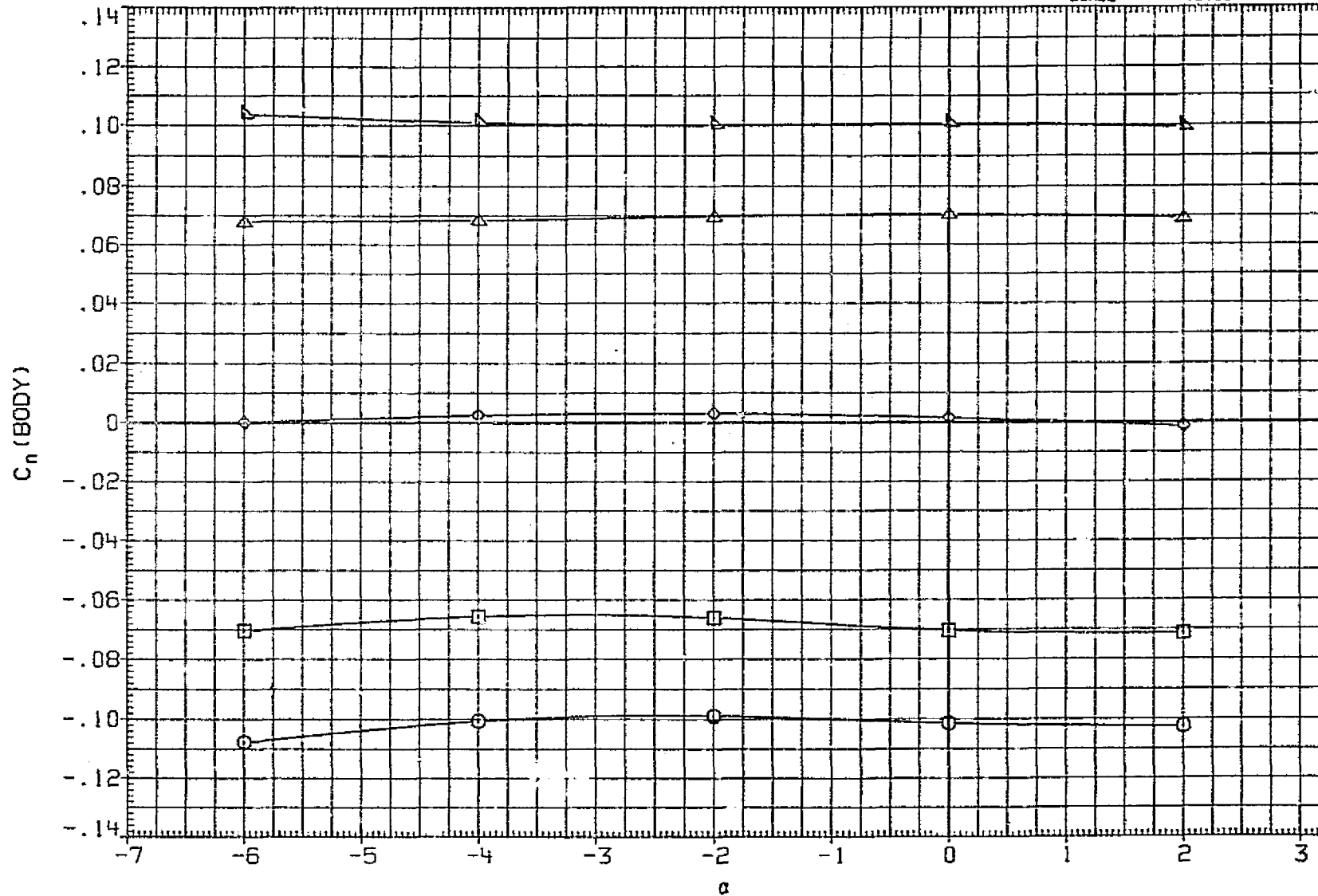


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(C) MACH = 1.15

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

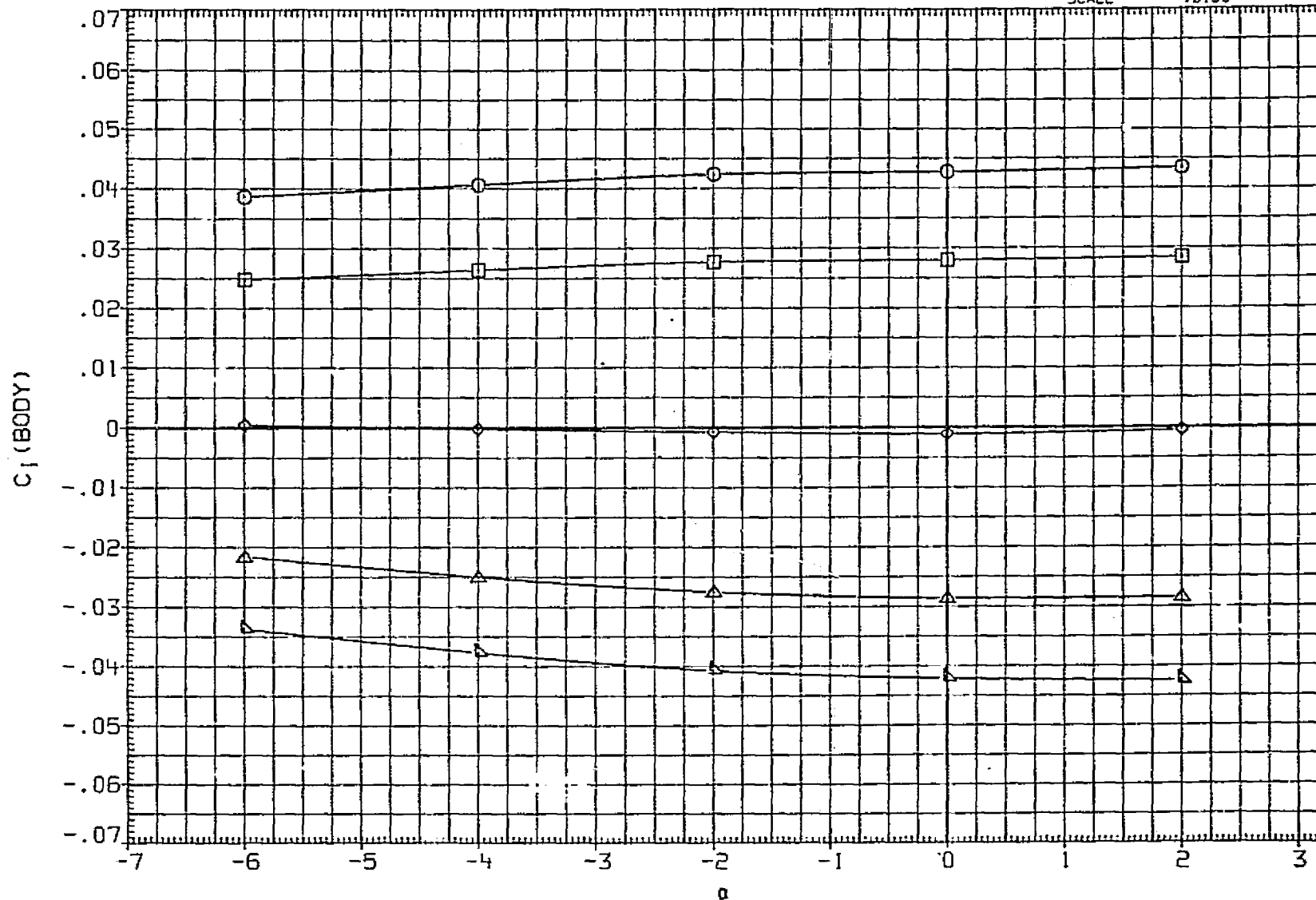


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA02	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF 2690.0000 SQ.FT.
MJJA03	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF 1290.3000 INCHES
MJJA04	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF 1290.3000 INCHES
MJJA05	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP 976.0000 IN. XT
MJJA06	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

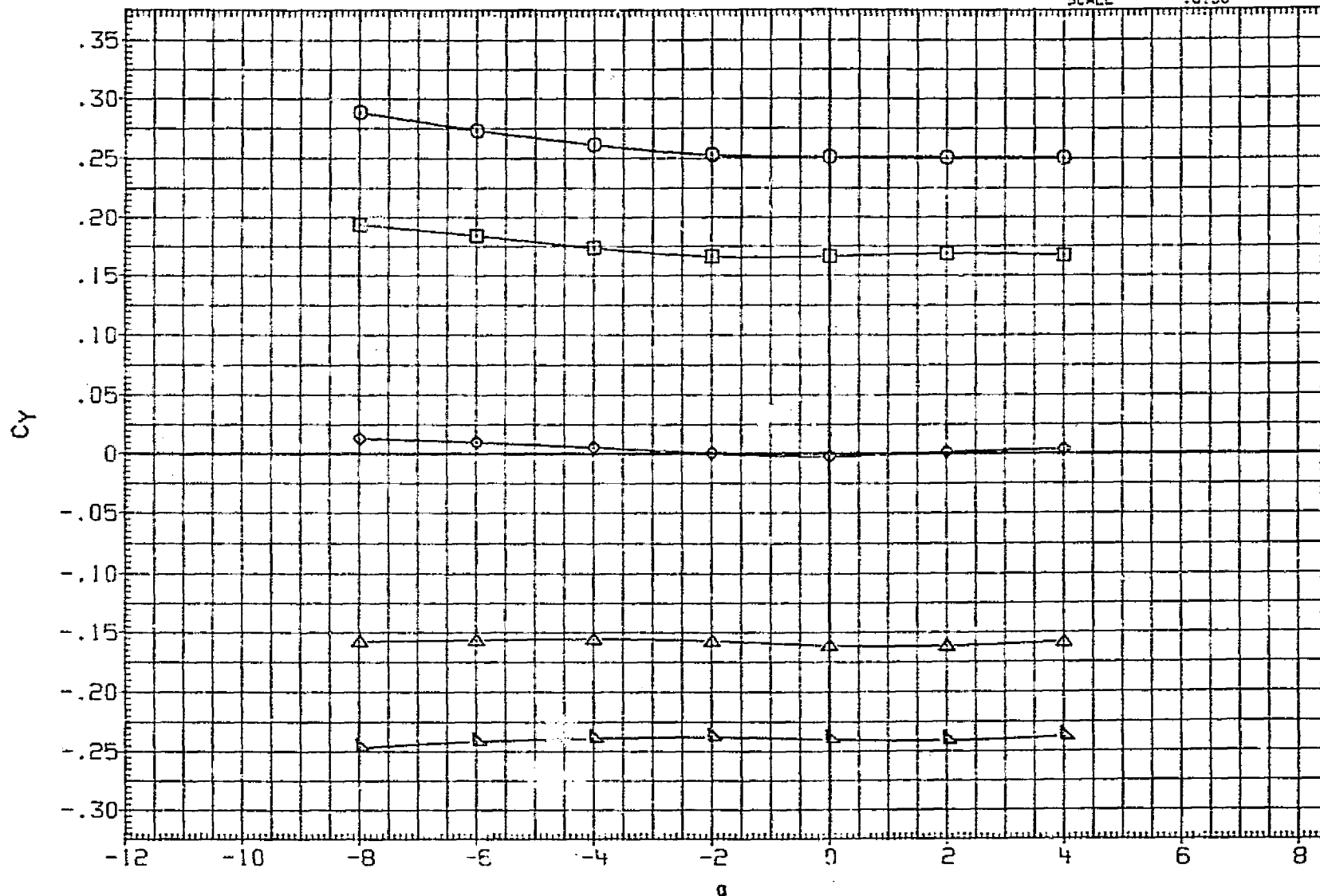


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D)MACH = 1.20

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2590.0000	SQ.FT.
MJJA03	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	975.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

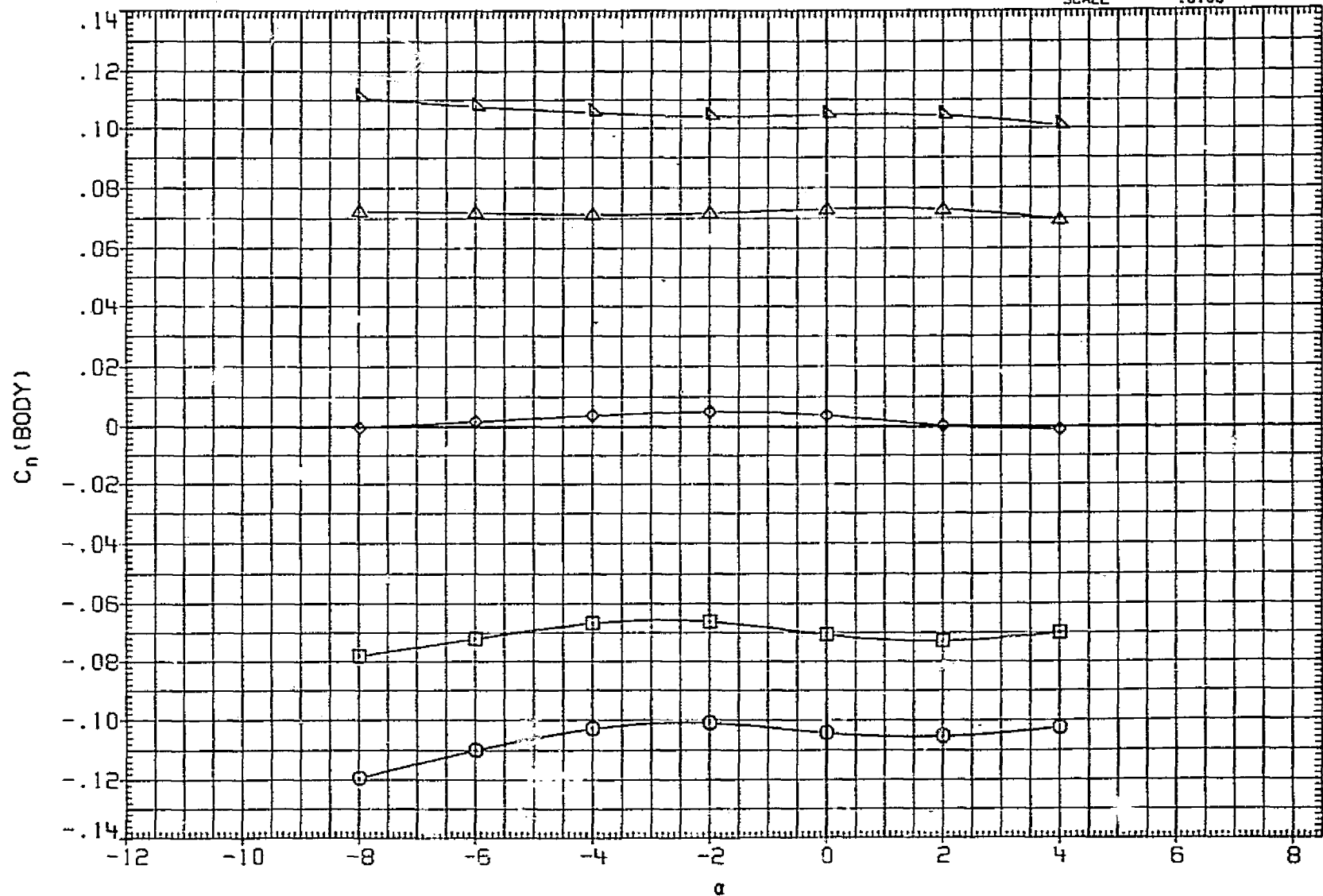


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. X1
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. Y1
								ZMRP	400.0000	IN. Z1
								SCALE	.0100	

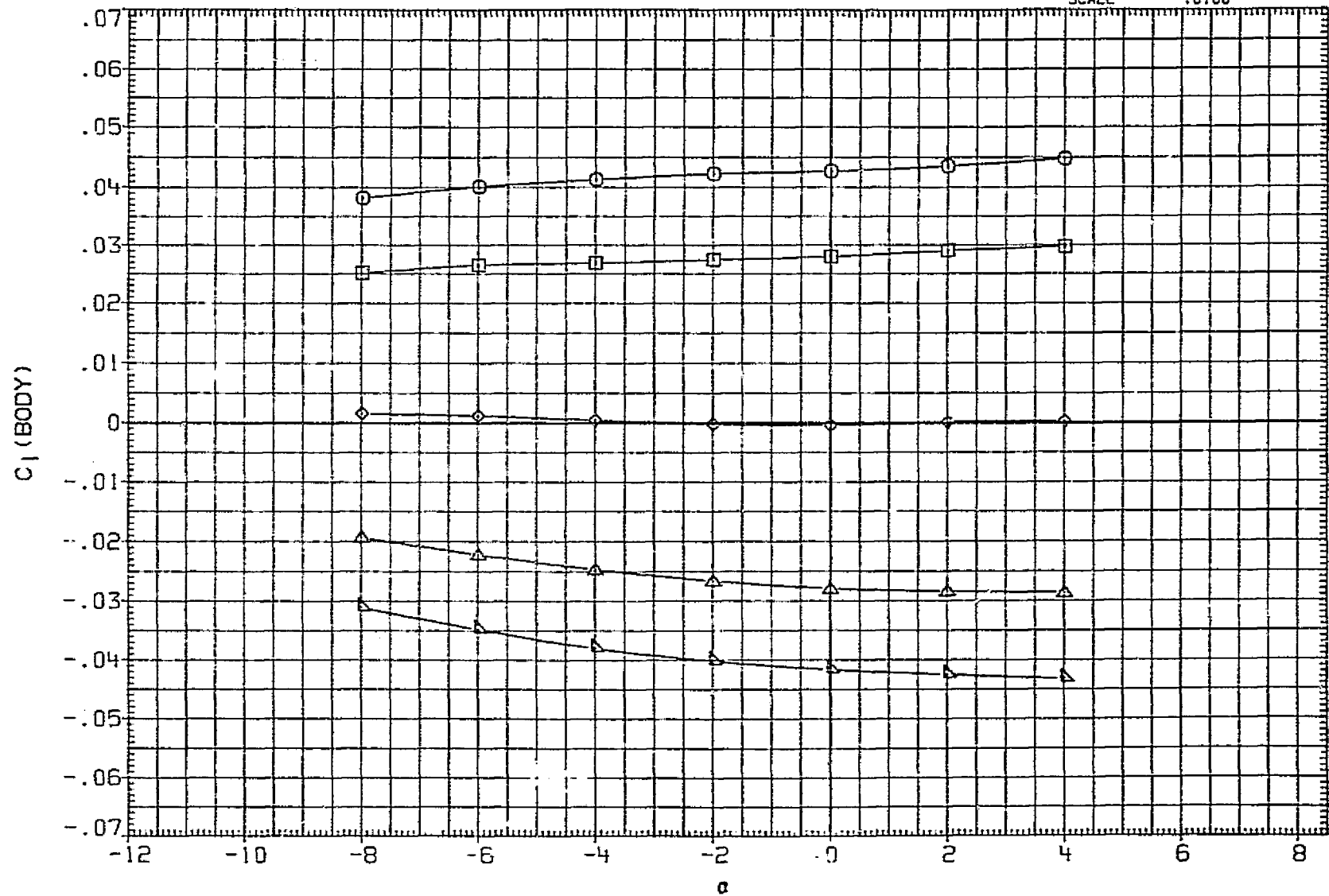


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJA08	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

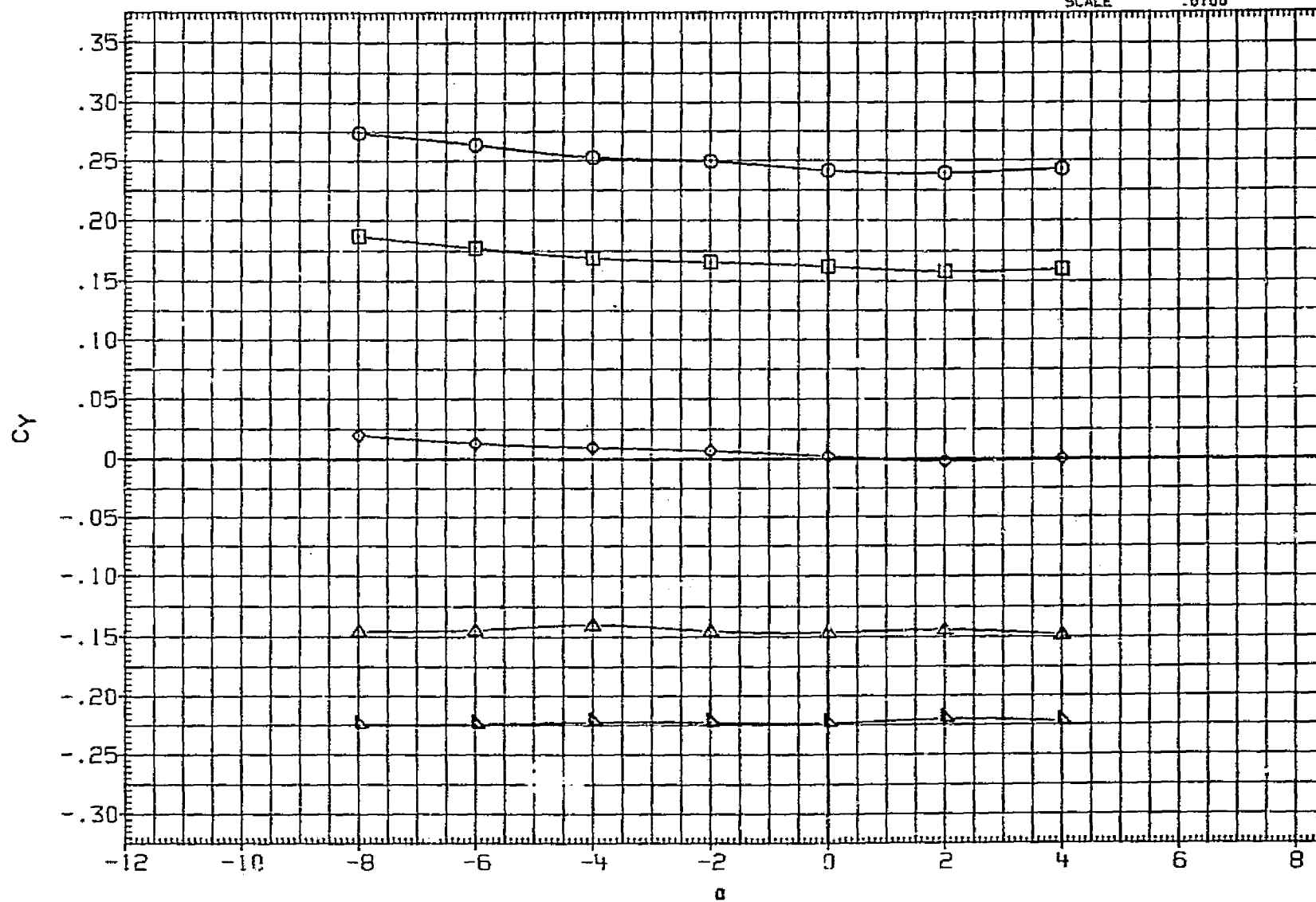


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA07	○	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	10.000	4.000	10.000	4.000	SREF	2690.0000 SQ.FT.
MJJA08	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1298.3000 INCHES
MJJA09	◇	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	SREF	1298.3000 INCHES
MJJA10	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000 IN. XT
MJJA11	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

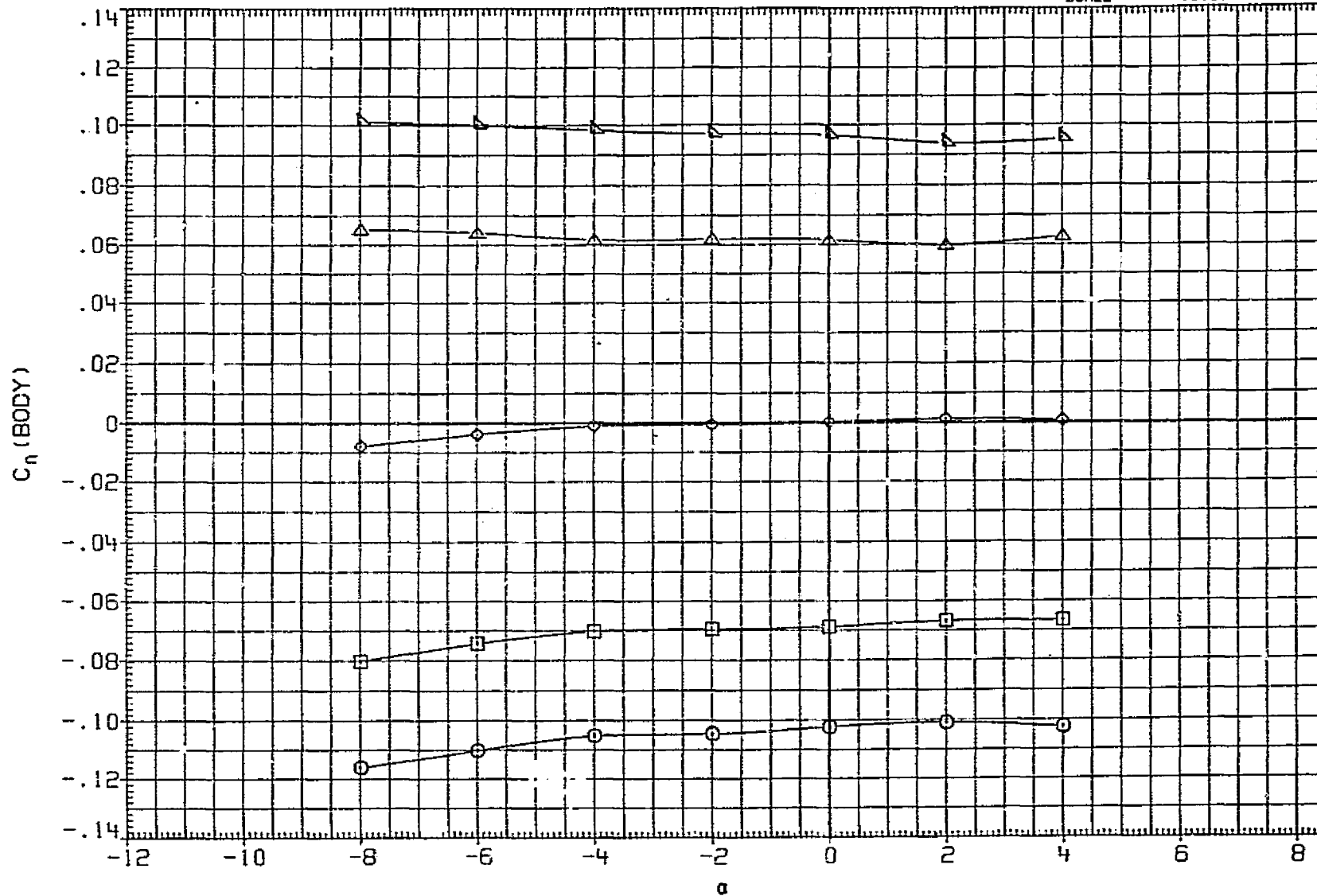


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA07	○	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	10.000	4.000	10.000	4.000	SREF	2690.0000 SQ.FT.
MJJA08	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000 INCHES
MJJA09	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000 INCHES
MJJA10	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000 IN. XT
MJJA11	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

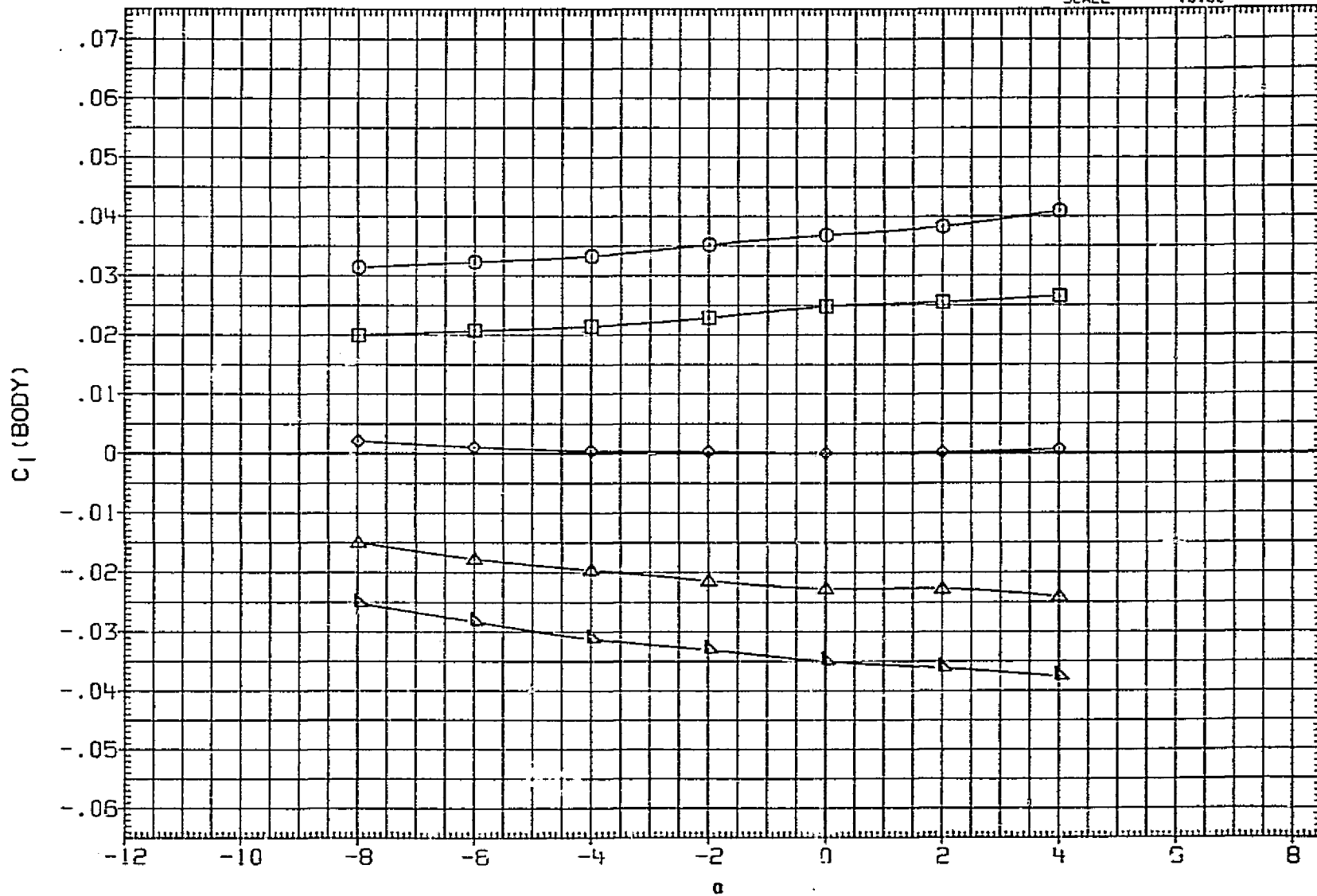


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	* REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ. FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

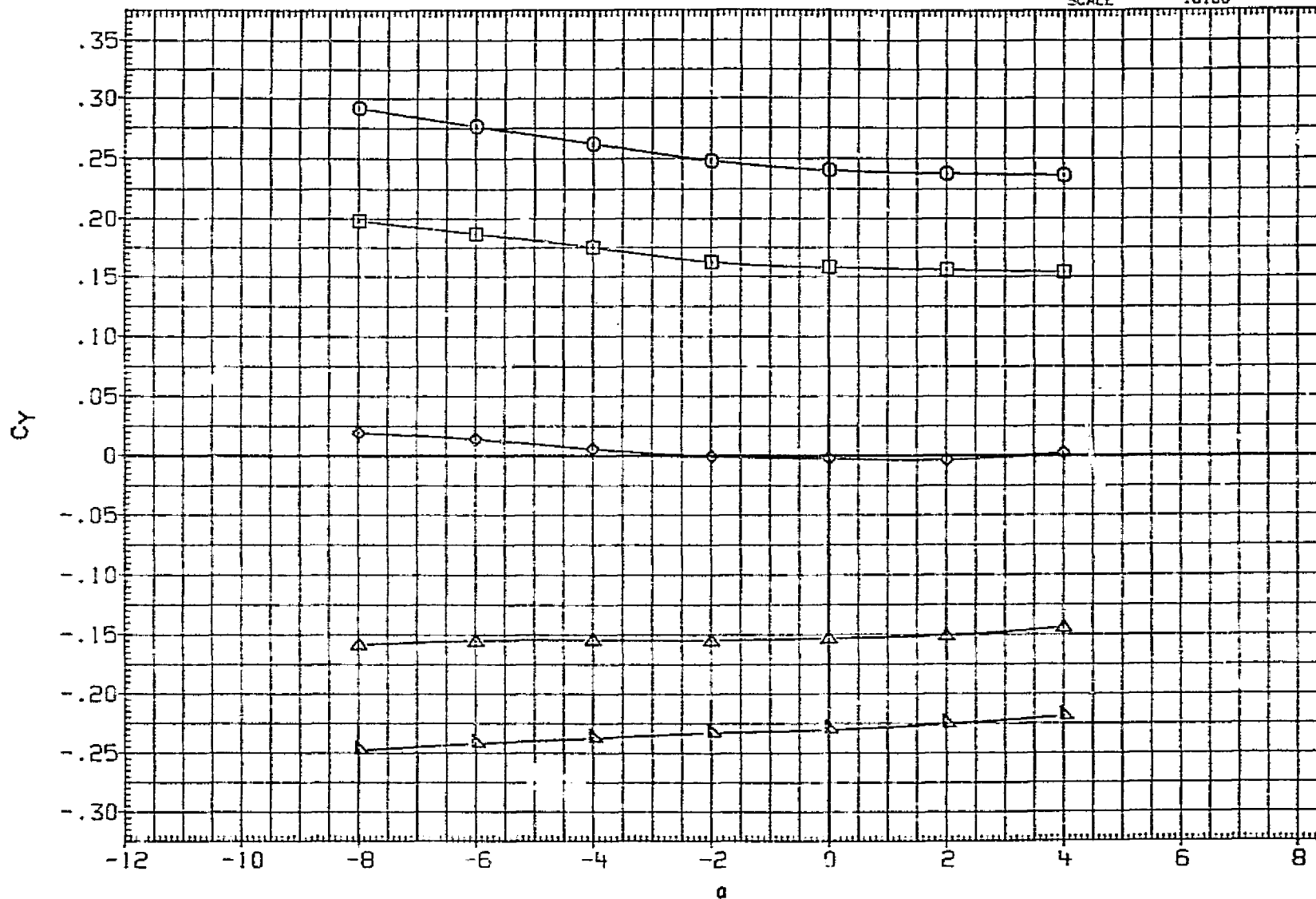


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2659.0000	SQ.FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1239.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1299.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

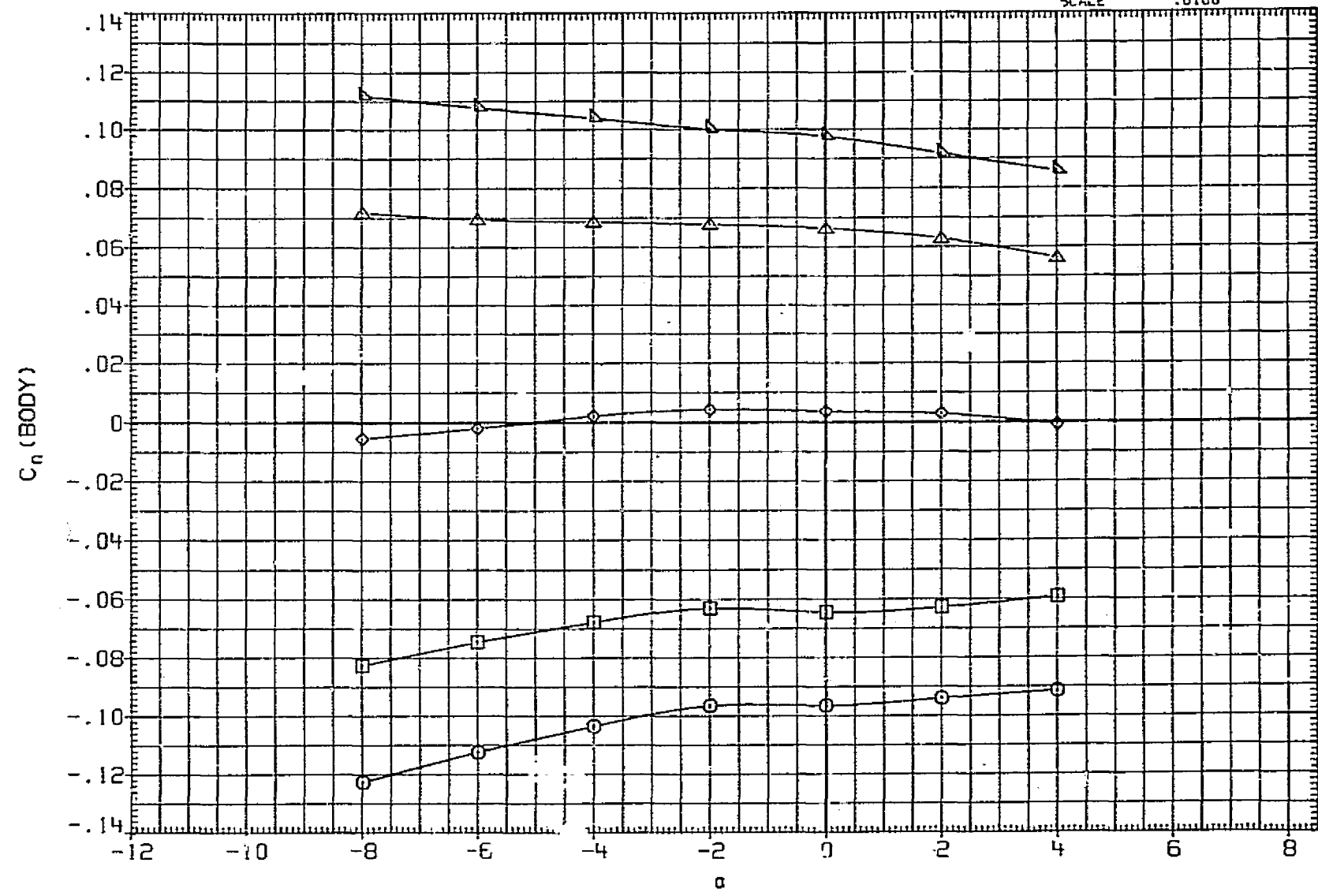


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LC	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ. FT.
MJJA08	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. Y1
MJJA11	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. Y1
								ZMRP	400.0000	IN. Z1
								SCALE	.0100	

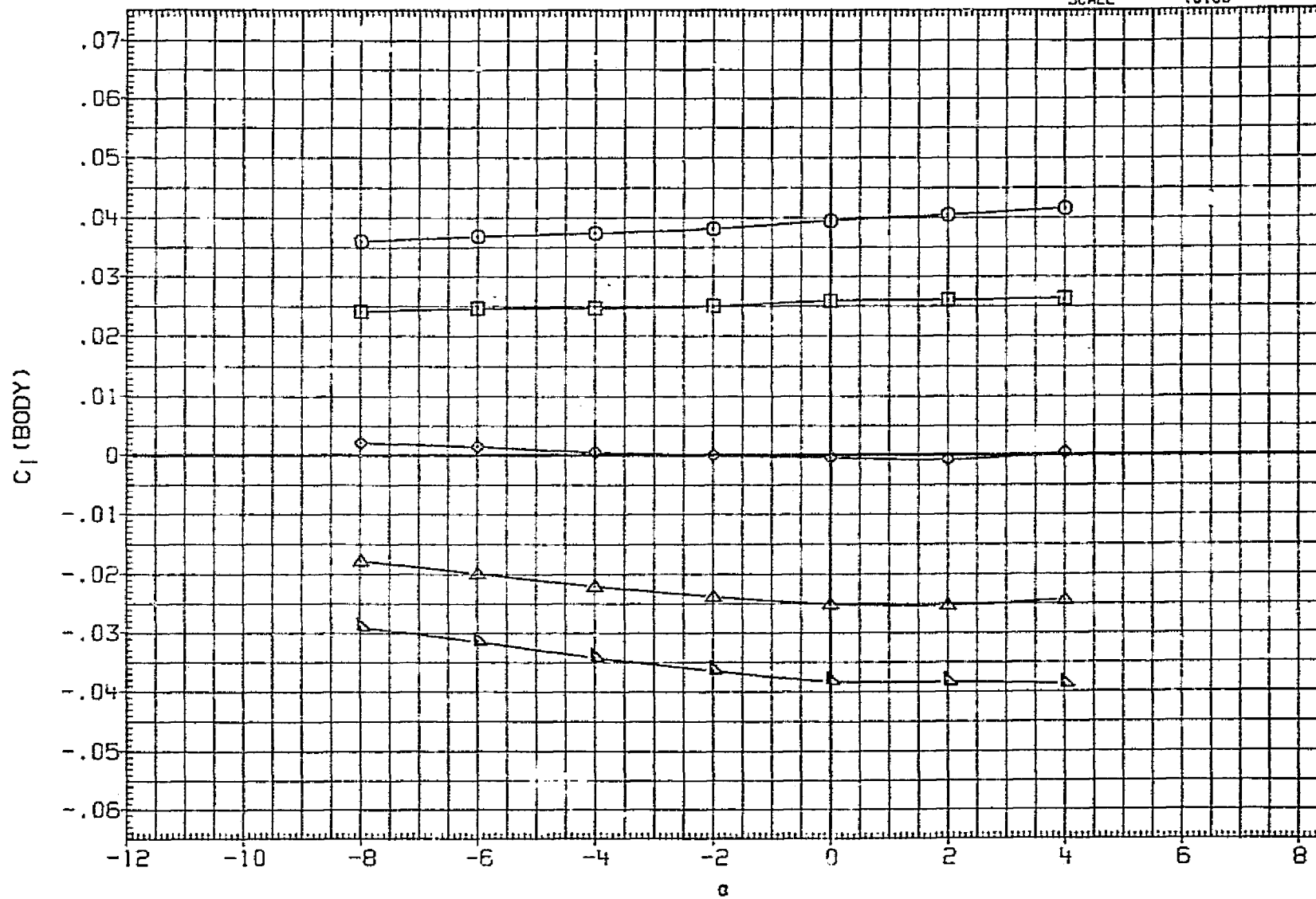


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJA08	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

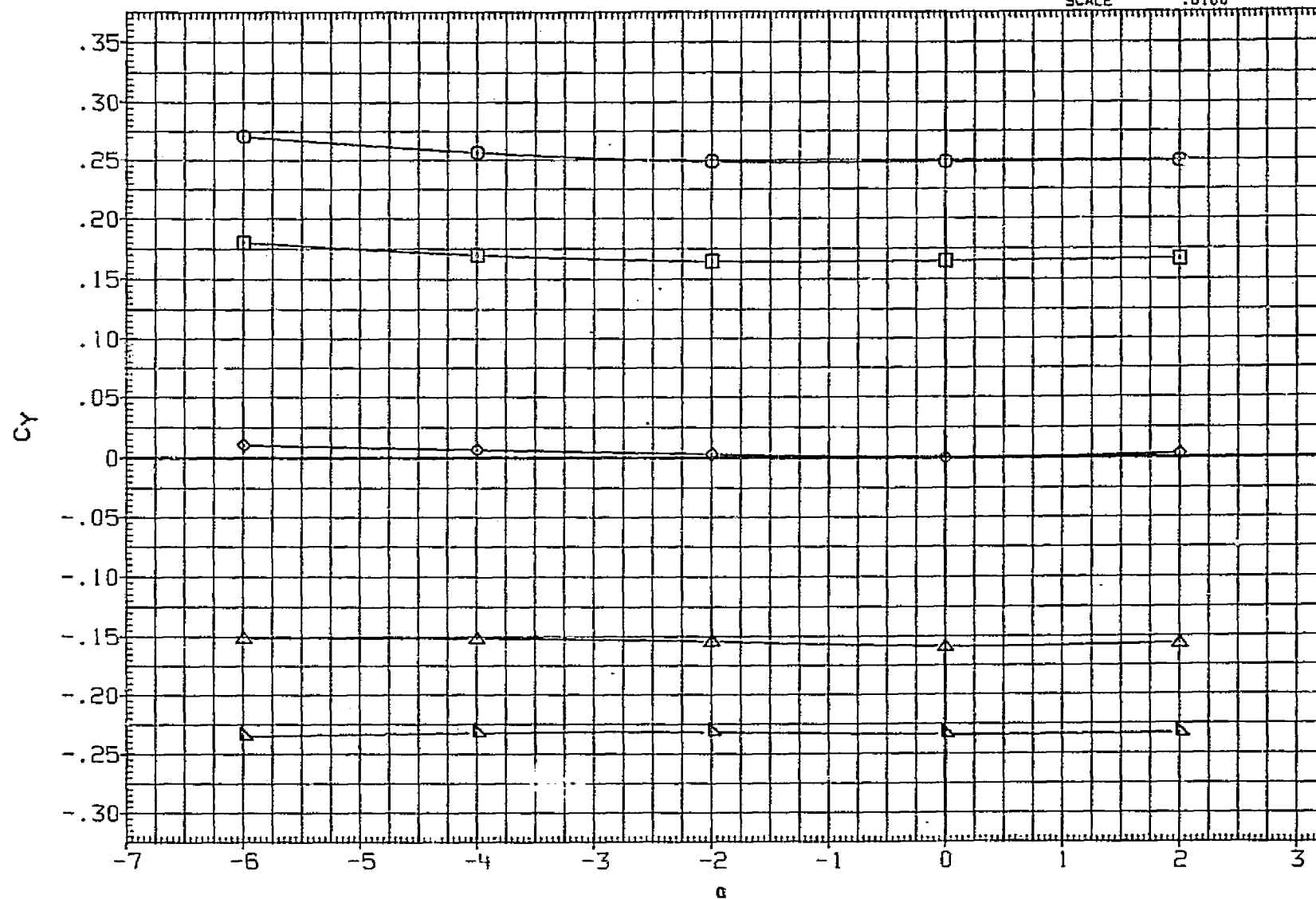


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ. FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

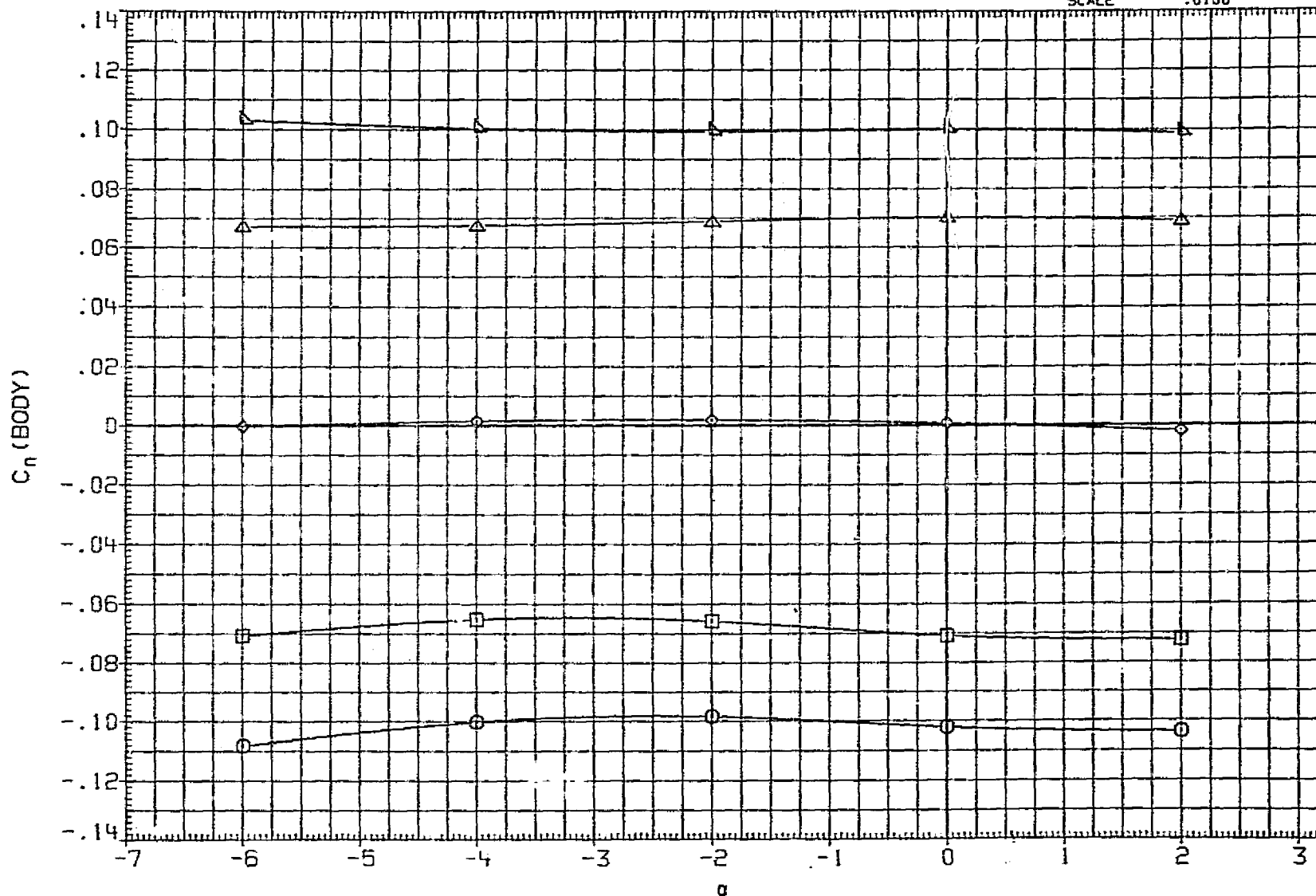


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50.FT.
MJJA08	□	LARC 8FT TPT 719 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

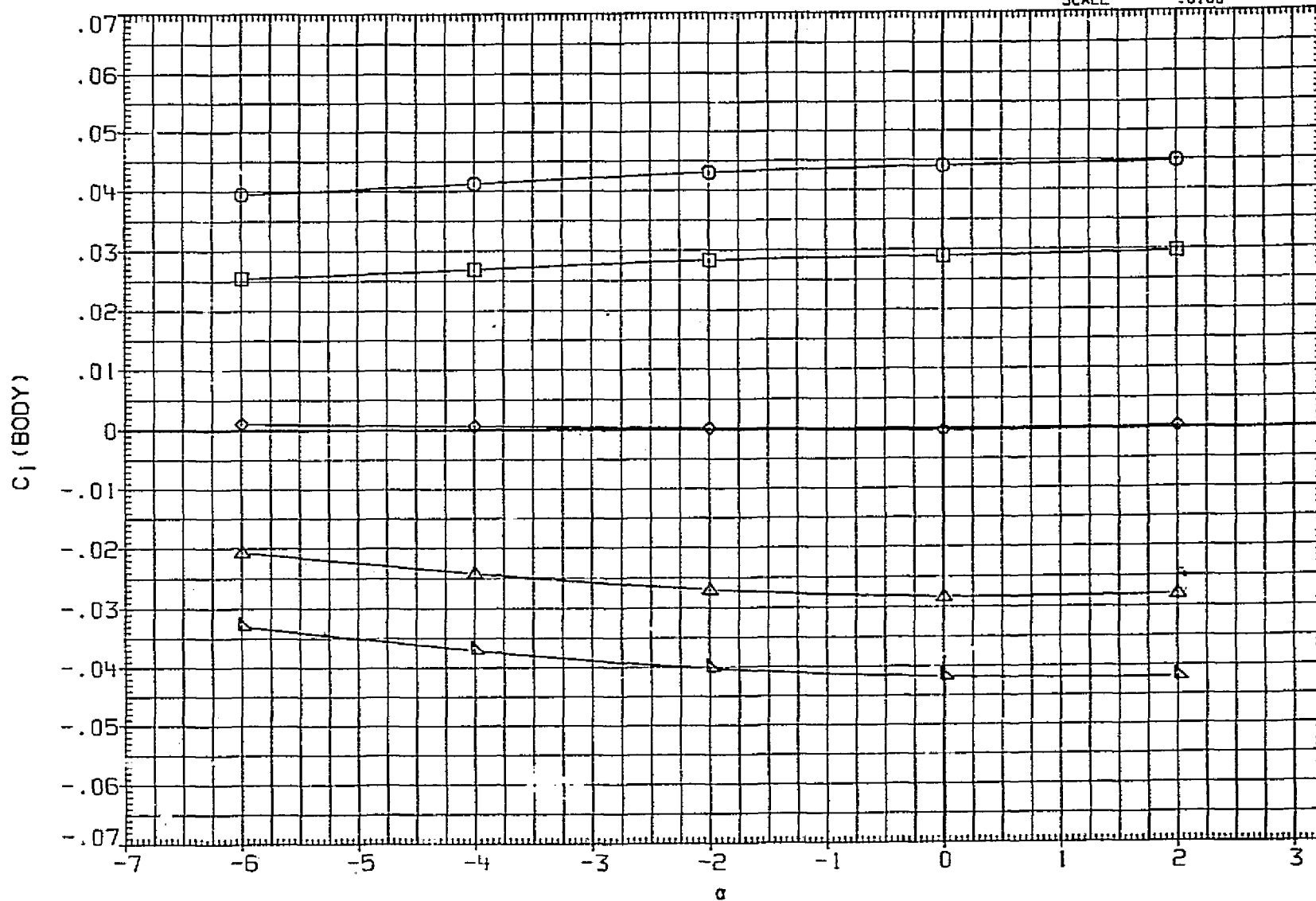


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ. FT.
MJJA08	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

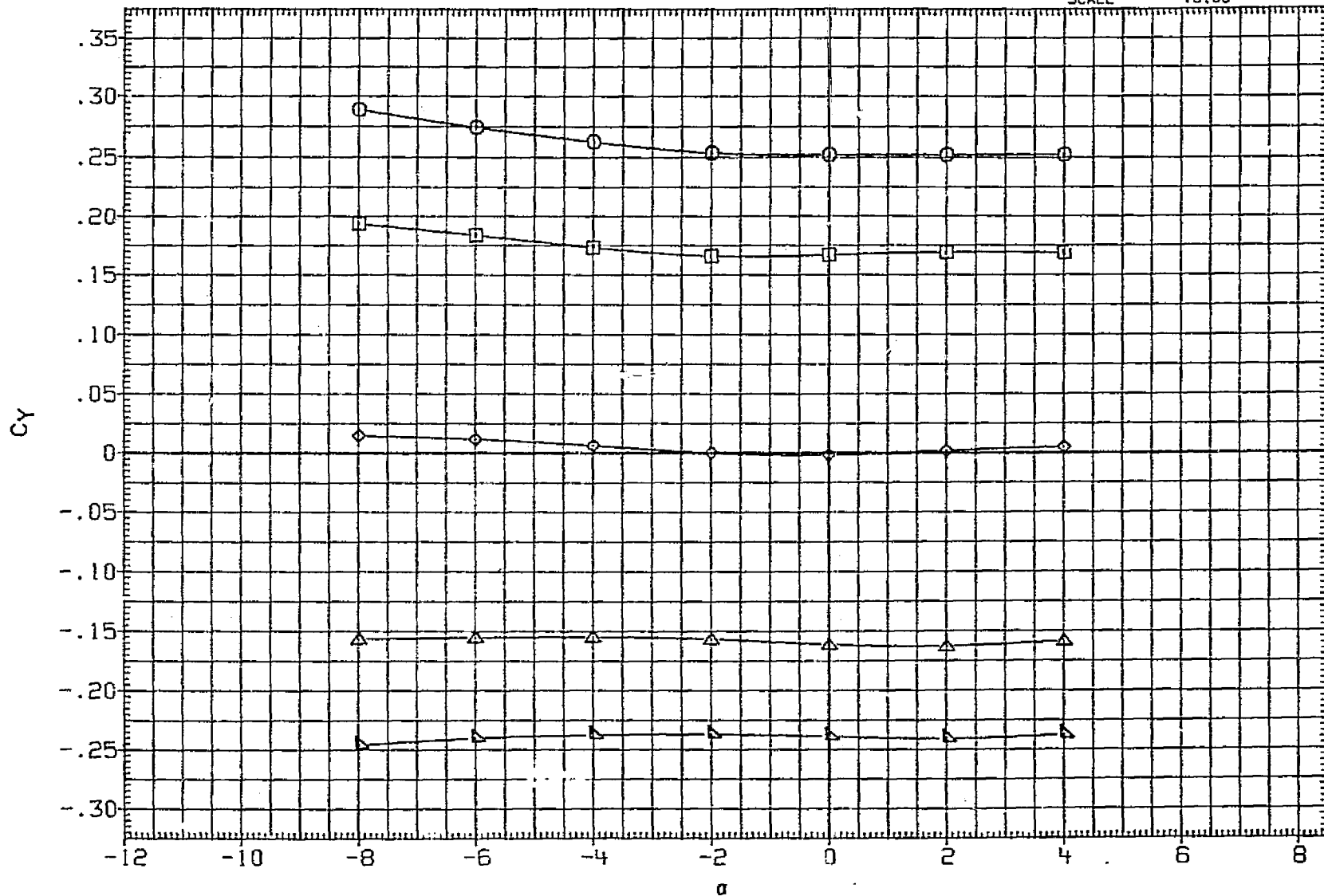


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000 SQ.FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000 INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	BREF	1290.3000 INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000 IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

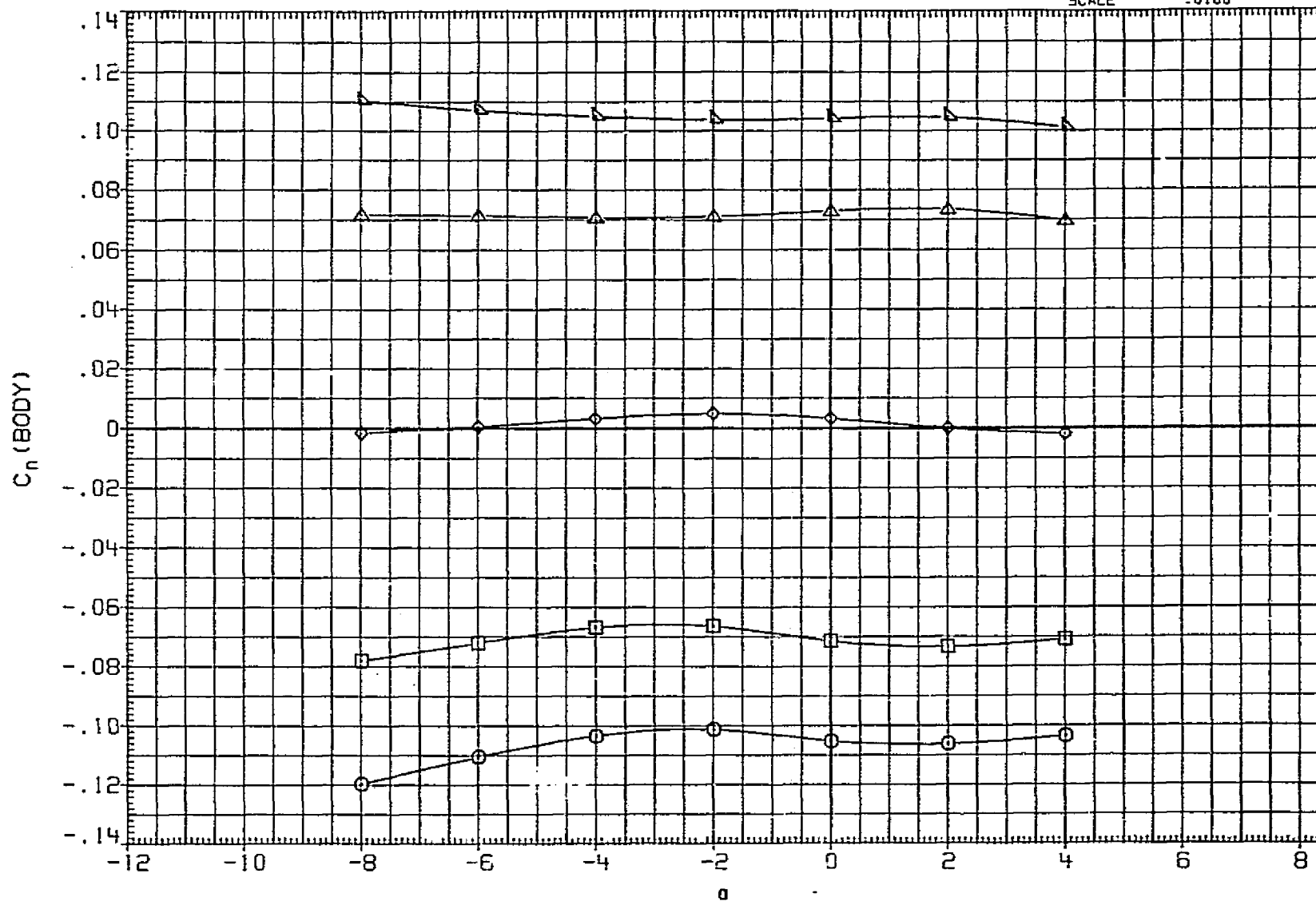


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LC	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

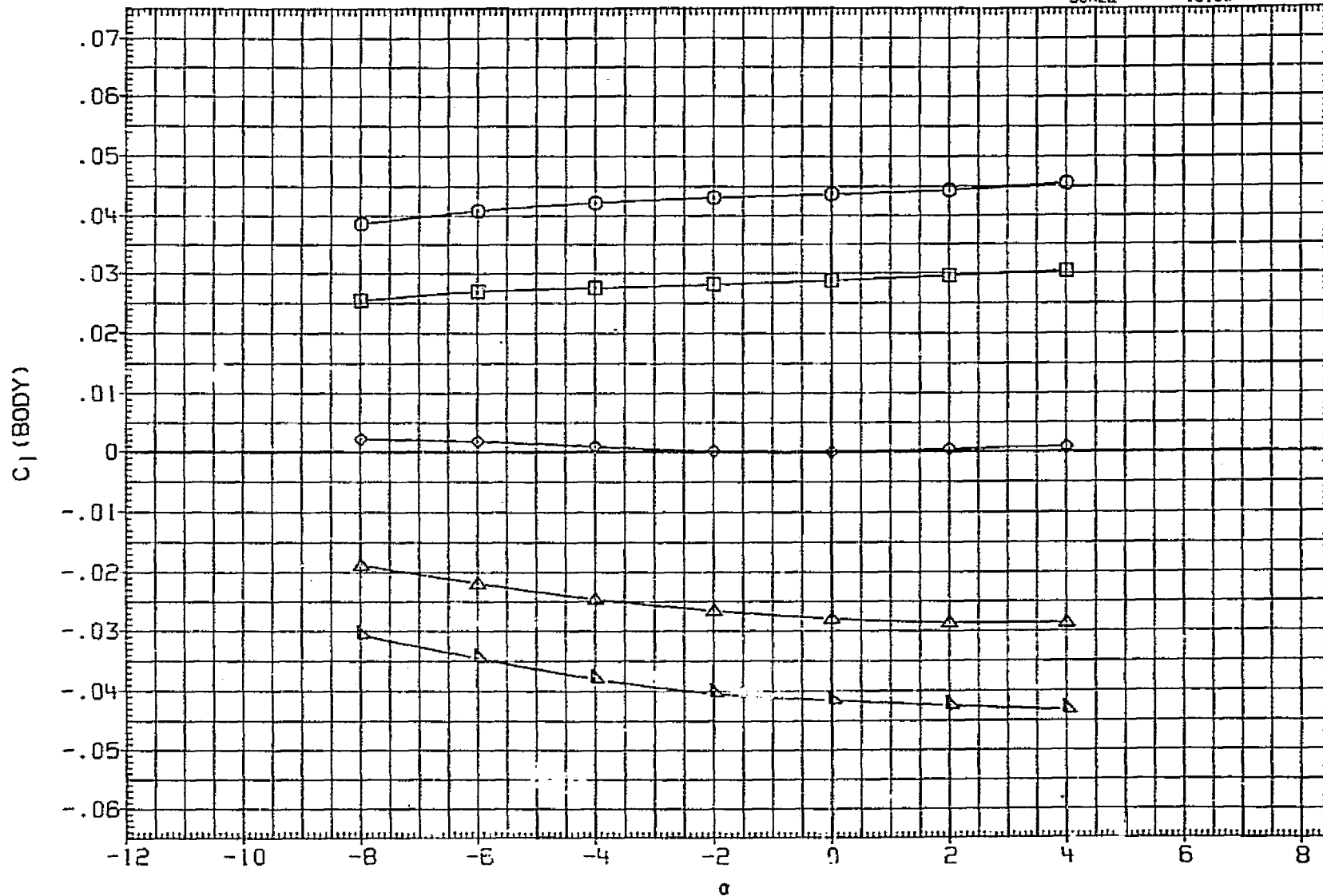


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000 SQ.FT.
MJJA13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000 INCHES
MJJA14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000 INCHES
MJJA15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000 IN. XT
MJJA16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

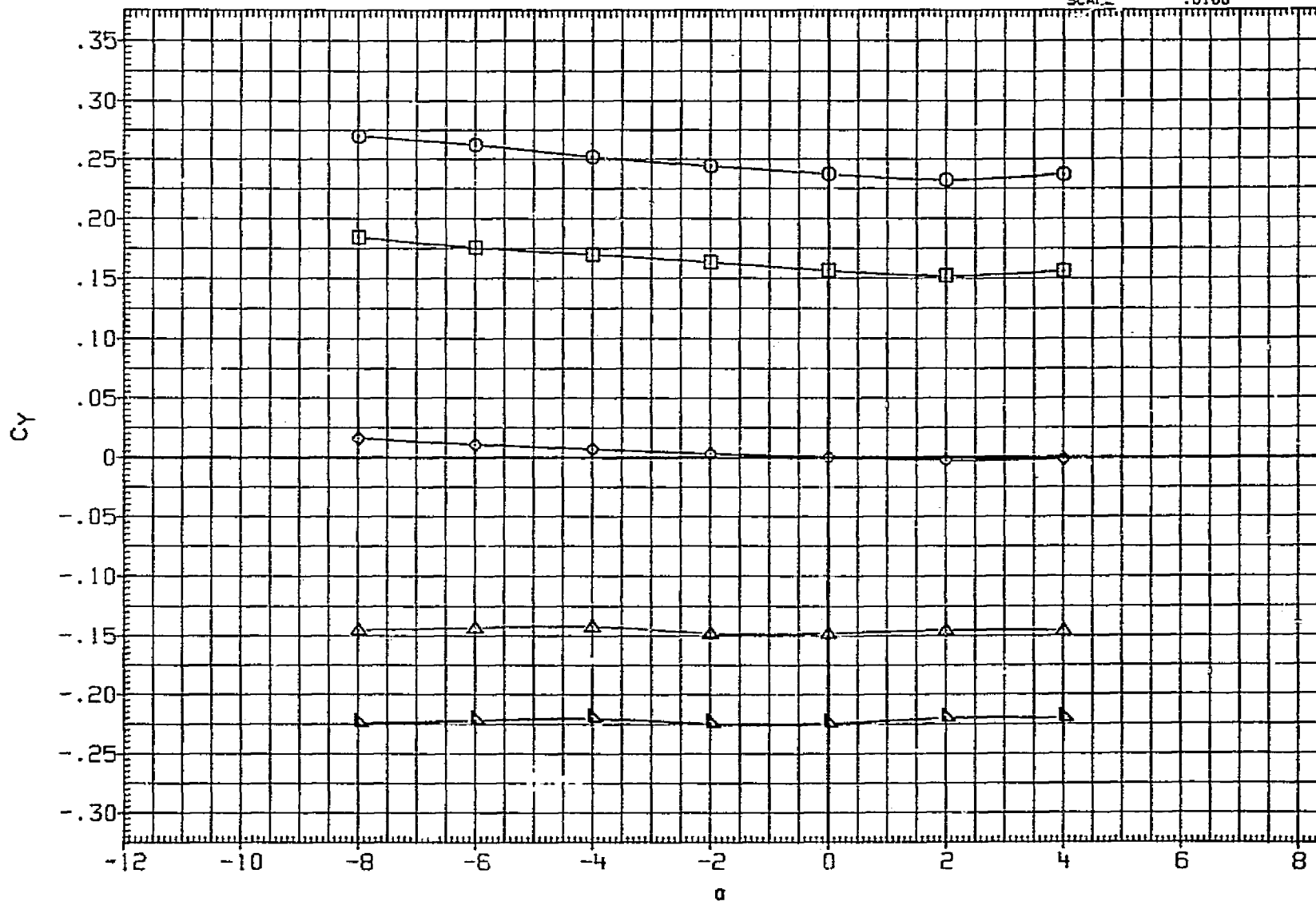


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA12	□ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	18.000	14.000	SREF	2590.0000	SQ. FT.
MJJA13	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJA14	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	18.000	14.000	BREF	1290.3000	INCHES
MJJA15	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJA16	△ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

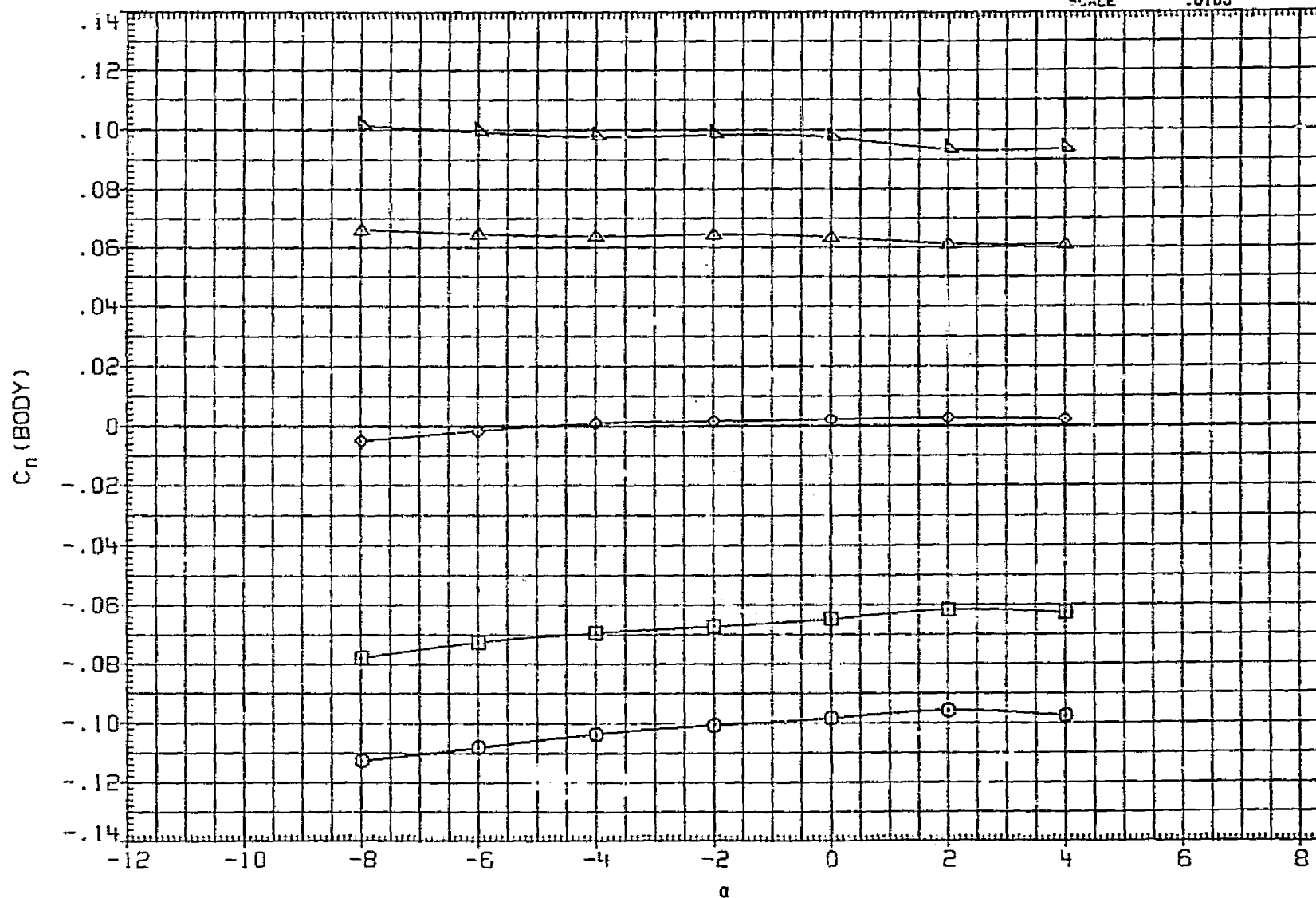


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2590.0000	SQ. FT.
MJJA13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.600	14.000	LREF	1290.3000	INCHES
MJJA14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJA15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.600	10.000	14.000	XMRP	976.0000	IN. XT
MJJA16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

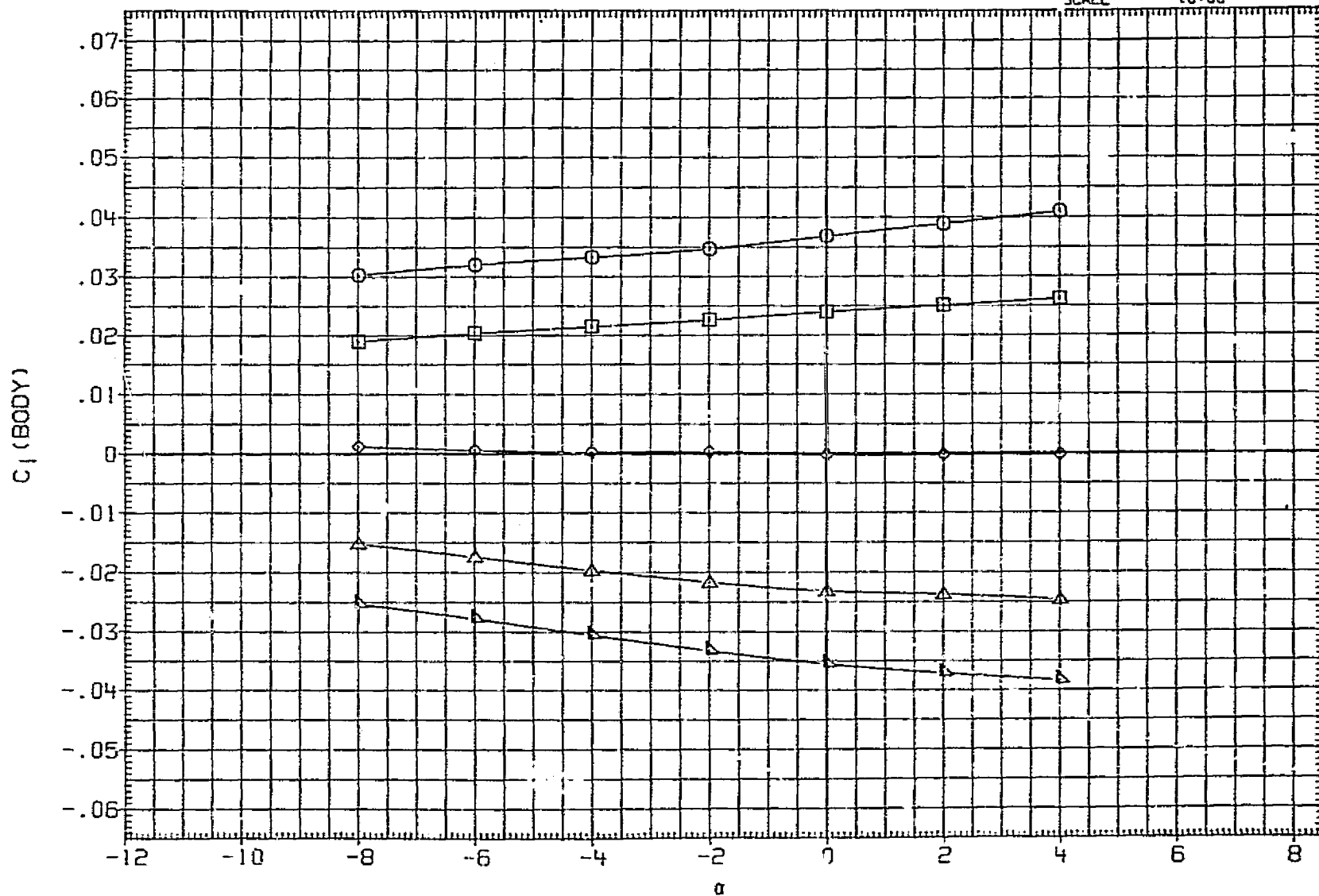


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MUJA12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SRSP	2880.0000	50. FT
MUJA13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LRSP	1280.0000	100. FT
MUJA14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	RRSP	1270.0000	100. FT
MUJA15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XRSP	970.0000	10. FT
MUJA16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YRSP	400.0000	10. FT
								ZRSP	406.0000	10. FT
								SCALE	.0100	

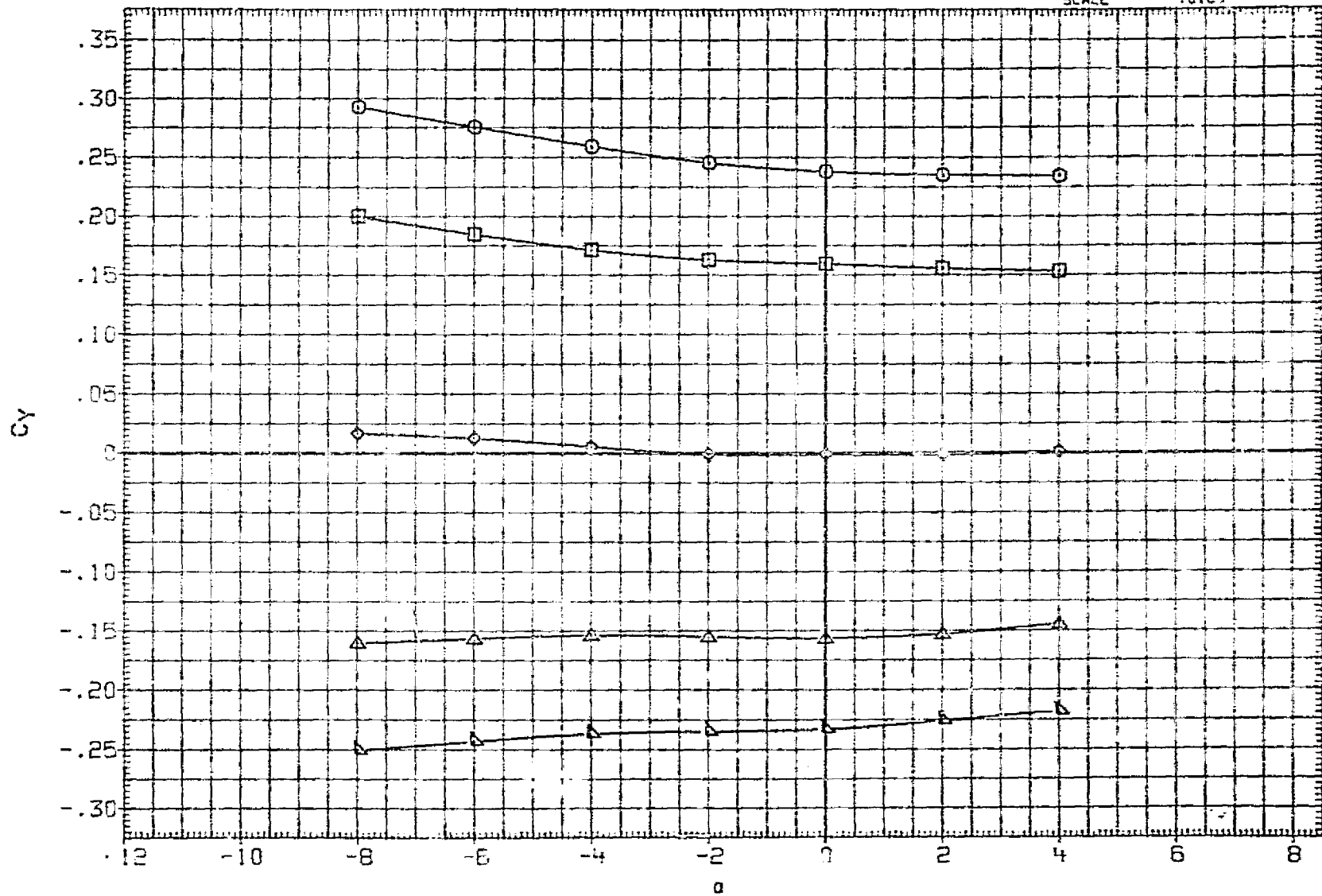


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	SQ.FT.
MJJA13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJA14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJA15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJA16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

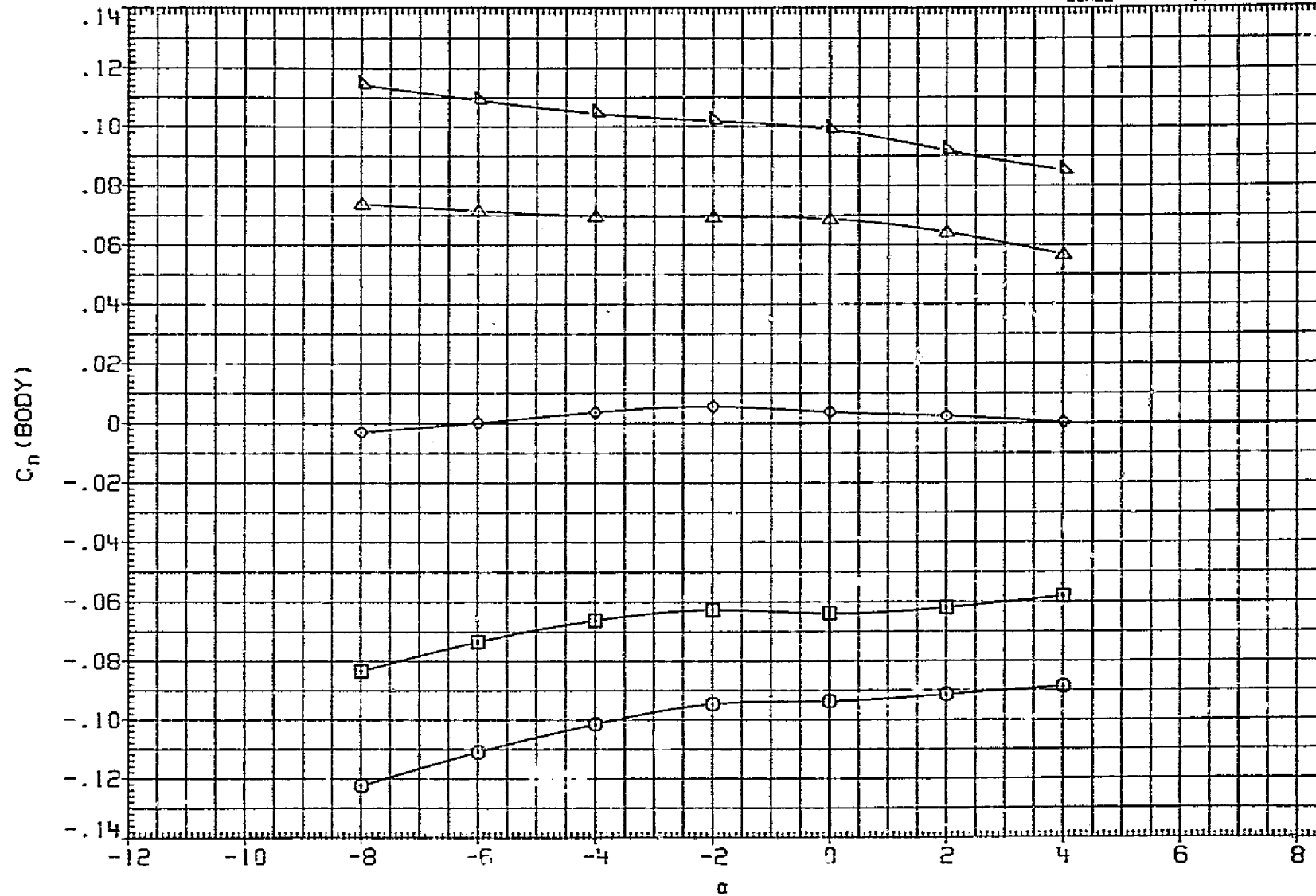


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION
MJJA12	○	LARC 6FT TPT 749 (A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	REF 260.0000 IN. ZT
MJJA13	□	LARC 6FT TPT 749 (A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	REF 180.0000 IN. ZT
MJJA14	◇	LARC 6FT TPT 749 (A93) OTSAT130	.000	10.000	14.000	10.000	14.000	REF 120.0000 IN. ZT
MJJA15	△	LARC 6FT TPT 749 (A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	REF 975.0000 IN. ZT
MJJA16	▽	LARC 6FT TPT 749 (A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	REF 400.0000 IN. ZT
								SCALE .0100



FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

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DATA SET SYMBOL	CONFIGURATION
MJJA17	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA18	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA19	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA20	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA21	LARC 8FT TPT 749 (1A93) OTSAT130

BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000 SQ.FT.
-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000 INCHES
.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000 INCHES
4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000 IN. XT
6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000 IN. YT
					ZMRP	400.0000 IN. ZT
					SCALE	.0100

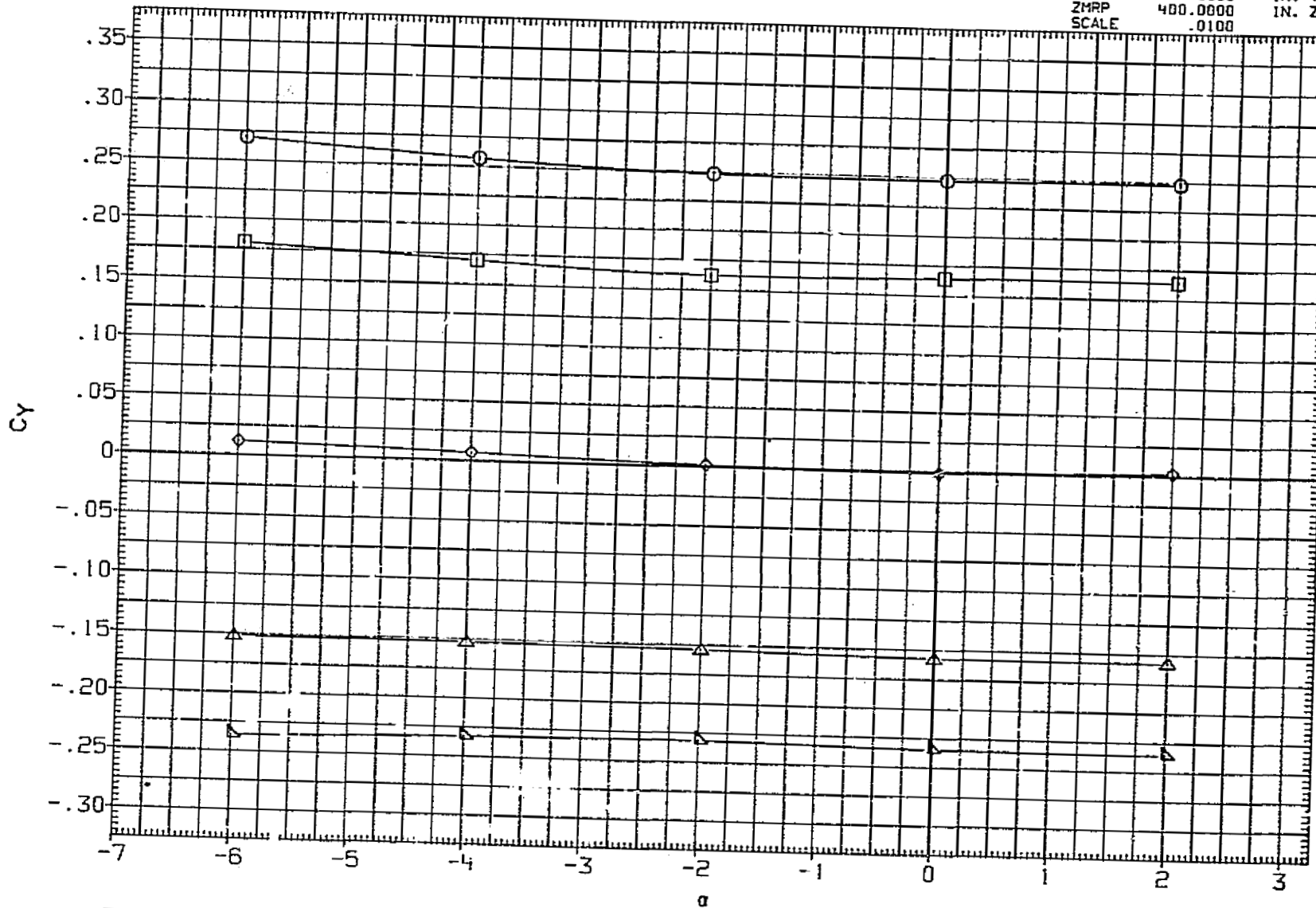


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50. FT.
MJJA18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.6000	IN. ZT
								SCALE	.0100	

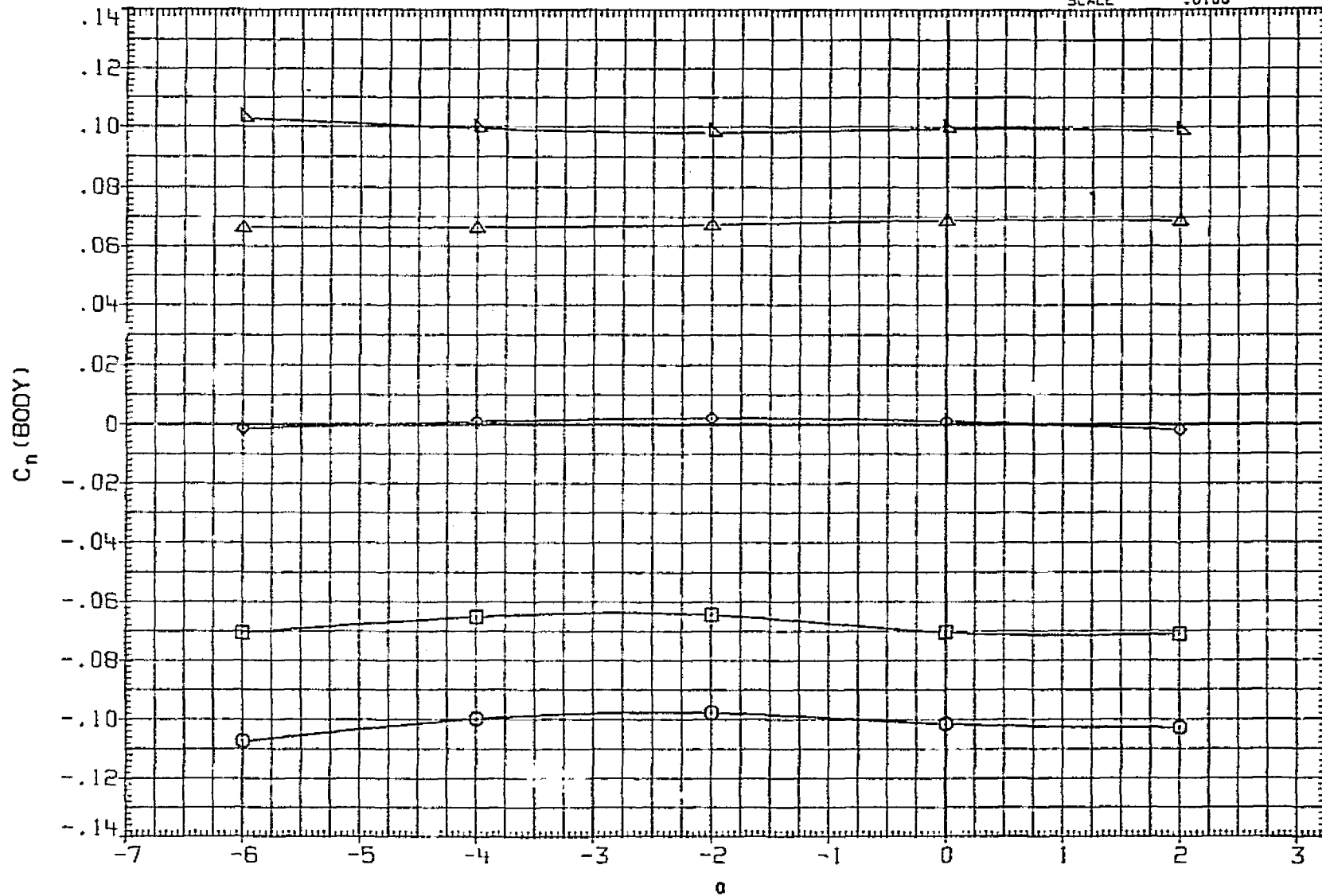


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○	LARC 8FT TPT 749 (A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2890.0000	SQ.
MJJA18	□	LARC 8FT TPT 749 (A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INC
MJJA19	◇	LARC 8FT TPT 749 (A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INC
MJJA20	△	LARC 8FT TPT 749 (A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN.
MJJA21	▽	LARC 8FT TPT 749 (A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN.
								ZMRP	400.0000	IN.
								SCALE	.0100	

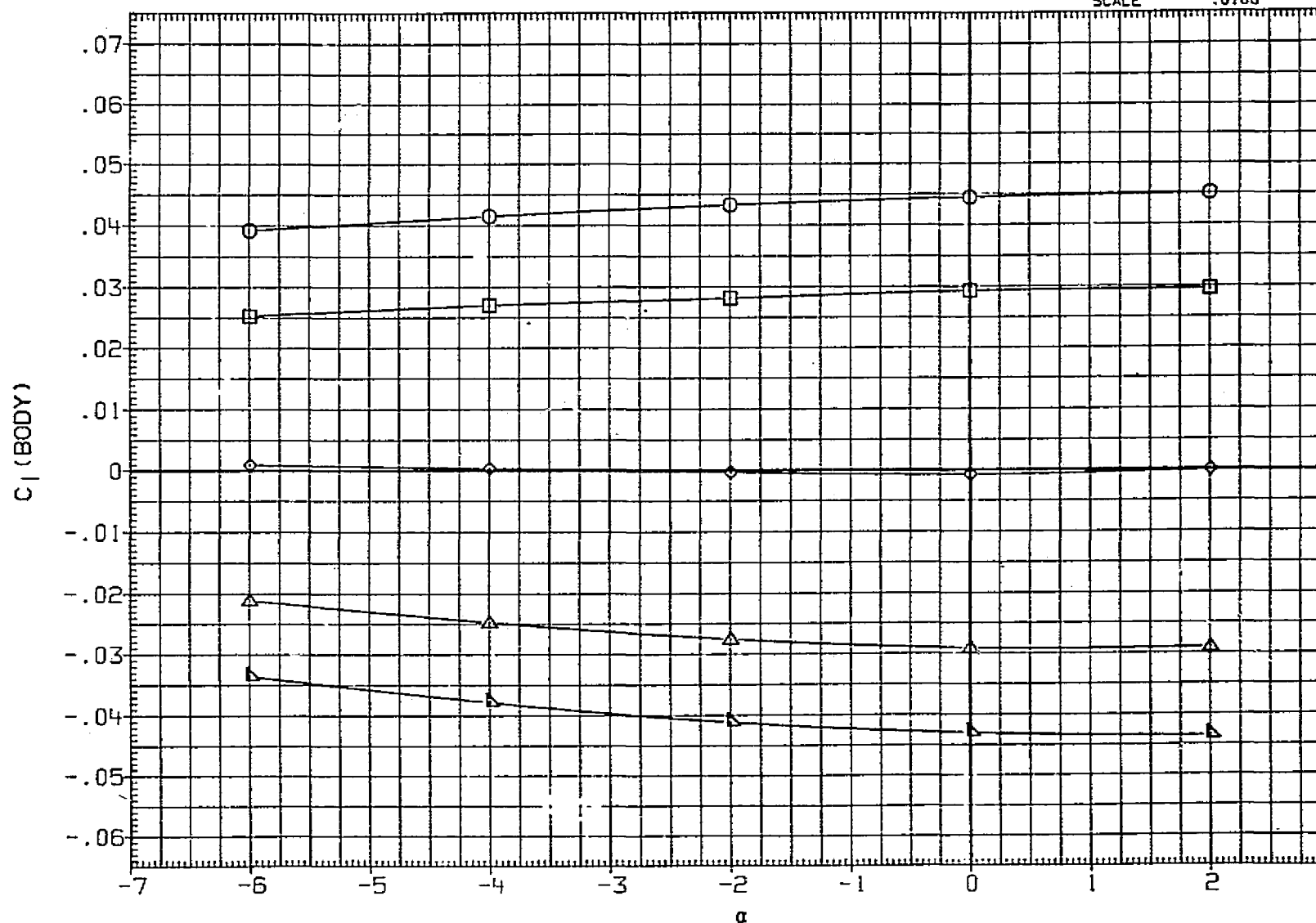


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	SQ.FT.
MJJA18	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

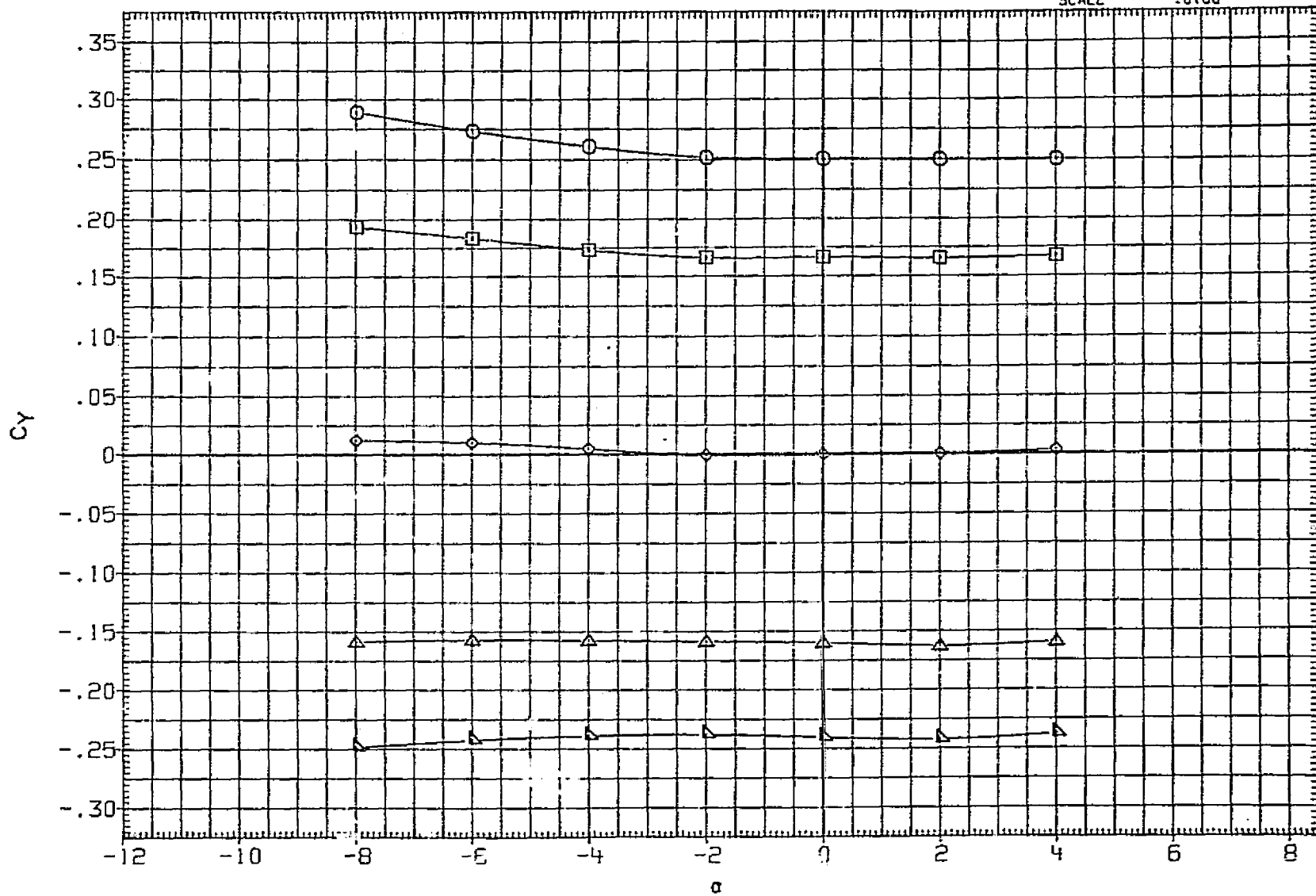


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50.FT.
MJJA18	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

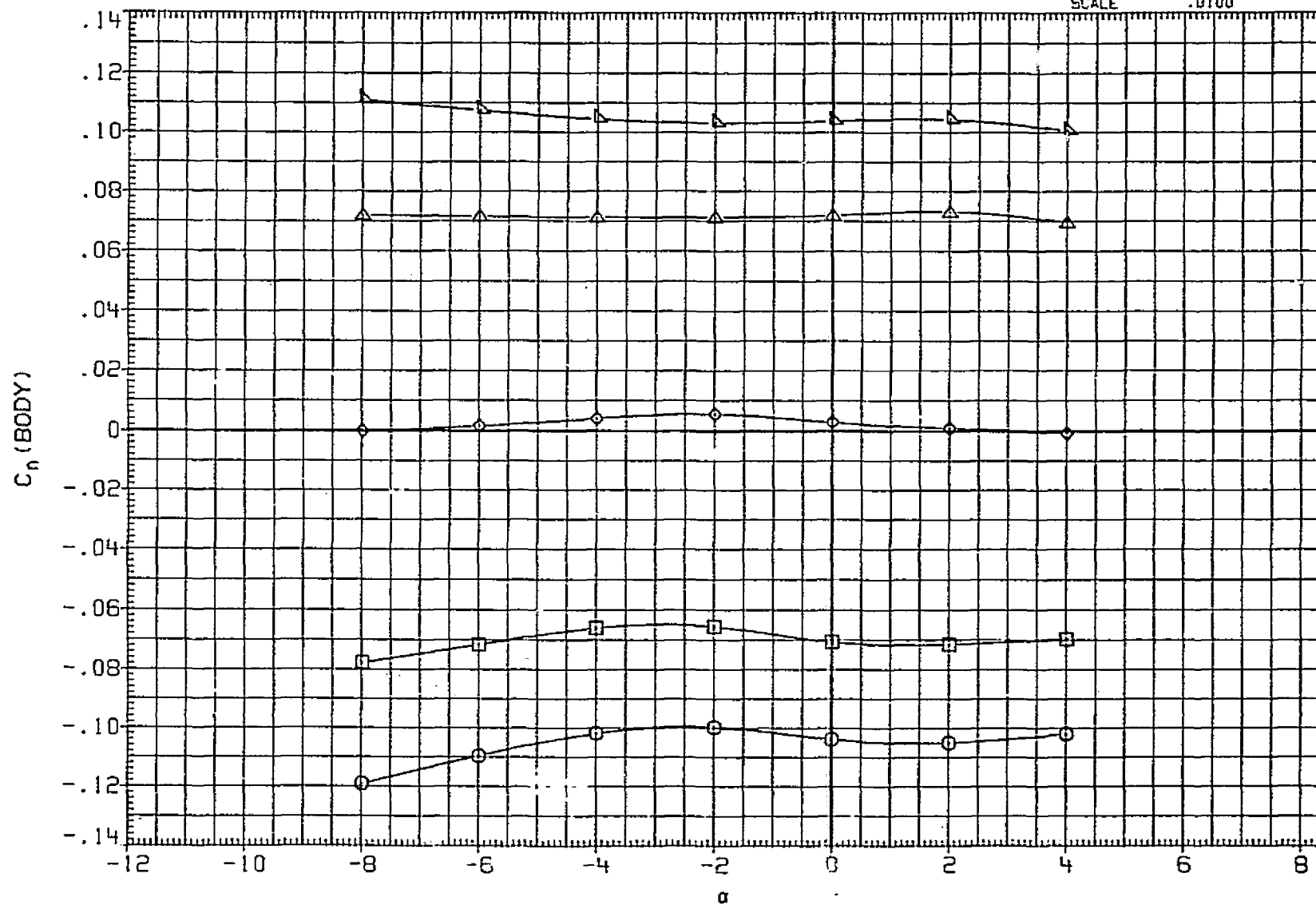


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50. FT.
MJJA18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

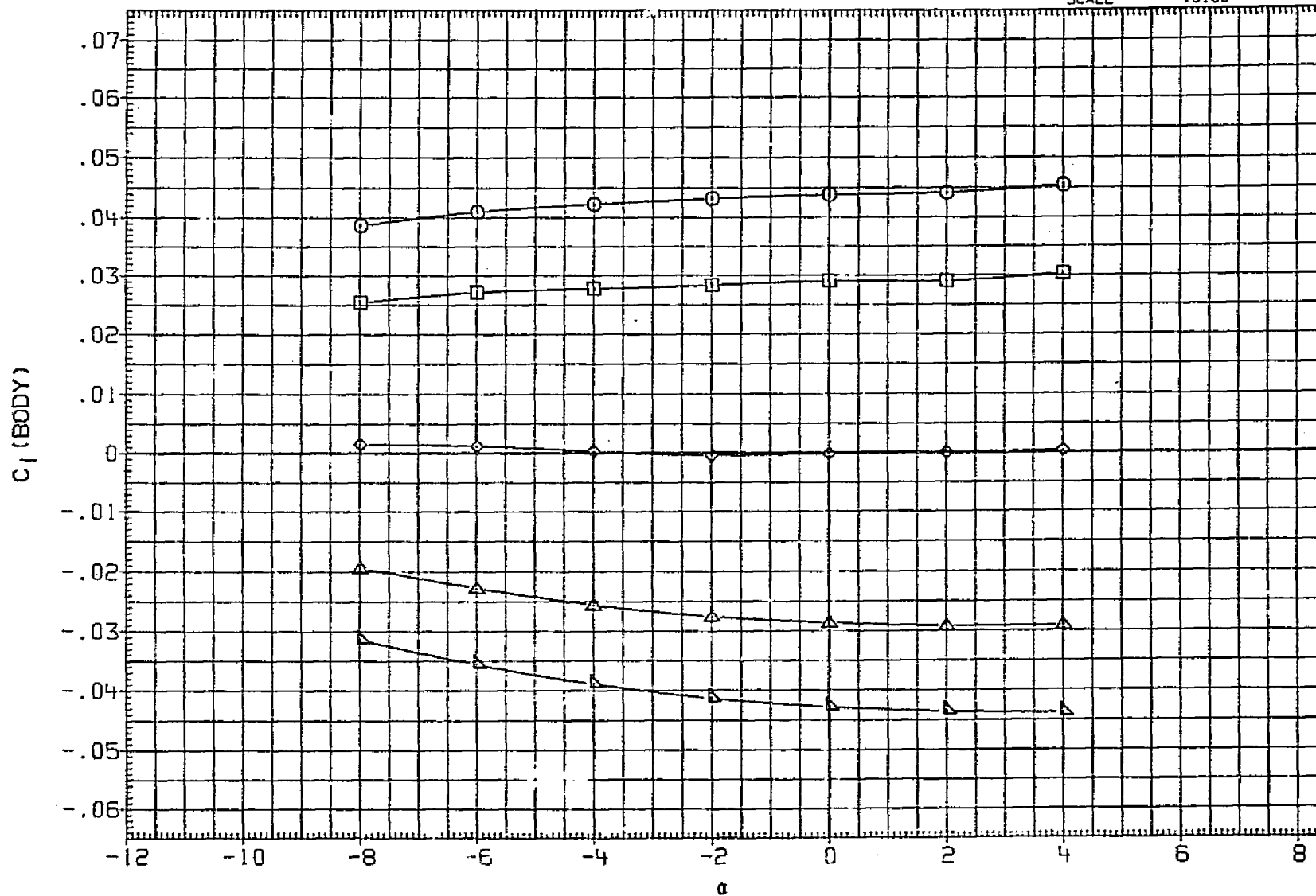


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA22	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	SQ.FT.
MJJA23	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1296.3000	INCHES
MJJA24	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1296.3000	INCHES
MJJA25	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

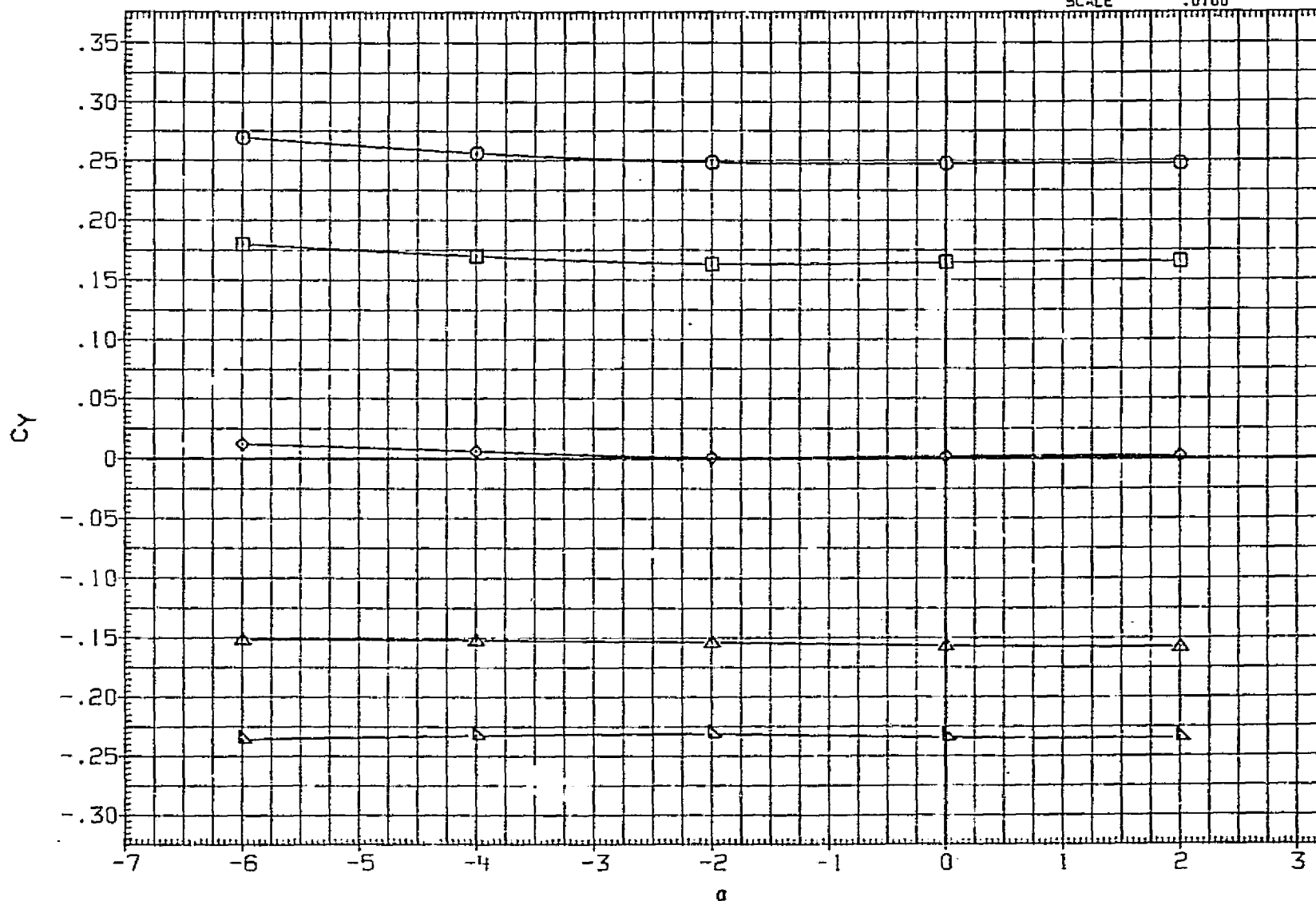


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA22	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJA23	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

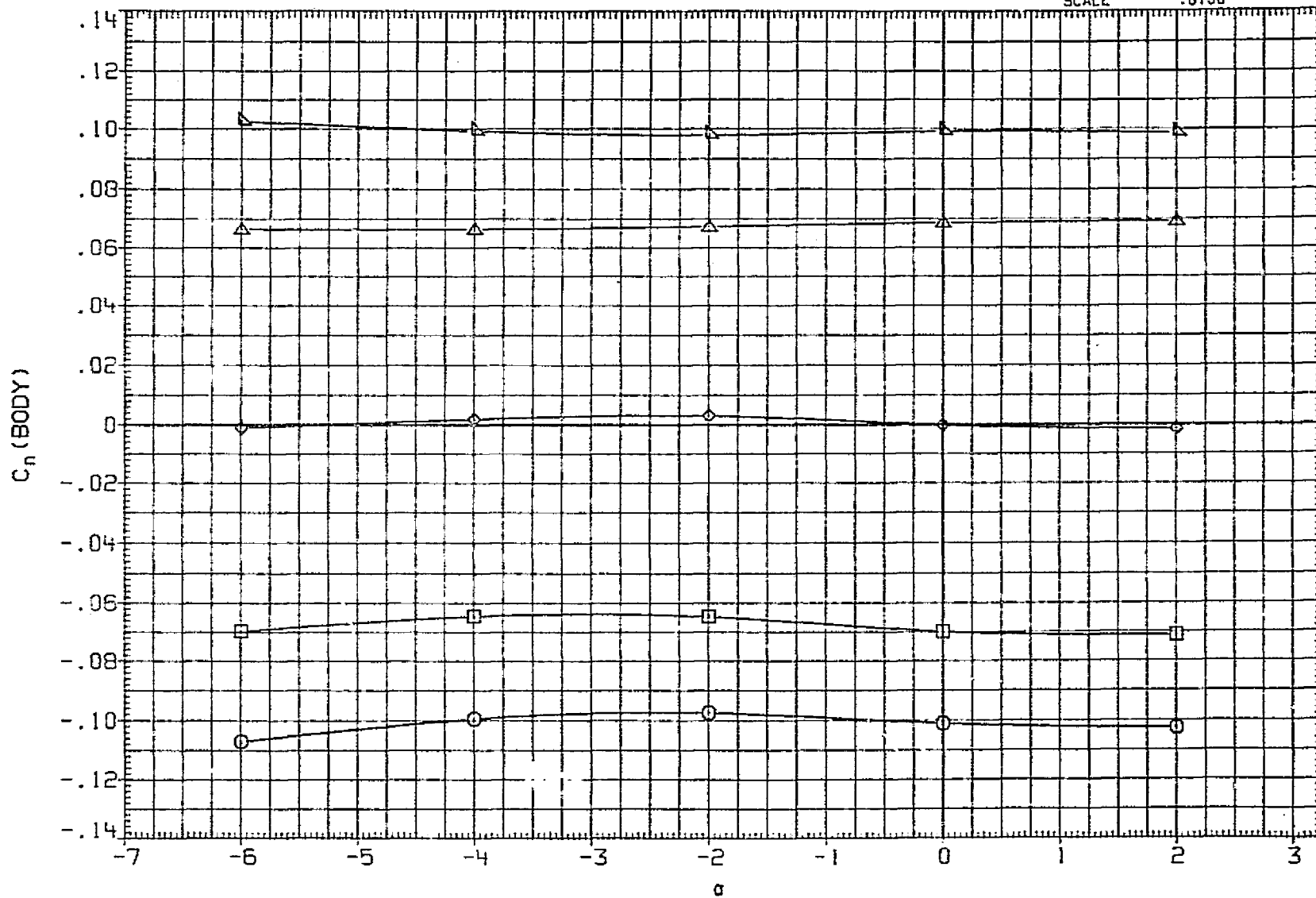


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJA23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

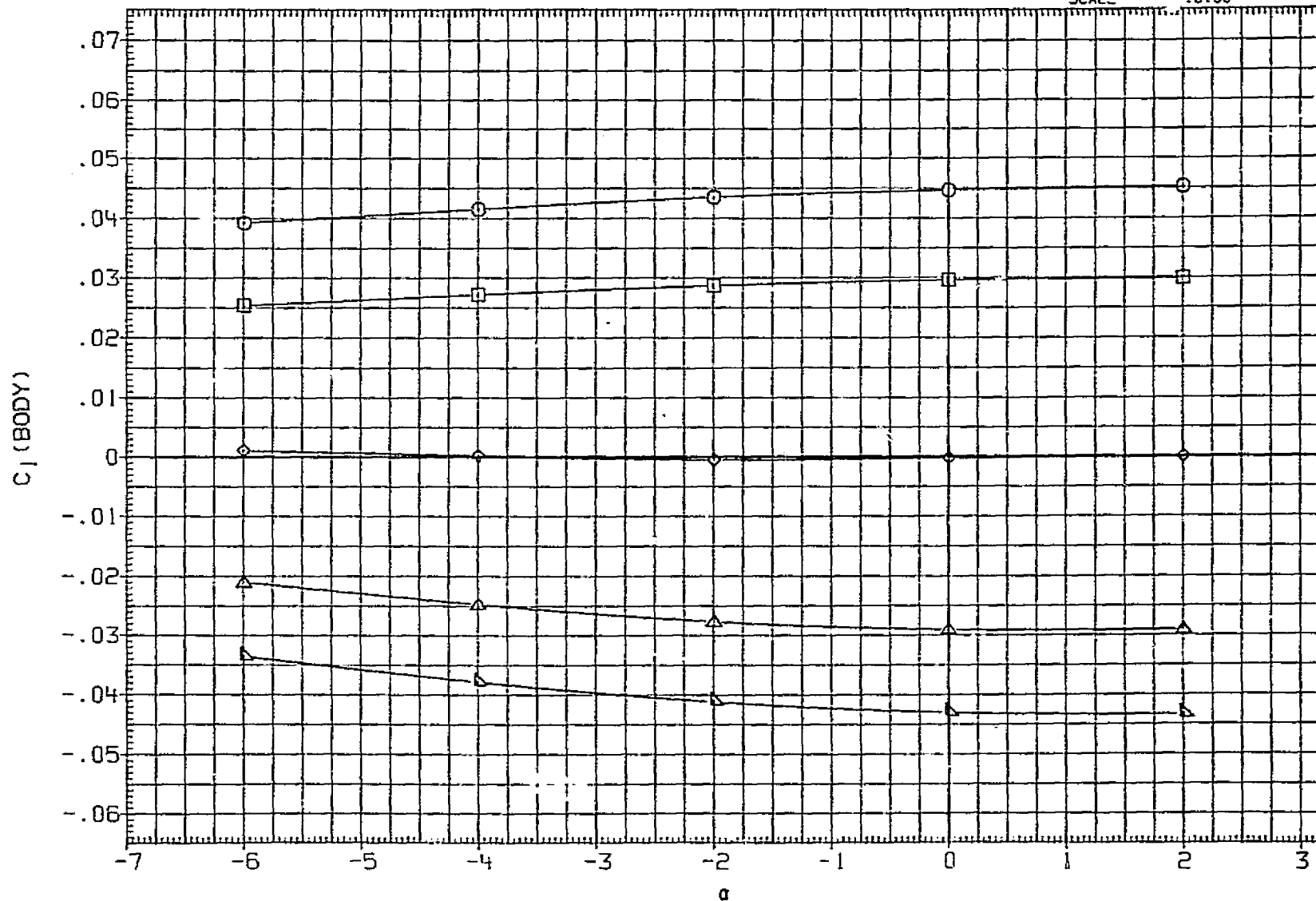


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA22	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	SQ. FT.
MJJA23	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

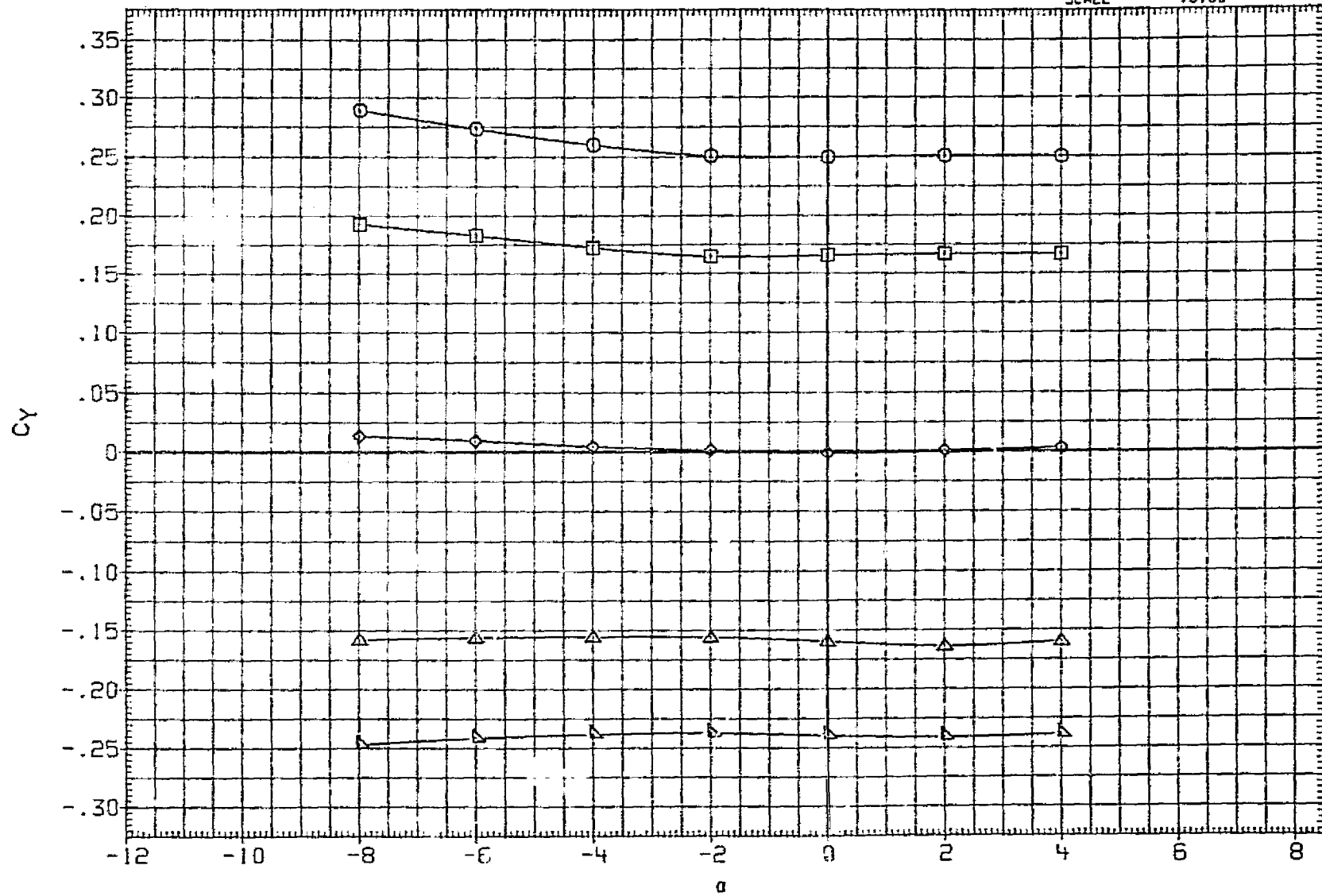


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA22	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50.FT.
MJJA23	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽ LARC 8FT TP(749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

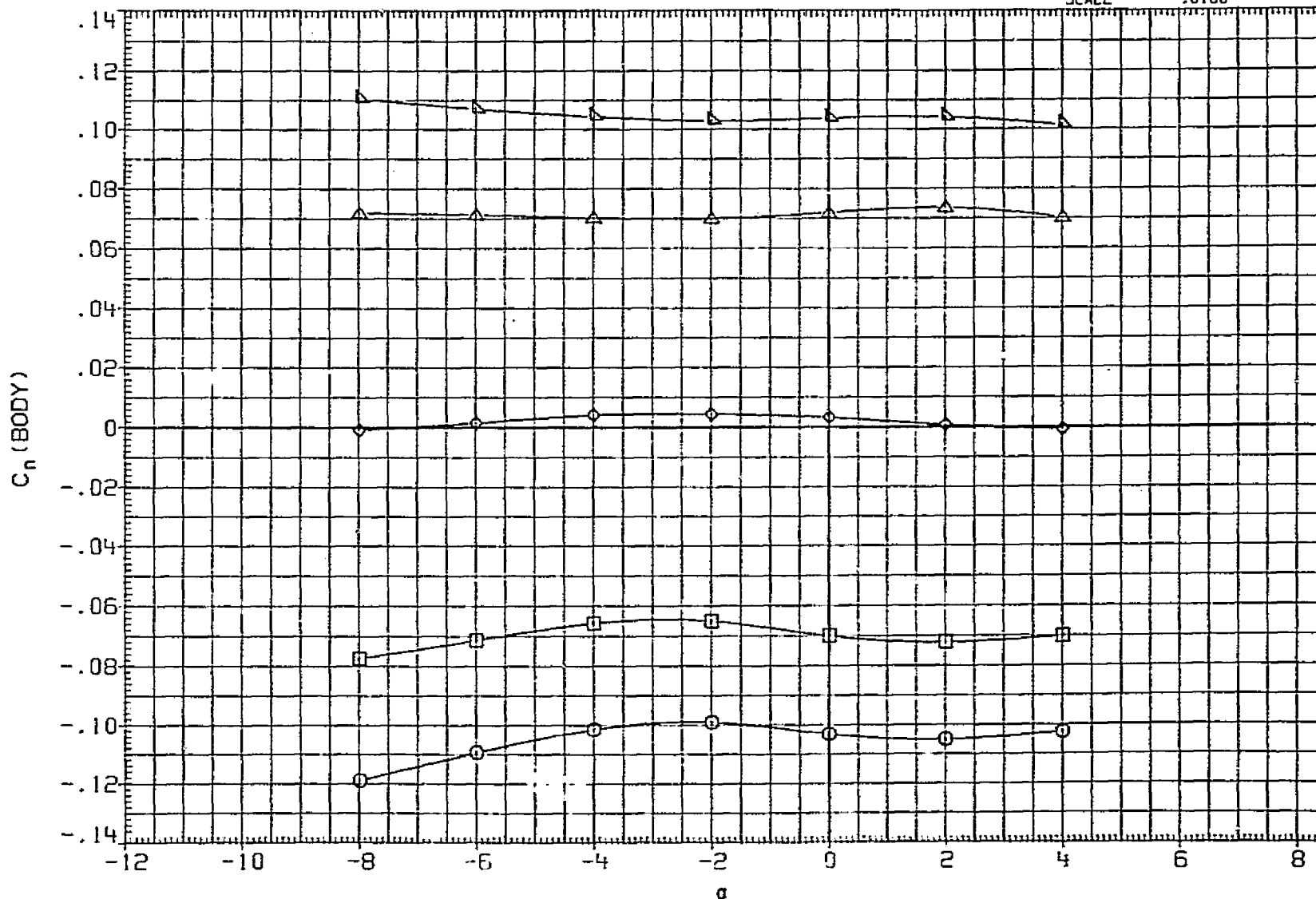


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA22	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJA23	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

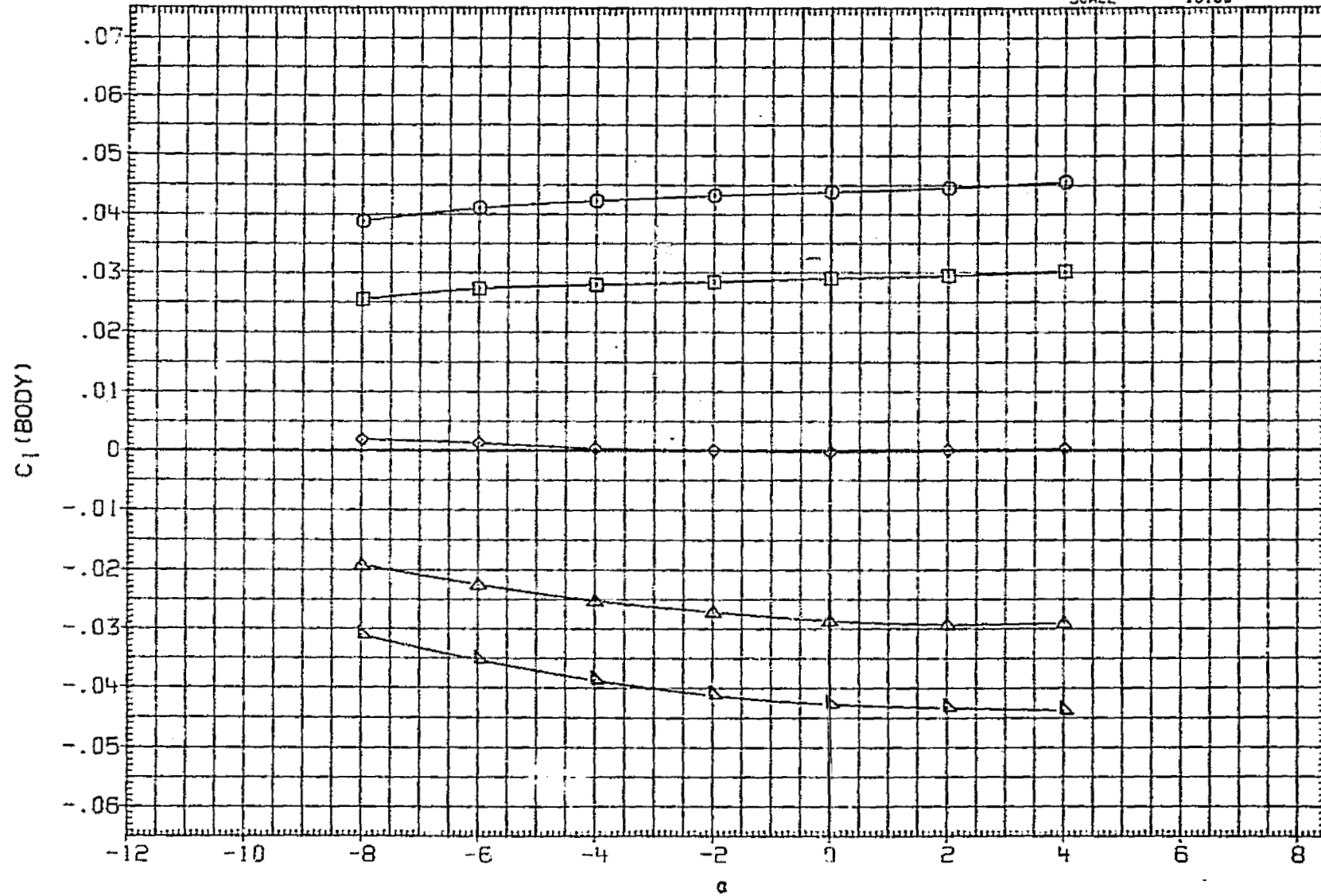


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SO.FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

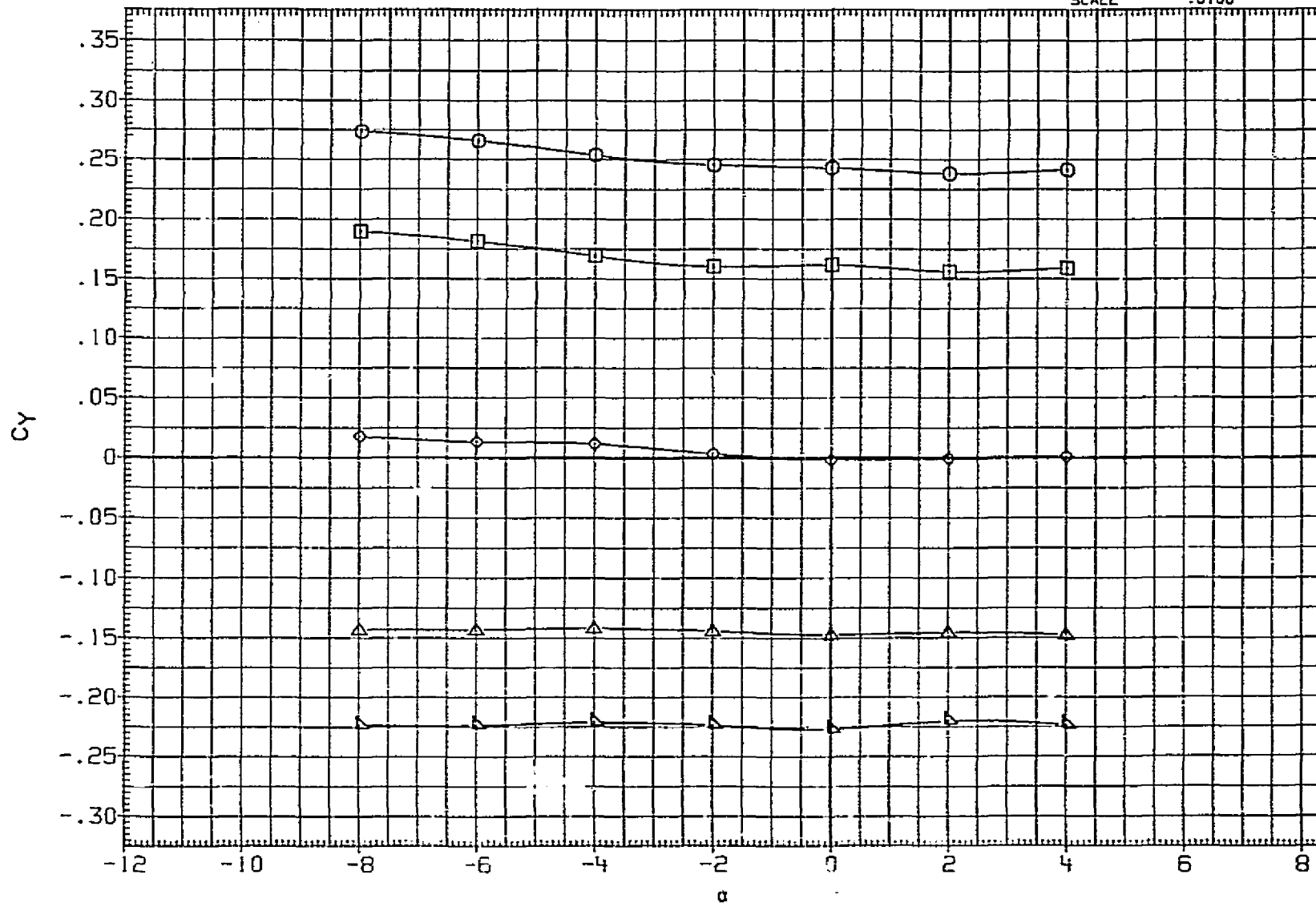


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	97E. 1000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

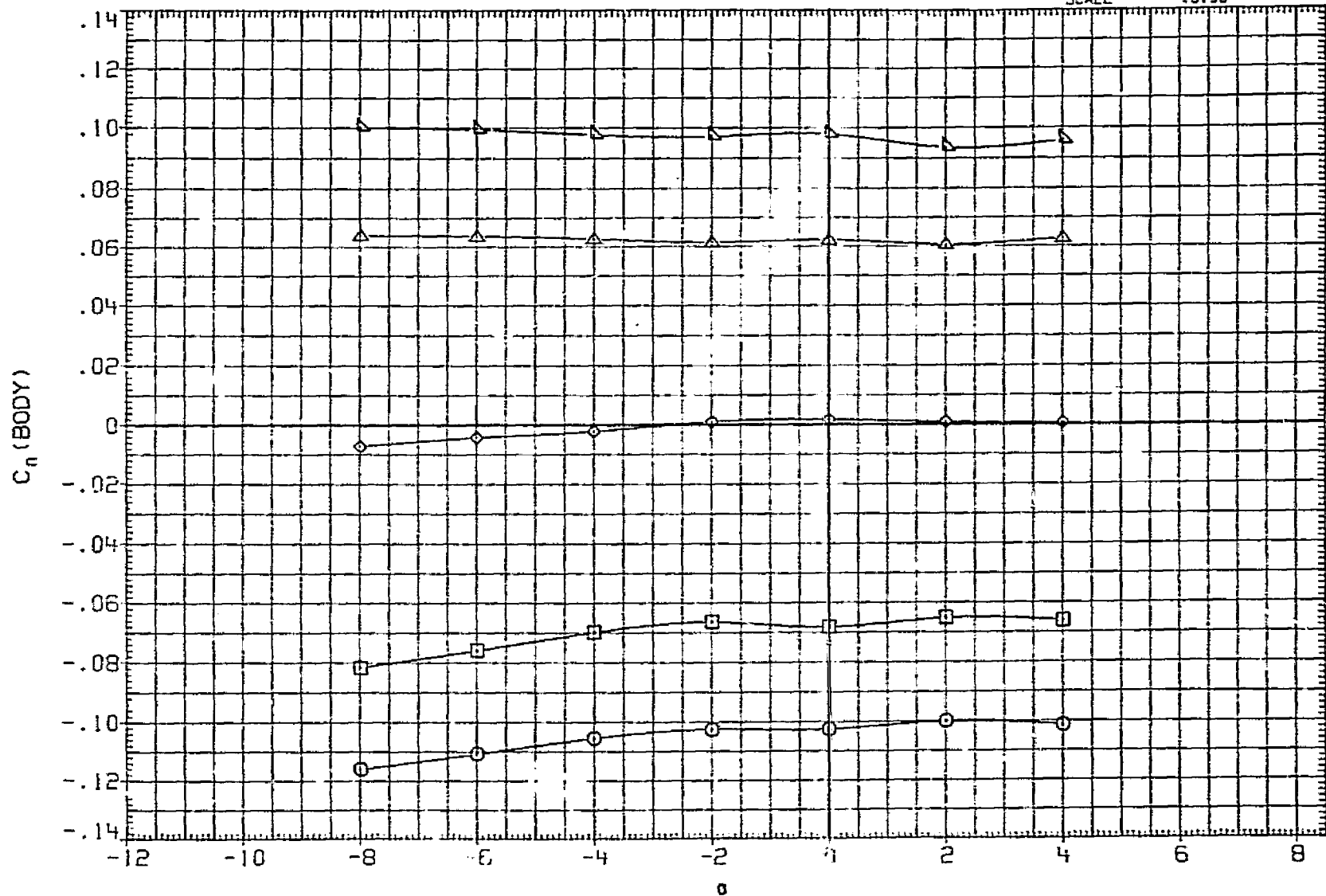


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

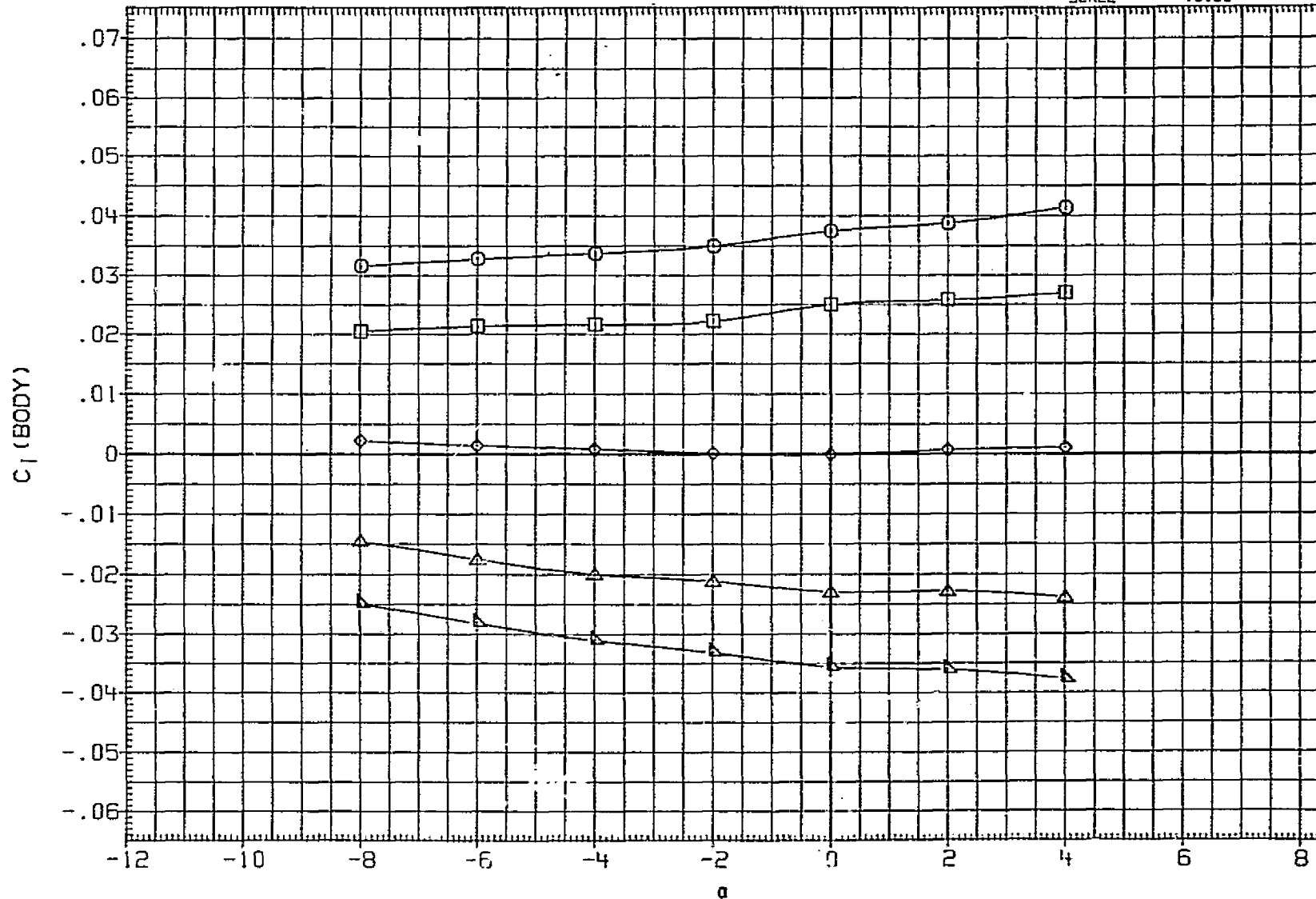


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

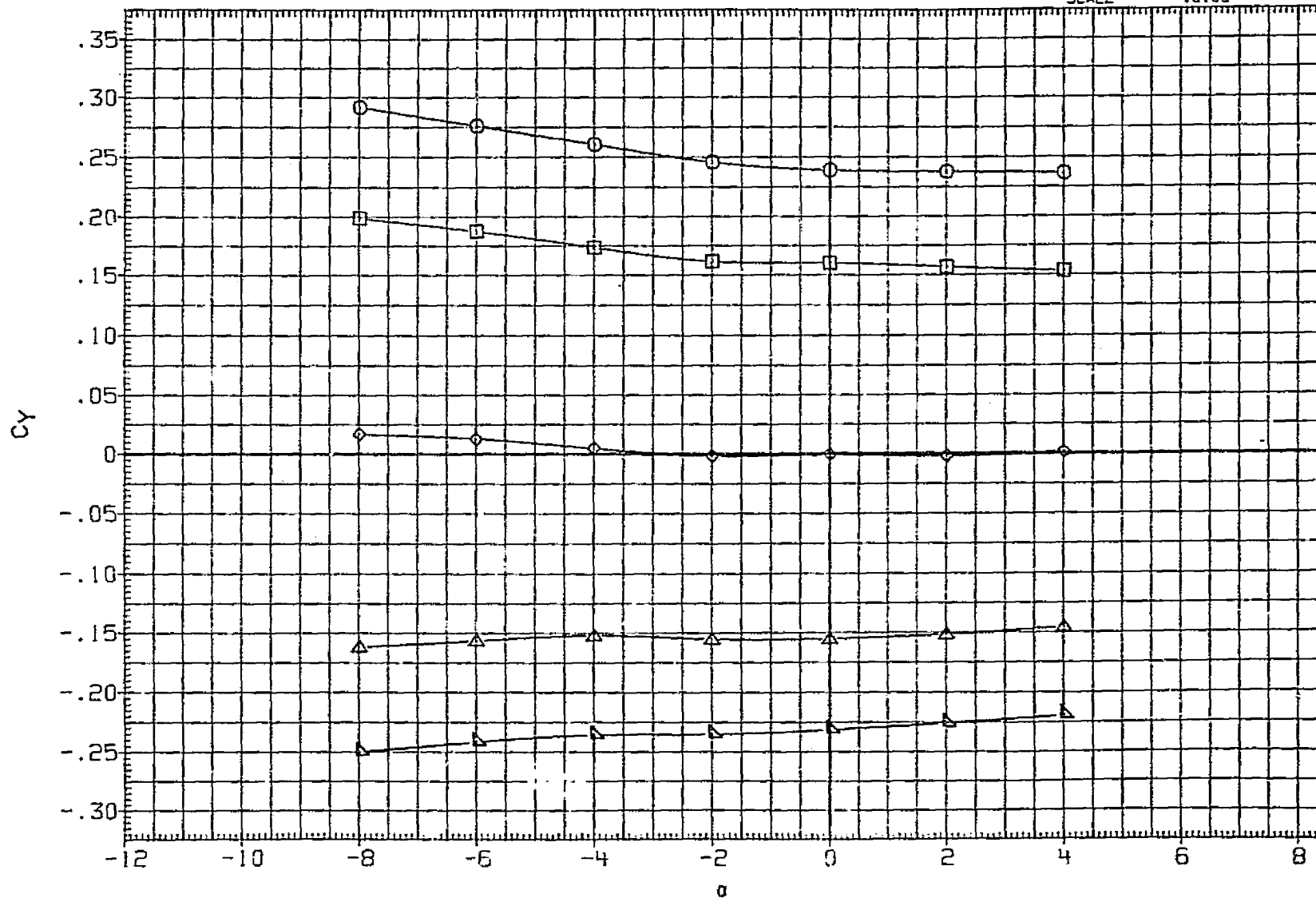


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

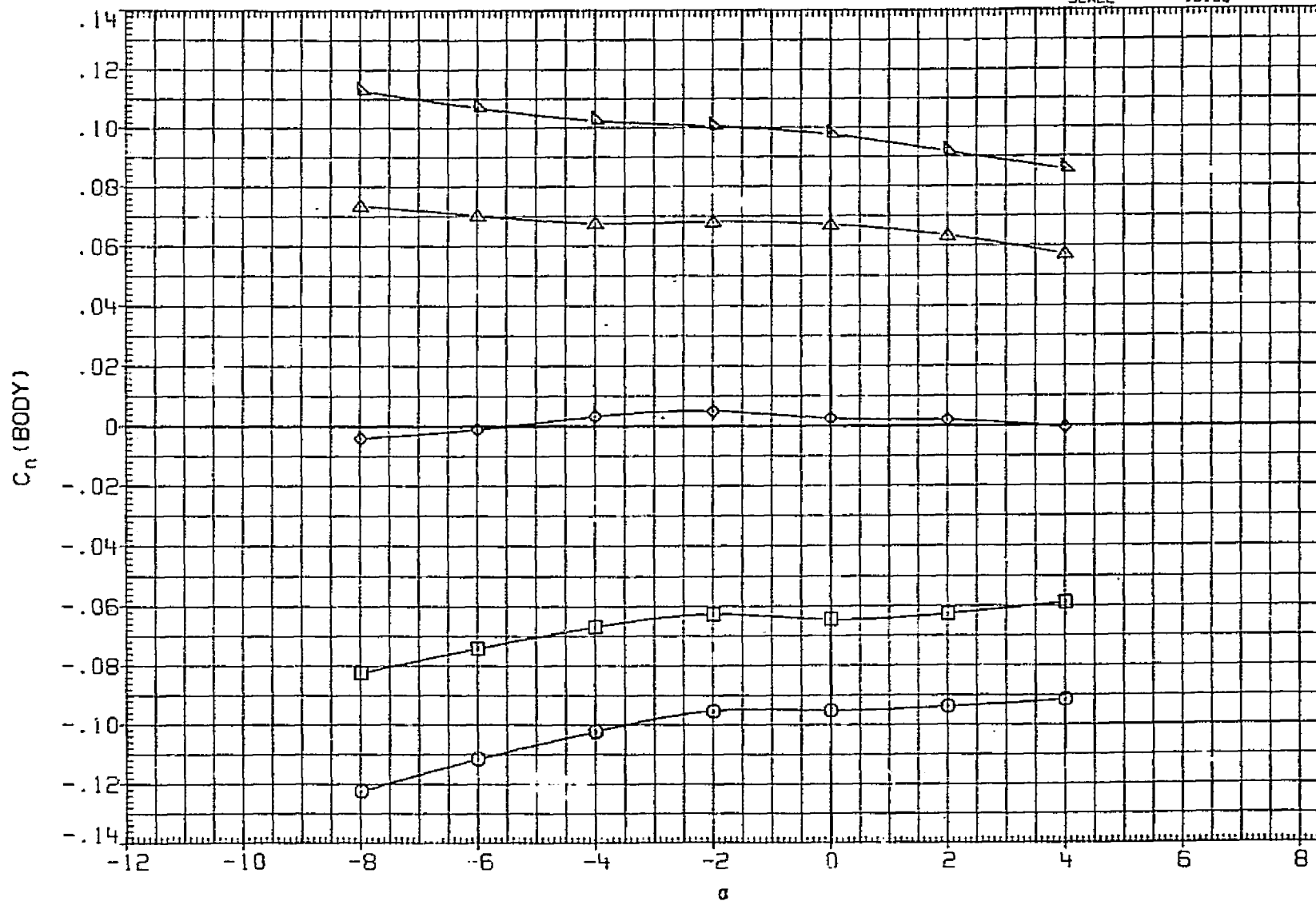


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA27	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2699.0000	50.FT.
MJJA28	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

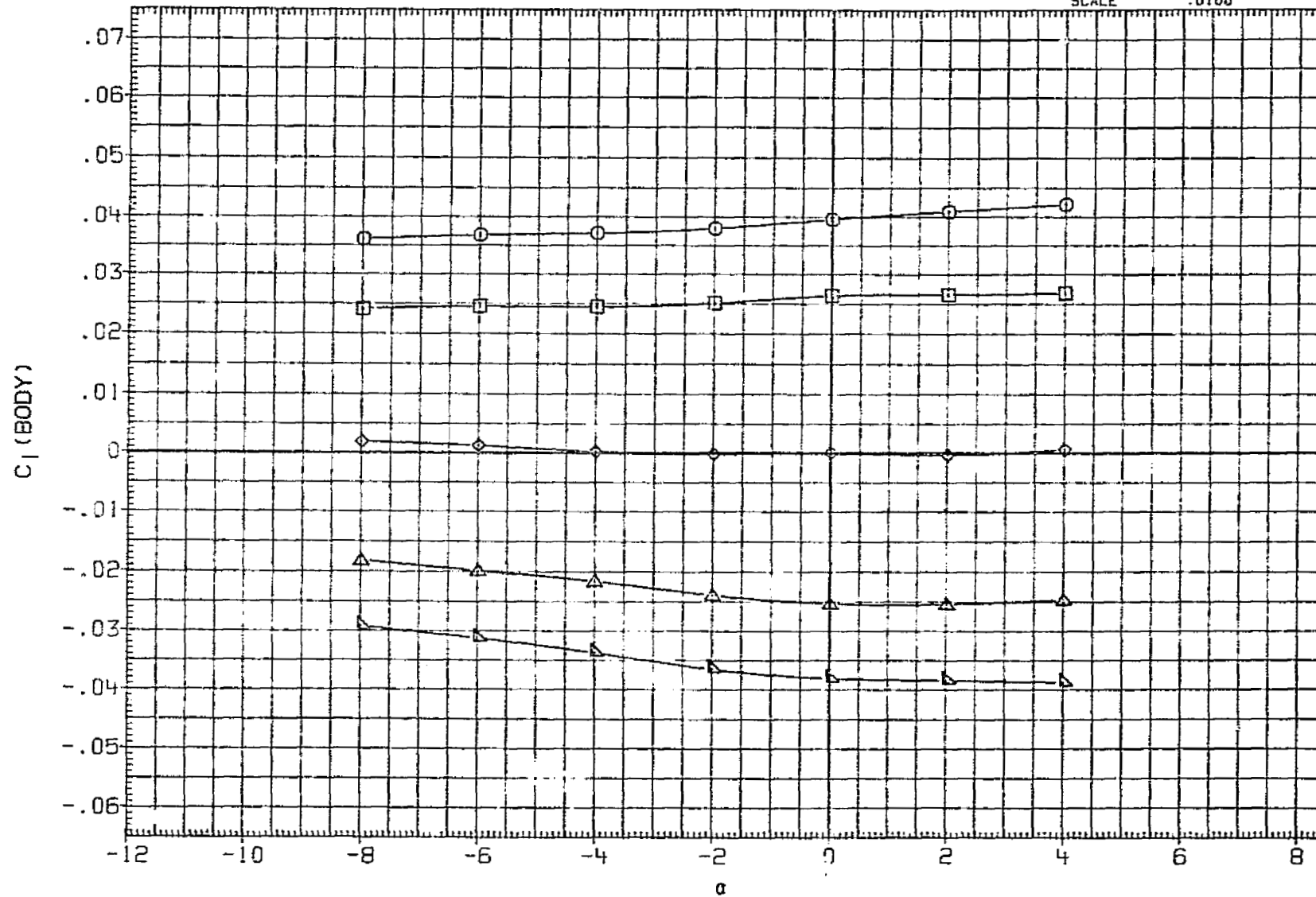


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA27	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000 SQ.FT.
MJJA28	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000 INCHES
MJJA29	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000 INCHES
MJJA30	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XHRP	976.0000 IN. XT
MJJA31	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

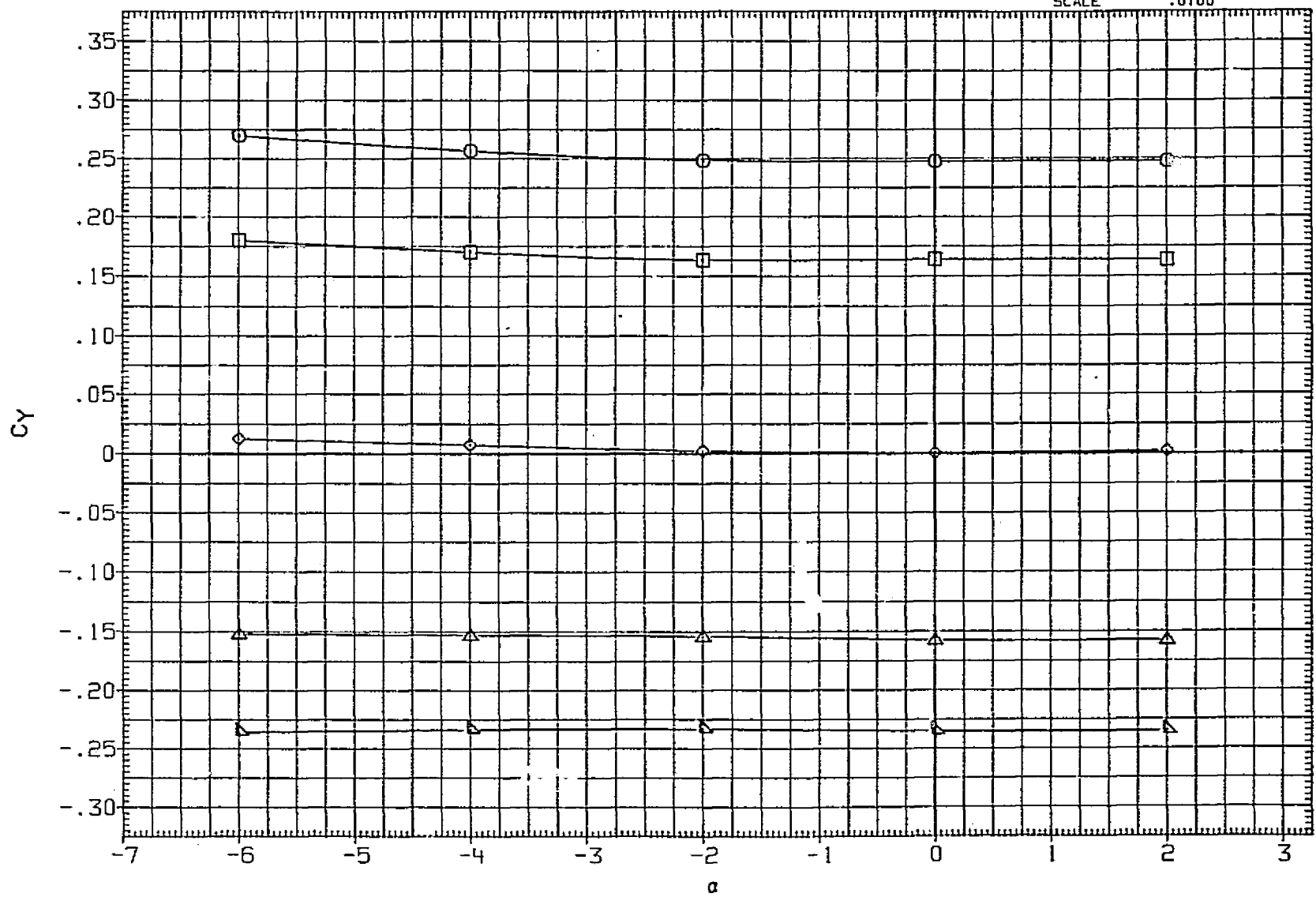


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	1 INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	1 INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	1 IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMPP	.0000	1 IN. YT
								ZMPP	400.0000	1 IN. ZT
								SCALE	.0100	

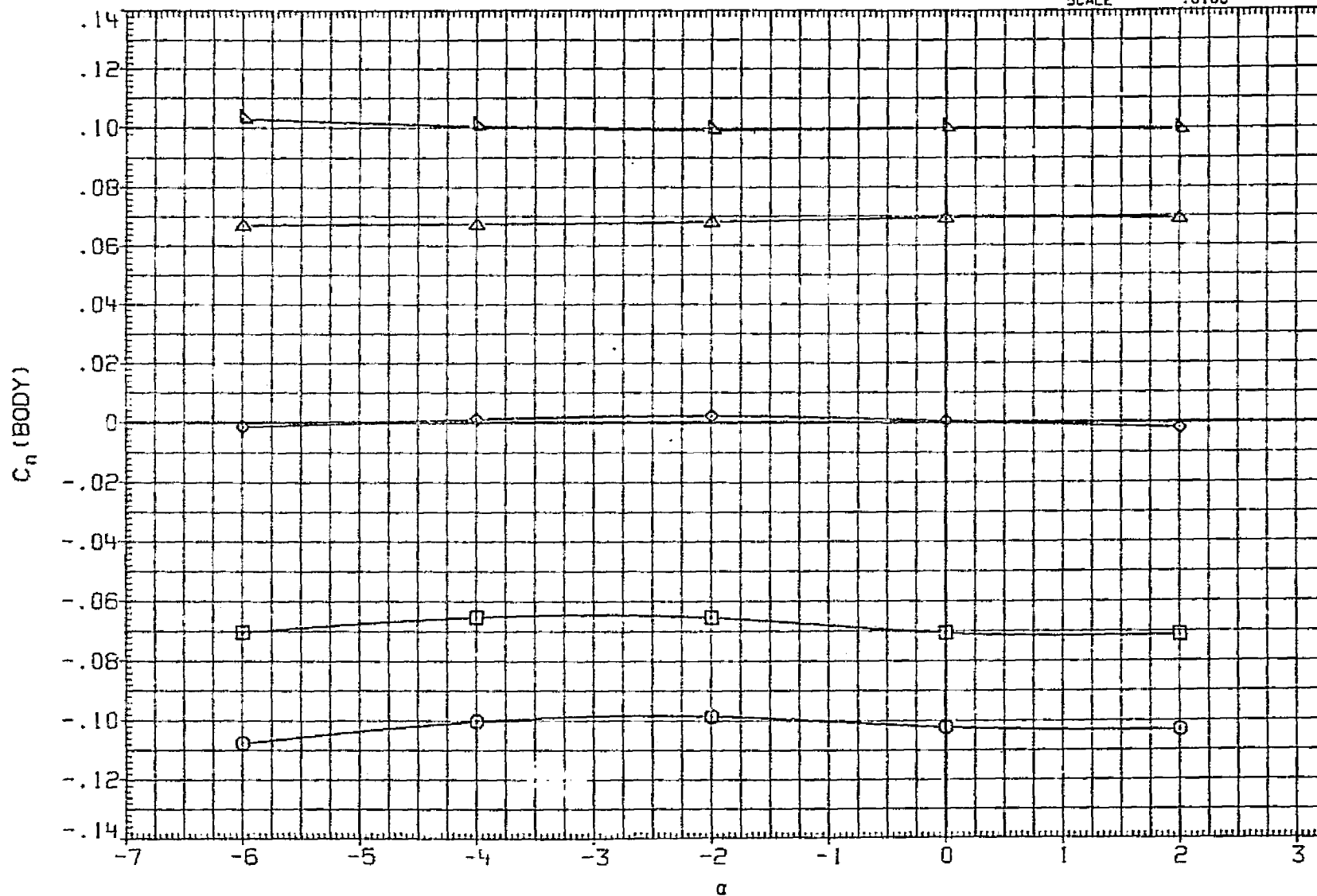


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000 50.FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000 INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000 INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	971.0000 IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

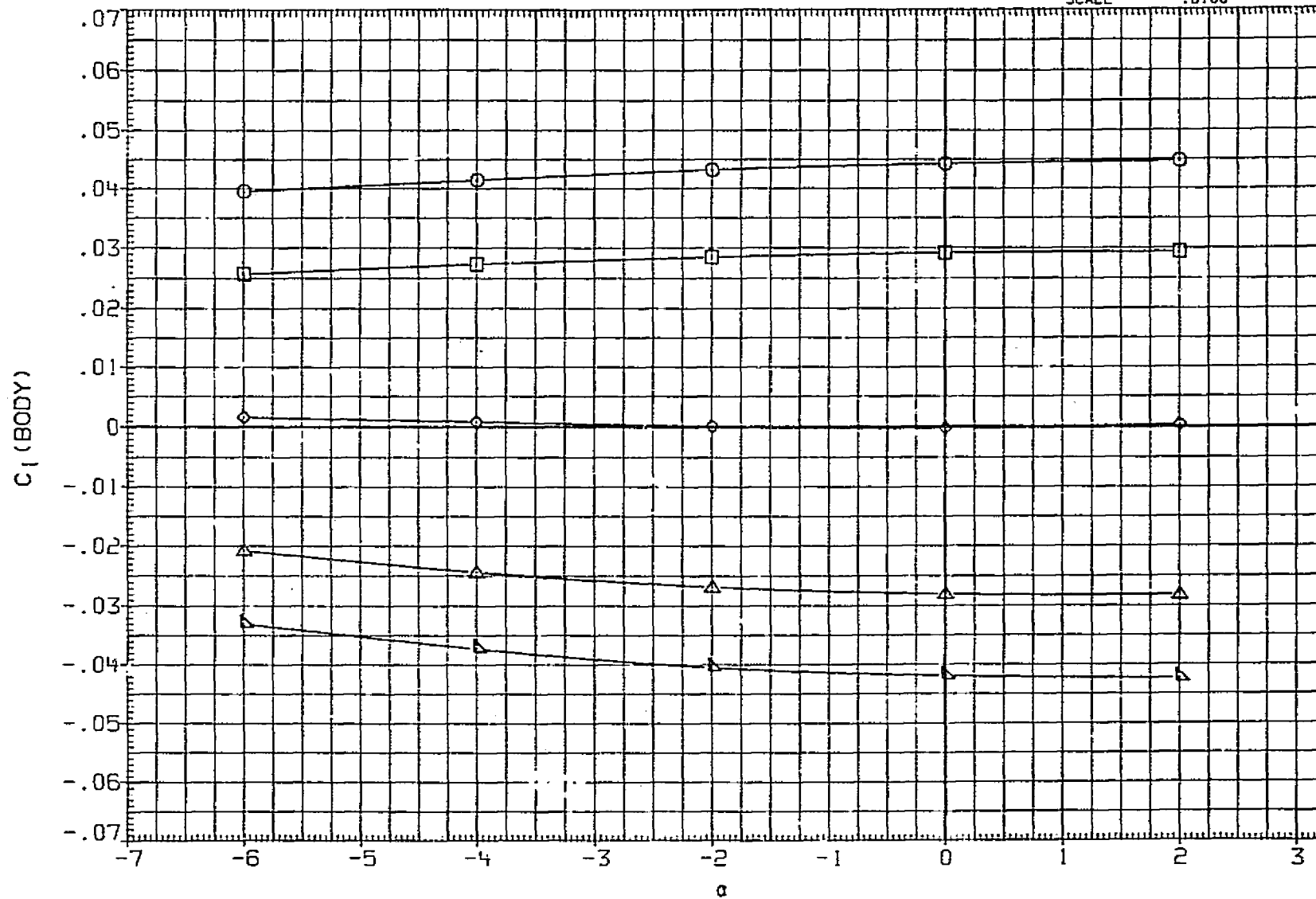


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

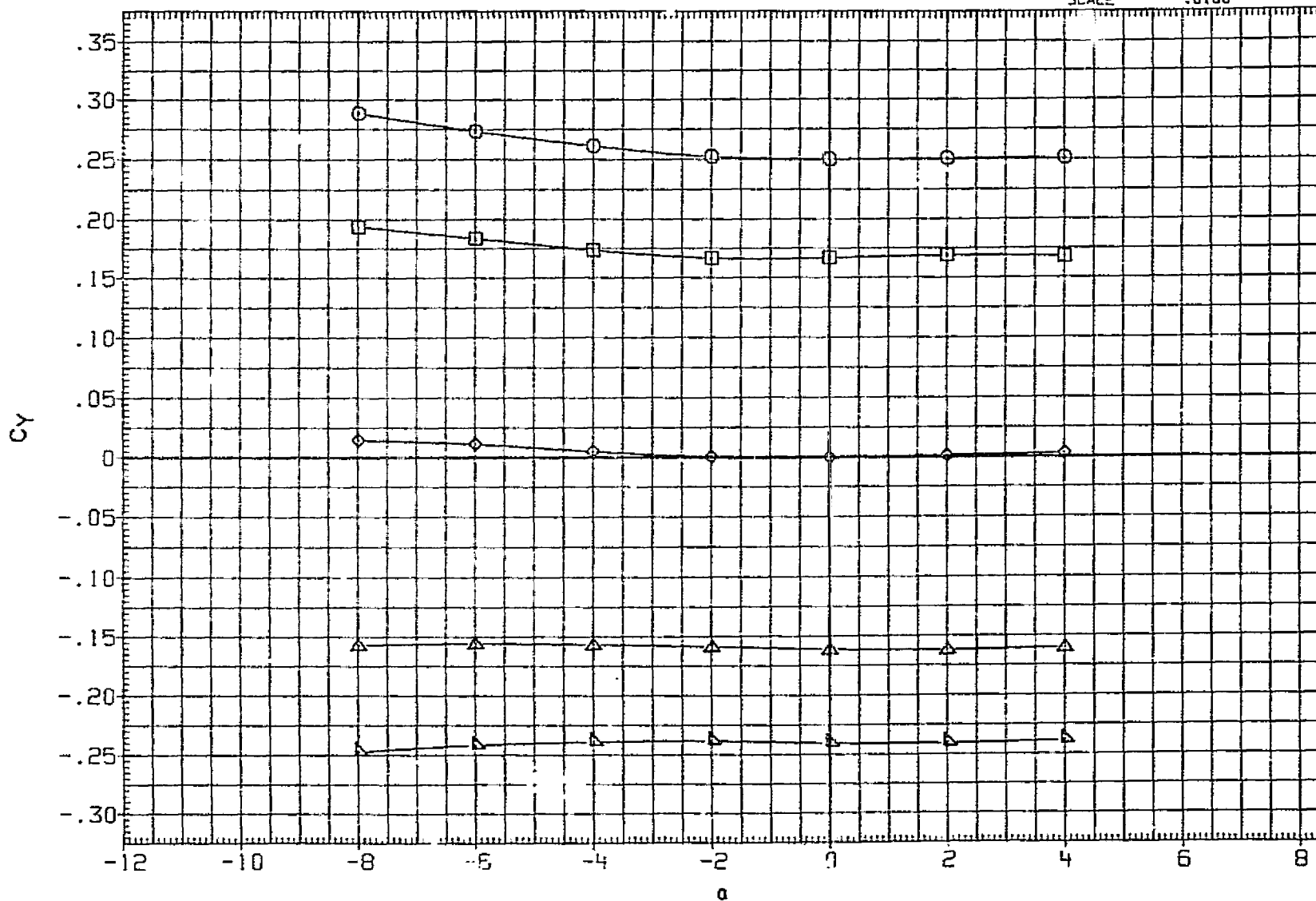


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

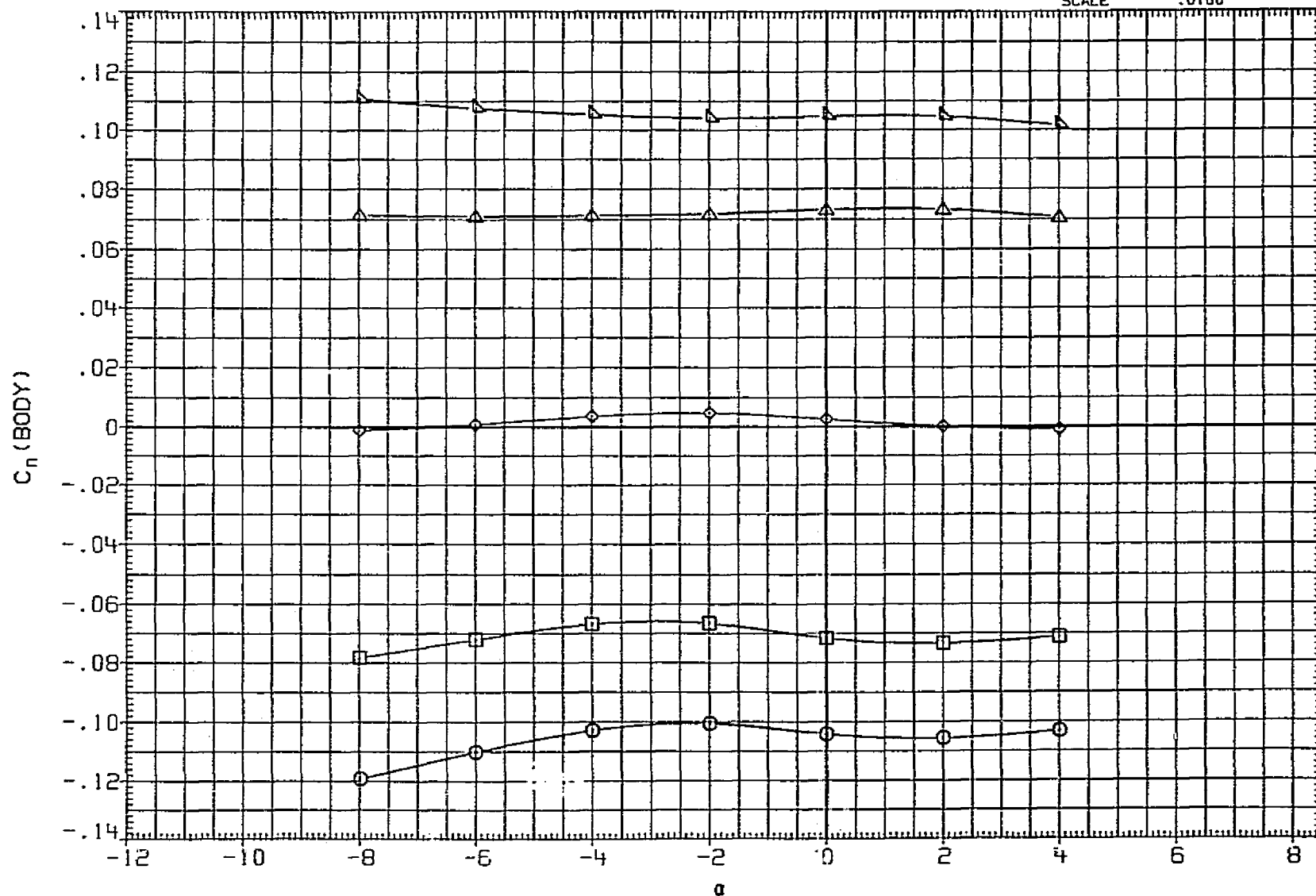


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ. FT.
MJJA28	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

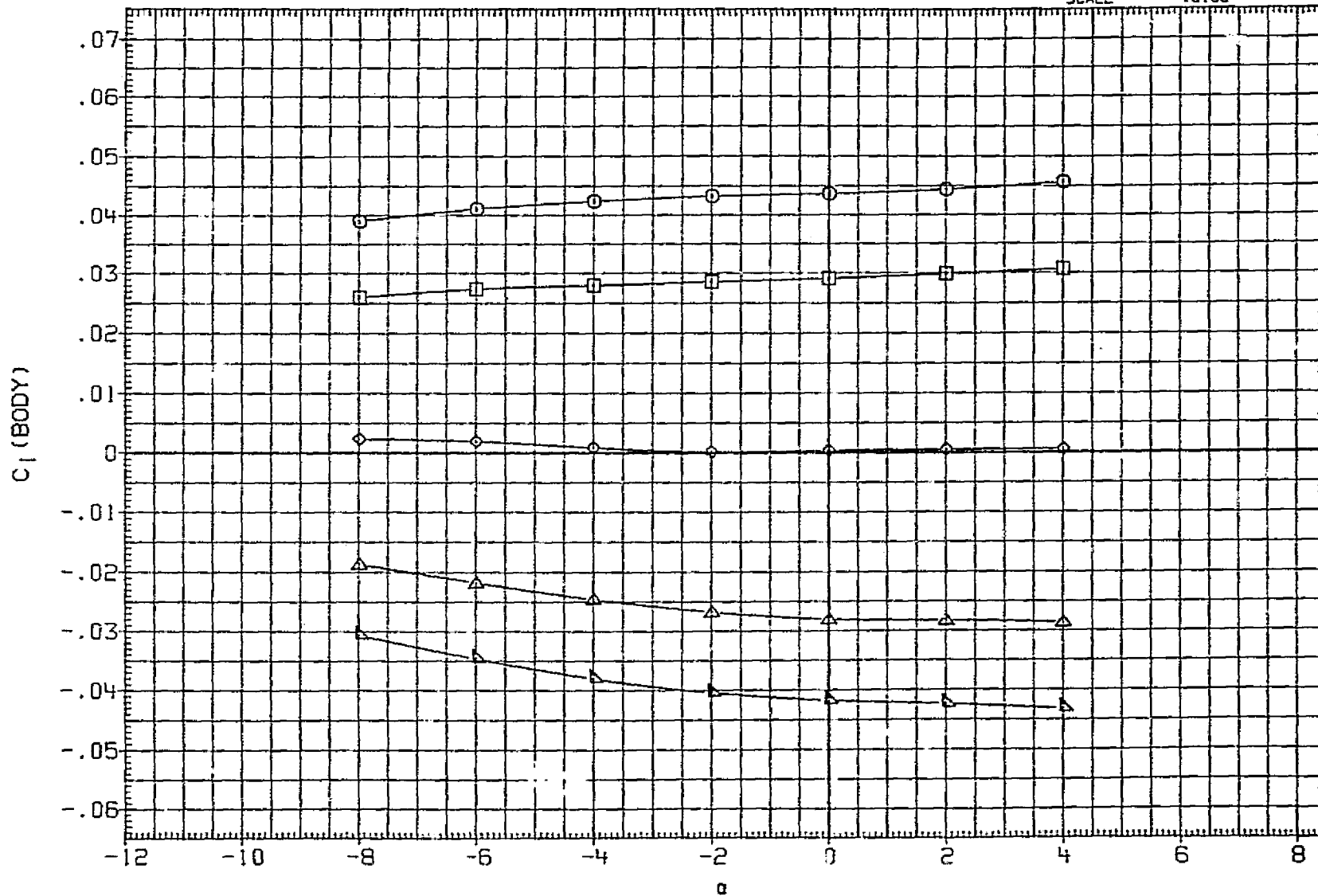


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ. FT.
MJJA33	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT	
MJJA36	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

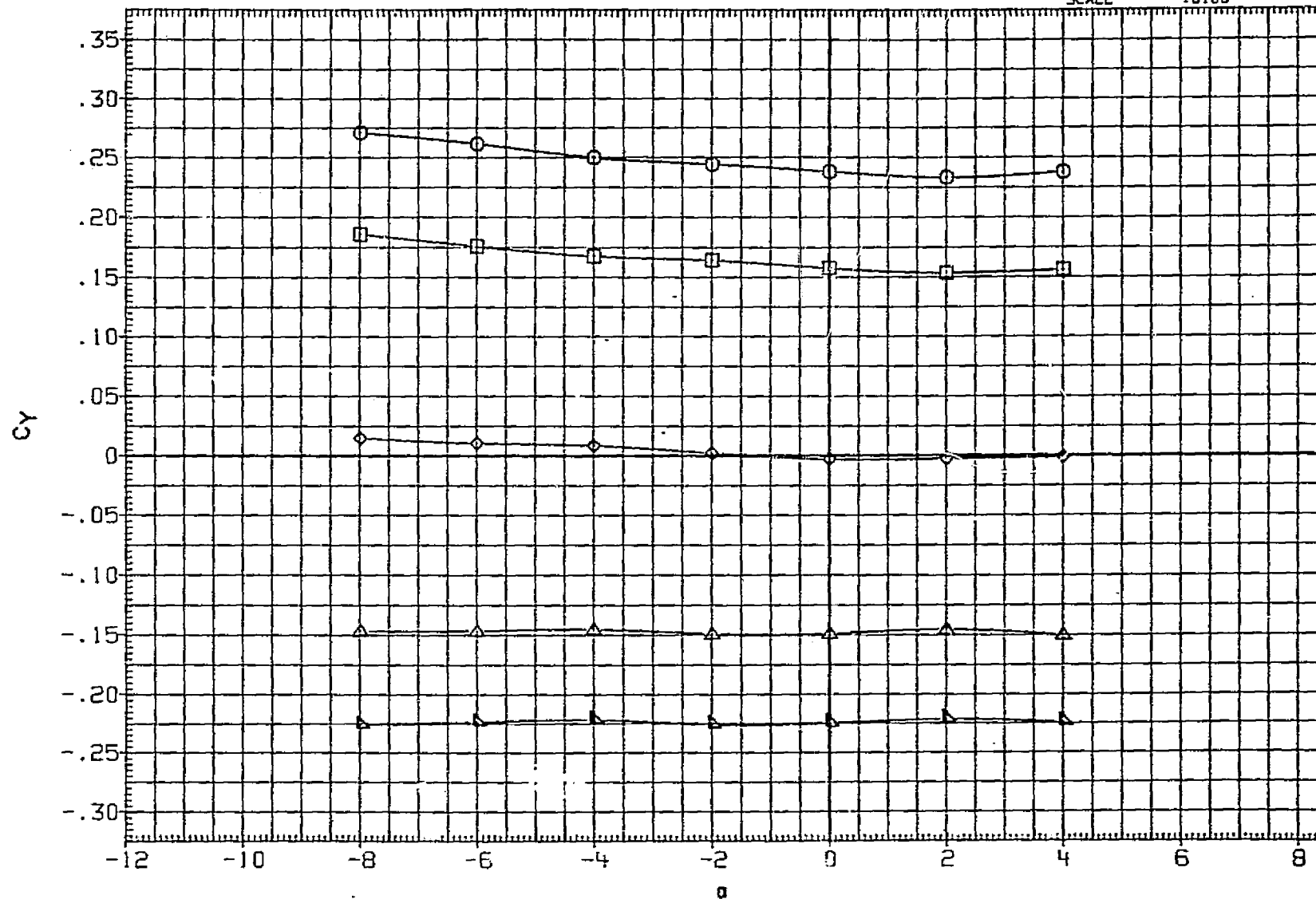


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130

BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
					ZMRP	400.0000	IN. ZT
					SCALE	.0100	

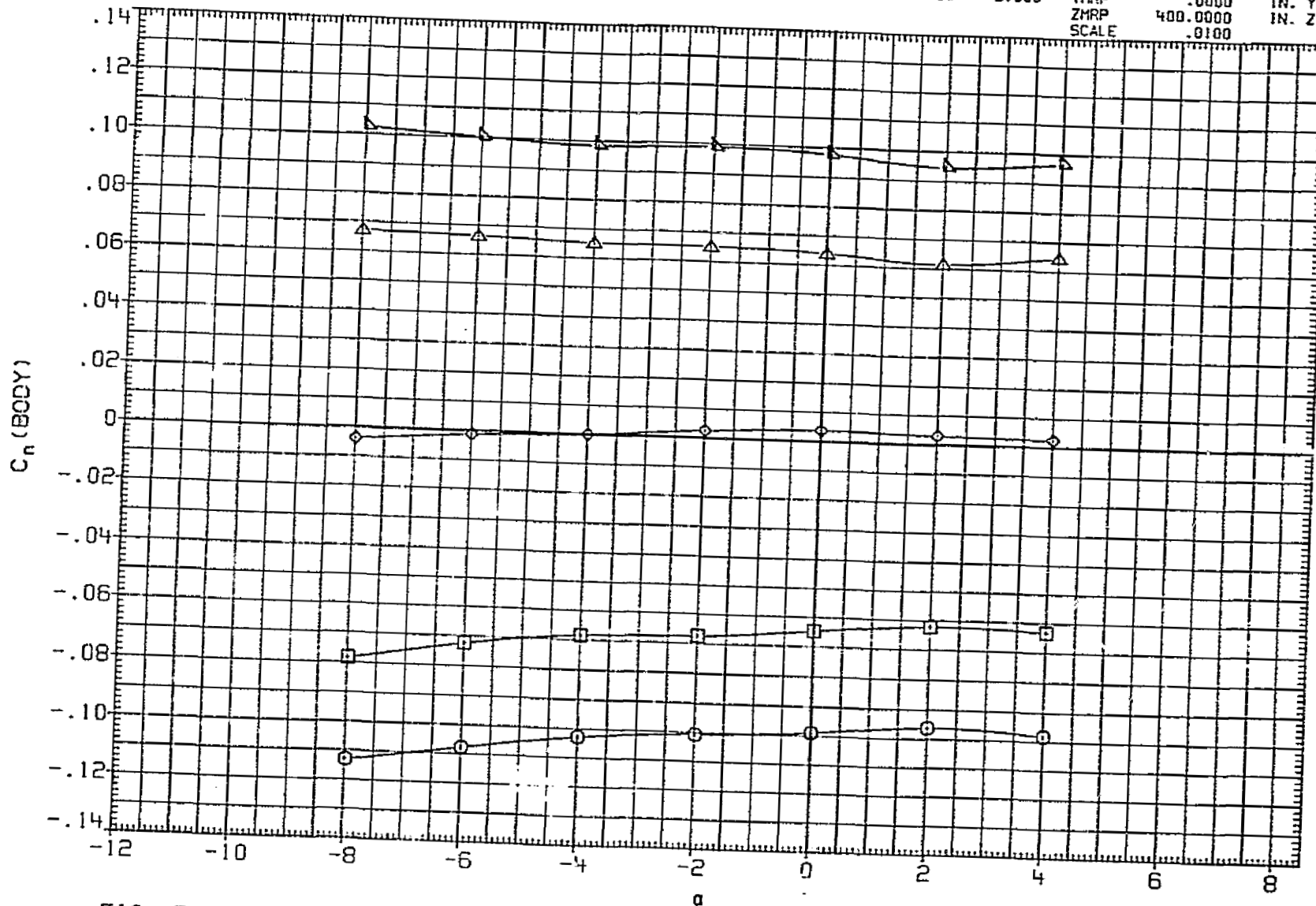


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SO.FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

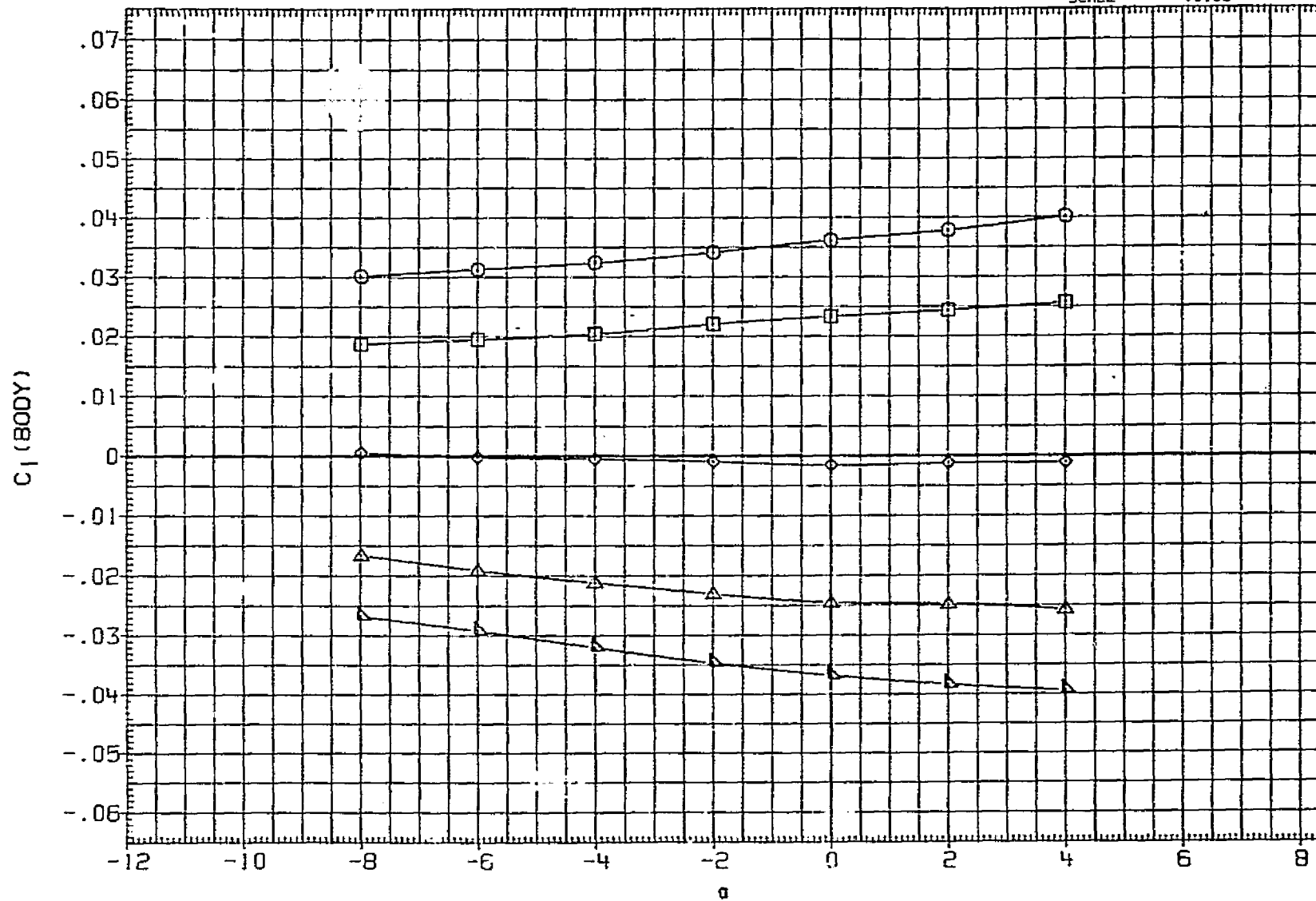


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2699.0000	50. FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	100. INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	100. INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	12.000	9.000	XMRP	975.0000	IN. XT	
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	490.0000	IN. ZT
								SCALE	.0100	

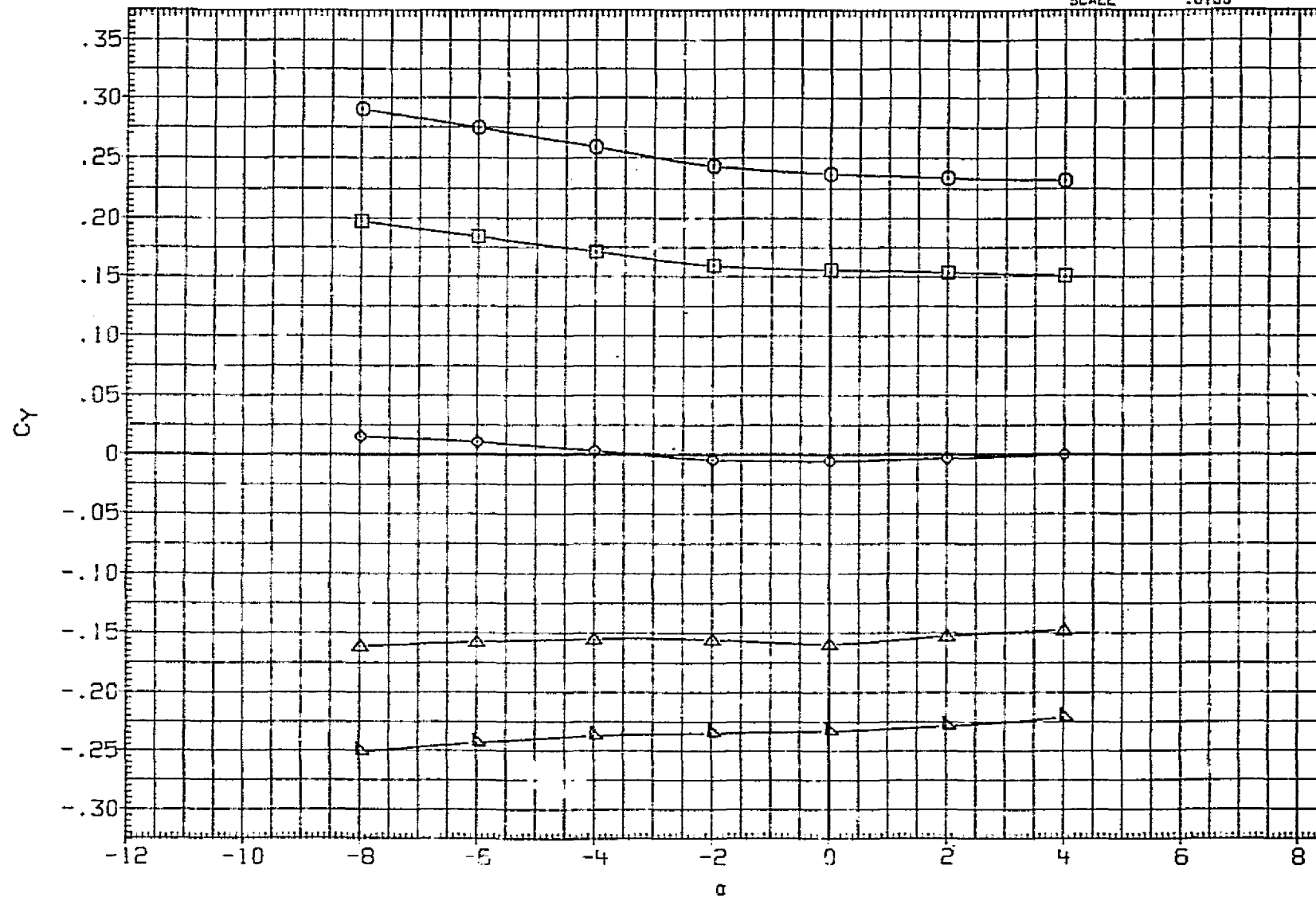


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50.FT.
MJJA33	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	□	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

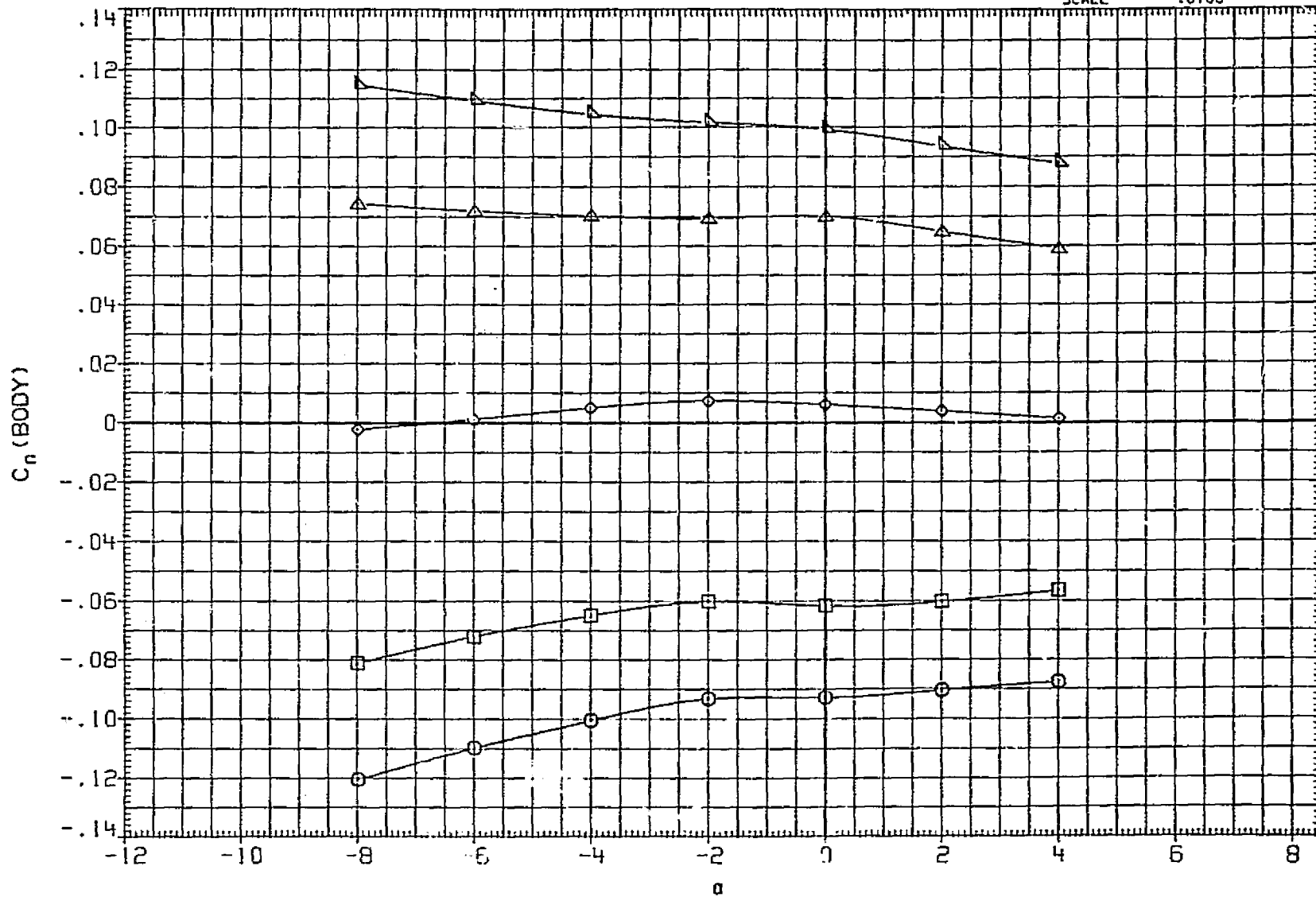


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50.FT.
MJJA33	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

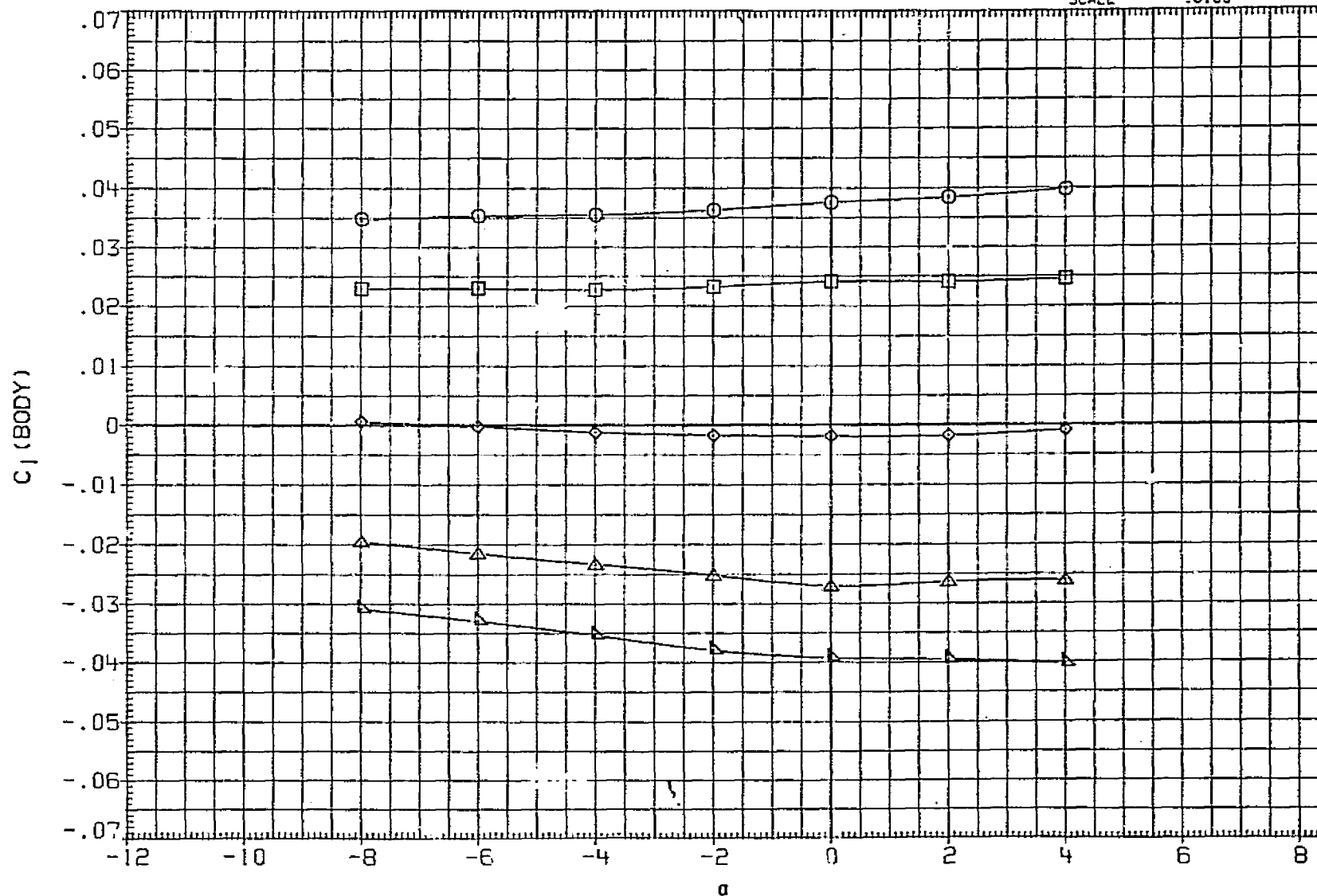


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50.FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

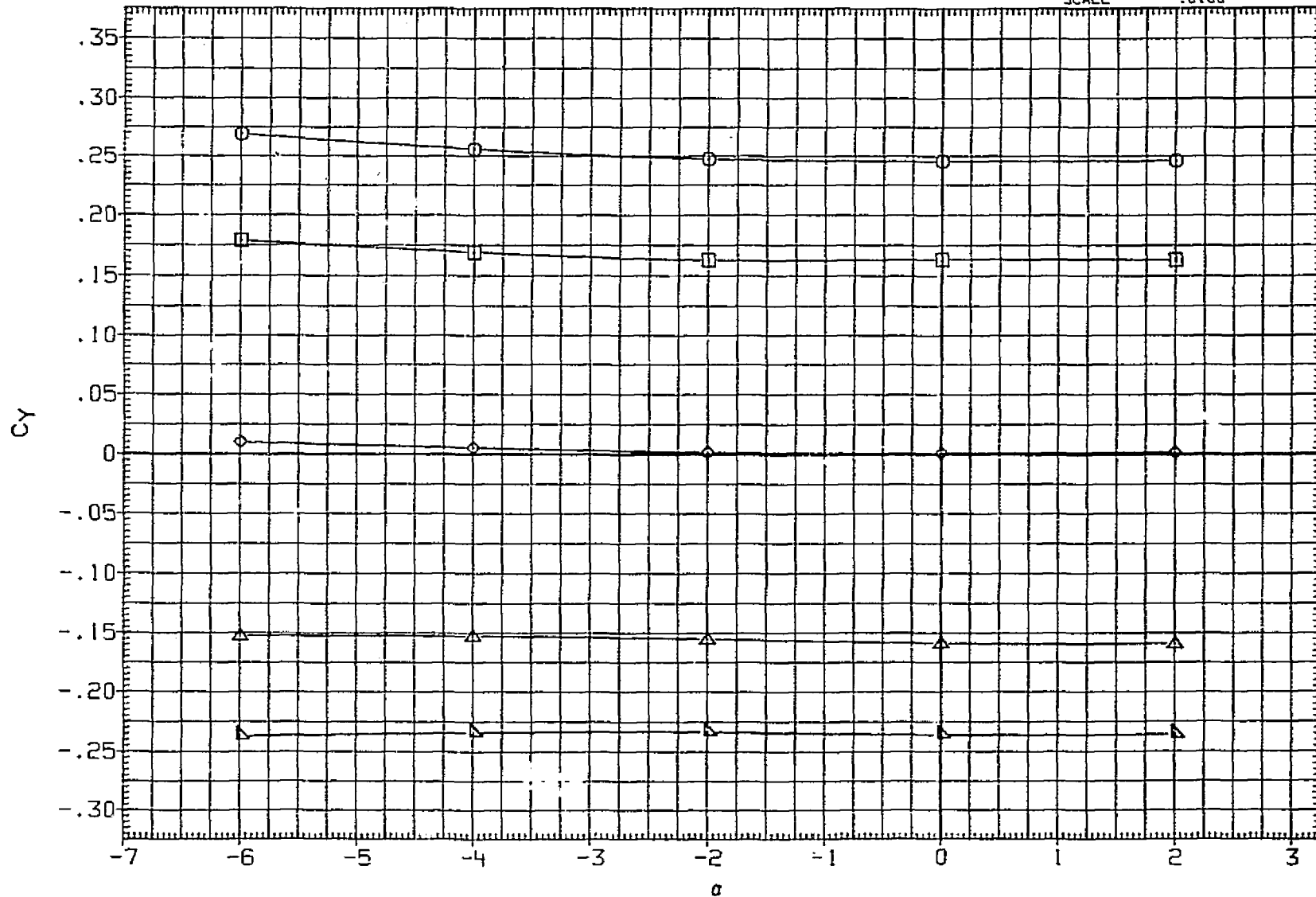


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ. FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

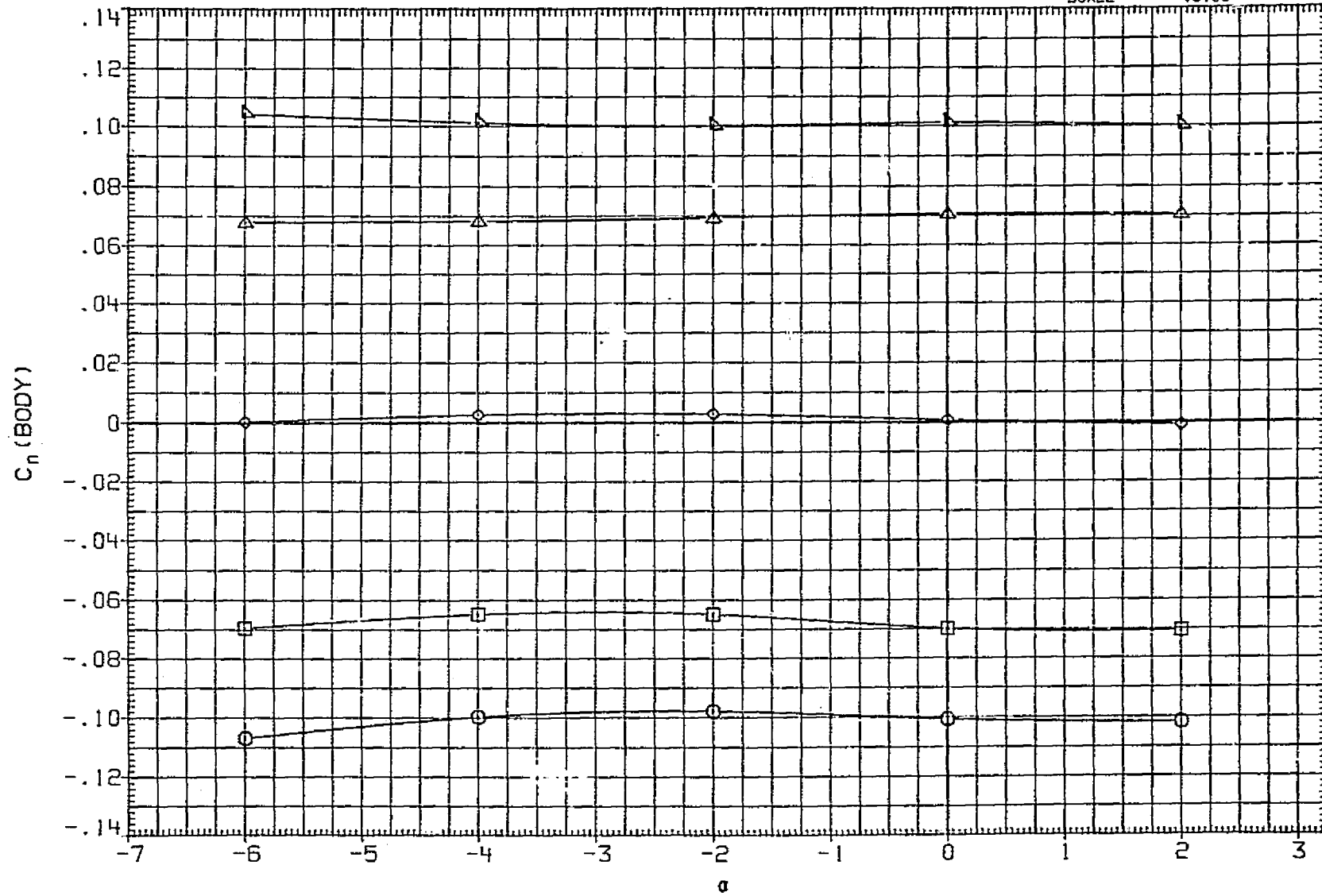


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LD	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50.FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	5.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

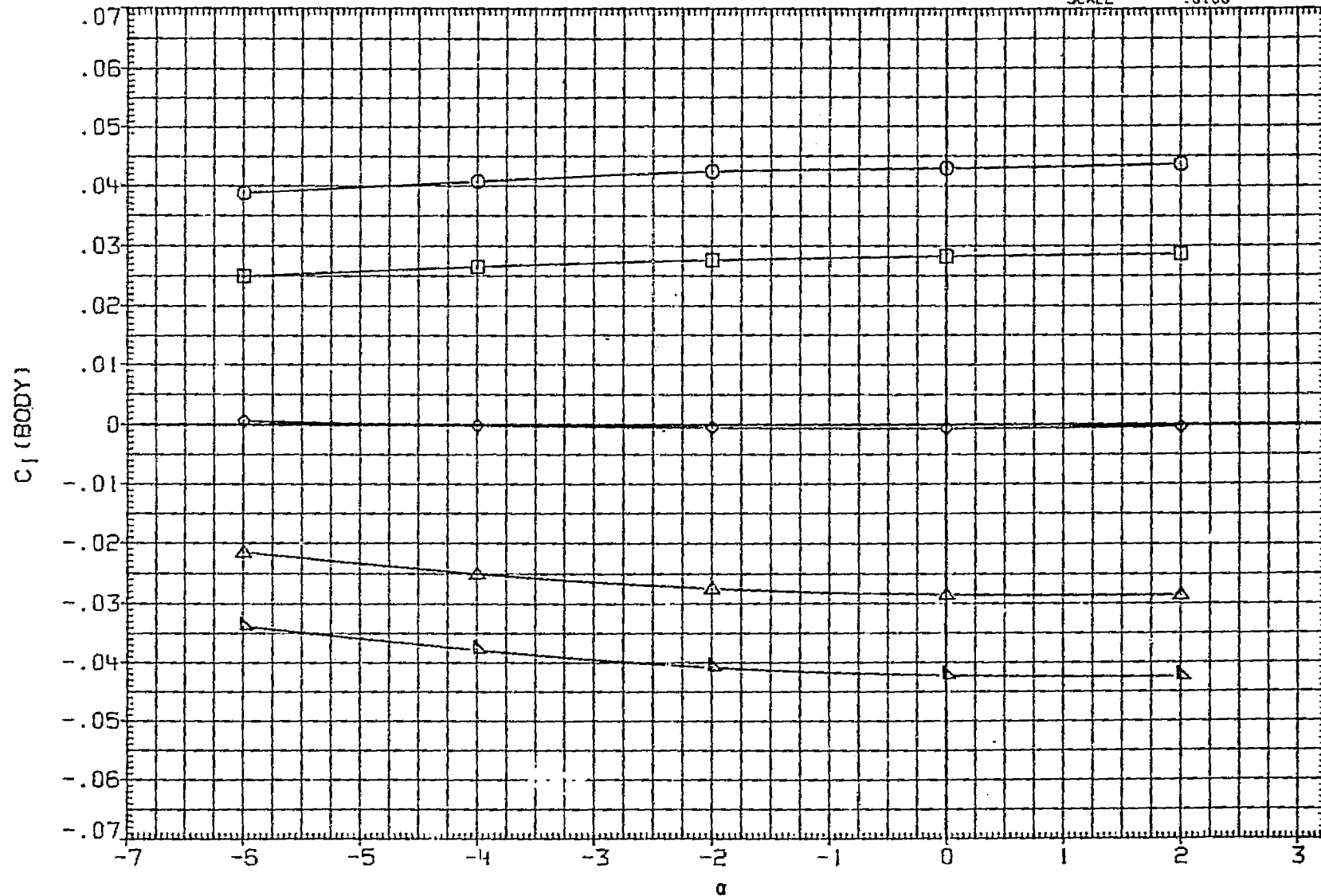


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.600	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMPP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

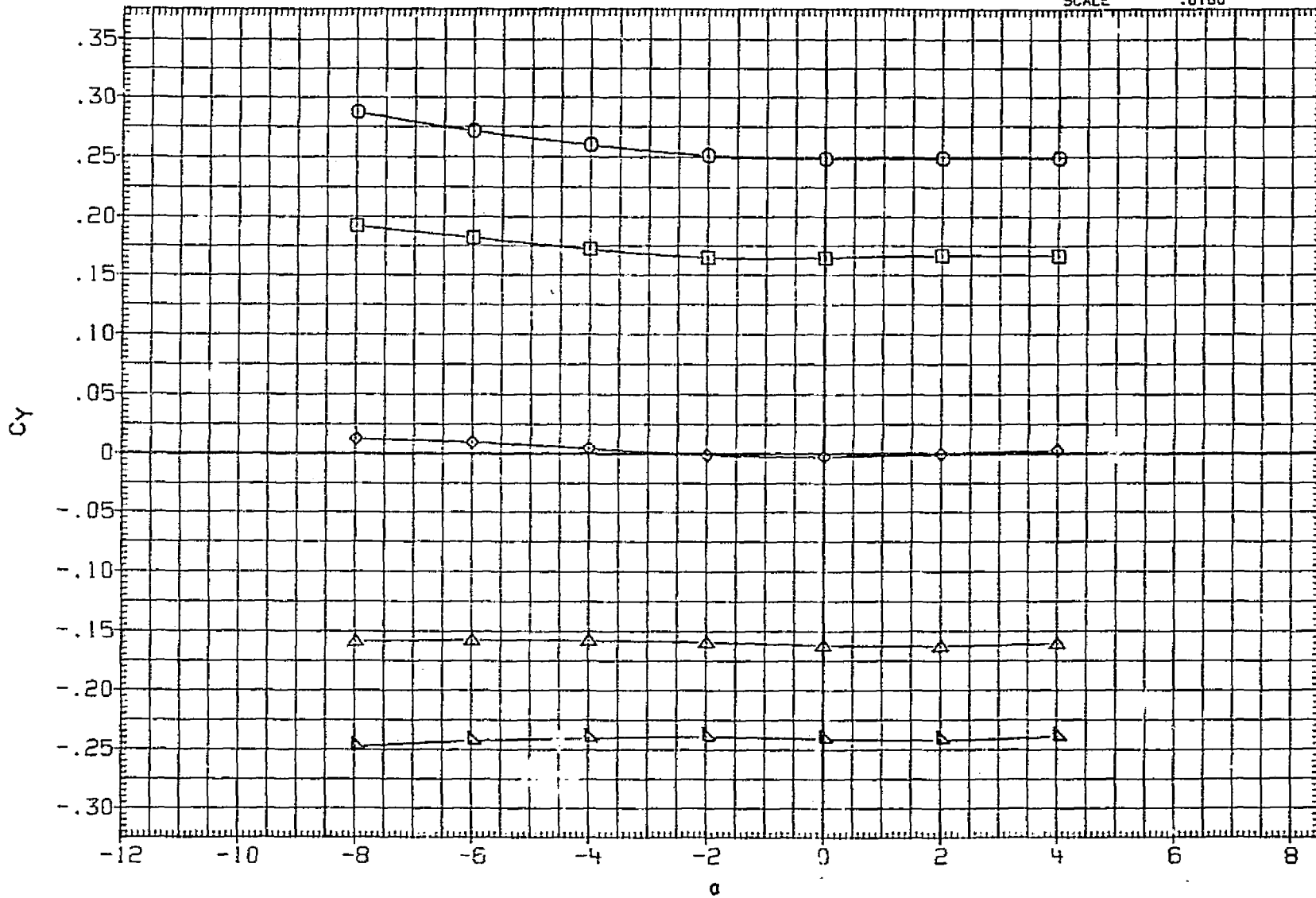


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-RI	ELV-RO	* REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJA33	□	LARC 8FT TPT 749 (A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0050	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

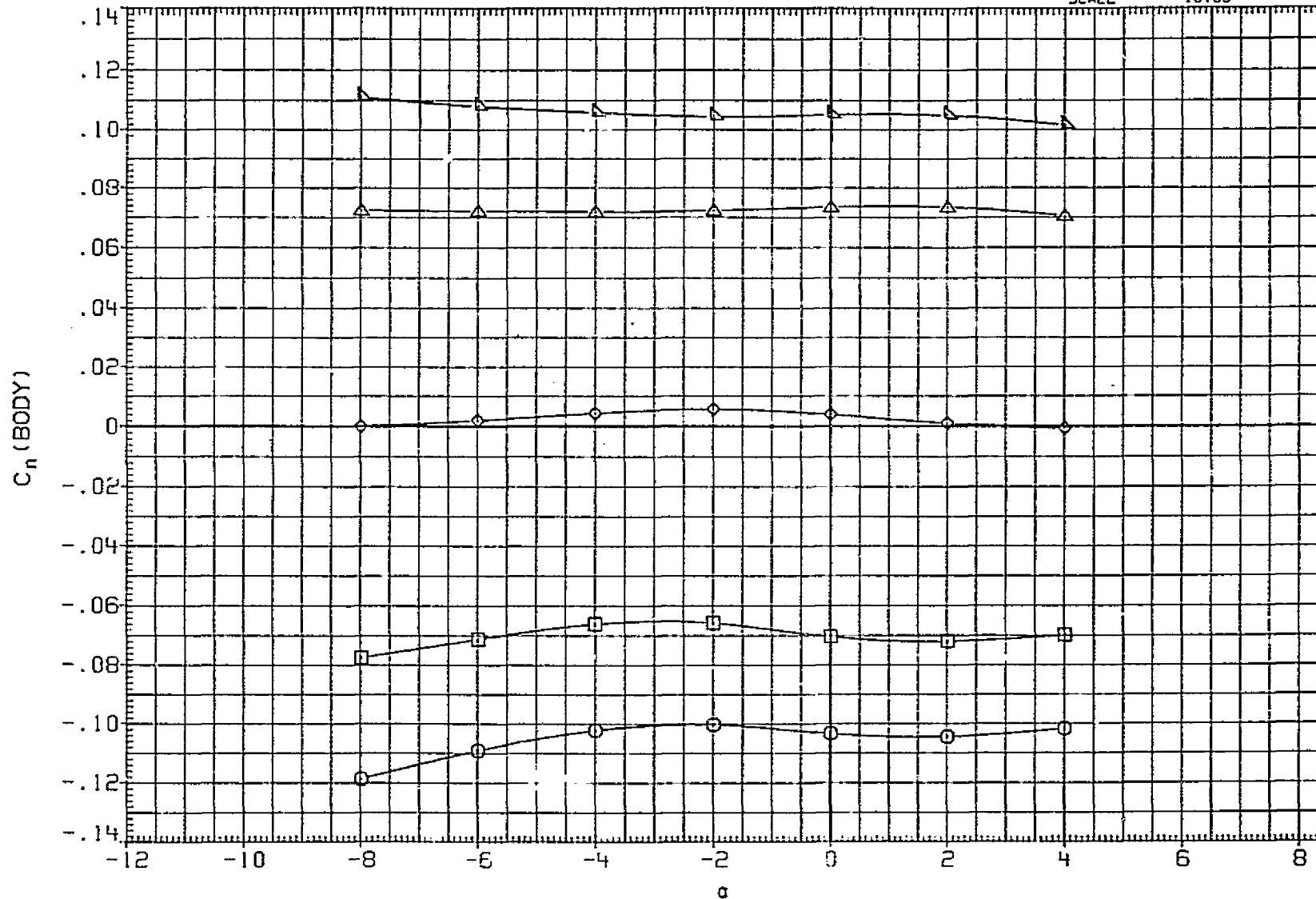


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJA33	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

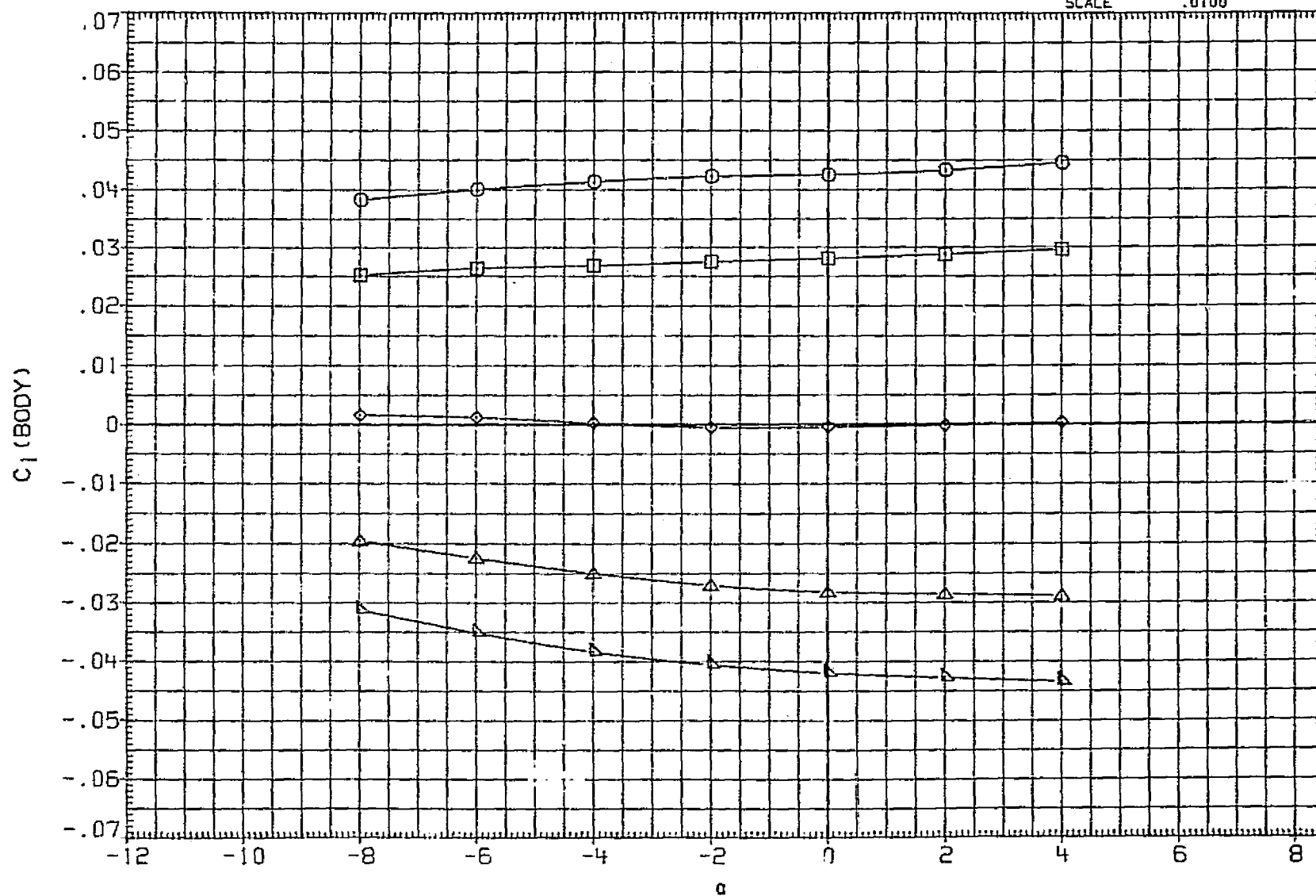


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	SQ.FT.
MJJA38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJA39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1298.3000	INCHES
MJJA40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJA41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

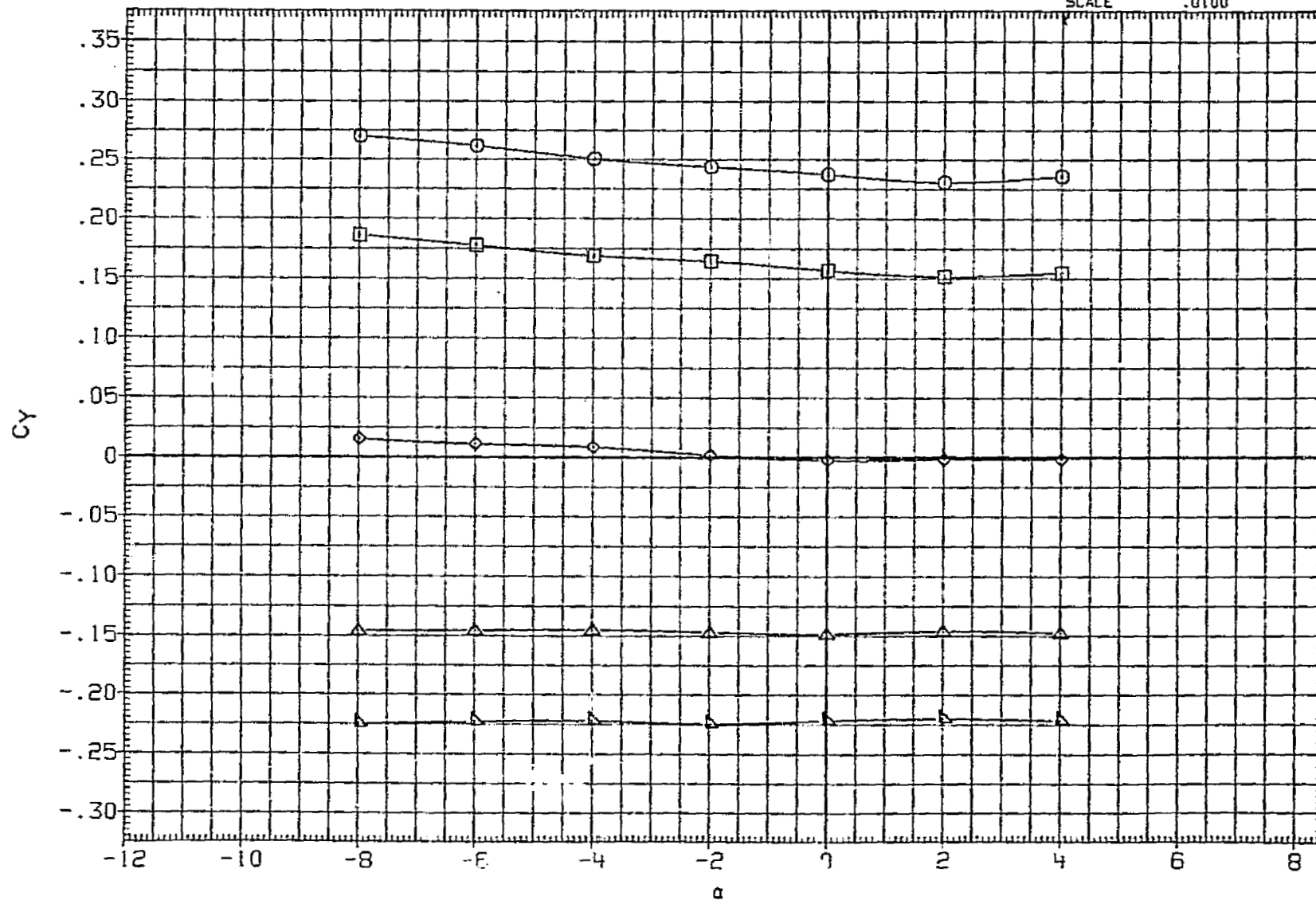


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA37	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	8560.0000	SQ.FT.
MJJA38	◇	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LRZF	1290.3000	INCHES
MJJA39	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BRZF	1290.3000	INCHES
MJJA40	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJA41	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

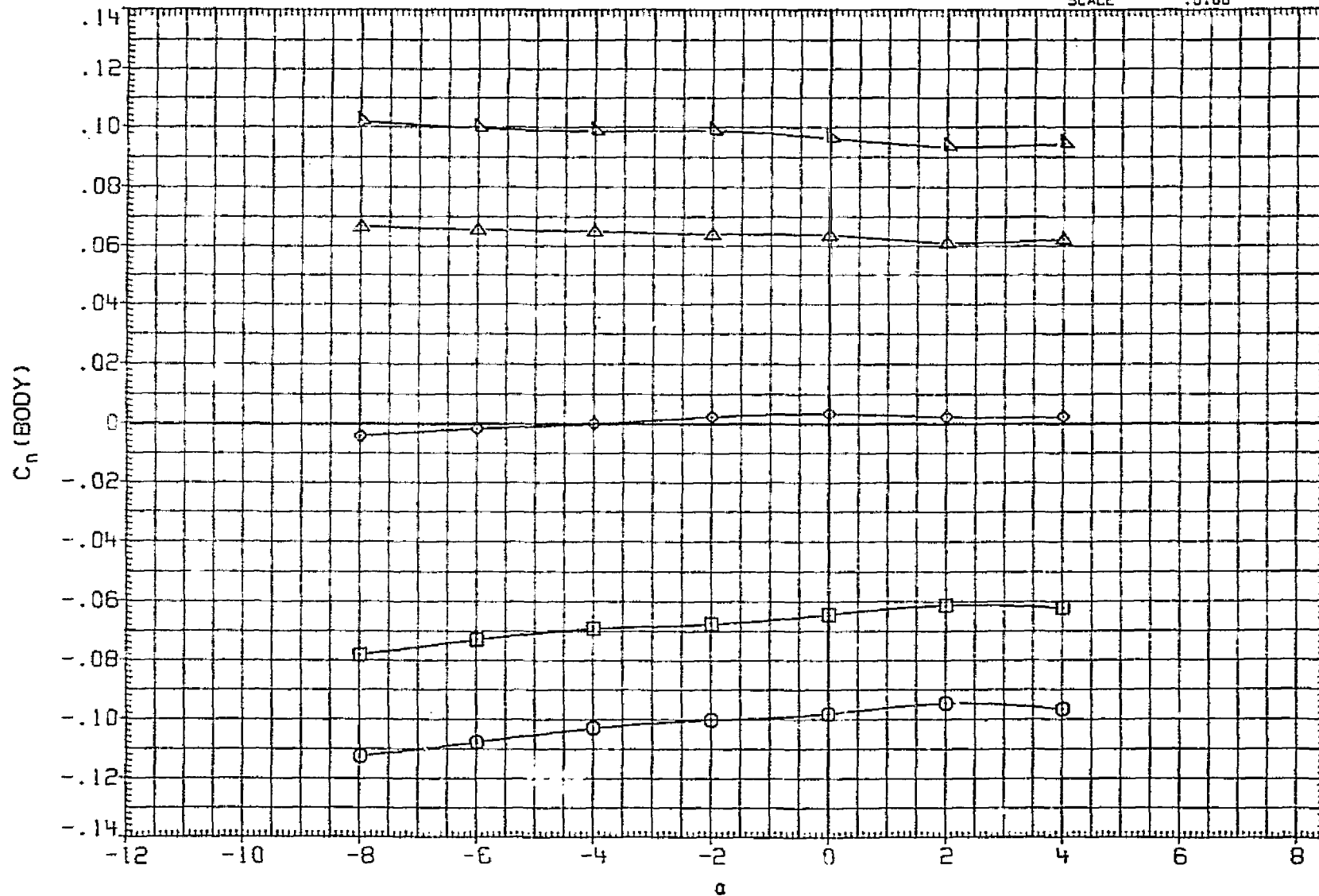


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJA37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	SQ.FT.
MJJA38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJA39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJA40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJA41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

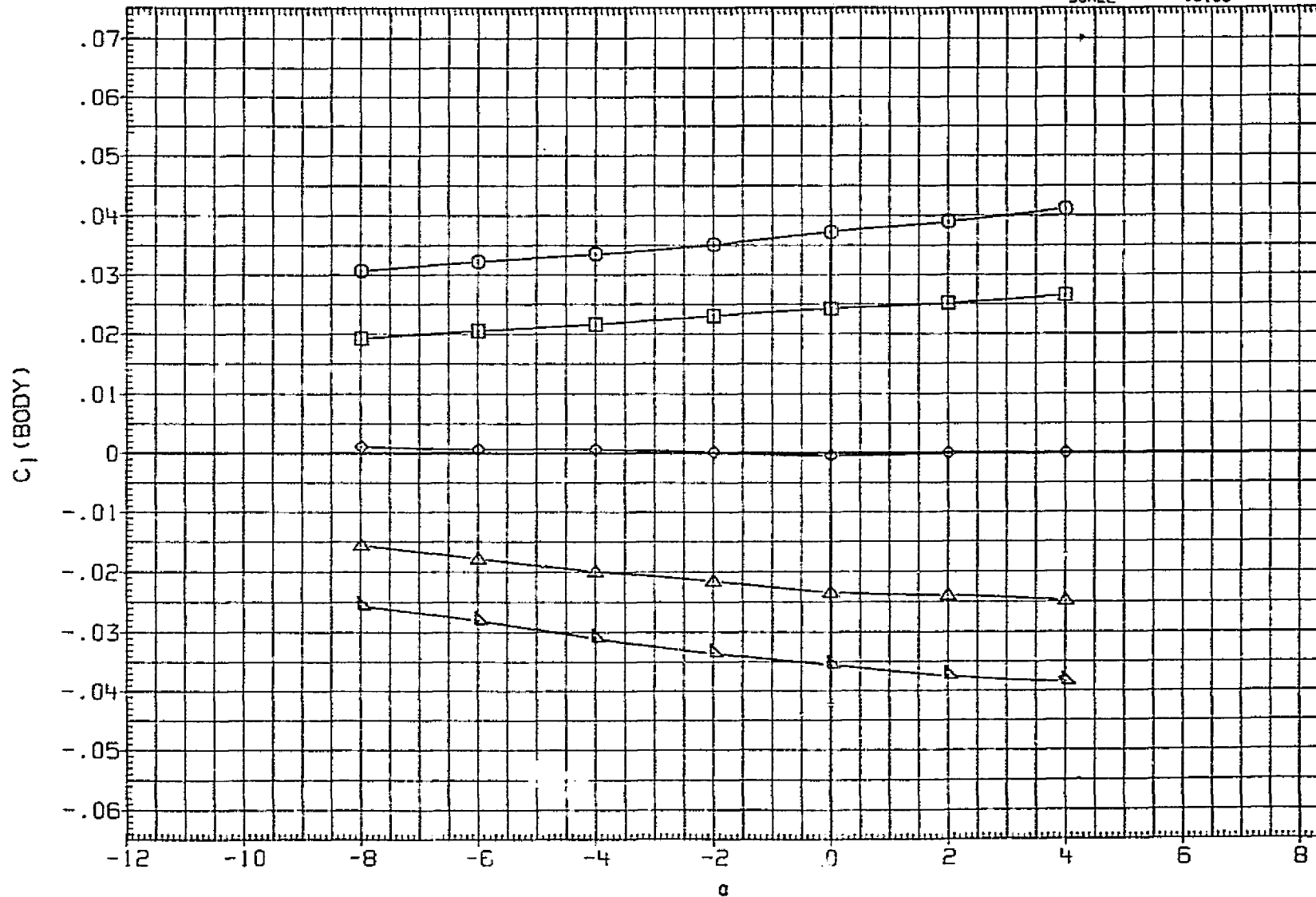


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	SQ. FT.
MJJA38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.2000	INCHES
MJJA39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	SREF	1290.3000	INCHES
MJJA40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	975.0000	IN. XT
MJJA41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

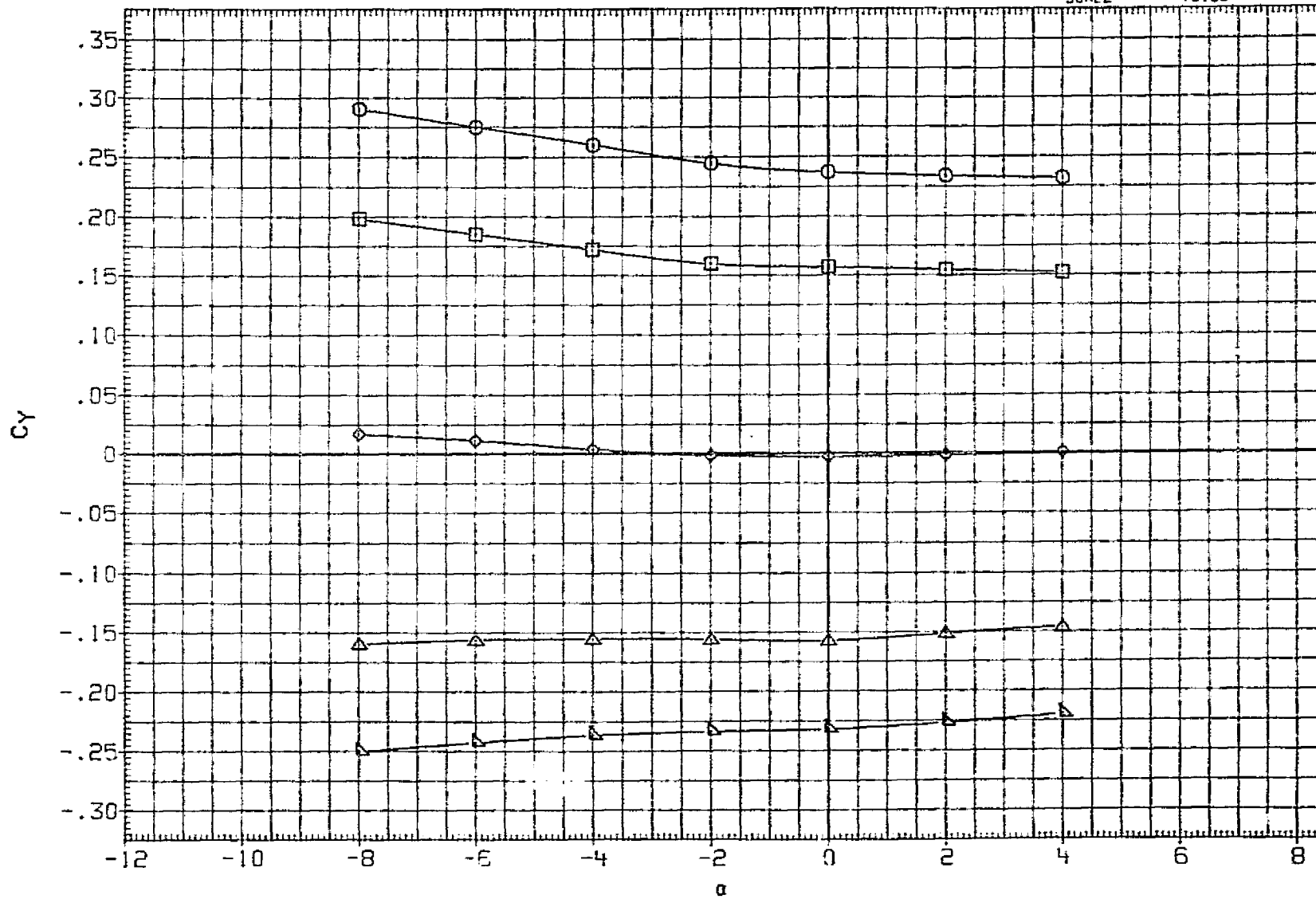


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	SQ.FT.
MJJA38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJA39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJA40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	975.0000	IN. XT
MJJA41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

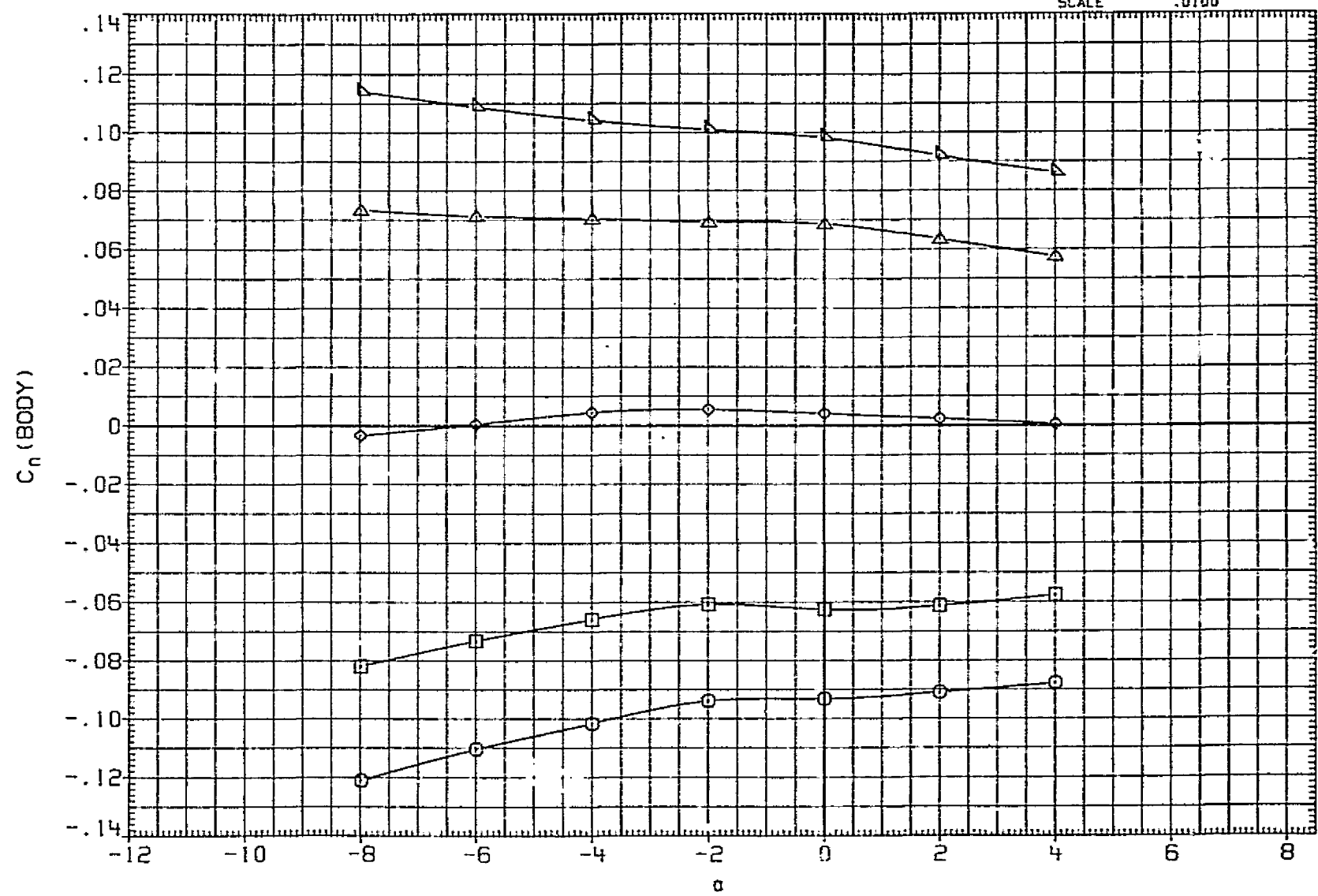


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA37	○	LARC 8FT TPT 749 (1A93) OTSAT130	5.000	12.000	14.000	12.000	14.000	BREF	2580.0000	80. FT.
MJJA38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJA39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJA40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	576.0000	IN. XT
MJJA41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

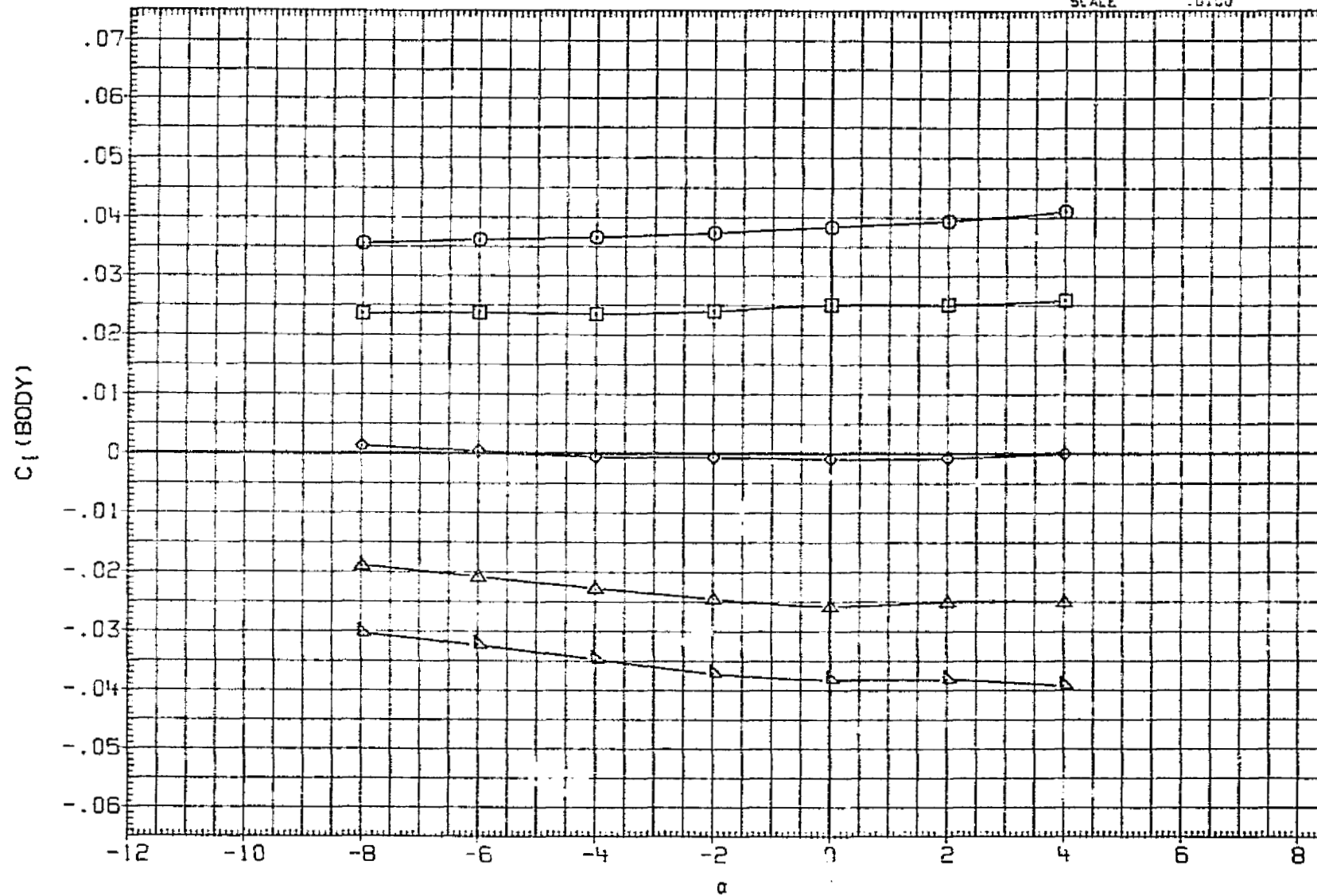


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA42	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50. FT.
MJJA43	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJA44	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJA45	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJA46	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

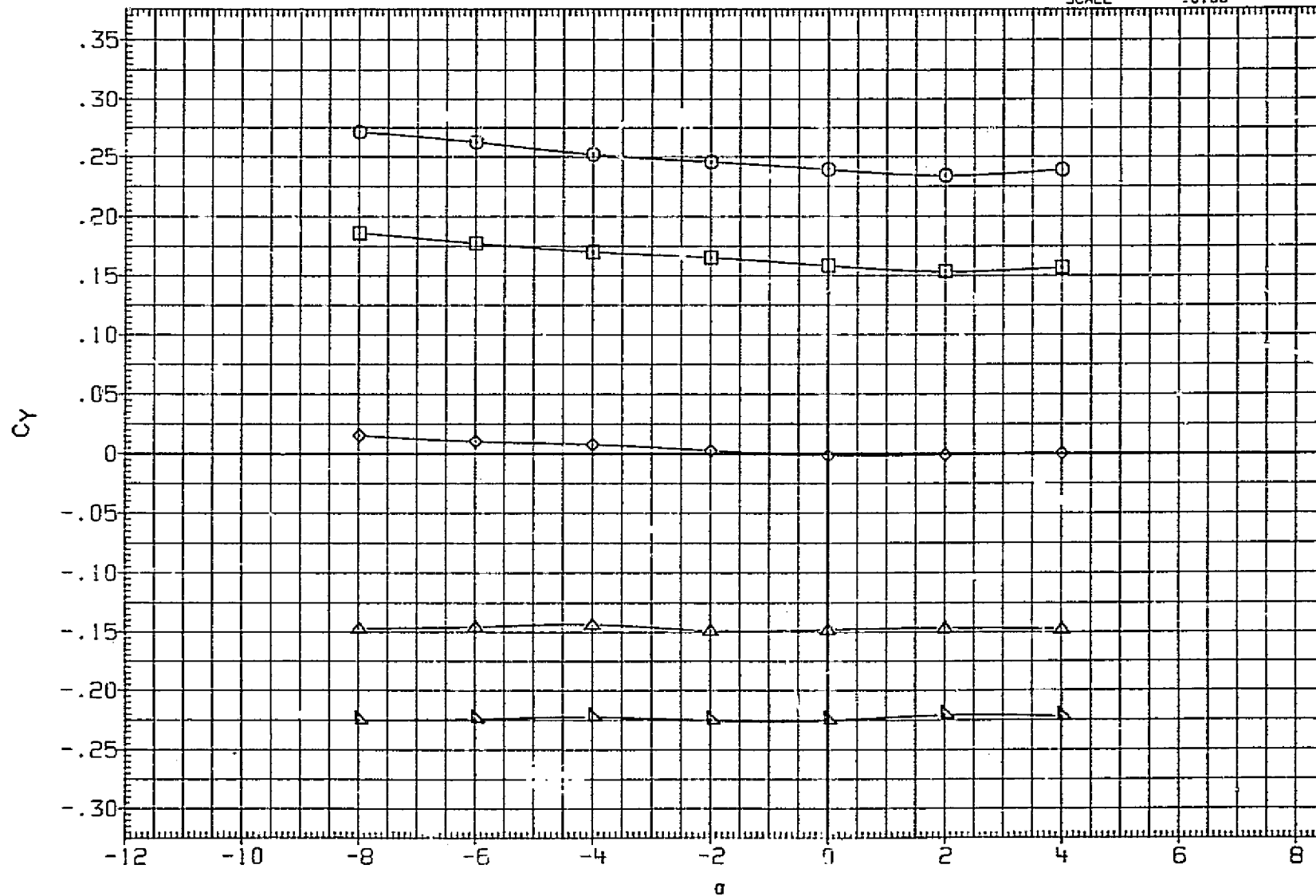


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA42	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000 SQ.FT.
MJJA43	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000 INCHES
MJJA44	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000 INCHES
MJJA45	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000 IN. XT
MJJA46	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000 IN. YT
							ZMRP	400.0000 IN. ZT
							SCALE	.0100

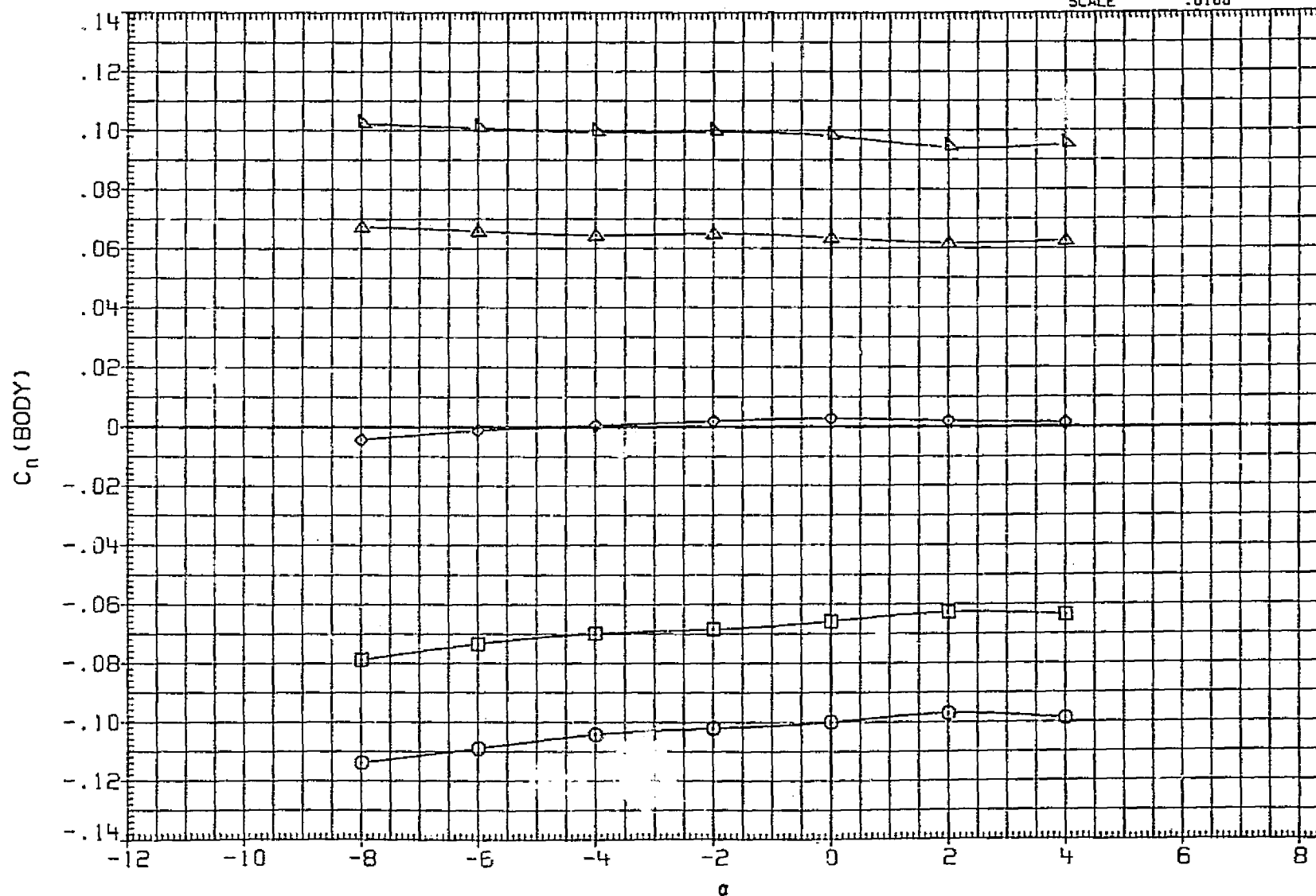


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000 SO.FT.
MJJA43	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000 INCHES
MJJA44	◊	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000 INCHES
MJJA45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000 IN. XT
MJJA46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

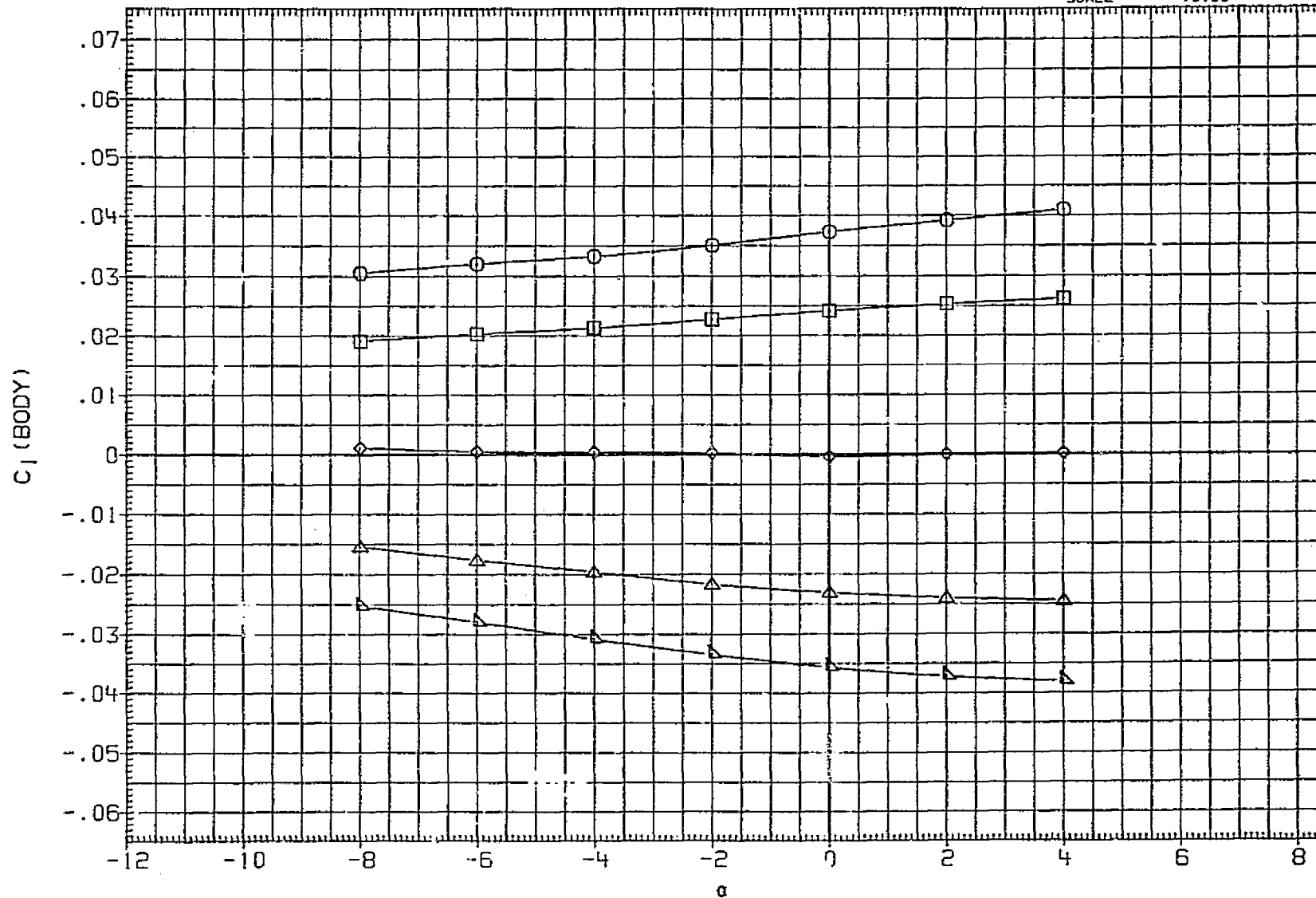


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA42	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000 SQ.FT.
MJJA43	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000 INCHES
MJJA44	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000 INCHES
MJJA45	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000 IN. XT
MJJA46	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000 IN. YT
							ZMRP	400.0000 IN. ZT
							SCALE	.0100

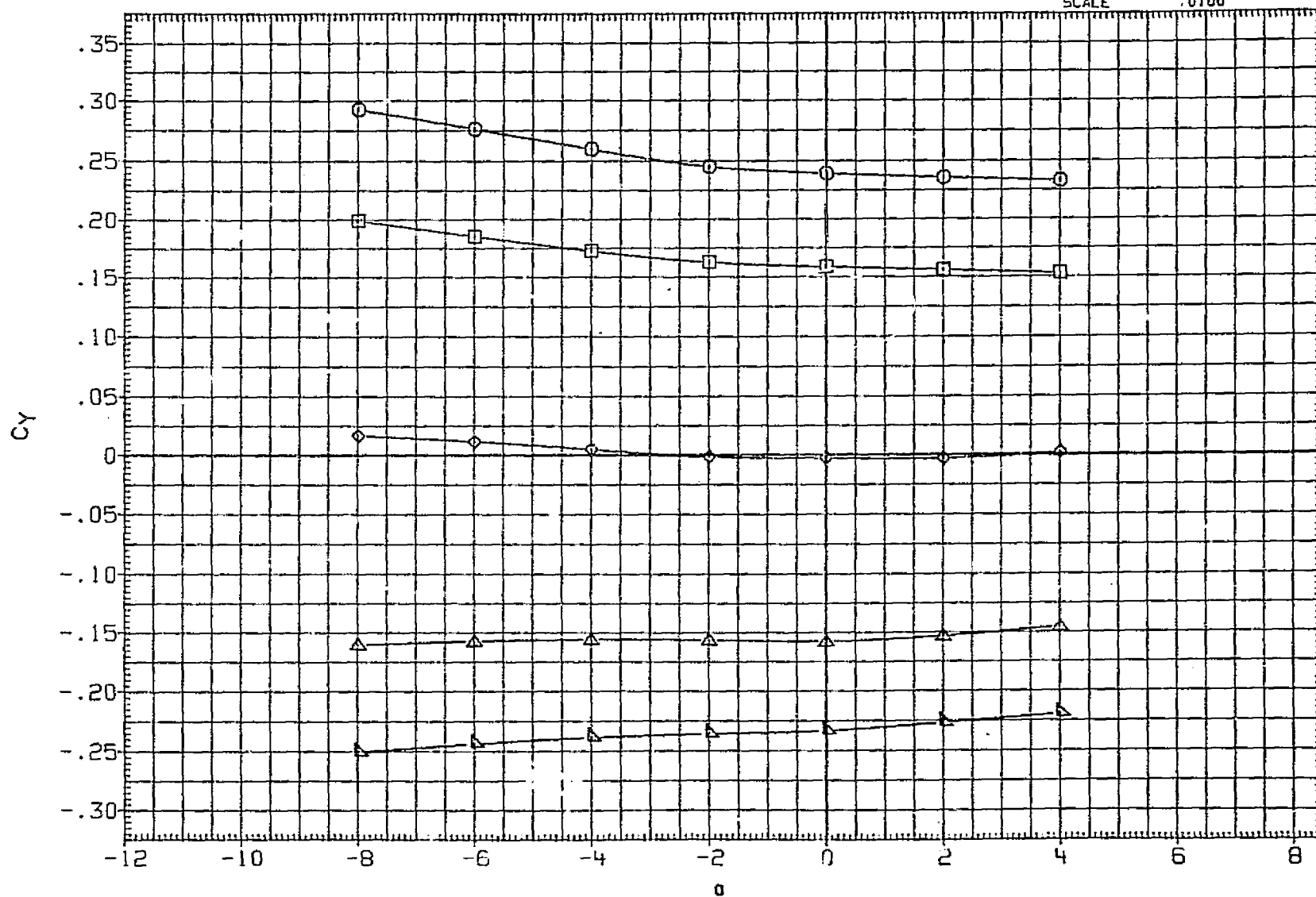


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA42	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50. FT.
MJJA43	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJA44	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJA45	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJA46	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

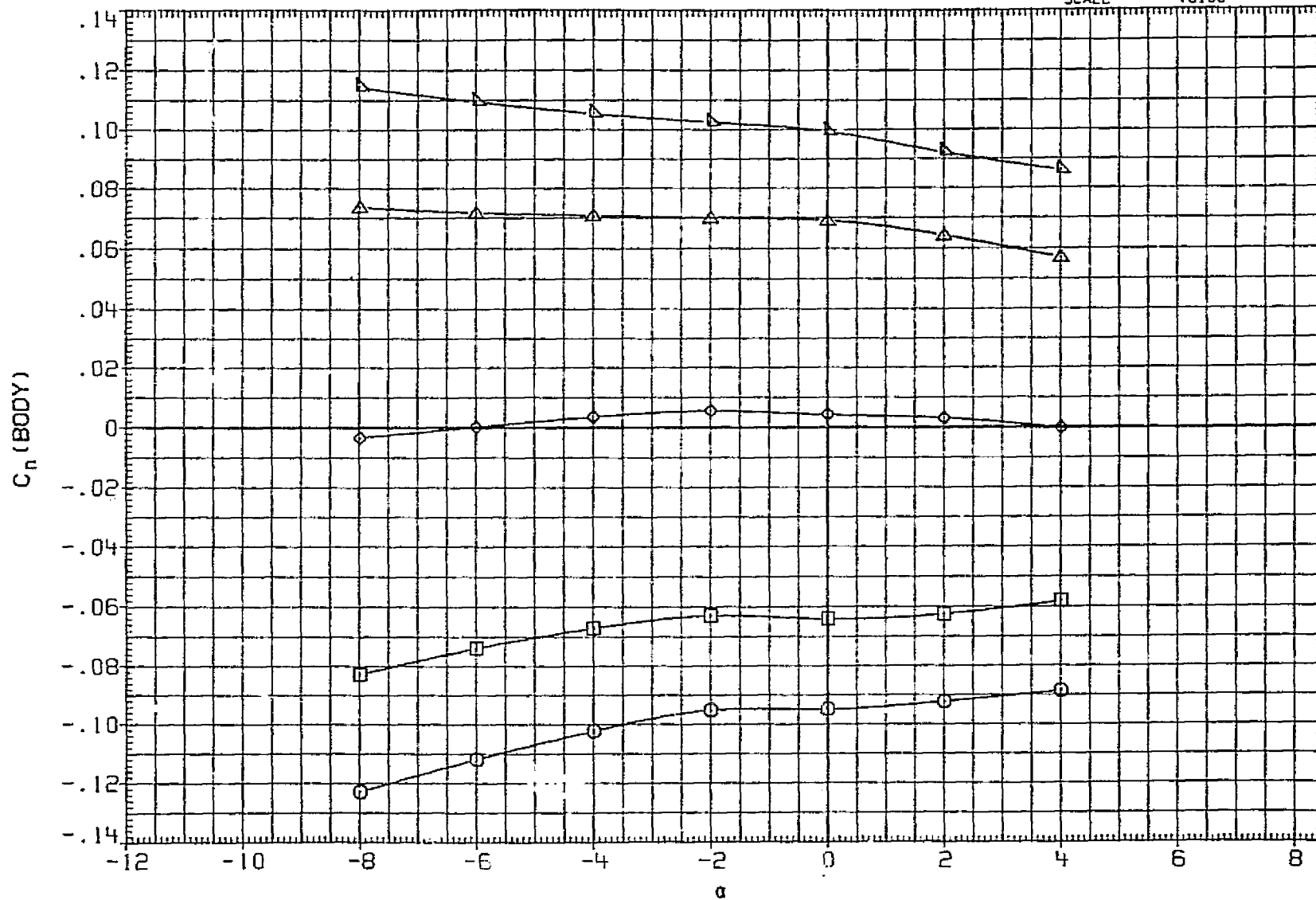


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA43	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50. FT.
MJJA43	○	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJA44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	SREF	1290.3000	INCHES
MJJA45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	975.0000	IN. XT
MJJA46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

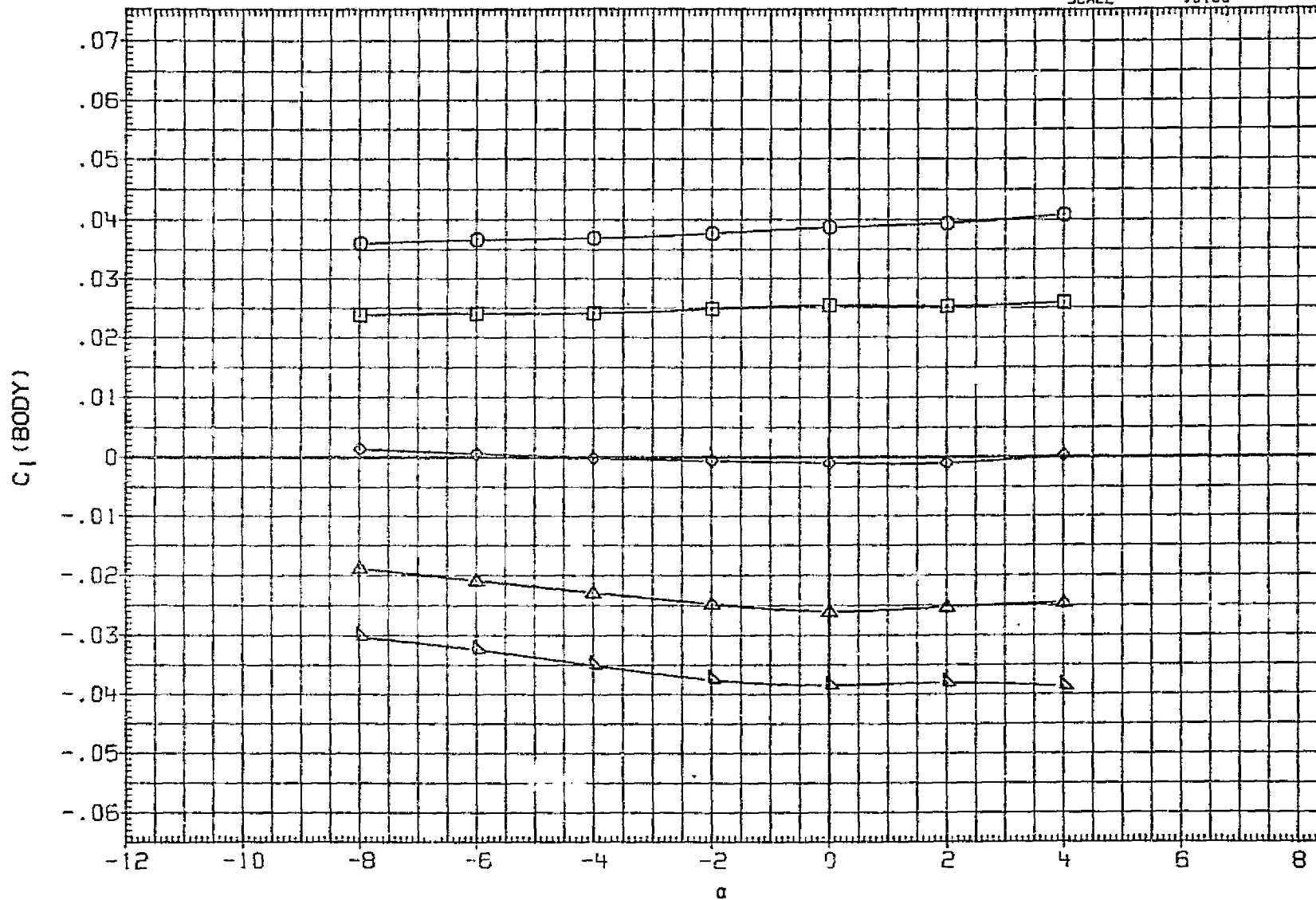


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJA48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

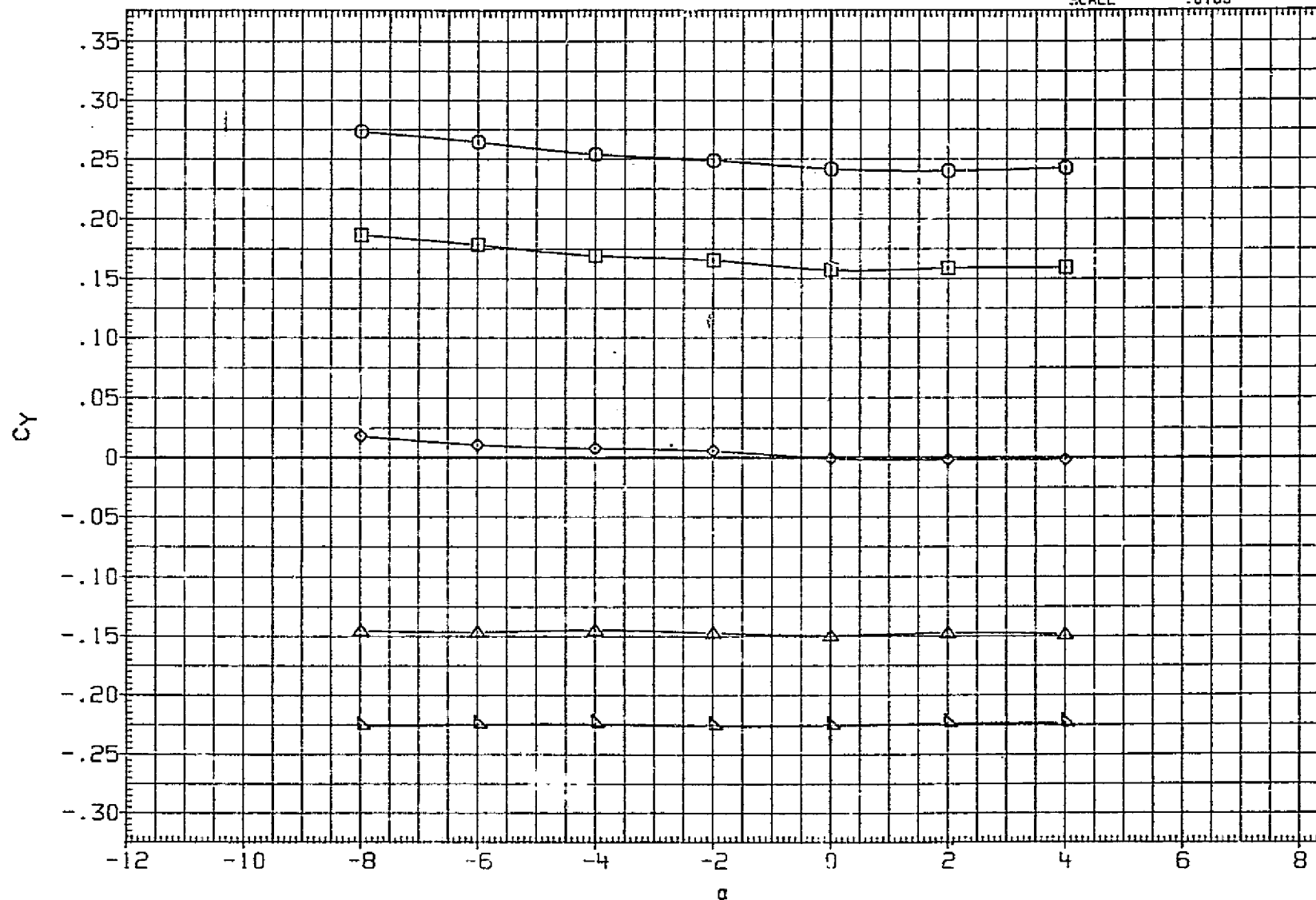


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJA48	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

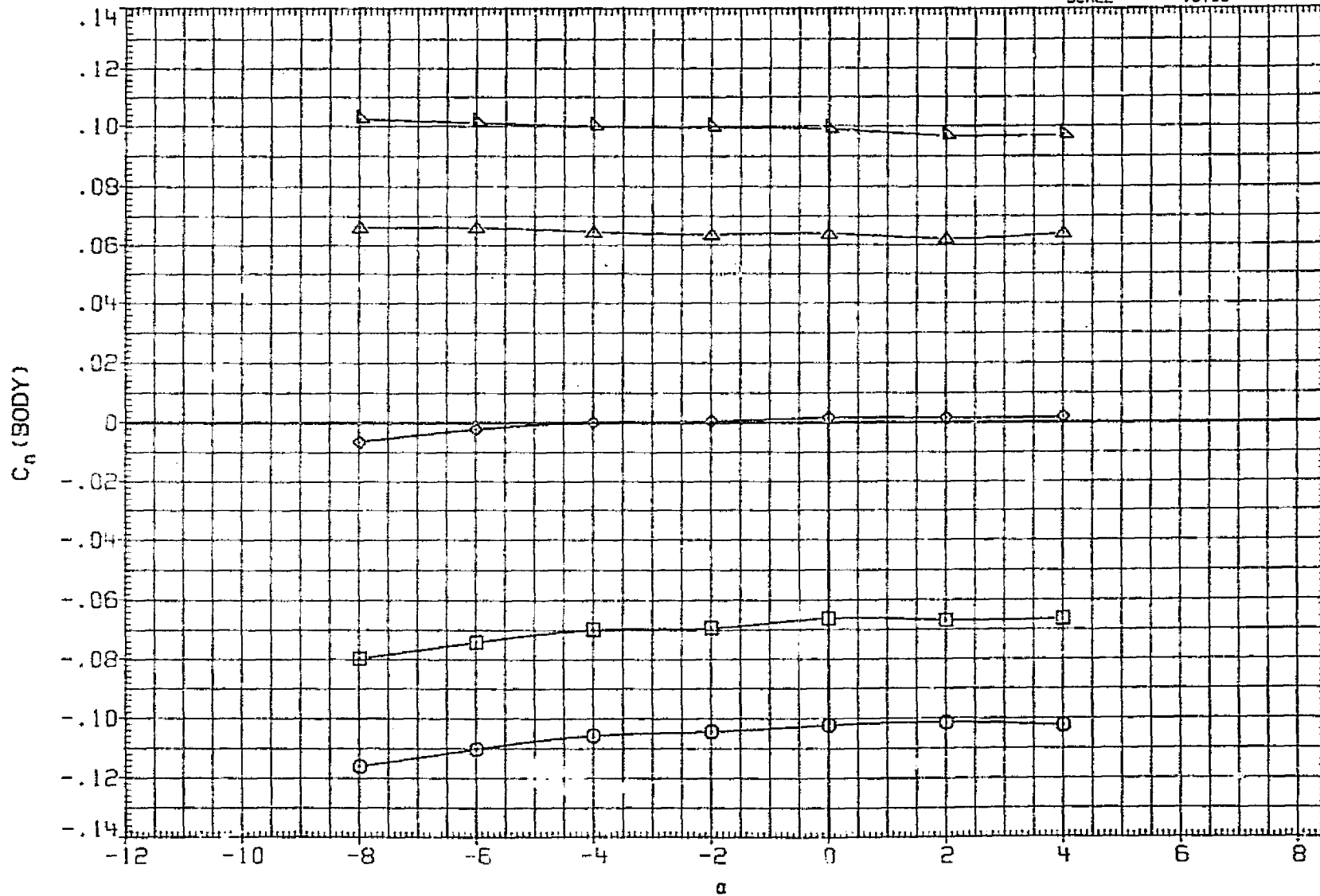


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

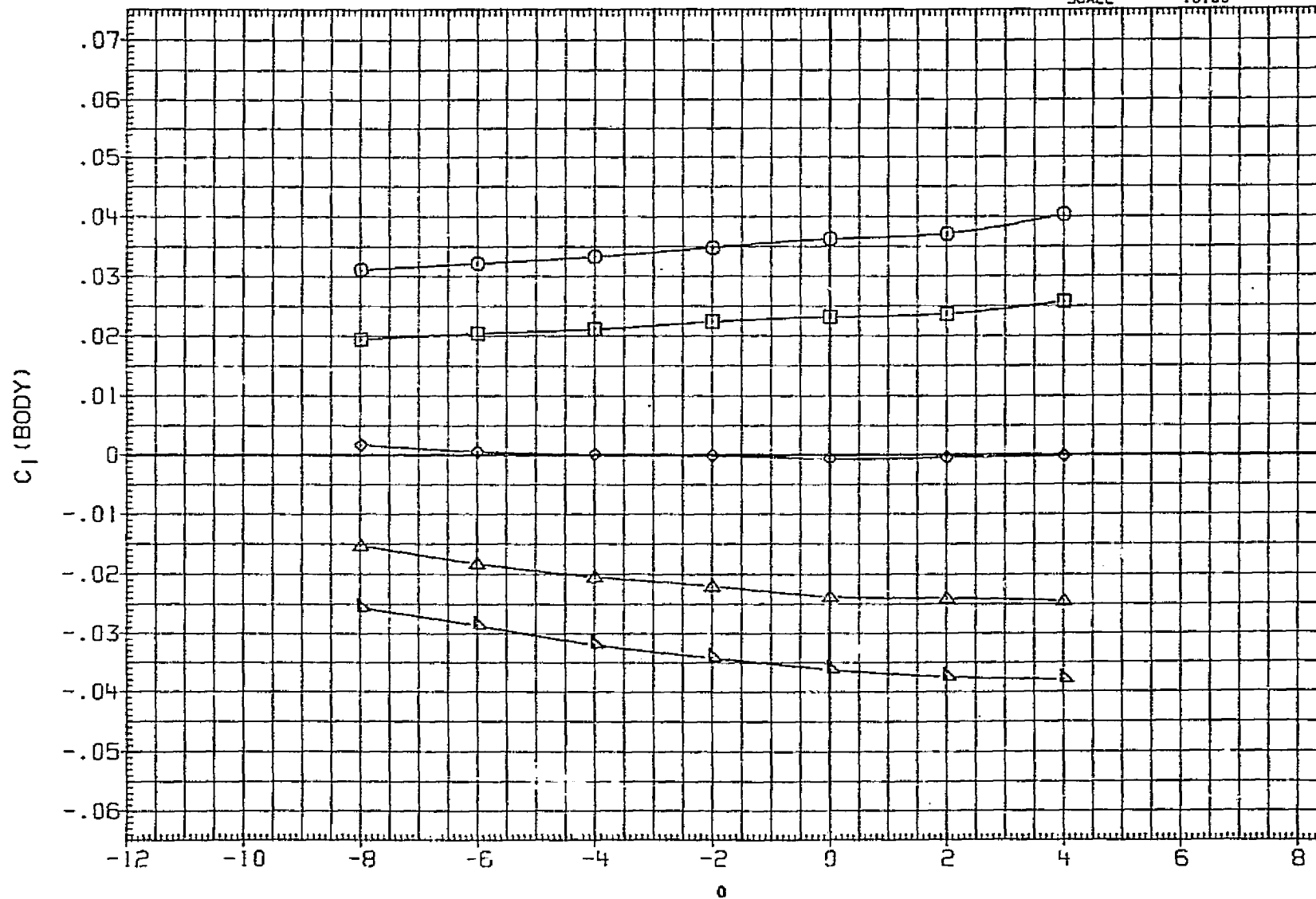


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

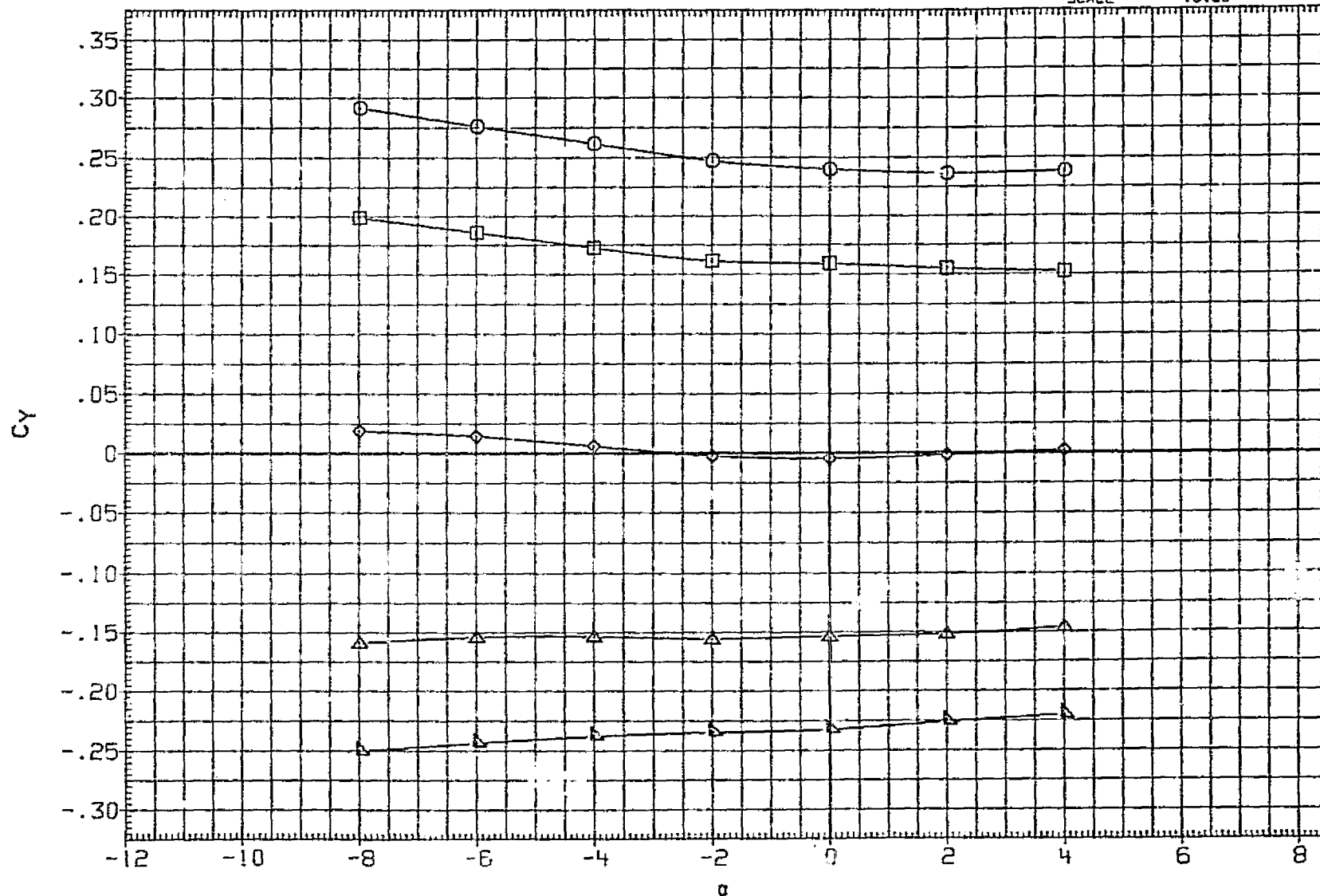


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJA48	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	□	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. YT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

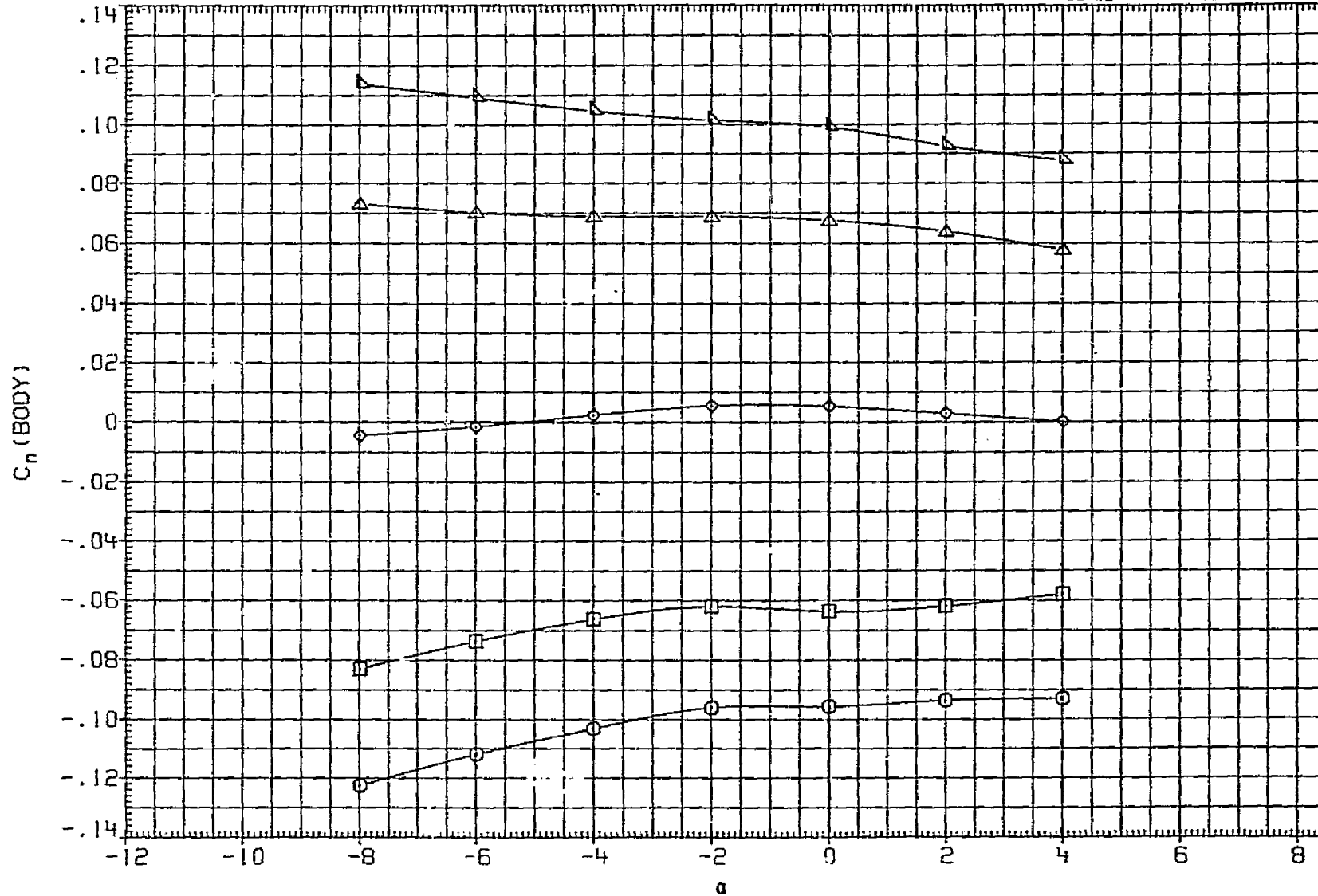


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	8.000	4.000	8.000	4.000	BREF	2690.0000	60. FT.
MJJA48	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

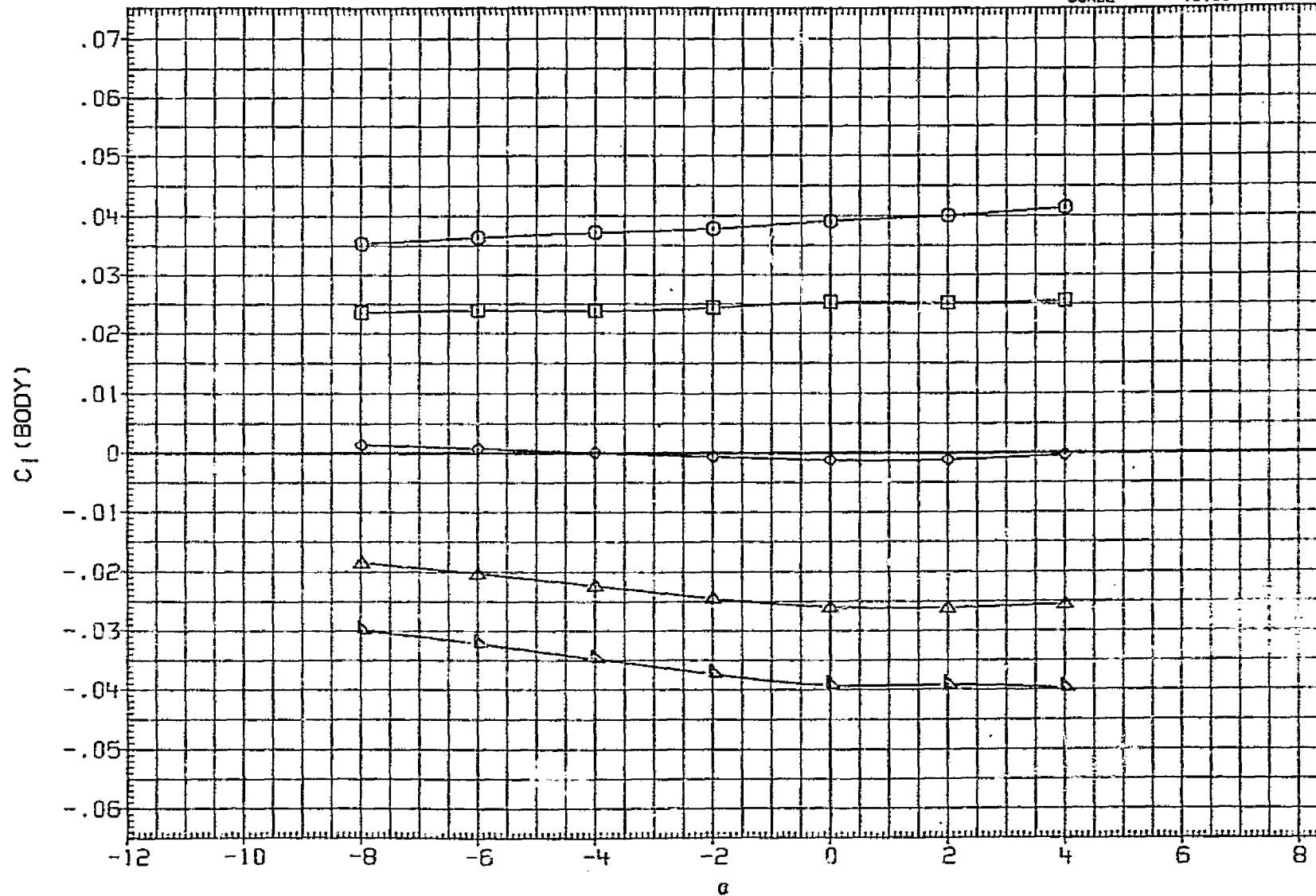


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	975.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

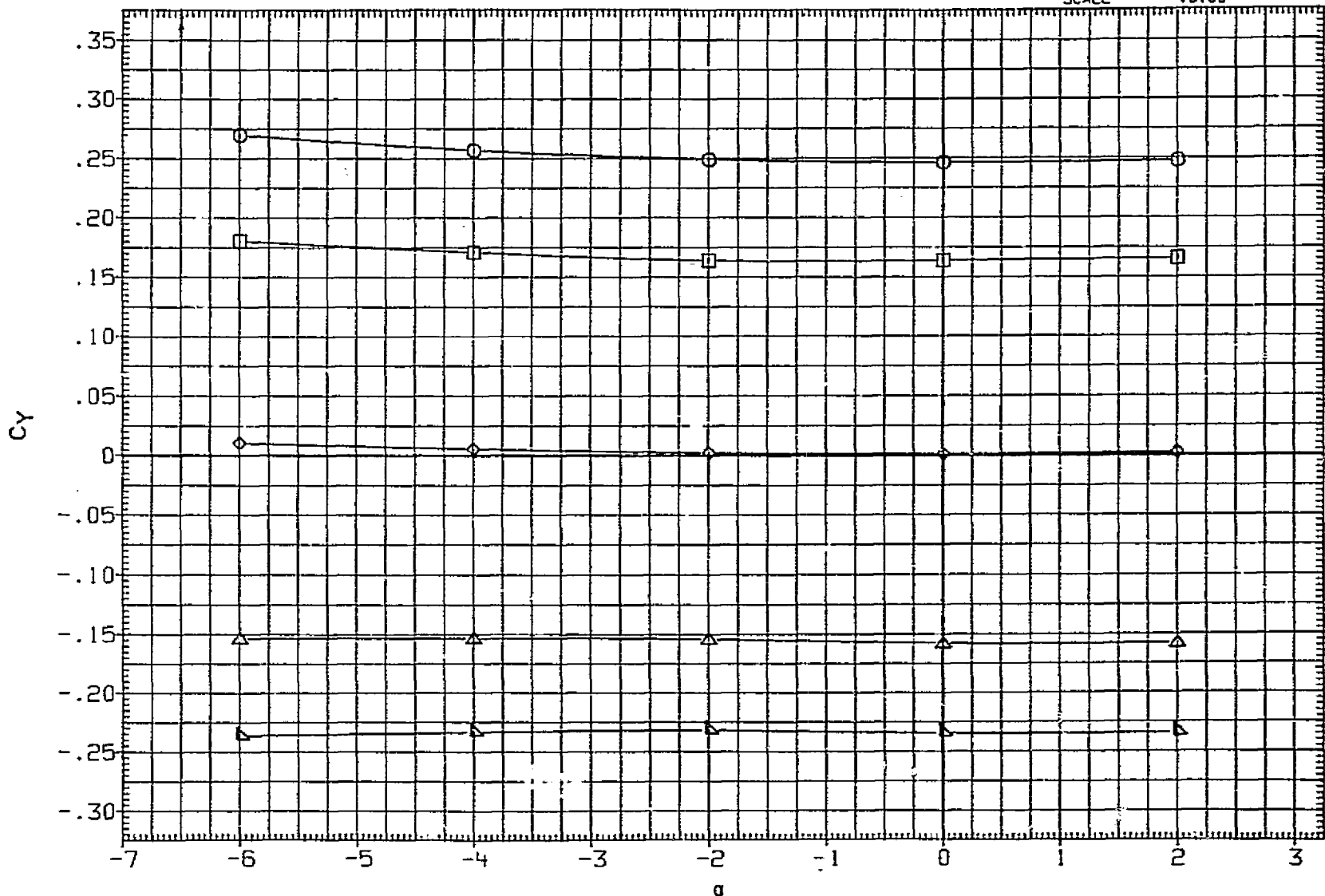


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA47	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF 2699.0000 SQ.FT.
MJJA48	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF 1290.3000 INCHES
MJJA49	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF 1290.3000 INCHES
MJJA50	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP 976.0000 IN. XT
MJJA51	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

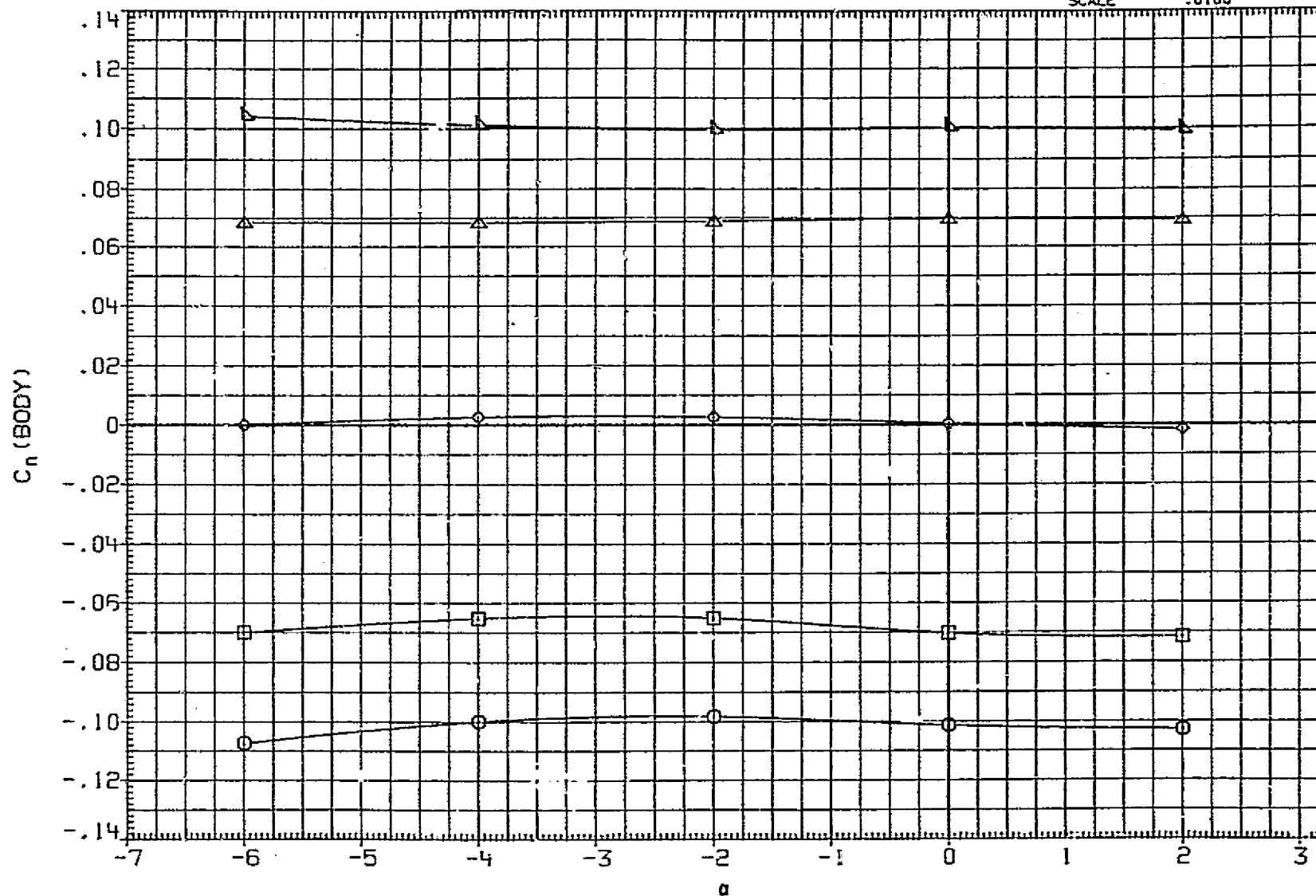


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SO. FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

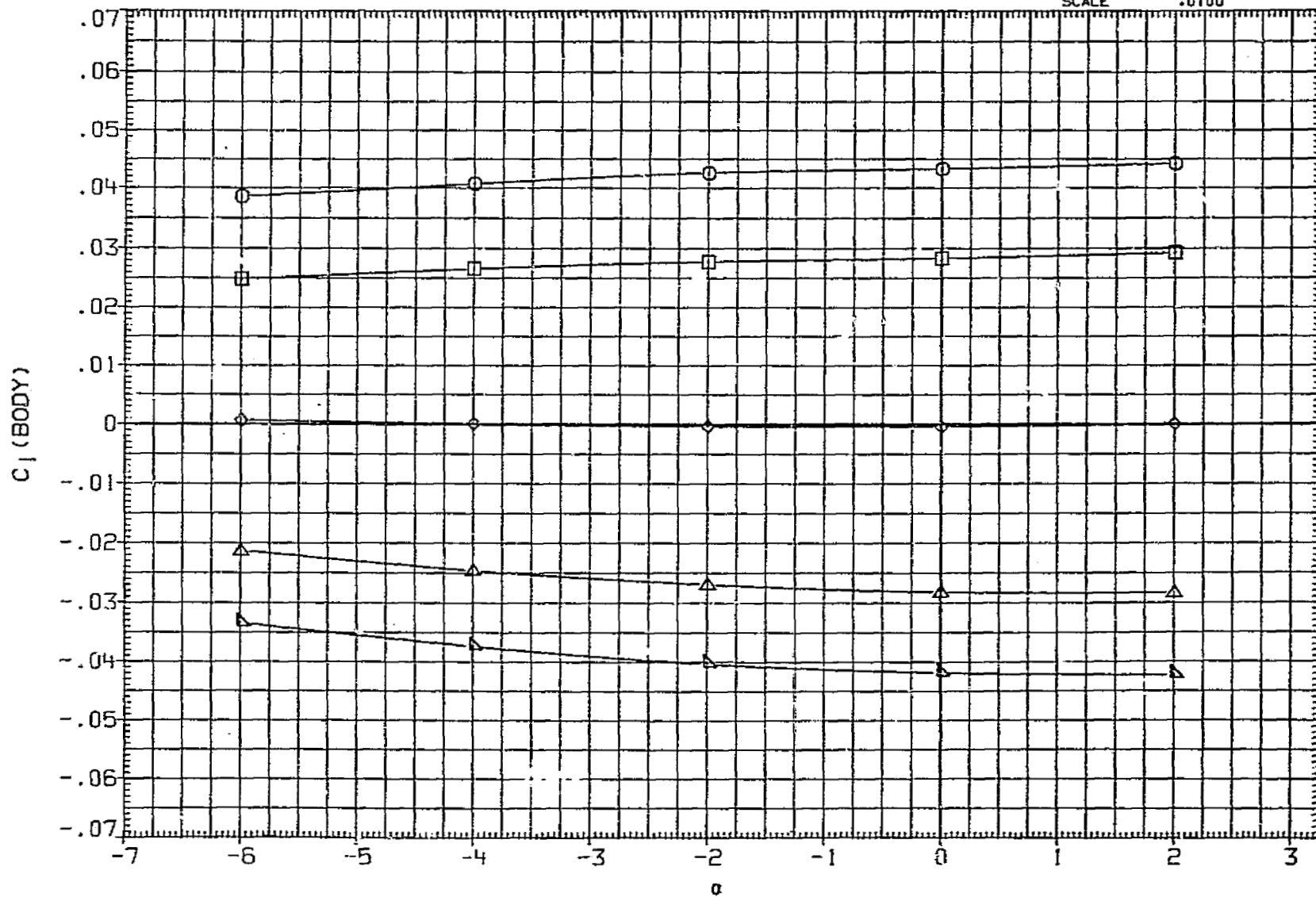


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA47	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF 2690.0000 59. FT.
MJJA48	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF 1290.3000 INCHES
MJJA49	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	SREF 1290.3000 INCHES
MJJA50	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP 376.6000 IN. XT
MJJA51	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

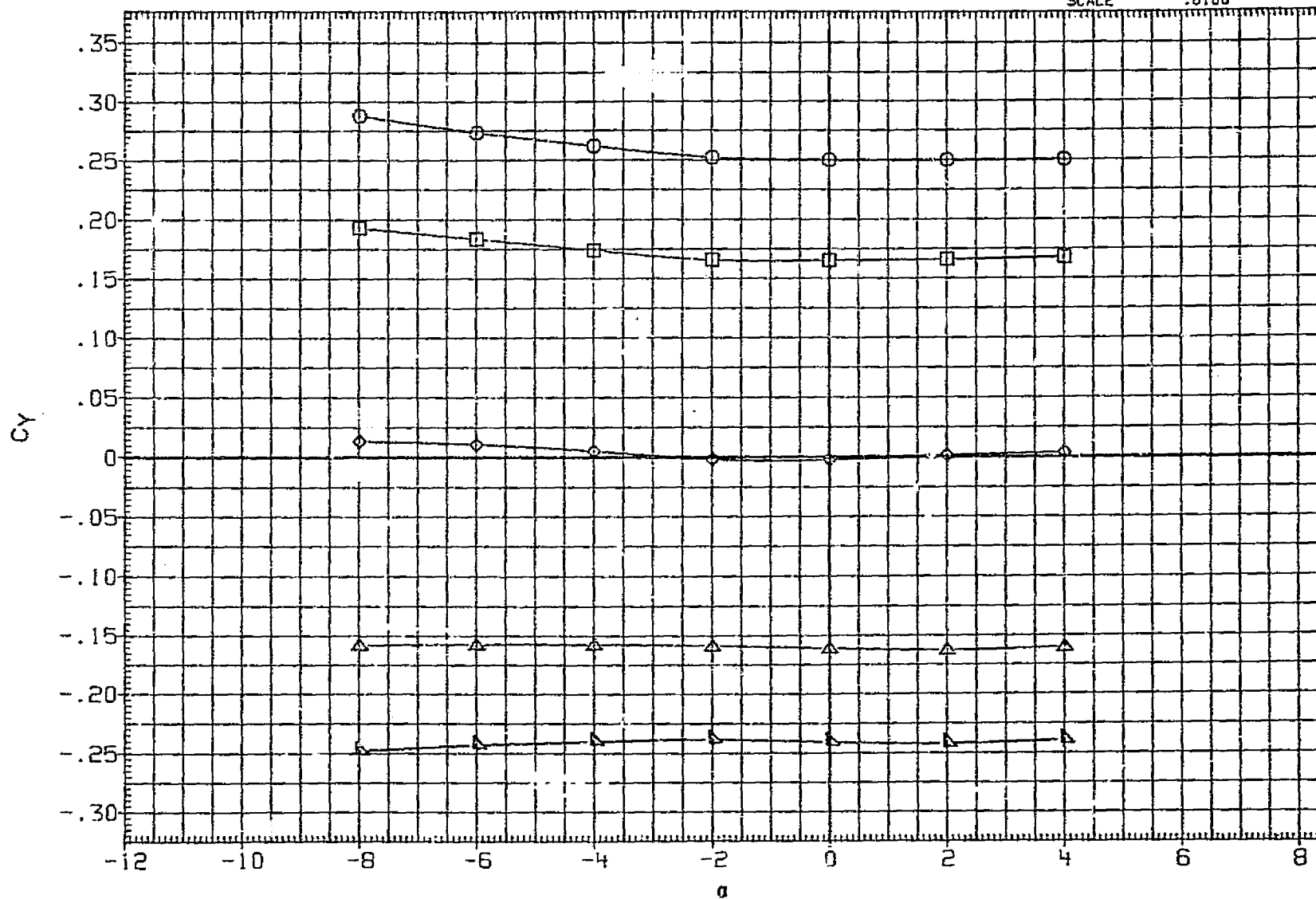


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJA48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

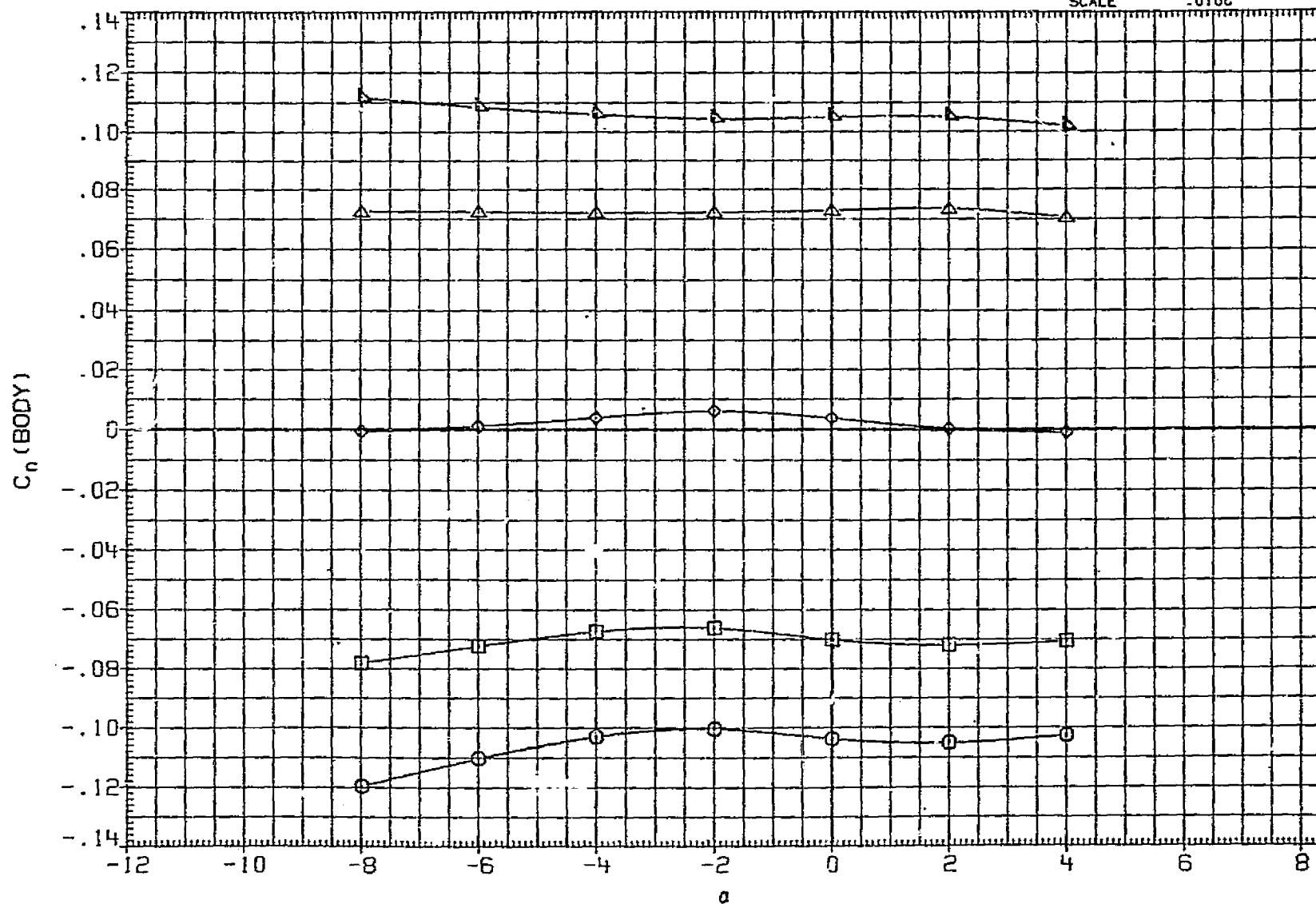


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2650.0000	SQ.FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

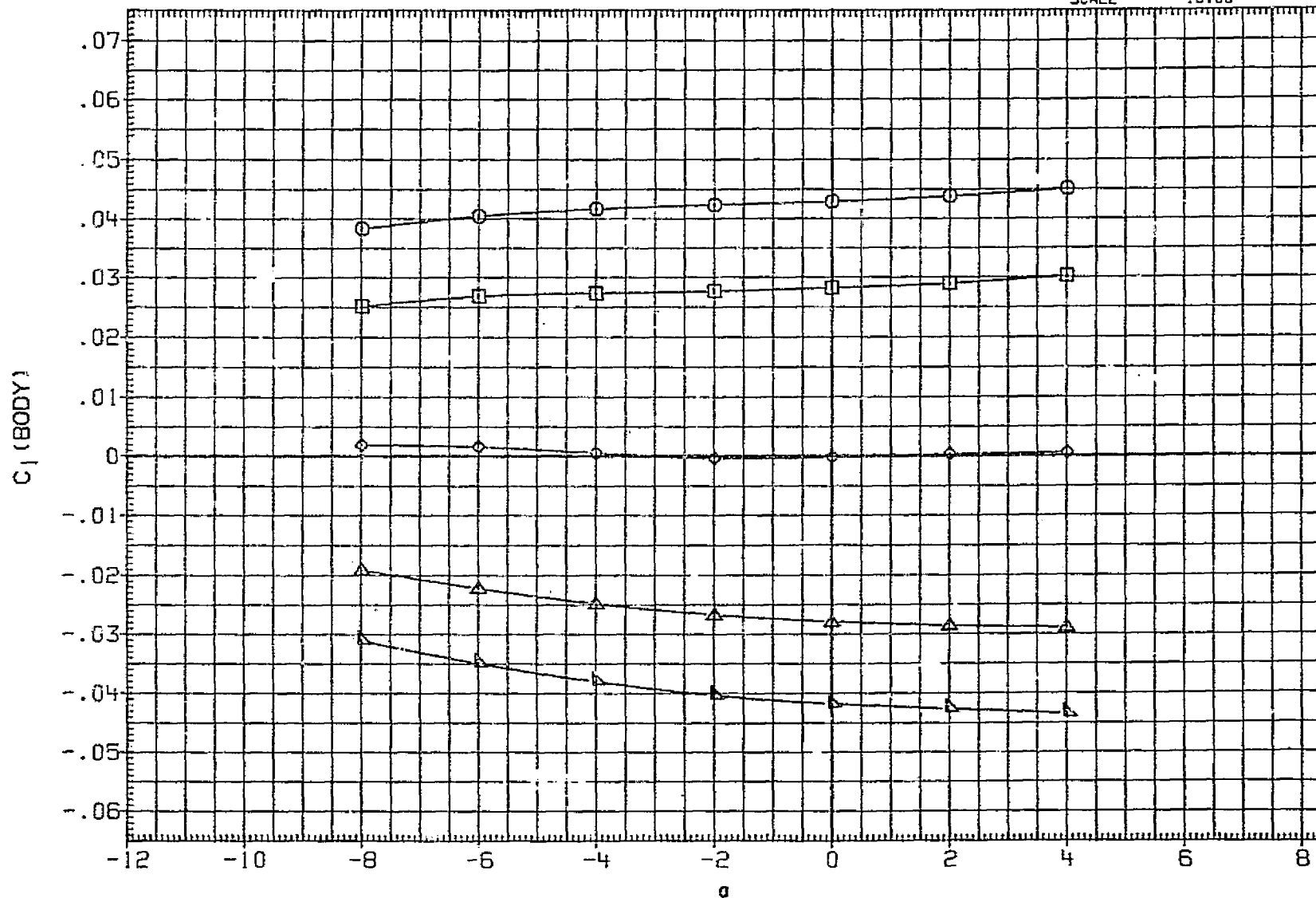


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50. FT.
MJJA53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1296.3000	INCHES
MJJA55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

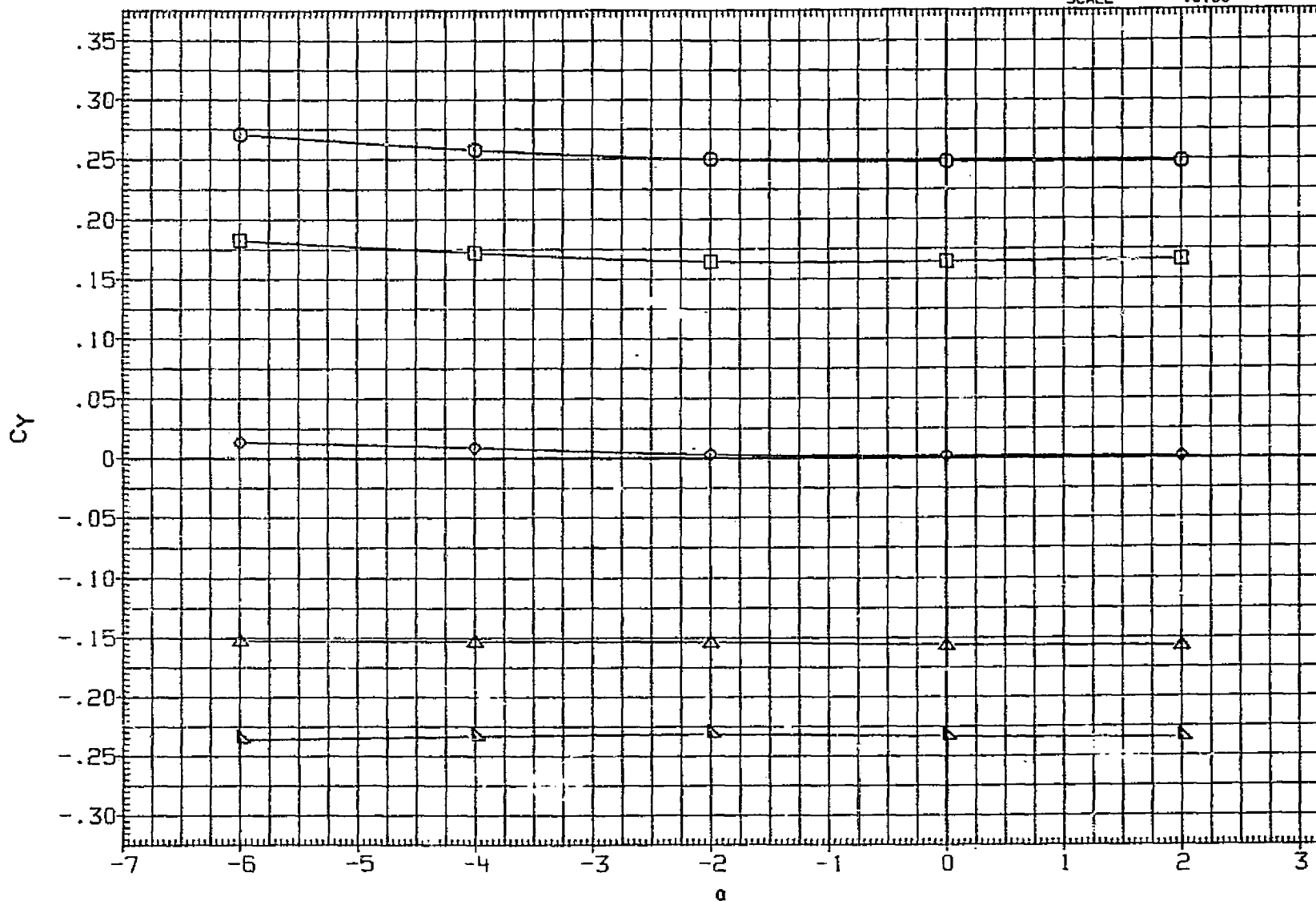


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50. FT.
MJJA53	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

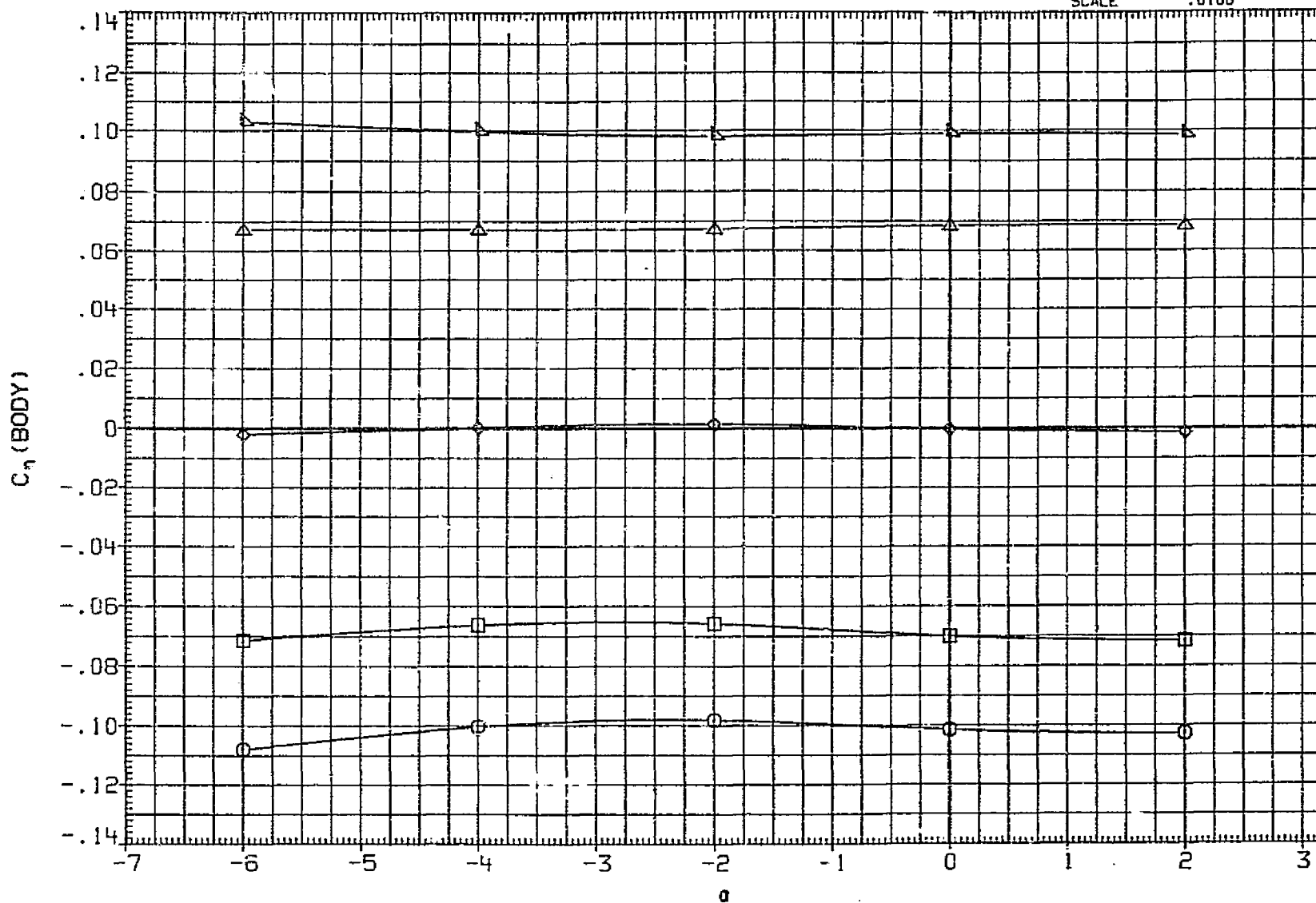


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ FT.
MJJA53	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.8000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

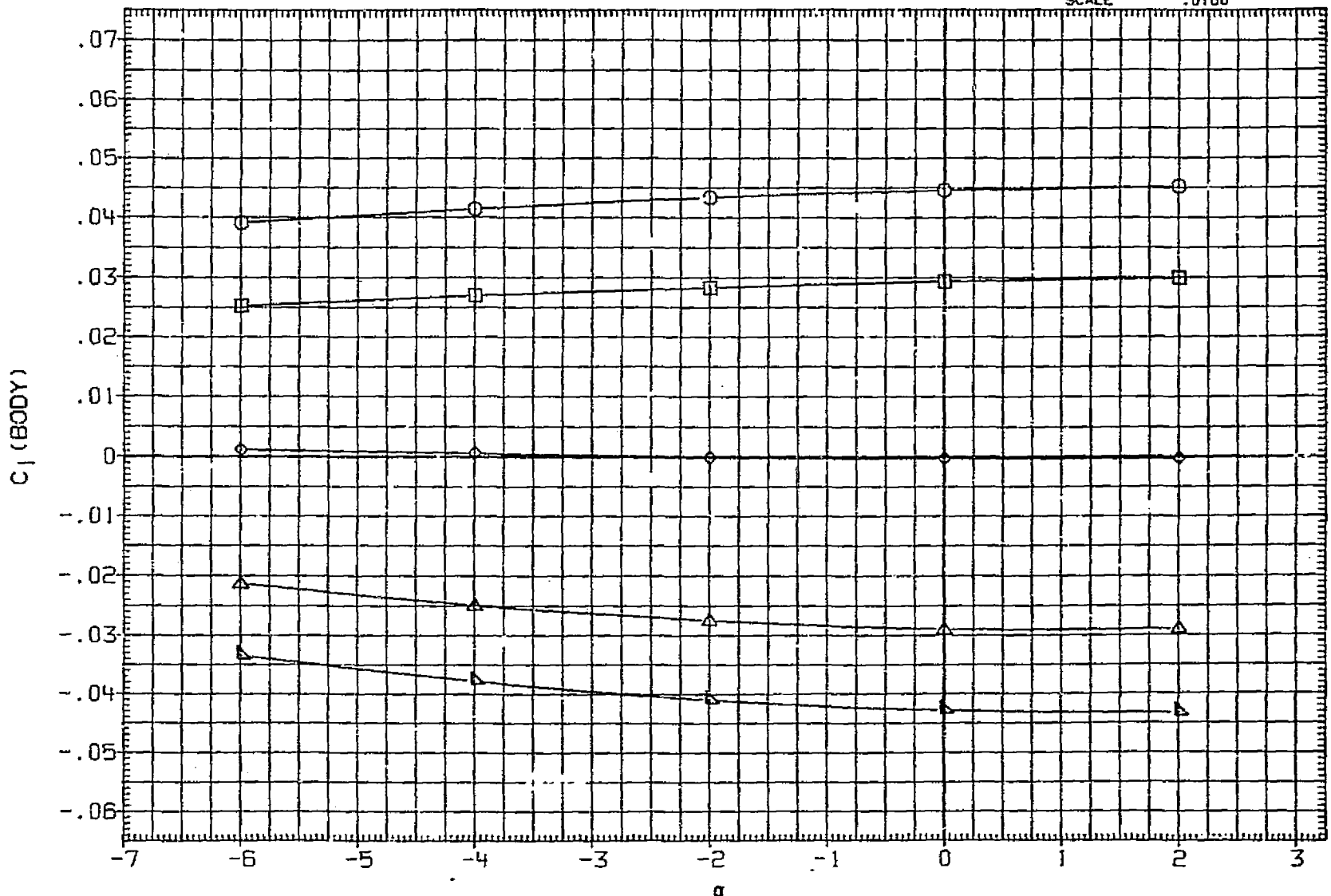


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50. FT.
MJJA53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. YI
MJJA56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YI
								ZMRP	400.0000	IN. ZI
								SCALE	.0100	

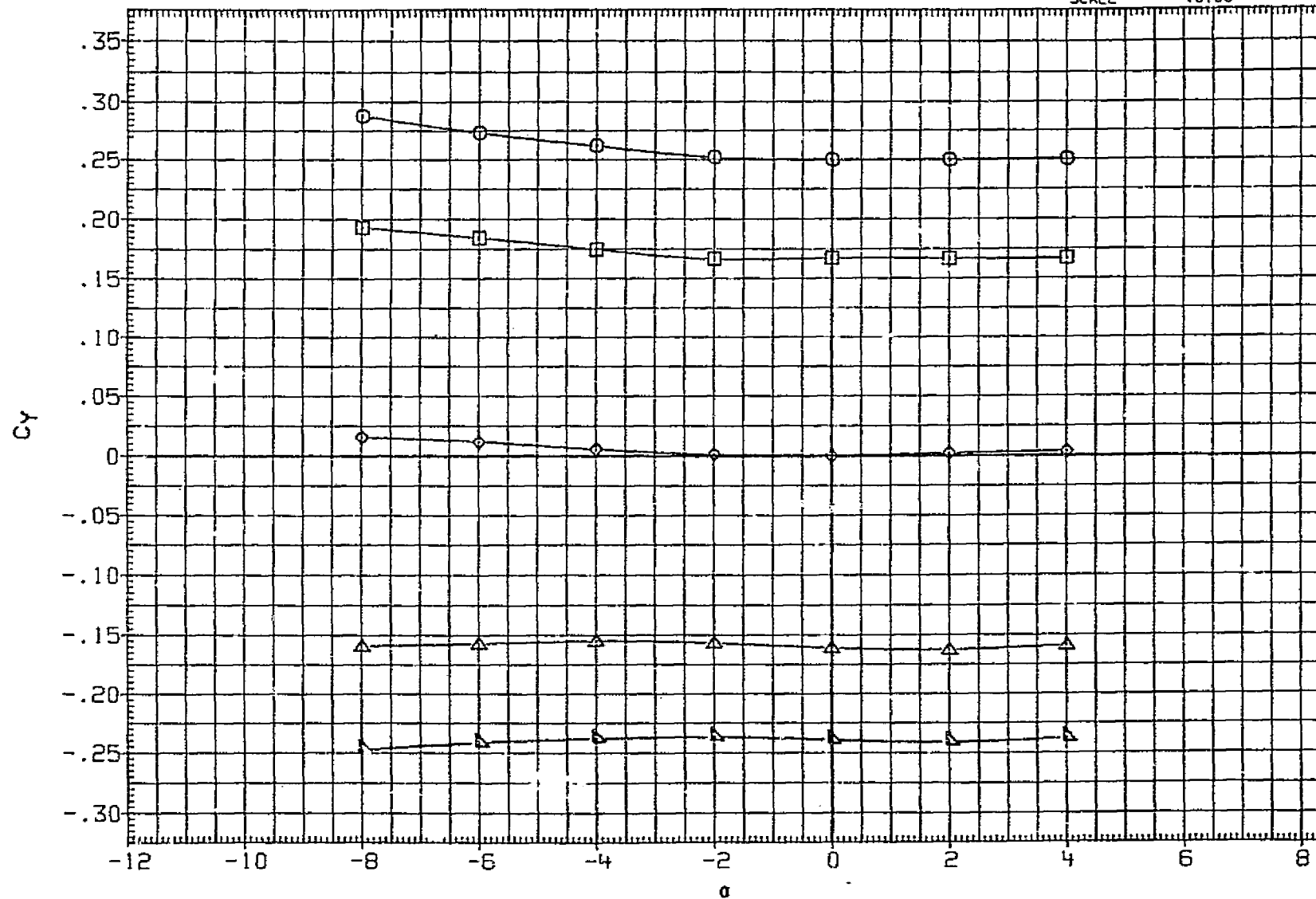


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50.FT.
MJJA53	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	YMRP	976.0000	IN. YT
MJJA56	△	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

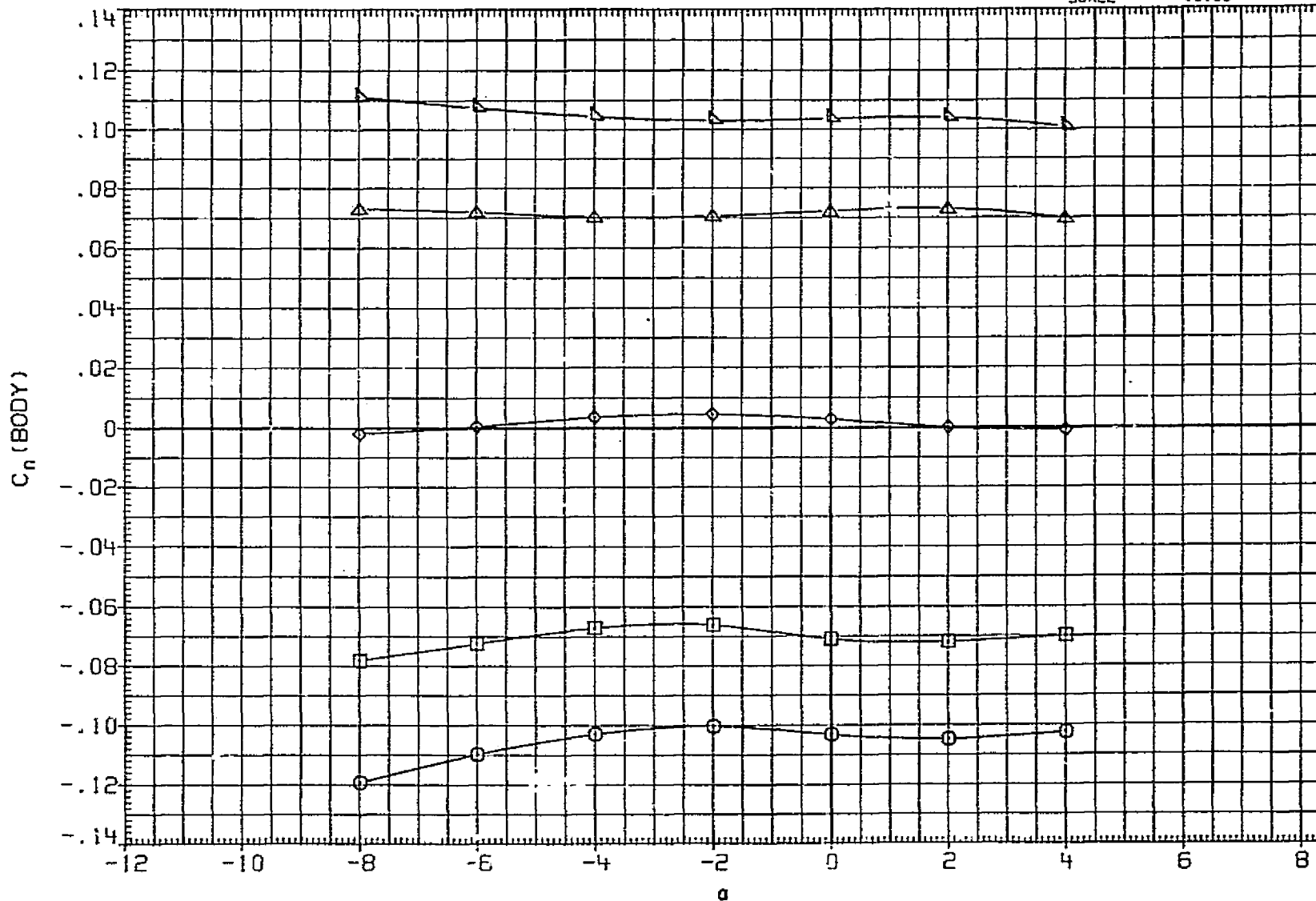


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2890.0000	SQ. FT.
MJJA53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

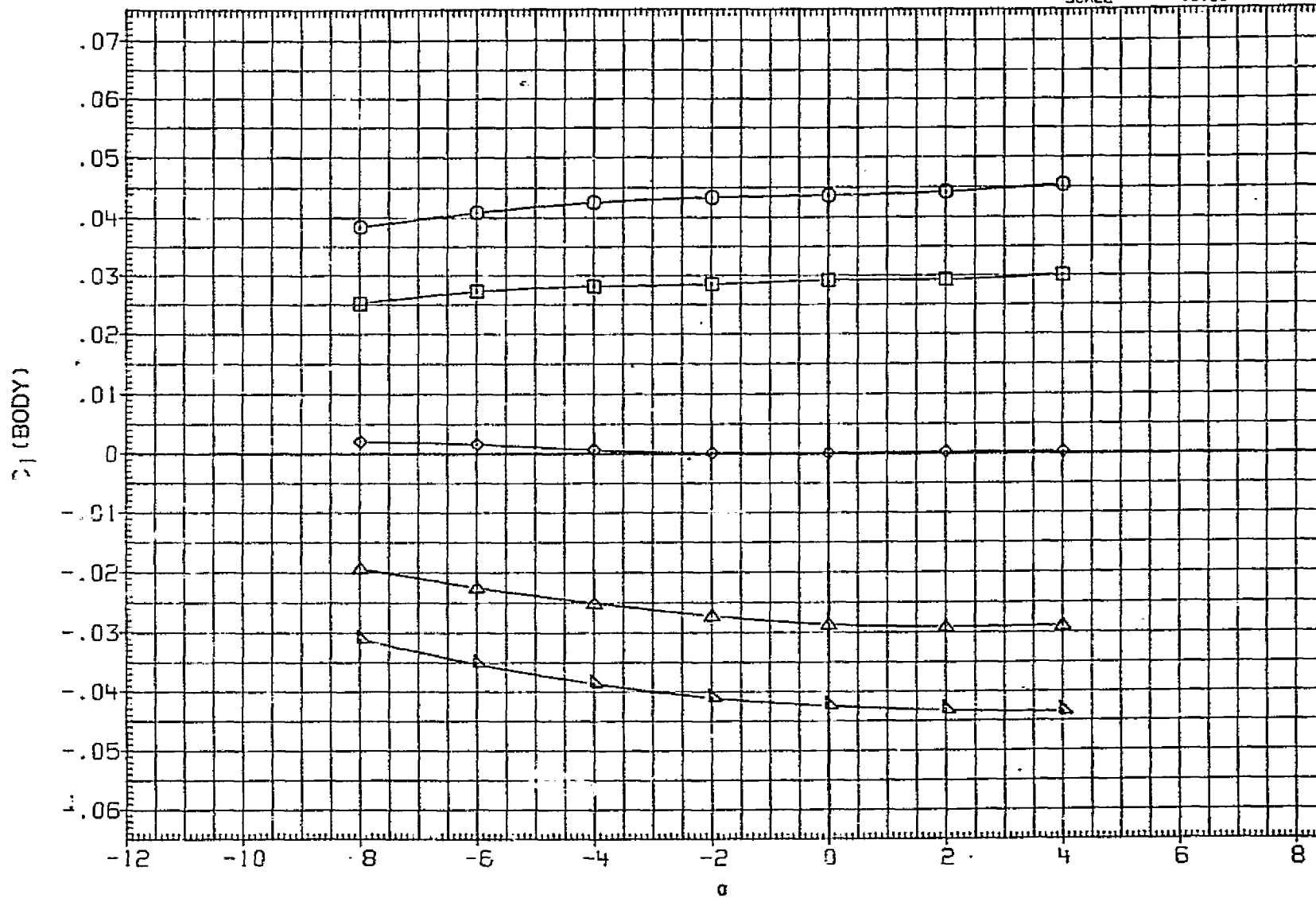


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-P1	ELV-R0	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	YMHP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMHP	.0000	IN. YT
								ZMHP	400.0000	IN. ZT
								SCALE	.0100	

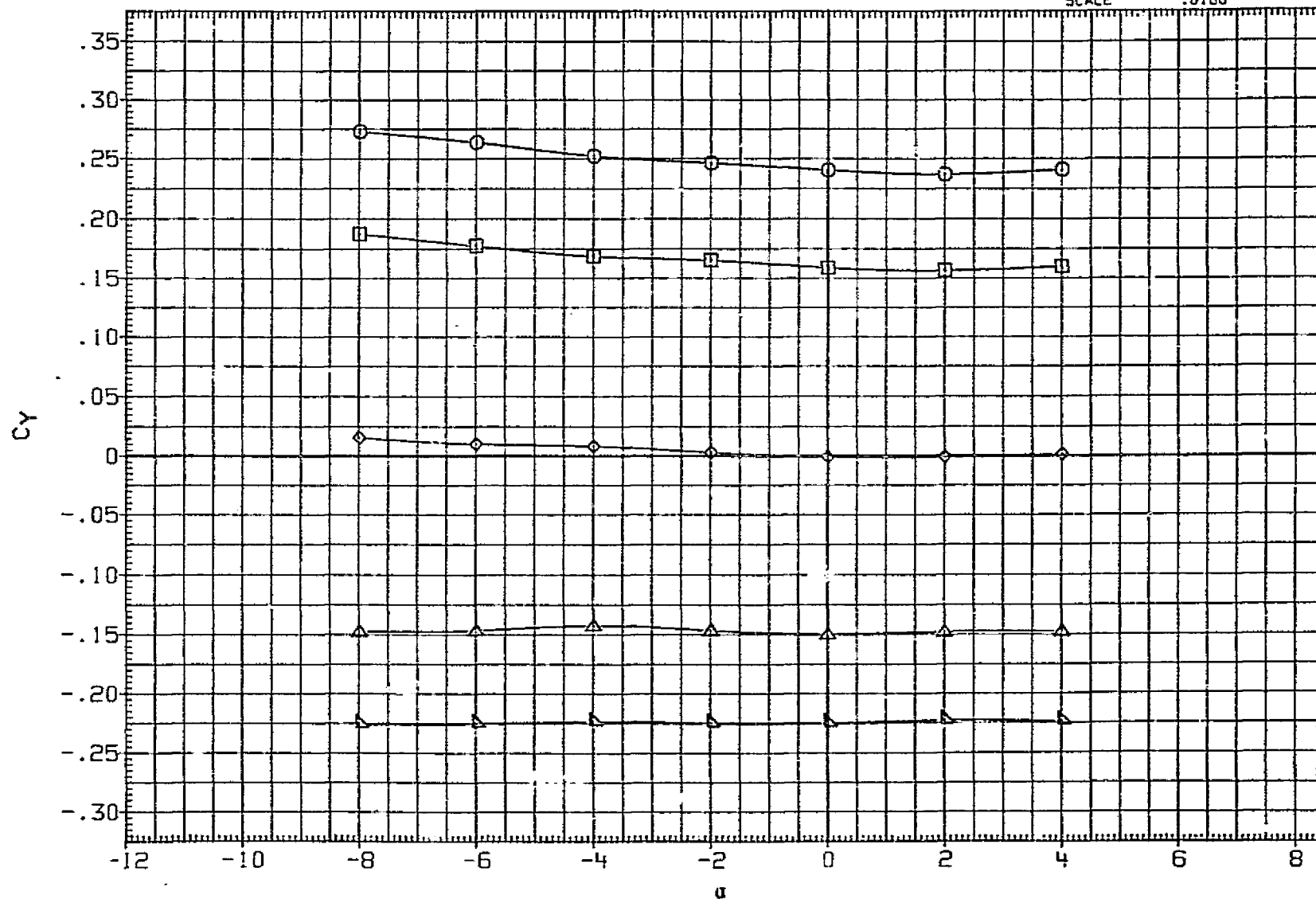


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION	
HJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SEEF	2899.0000 EG. FT.
HJJA59	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1230.3000 INCHES
HJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1230.3000 INCHES
HJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000 IN. XT
HJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

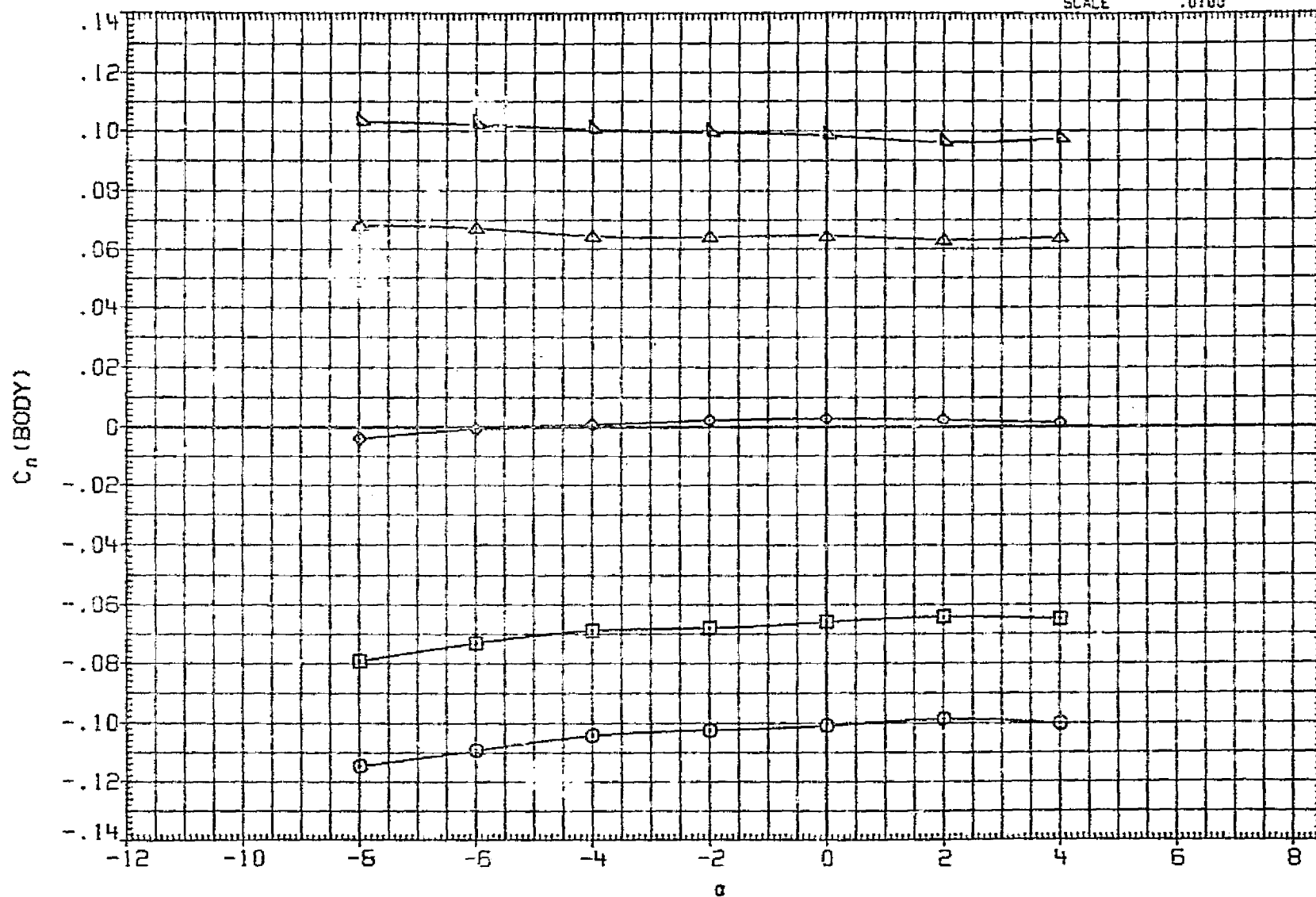


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50. FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	RREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

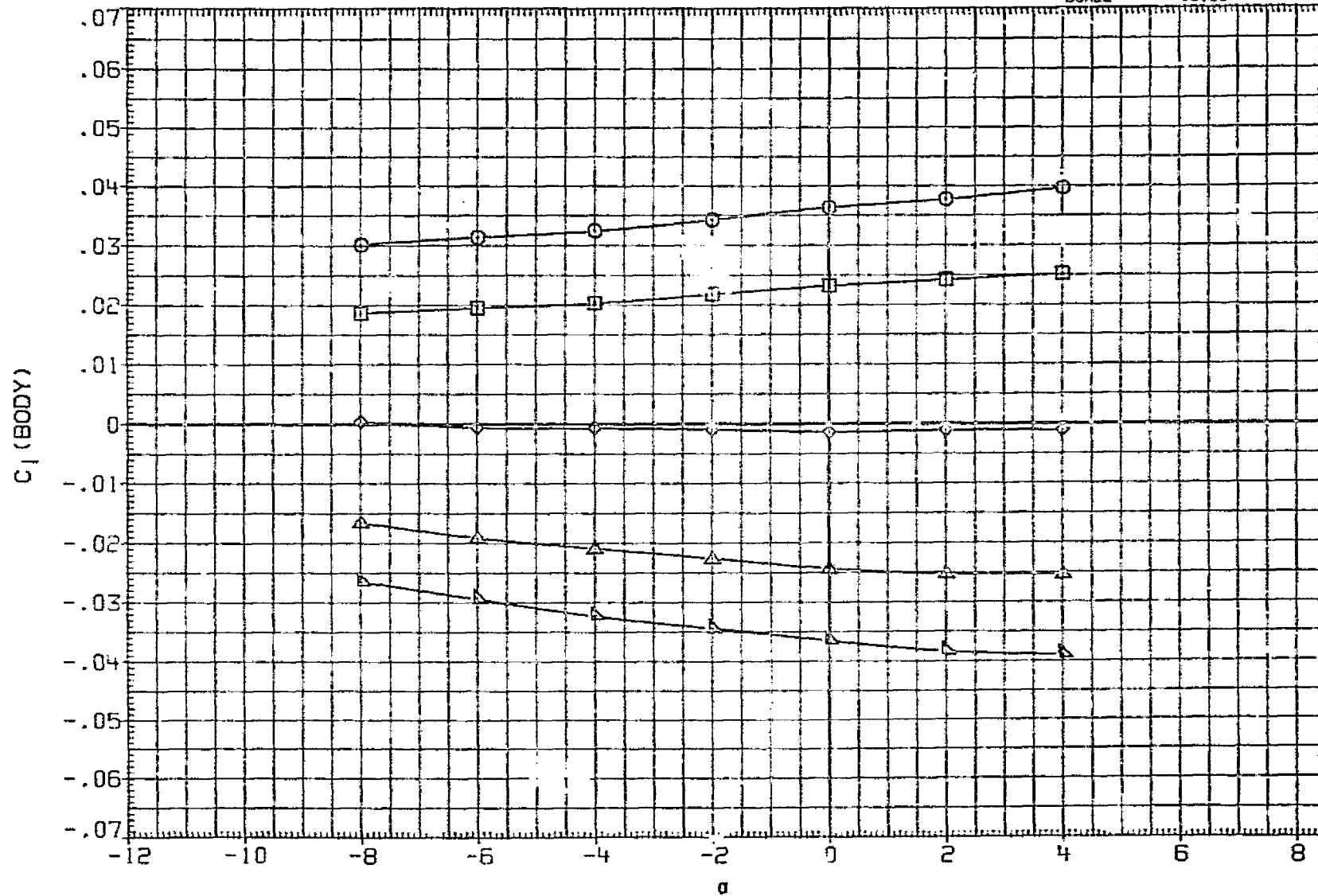


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION
MJJA87	○	LARC 8FT TPT 748 (1A93) OTSAT130	-6.000	9.000	9.000	9.000	9.000	REF 8880.0000 89.571
MJJA88	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	9.000	9.000	9.000	9.000	REF 8880.0000 89.571
MJJA89	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	9.000	9.000	9.000	9.000	REF 8880.0000 89.571
MJJA91	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	9.000	9.000	9.000	REF 8880.0000 89.571
MJJA92	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	9.000	9.000	9.000	9.000	REF 8880.0000 89.571
								YMRP .0000 10.000
								ZMRP 500.0000 10.000
								SCALE .0100

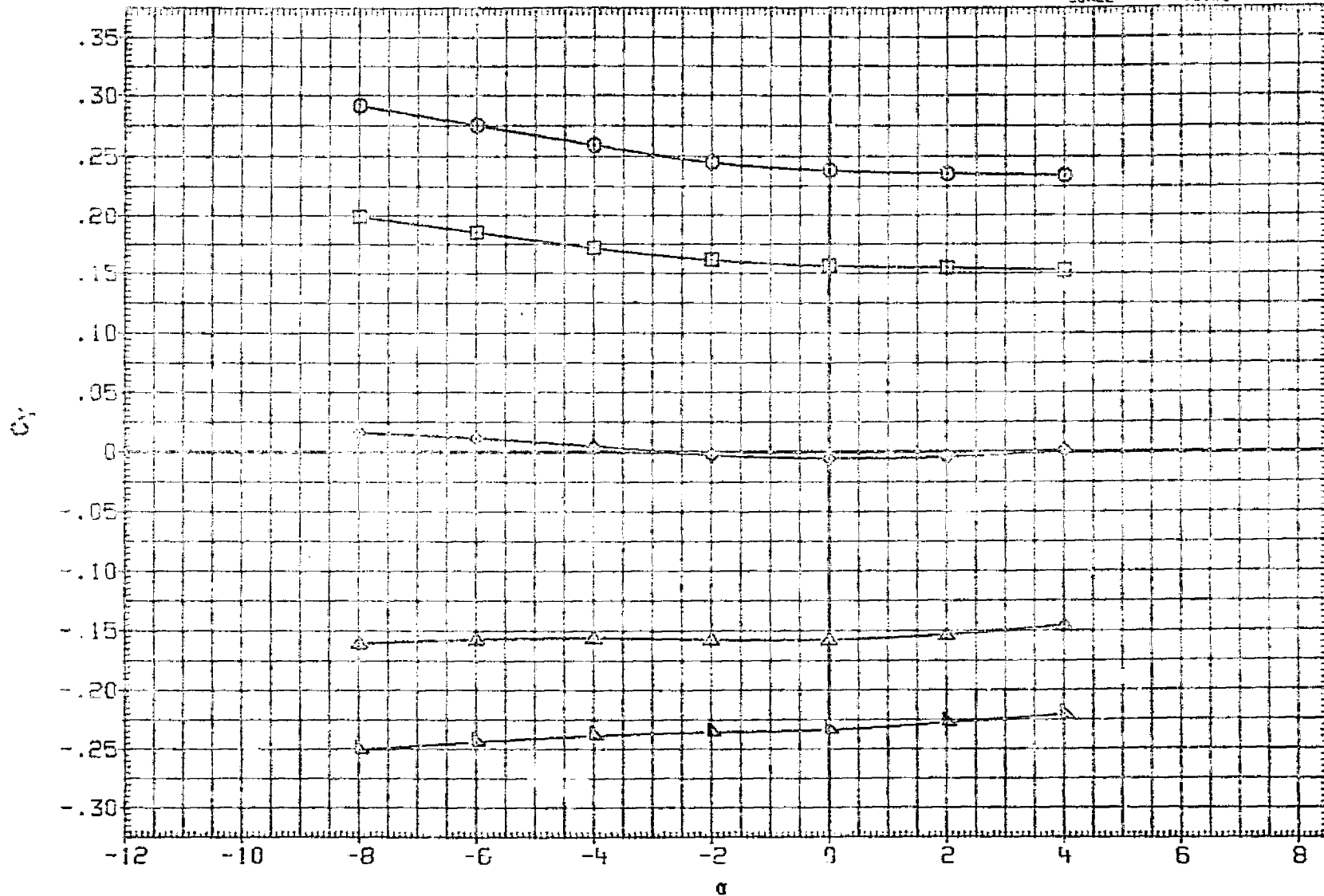


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

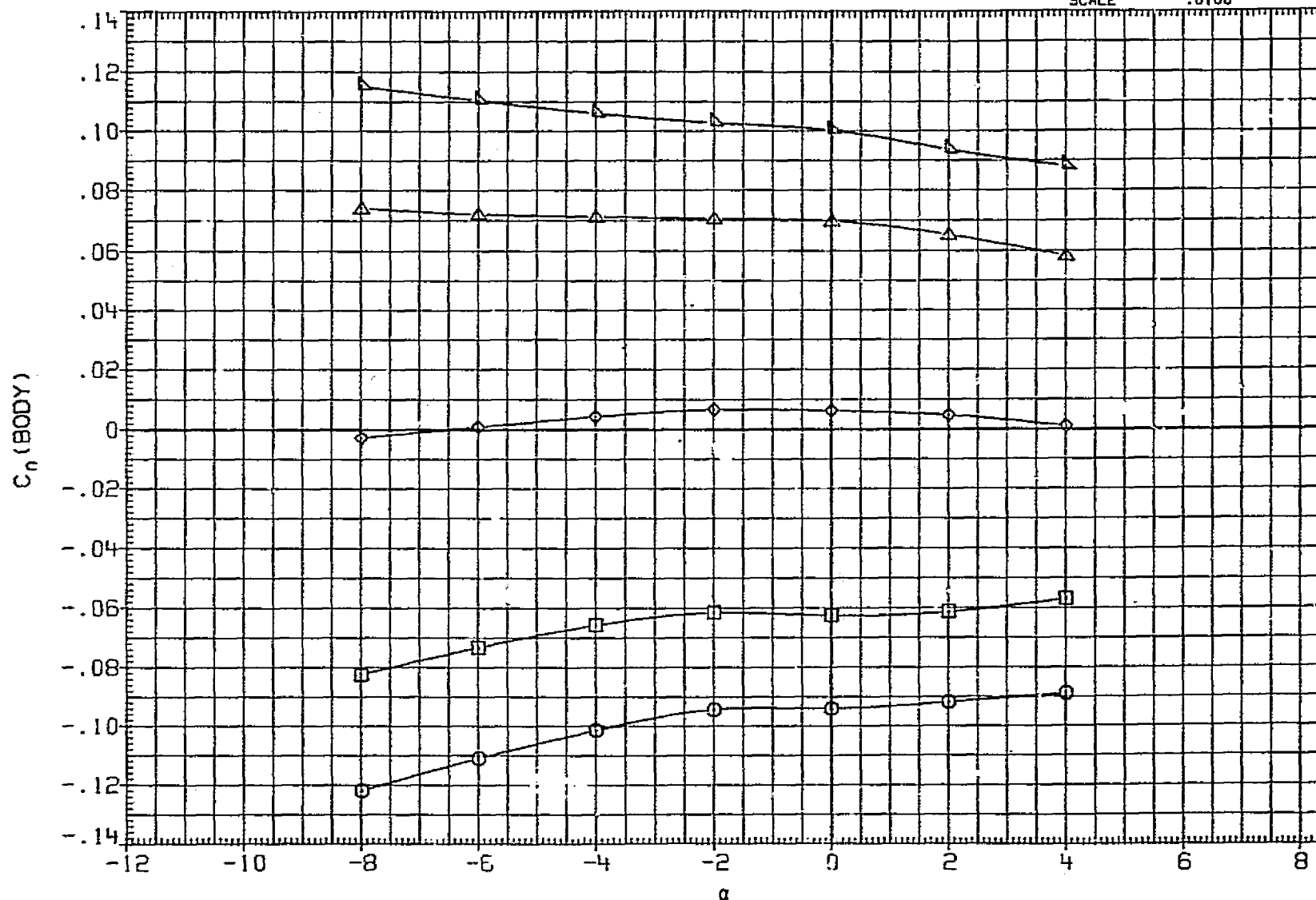


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	□ LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50. FT.
MJJA58	□ LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇ LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△ LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	△ LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

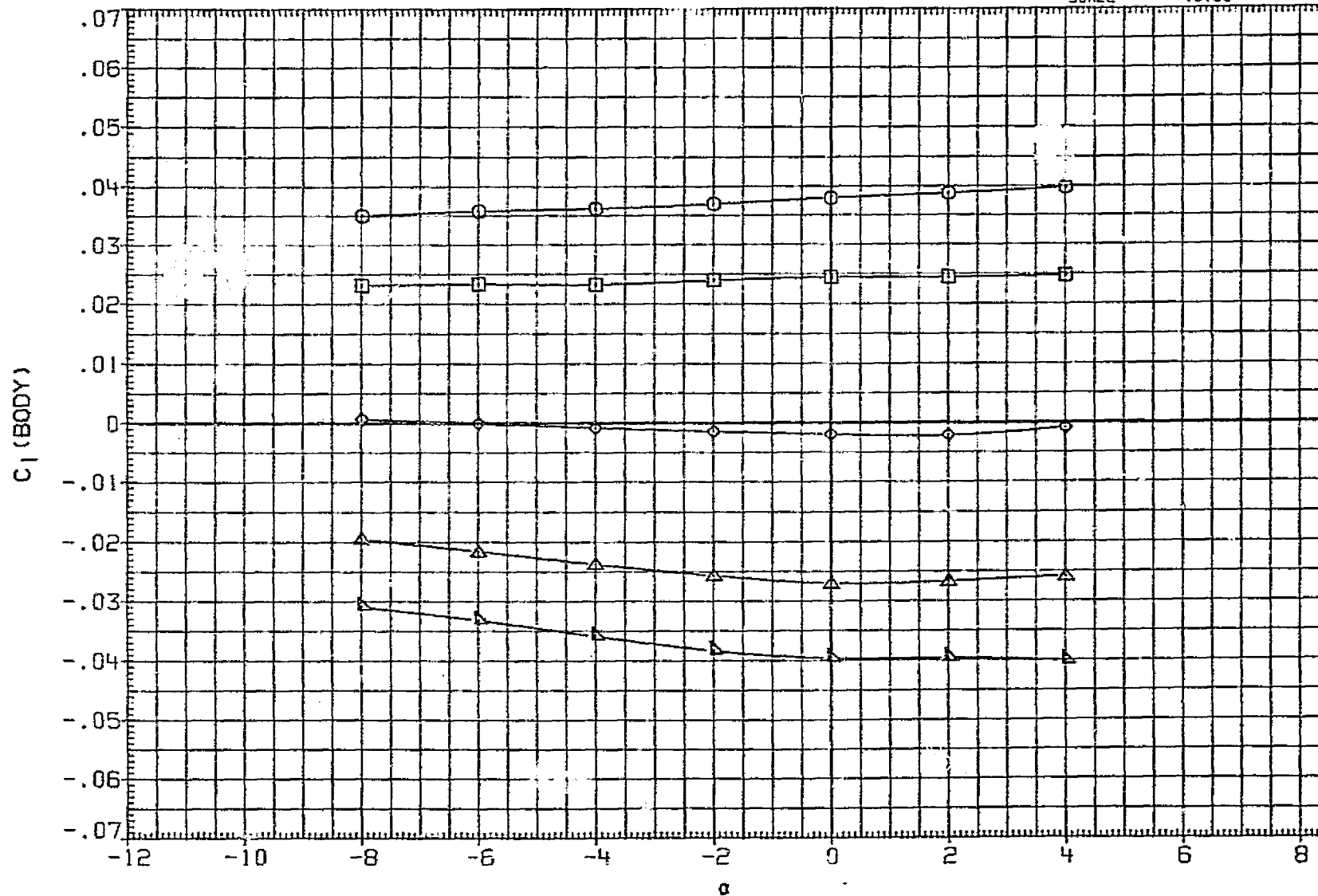


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

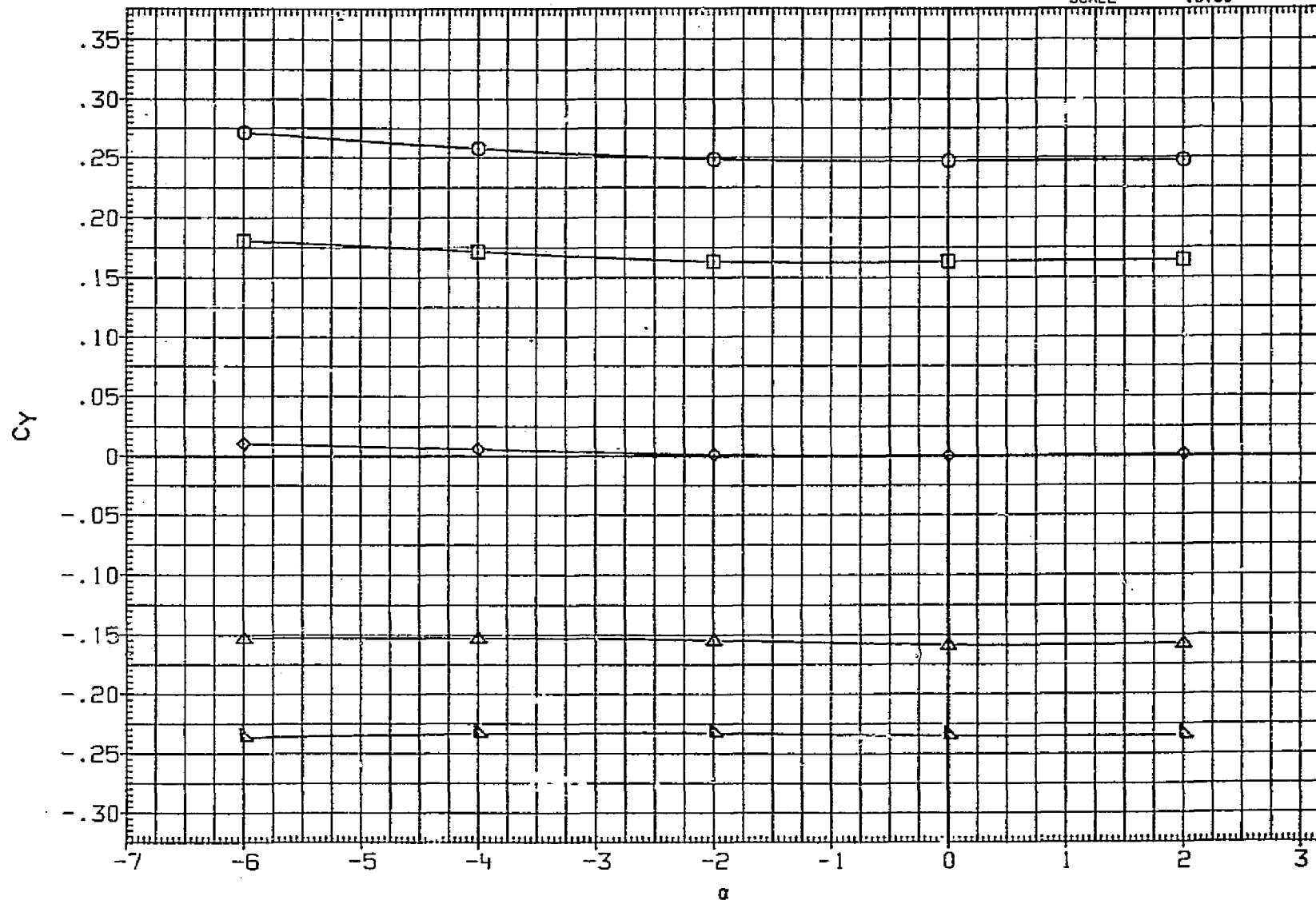


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50. FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

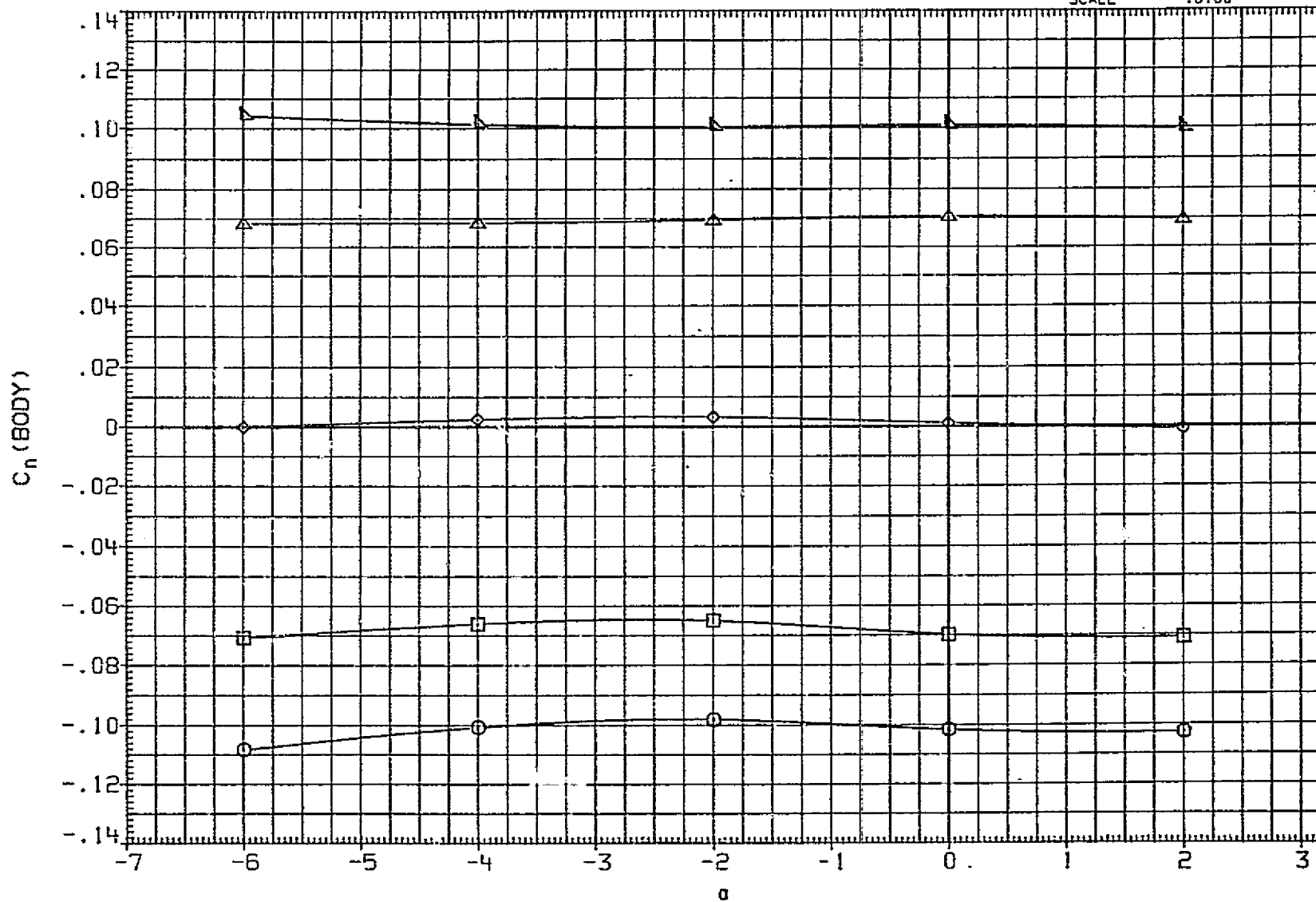


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJA58	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

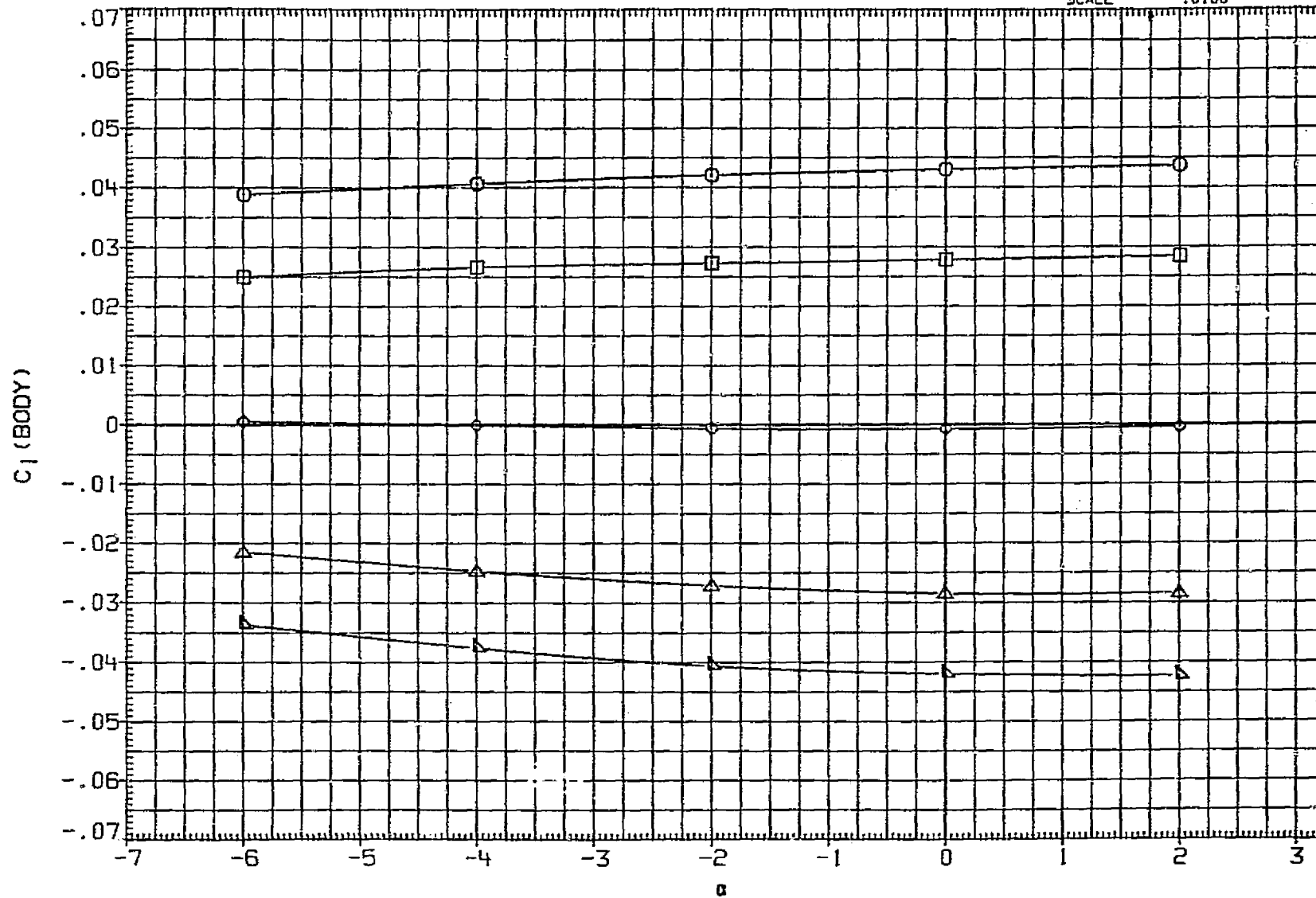


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET SYM/SOL

CONFIGURATION

BETA	ELV-LI	ELV-LD	ELV-RI	ELV-RO
-6.000	8.000	9.000	8.000	9.000
-4.000	8.000	9.000	8.000	9.000
.000	8.000	9.000	8.000	9.000
4.000	8.000	9.000	8.000	9.000
6.000	8.000	9.000	8.000	9.000

REFERENCE INFORMATION

SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130

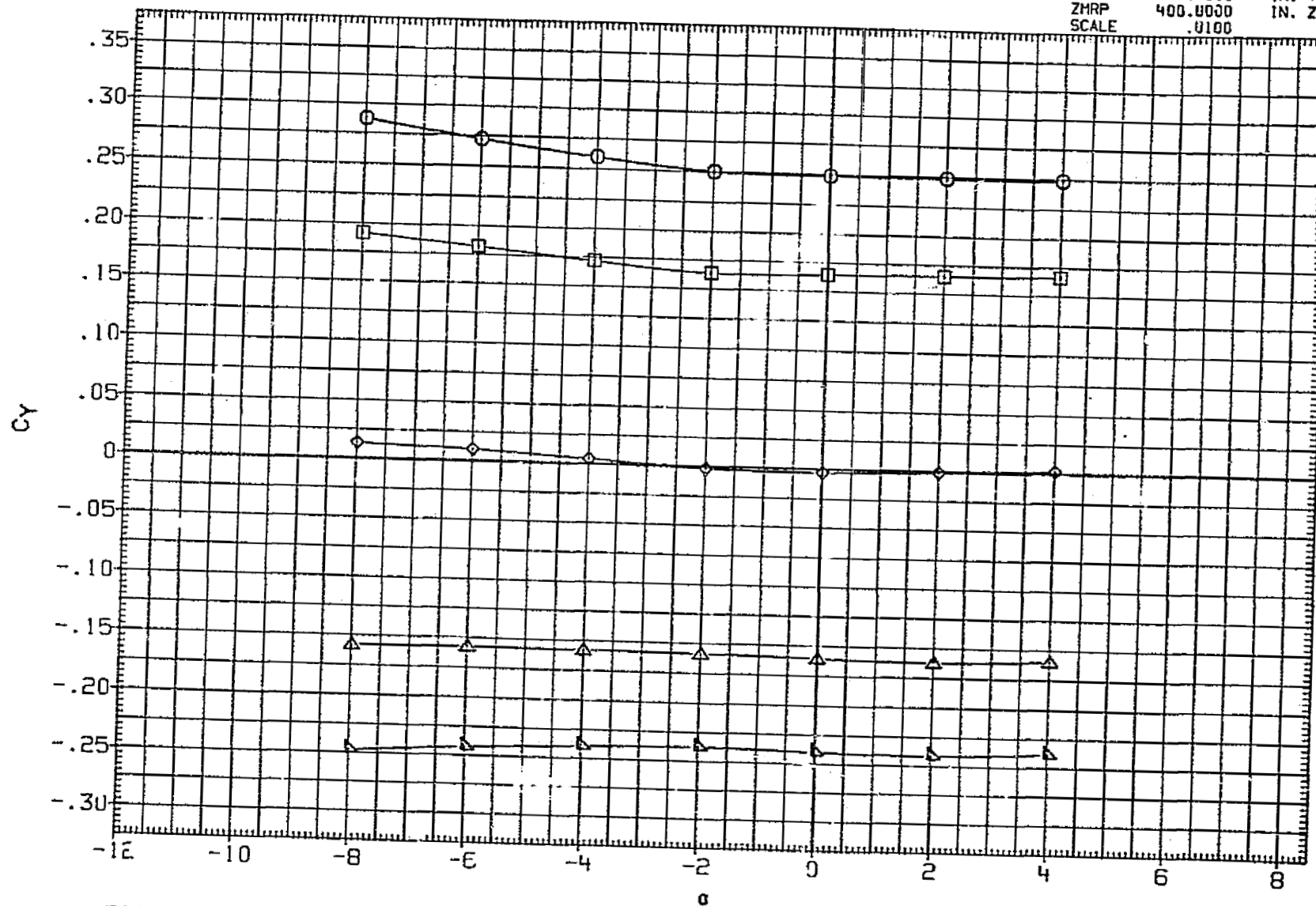


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA57	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF 2690.0000 SQ.FT.
MJJA58	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF 1290.3000 INCHES
MJJA59	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF 1290.3000 INCHES
MJJA61	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP 976.0000 IN. XT
MJJA62	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP .0800 IN. YT ZMRP 400.0000 IN. ZT SCALE .0100

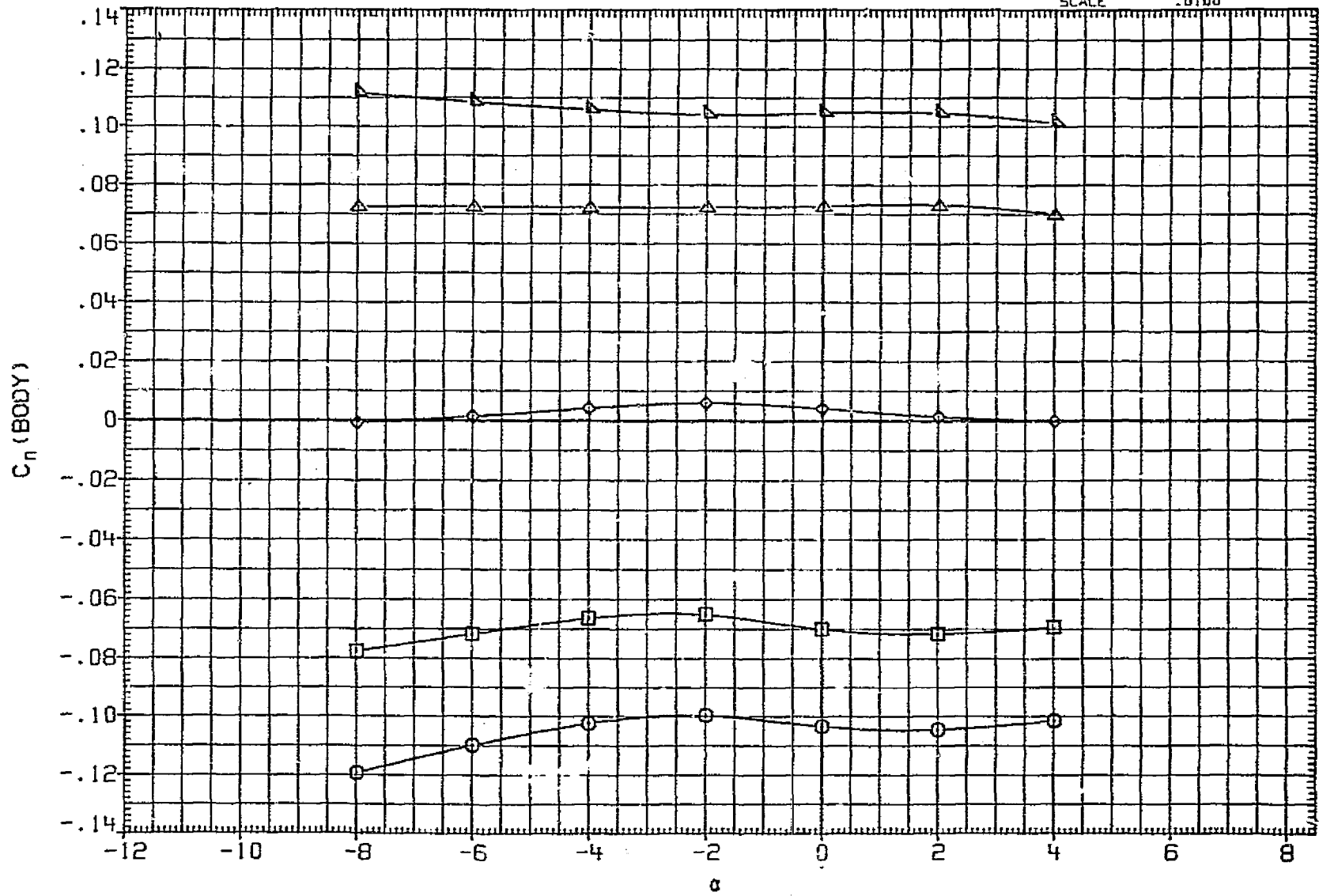


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RD	REFERENCE INFORMATION		
MJJA87	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2830.0000	60. FT.
MJJA88	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1230.3000	INCHES
MJJA89	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	EREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	975.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

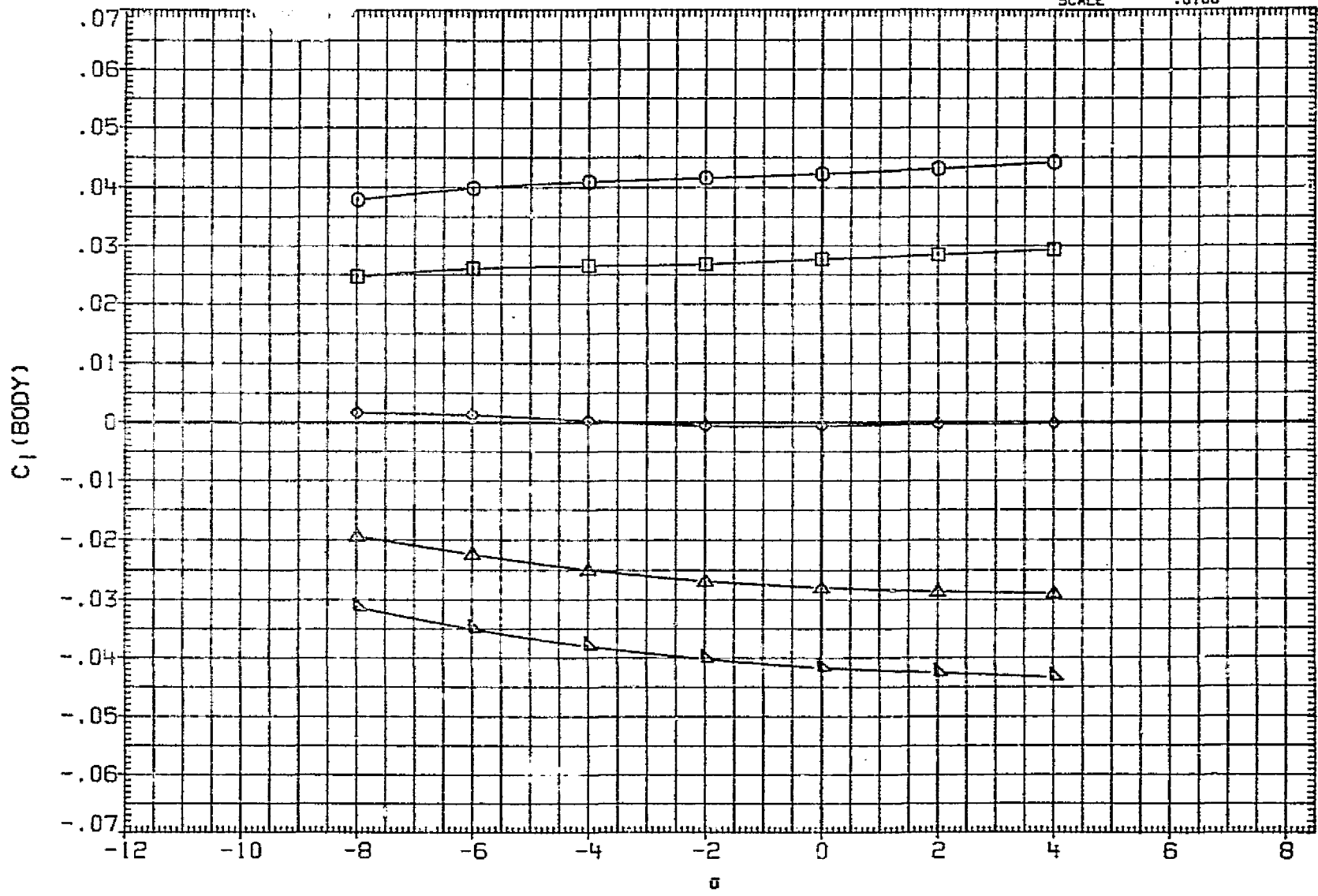


FIG. 5 LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1293.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

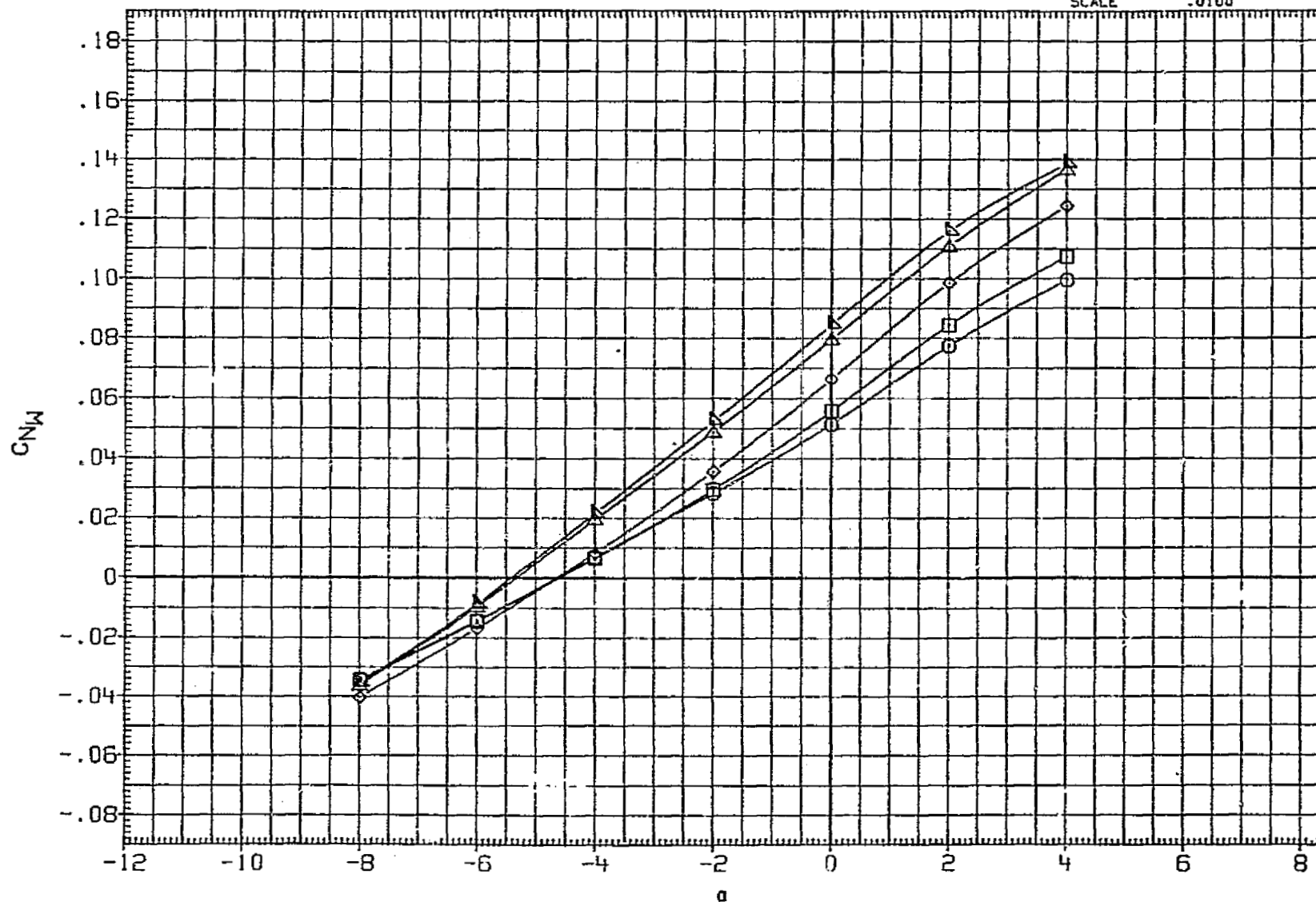


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2890.0000	50.87
MJJA03	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

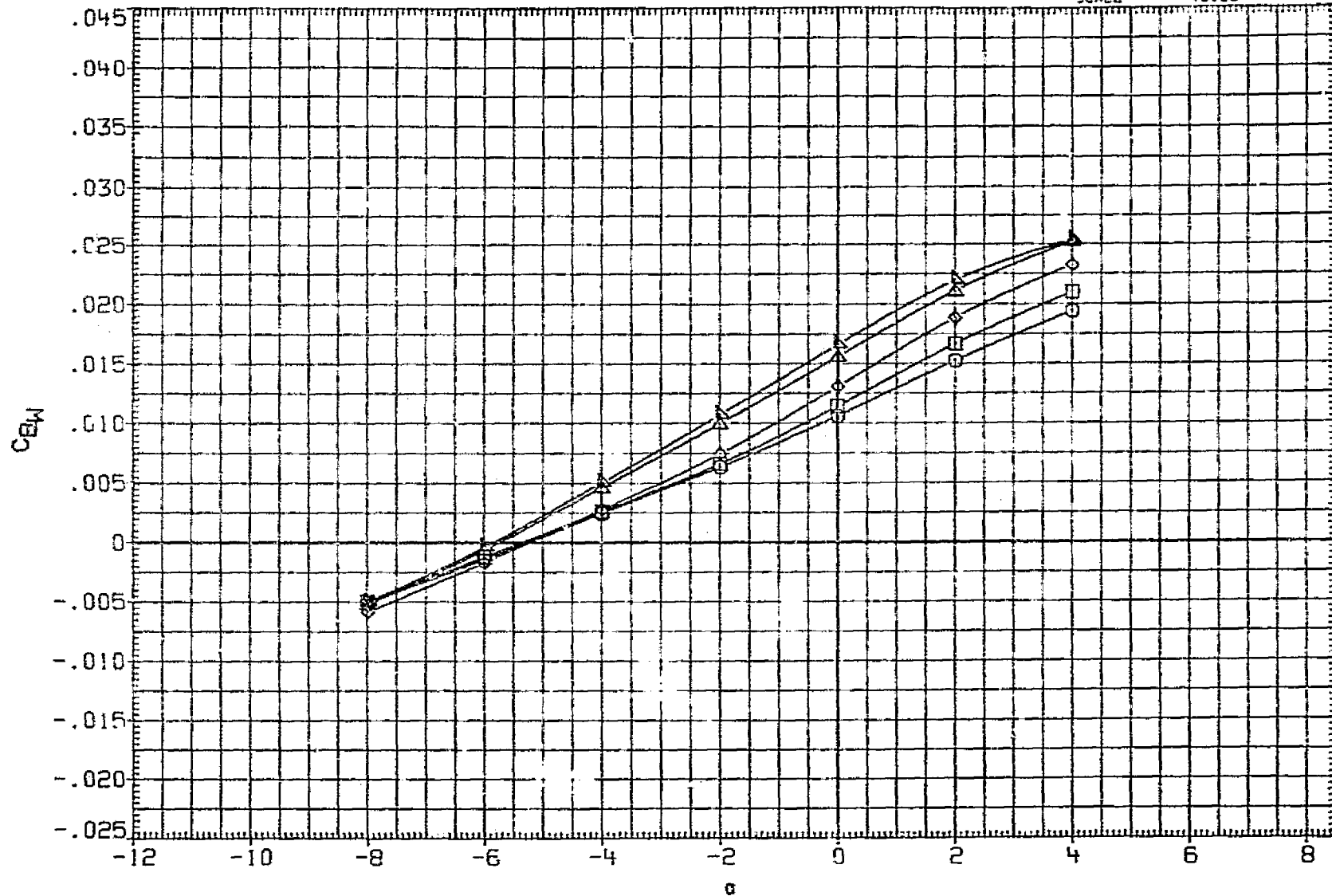


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	10.000	9.000	10.000	9.000	SREF	269(.0000	SO.FT.
MJJA03	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

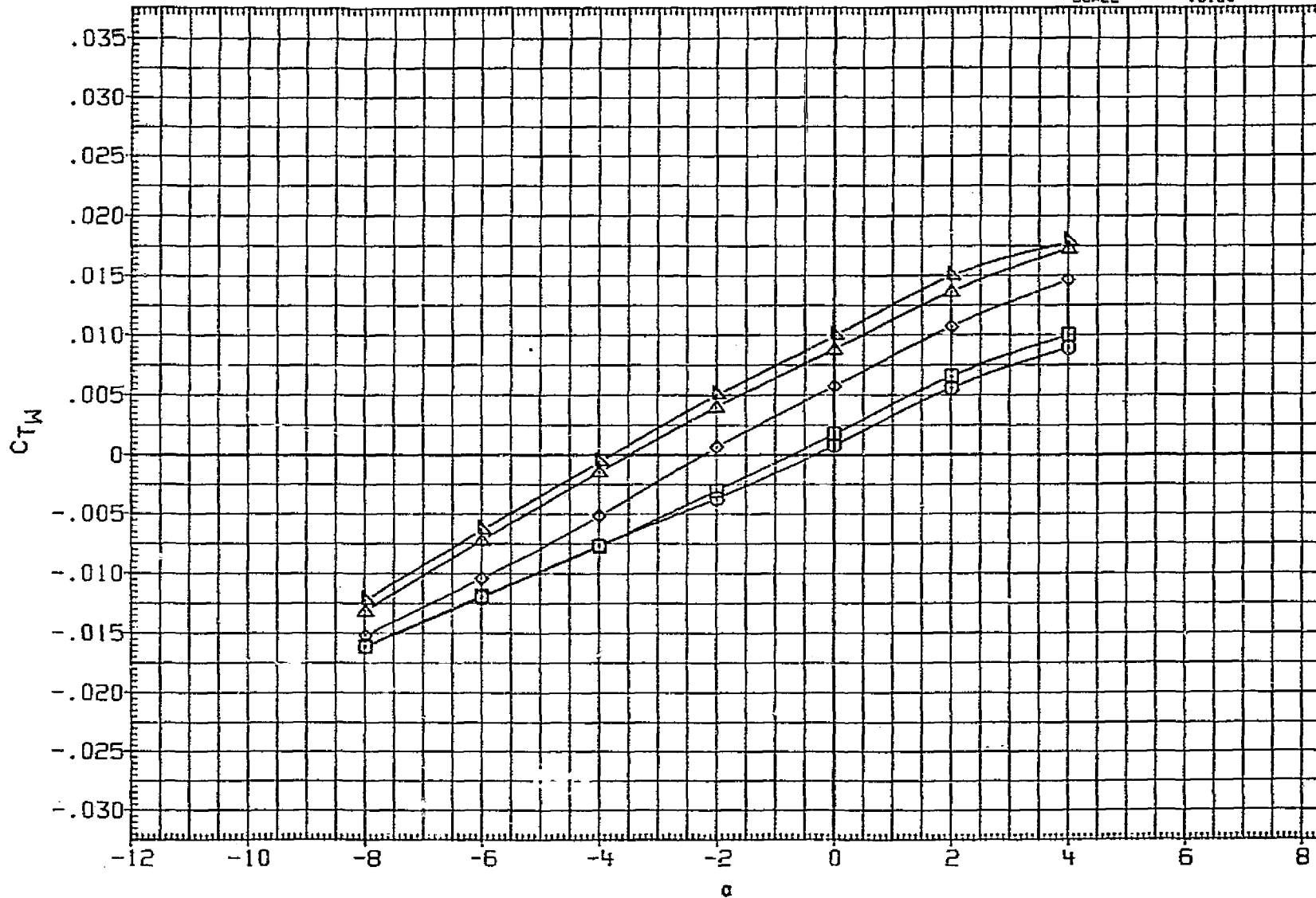


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	3539.0000	SO. FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1200.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1200.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	576.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

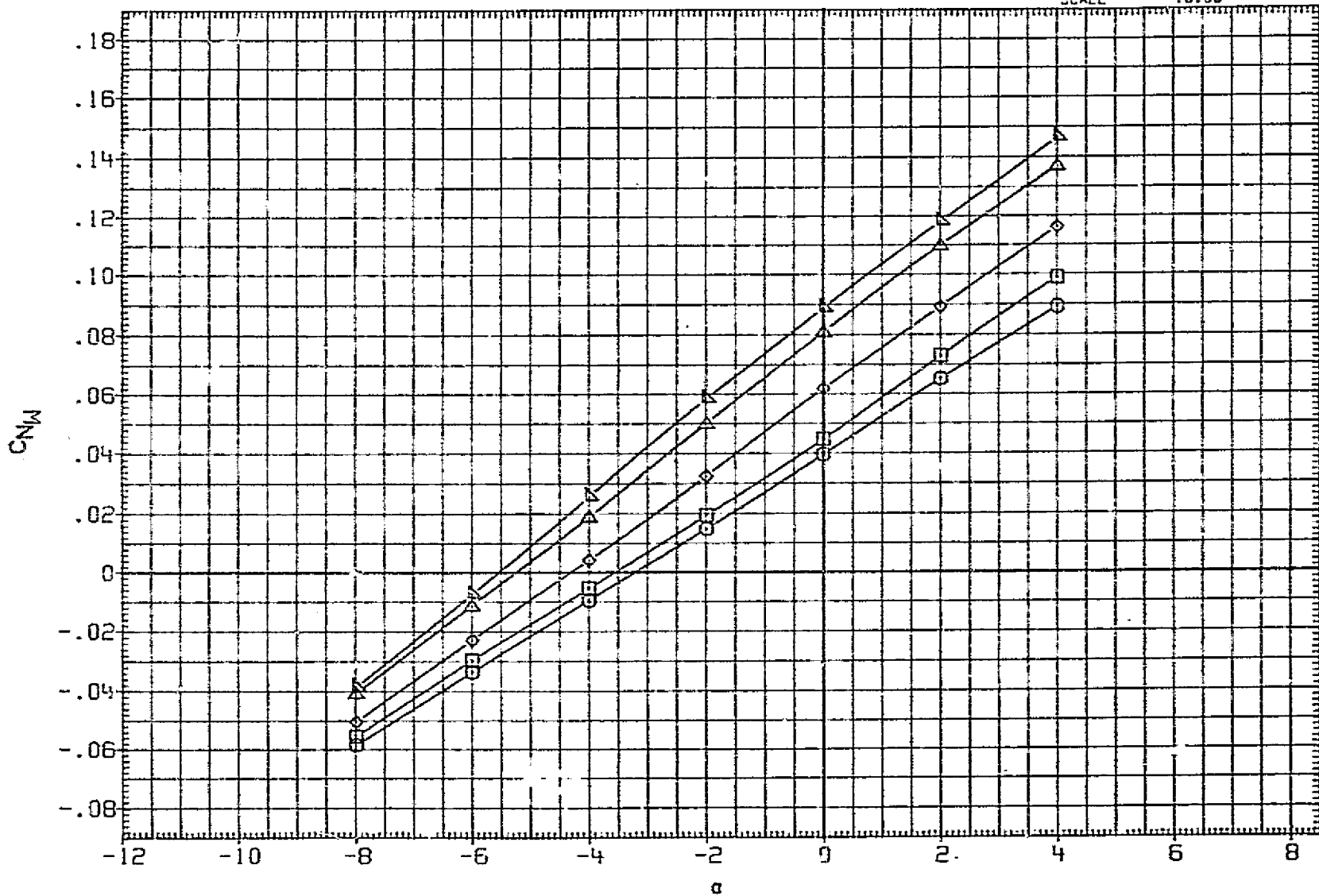


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJA03	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	△	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	◇	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

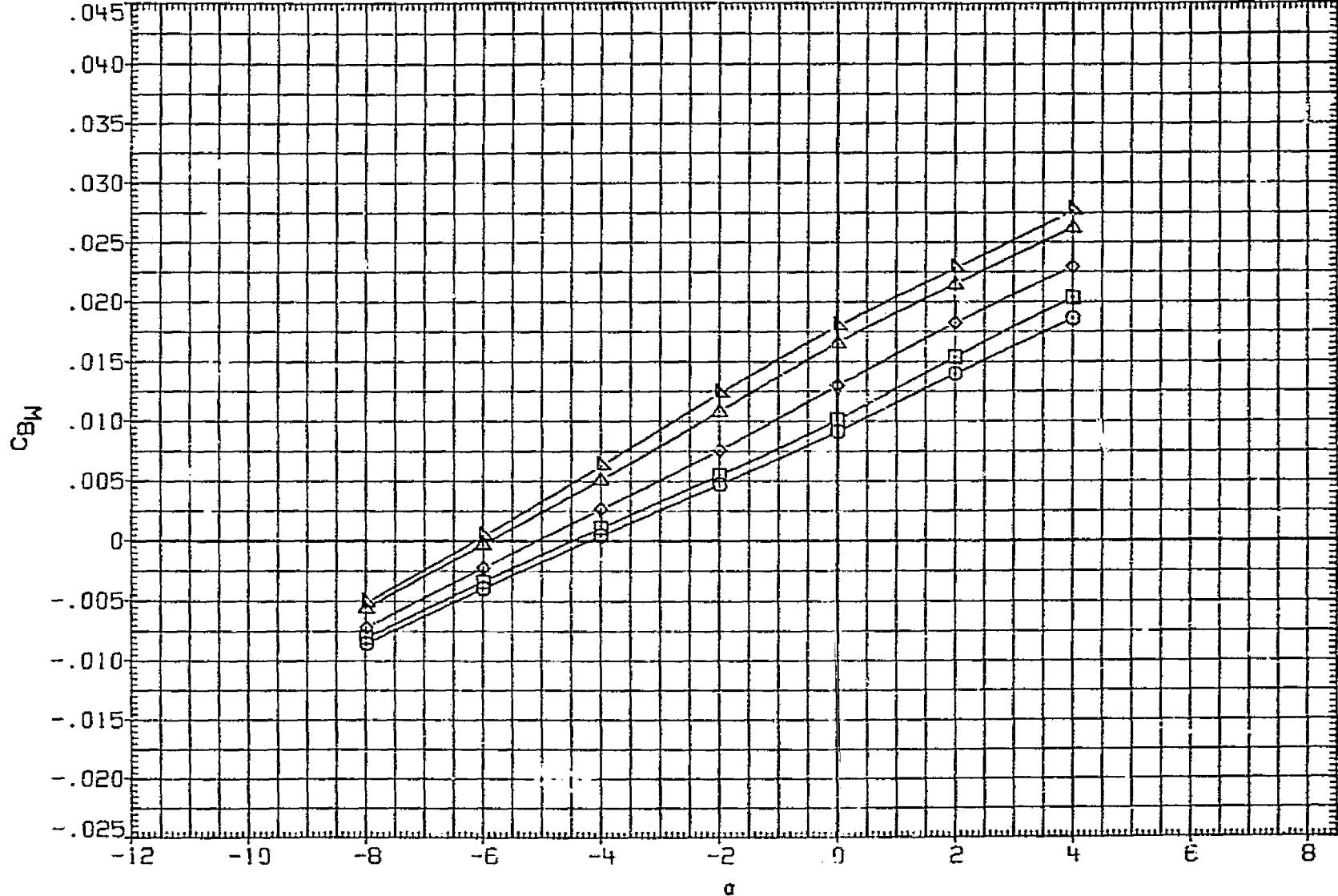


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130
MJJA06	△	LARC 8FT TPT 749 (1A93) OTSAT130

BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0
-6.000	10.000	9.000	10.000	9.000
-4.000	10.200	9.000	10.000	9.000
.000	10.000	9.000	10.000	9.000
4.000	10.000	9.000	10.000	9.600
6.000	10.000	9.000	10.000	9.600

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

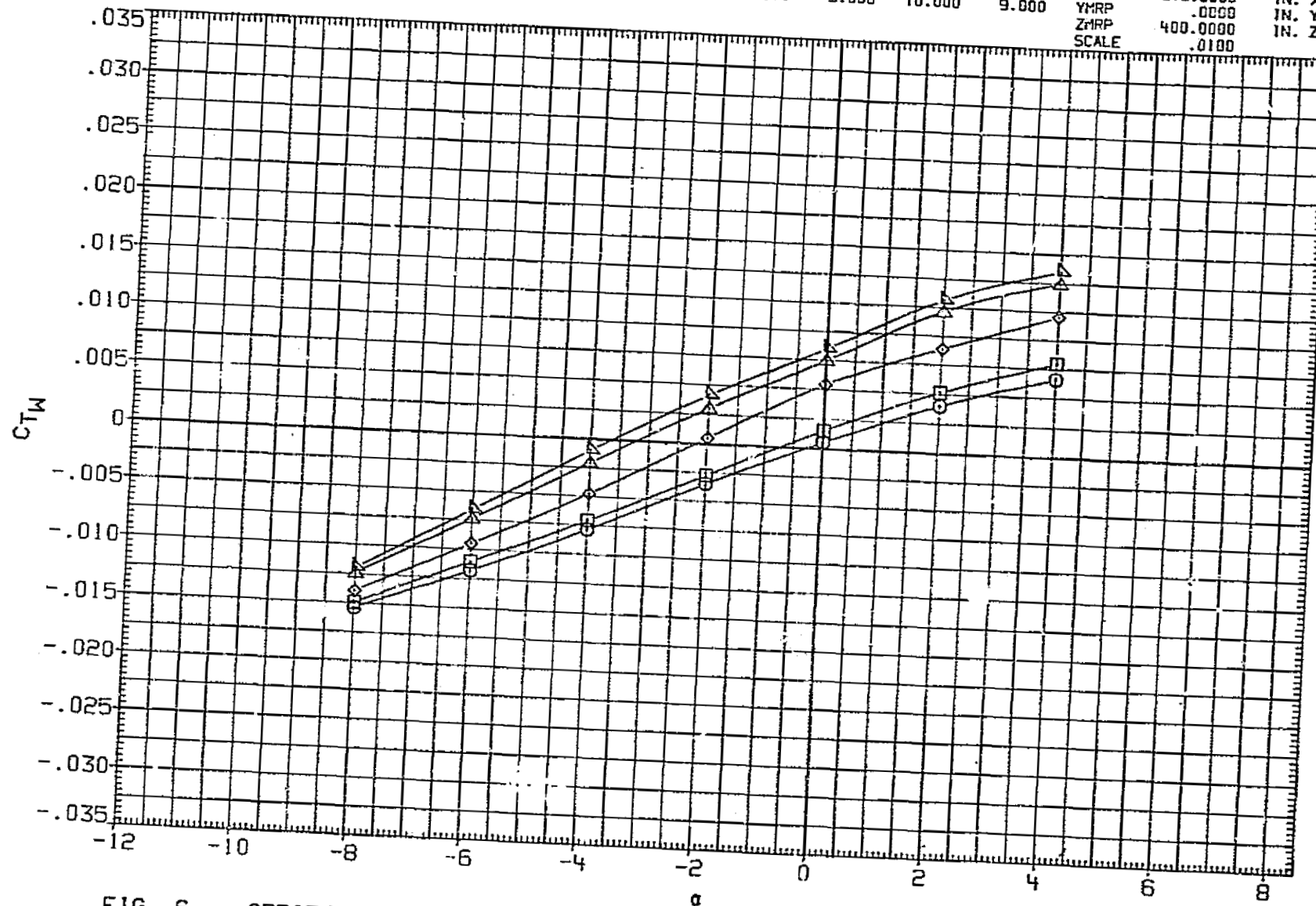


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS
(B) MACH = .98

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ.FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

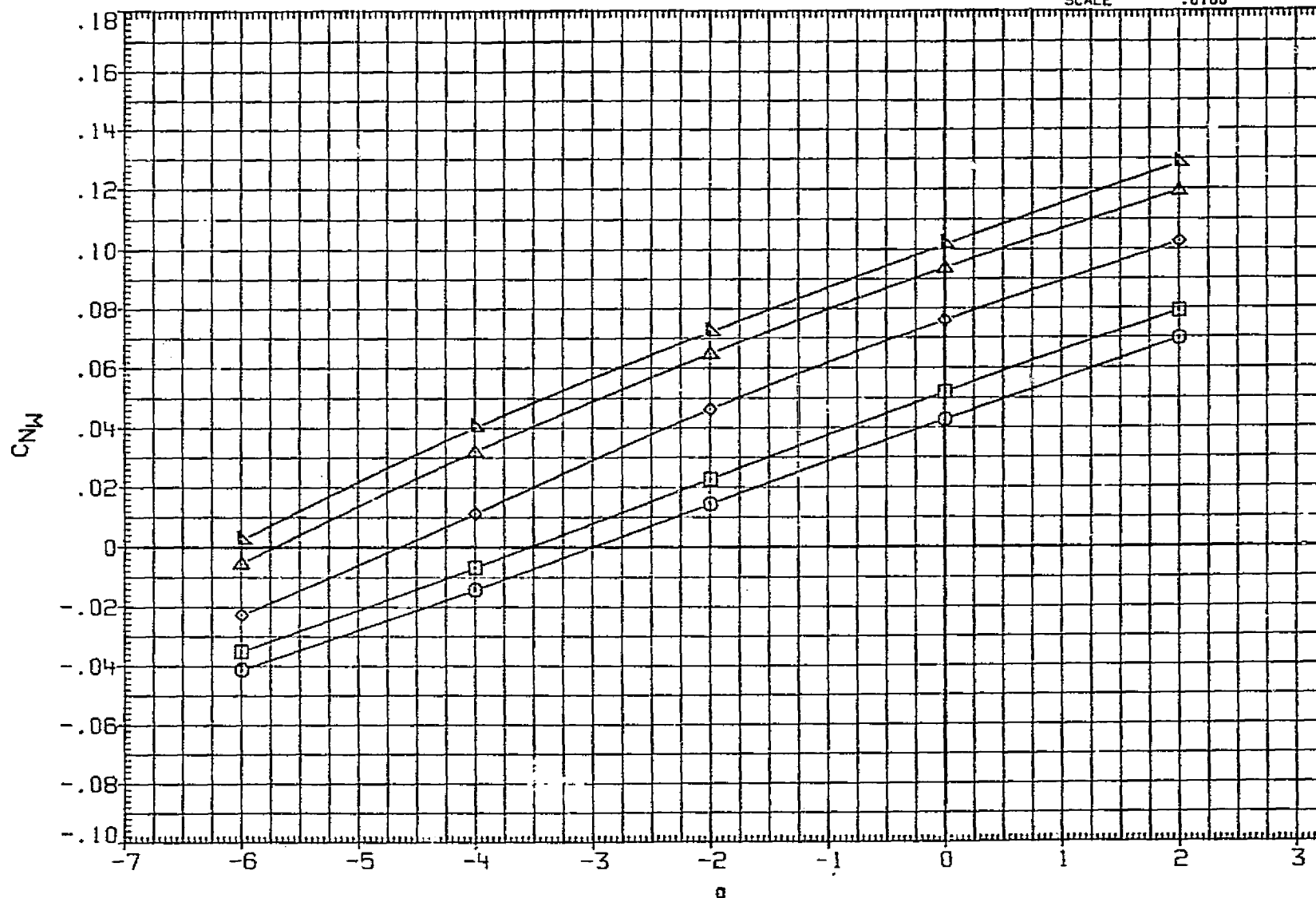


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ.FT.
MJJA03	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

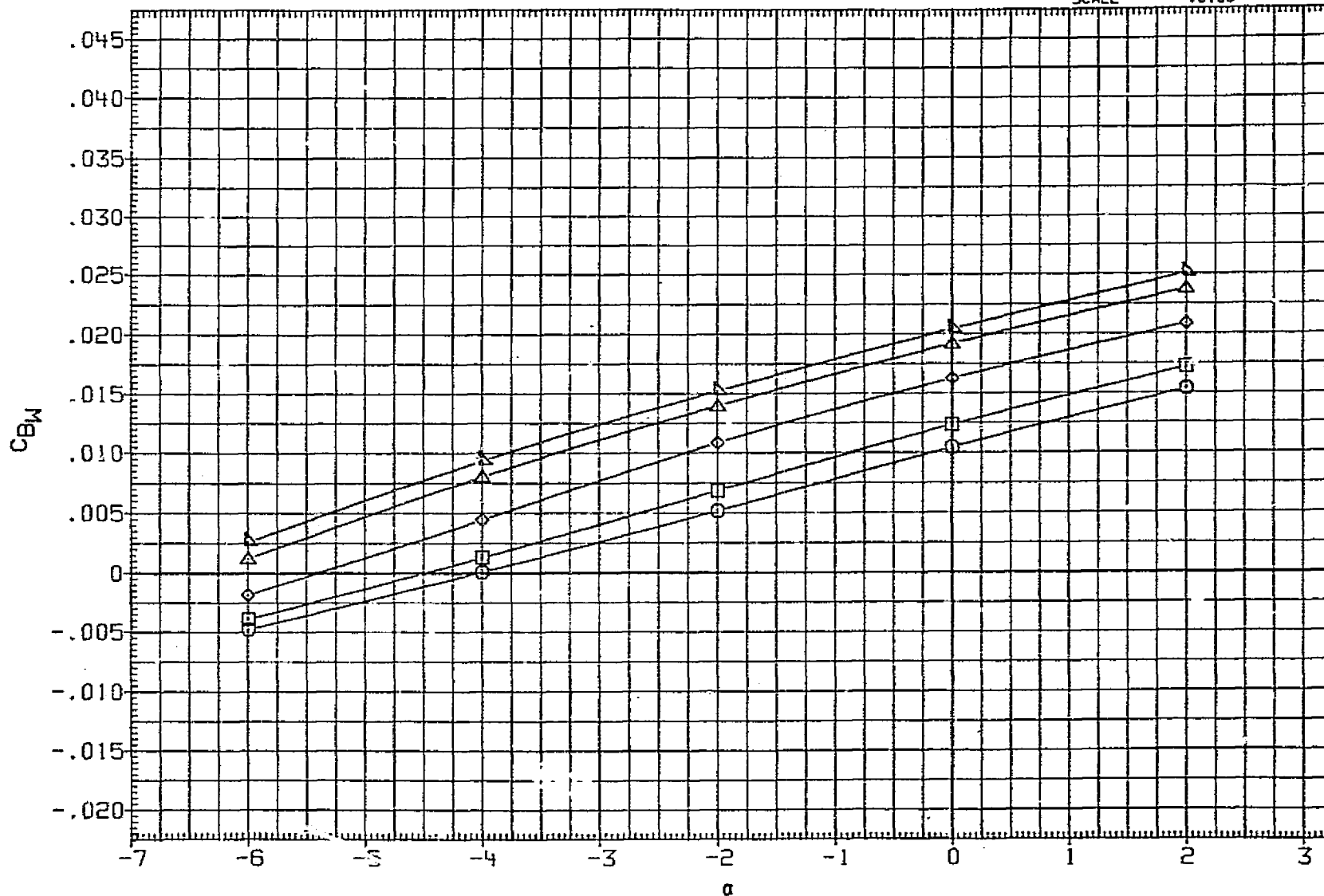


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

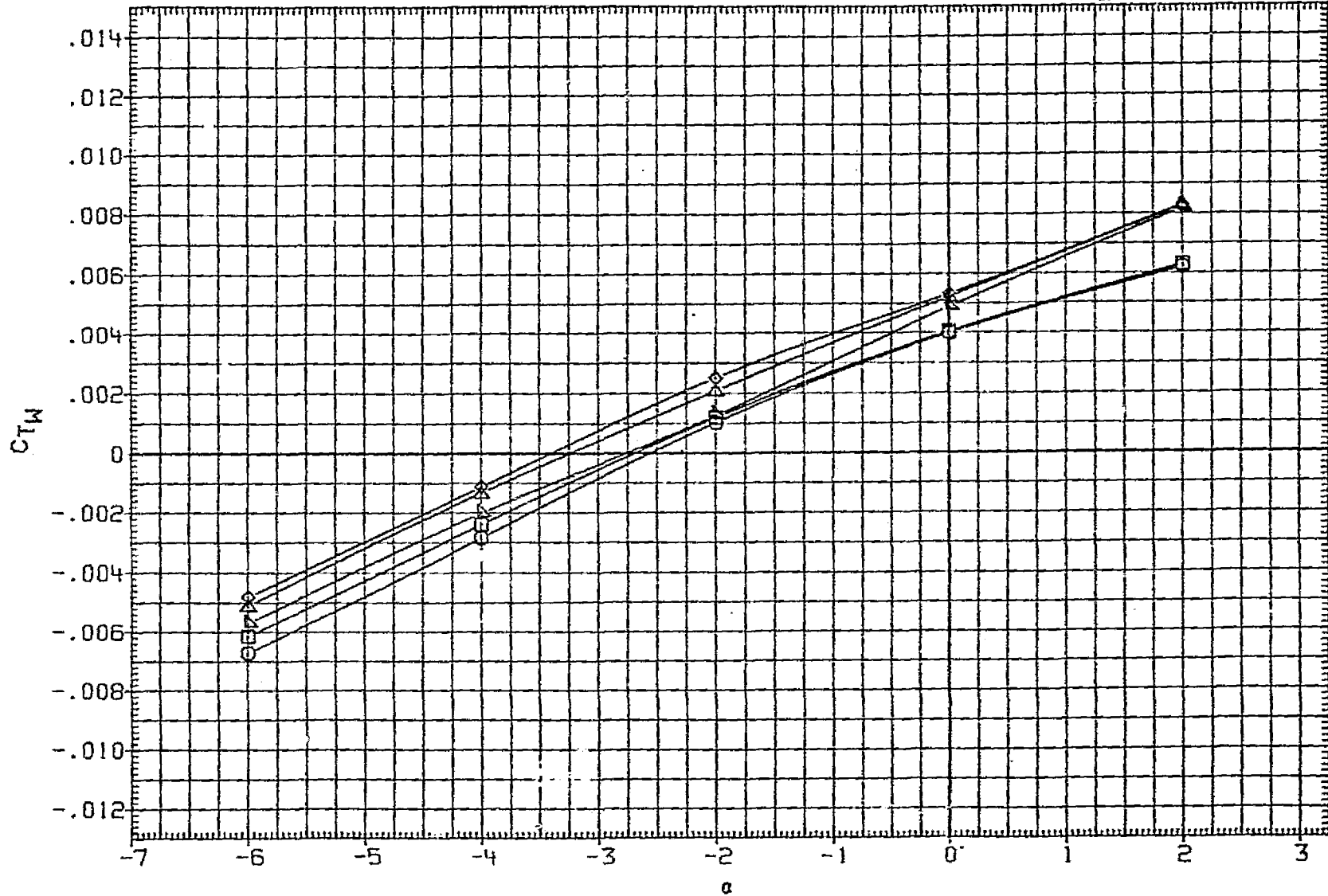


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L2	ELV-R1	ELV-R2	REFERENCE INFORMATION
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	REF 2699.0000 IN. XT
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	REF 1299.3000 IN. XT
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	REF 1299.3000 IN. XT
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP 576.0000 IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

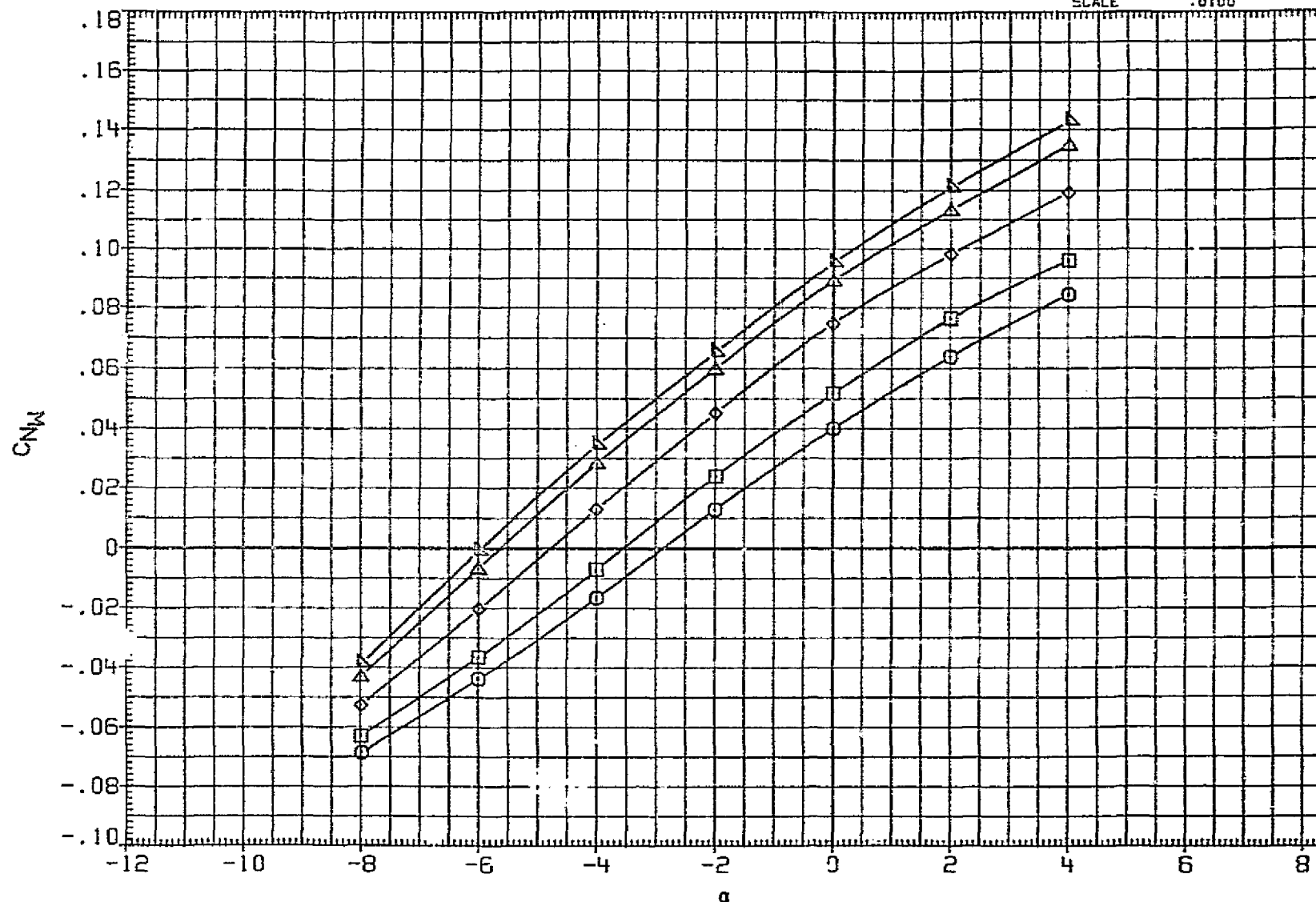


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ.FT.
MJJA03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJA04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJA05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	-0100	

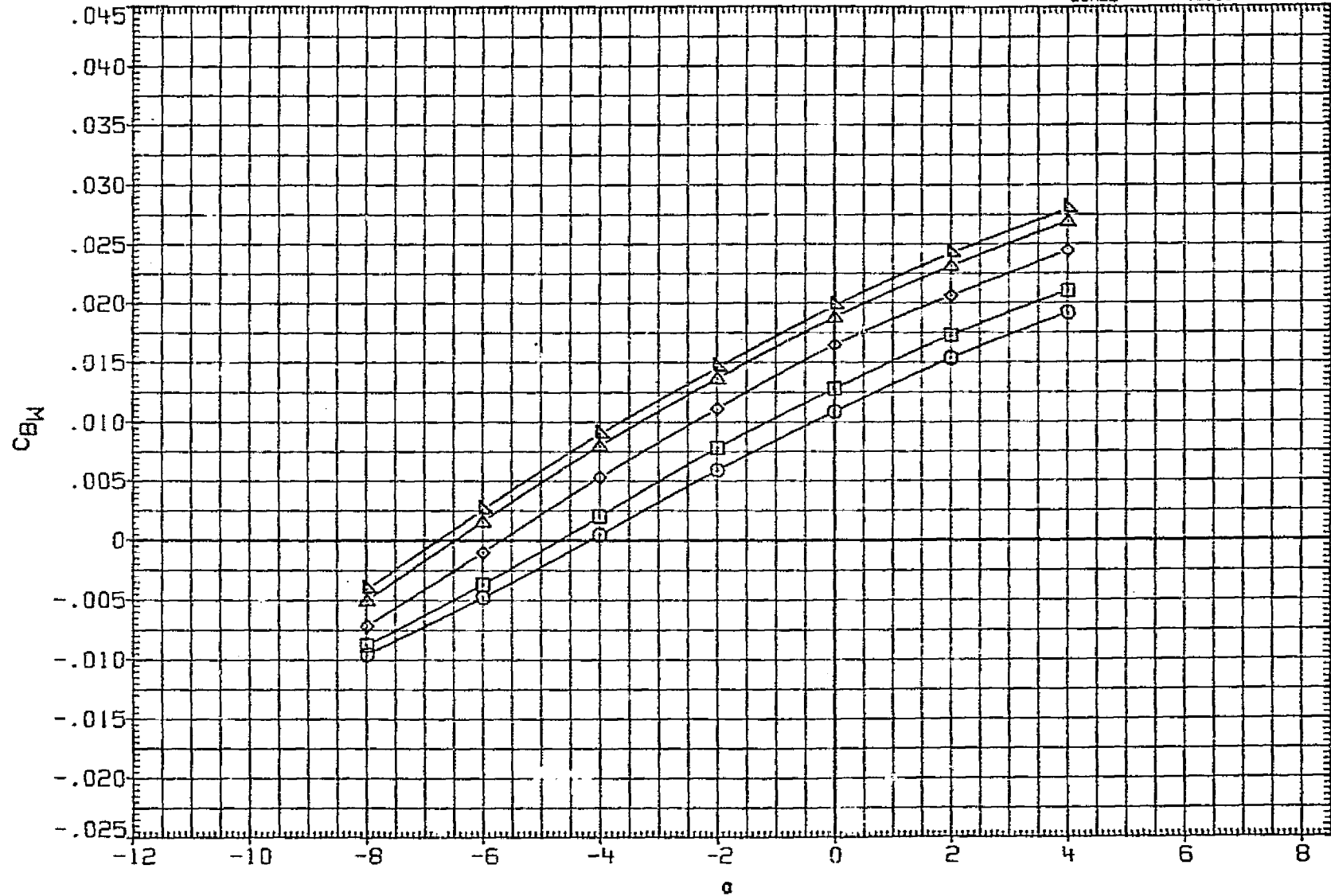


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA02	○	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	10.000	9.000	10.000	9.000	SREF	2250.0000	50. FT.
MJJA03	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1250.3000	INCHES
MJJA04	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	EREF	1250.3000	INCHES
MJJA05	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJA06	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

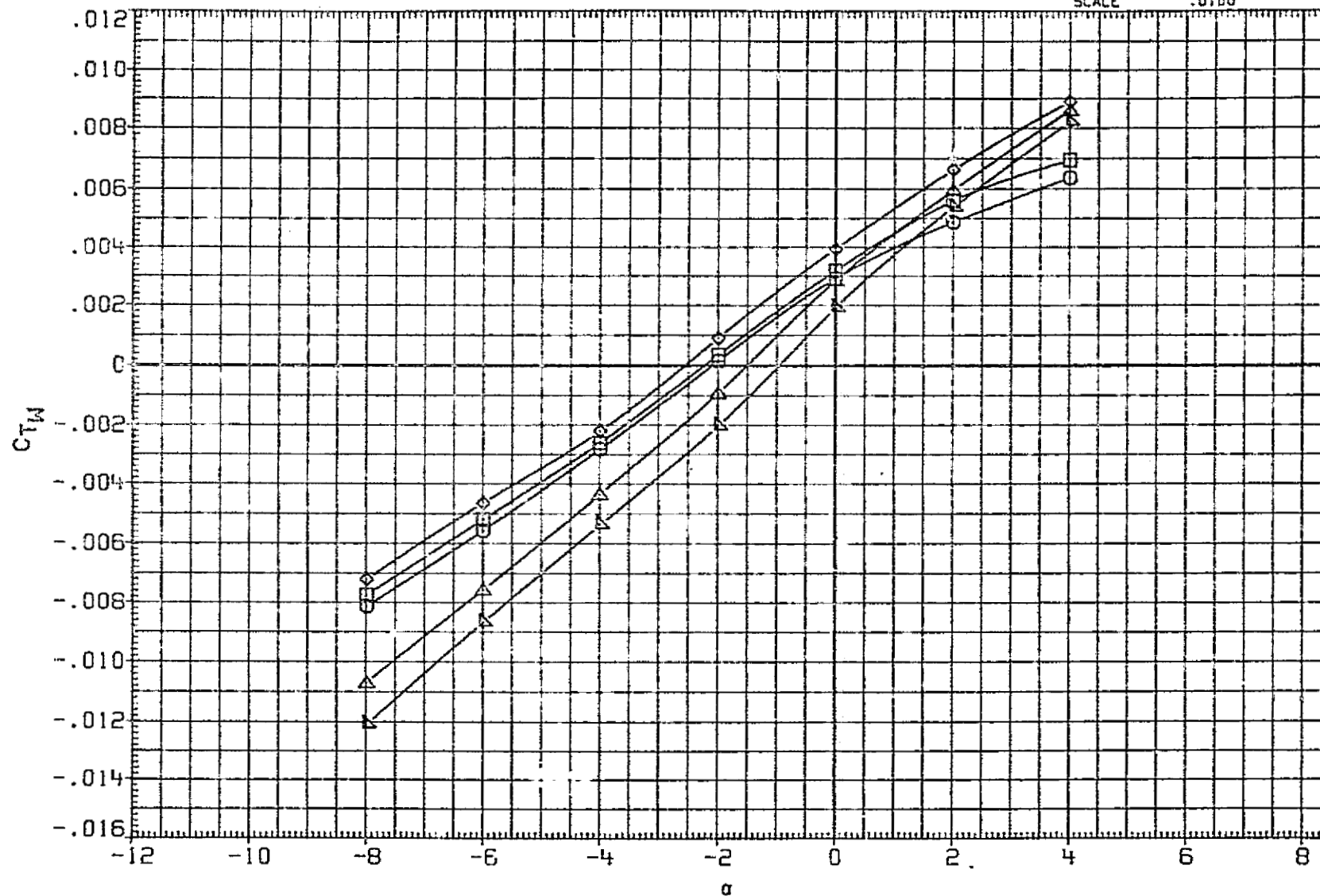


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D)MACH = 1.20

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ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. X1
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. Y1
								ZMRP	400.0000	IN. Z1
								SCALE	.0100	

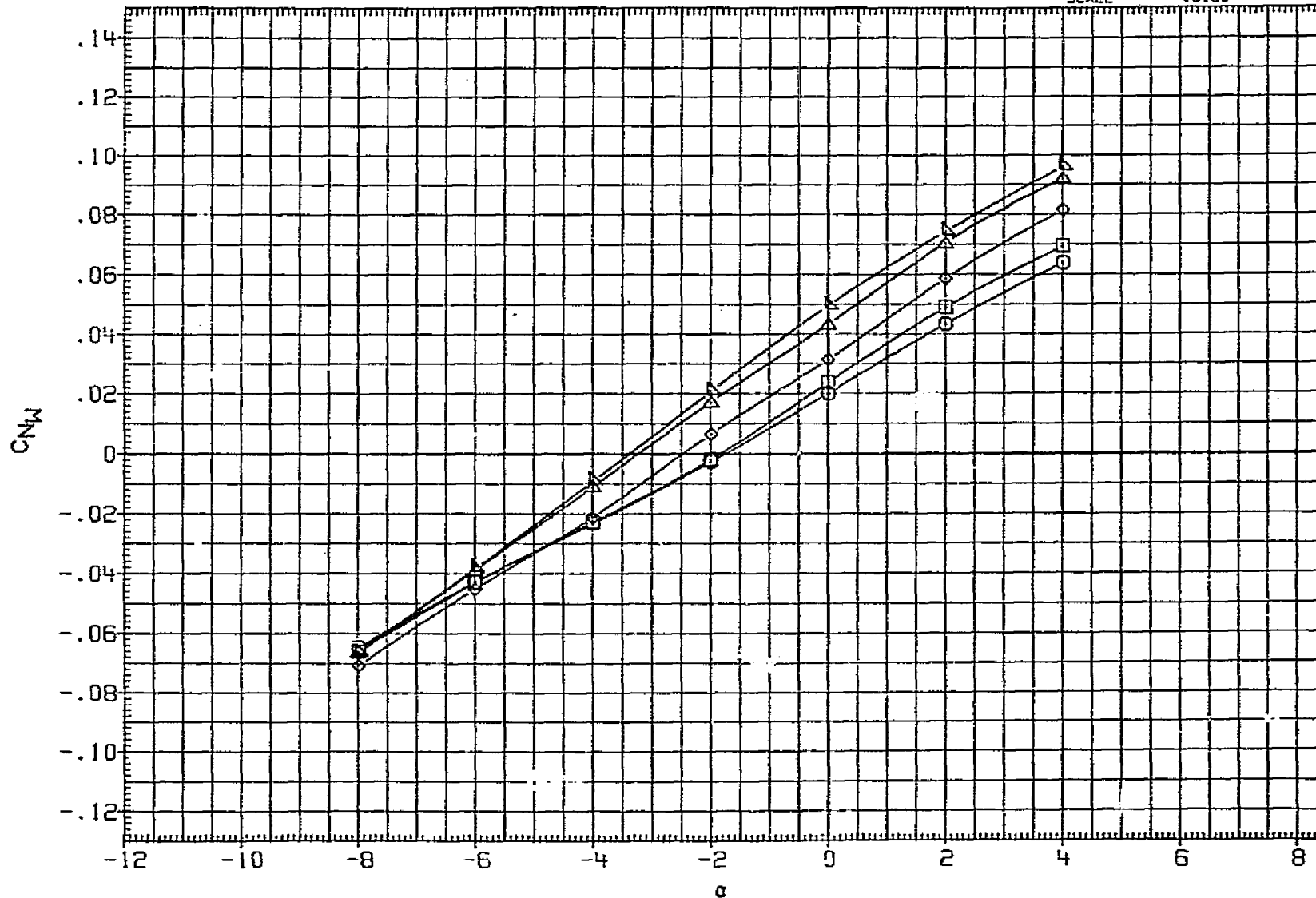


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	SREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	975.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

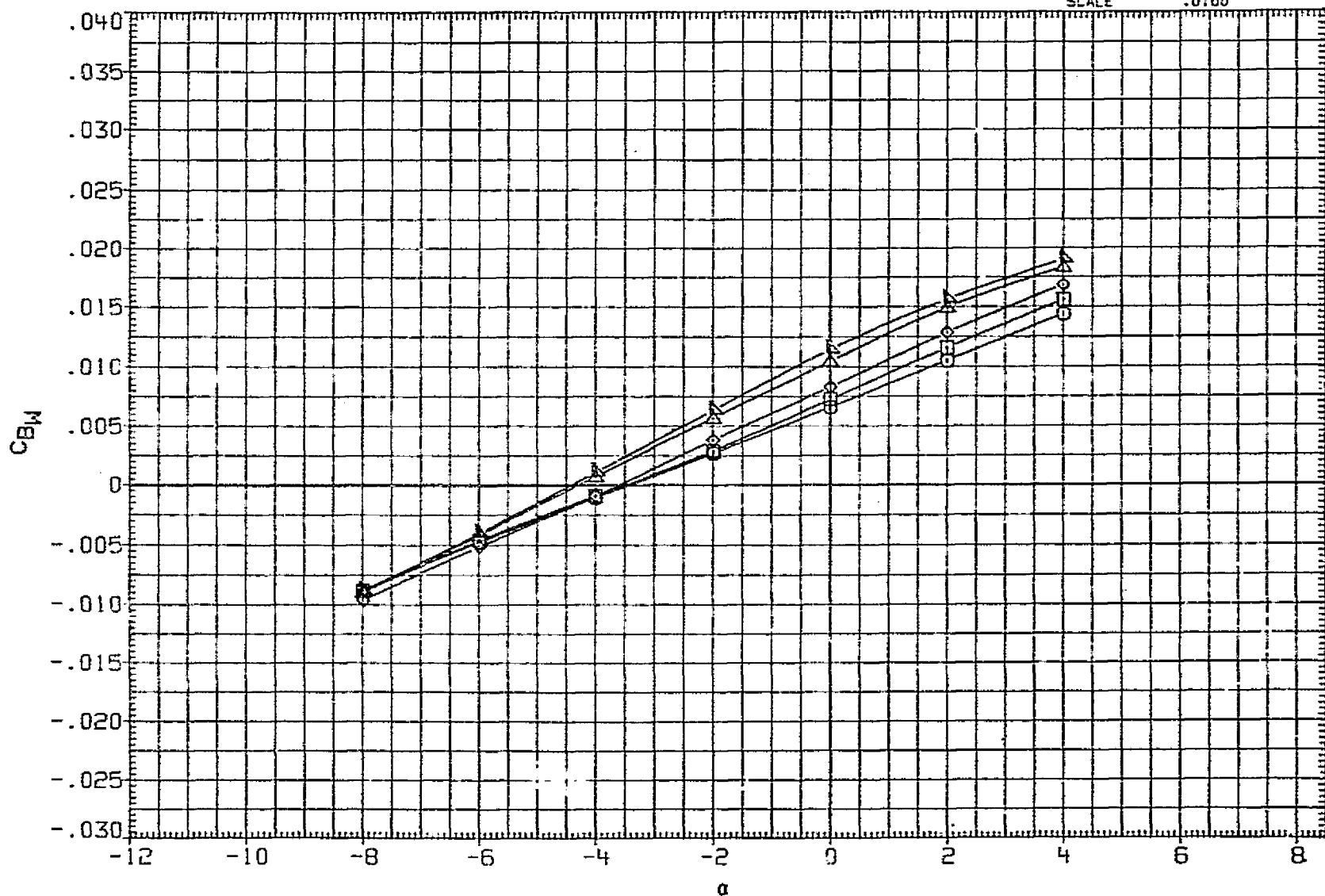


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

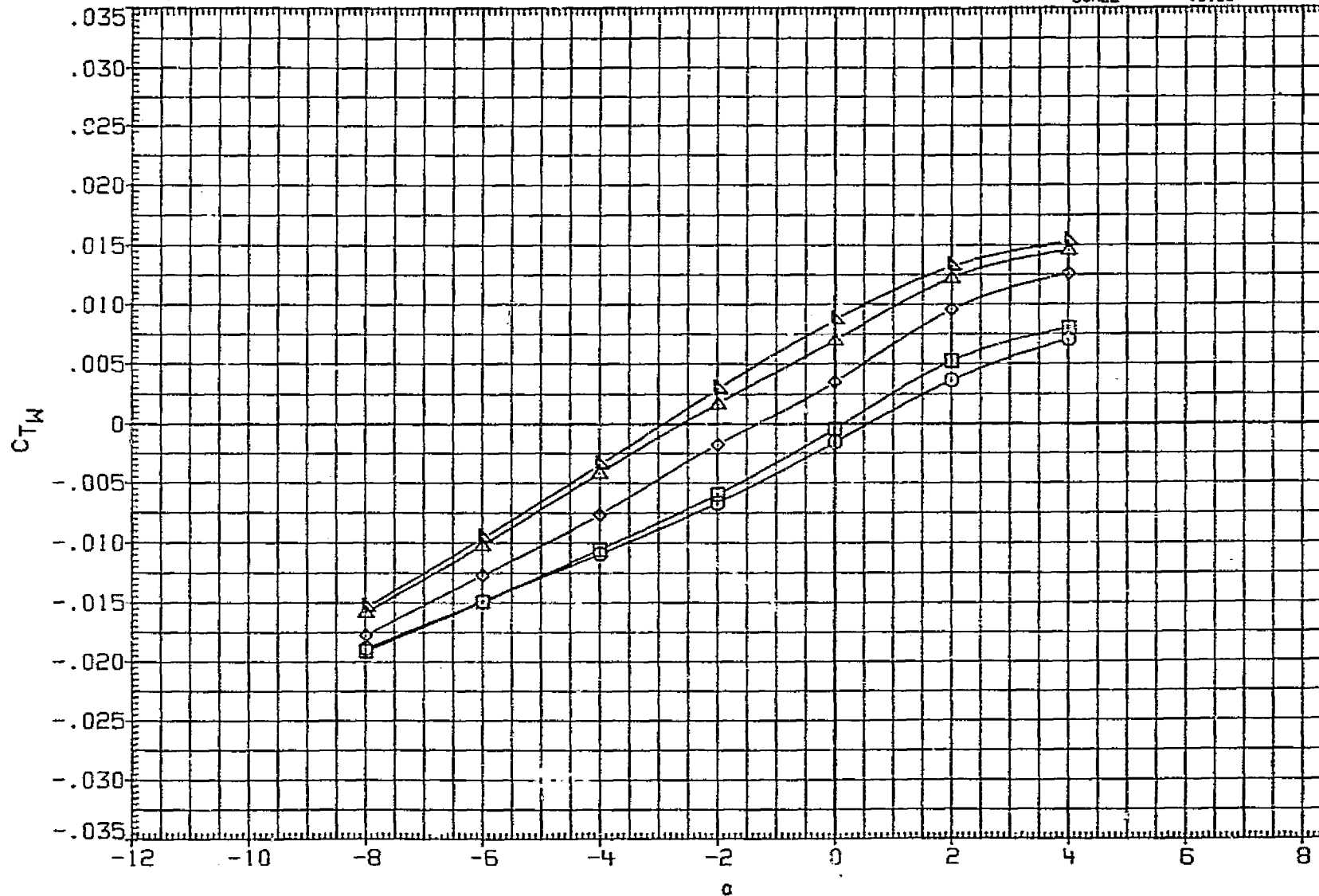


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF 2690.0000 SQ.FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF 1290.3000 INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF 1290.3000 INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP 976.0000 IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

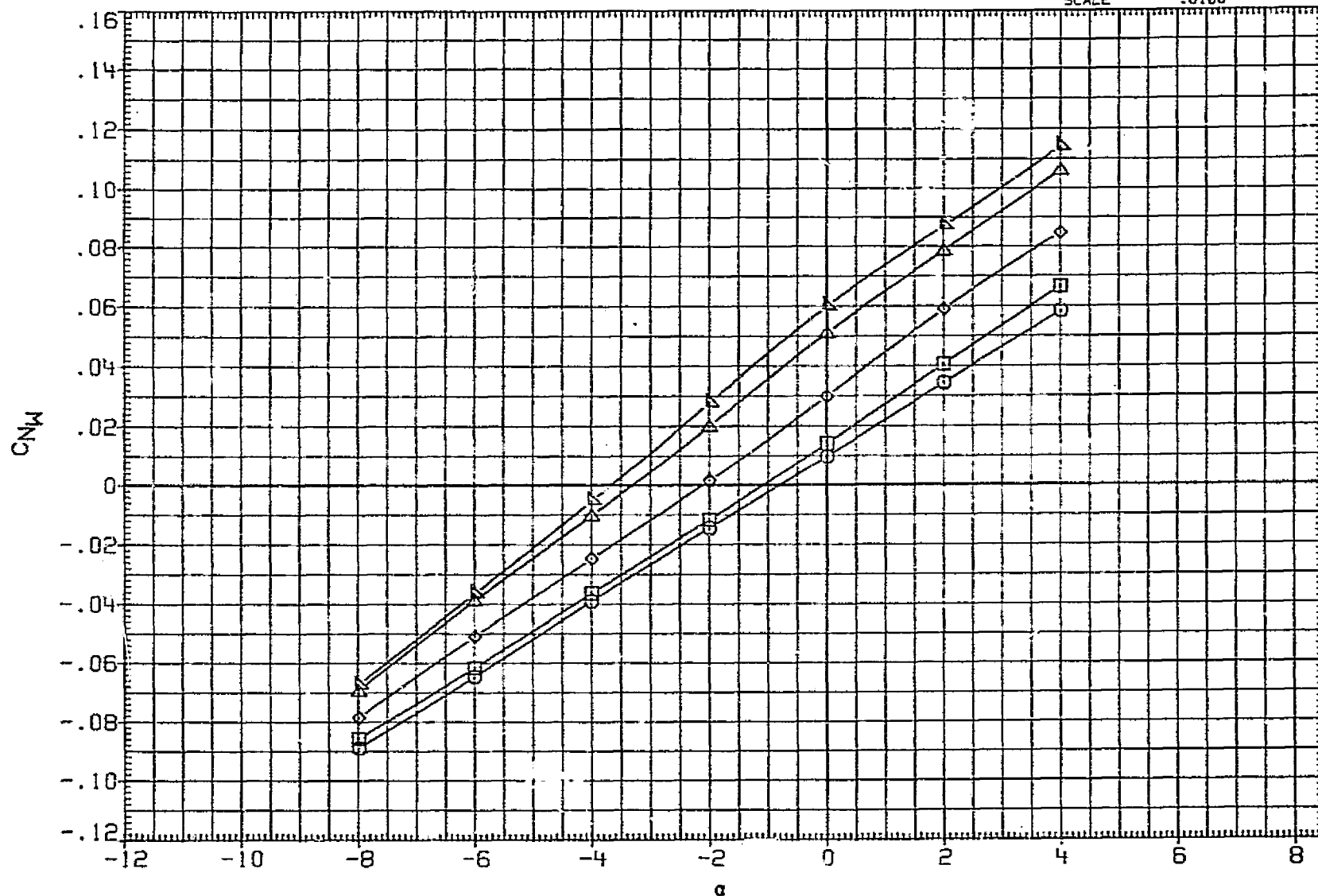


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA07	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	-2690.0000 50.FT.
MJJA08	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000 INCHES
MJJA09	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000 INCHES
MJJA10	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000 IN. XT
MJJA11	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

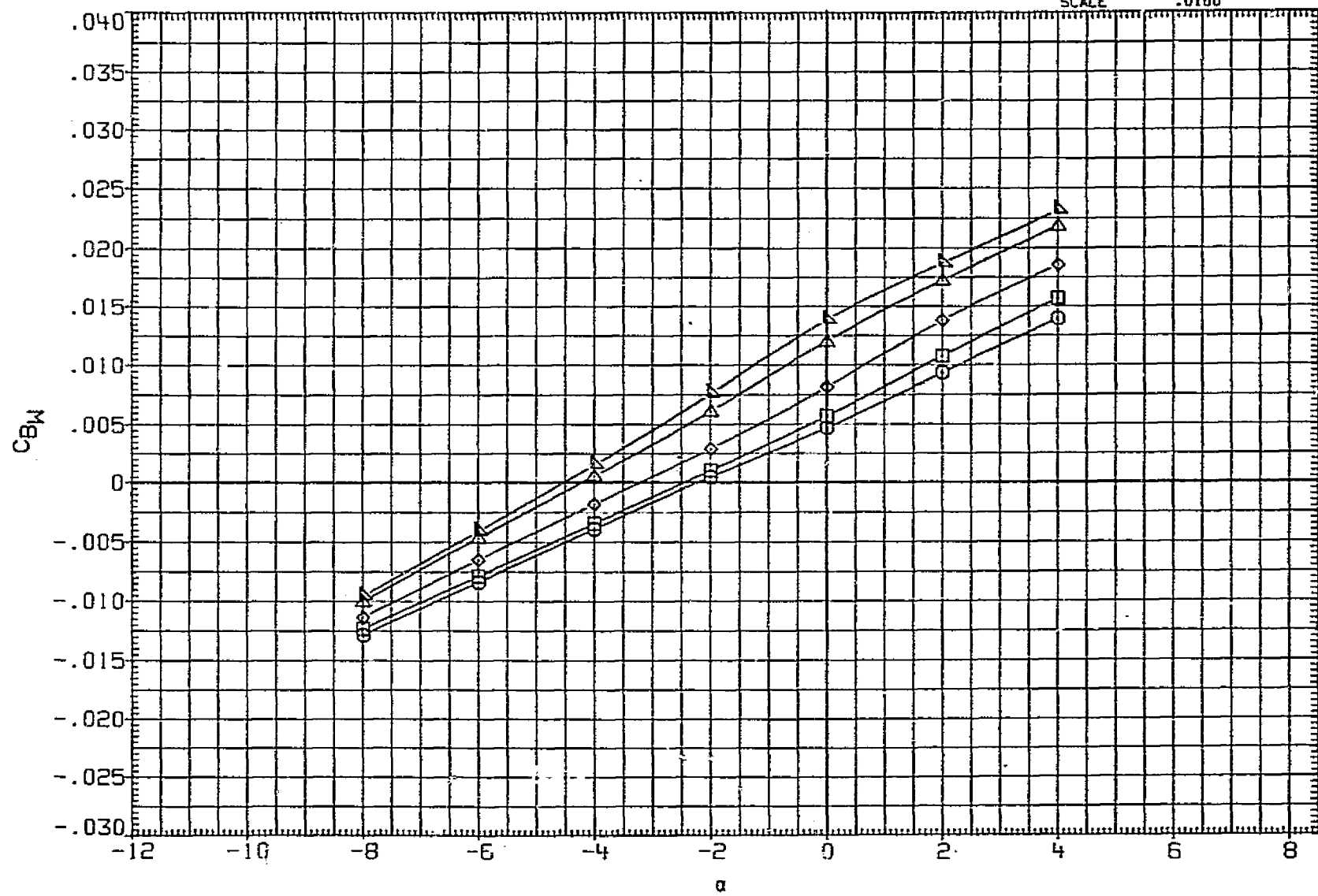


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RD	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	10.000	4.000	10.000	4.000	SREF	2630.0000	90. FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

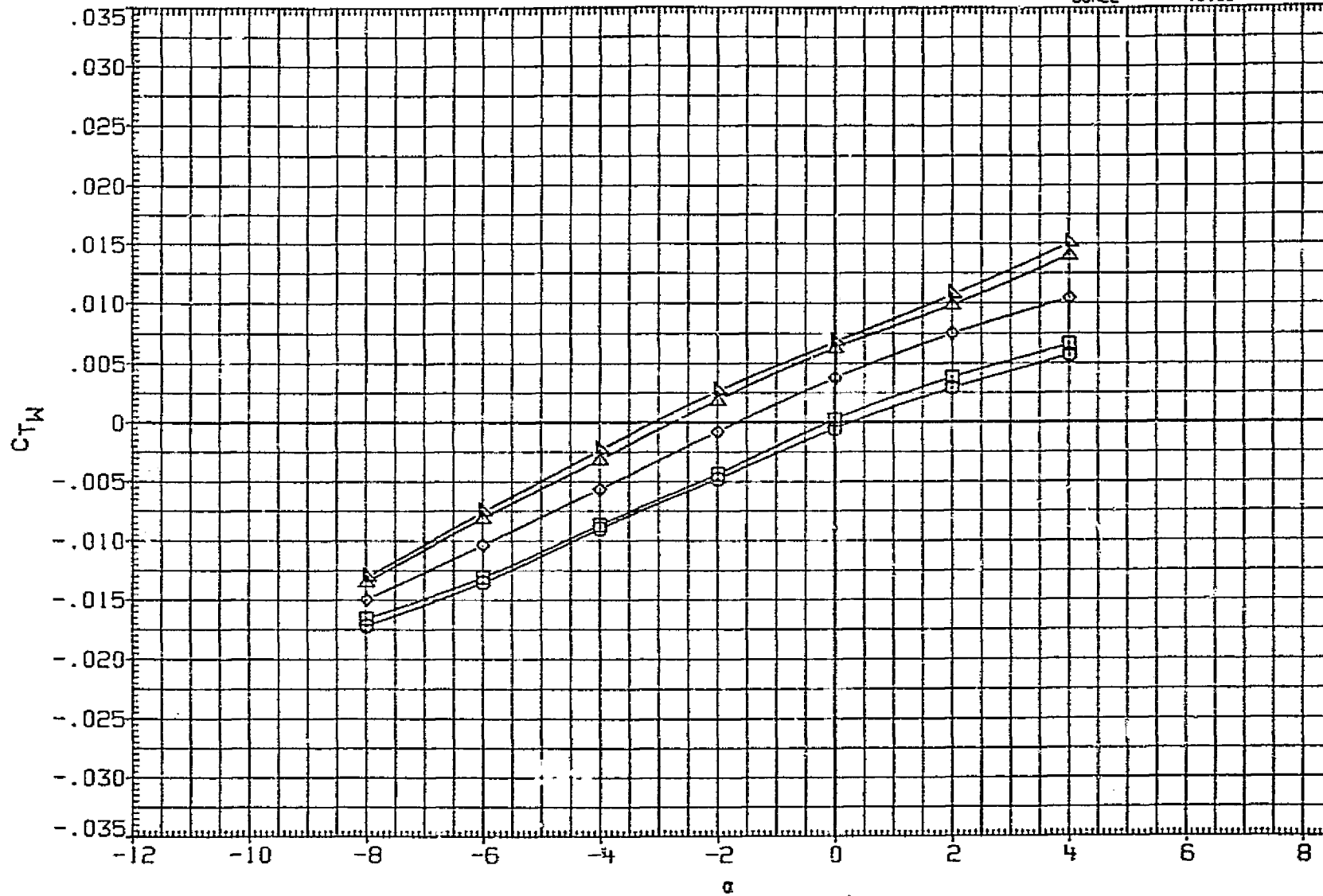


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJA08	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

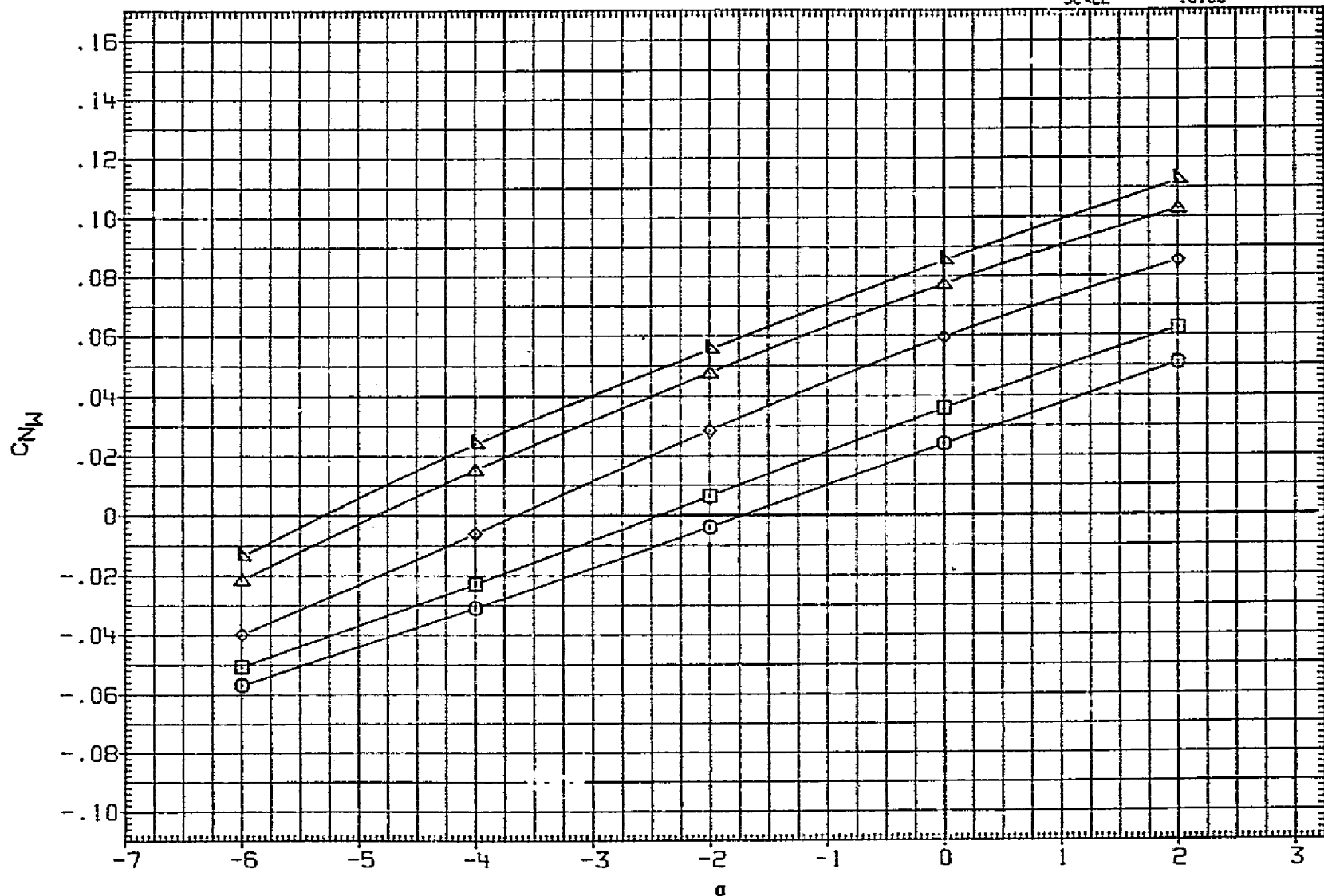


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LC	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	STEP	2000.0000	SCALE
MJJA08	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LRBT	1200.0000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	4.000	10.000	4.000	BRFP	1200.0000	INCHES
MJJA10	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. FT
MJJA11	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. FT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

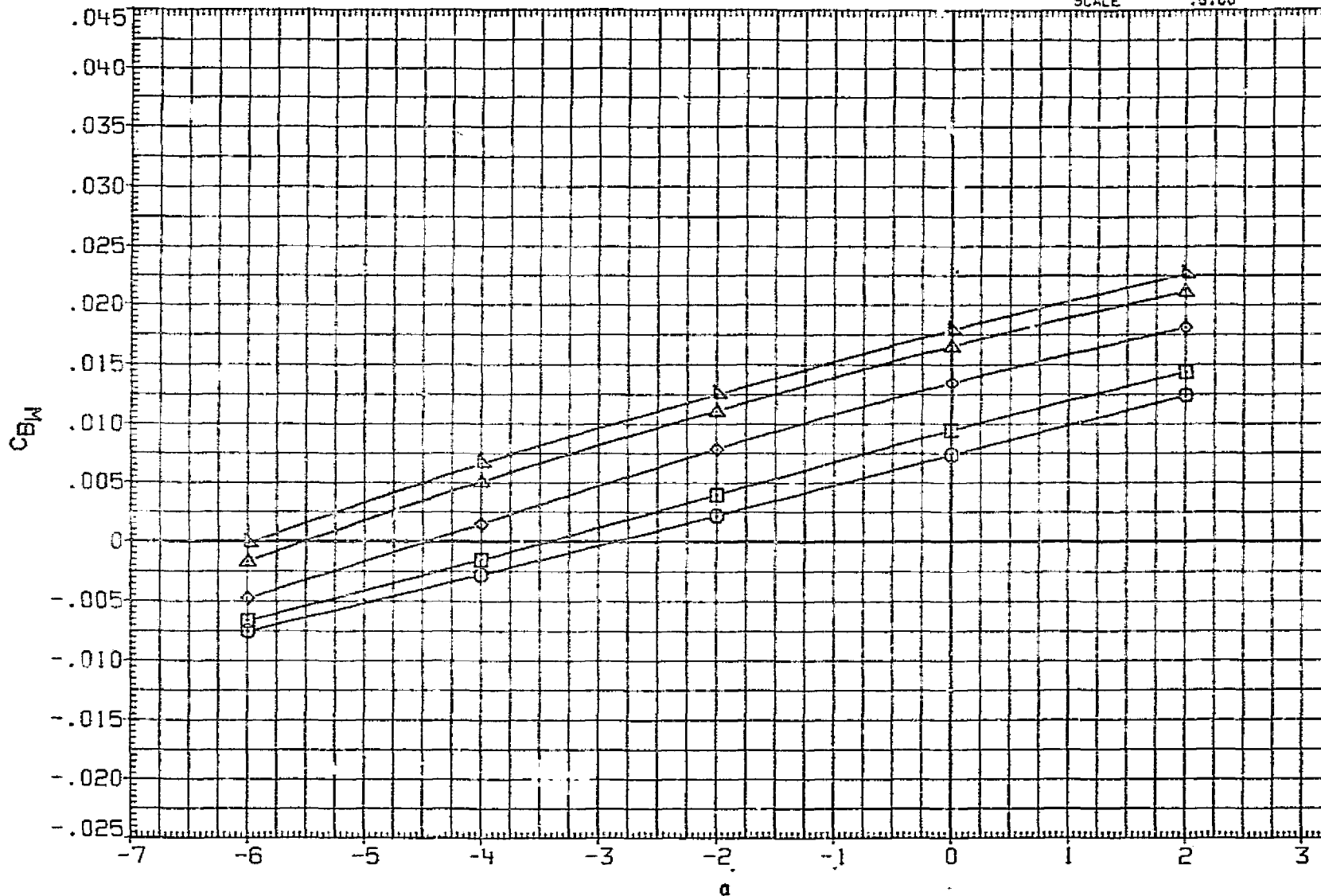


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(C)MACH = 1.15

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	460.0000	IN. ZT
								SCALE	.0100	

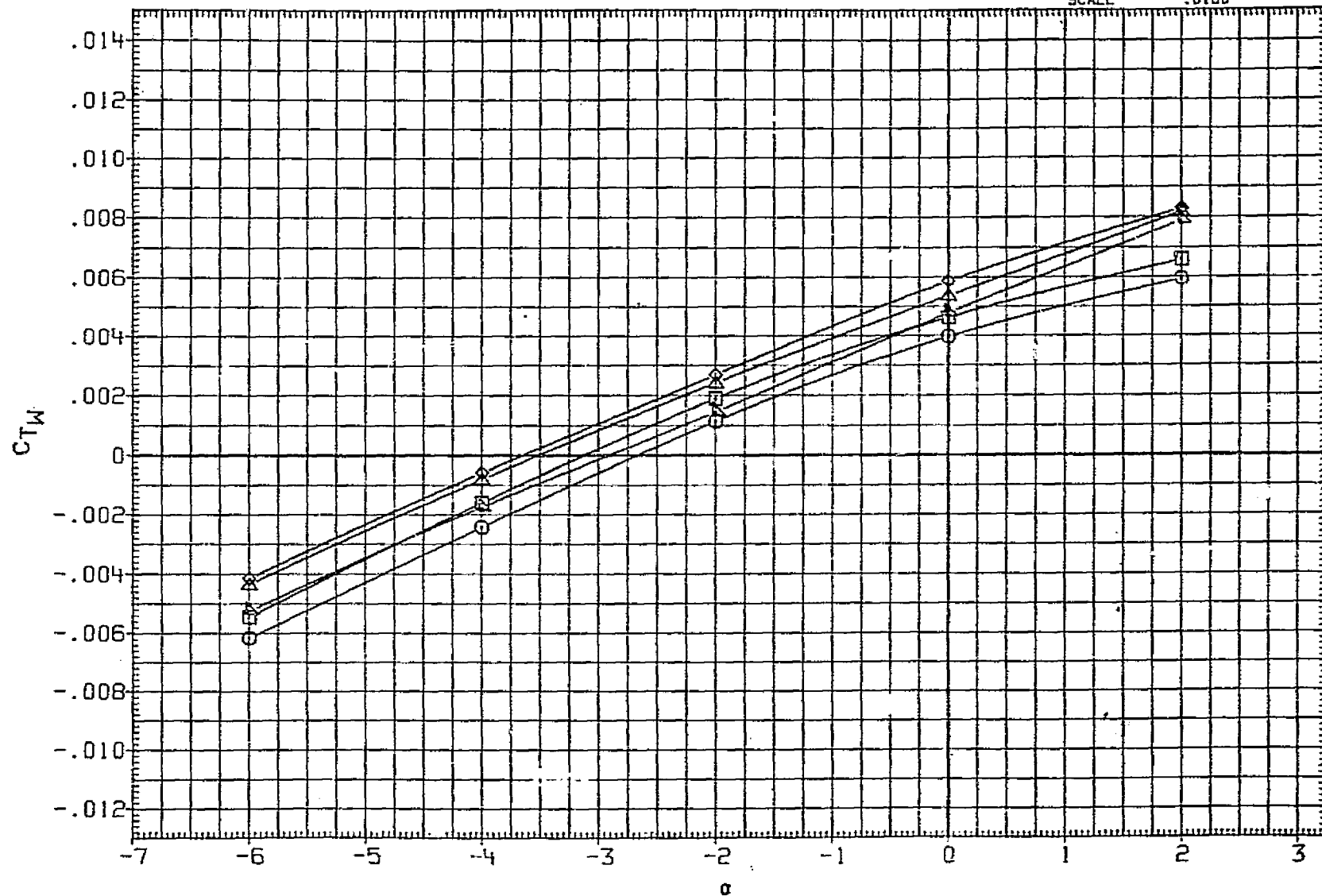


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LG	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA07	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	LREF 2550.0000 SQ.FT.
MJJA08	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF 1850.3000 INCHES
MJJA09	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	EREF 1250.3000 INCHES
MJJA10	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP 976.0000 IN. YZ
MJJA11	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP .0000 IN. YZ
							ZMRP 400.0000 IN. ZT
							SCALE .0100

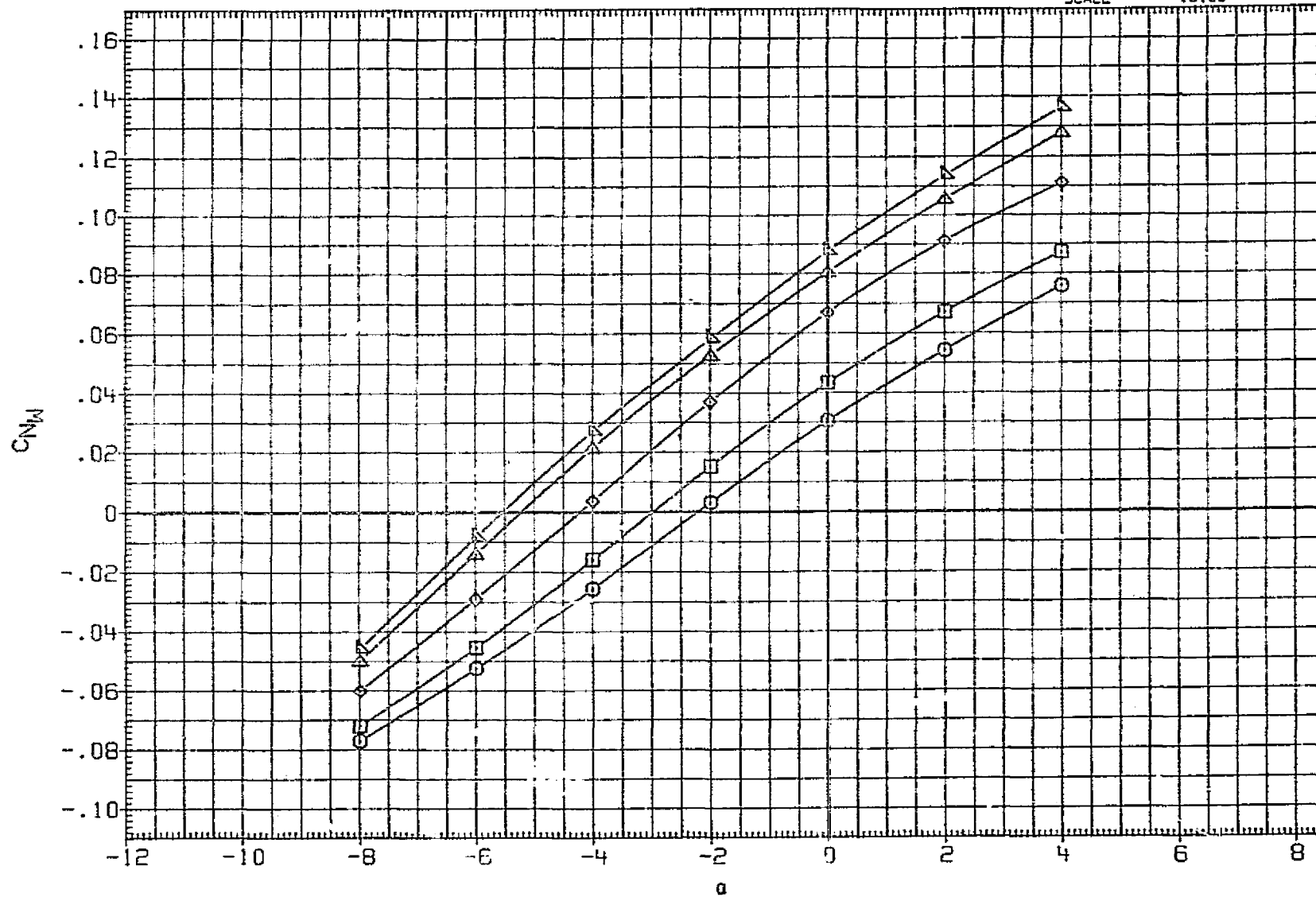


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50.FT.
MJJA08	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◊	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

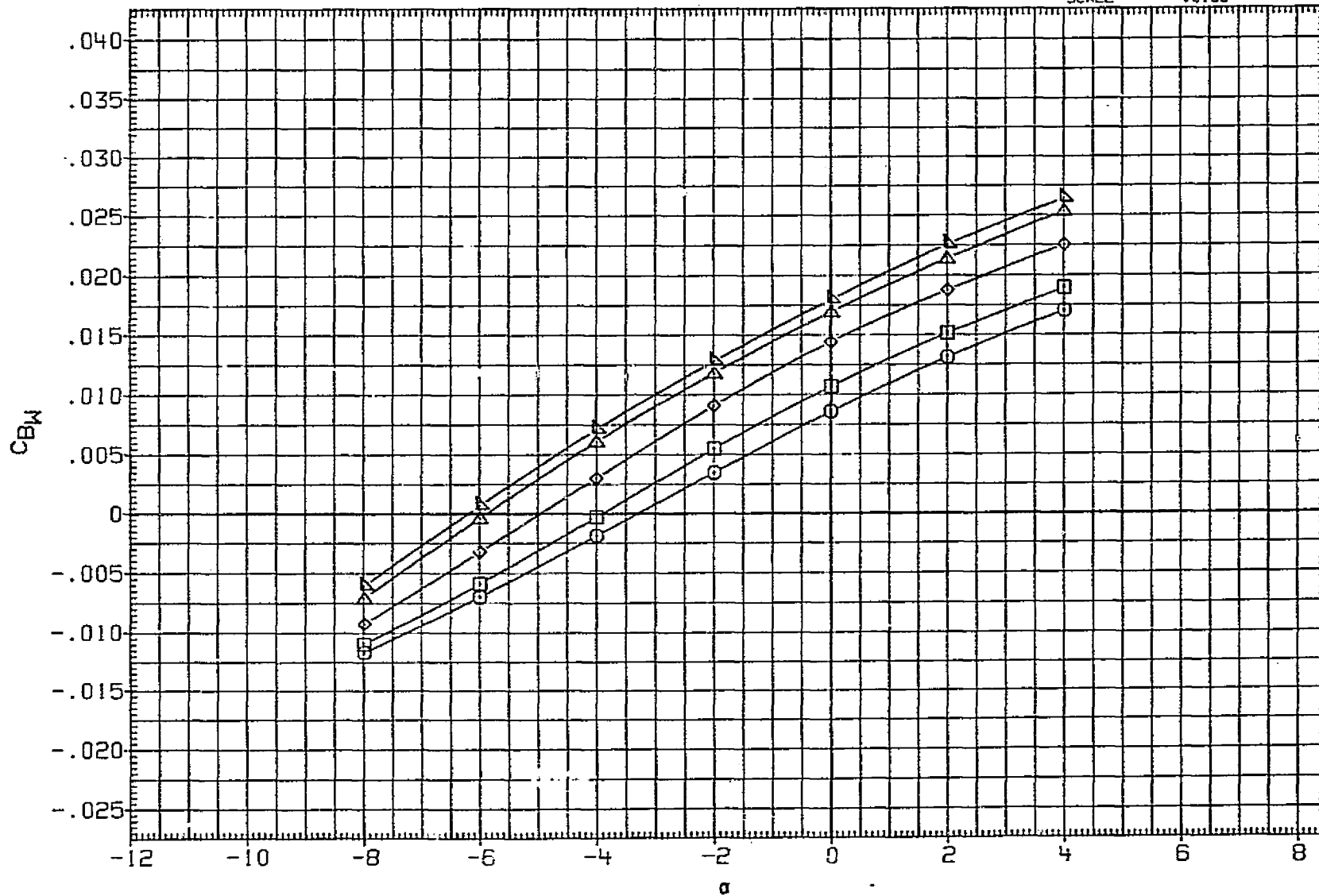


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LC	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2250.0000	SQ. FT.
MJJA08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJA09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJA10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJA11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

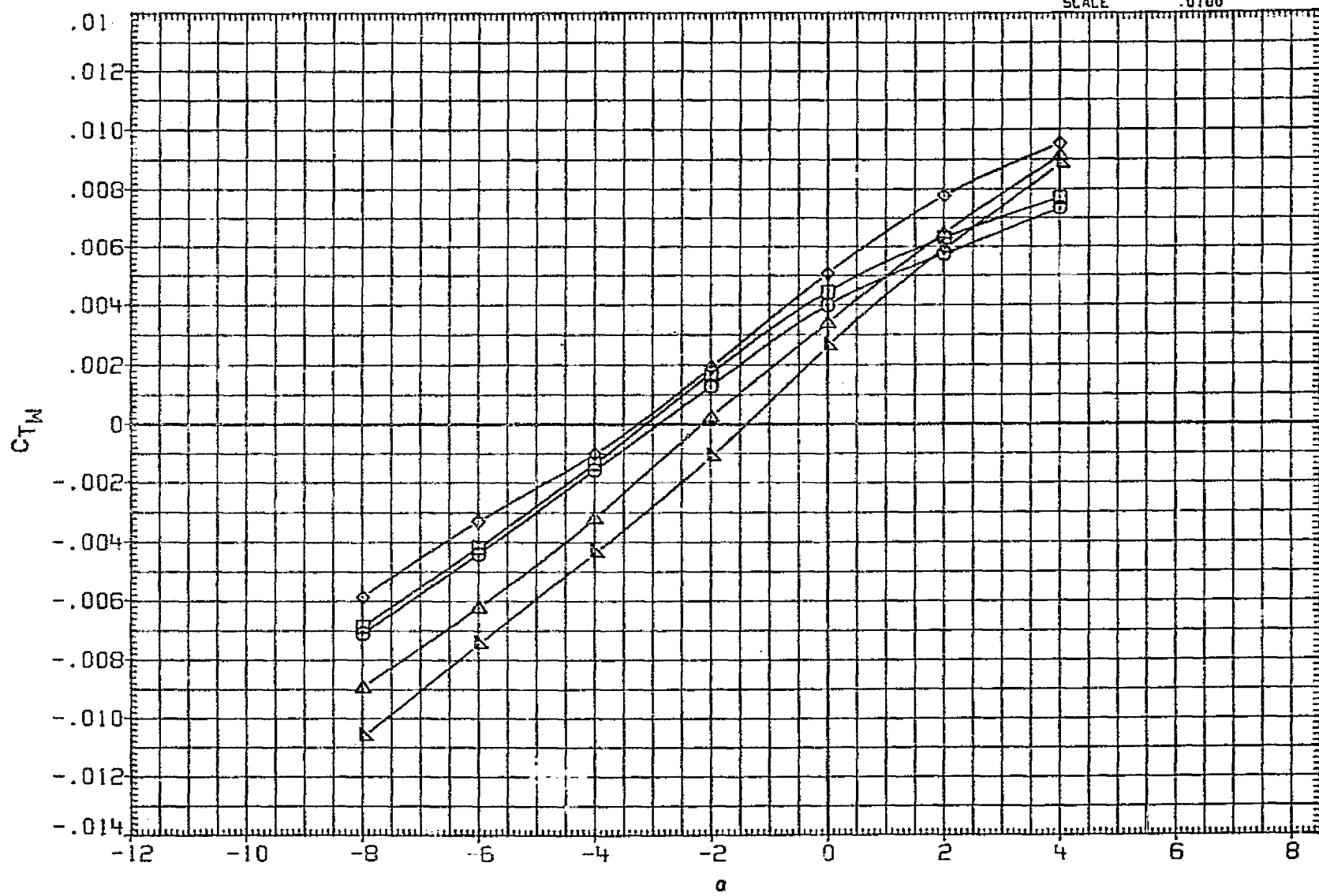


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA12	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	SQ.FT.
MJJA13	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJA14	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJA15	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJA16	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

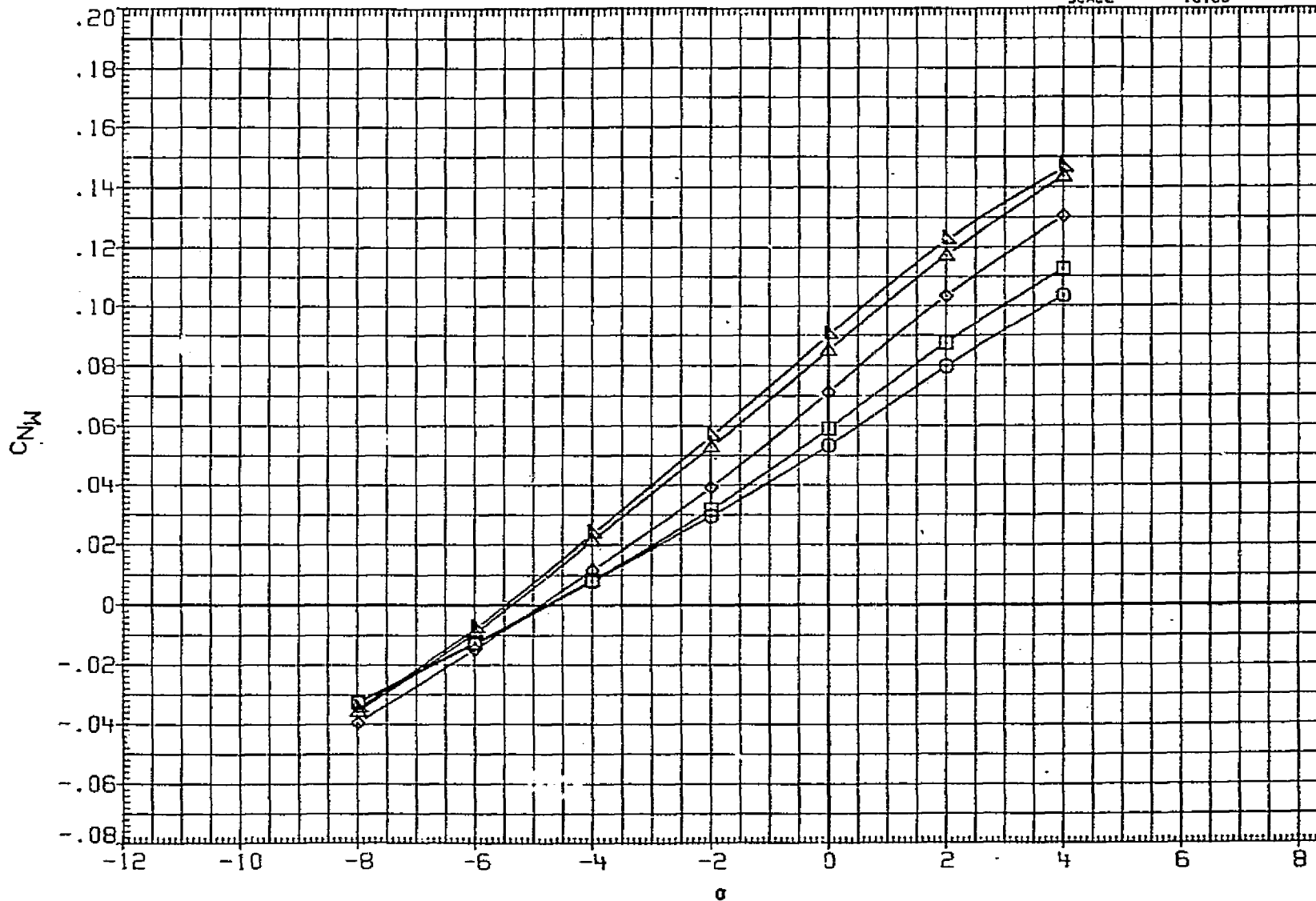


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	50. FT.
MJJA13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJA14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJA15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJA16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	480.0000	IN. ZT
								SCALE	.0100	

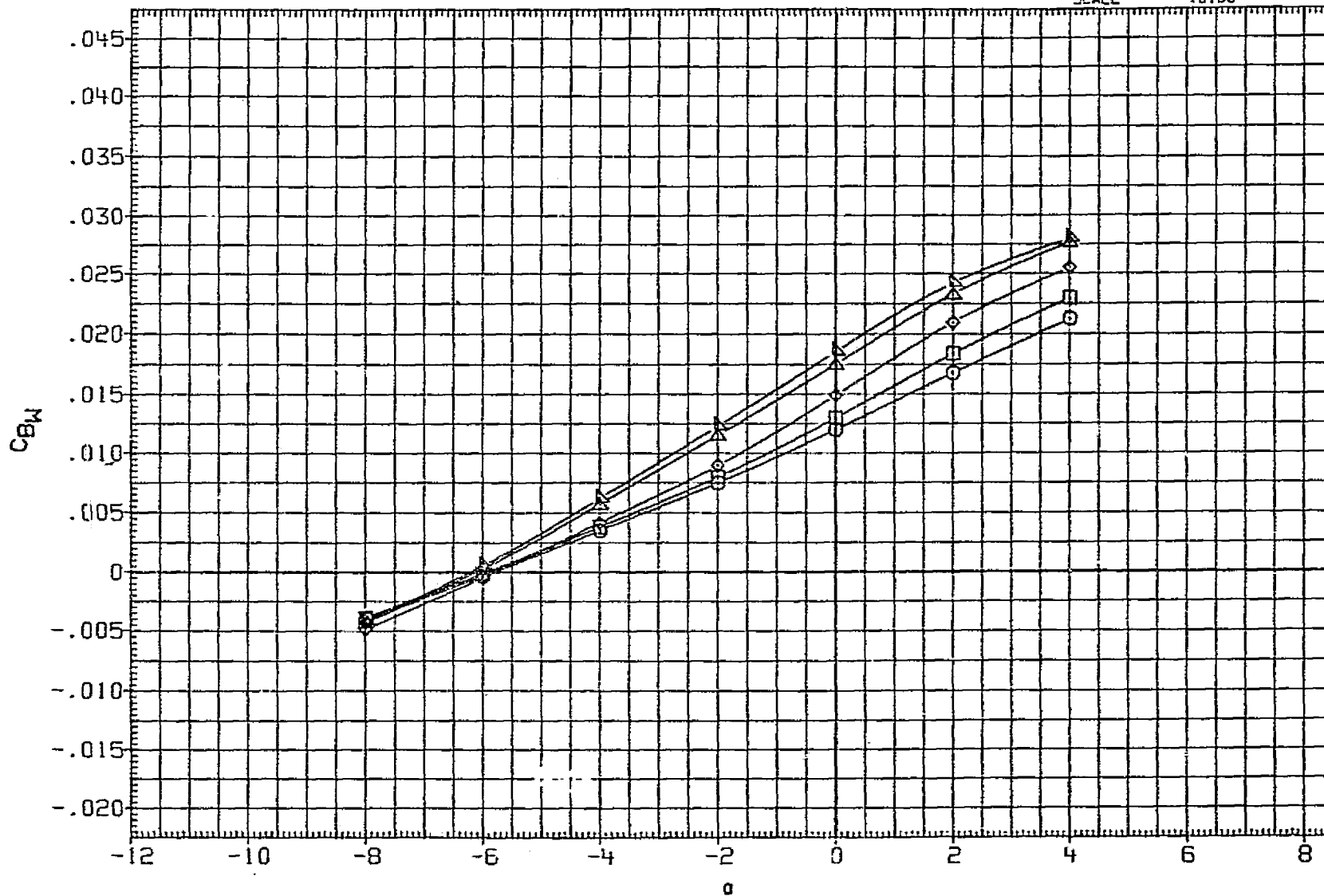


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	GREF	2690.0000	SQ. FT.
MJJA13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJA14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJA15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJA16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

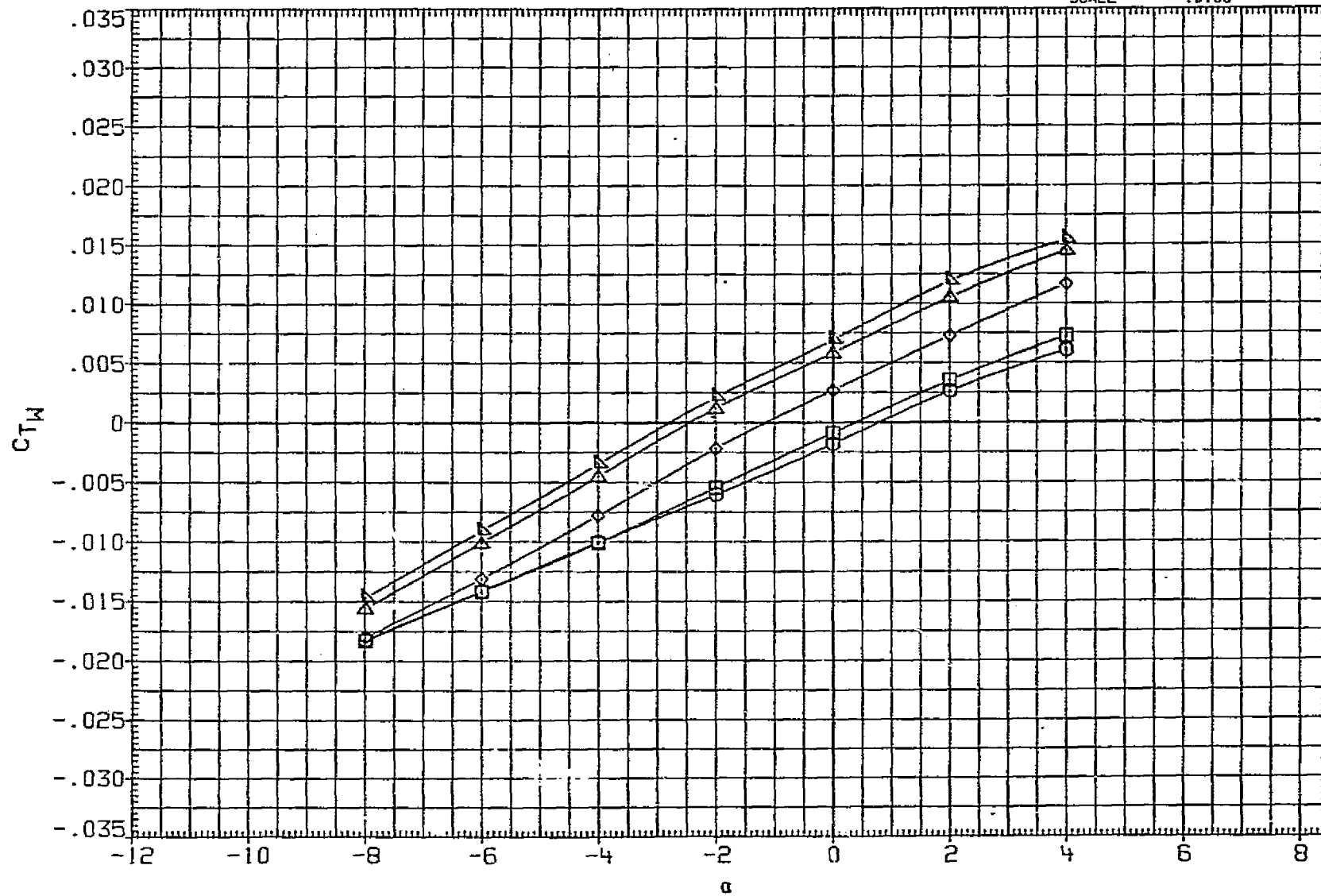


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA12	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	18.000	14.000	10.000	14.000	SREF	2650.0000	50. FT.
MJJA13	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJA14	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJA15	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	YMRP	976.0000	IN. XT
MJJA16	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	ZMRP	400.0000	IN. ZT
								SCALE	.0100	

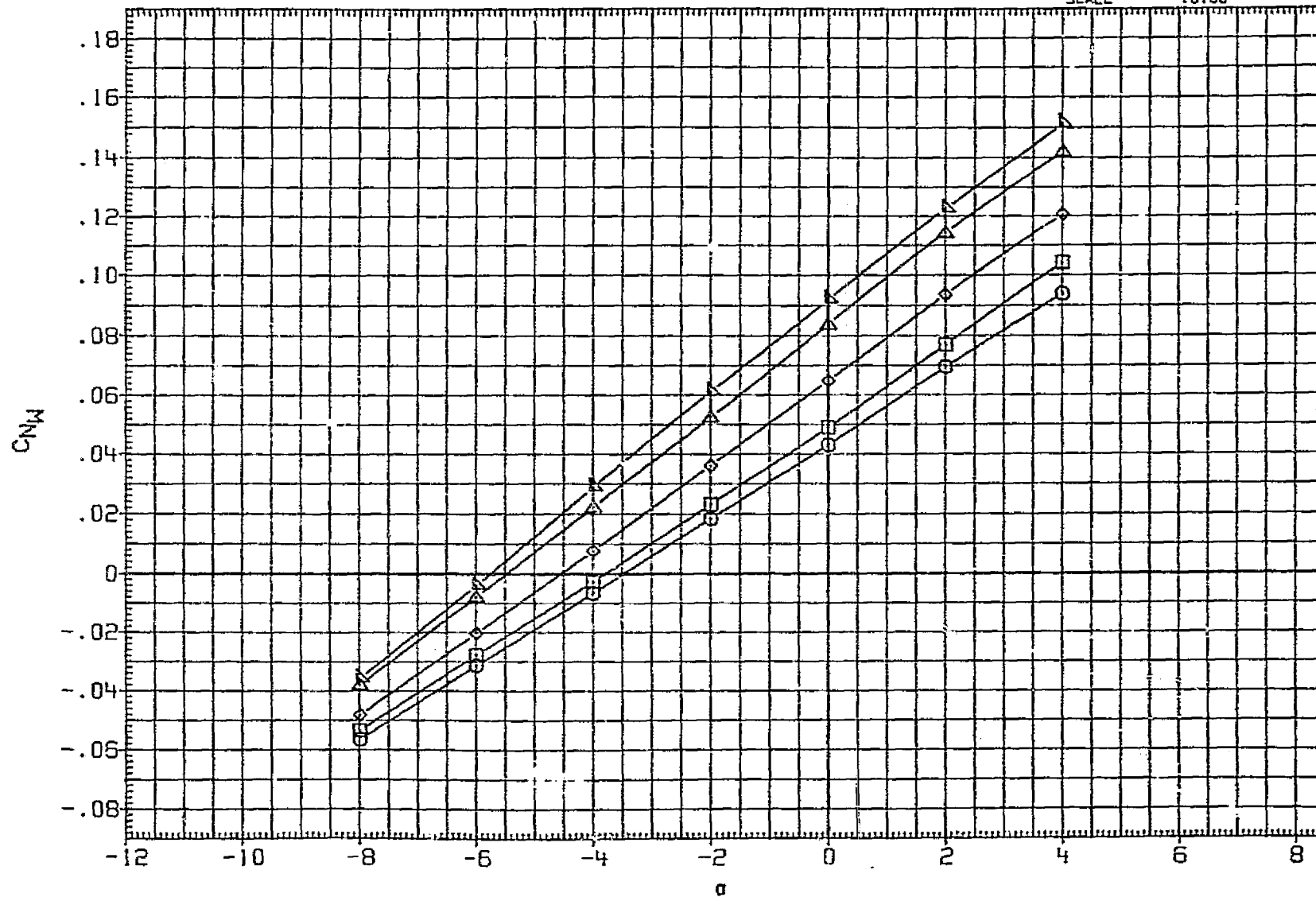


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA12	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	SQ.FT.
MJJA13	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJA14	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJA15	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJA16	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

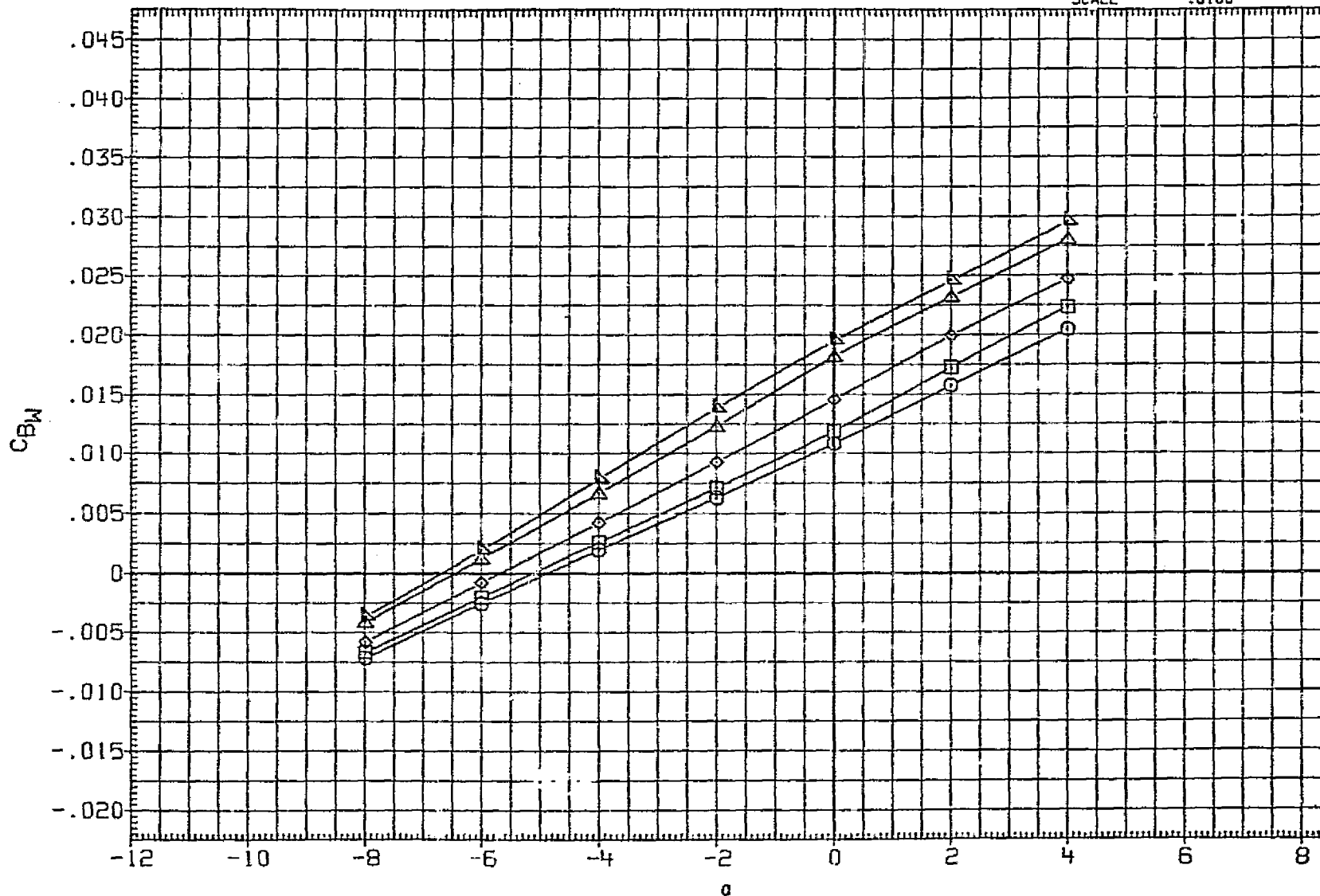


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2890.0000	50. FT.
MJJA13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJA14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJA15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJA16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

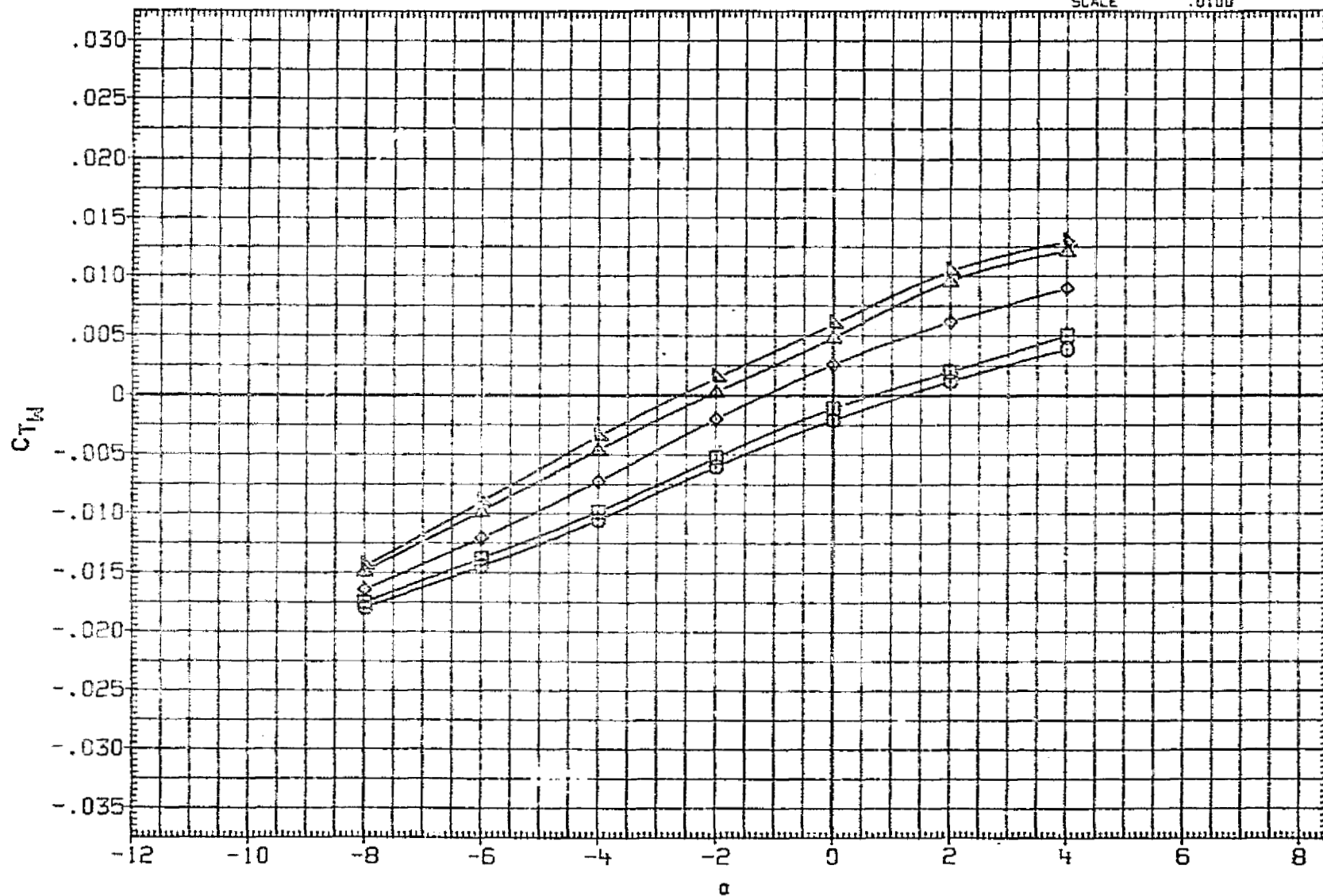


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L:	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50.FT.
MJJA18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	⊠	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

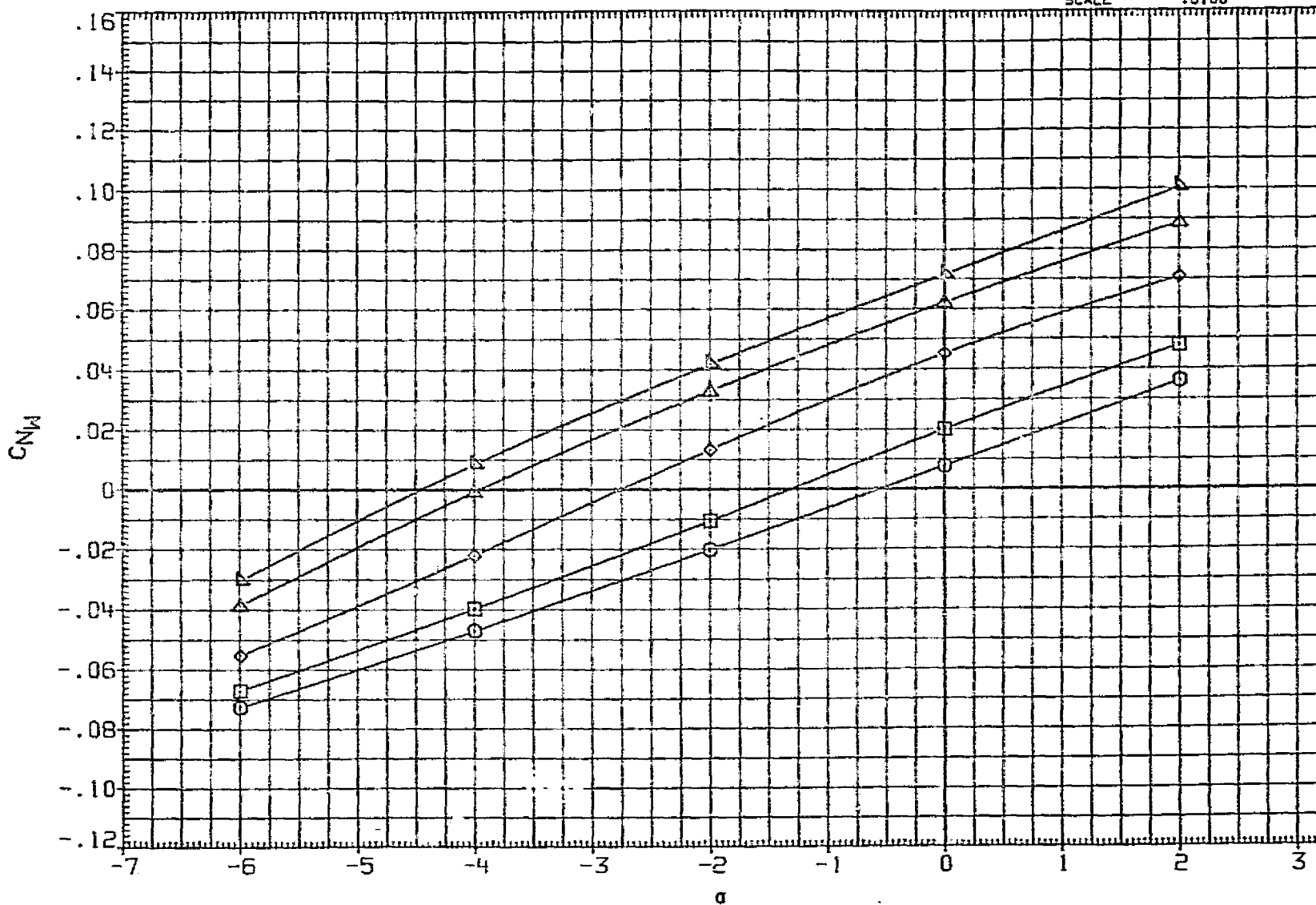


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2360.0000	60. FT
MJJA18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1880.0000	100. IN.
MJJA19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1200.0000	100. IN.
MJJA20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	YMFP	978.0000	IN. XT
MJJA21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMFP	.0000	IN. XT
								ZMFP	400.0000	IN. XT
								SCALE	.0100	

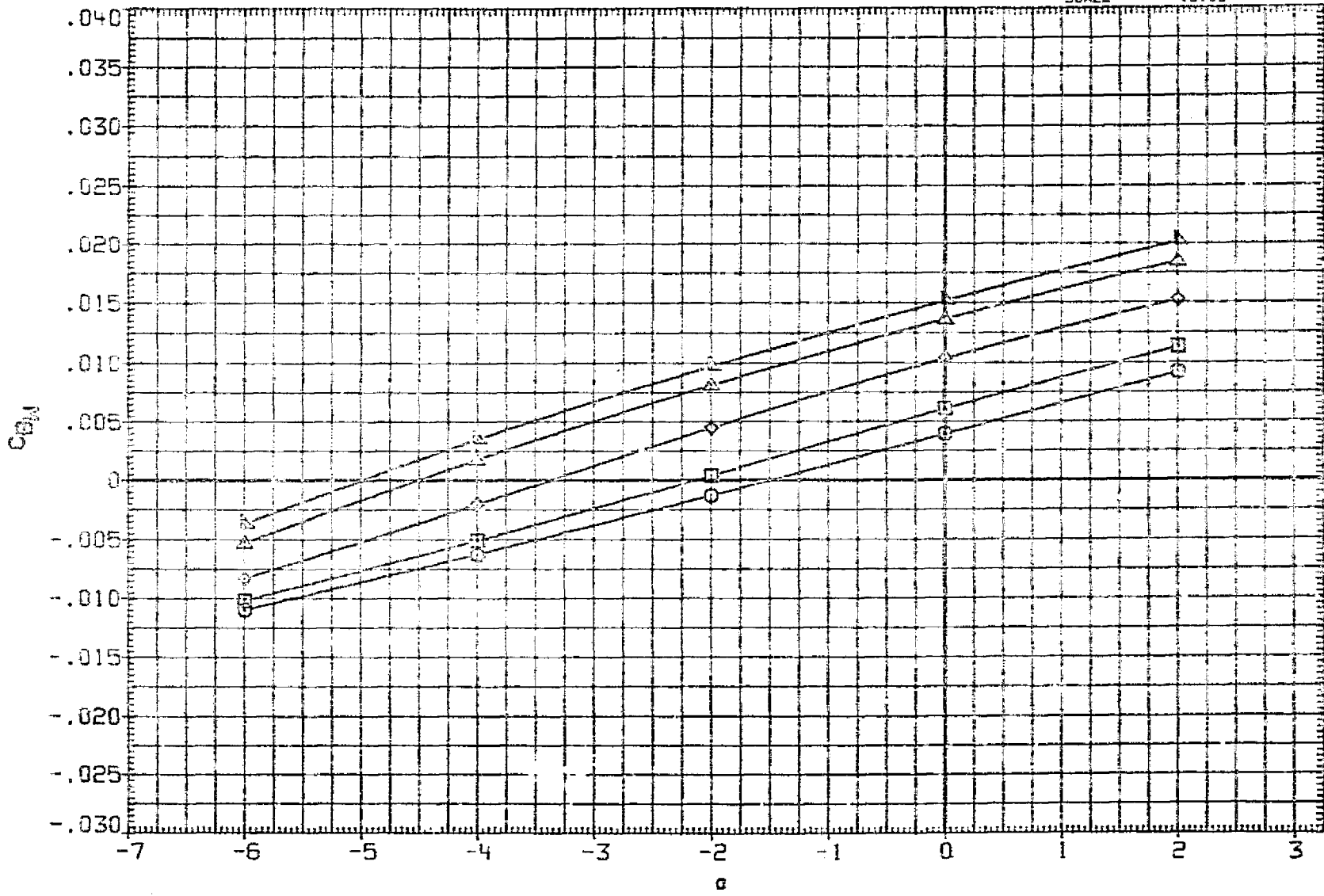


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA17	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50. FT.
MJJA18	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

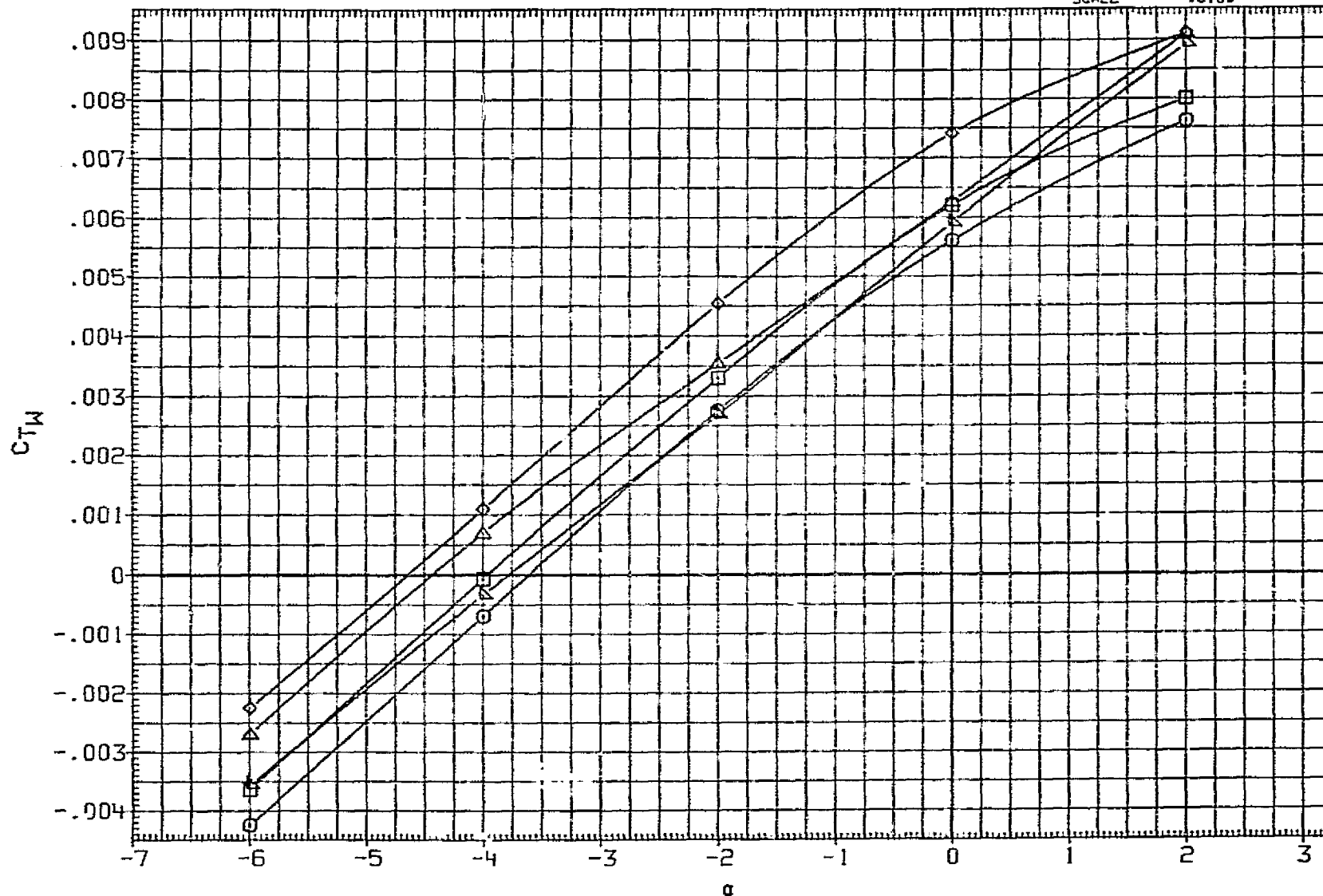


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	SQ.FT.
MJJA18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

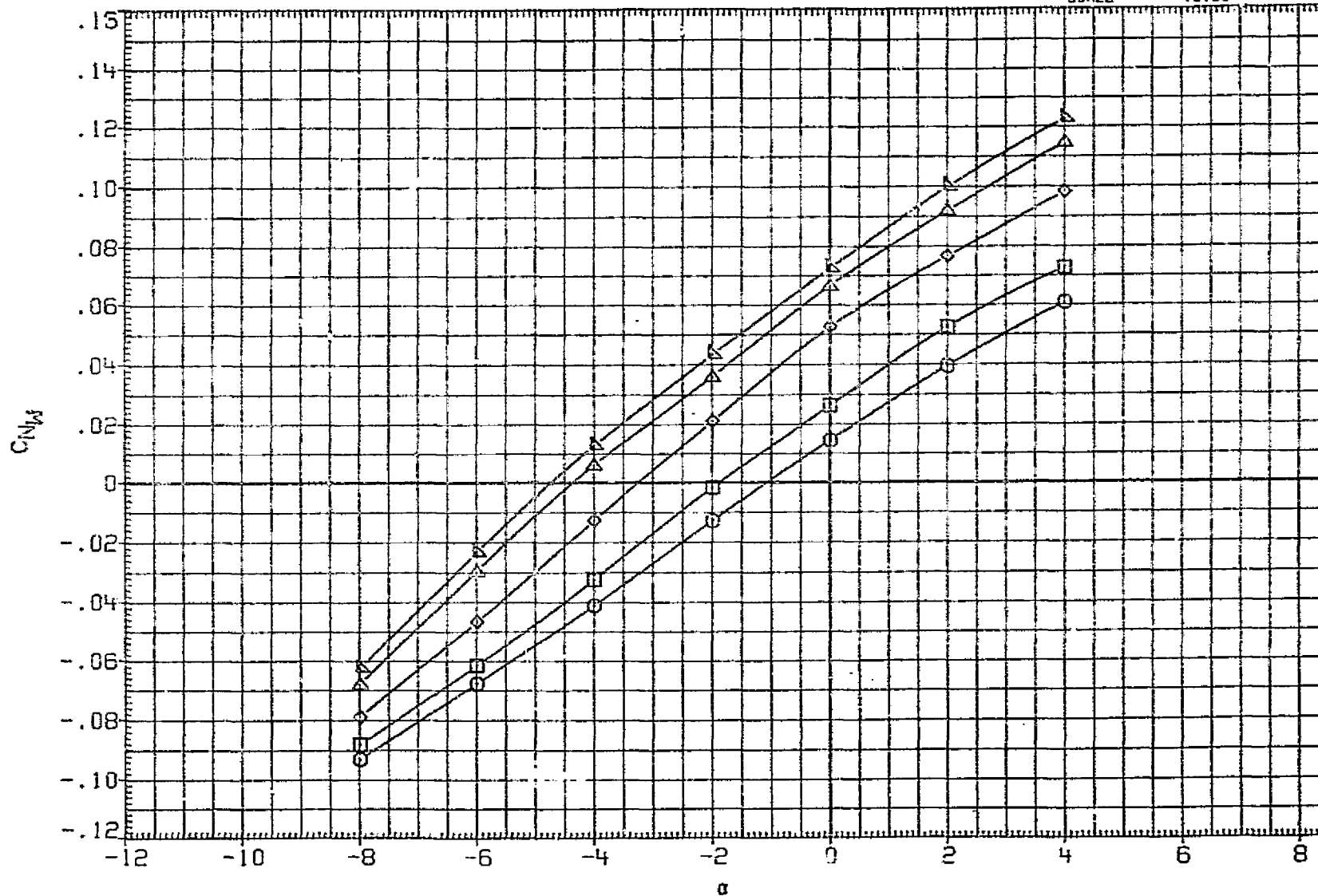


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2650.0000	50.FT.
MJJA18	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZHRP	400.0000	IN. ZT
								SCALE	.0100	

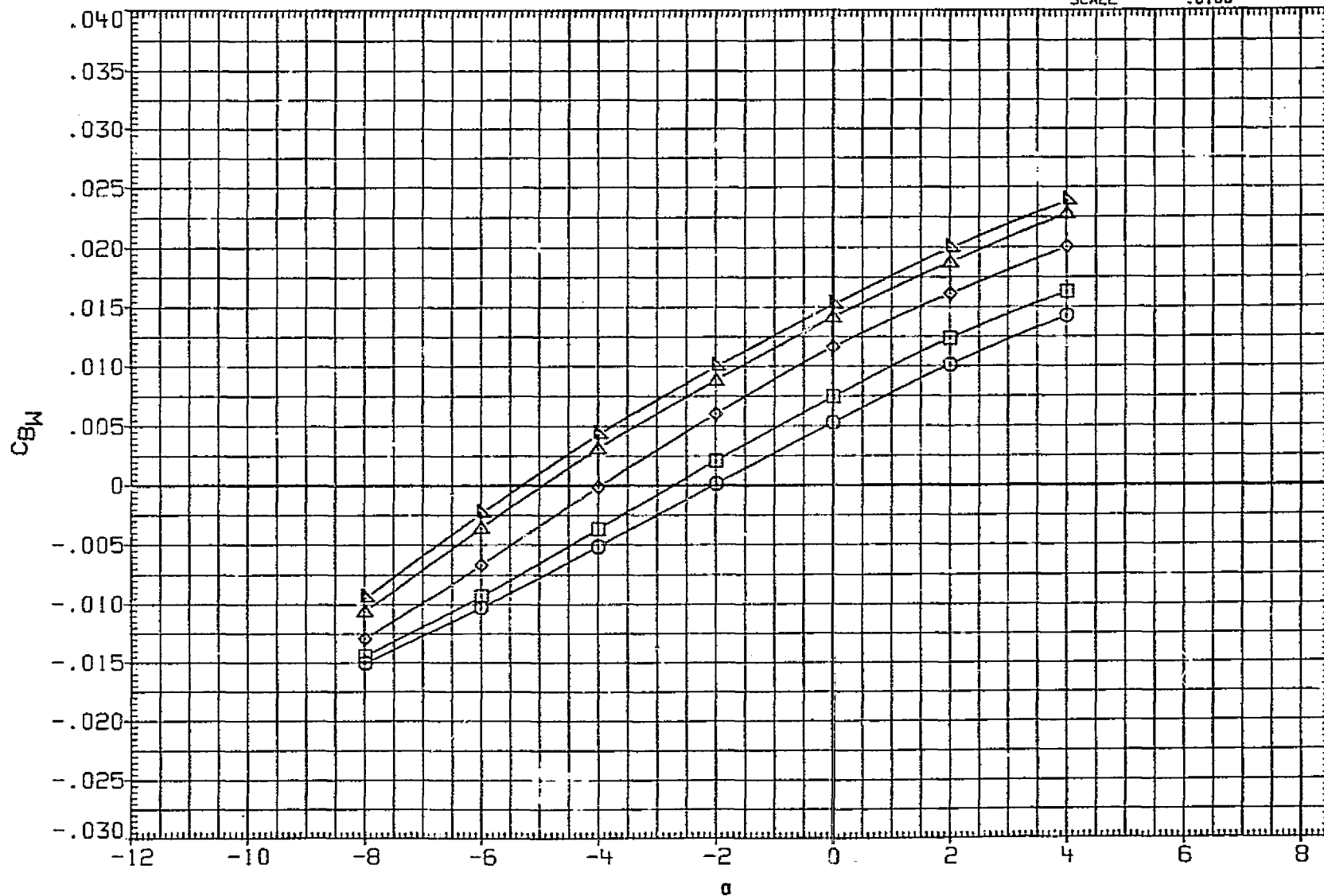


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	SQ.FT.
MJJA18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJA19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJA20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJA21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

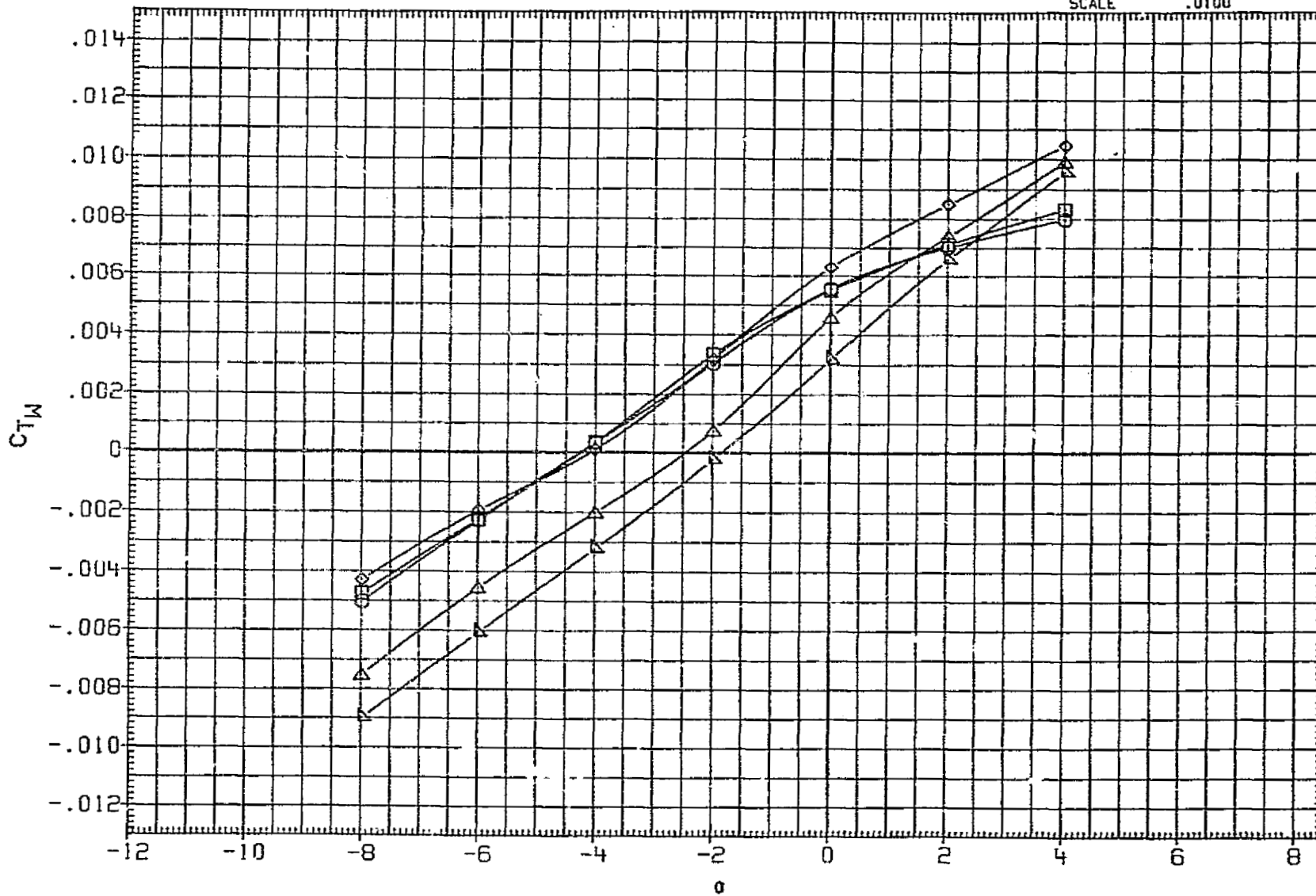


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA22	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	SQ.FT.
MJJA23	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

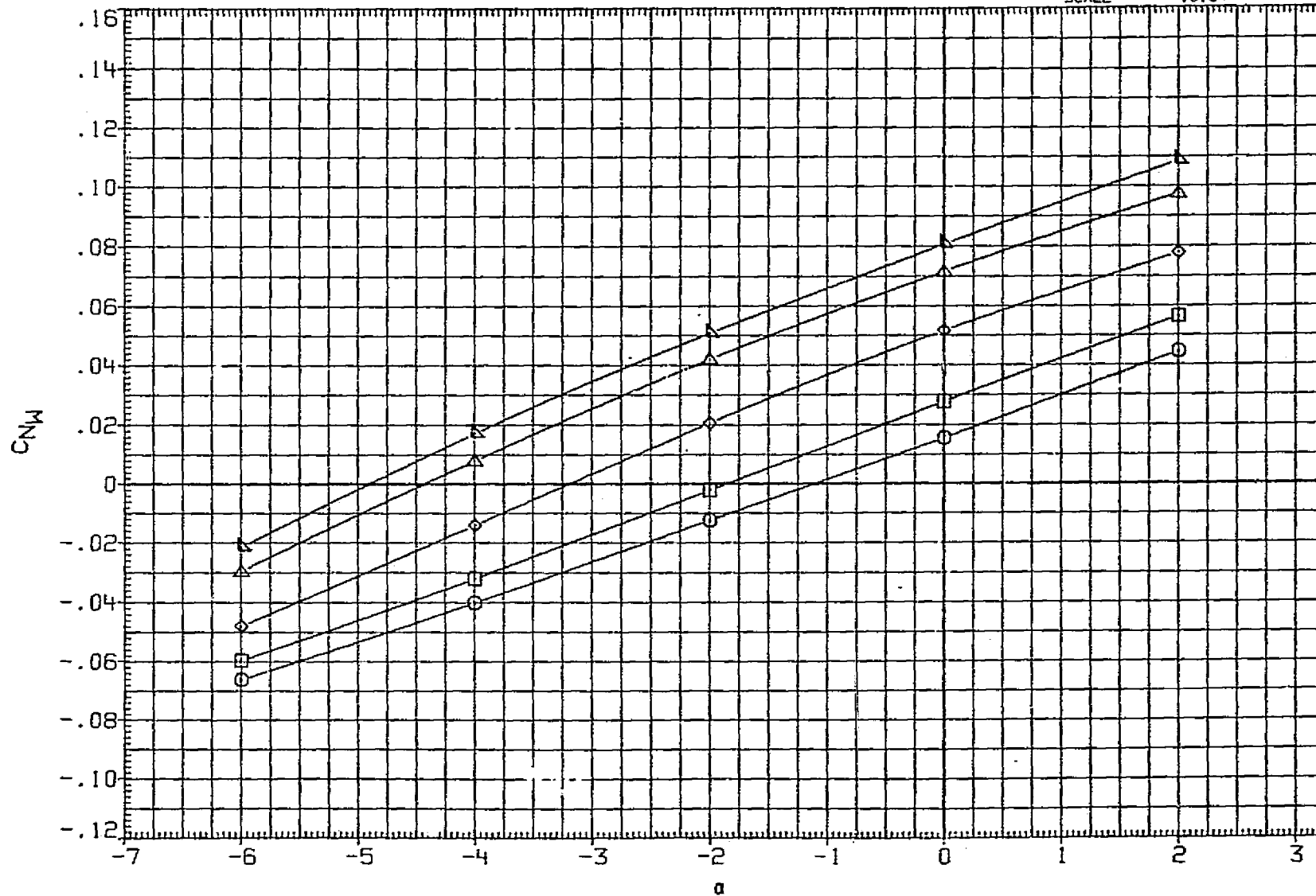


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJA23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

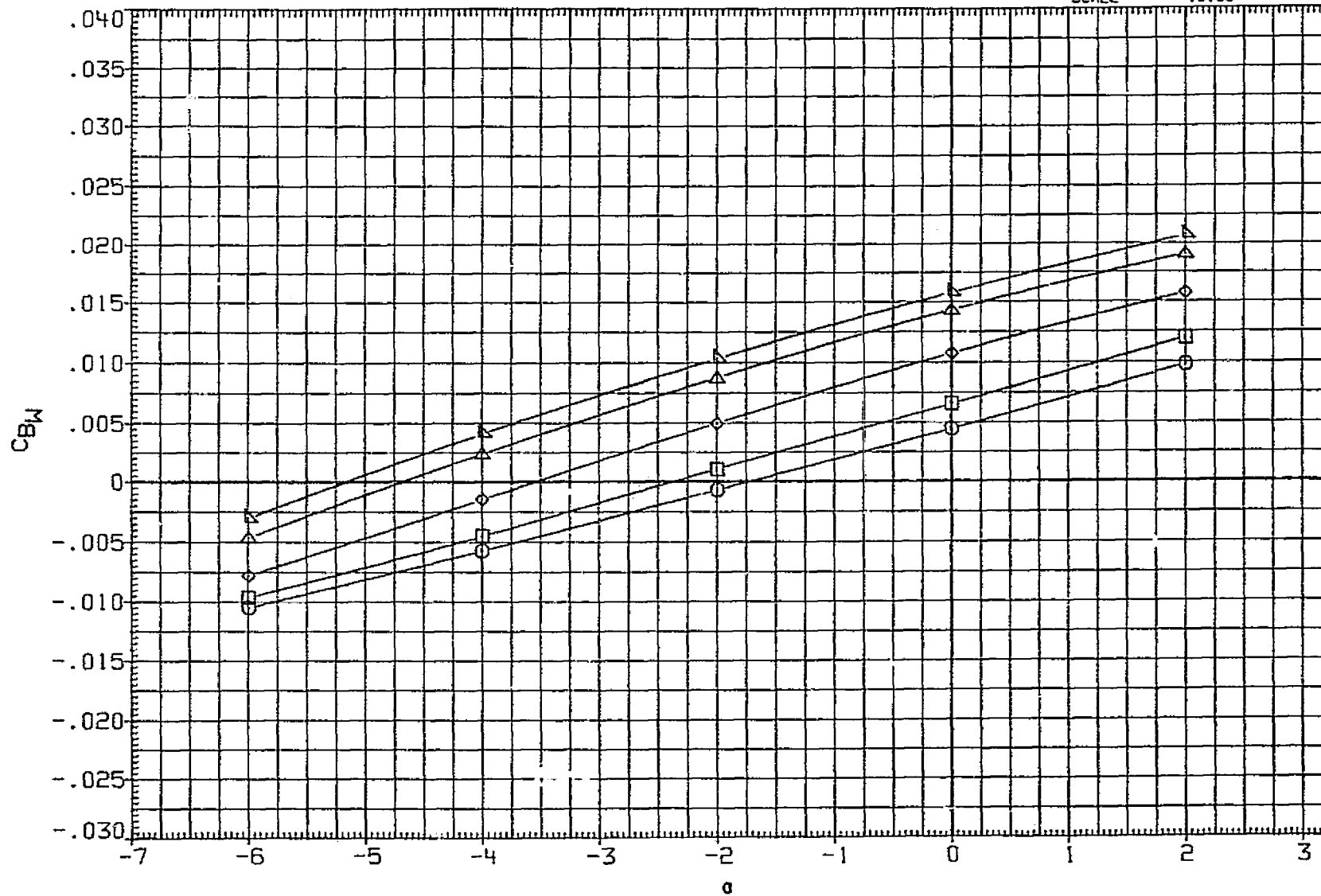


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA22	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJA23	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0070	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

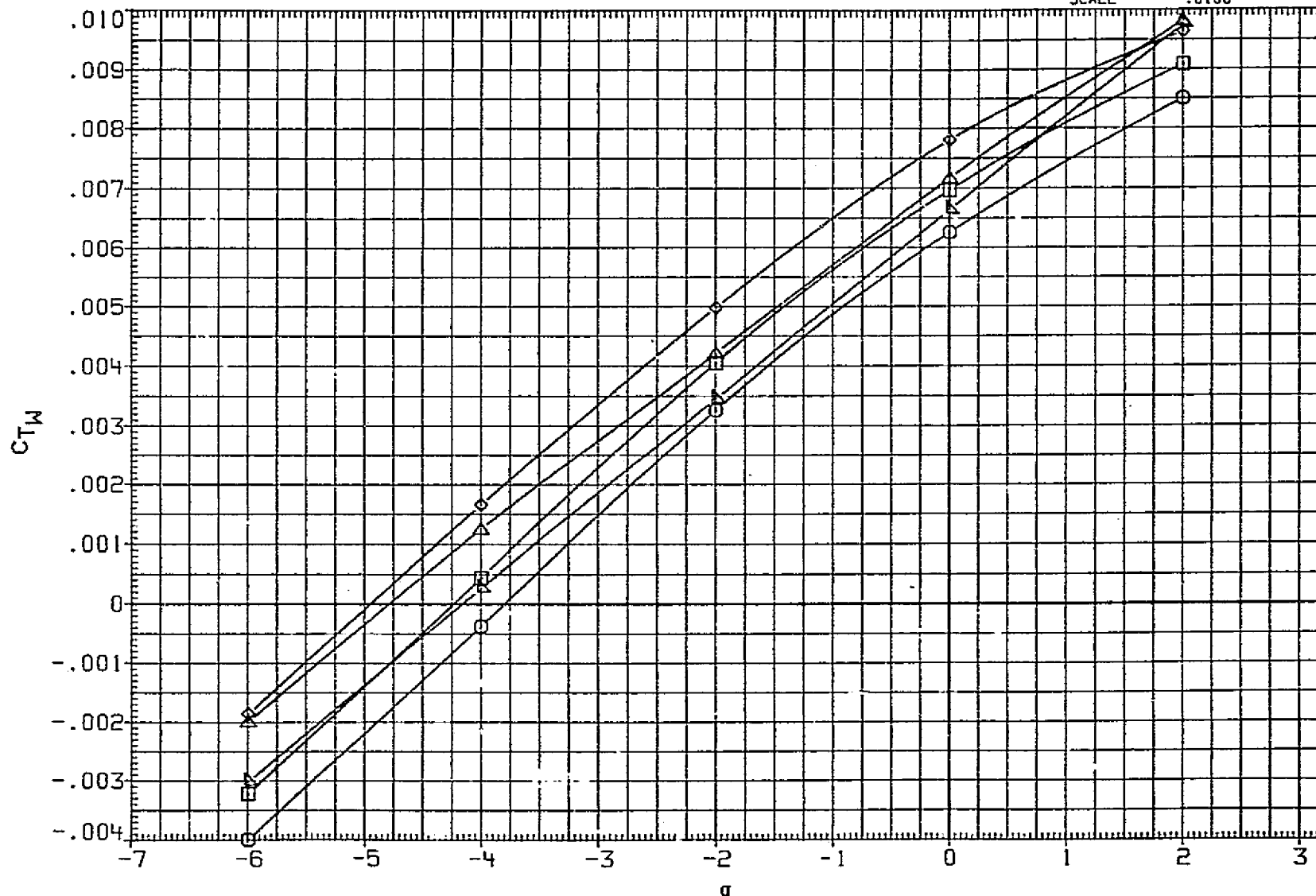


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	EREF	2890.0000	90. FT.
MJJA23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	EREF	1290.5000	INCHES
MJJA25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJA26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

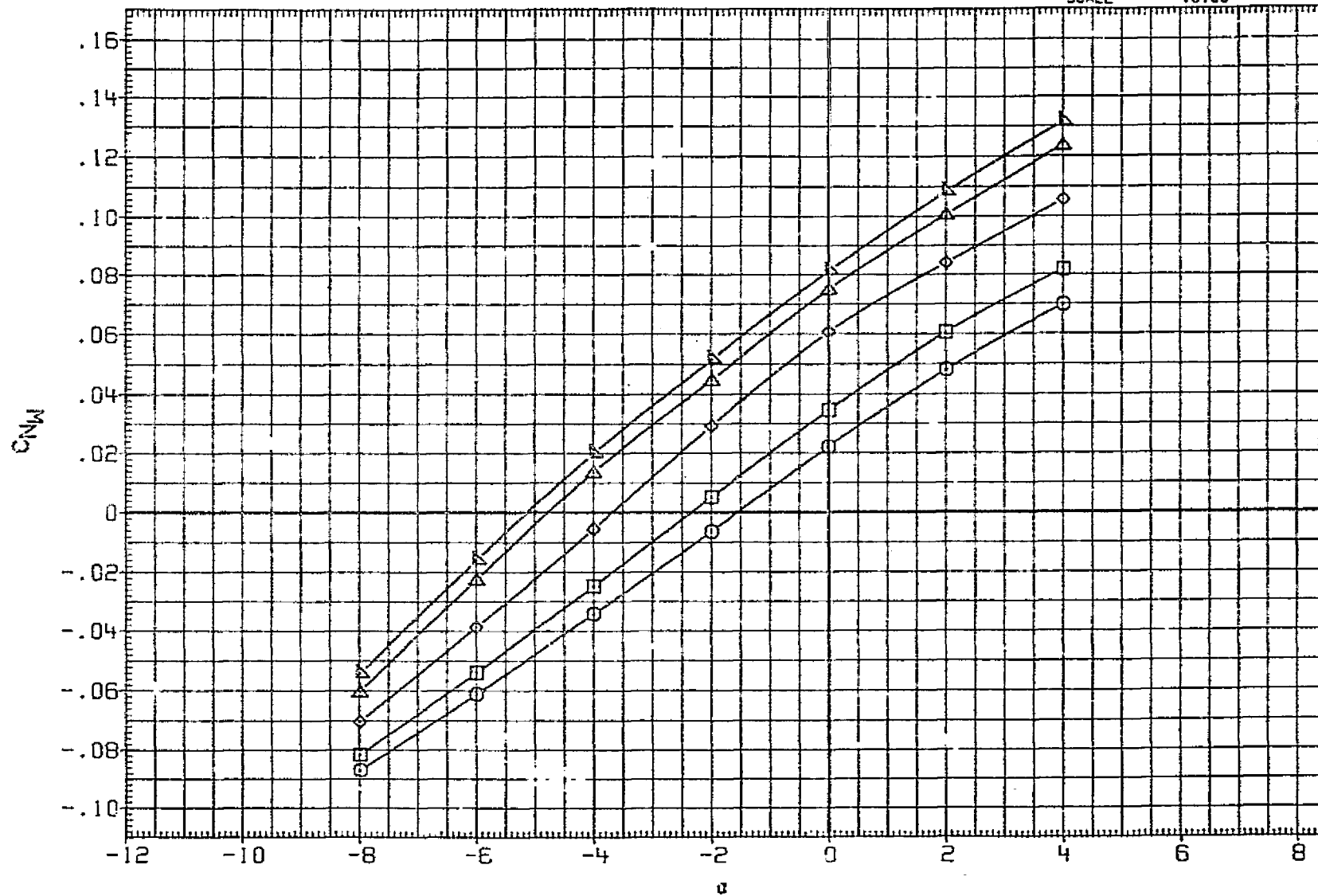


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION	
MJJA22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000 SQ. FT.
MJJA23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000 INCHES
MJJA24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000 INCHES
MJJA25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000 IN. XT
MJJA26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

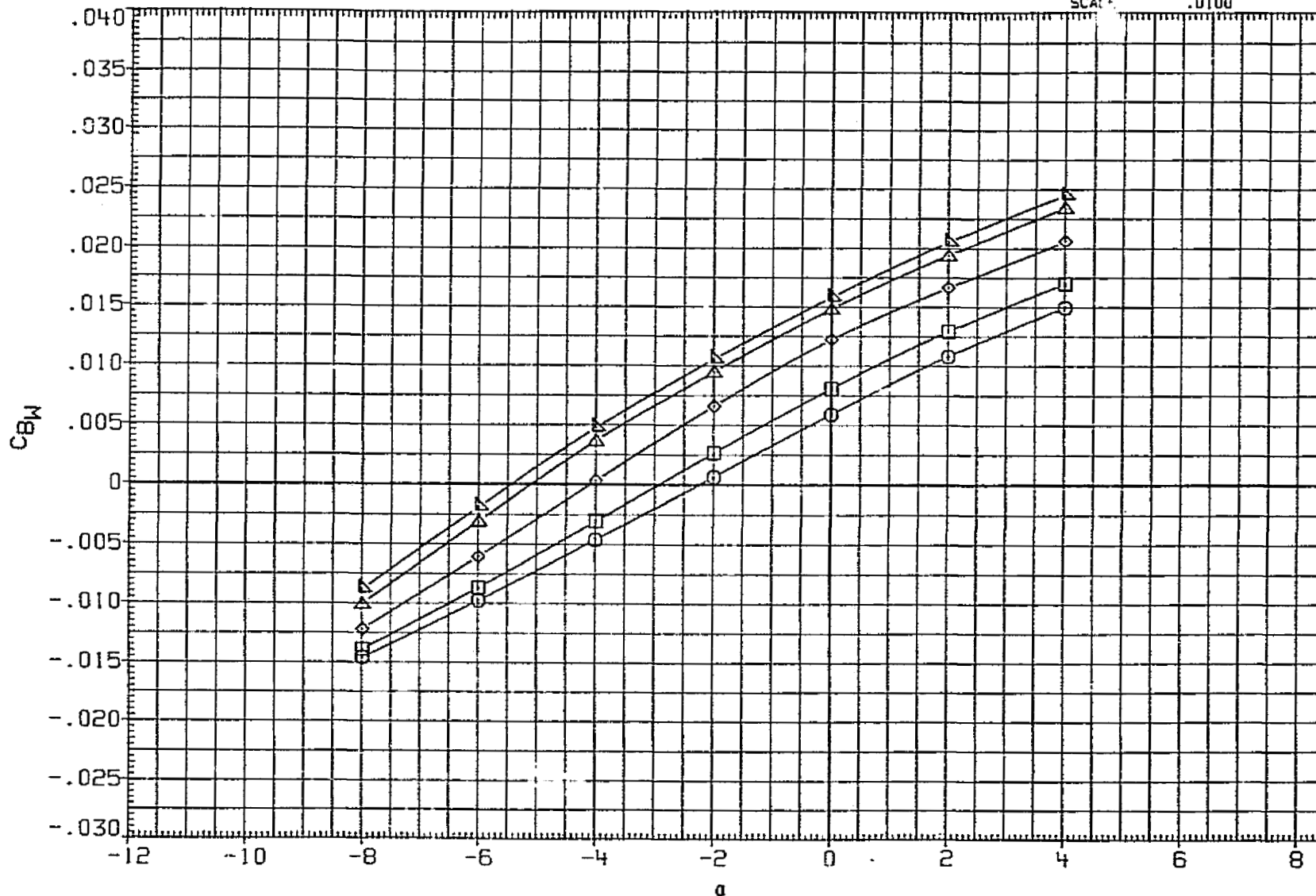


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA22	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0100	50. FT.
MJJA23	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJA24	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJA25	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	975.0000	IN. XT
MJJA26	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

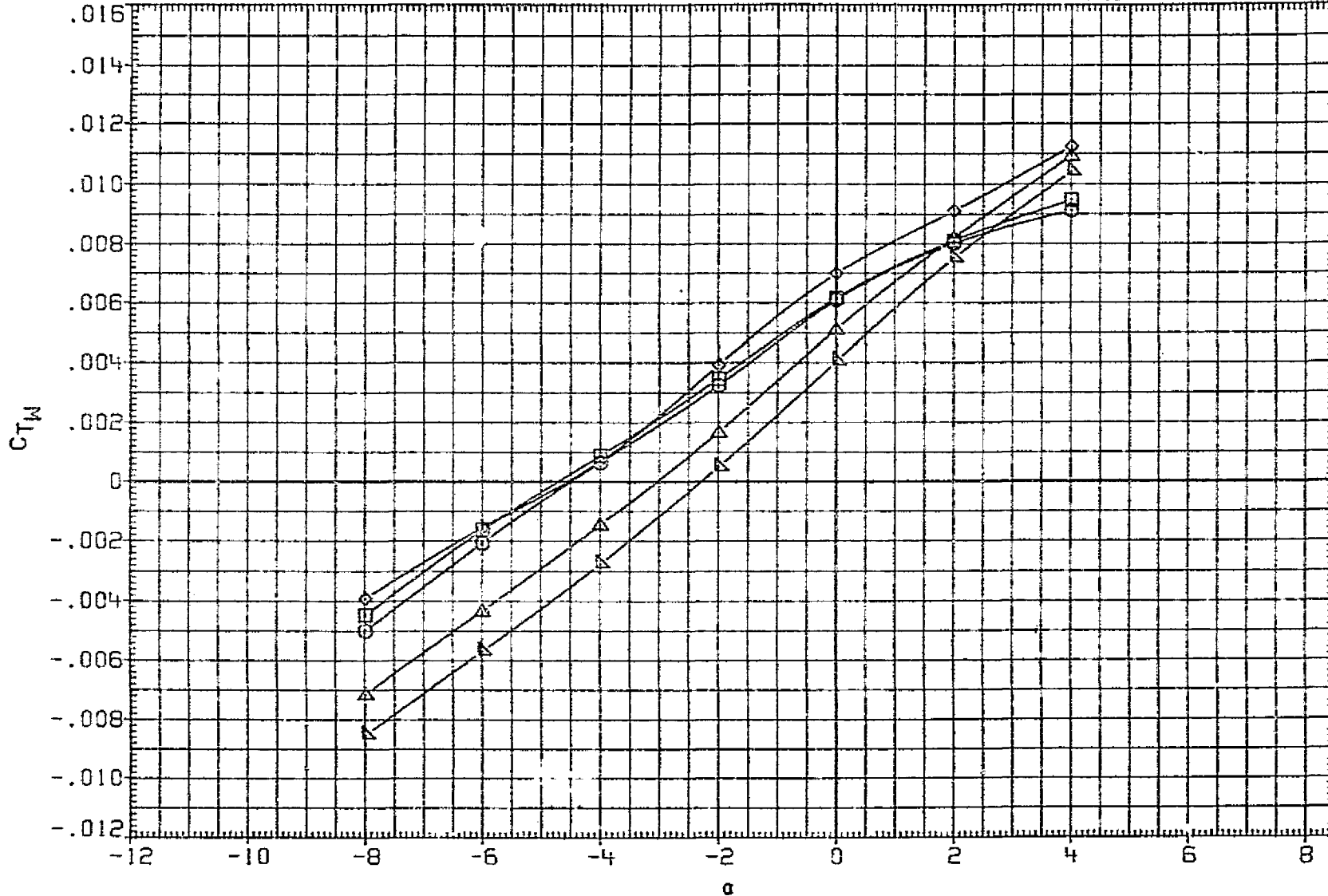


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = 1.20

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJA28	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

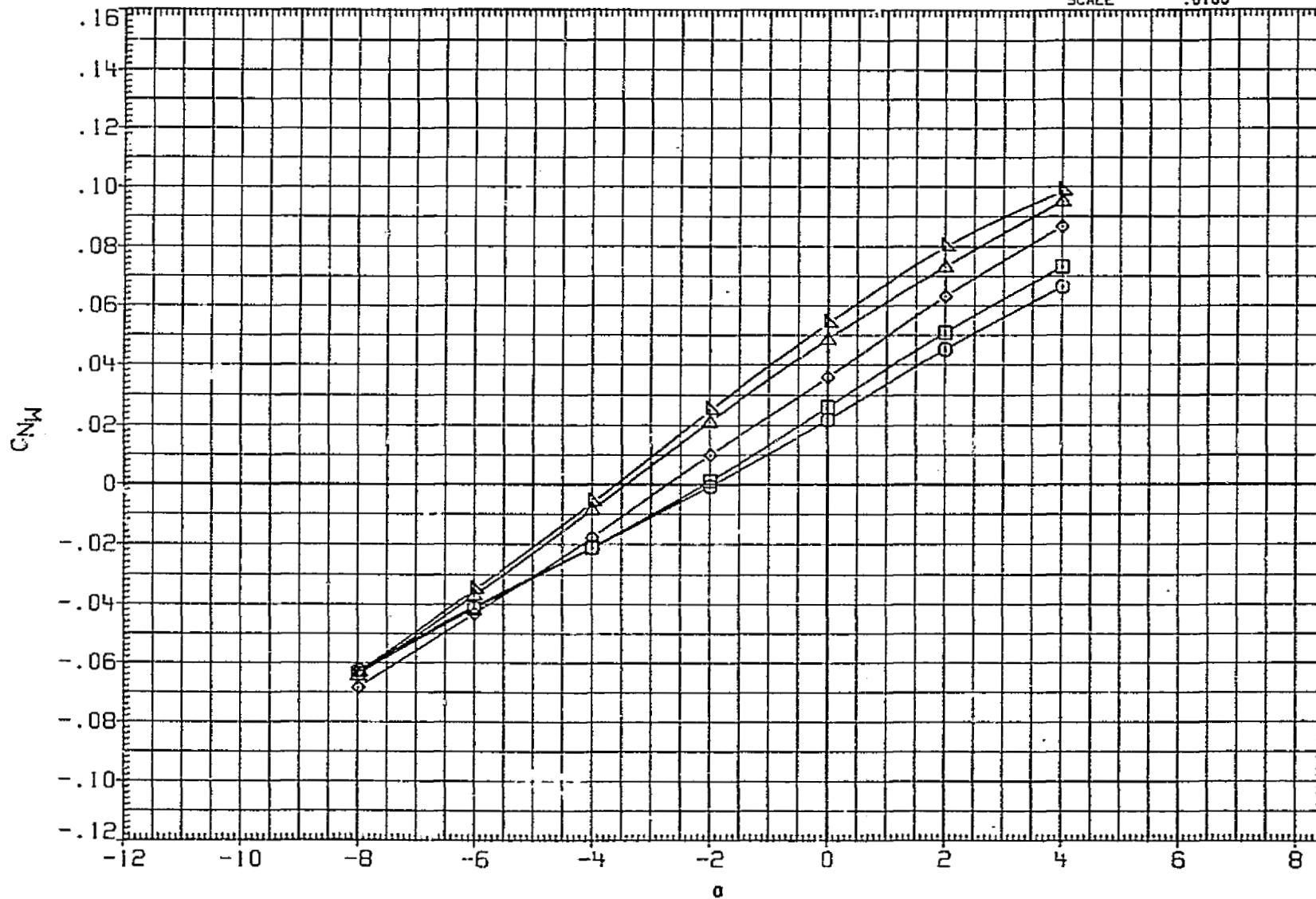


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2390.0000	50. FT.
MJJA28	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

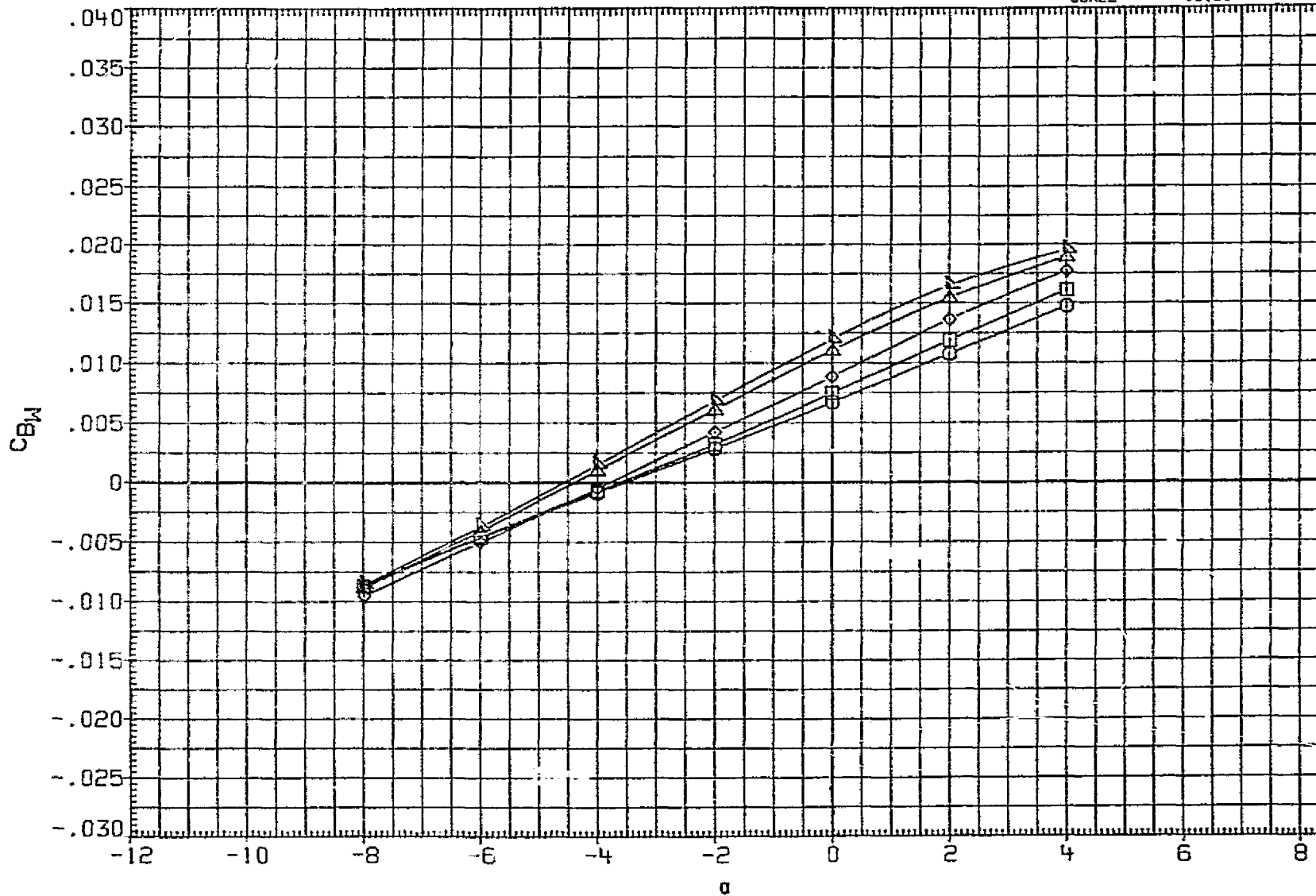


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LG	ELV-RI	ELV-RG	REFERENCE INFORMATION		
MJJA27	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ. FT.
MJJA28	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

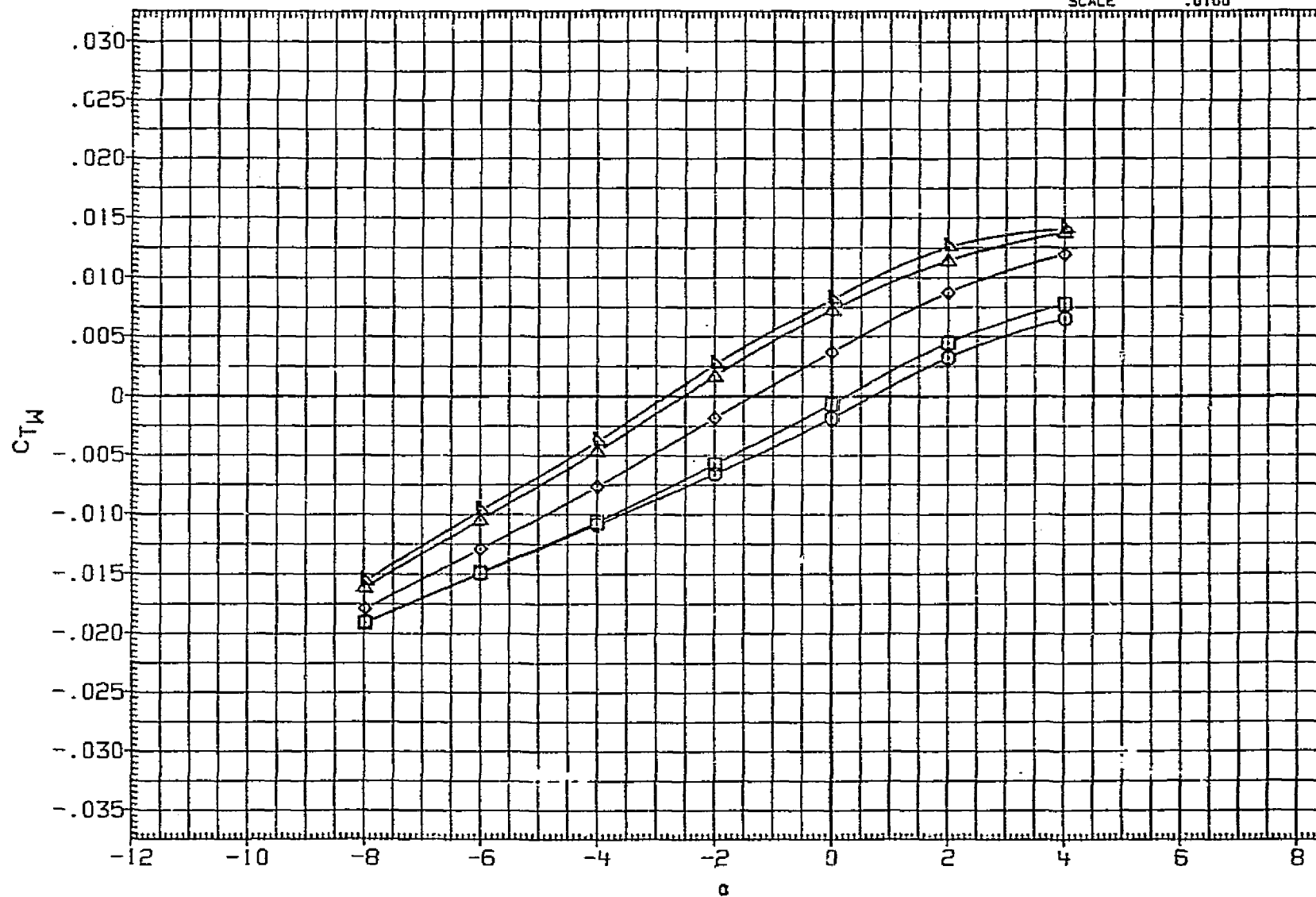


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA27	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2890.0000	EQ.FT.
MJJA28	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XHRP	976.0000	IN. XT
MJJA31	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

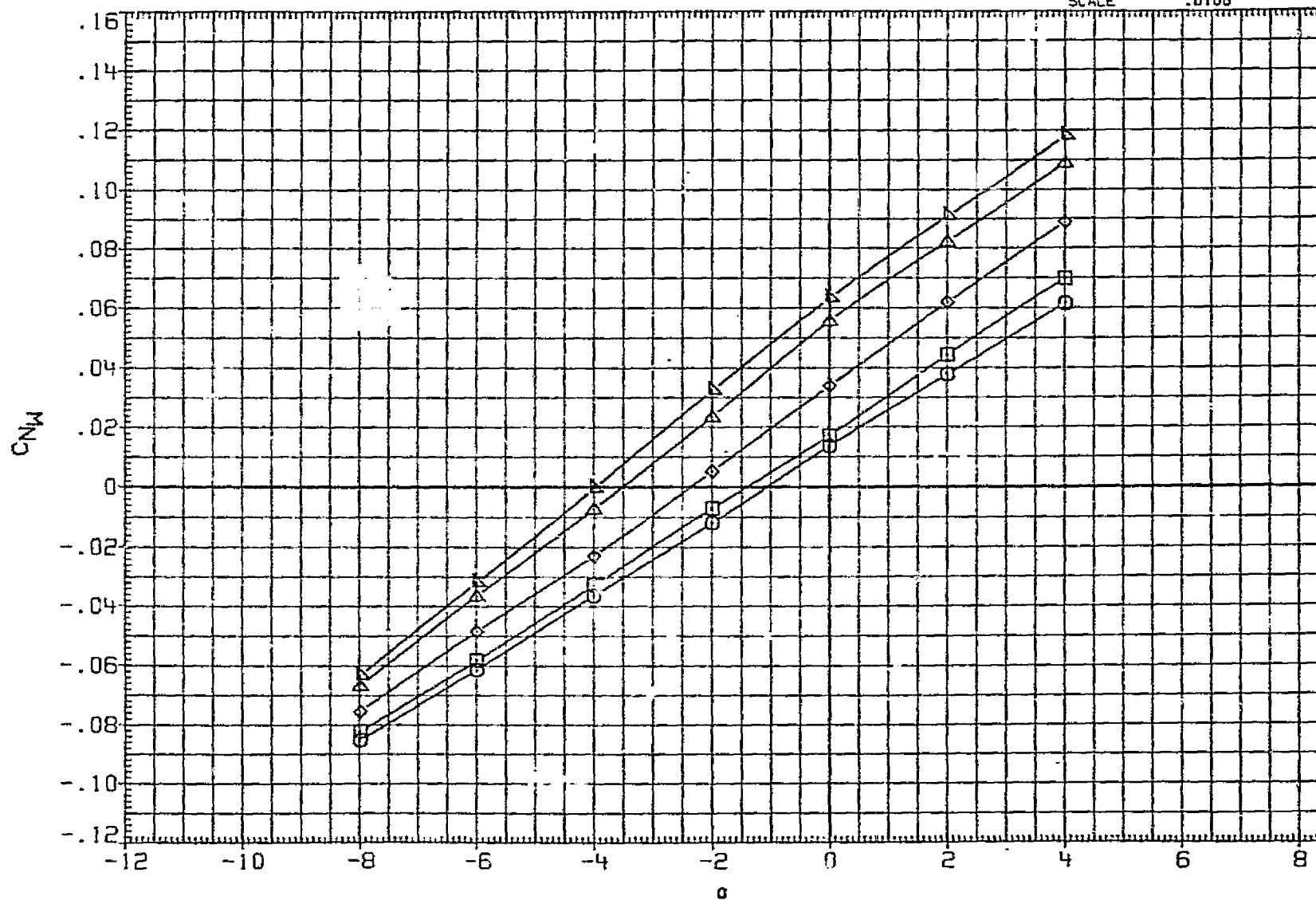


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	97F.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

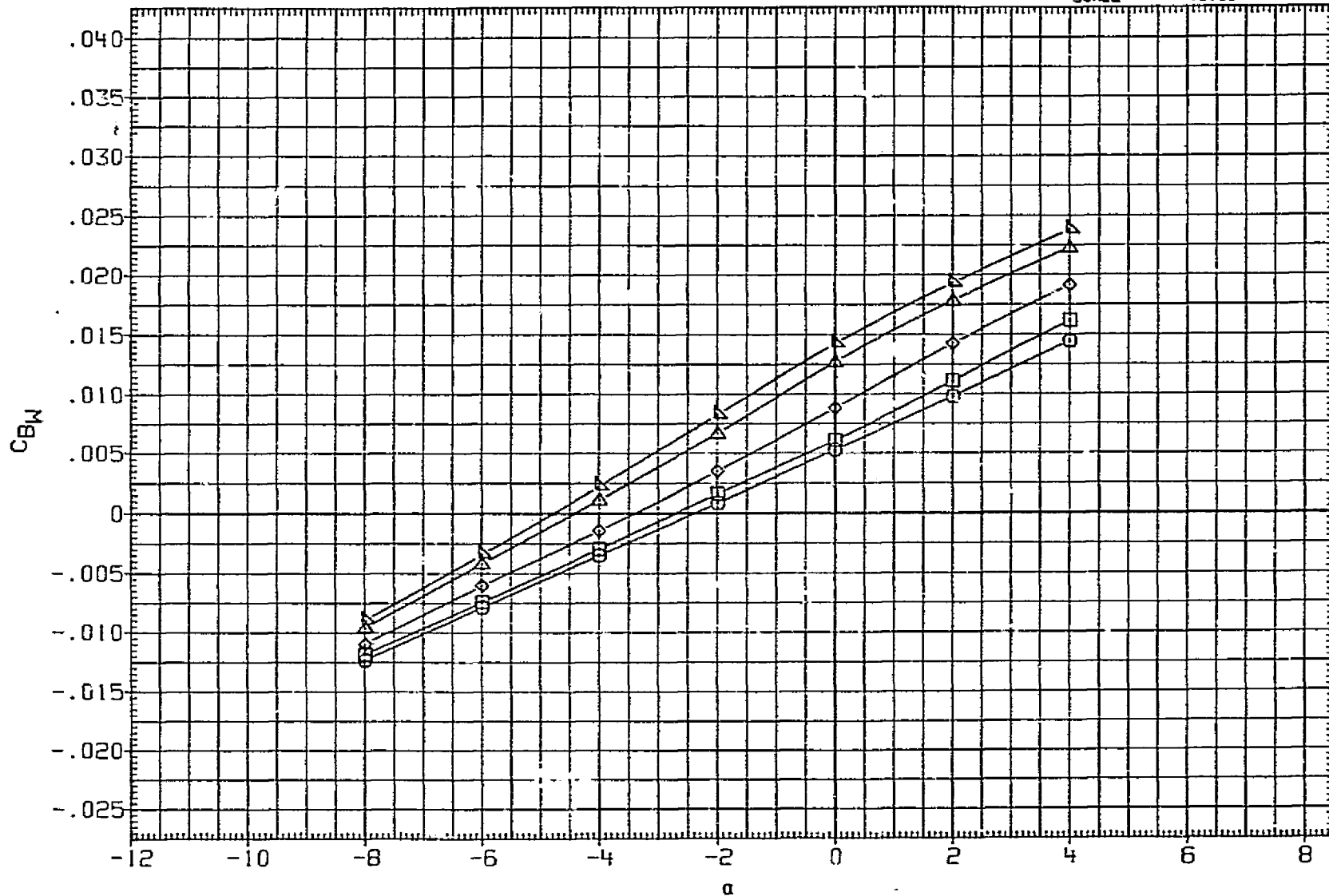


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2590.0000	50. FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

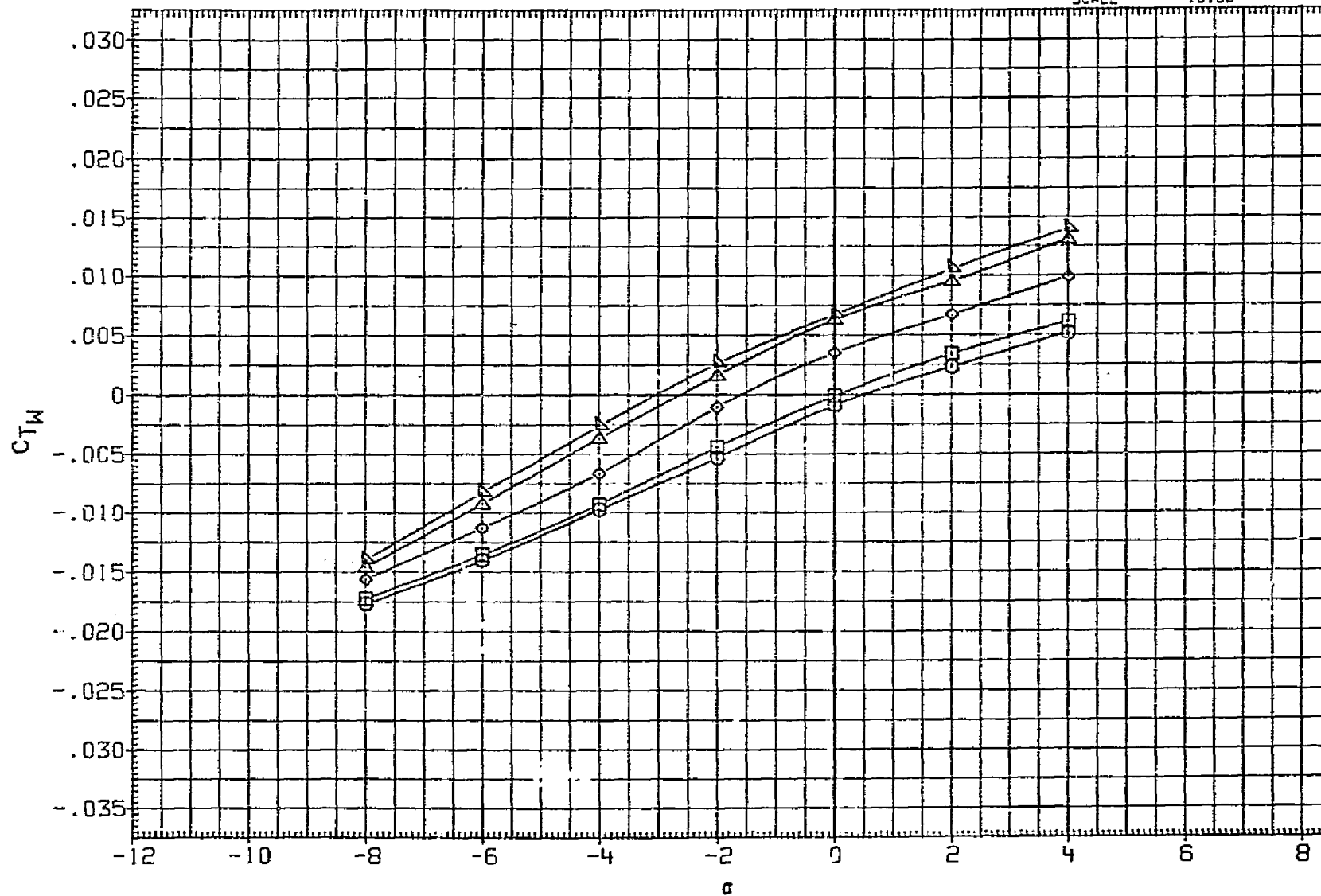


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50.FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

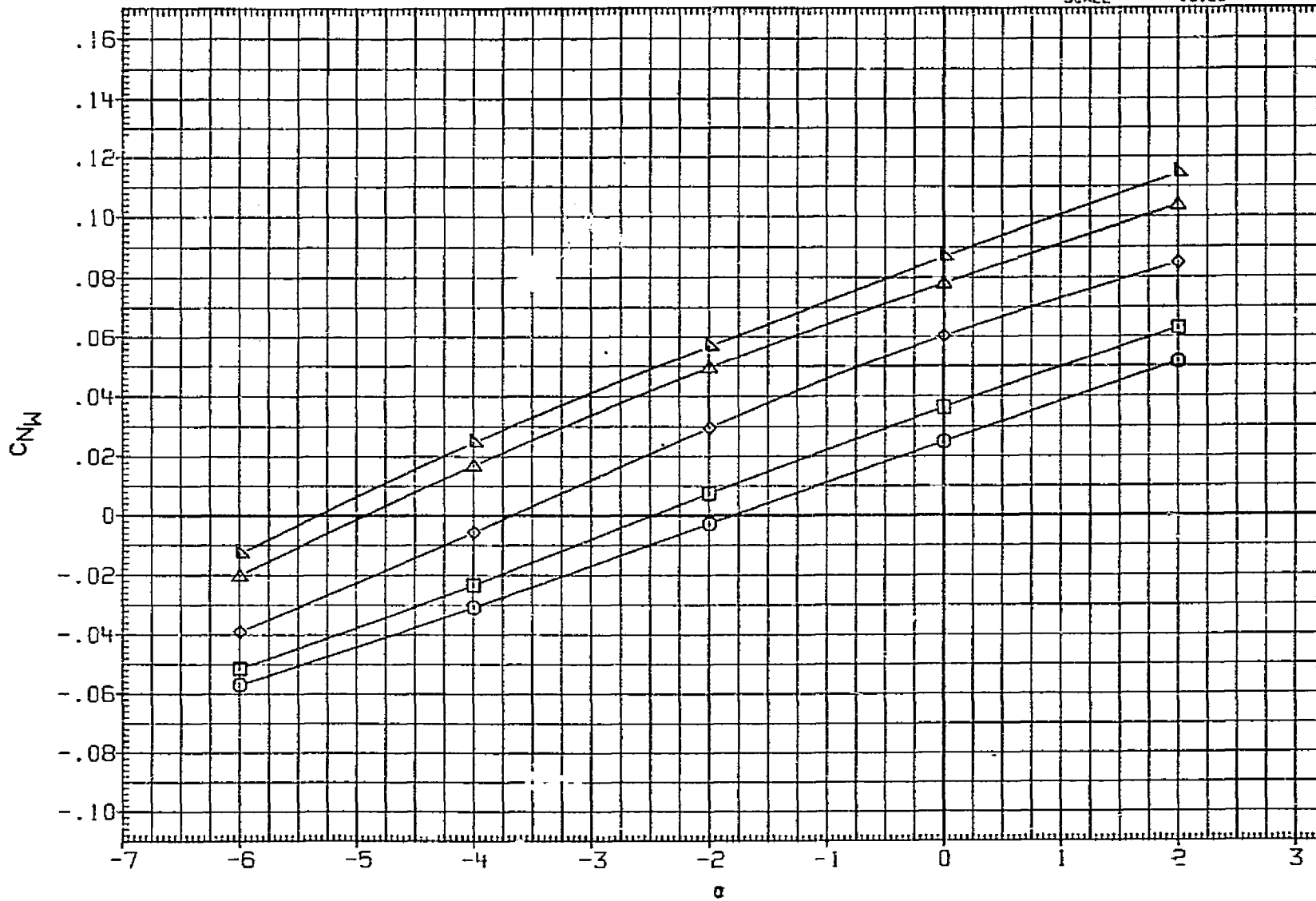


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ. FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

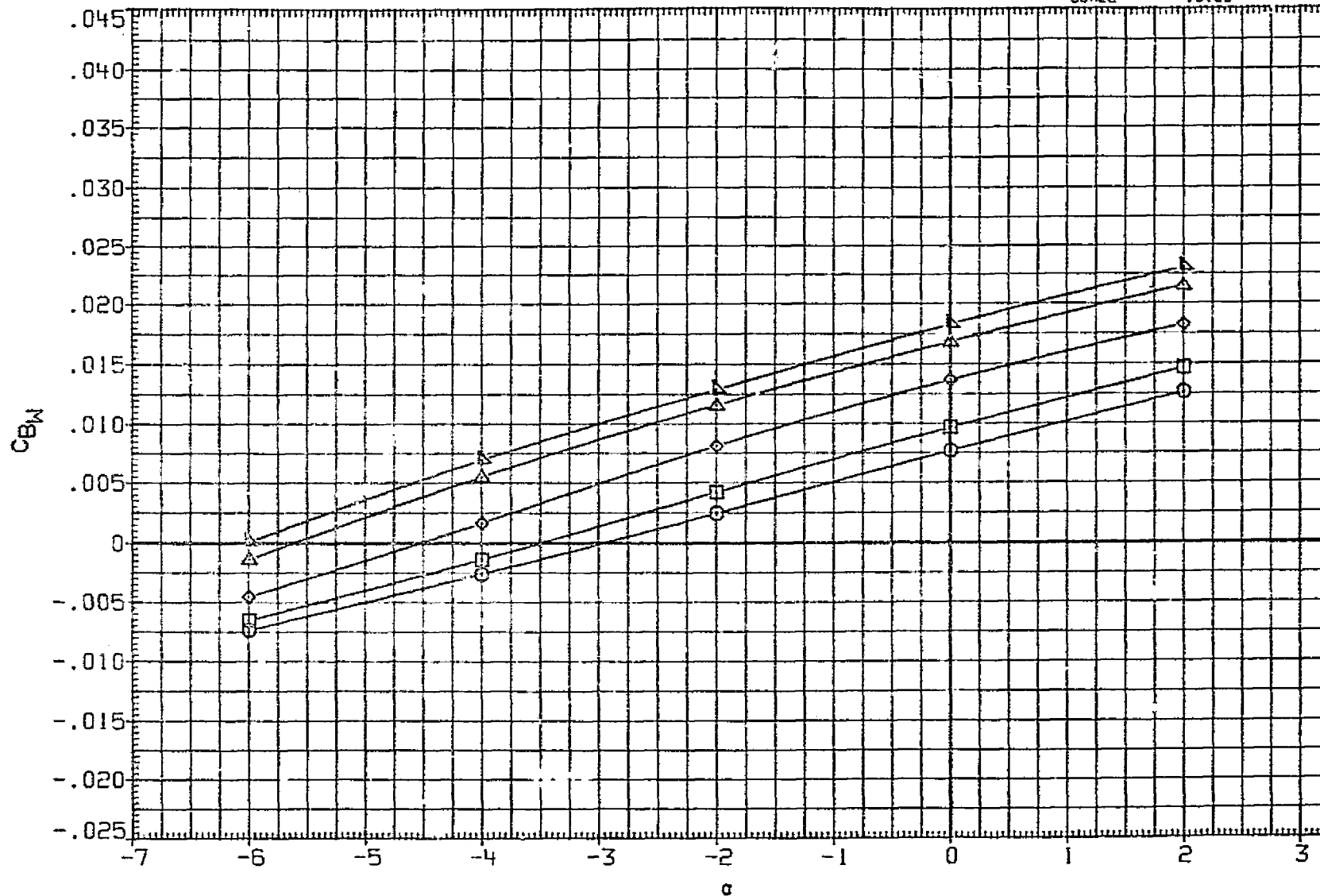


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50.FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMPP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

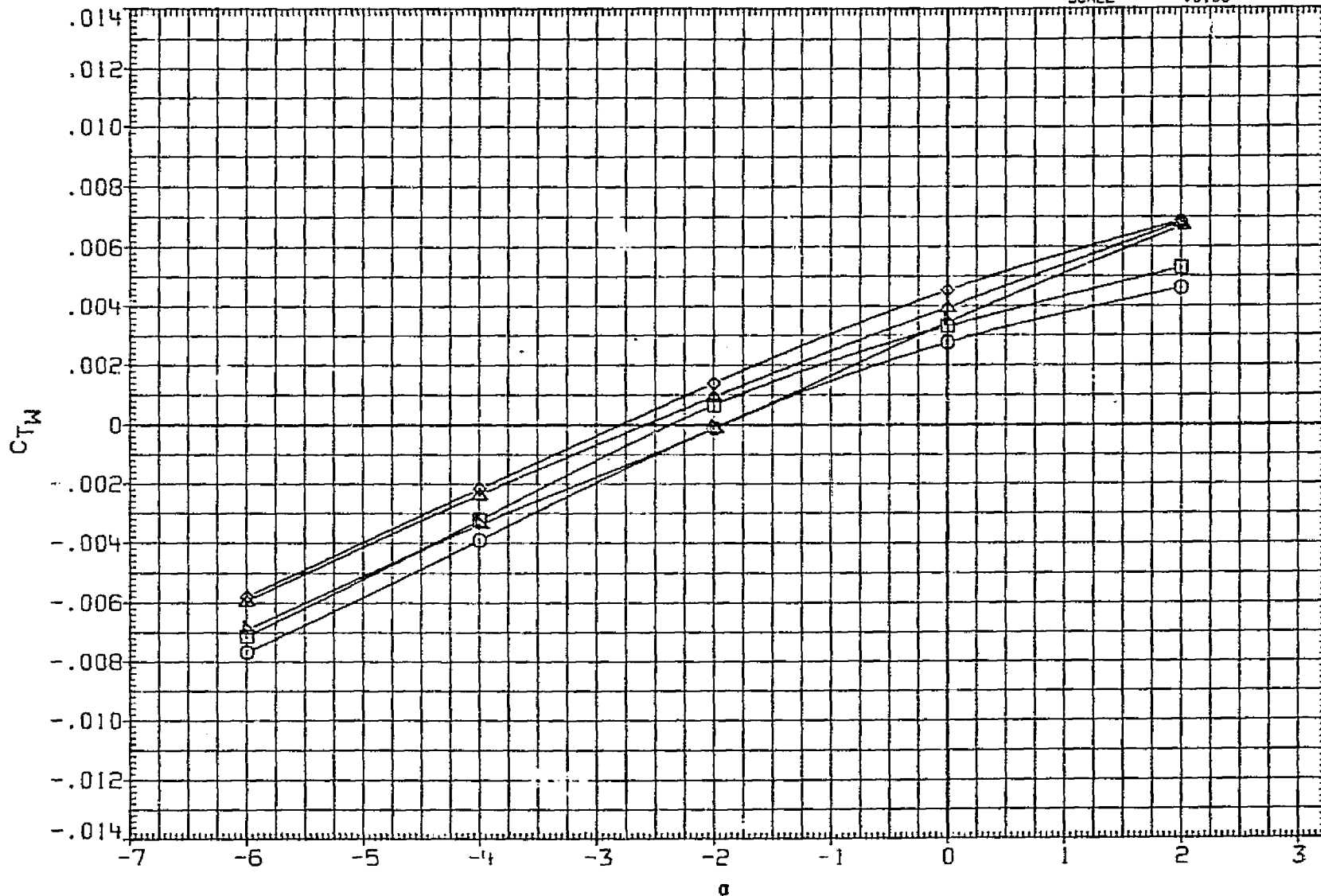


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-R0	REFERENCE INFORMATION:		
MJJA27	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJA28	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	YMRP	976.0000	IN. XT
MJJA31	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

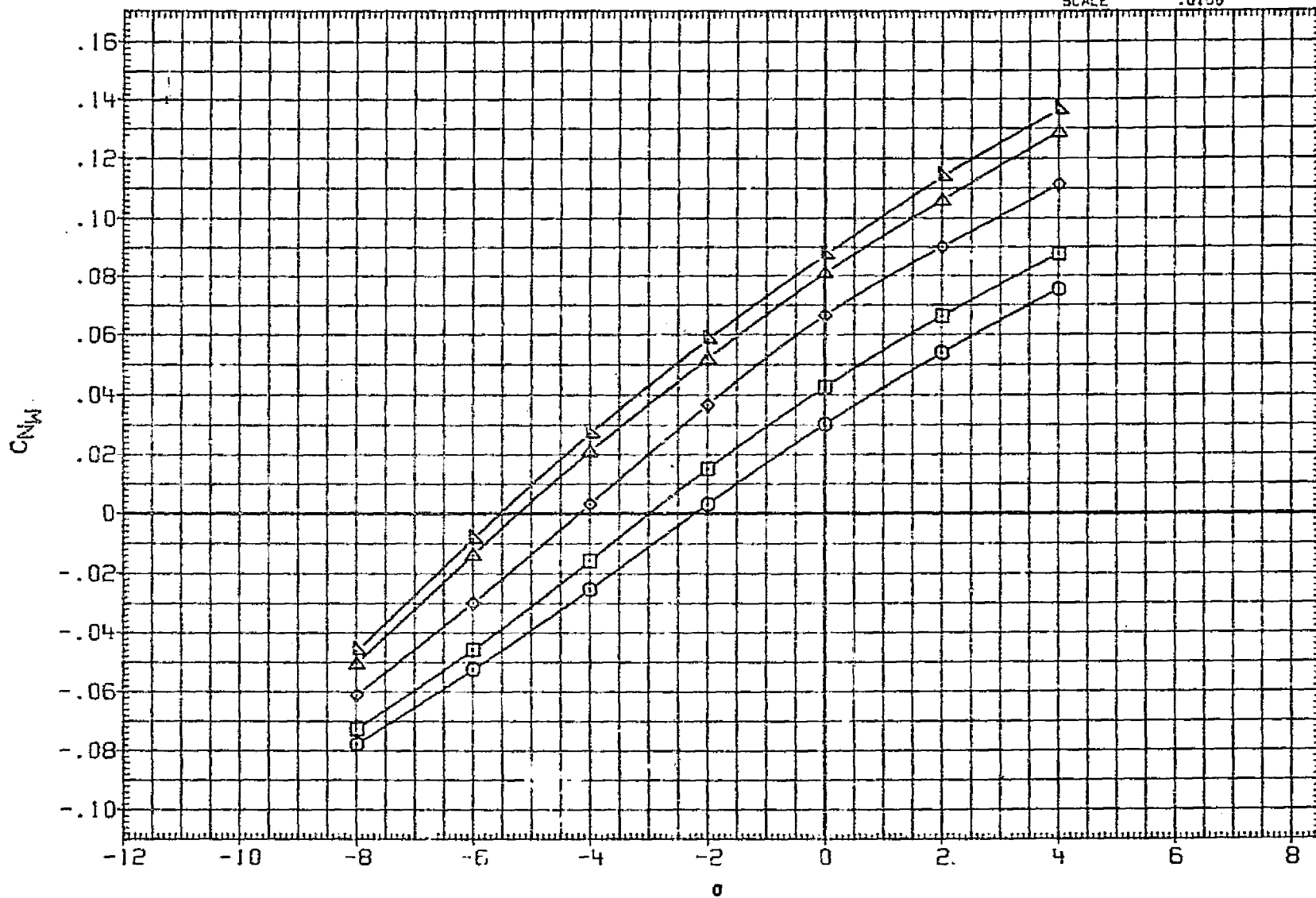


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50.FT.
MJJA28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJA29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJA30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJA31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

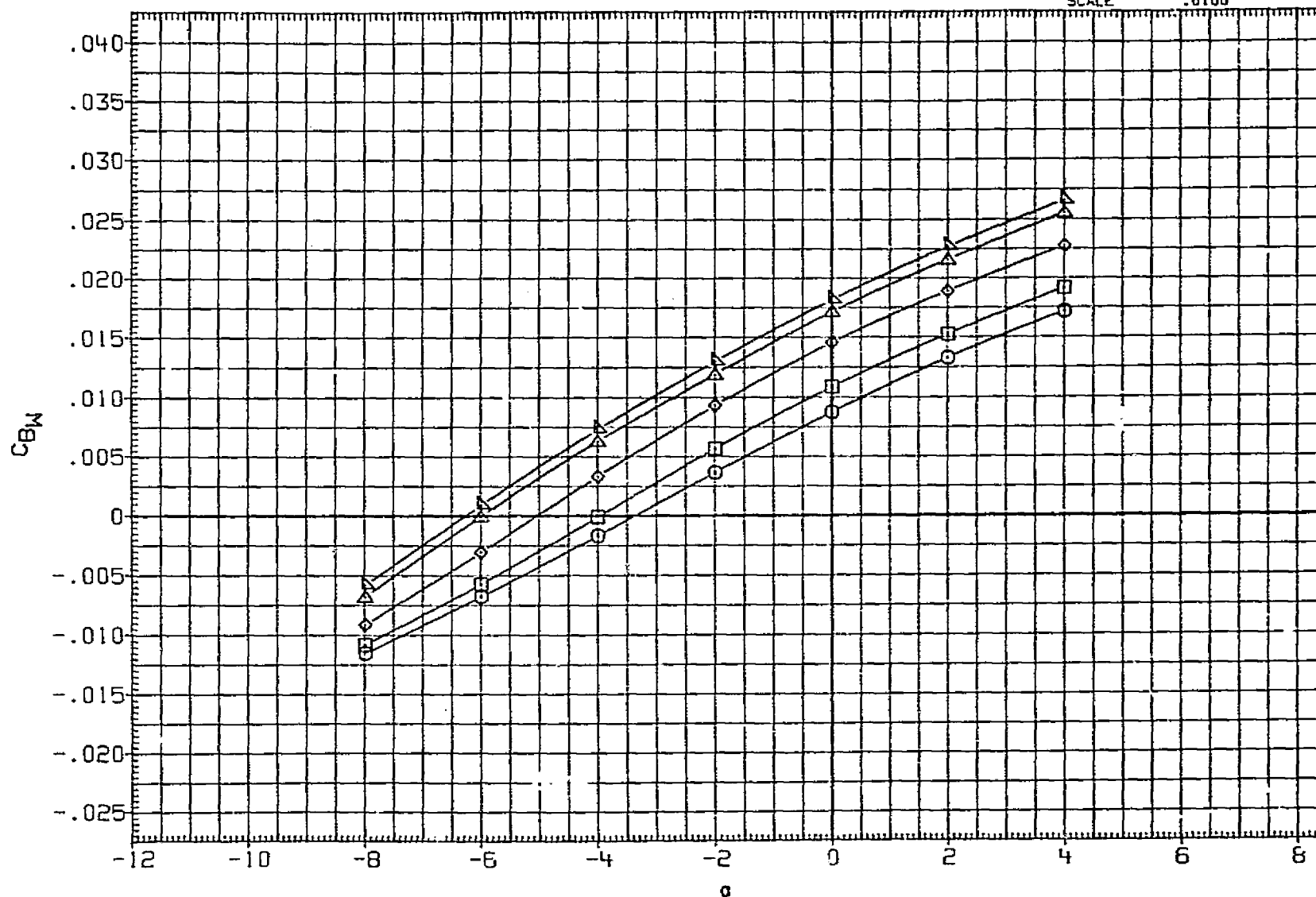


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA27	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF 2690.0000 SQ.FT.
MJJA28	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF 1290.3000 INCHES
MJJA29	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF 1290.3000 INCHES
MJJA30	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP 976.0000 IN. XT
MJJA31	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

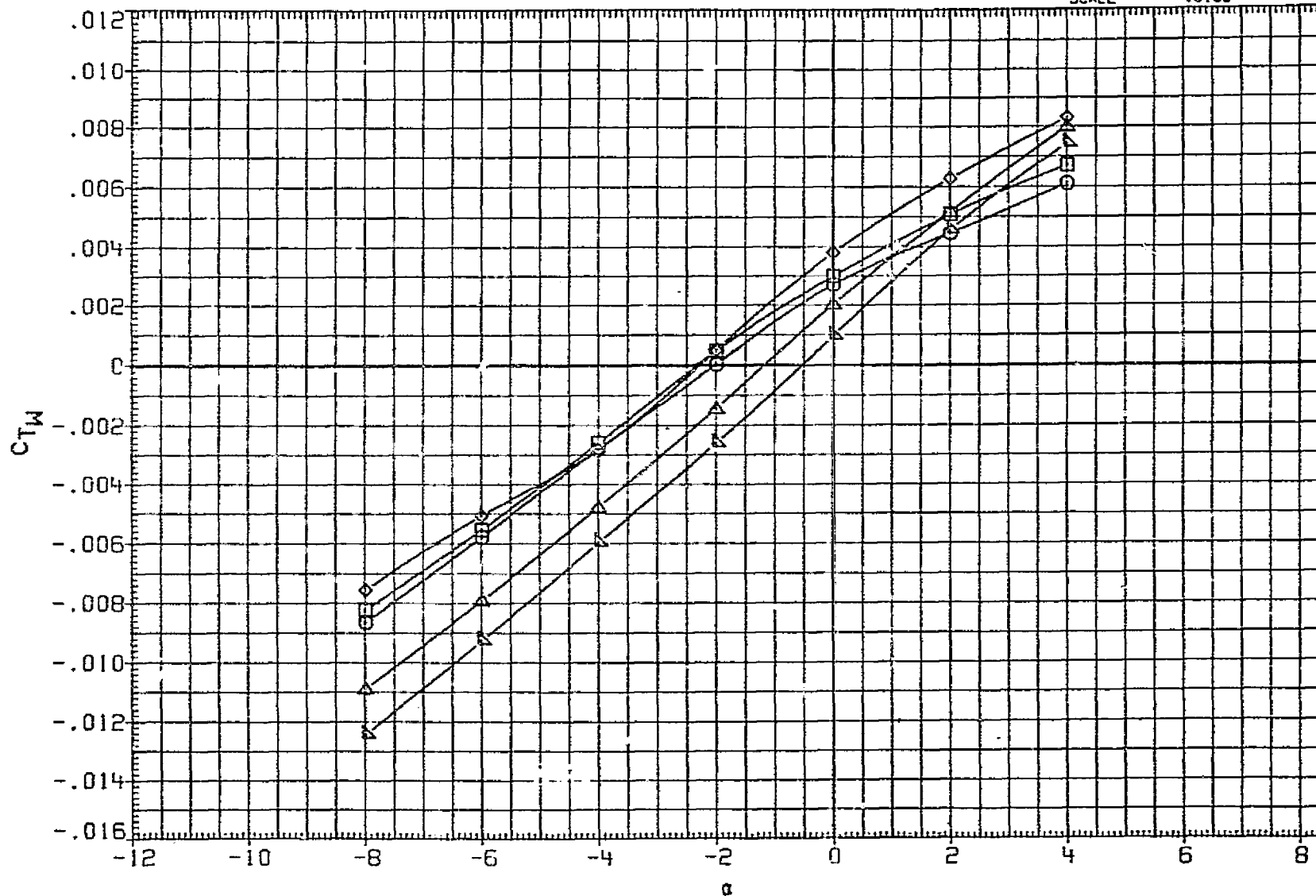


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJA33	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

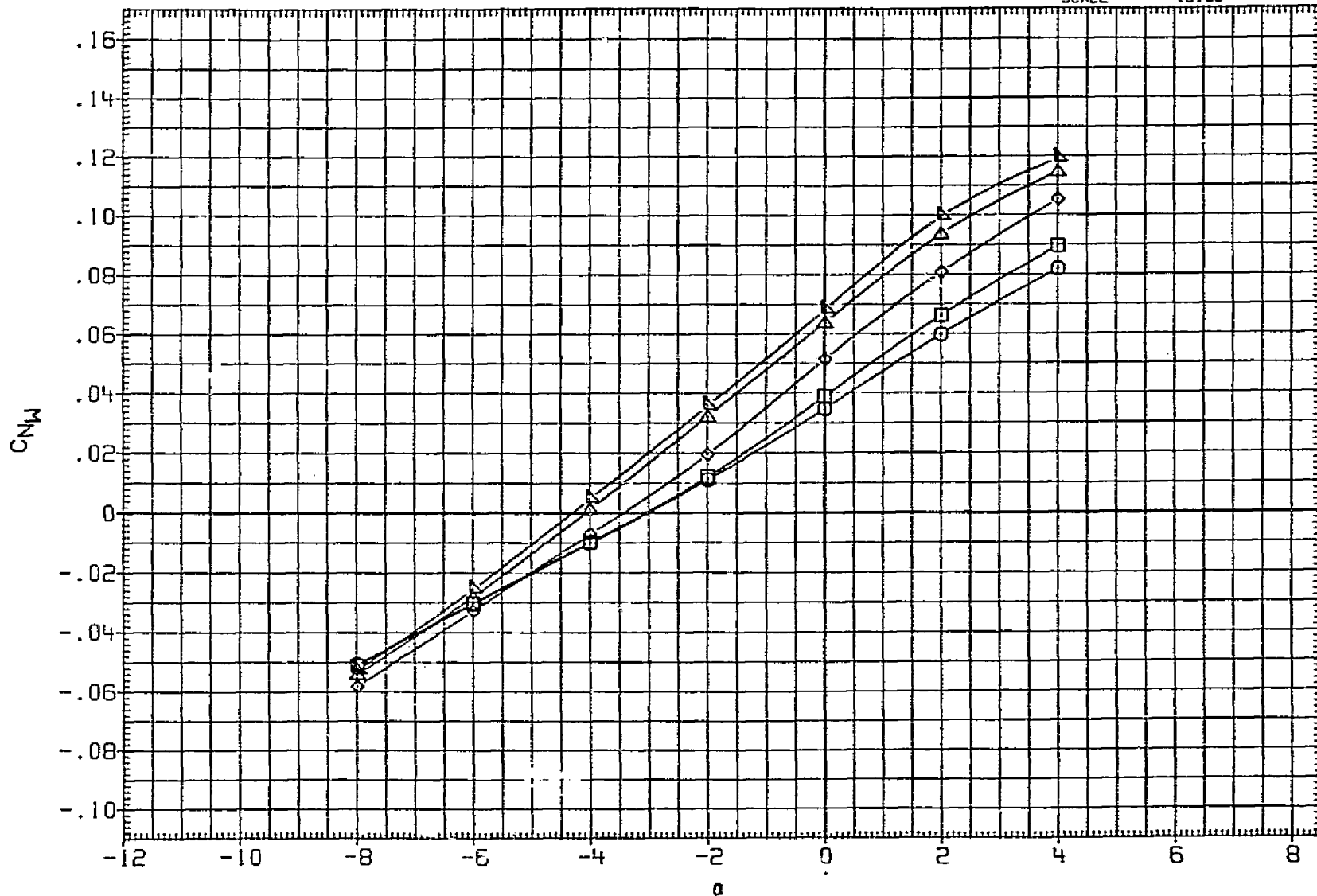


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

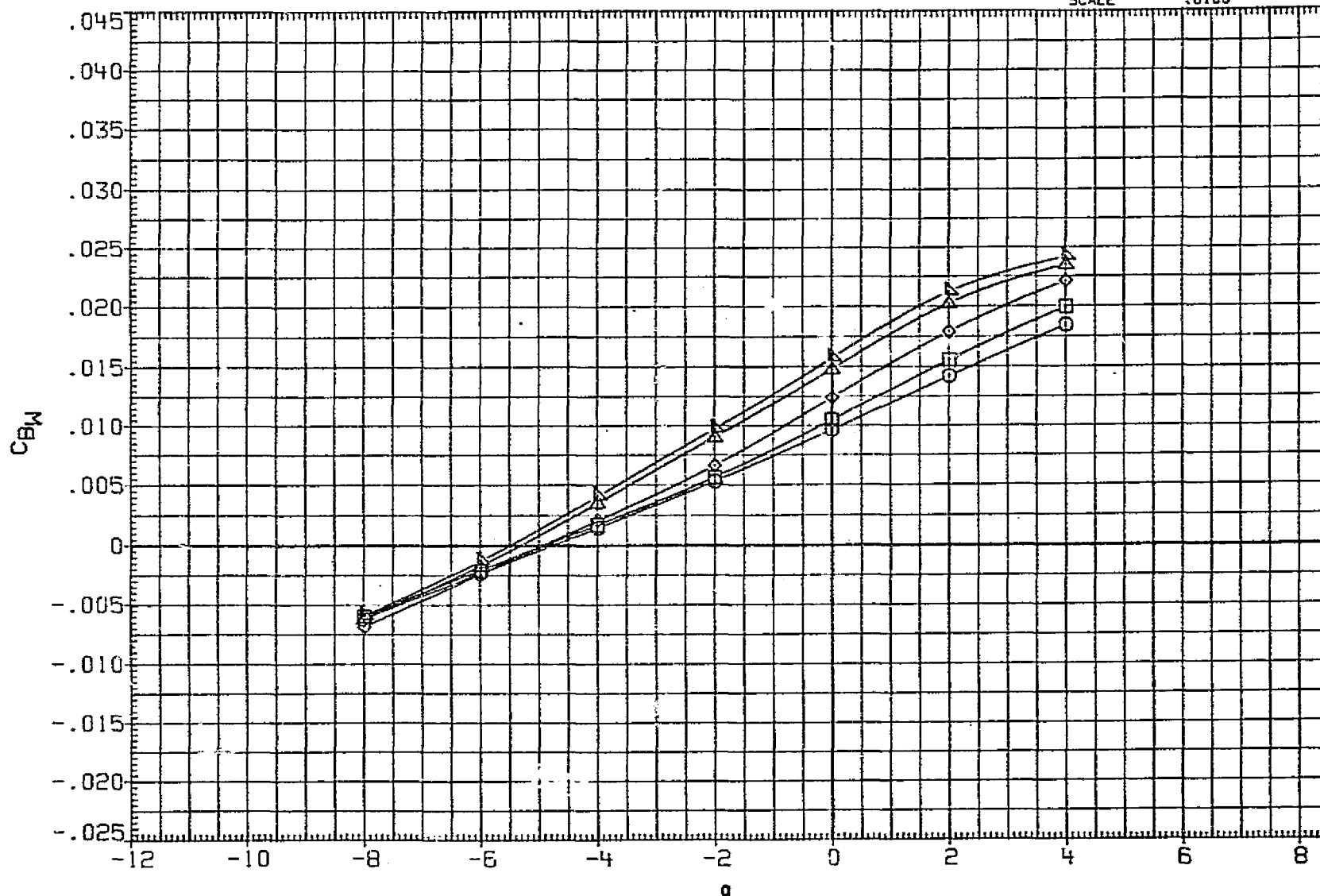


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-8.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1296.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

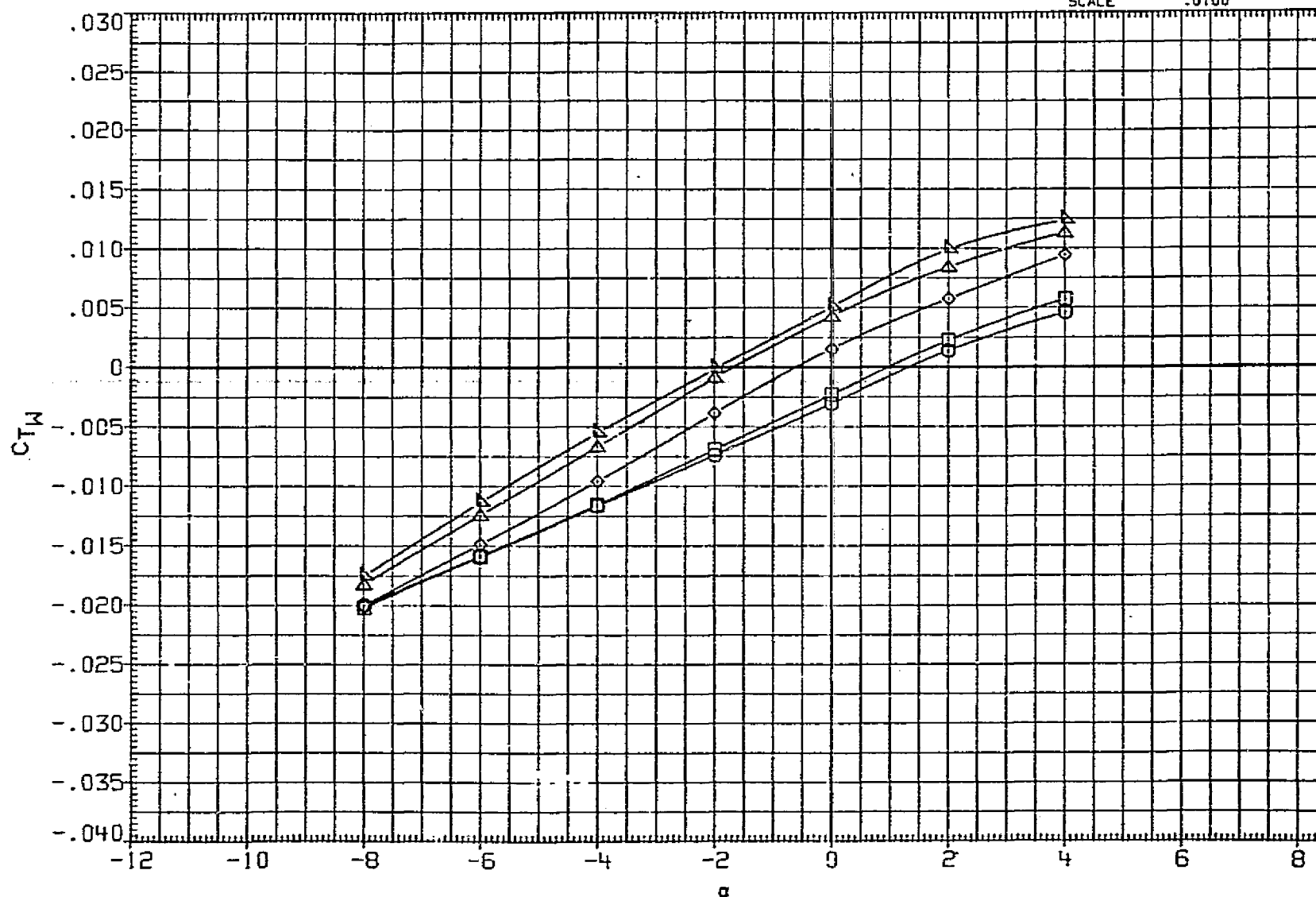


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA32	□	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	3.000	12.000	9.000	BREF	2890.0000	SO.FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	△	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

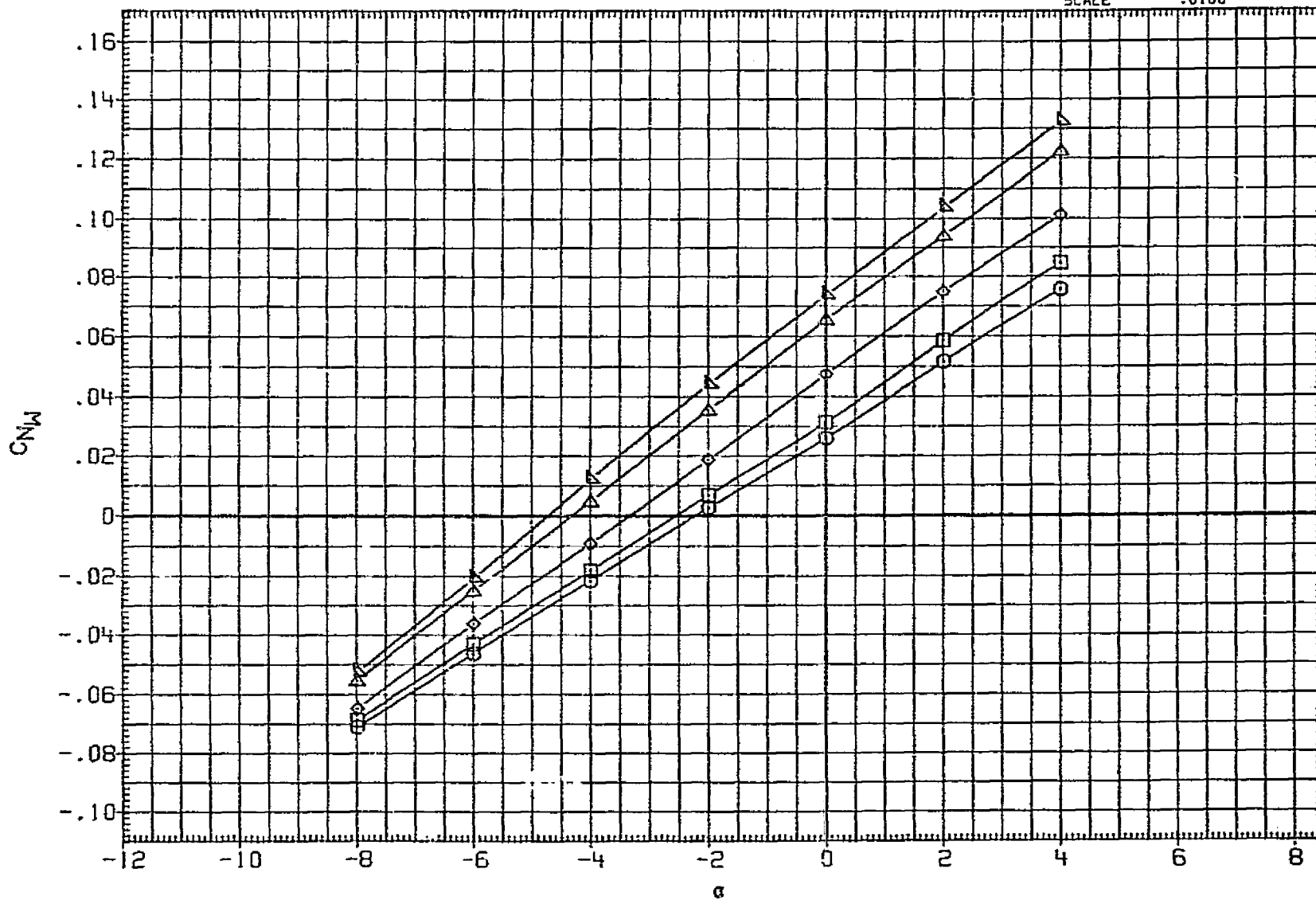


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

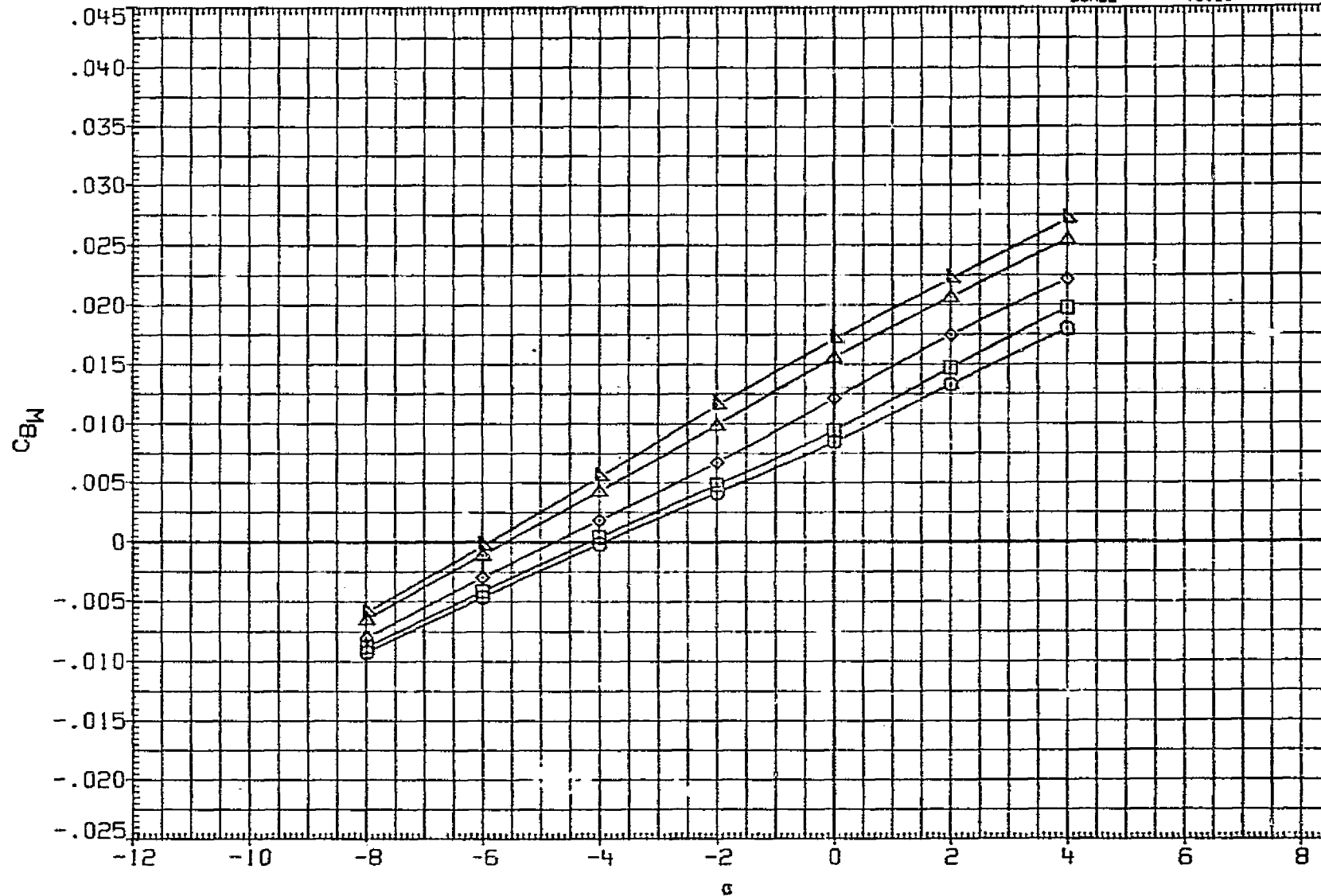


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LT	ELV-LQ	ELV-RI	ELV-RQ	REFERENCE INFORMATION
MJJA32	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	0.000	BRFP 6901.0000 IN. FT
MJJA33	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	BRFP 1220.0000 IN. FT
MJJA34	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BRFP 1220.0000 IN. FT
MJJA35	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	YMRP 976.0000 IN. FT
MJJA36	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP .0000 IN. FT
							ZMRP 400.0000 IN. FT
							SCALE .0100

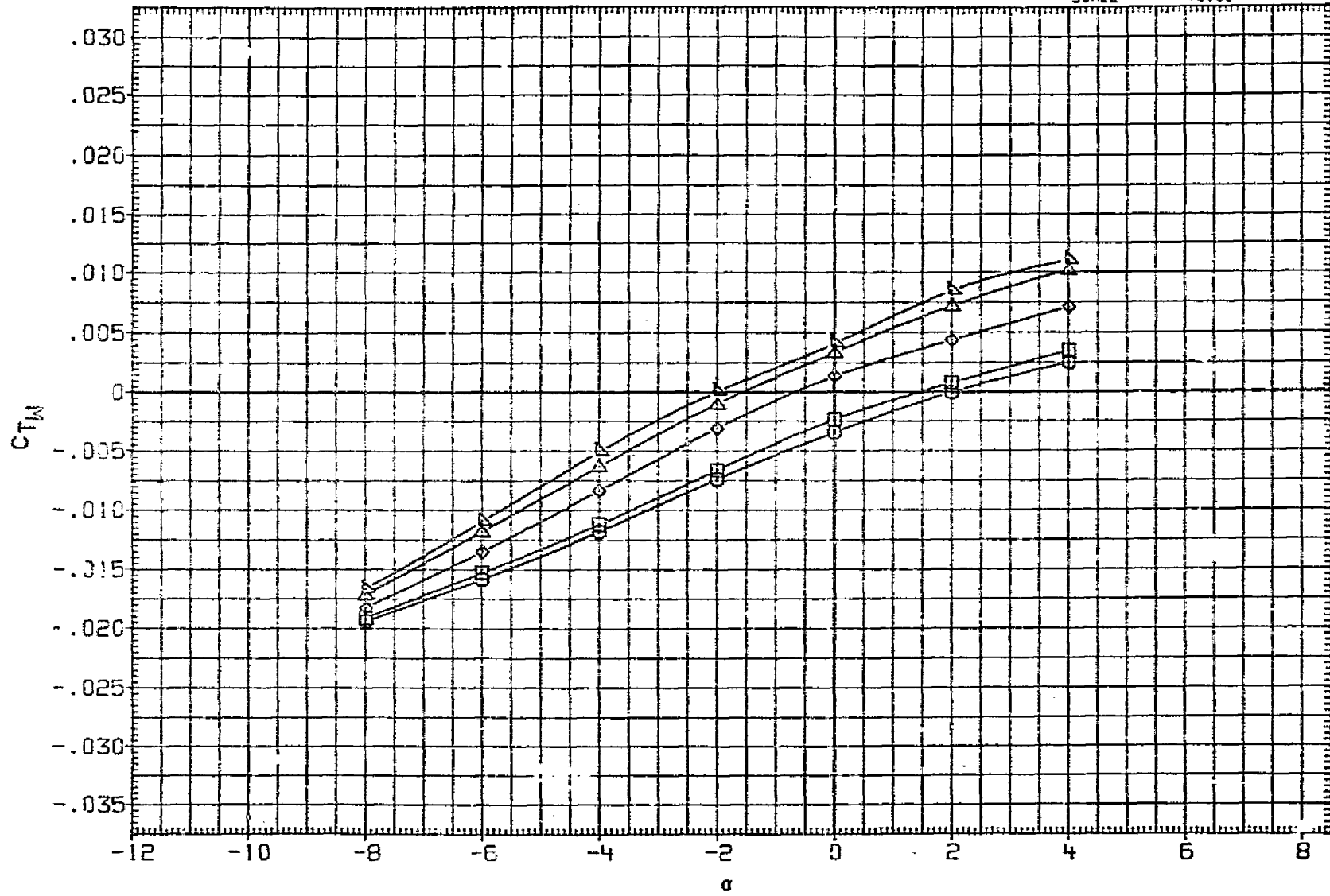


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○ LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2699.0000	50.FT.
MJJA33	□ LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇ LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△ LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽ LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.9000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

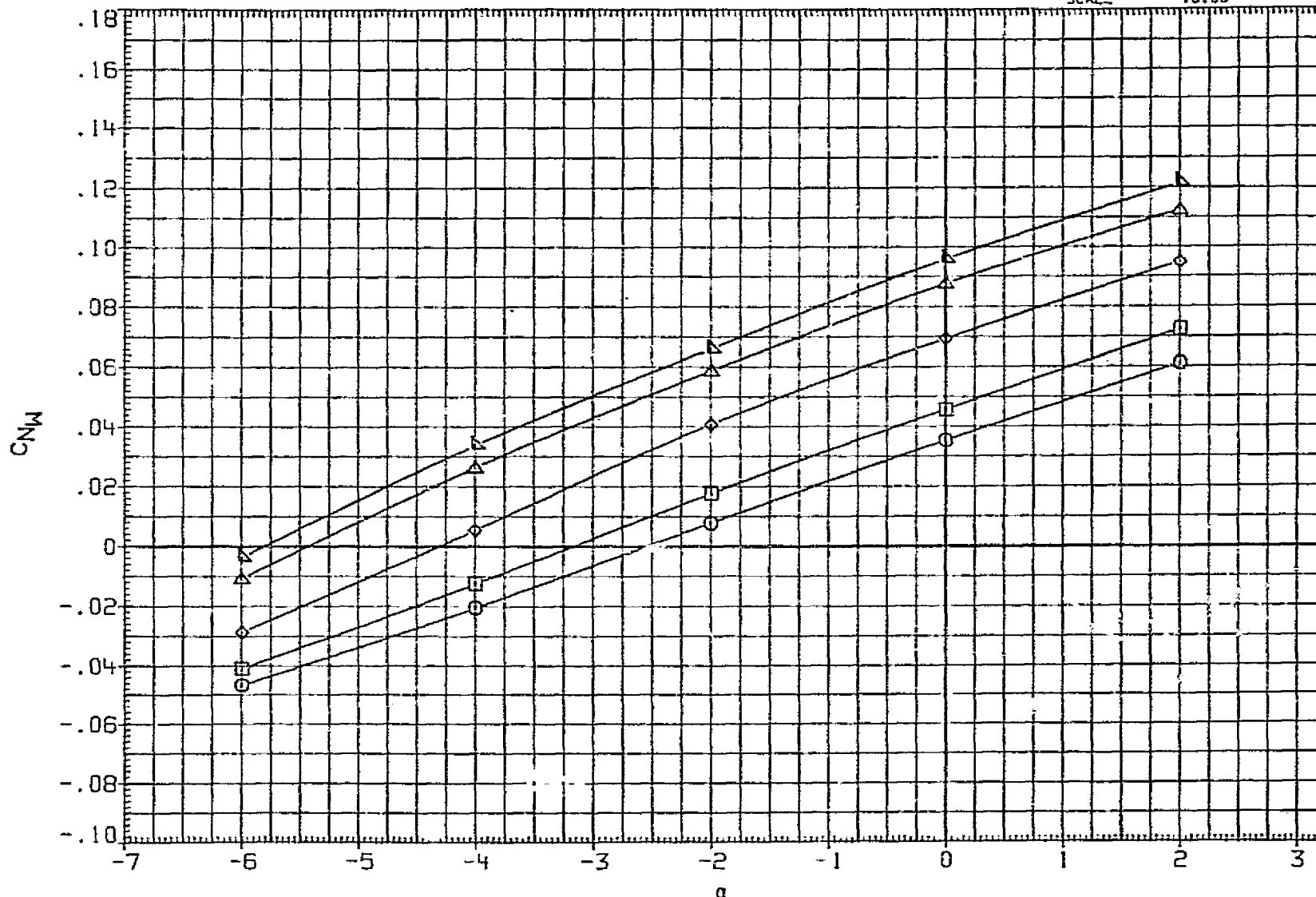


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LG	ELV-RI	ELV-RD	REFERENCE INFORMATION
MJJA32	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	REF 2890.0000 SCALY
MJJA33	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	REF 1890.3000 INCH
MJJA34	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	9.000	12.000	9.000	REF 1890.3000 INCH
MJJA35	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	9.000	12.000	9.000	REF 975.0000 IN. X
MJJA36	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	9.000	12.000	9.000	REF .0000 IN. Y
							REF 400.0000 IN. Z
							SCALE .0100

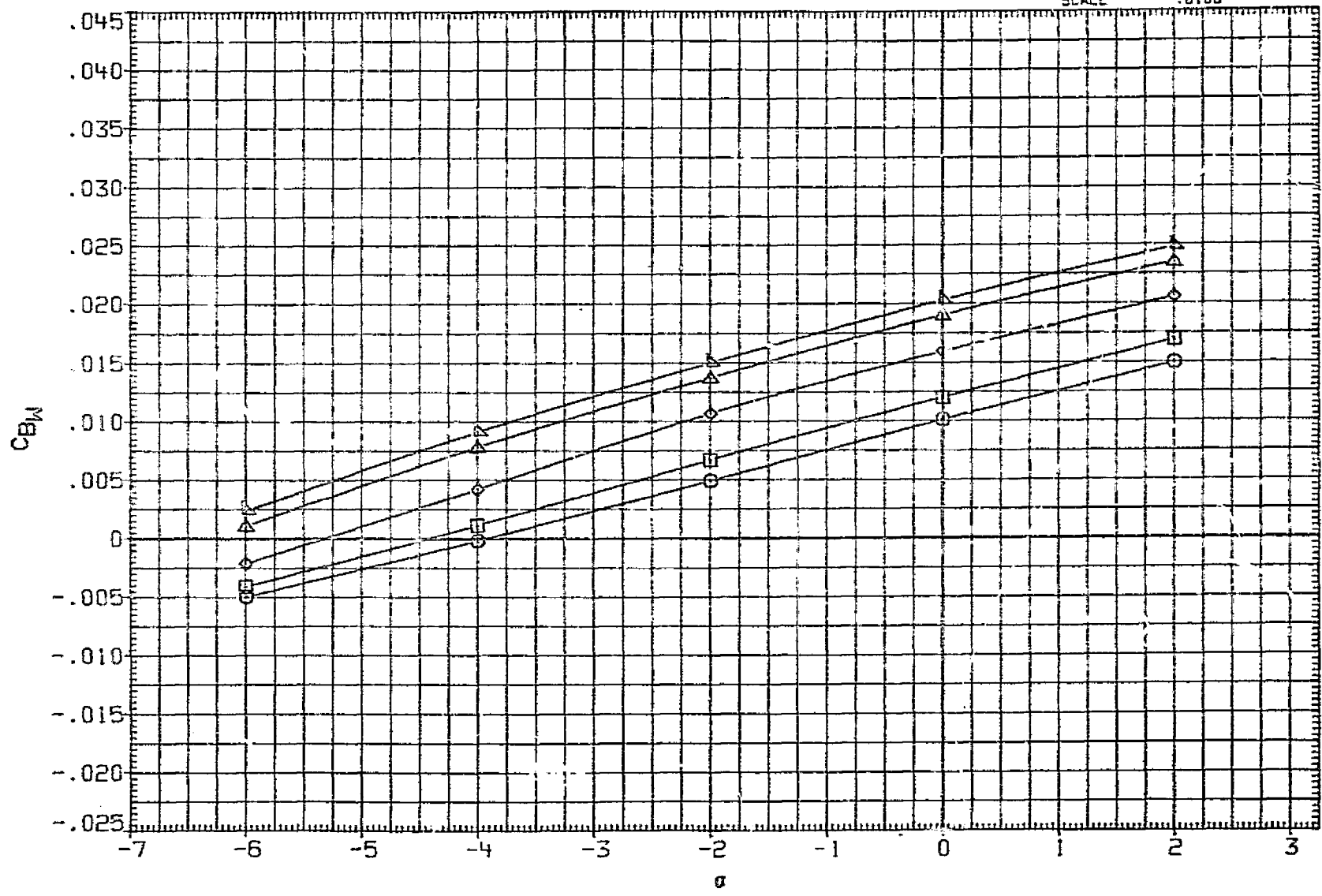


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(C)MACH = 1.15

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJA33	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	⊠	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

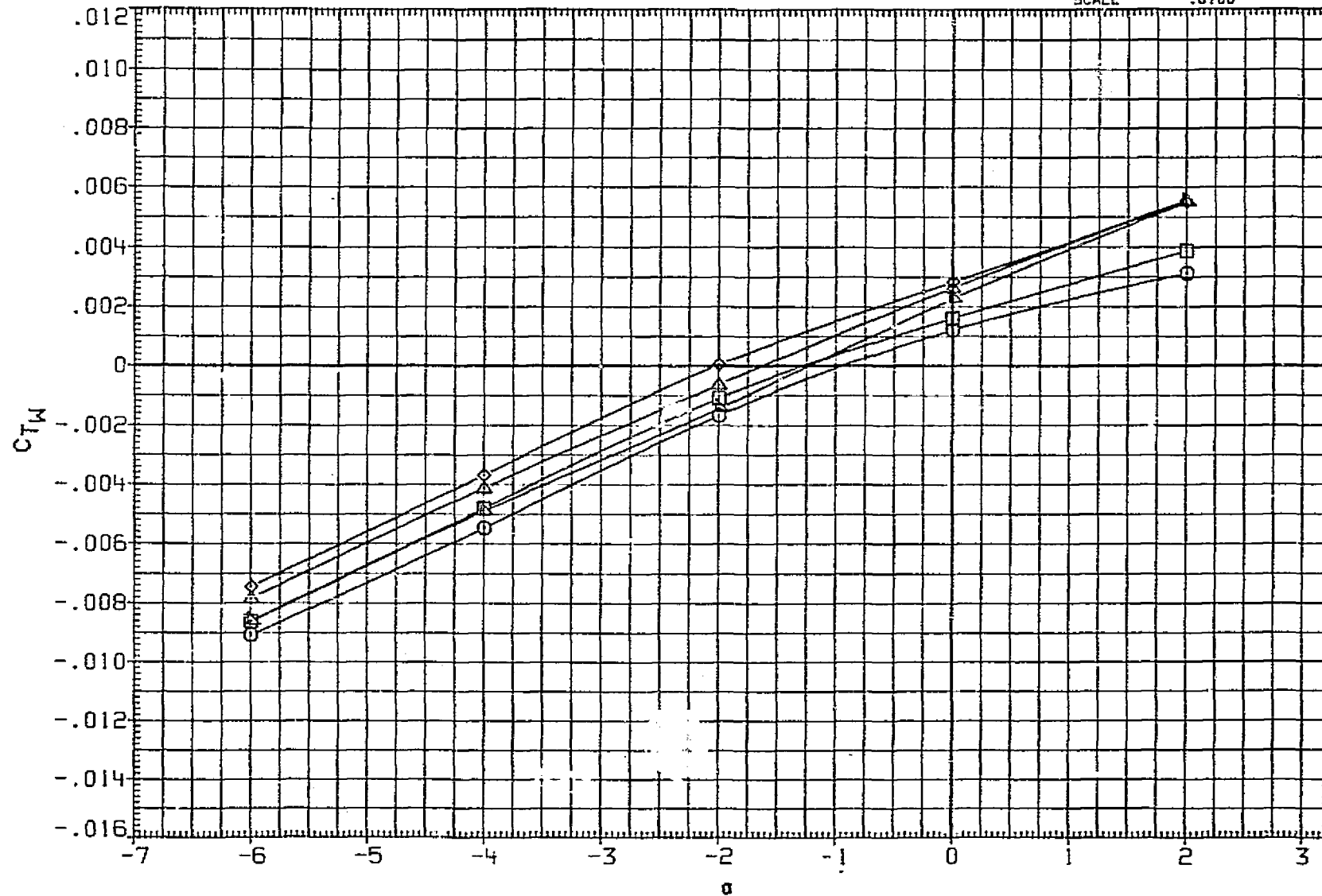


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA32	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	6693.0000	50. FT.
MJJA33	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1250.3000	INCHES
MJJA34	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1250.3000	INCHES
MJJA35	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

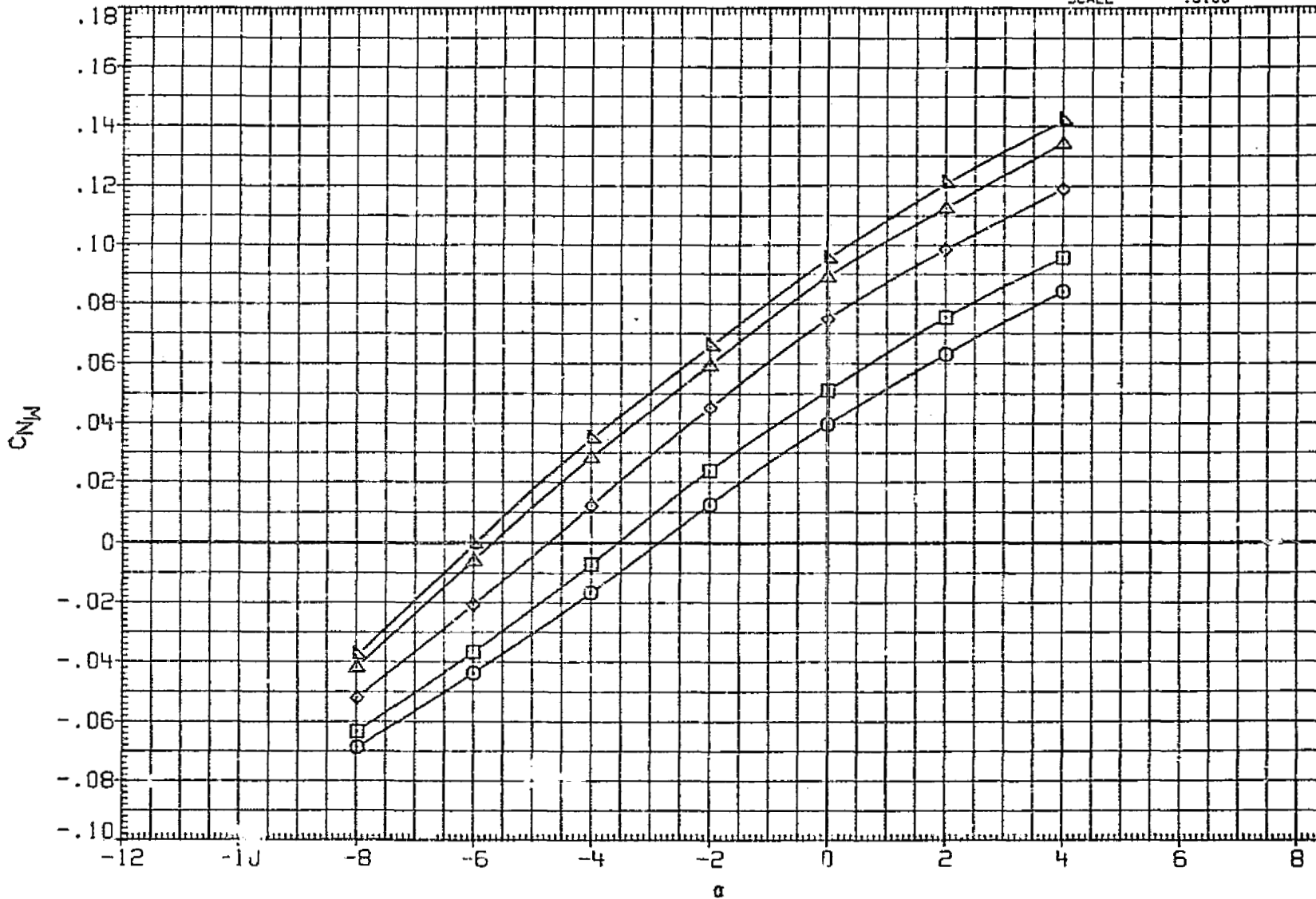


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

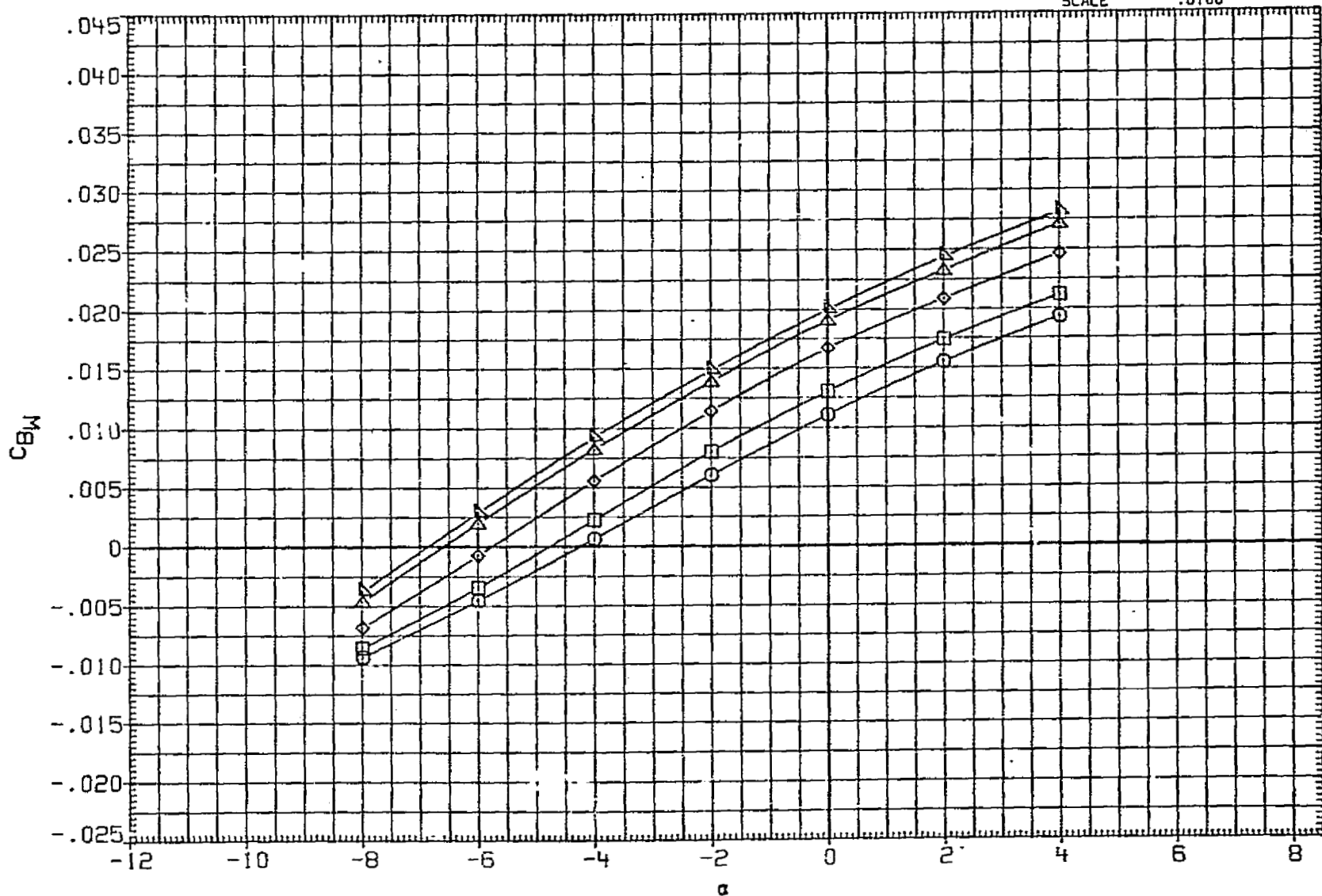


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-HI	ELV-LO	ELV-MI	ELV-RO	REFERENCE INFORMATION
MJJA32	○	LARC 8FT TPT 749 (1A93) OISAT130	-6.000	12.000	9.000	12.000	9.000	BREF 2850.0000 50. FT.
MJJA33	□	LARC 8FT TPT 749 (1A93) OISAT130	-4.000	12.000	9.000	12.000	9.000	LREF 1290.2000 INCHES
MJJA34	◇	LARC 8FT TPT 749 (1A93) OISAT130	.000	12.000	9.000	12.000	9.000	BREF 1290.3000 INCHES
MJJA35	△	LARC 8FT TPT 749 (1A93) OISAT130	4.000	12.000	9.000	12.000	9.000	XMRP 976.0000 IN. XT
MJJA36	▽	LARC 8FT TPT 749 (1A93) OISAT130	6.000	12.000	9.000	12.000	9.000	ZMRP .6000 IN. YT
								ZMPP 400.0000 IN. ZT
								SCALE .0100

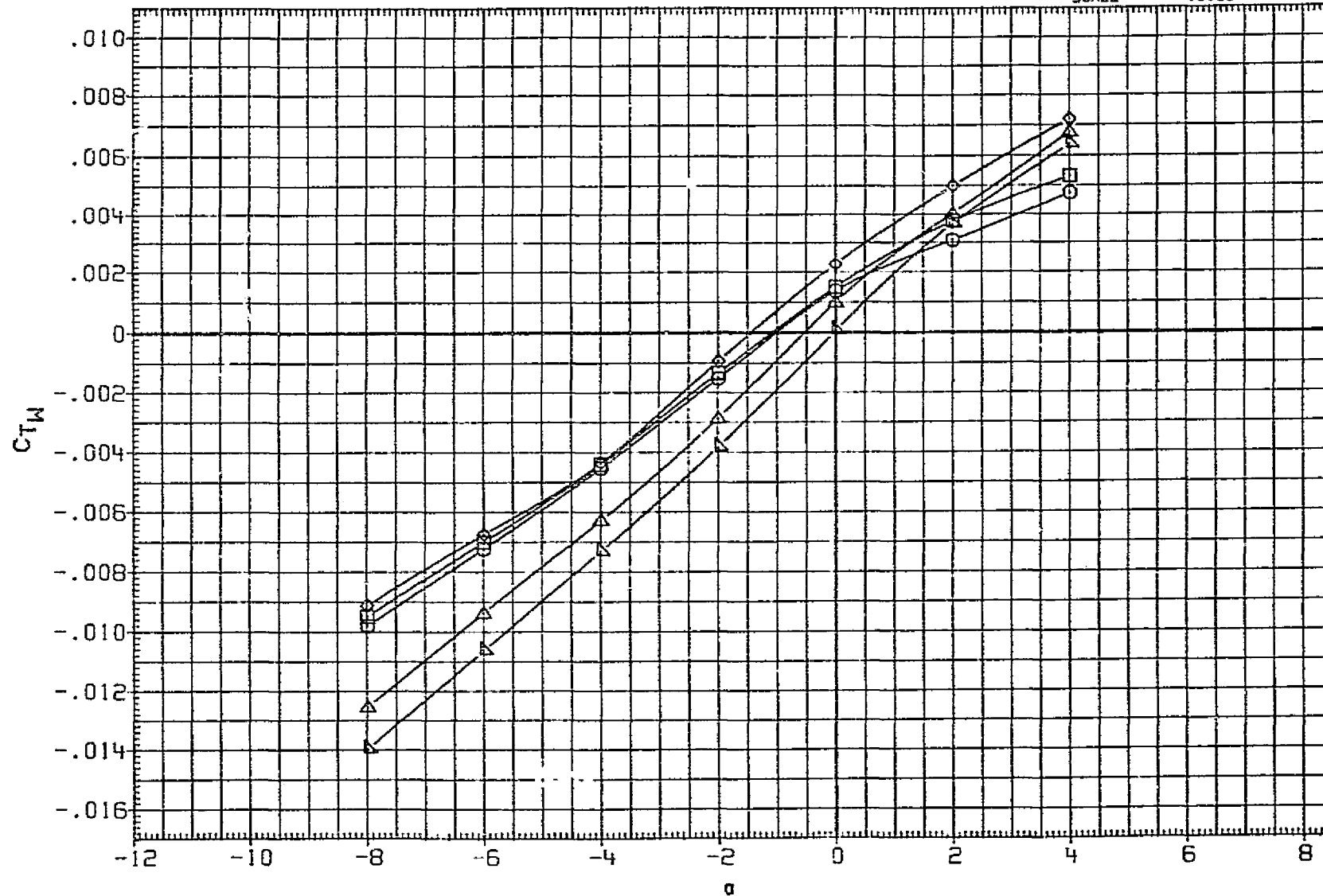


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	SQ.FT.
MJJA38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJA39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJA40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJA41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

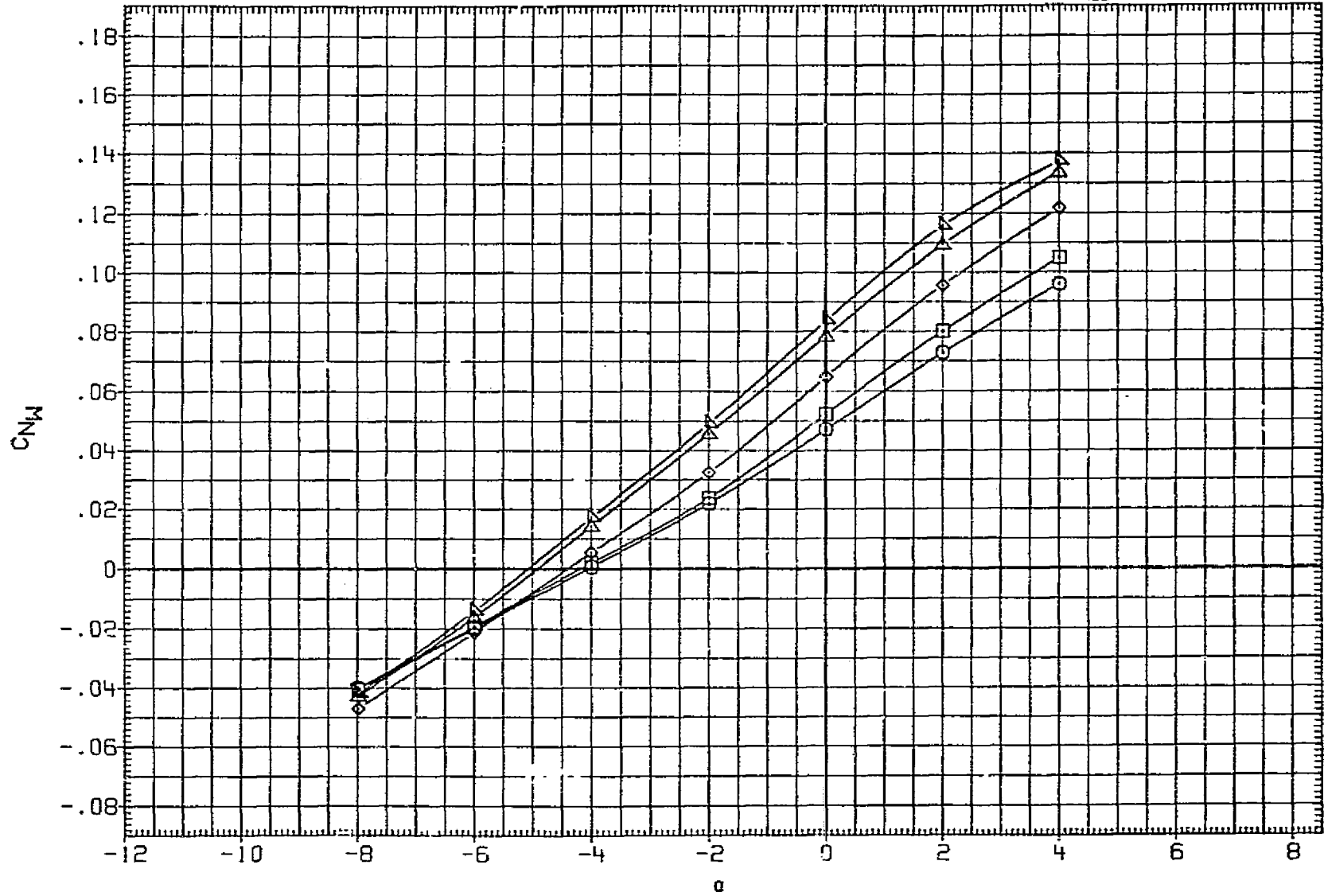


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYM BOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION
MJJA37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	16.000	14.000	BREF 2830.0000 SQ. FT.
MJJA38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF 1230.3000 INCHES
MJJA39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF 1230.3000 INCHES
MJJA40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP 976.0000 IN. XT
MJJA41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

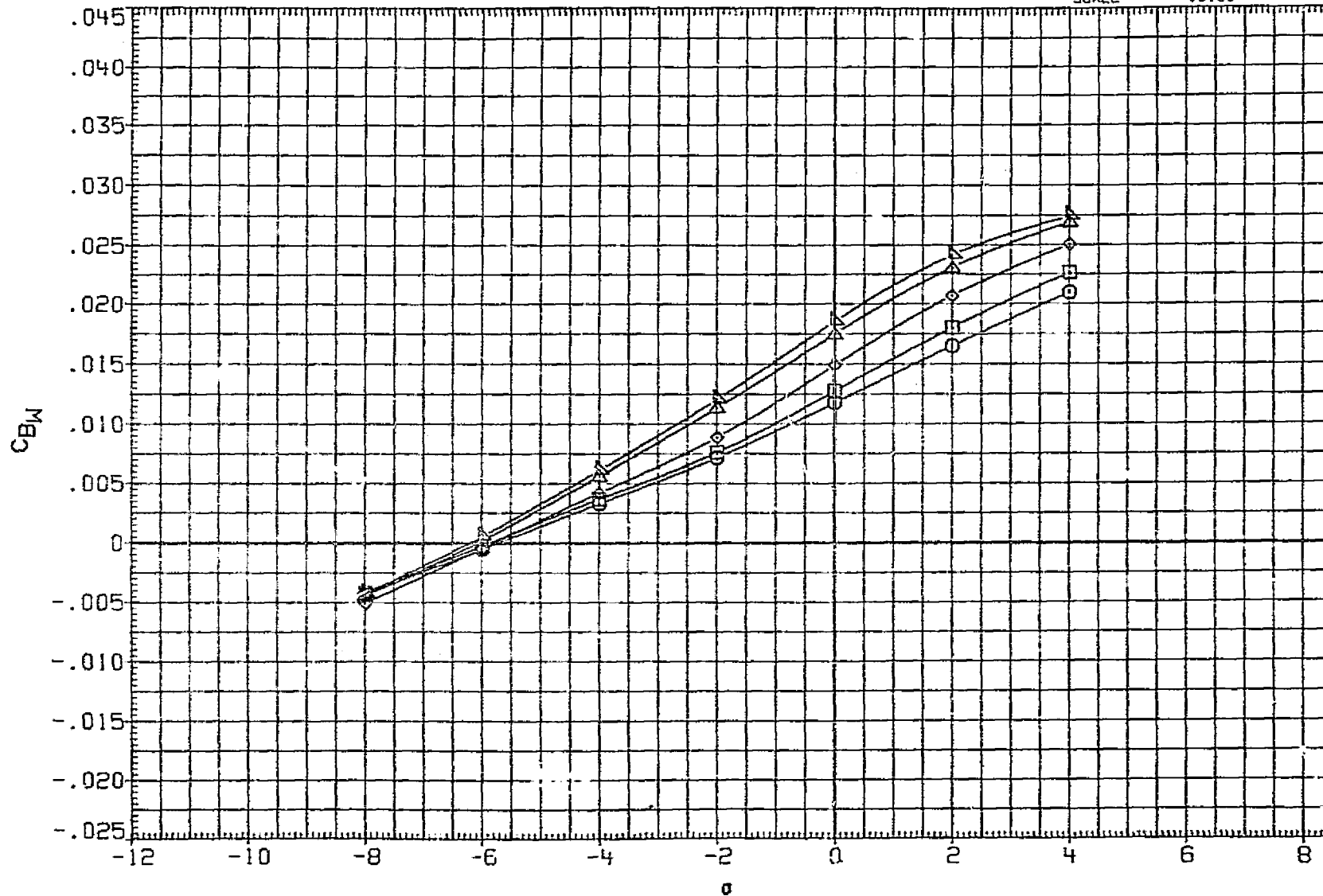


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50. FT.
MJJA38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJA39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJA40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XM RP	975.0000	IN. XT
MJJA41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YM RP	.0000	IN. YT
								ZM RP	400.0000	IN. ZT
								SCALE	.0100	

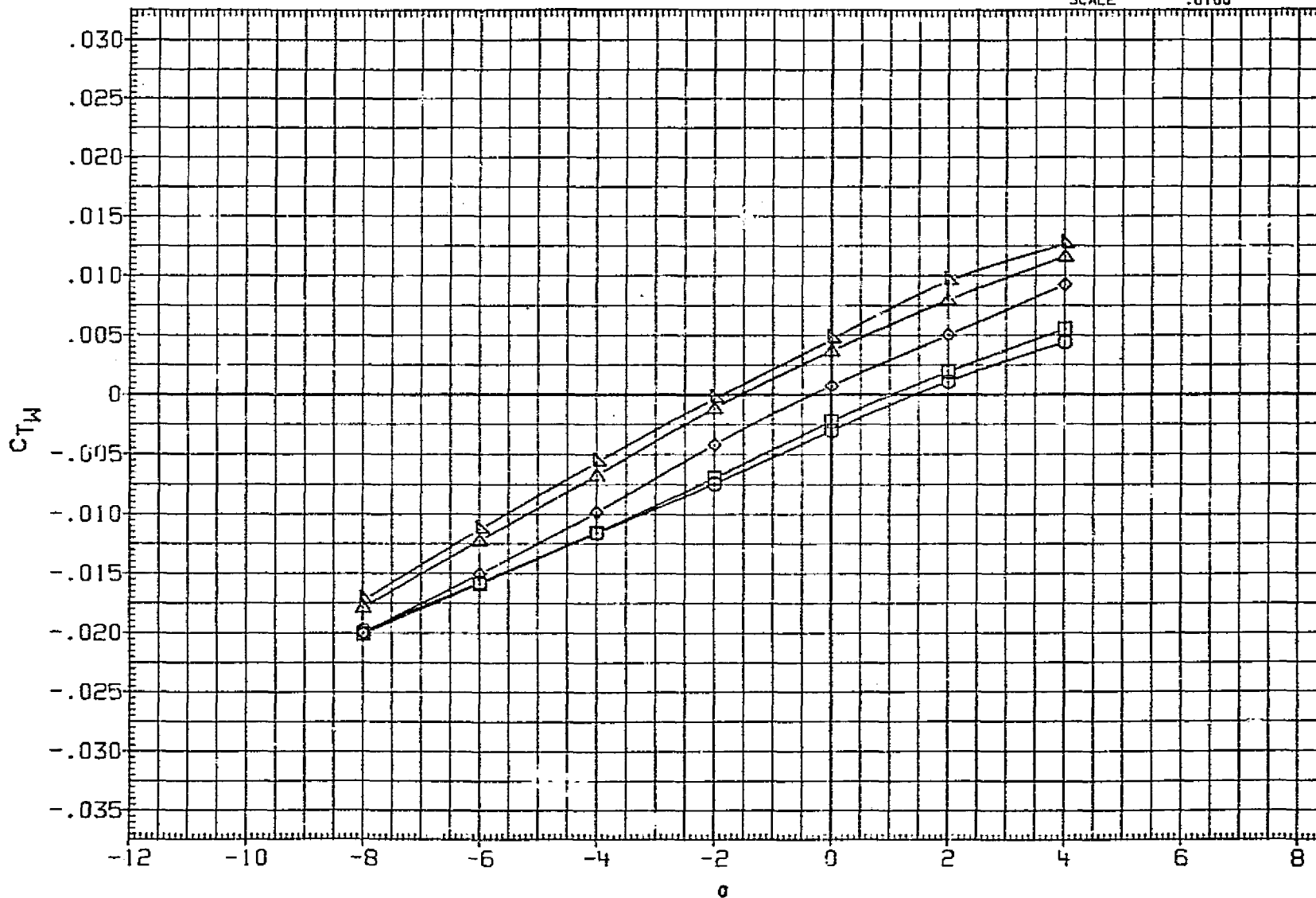


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SUBJOB	CONFIGURATION	SET.	U.A.C.	UPL-10	UPL-11	UPL-12	UPL-13	UPL-14	UPL-15	UPL-16	UPL-17	UPL-18	UPL-19	UPL-20	UPL-21	UPL-22	UPL-23	UPL-24	UPL-25	UPL-26	UPL-27	UPL-28	UPL-29	UPL-30	
ORBITER	1	LARD BFT 1PT 745 (IASS) ORSAT100	-8.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000
ORBITER	2	LARD BFT 1PT 745 (IASS) ORSAT100	-7.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000
ORBITER	3	LARD BFT 1PT 745 (IASS) ORSAT100	0.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000
ORBITER	4	LARD BFT 1PT 745 (IASS) ORSAT100	5.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000
ORBITER	5	LARD BFT 1PT 745 (IASS) ORSAT100	8.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000

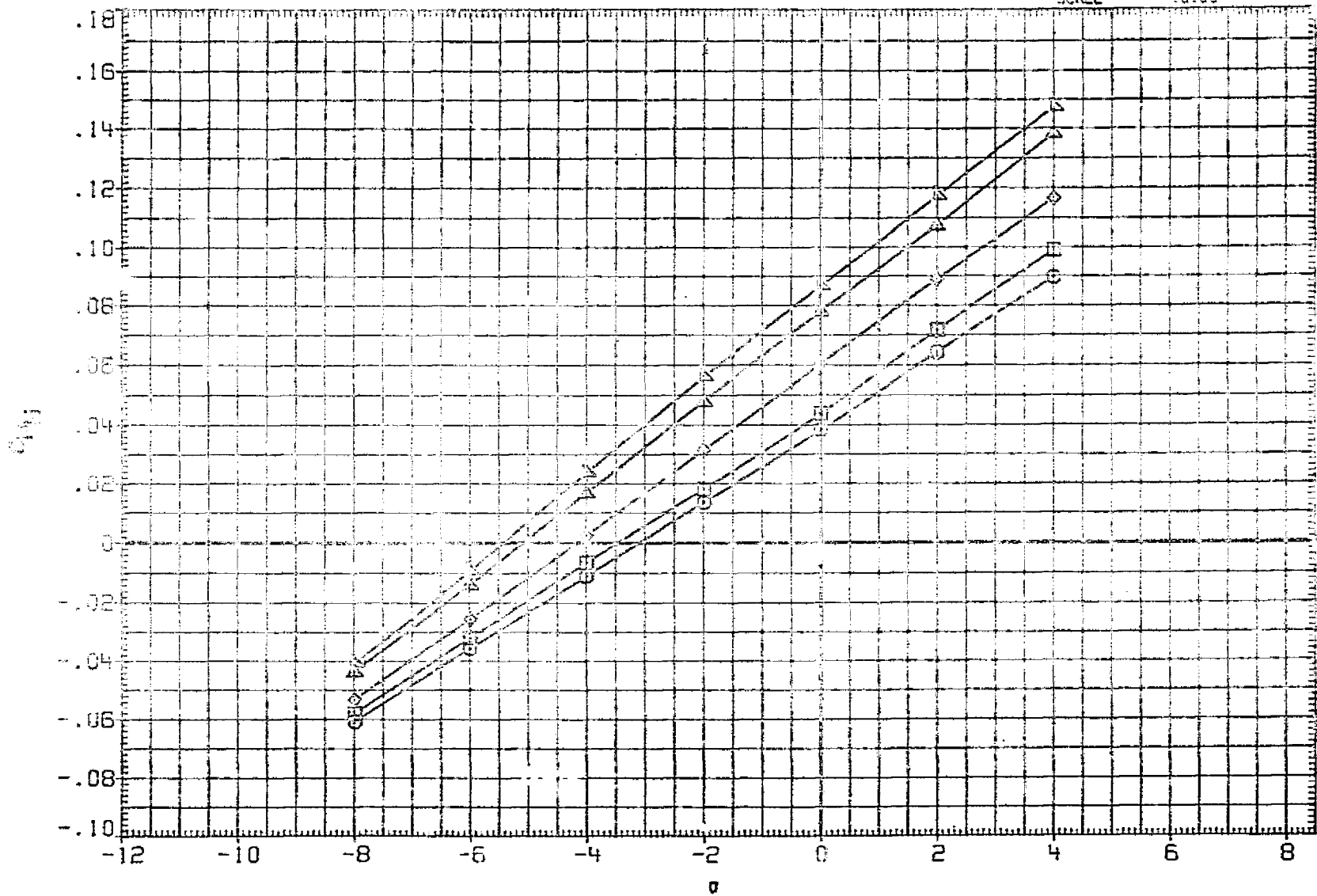


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B)MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA37	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF 2690.0000 50.FT.
MJJA38	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF 1290.3000 INCHES
MJJA39	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF 1290.3000 INCHES
MJJA40	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP 976.0000 IN. XT
MJJA41	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP .0000 IN. YT ZMRP 400.0000 IN. ZT SCALE .0100

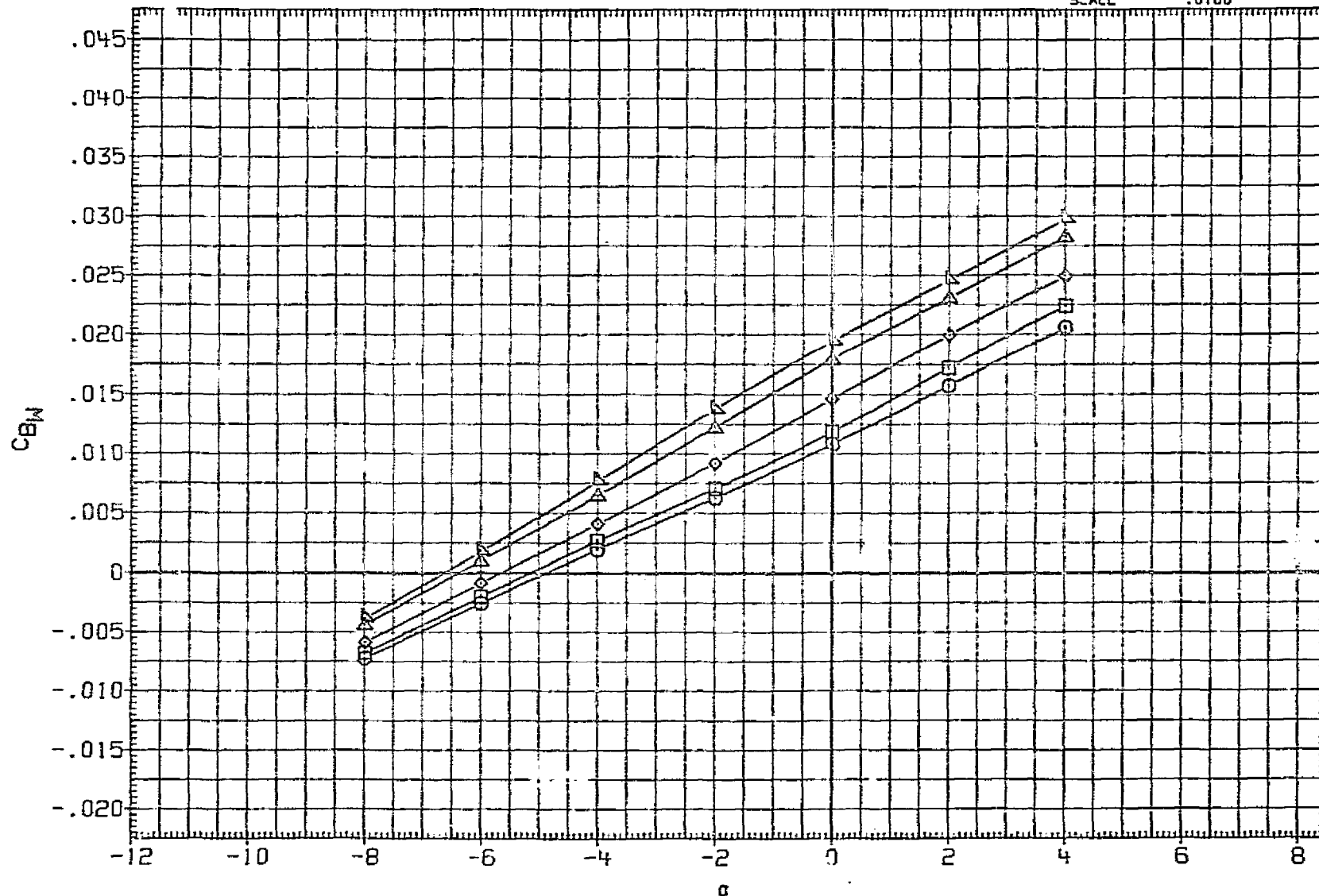


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA37	LARC 6FT TPT 749 (IA93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	STEP	2500.0000	SQ. FT.
MJJA38	LARC 6FT TPT 749 (IA93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	REF	1200.0000	INCHES
MJJA39	LARC 6FT TPT 749 (IA93) OTSAT130	.000	12.000	14.000	12.000	14.000	REF	1200.0000	INCHES
MJJA40	LARC 6FT TPT 749 (IA93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	975.0000	IN. XT
MJJA41	LARC 6FT TPT 749 (IA93) OTSAT130	6.000	12.000	14.000	12.000	14.000	MRP	.6000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

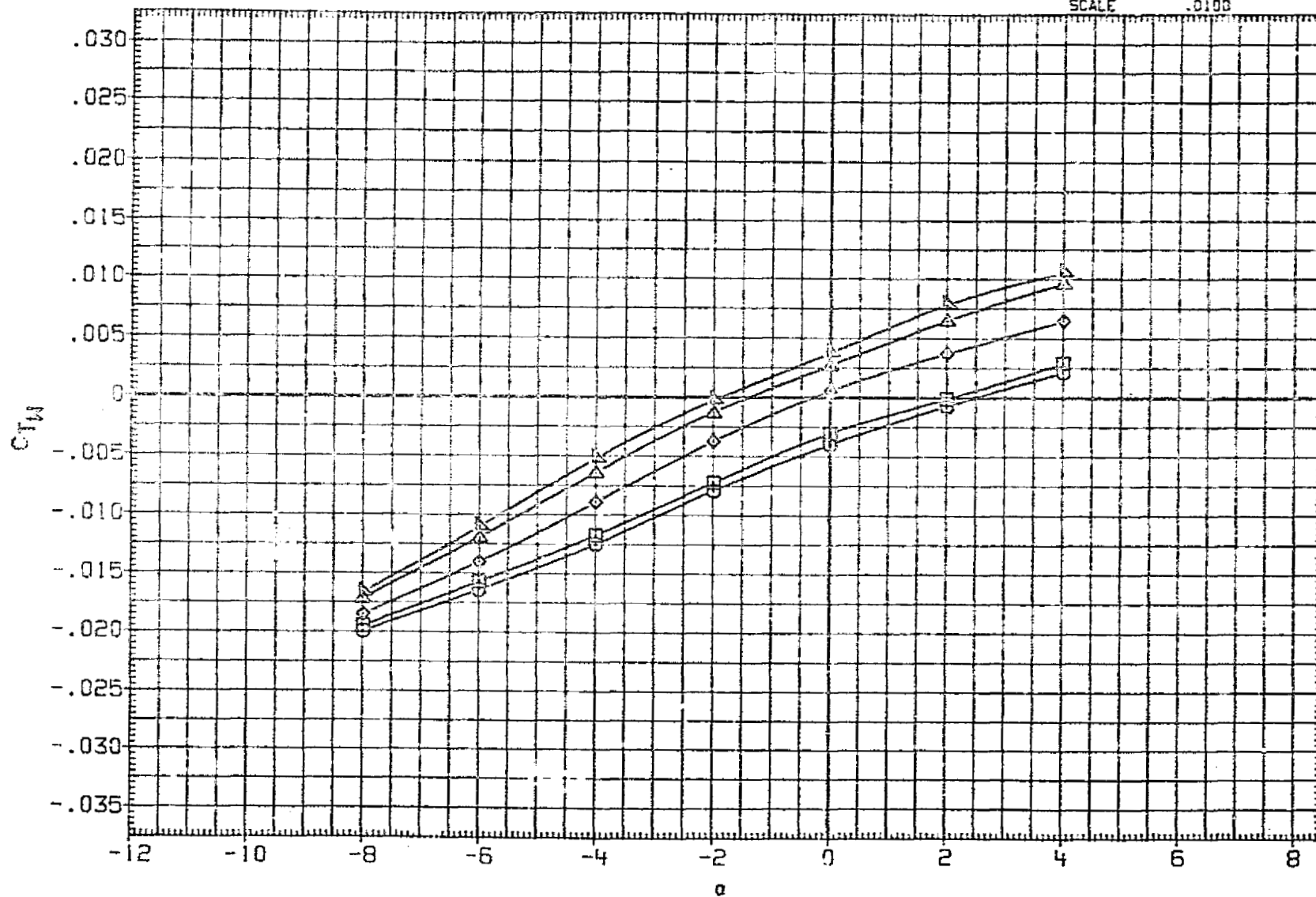


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	8.000	14.000	8.000	14.000	SREF	2690.0000	SQ. FT.
MJJA43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJA44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJA45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJA46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

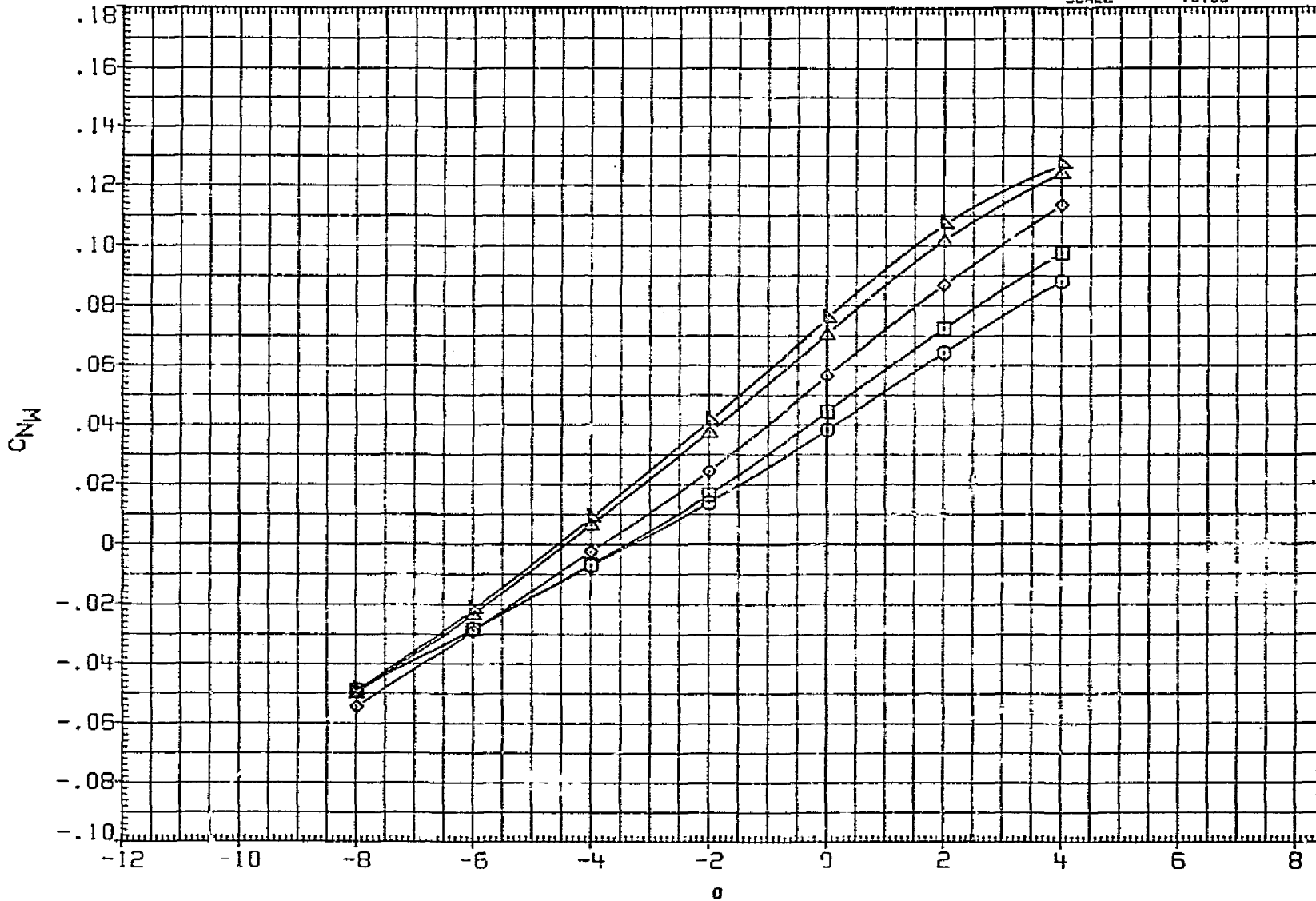


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L3	ELV-R1	ELV-R3	REFERENCE INFORMATION		
MJJA42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	90. FT.
MJJA43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.0000	100. IN.
MJJA44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.0000	100. IN.
MJJA45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJA46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

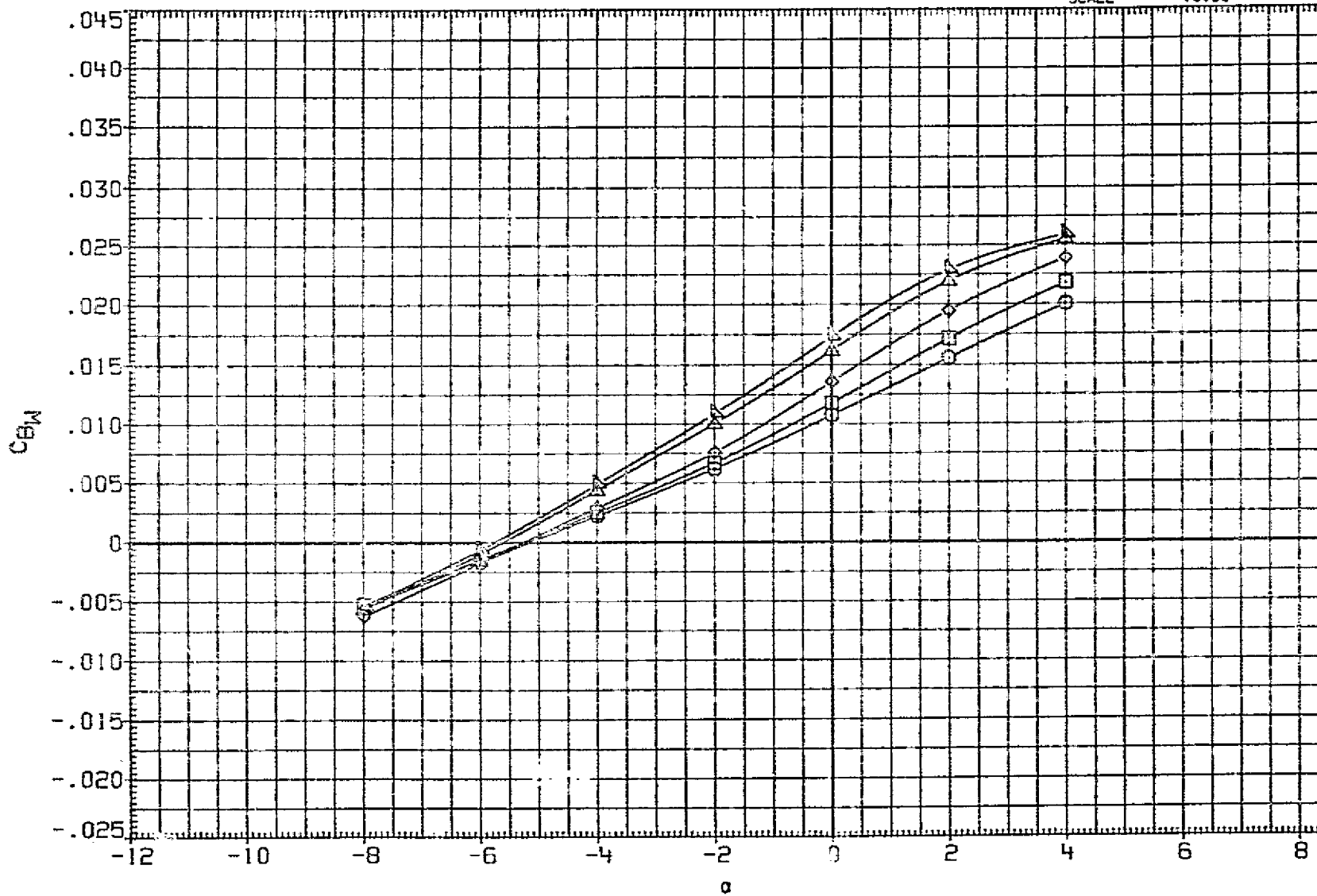


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000 50.FT.
MJJA43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000 INCHES
MJJA44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000 INCHES
MJJA45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000 IN. XT
MJJA46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

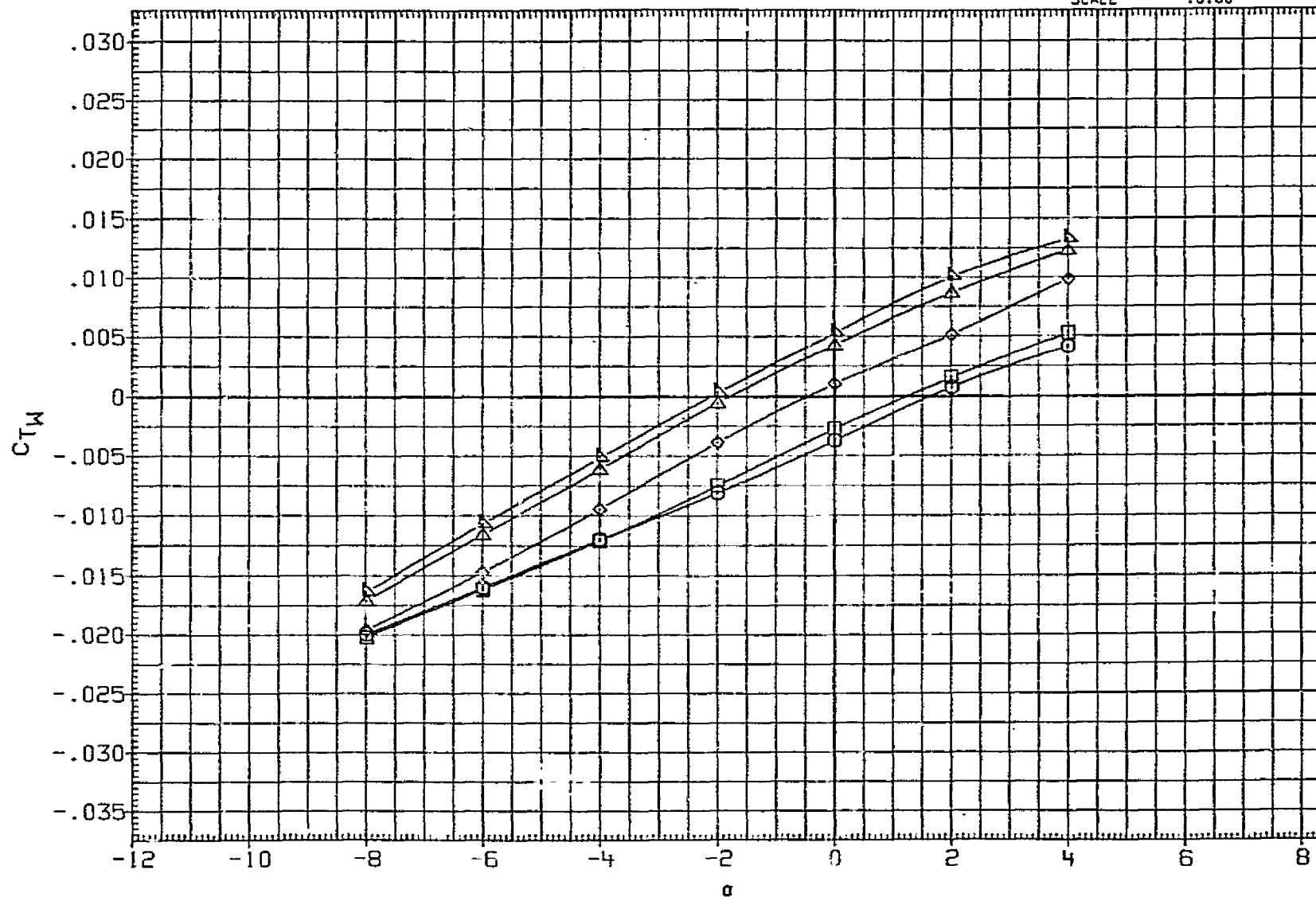


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	8.000	14.000	8.000	14.000	BREF	3880.0000	60. FT.
MJJA43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1690.3000	136.000
MJJA44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	106.000
MJJA45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	79.670
MJJA46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	0.000
								ZMRP	400.0000	33.333
								SCALE	.0100	

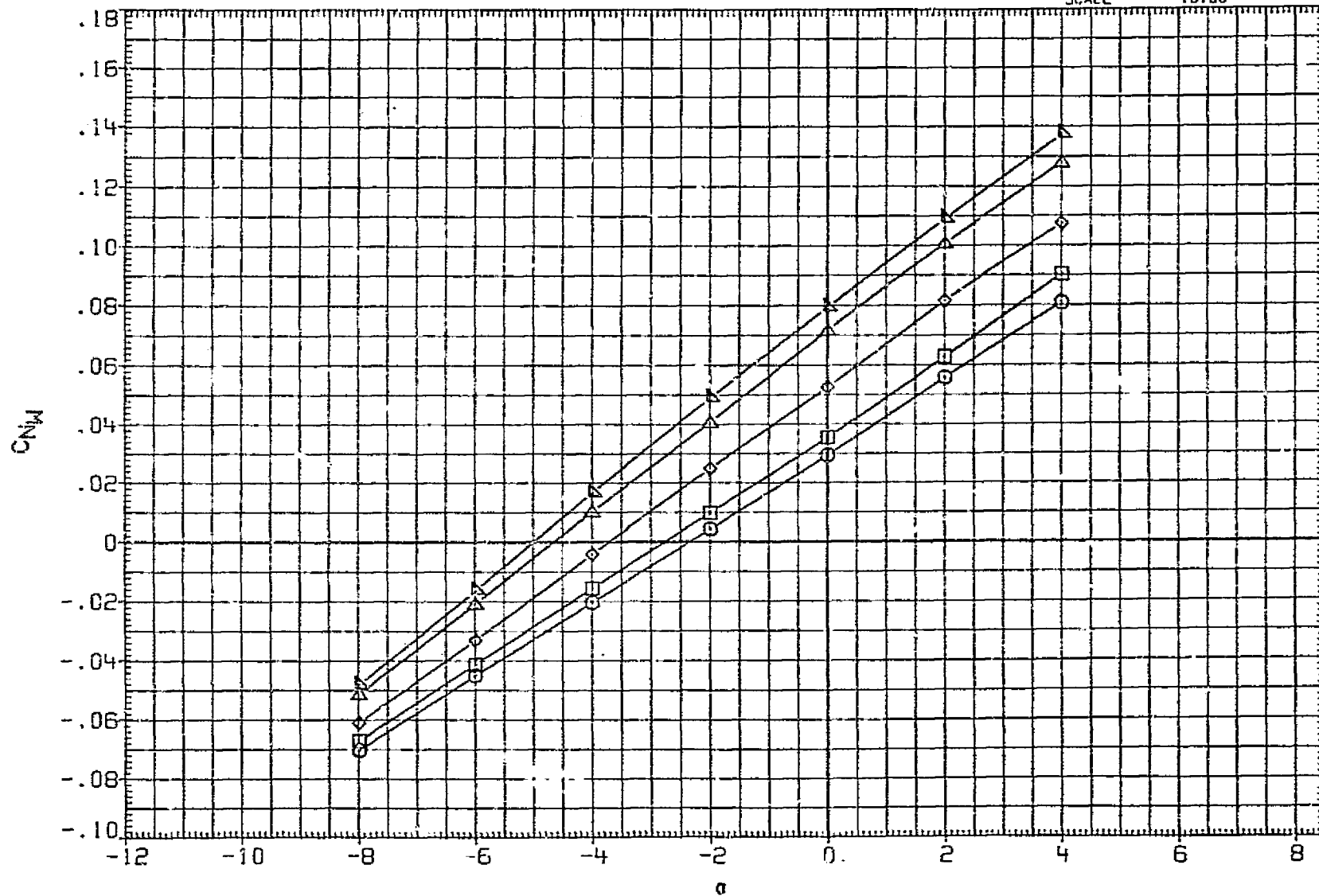


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

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REPRODUCIBILITY OF THE
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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000 SQ.FT.
MJJA43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000 INCHES
MJJA44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000 INCHES
MJJA45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000 IN. XT
MJJA46	▽	LARC 8FT TPT 749 (1A95) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

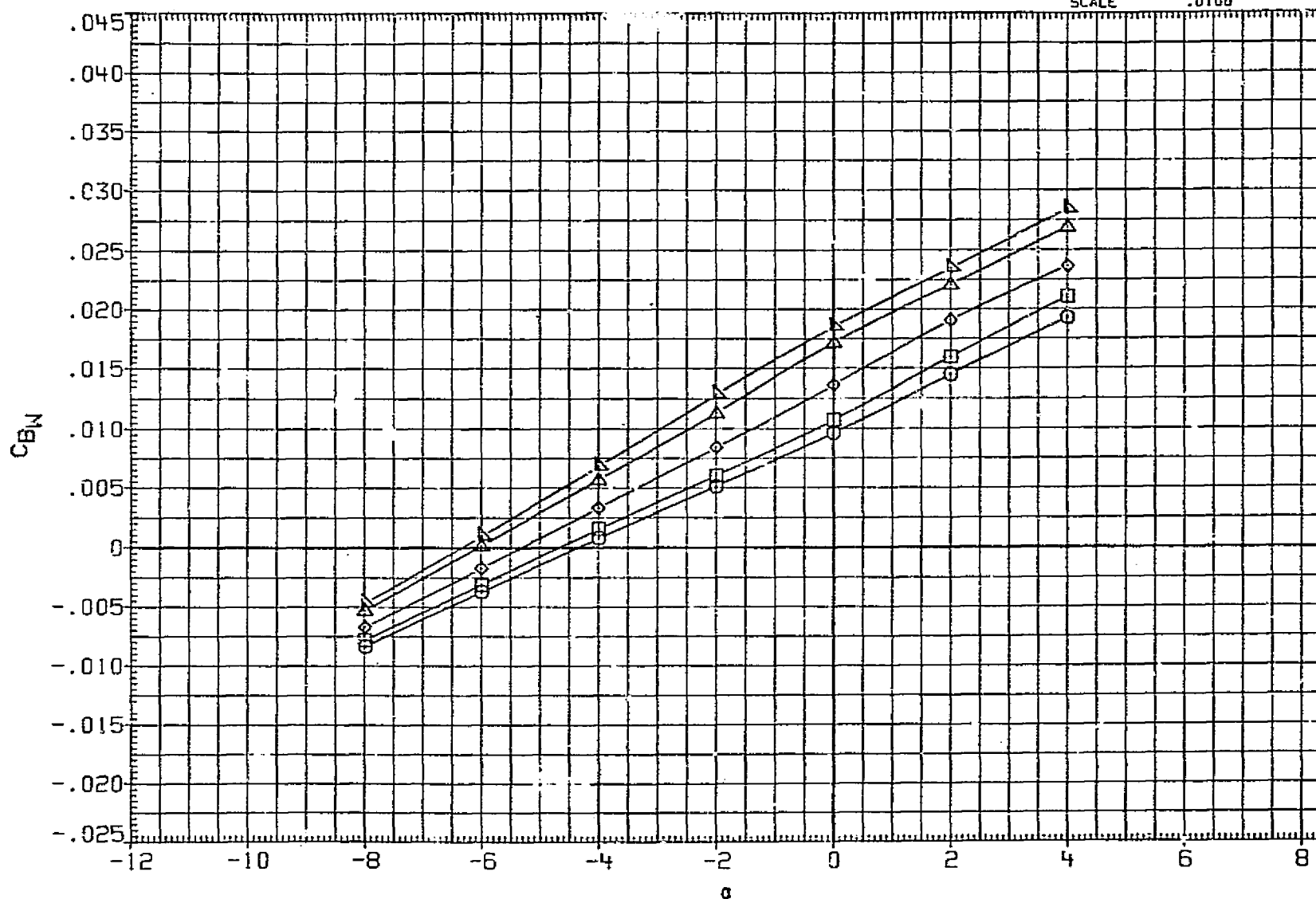


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA42	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	BREF	2693.0000	50.FT.
MJJA43	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJA44	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJA45	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJA46	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

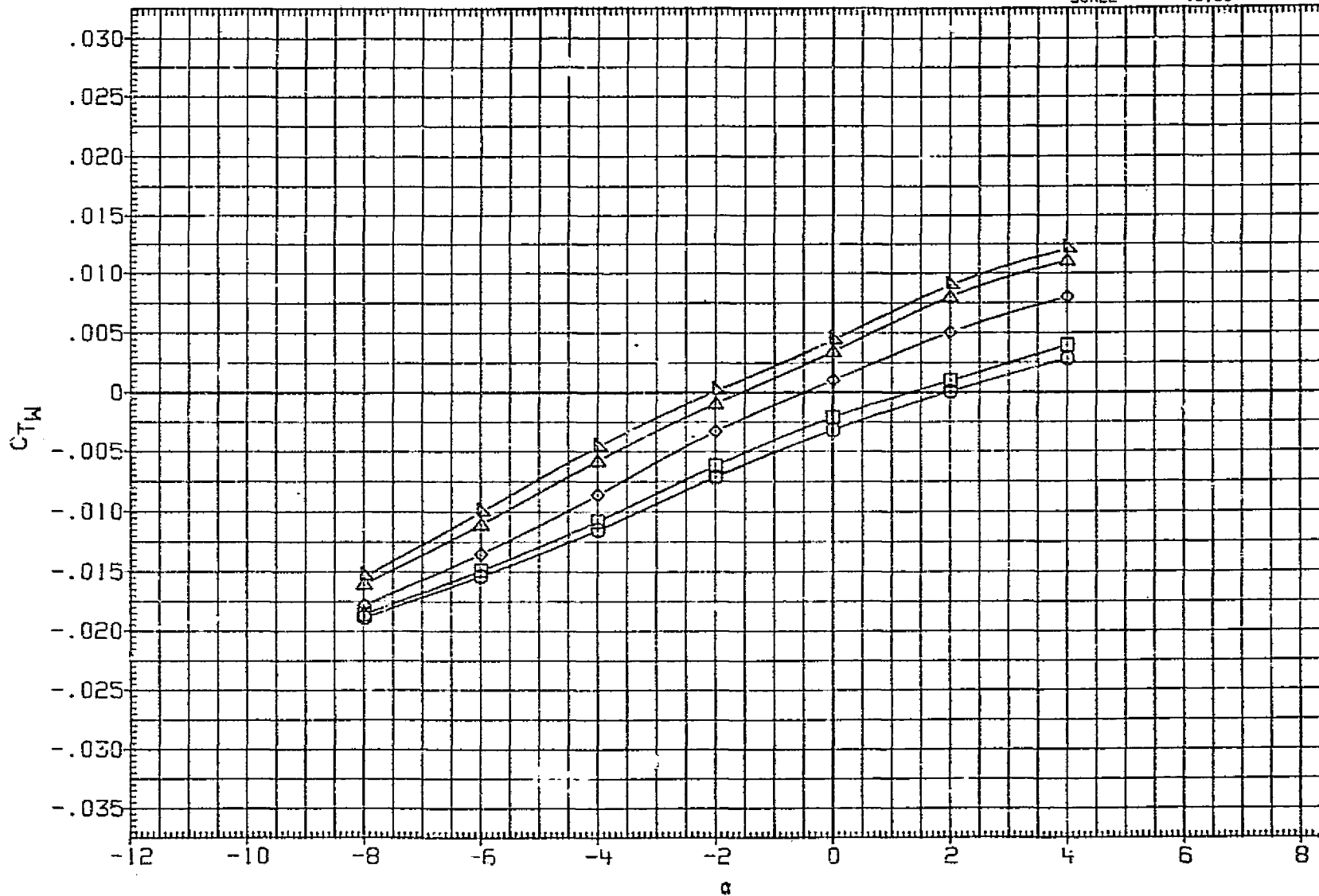


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJA48	□	LARC 8FT TPT 749 (A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

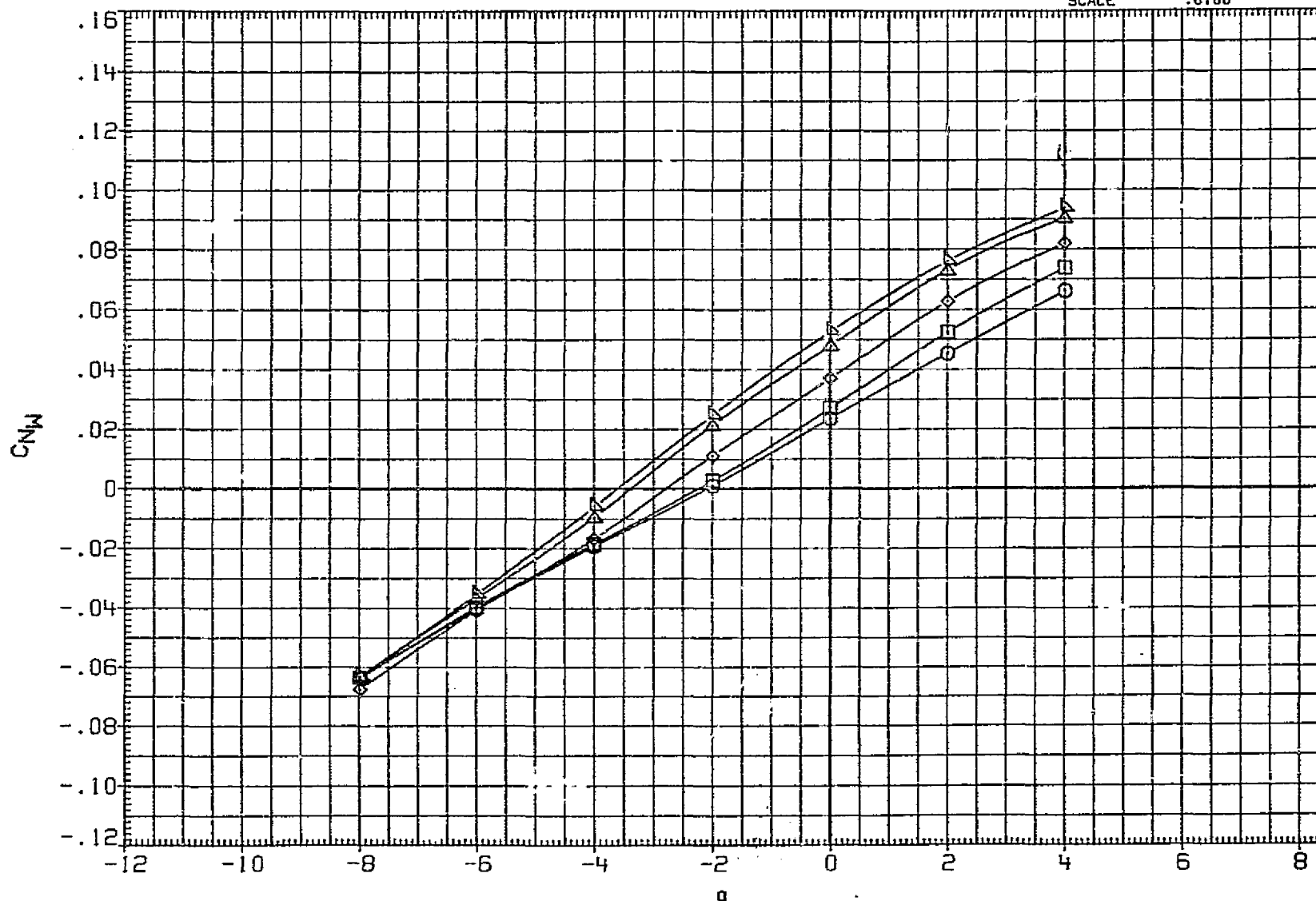


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
NJJAN7	○	LARC EPT YPT 749 (1A93) OTSAT130	-5.000	8.000	4.000	8.000	4.000	SREF	2890.0000	50. FT.
NJJAN6	□	LARC EPT YPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LINEF	1890.0000	INCHES
NJJAN5	◇	LARC EPT YPT 749 (1A93) OTSAT130	-3.000	8.000	4.000	8.000	4.000	BREF	1890.0000	INCHES
NJJAS6	△	LARC EPT YPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	978.0000	IN. IN
NJJAS1	▽	LARC EPT YPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	10000	IN. IN
								ZMRP	400.0000	IN. IN
								SCALE	.0100	

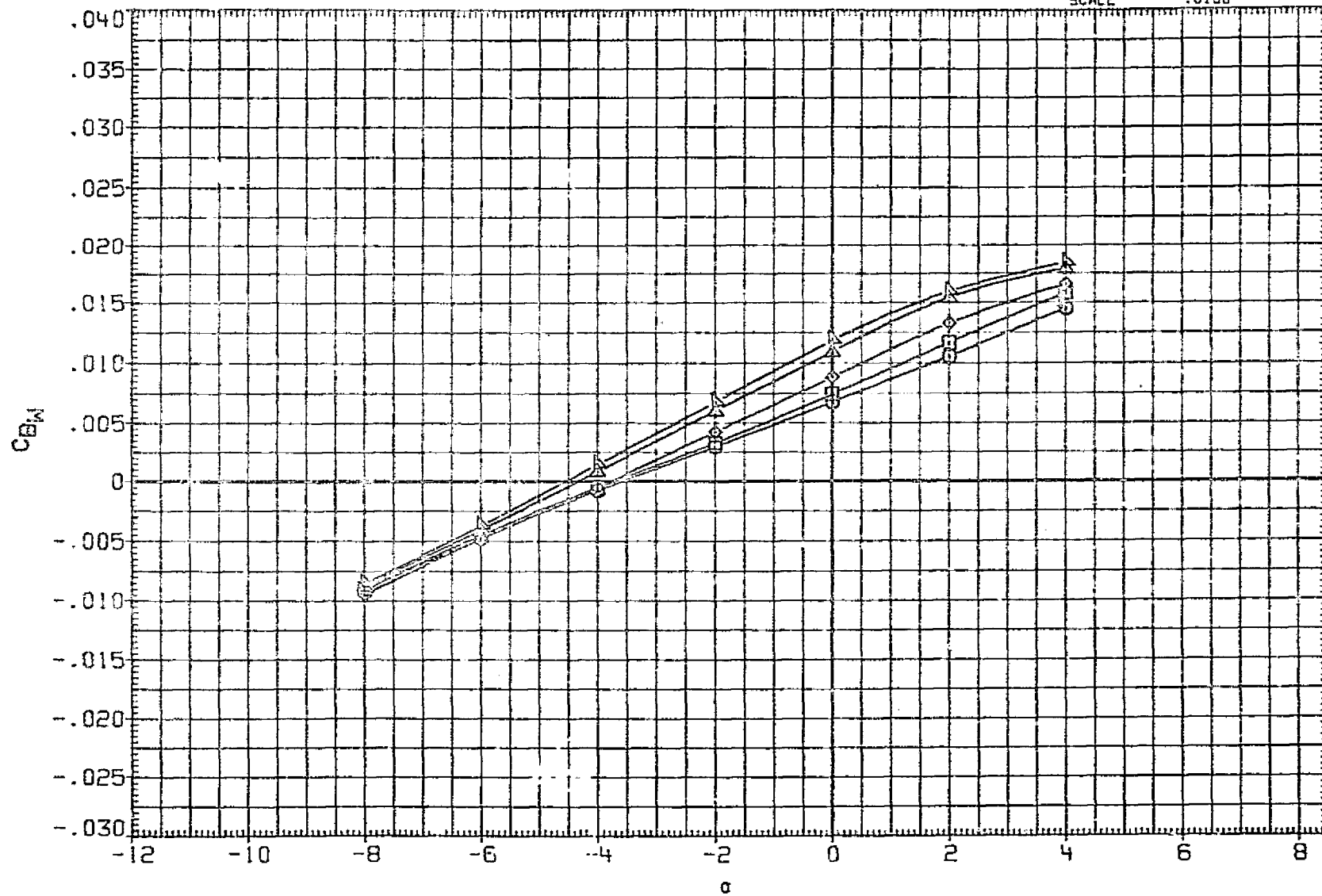


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJA48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XHRP	976.0000	IN. XT
MJJA51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YHRP	.0000	IN. YT
								ZHRP	400.0000	IN. ZT
								SCALE	.0100	

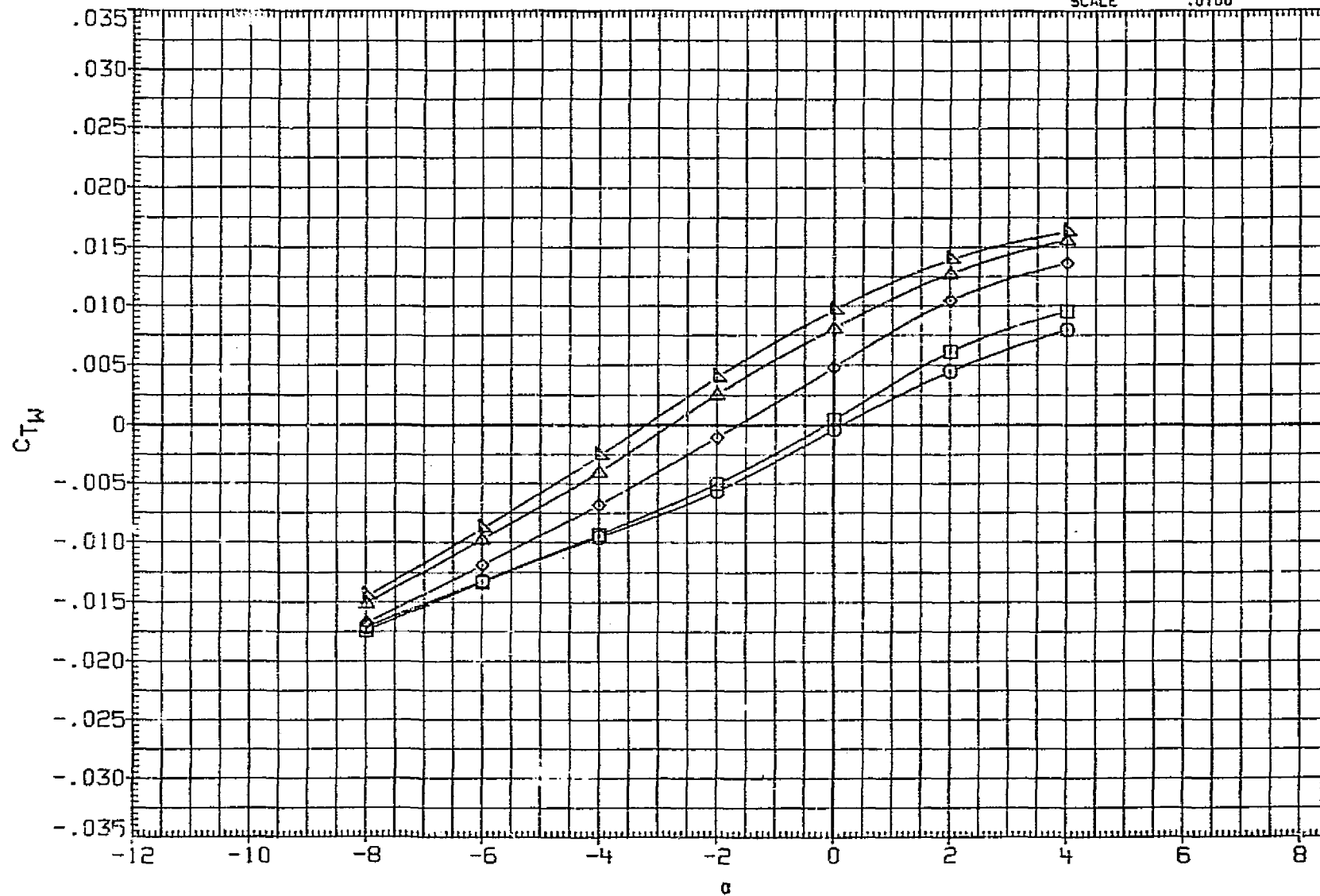


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	BREF	2690.0000	89. FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1296.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1590.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	⊠	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMHP	.0000	IN. Y7
								ZMHP	400.0000	IN. Z7
								SCALE	.0100	

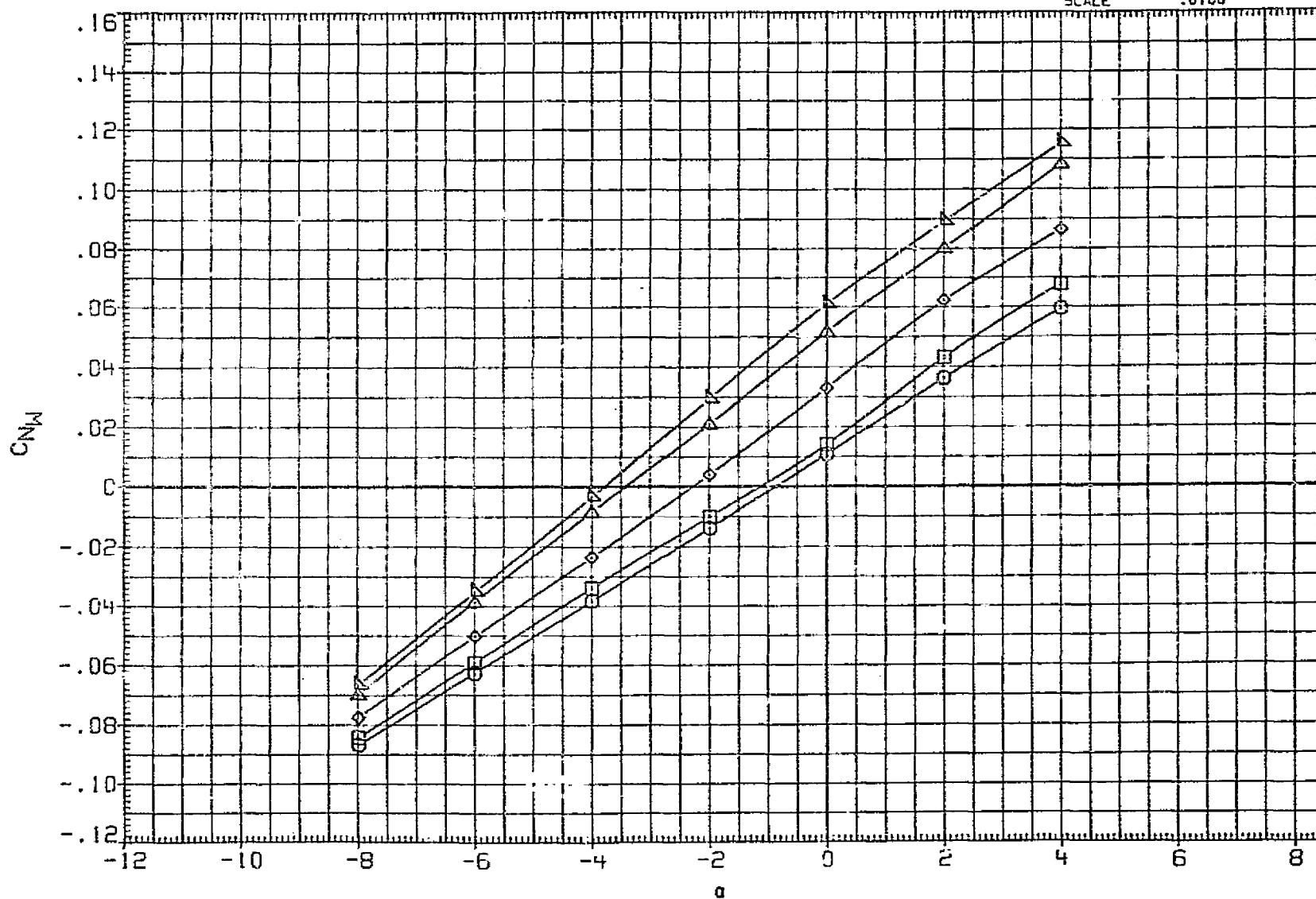


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000 SQ.FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000 INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000 INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000 IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

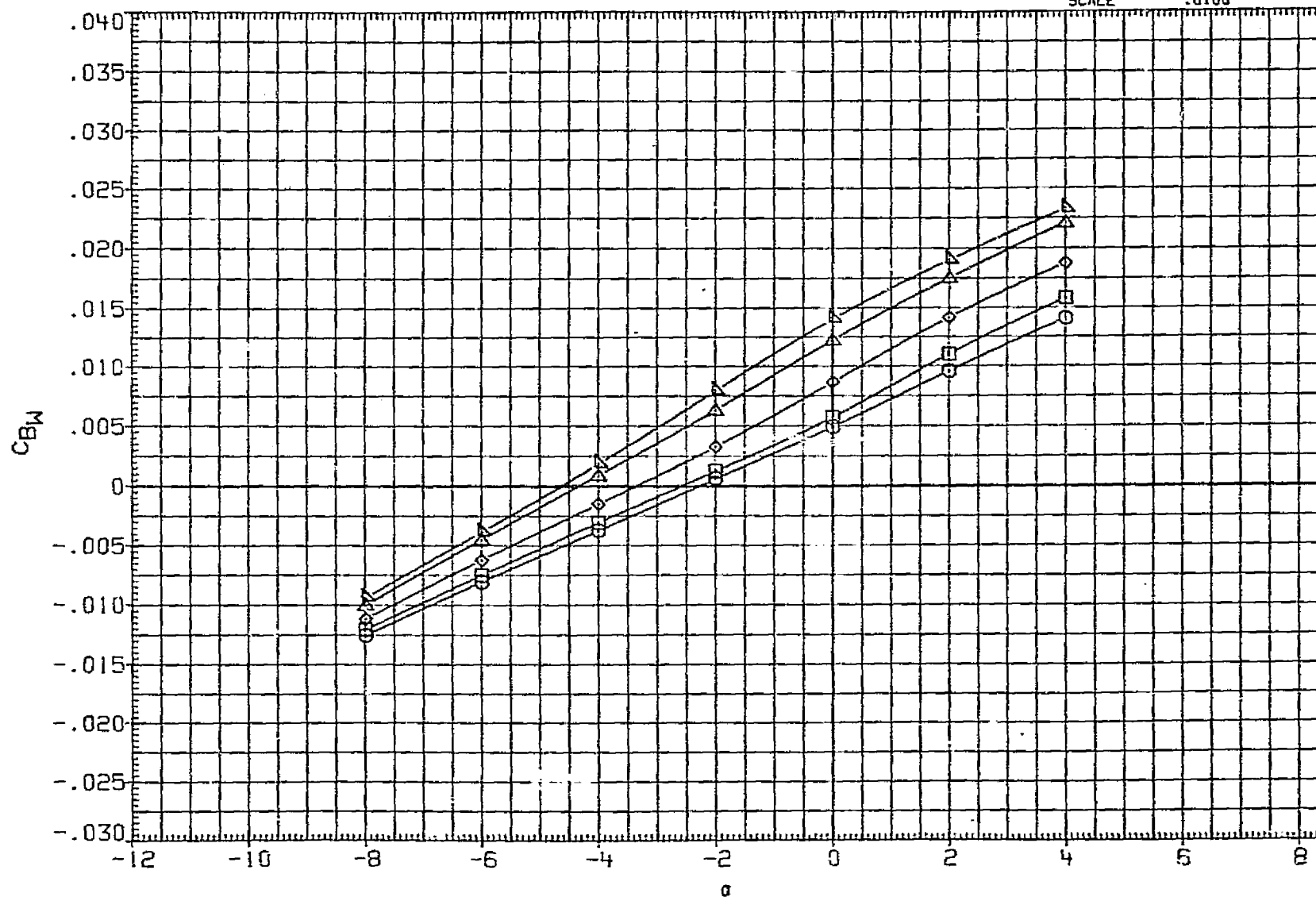


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

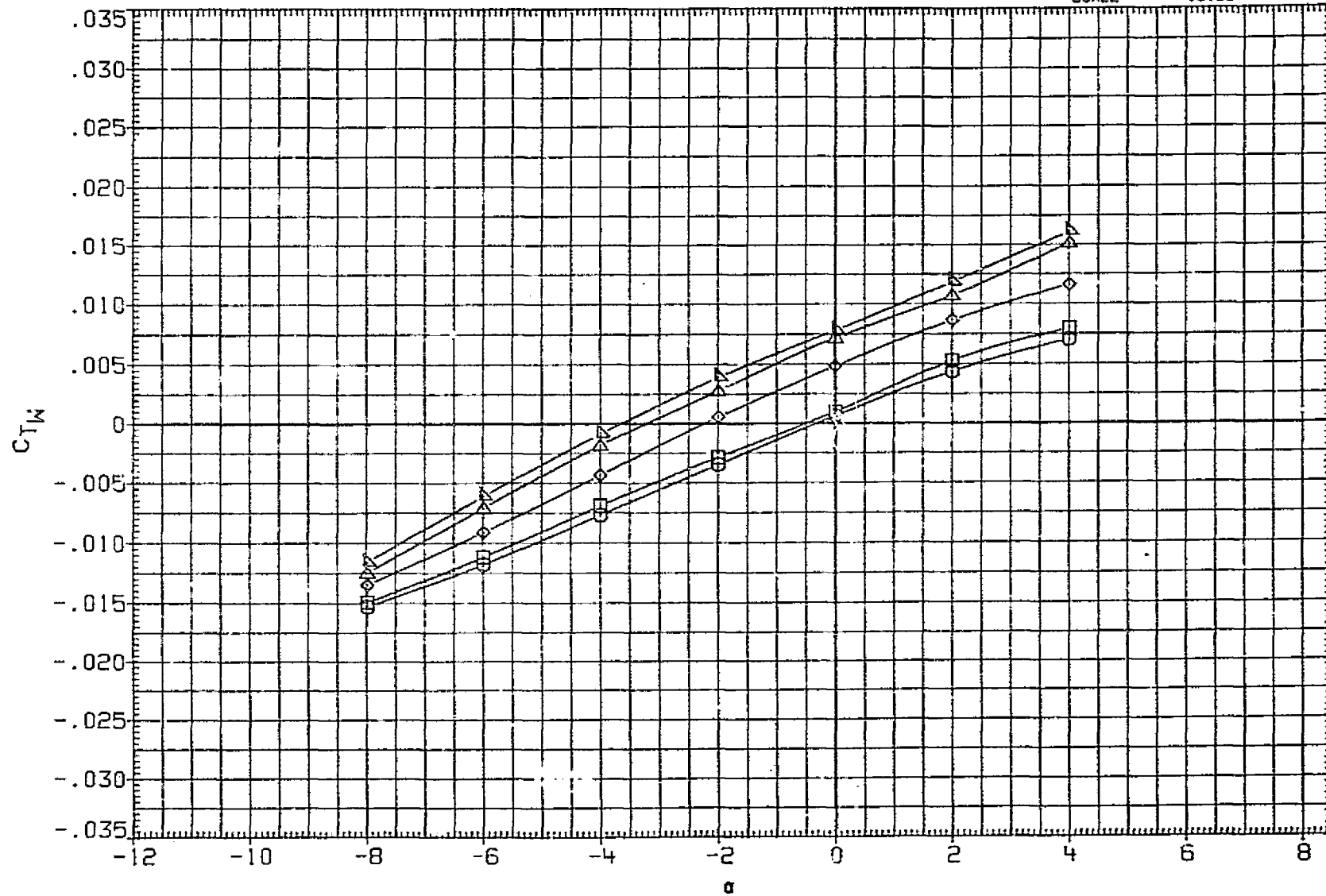


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

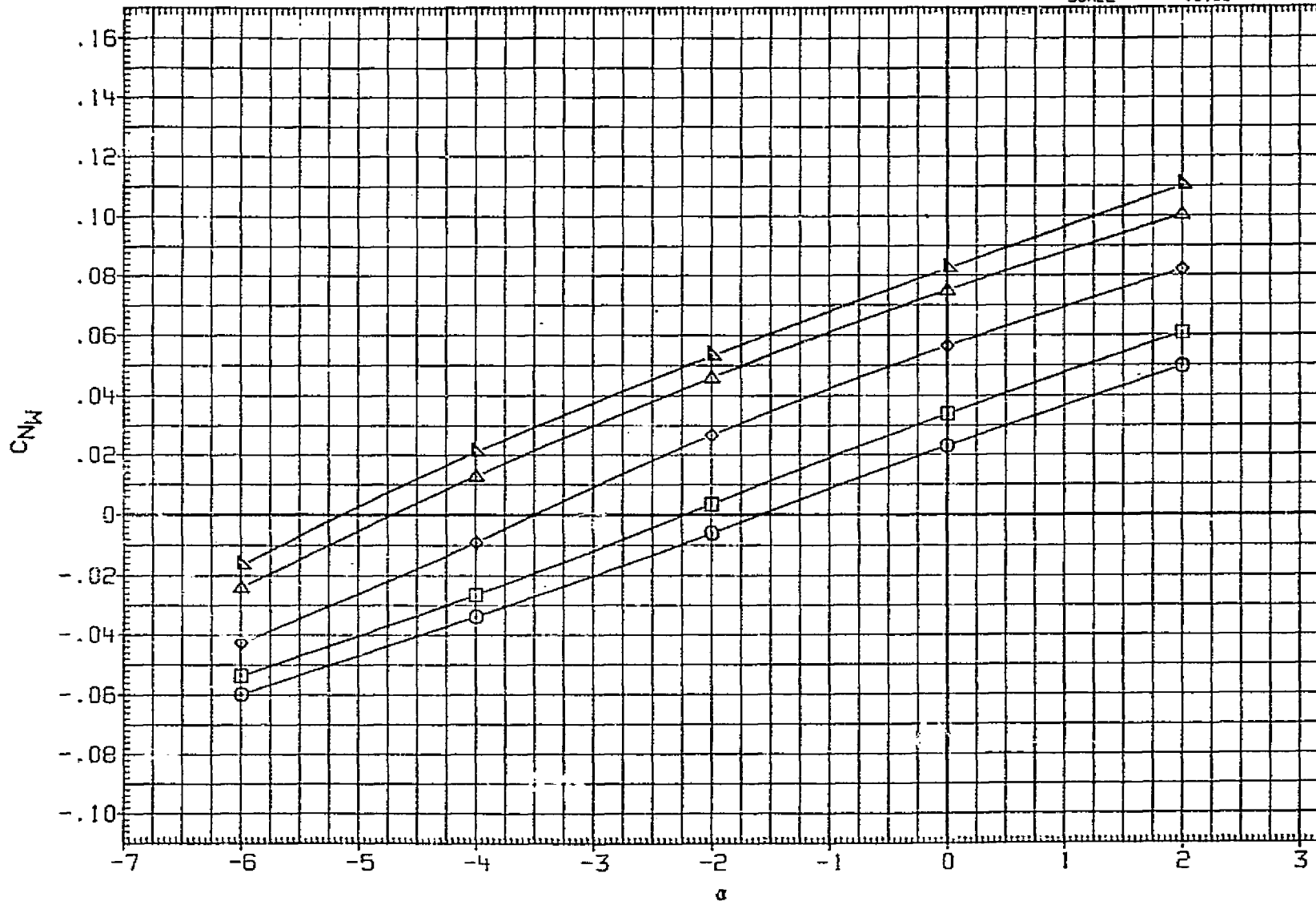


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LC	ELV-RI	ELV-RD	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	BREF	2890.0000	SQ. FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

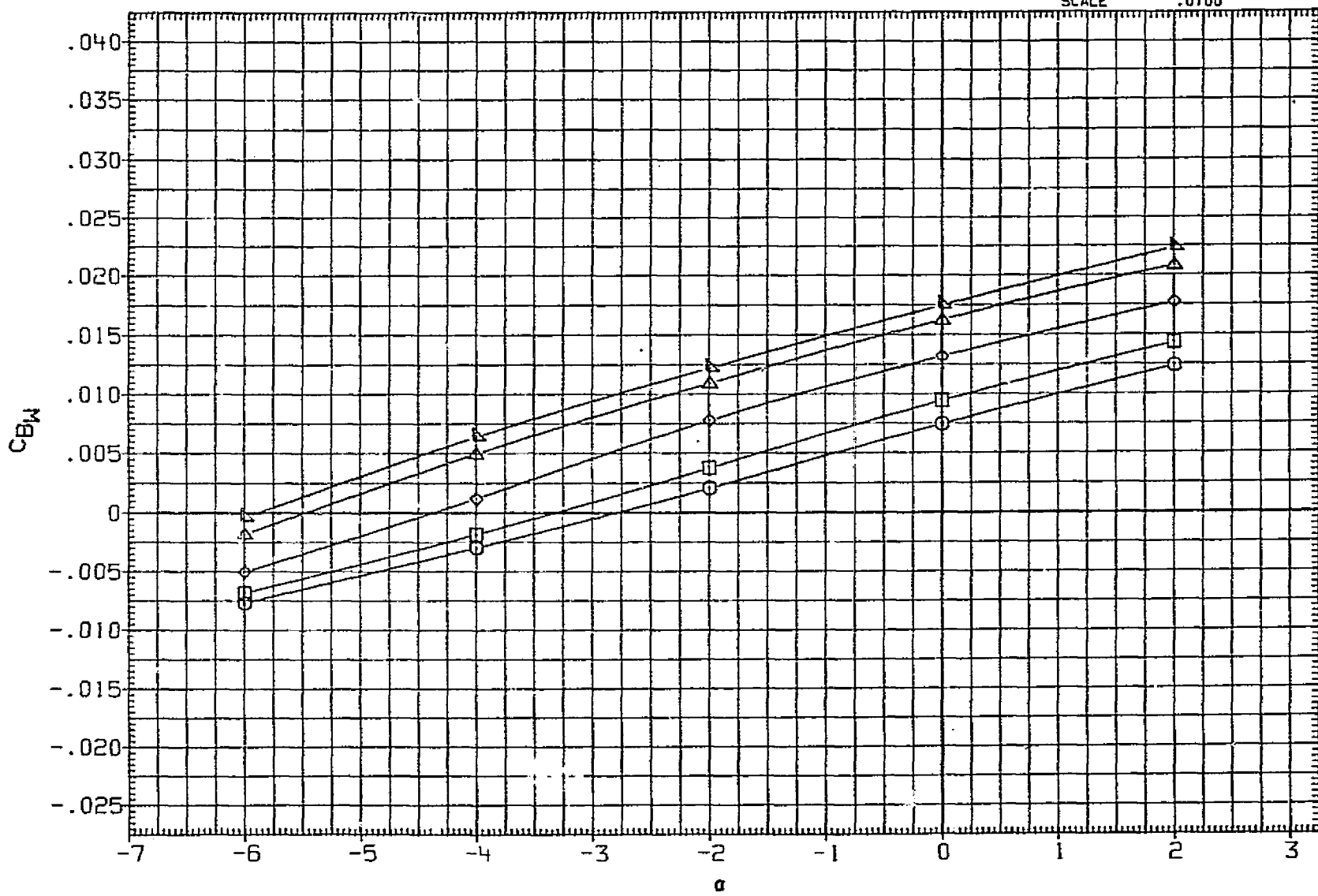


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(C)MACH = 1.15

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000 50. FT.
MJJA48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000 INCHES
MJJA49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000 INCHES
MJJA50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000 IN. XT
MJJA51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

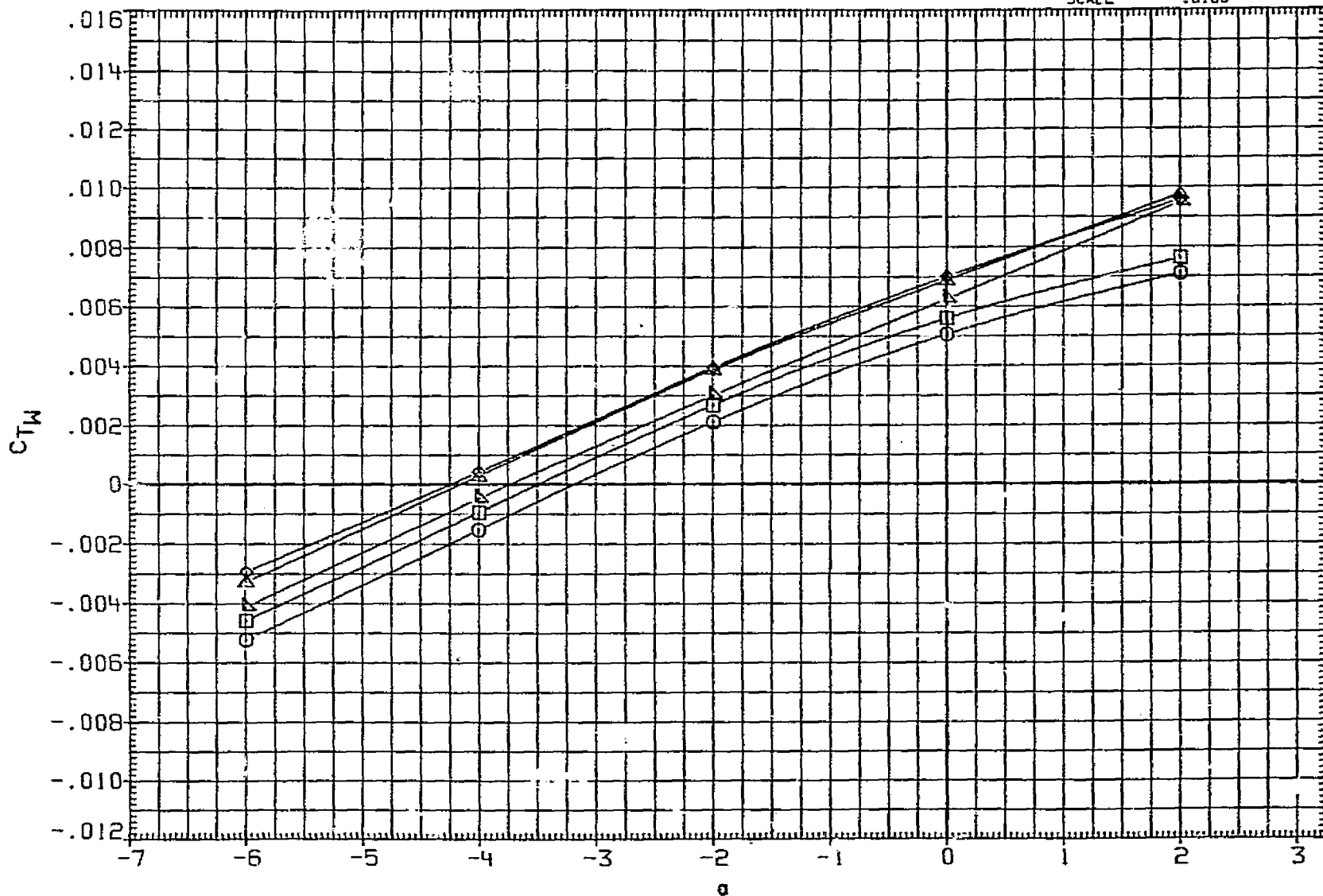


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2590.0000	SQ.FT.
MJJA48	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

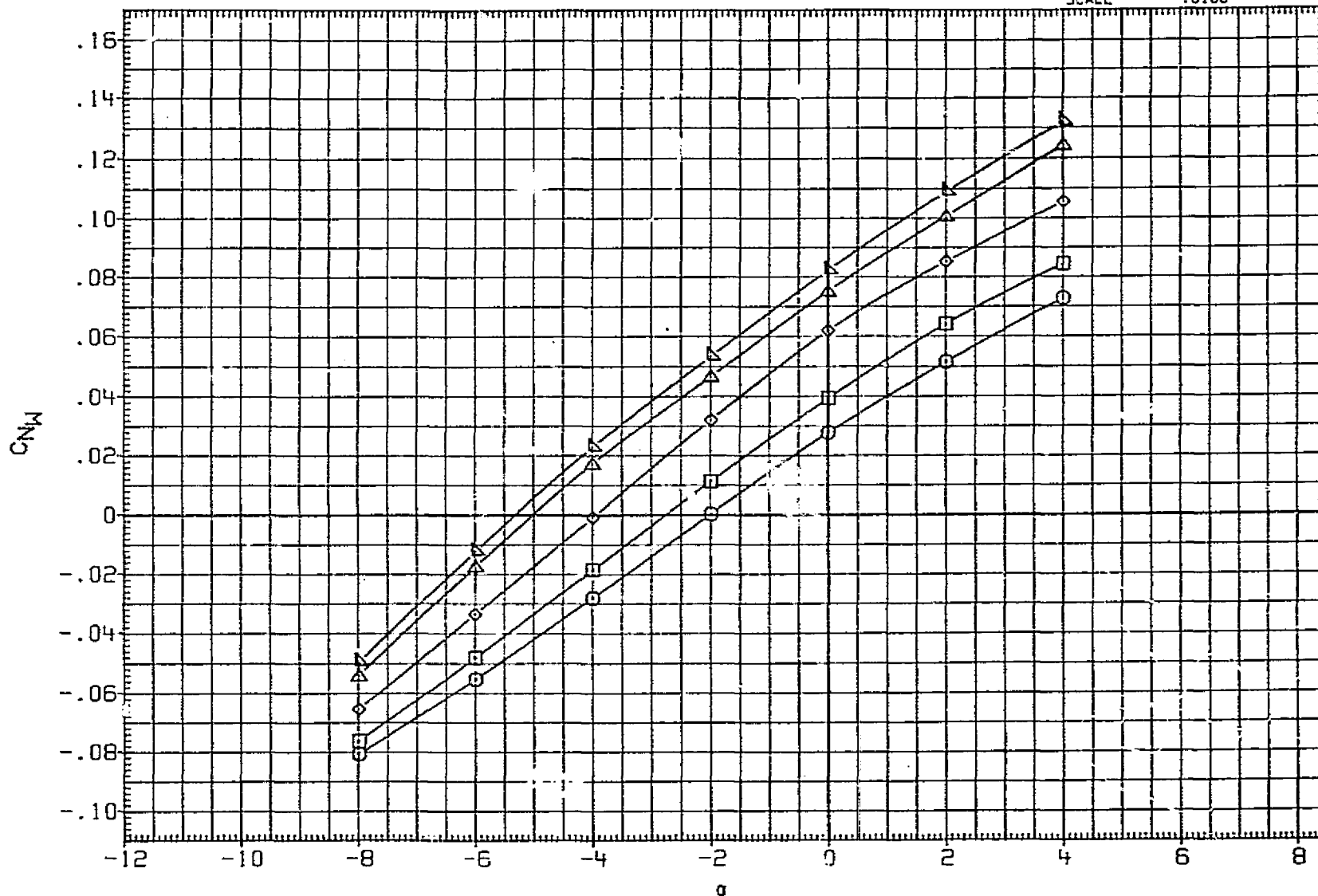


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA47	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJA48	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJA49	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJA50	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJA51	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.300	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

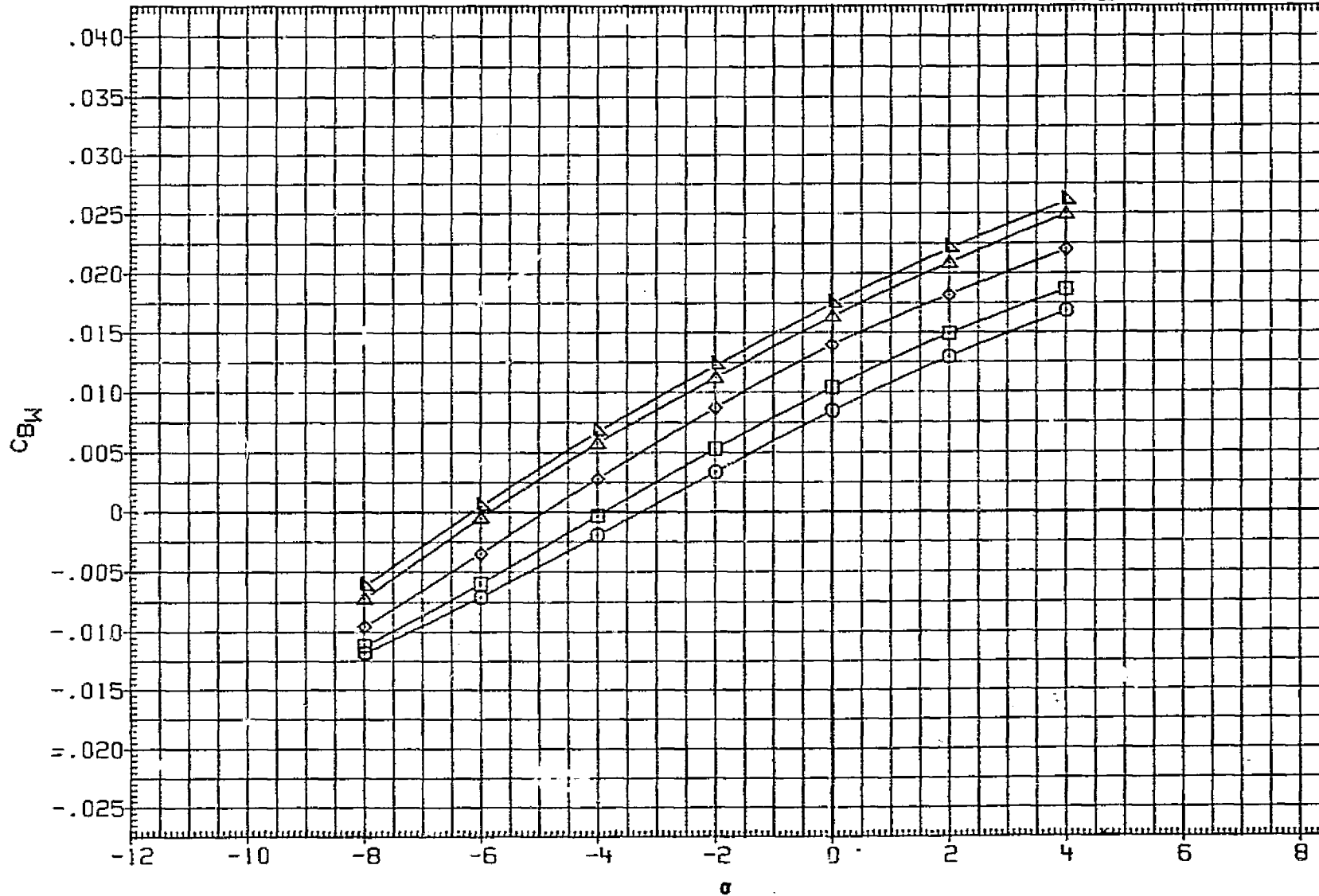


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION
MJJA47	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	0.000	4.000	WREF 6693.0000 SQ. FT.
MJJA48	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF 1293.0000 INCHES
MJJA49	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF 1293.0000 INCHES
MJJA50	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP 976.0000 IN. FT
MJJA51	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP .0000 IN. FT
							ZMRP 400.0000 IN. FT
							SCALE .0100

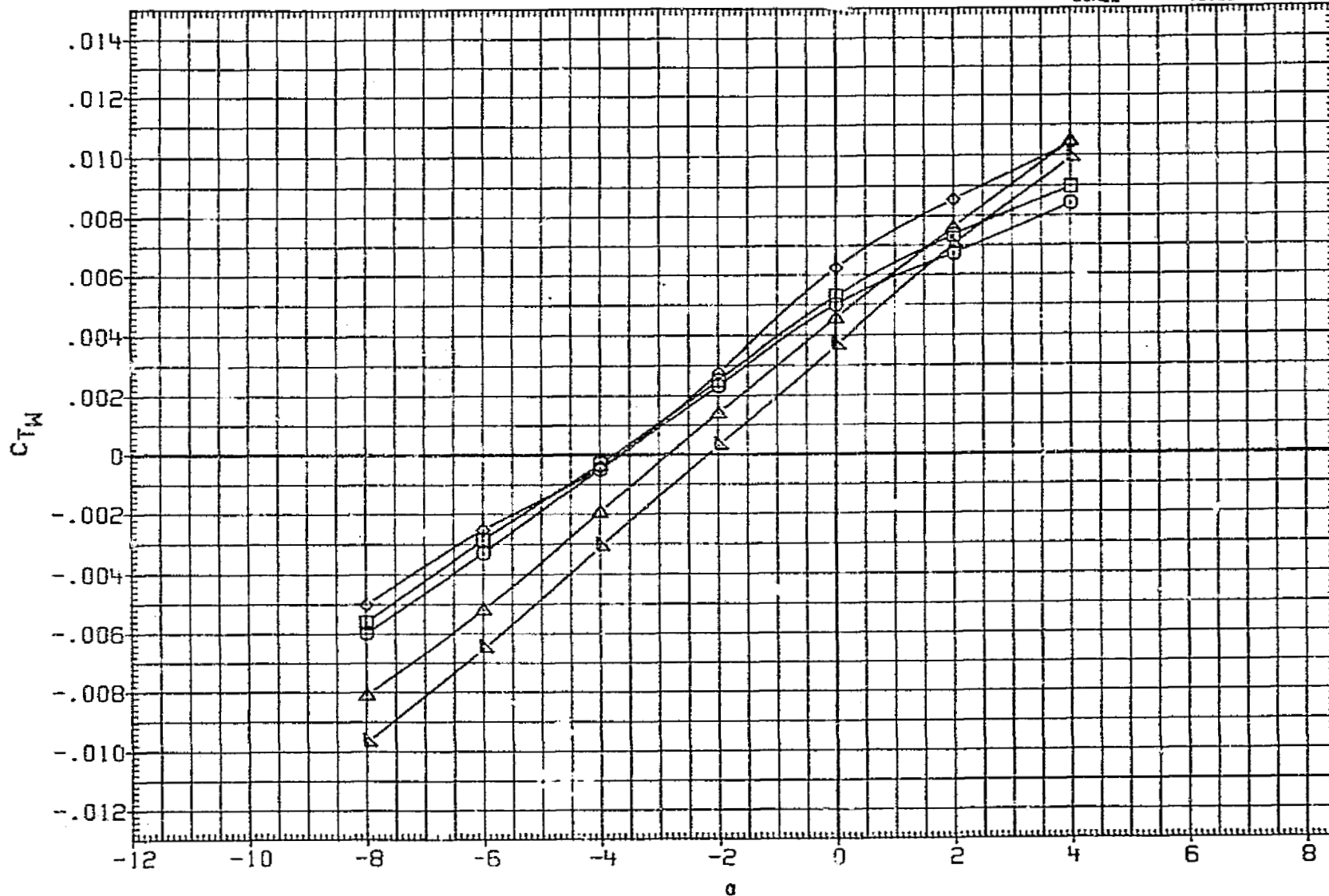


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ.FT.
MJJA53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

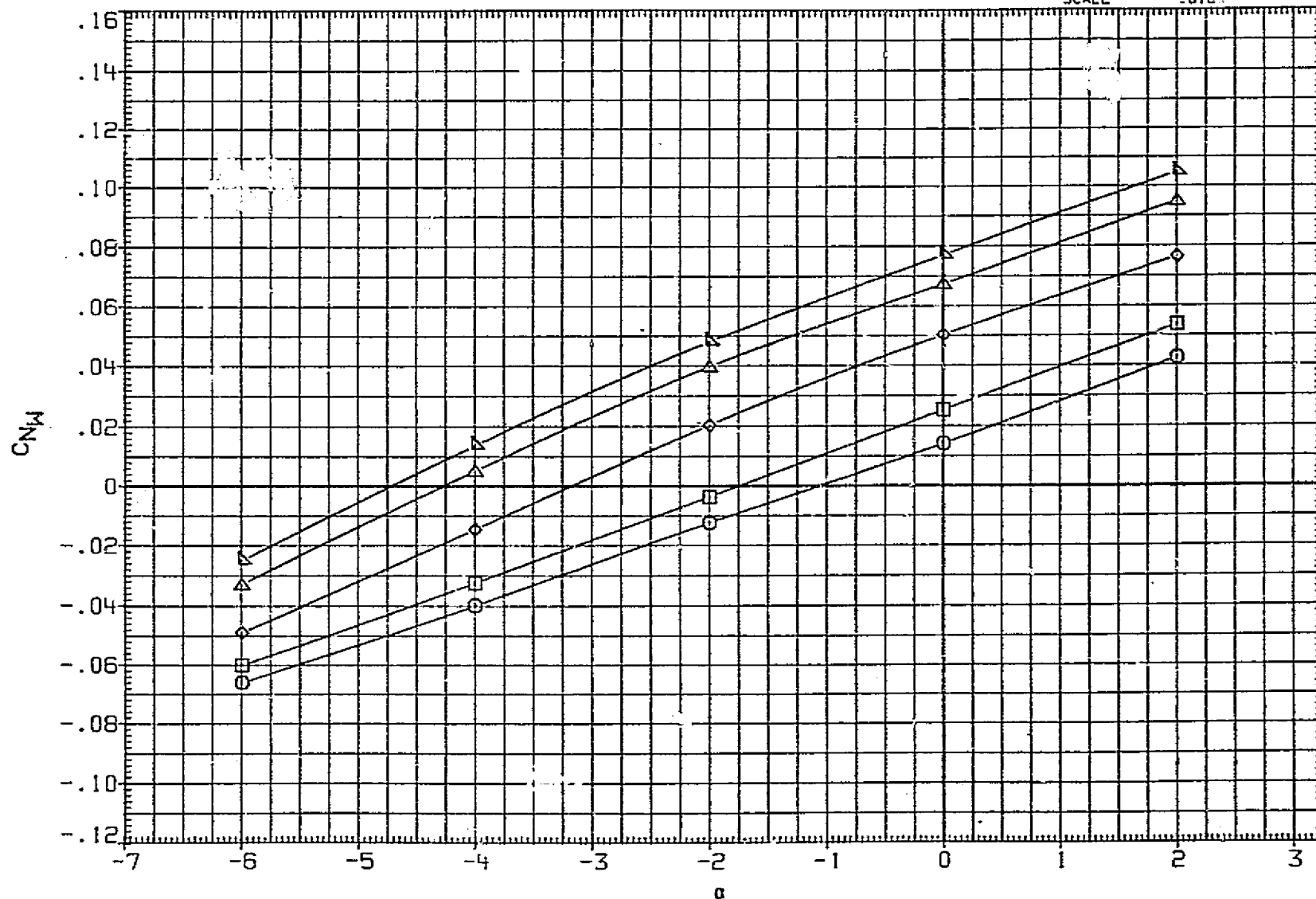


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2590.0000	EQ. FT.
MJJA53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.5000	INCHES
MJJA54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.5000	INCHES
MJJA55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. FT
MJJA56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. FT
								ZMRP	400.0000	IN. FT
								SCALE	.0100	

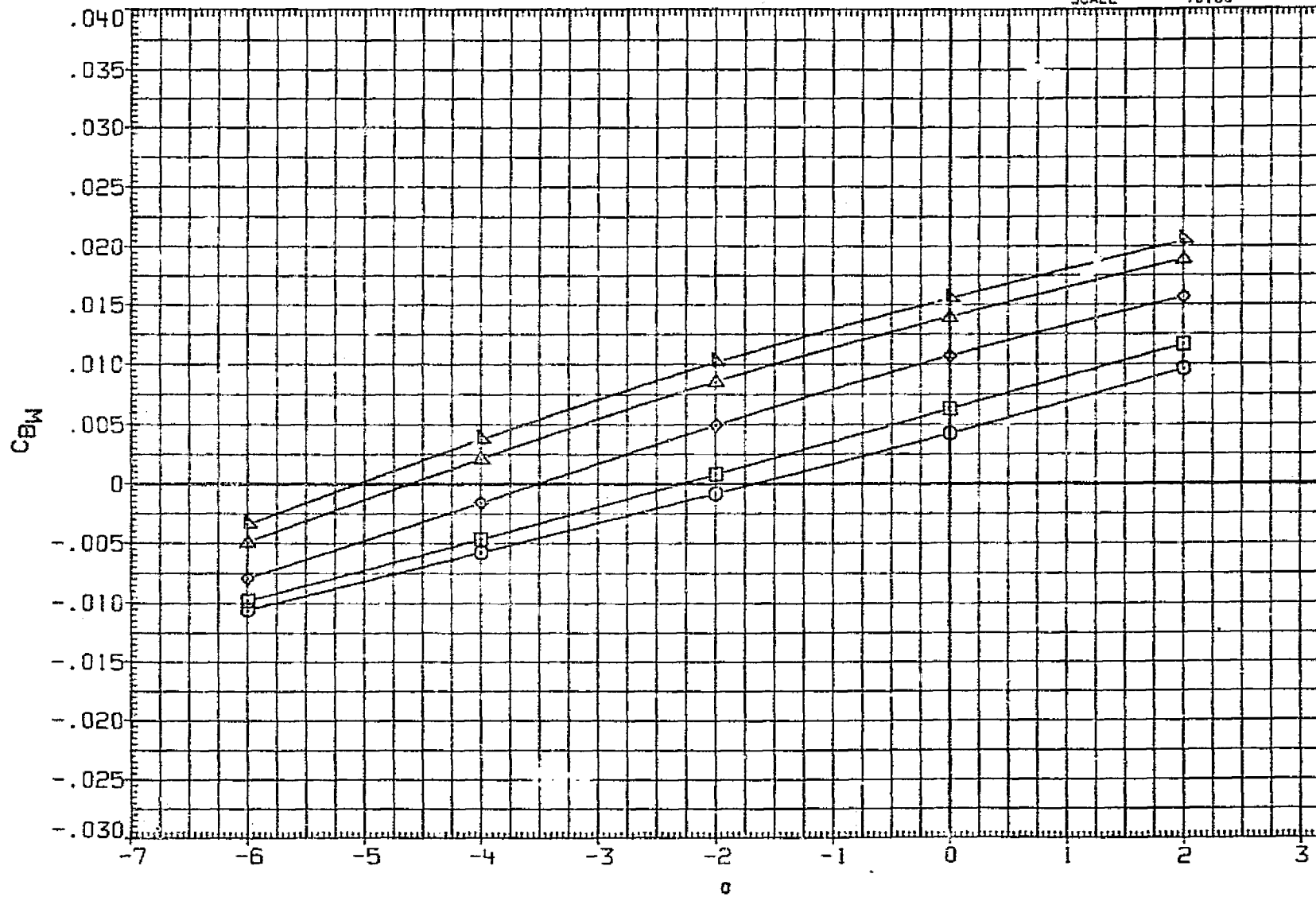


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ.FT.
MJJA53	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	□	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

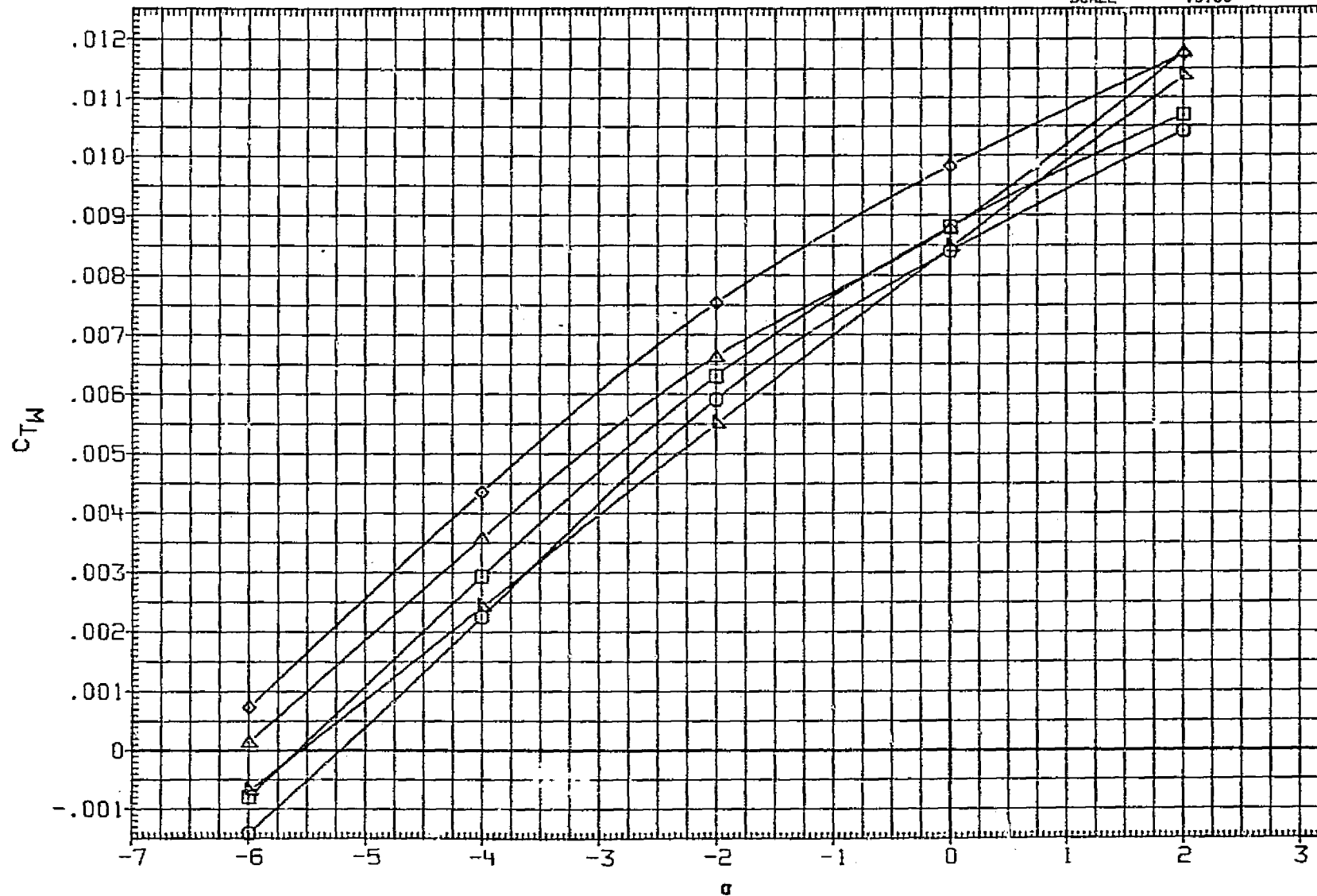


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2890.0000	SQ. FT.
MJJA53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LRFP	1299.3000	INCHES
MJJA54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BRFP	1299.3000	INCHES
MJJA55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

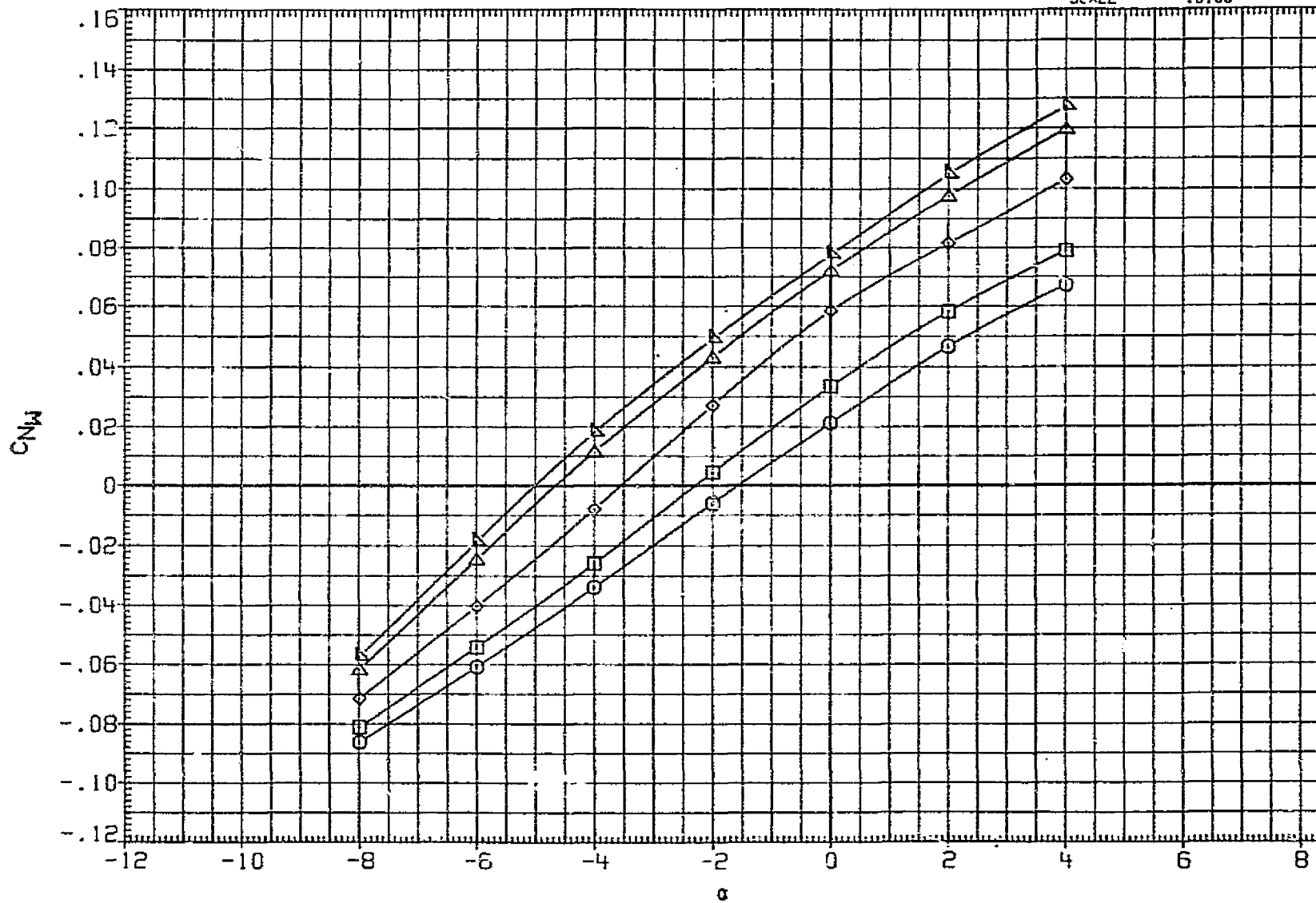


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ. FT.
MJJA53	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

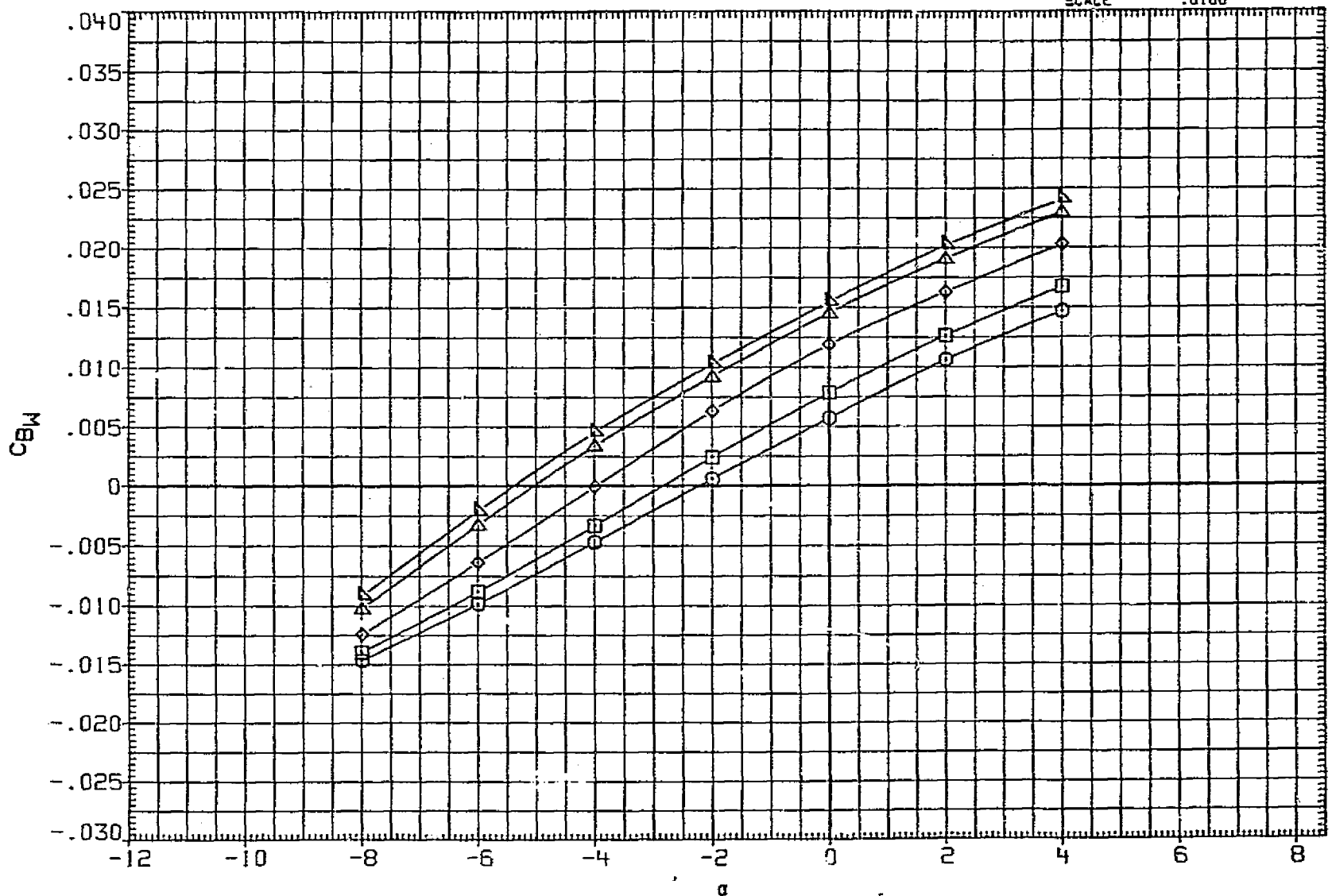


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA52	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SO. FT.
MJJA53	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJA54	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJA55	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJA56	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	



FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = 1.20

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REPRODUCIBILITY OF
ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50. FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	376.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

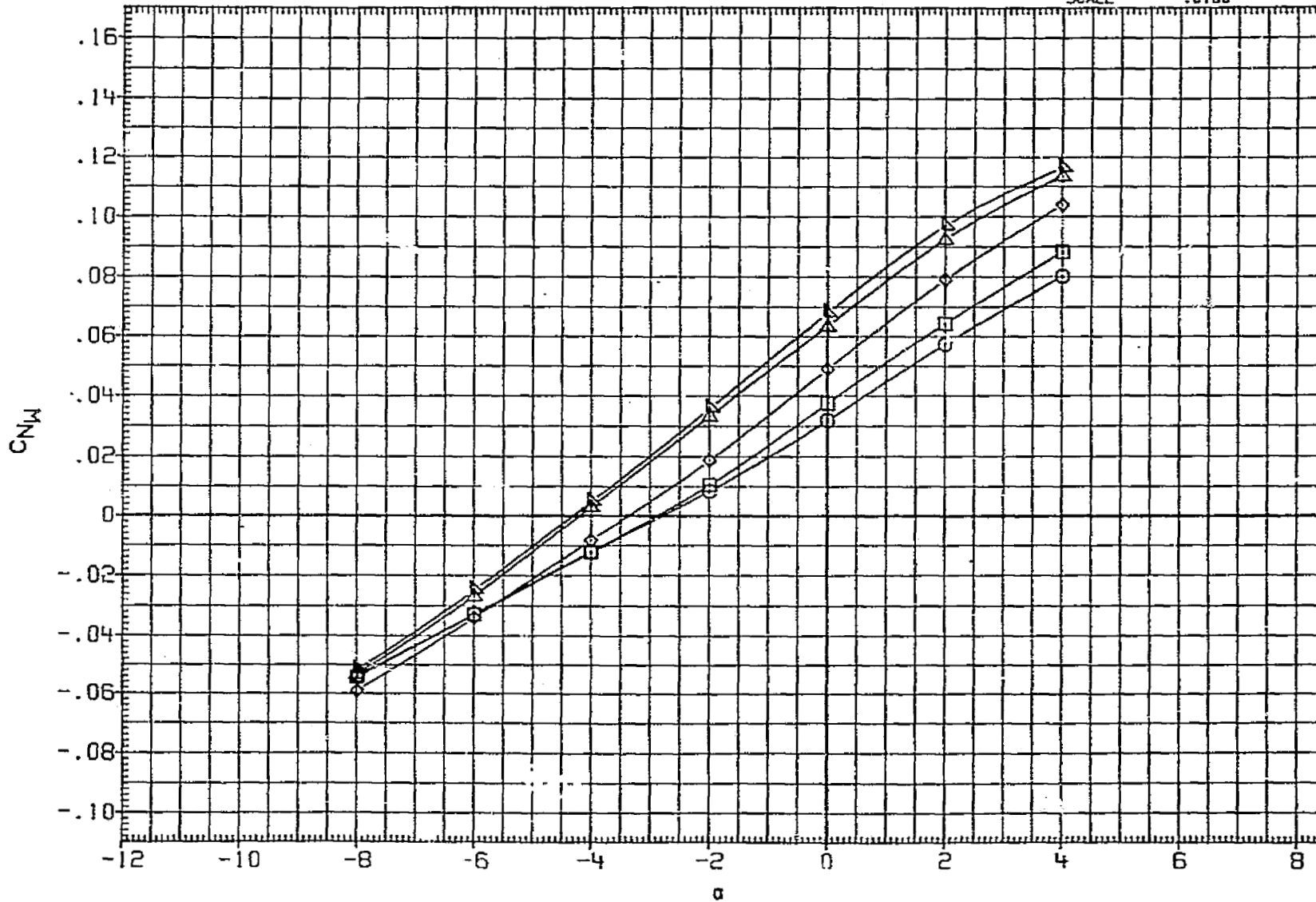


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L?	ELV-LD	ELV-RI	ELV-RD	REFERENCE INFORMATION
MJJA57	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF 2699.0000 SQ. FT.
MJJA58	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF 1299.3000 INCHES
MJJA59	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	9.000	8.000	9.000	GRF 1299.3000 INCHES
MJJA61	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP 976.0000 IN. XT
MJJA62	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

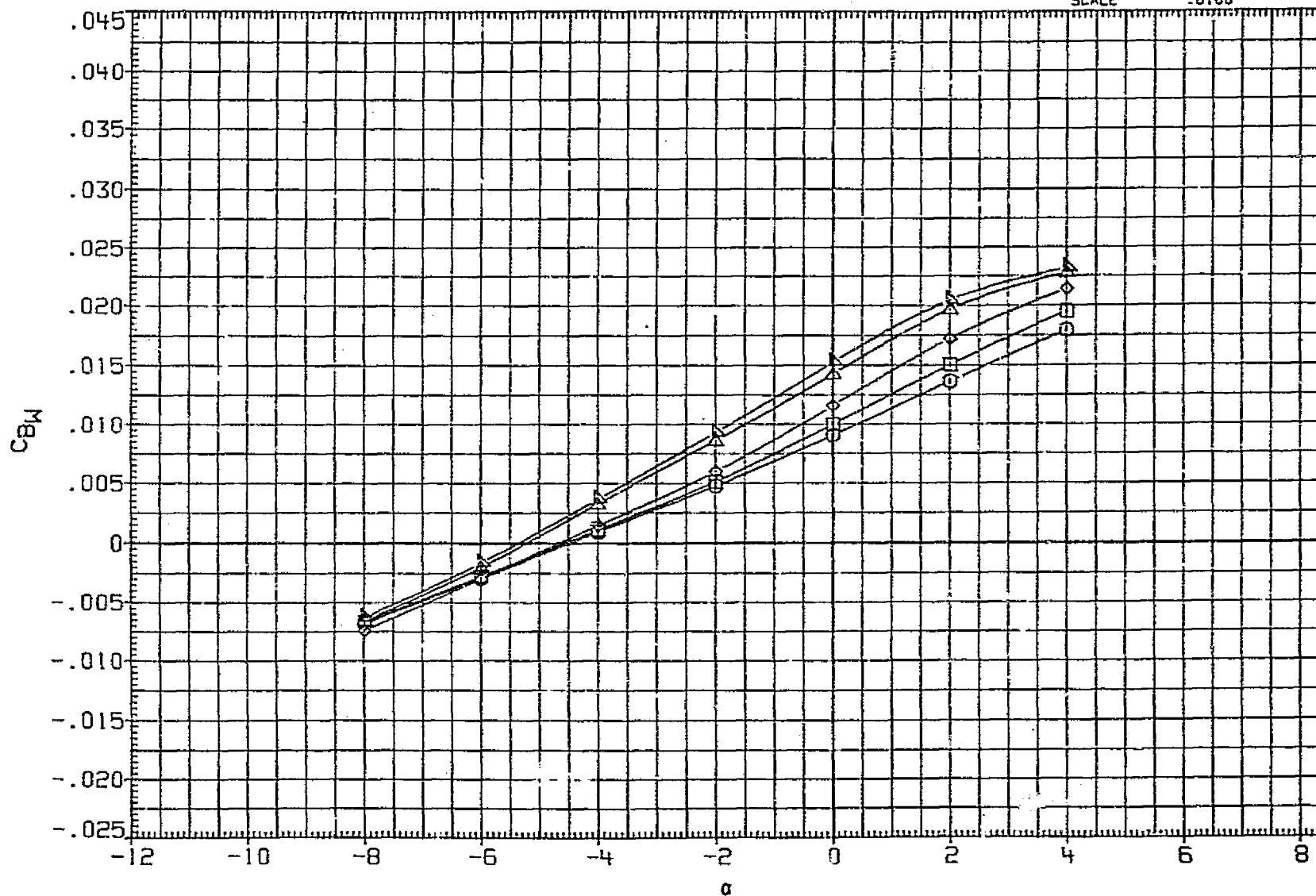


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJA57	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000 SQ. FT.
MJJA58	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000 INCHES
MJJA59	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000 INCHES
MJJA61	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000 IN. XT
MJJA62	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

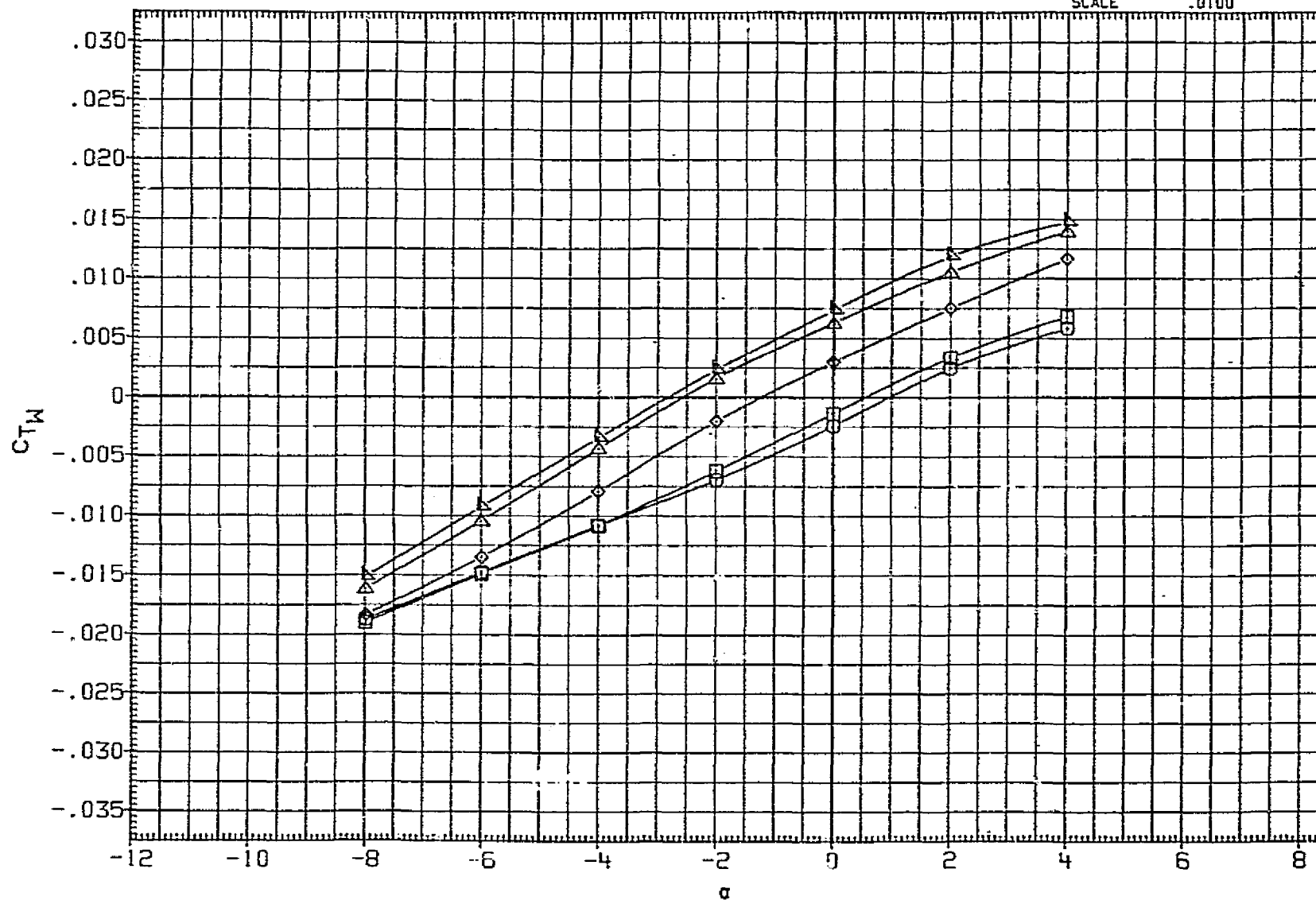


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA57	○	LARC 6FT TPT 749 (IA93) OTSAT130	-8.000	8.000	9.000	8.000	9.000	REF 8000.0000 SQ. FT
MJJA58	□	LARC 6FT TPT 749 (IA93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	REF 1800.0000 INCHES
MJJA59	◇	LARC 6FT TPT 749 (IA93) OTSAT130	.000	8.000	9.000	8.000	9.000	REF 1200.0000 INCHES
MJJA61	△	LARC 6FT TPT 749 (IA93) OTSAT130	4.000	8.000	9.000	8.000	9.000	YMRP 976.0000 IN. XT
MJJA62	▽	LARC 6FT TPT 749 (IA93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP .0000 IN. XT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

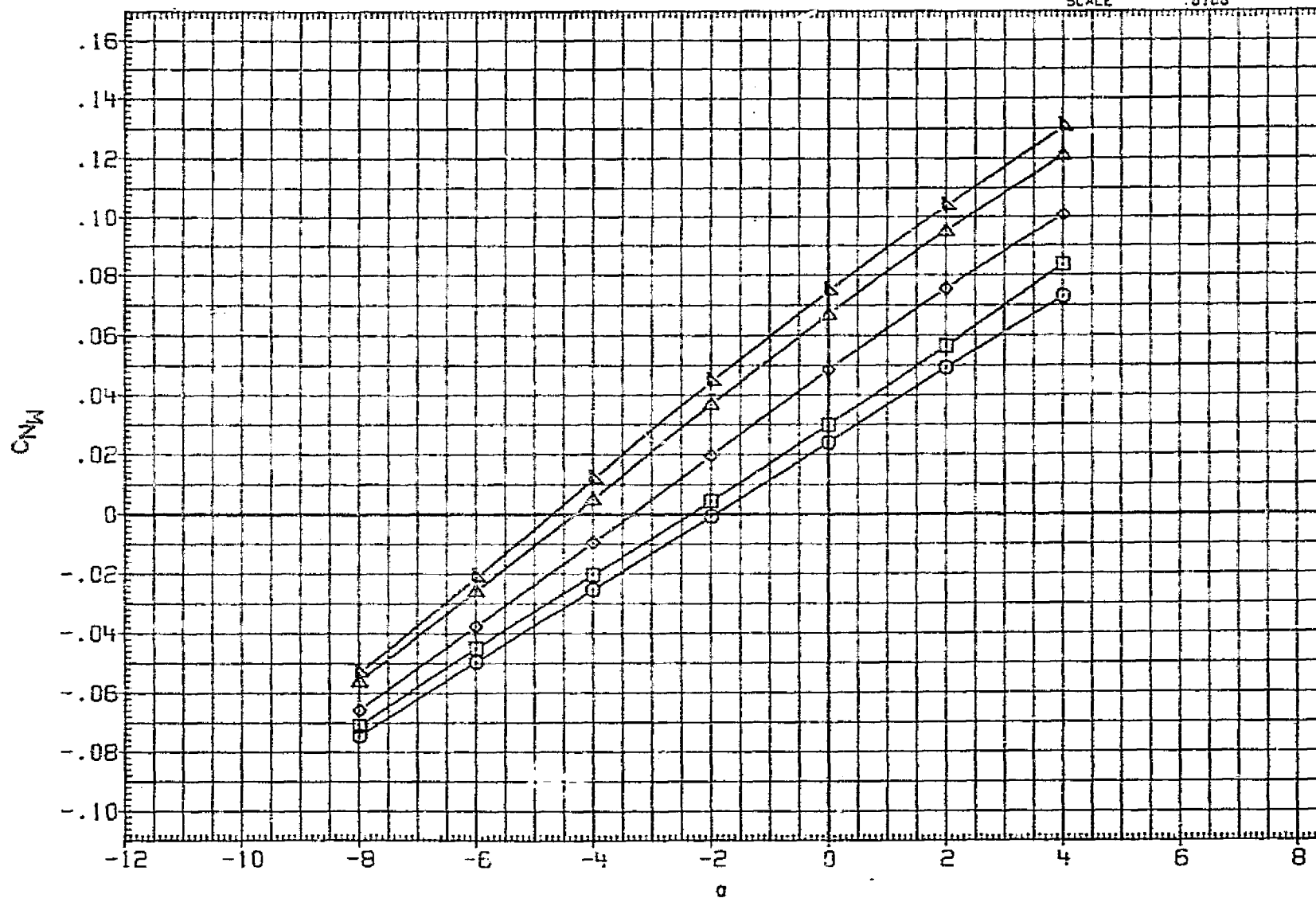


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ. FT.
MJJA58	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

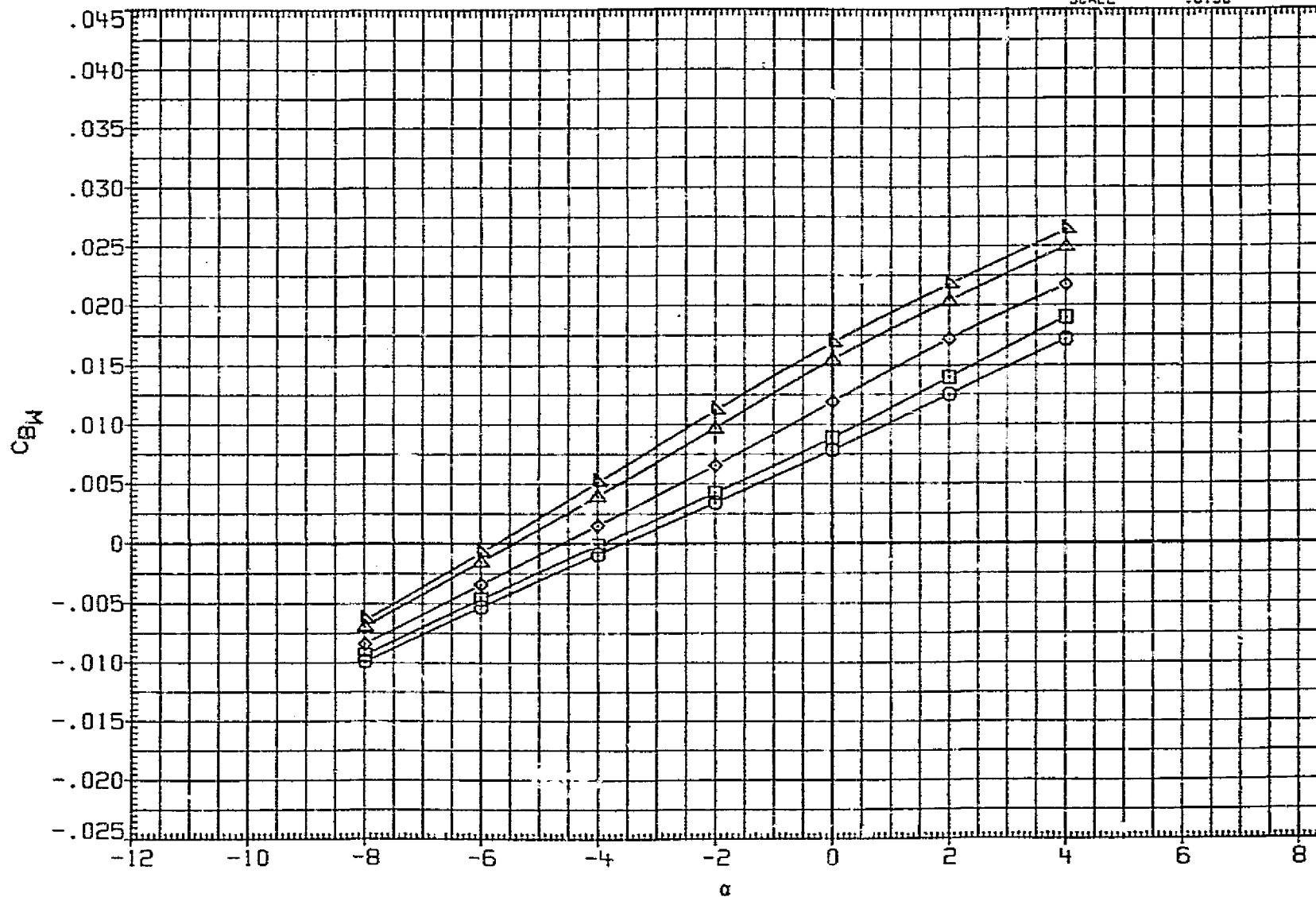


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LC	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	WPP	889.0000	80. FT.
MJJA59	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	WPP	1000.0000	70. FT.
MJJA58	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-2.000	8.000	9.000	8.000	9.000	WPP	1000.0000	70. FT.
MJJA51	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	WPP	675.0000	70. FT.
MJJA52	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	WPP	400.0000	70. FT.
								ZMP	.0000	IN. XT
								ZMP	400.0000	IN. XT
								SCALE	.0100	

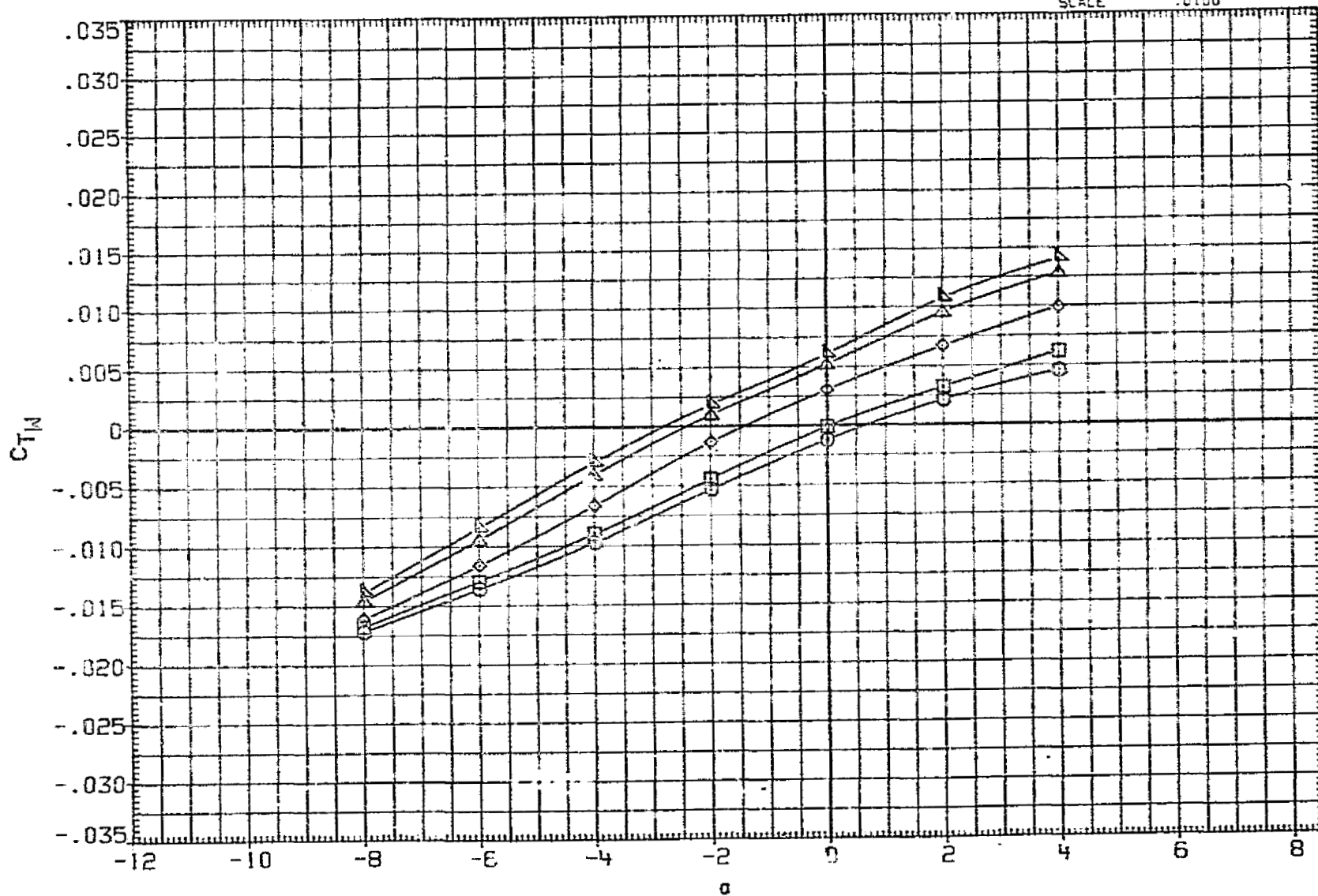


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(B) MACH = 98

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DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJA57	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF 2690.0000 SQ.FT.
MJJA58	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF 1290.3000 INCHES
MJJA59	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF 1290.3000 INCHES
MJJA61	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP 976.0000 IN. XT
MJJA62	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

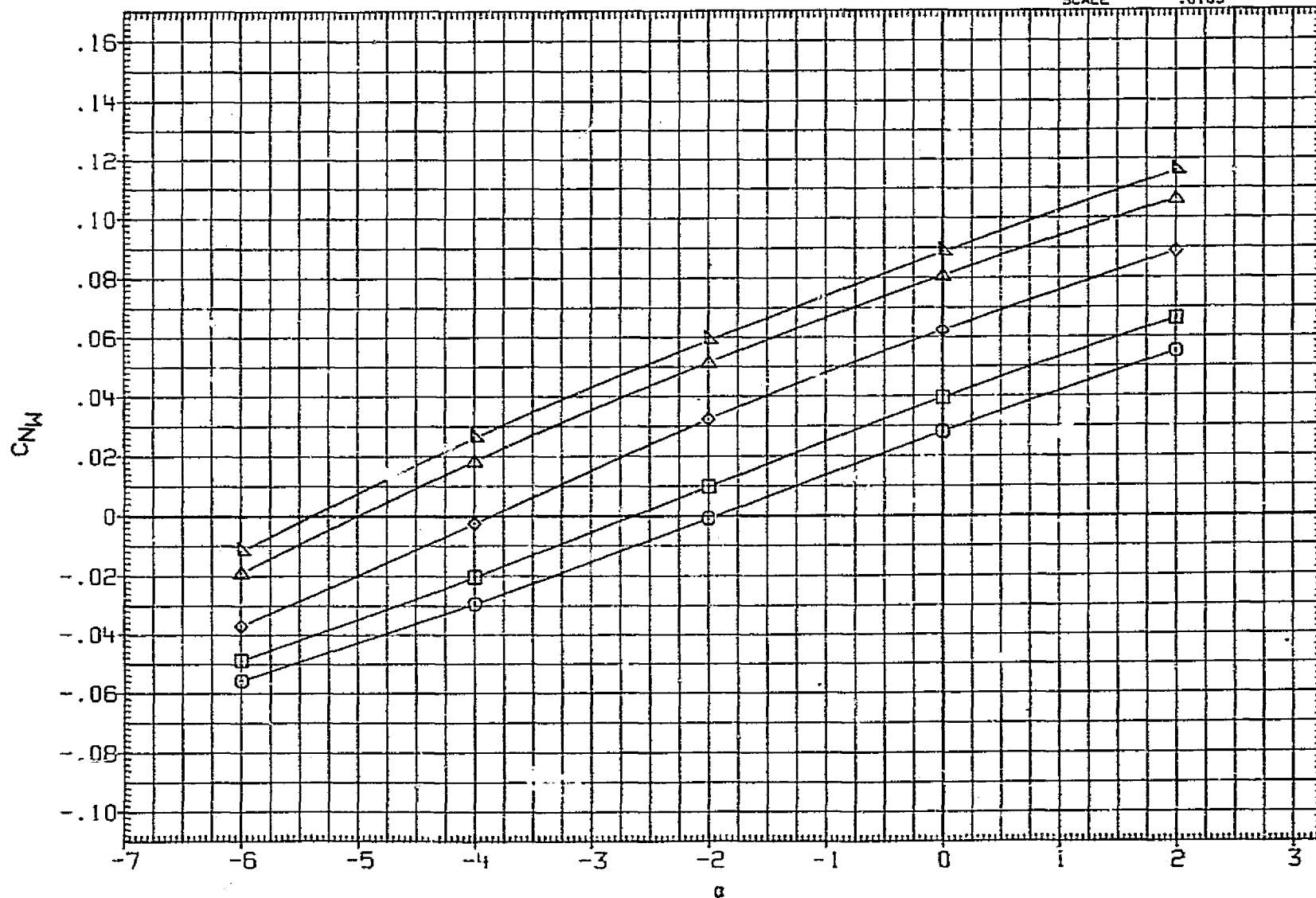


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC BFT TPT 749 (IA93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2650.0000	SQ.FT.
MJJA58	□	LARC BFT TPT 749 (IA93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC BFT TPT 749 (IA93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC BFT TPT 749 (IA93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC BFT TPT 749 (IA93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

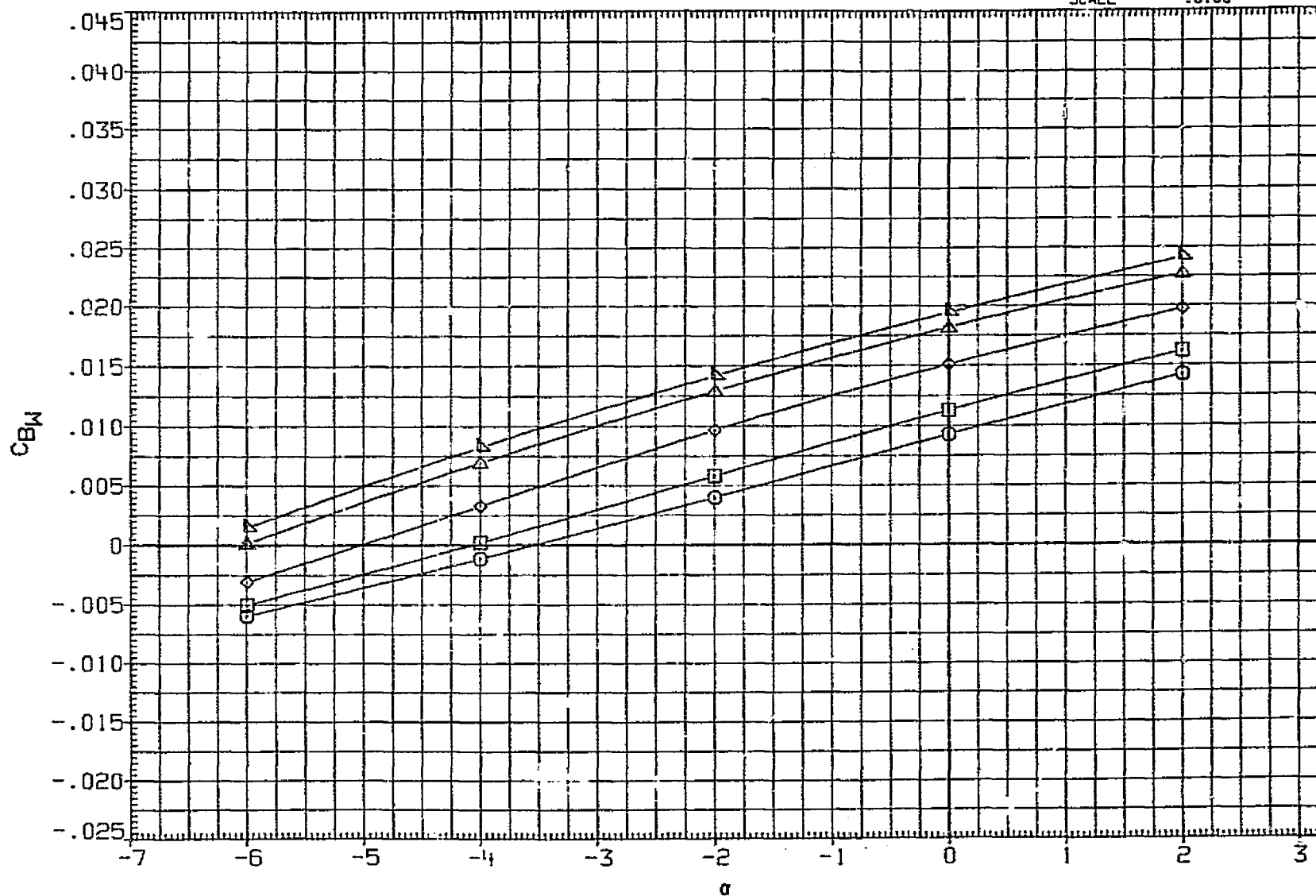


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(C) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

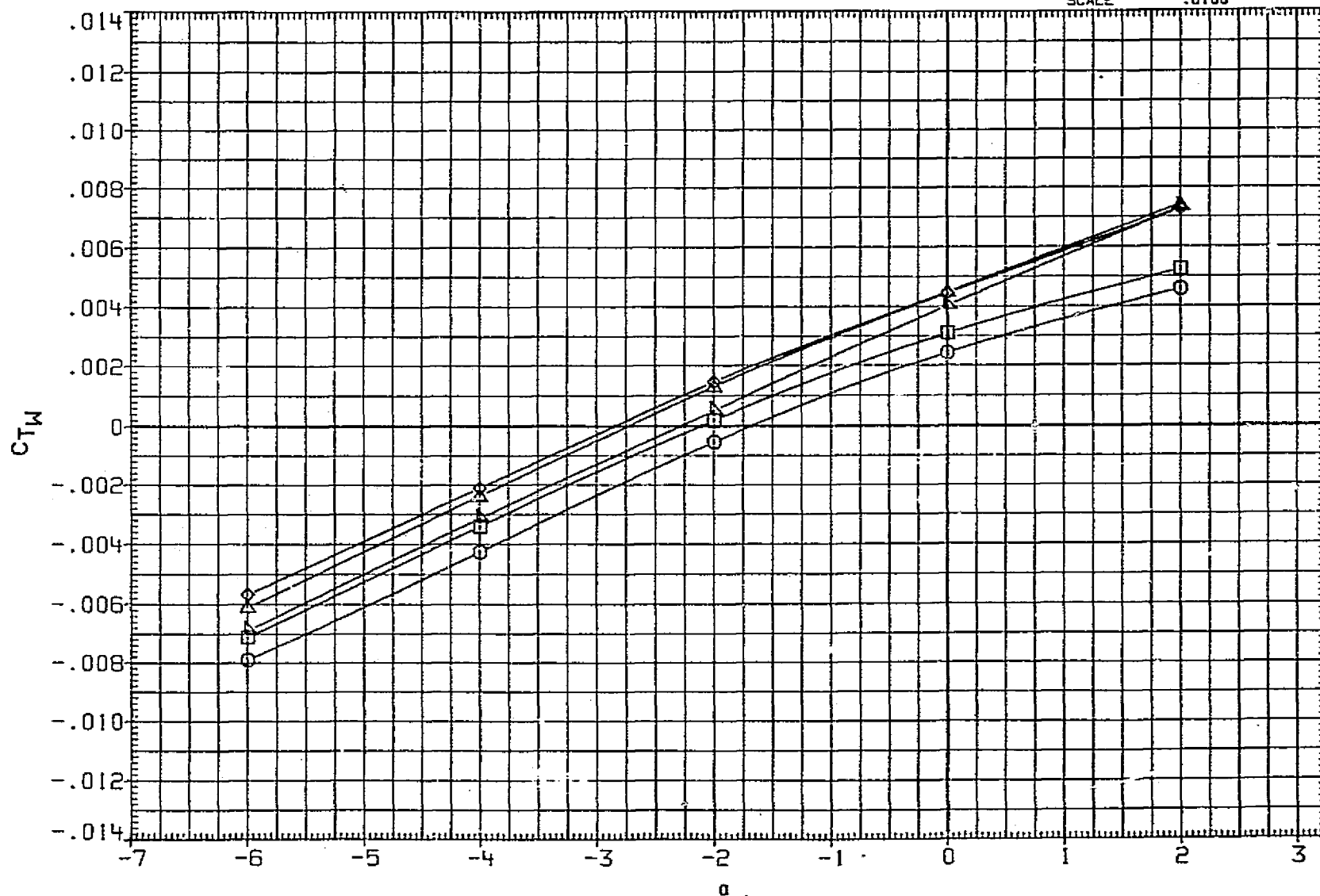


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ. FT.
MJJA58	◇	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	□	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

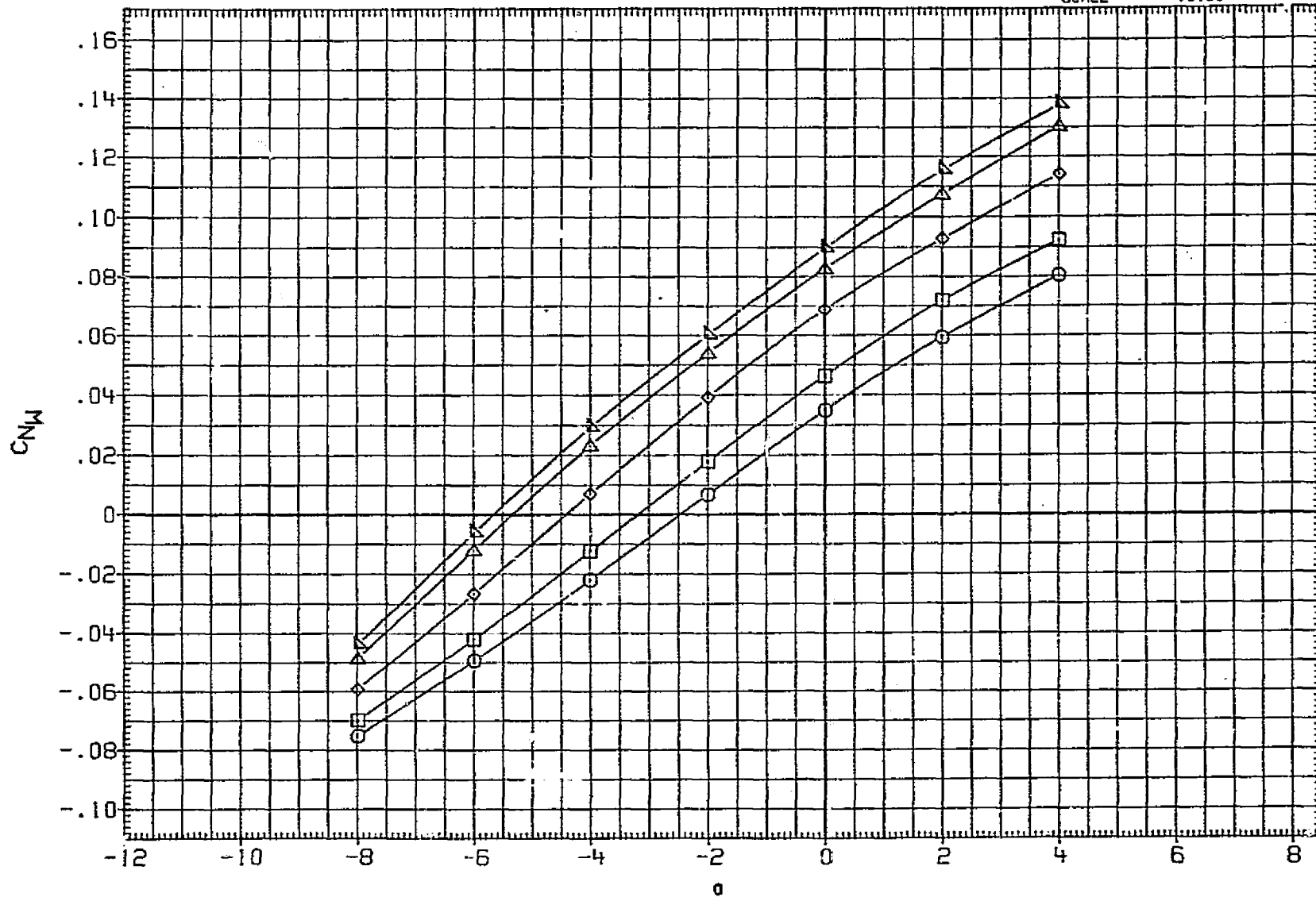


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

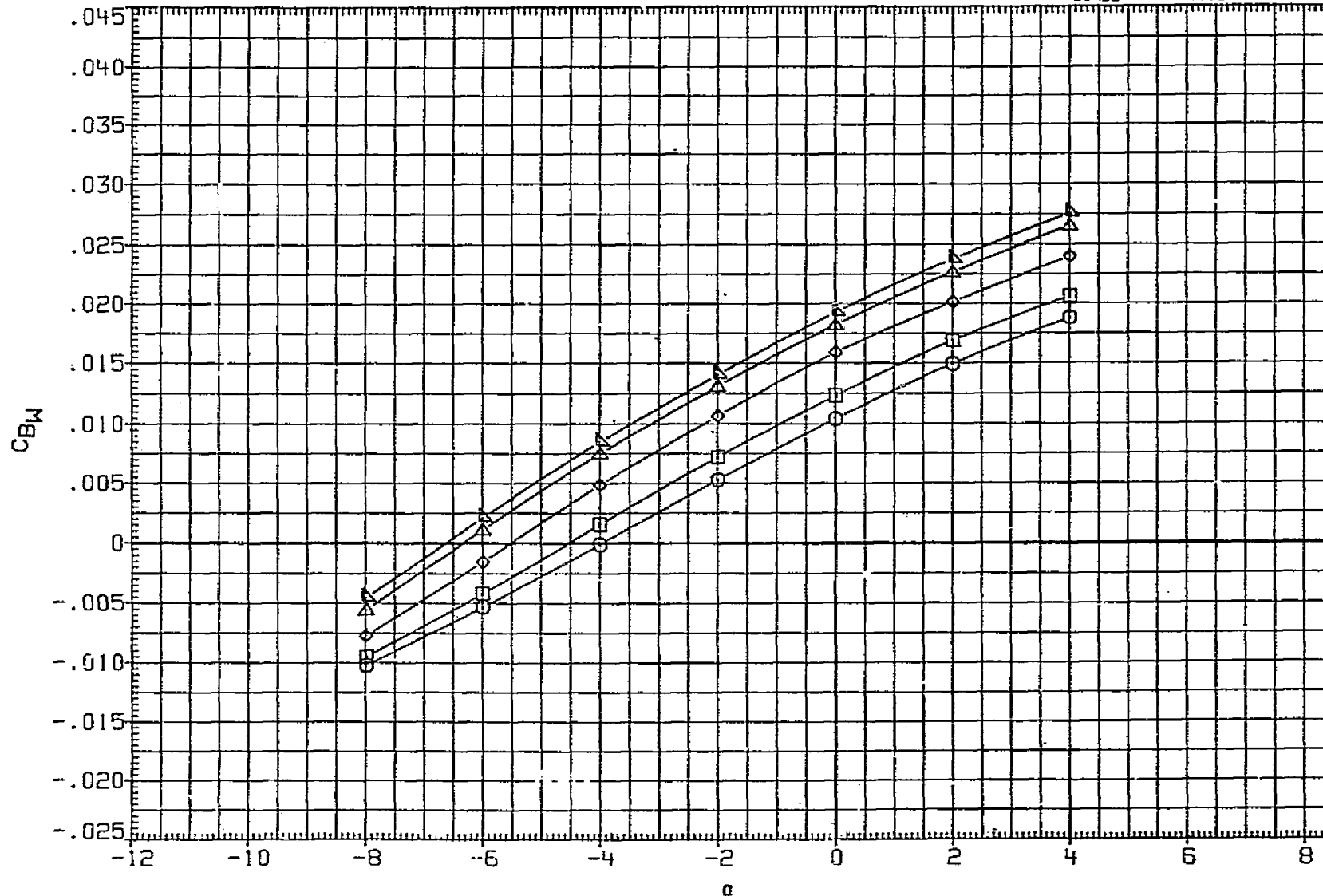


FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJA57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	100.0000	50. FT.
MJJA58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJA59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJA61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJA62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	



FIG. 6 ORBITER WING SHEAR, BENDING, AND TORSION COEFFICIENTS

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ802	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ.FT.
MJJ803	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT	
MJJ806	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

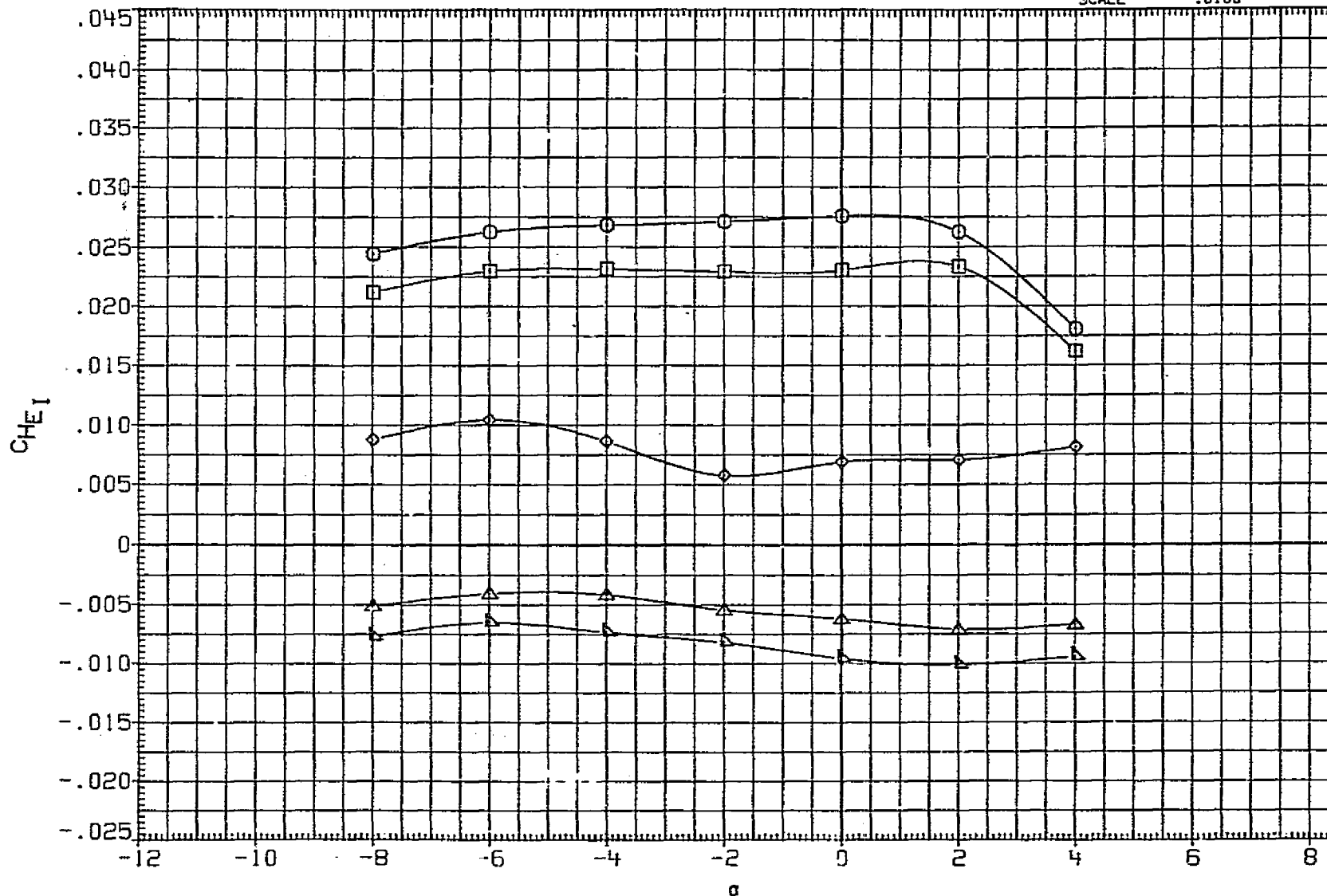


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ802	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2630.0000	SQ. FT.
MJJ803	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1299.3000	INCHES
MJJ804	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1299.3000	INCHES
MJJ805	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJ806	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

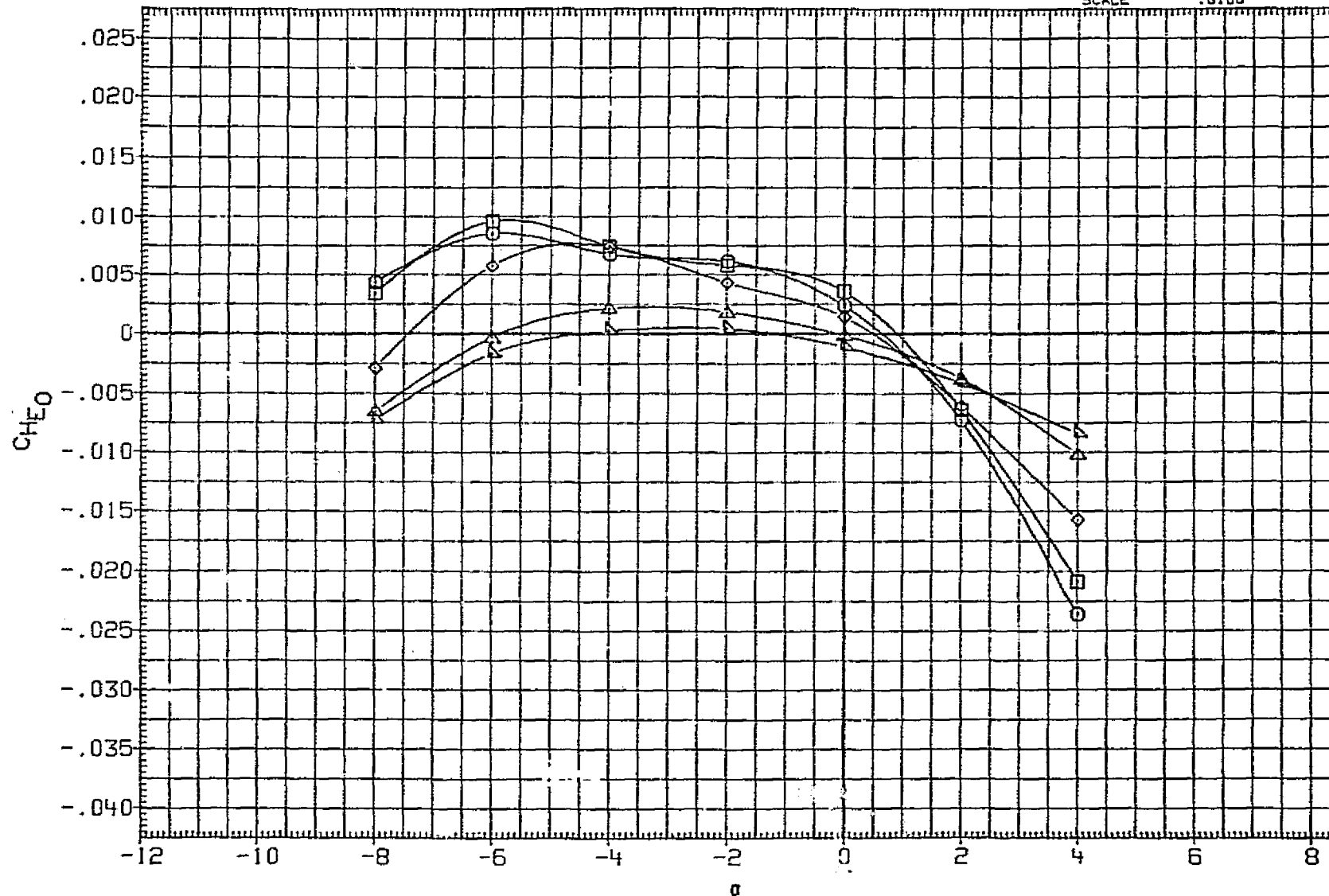


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ802	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50. FT.
MJJ803	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJ806	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

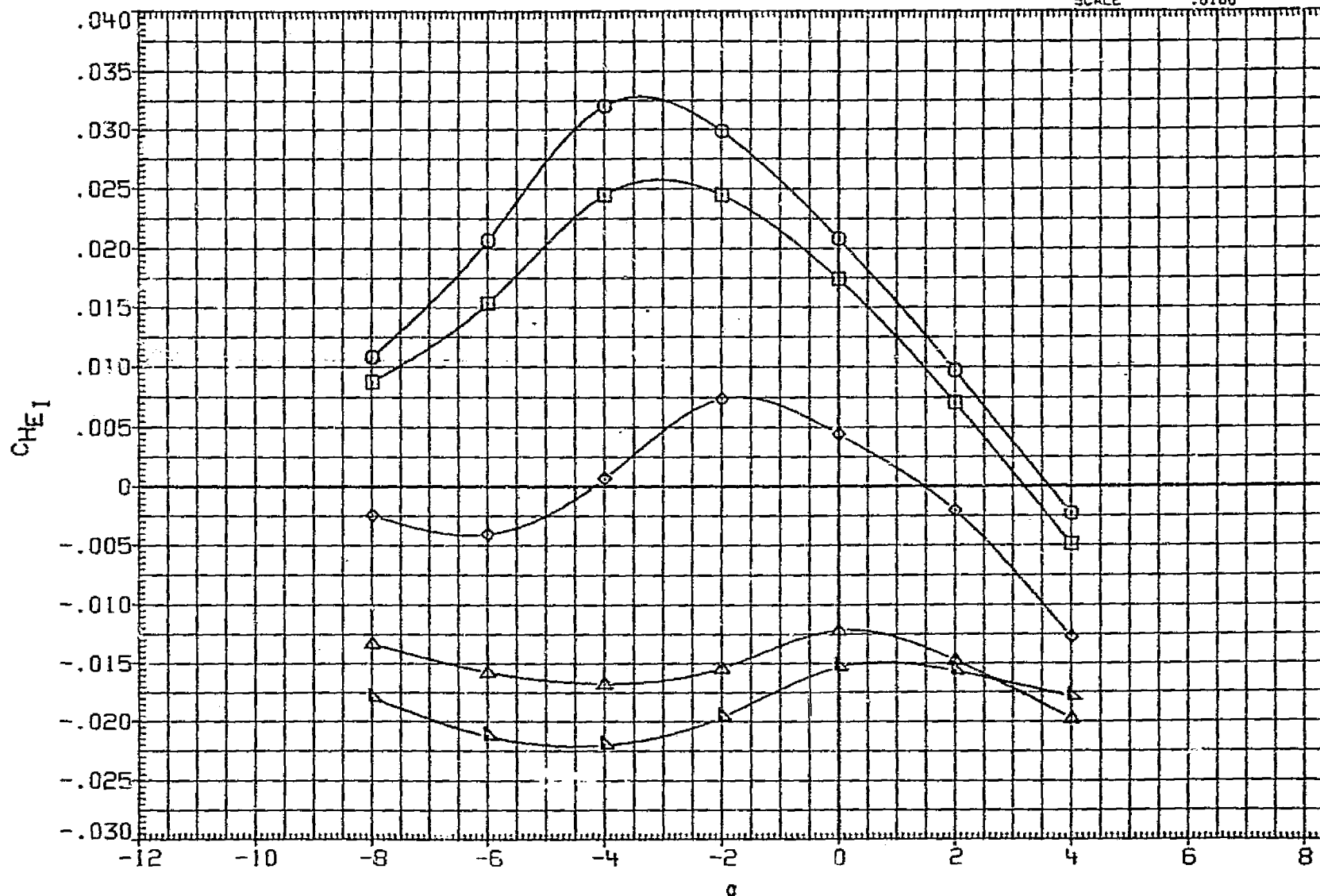


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ802	○ LARC BFT IPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	90. FT.
MJJ803	□ LARC BFT IPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJ804	◇ LARC BFT IPT 749 (1A93) OTSAT130	0.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJ805	△ LARC BFT IPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	975.0000	IN. XT
MJJ806	▽ LARC BFT IPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

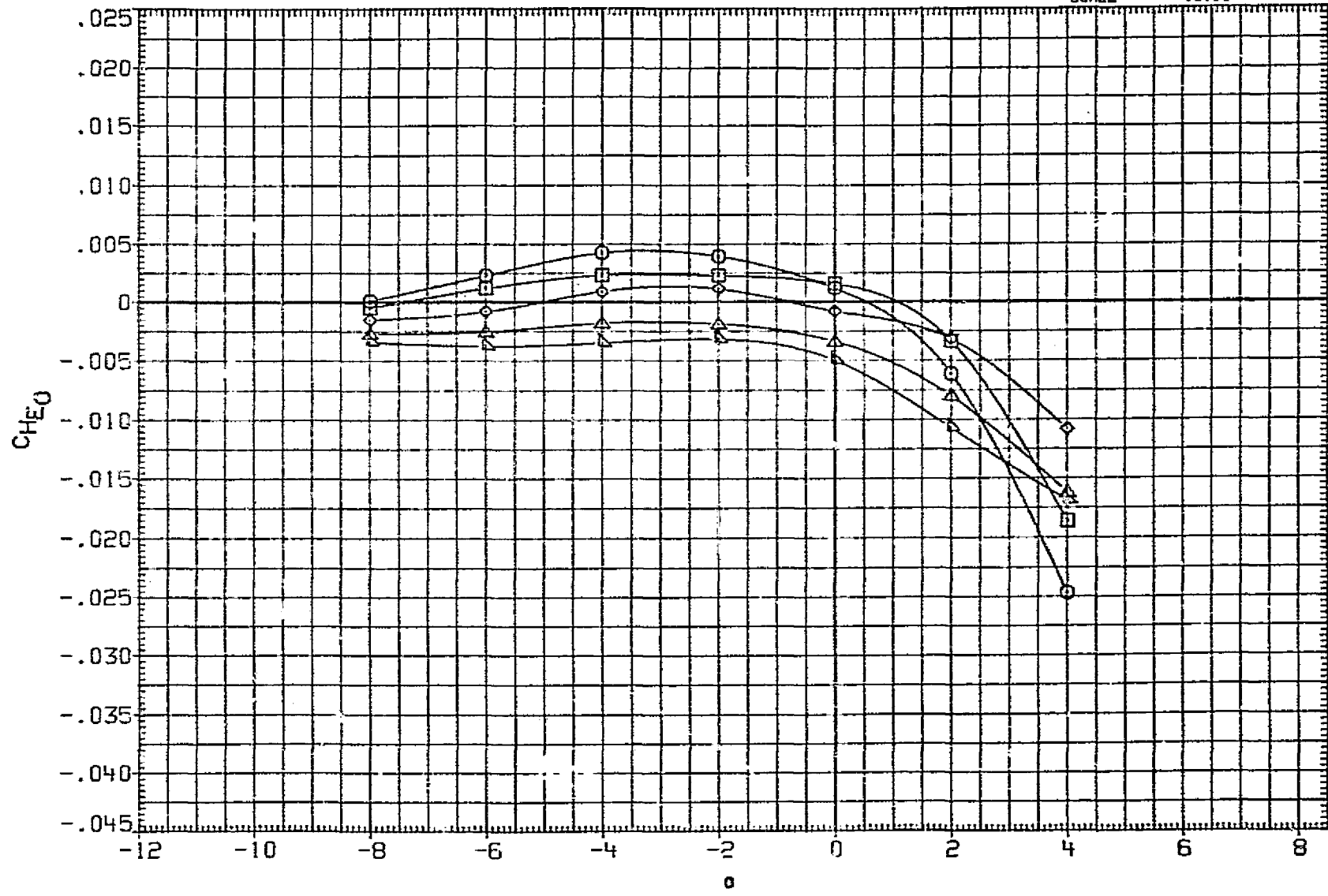


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2690.0000	SQ.FT.
MJJB03	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. X7
MJJB06	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. Y7
								ZMRP	400.0000	IN. Z7
								SCALE	.0100	

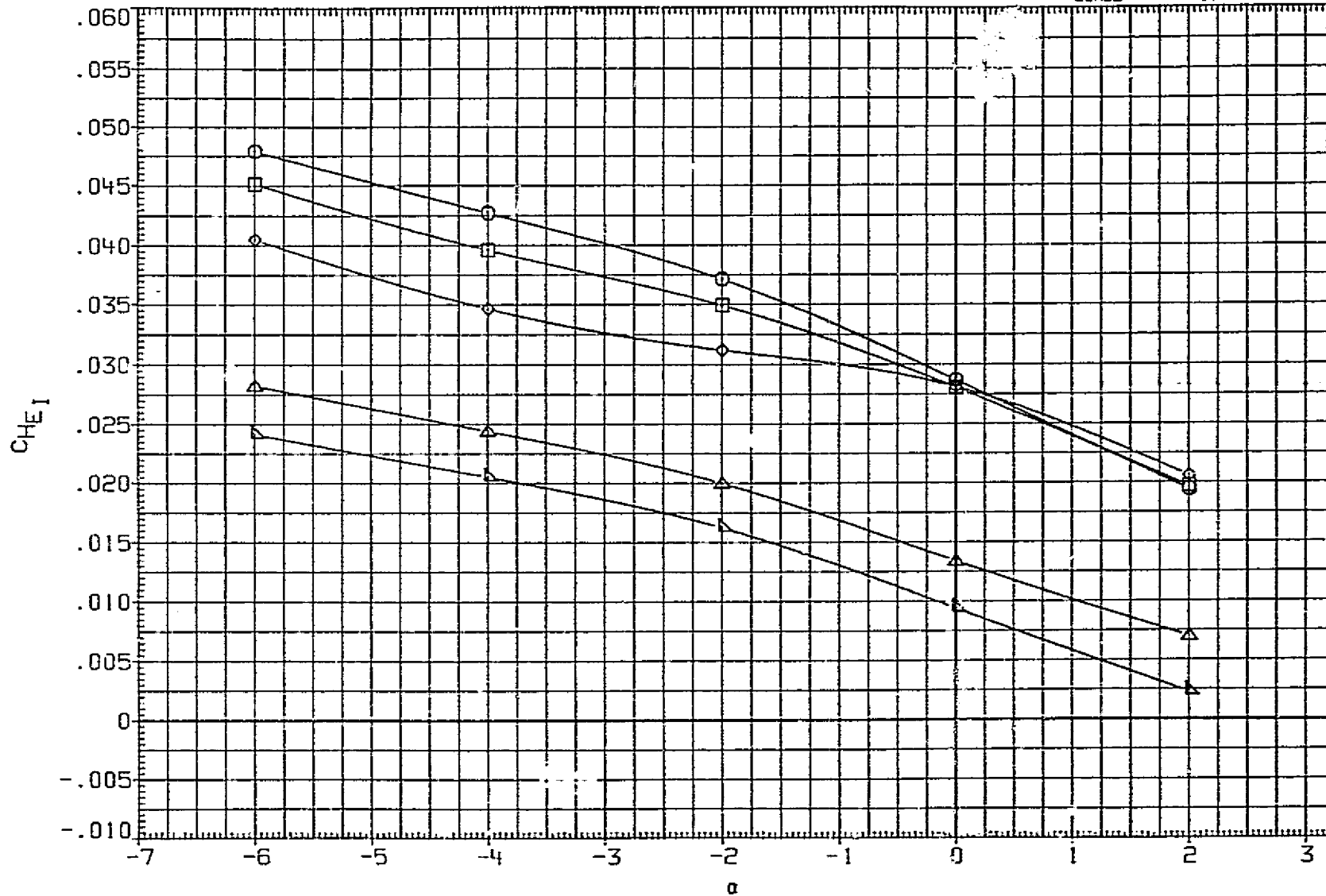


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ802	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	SREF	2890.0000	SQ.FT.
MJJ803	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1890.3000	INCHES
MJJ804	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1890.3000	INCHES
MJJ805	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJ806	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

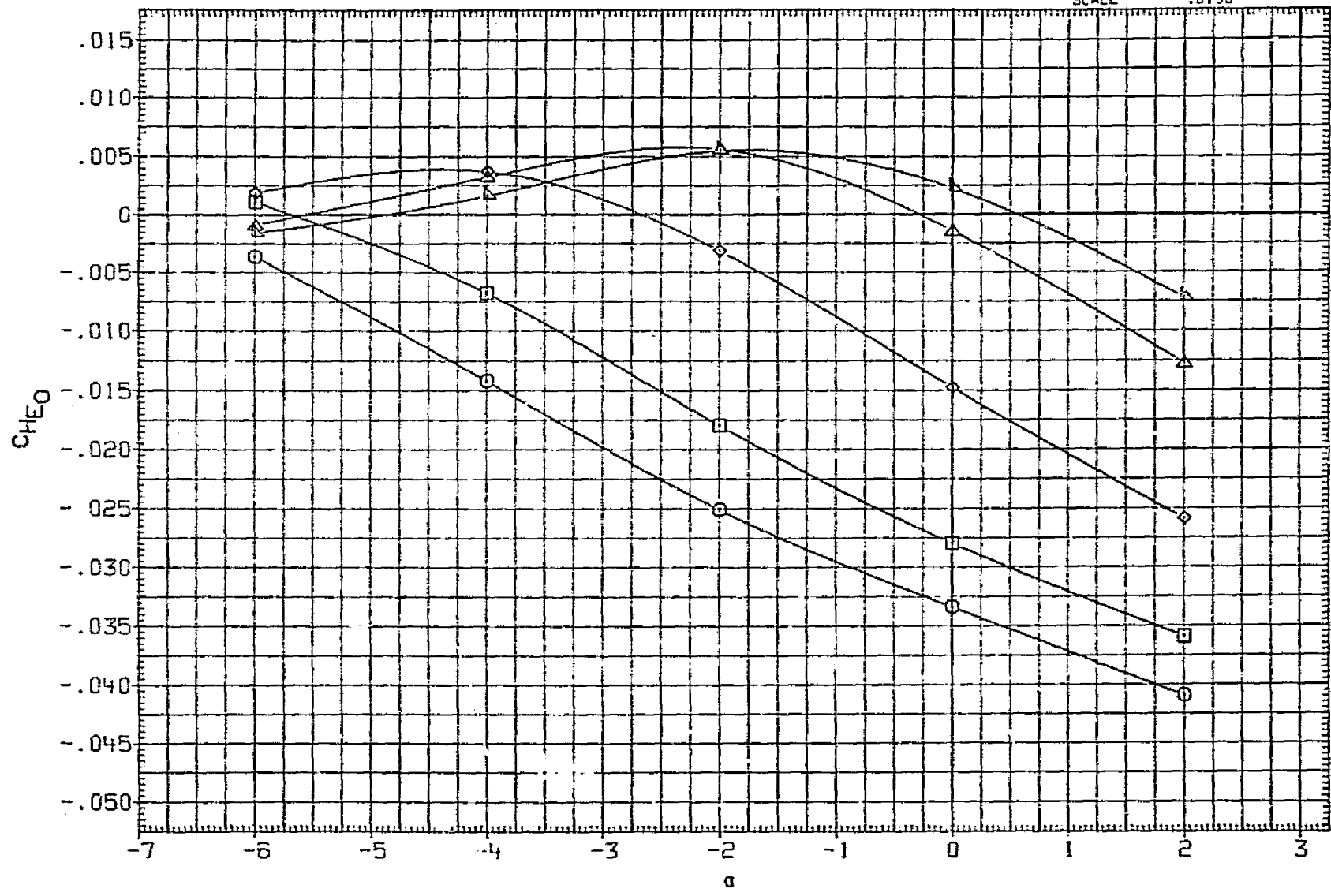


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(C)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (IA93) OTSAT130	-5.000	10.000	9.000	10.000	9.000	SREF	2690.0000	50.FT.
MJJB03	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	10.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT
MJJB06	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

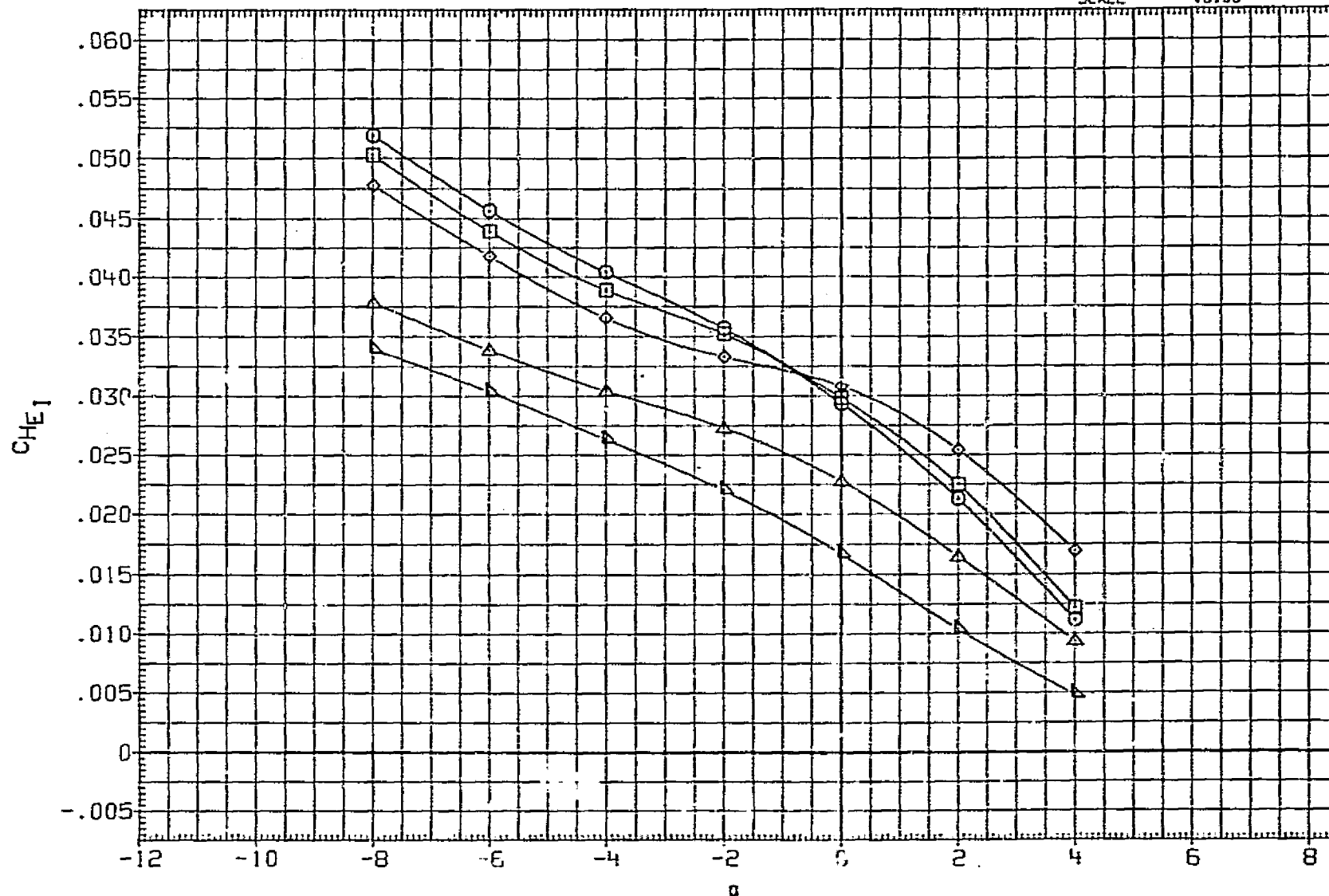


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB02	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	9.000	10.000	9.000	BREF	2690.0000	30. FT.
MJJB03	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	9.000	10.000	9.000	LREF	1290.3000	INCHES
MJJB04	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	9.000	10.000	9.000	BREF	1290.3000	INCHES
MJJB05	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	10.000	9.000	XMRP	976.0000	IN. XT	
MJJB06	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	9.000	10.000	9.000	YMRP	.0000	IN. YT
								ZMRP	402.0000	IN. ZT
								SCALE	.0100	

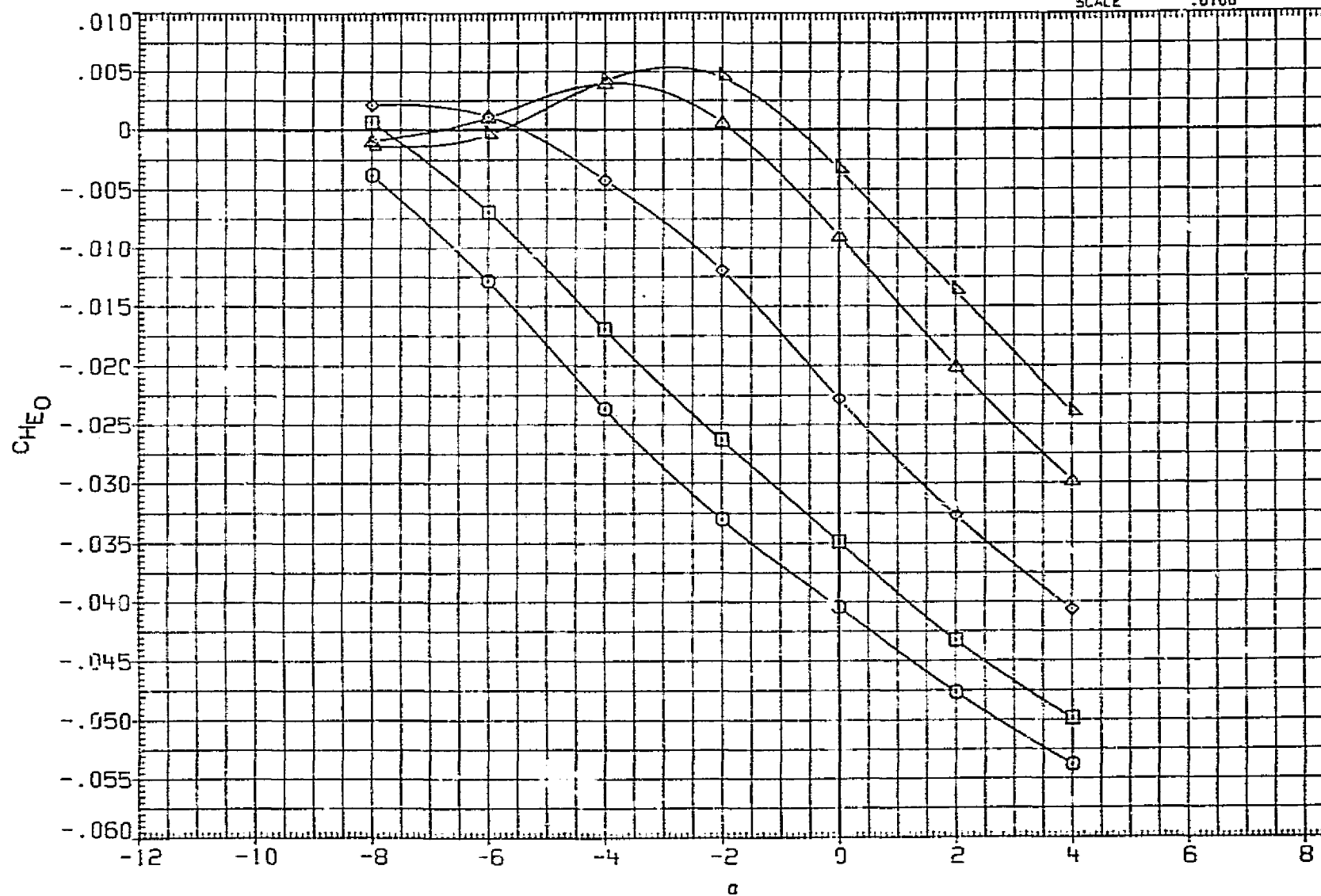


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(D)MACH = 1.20

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	.REF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

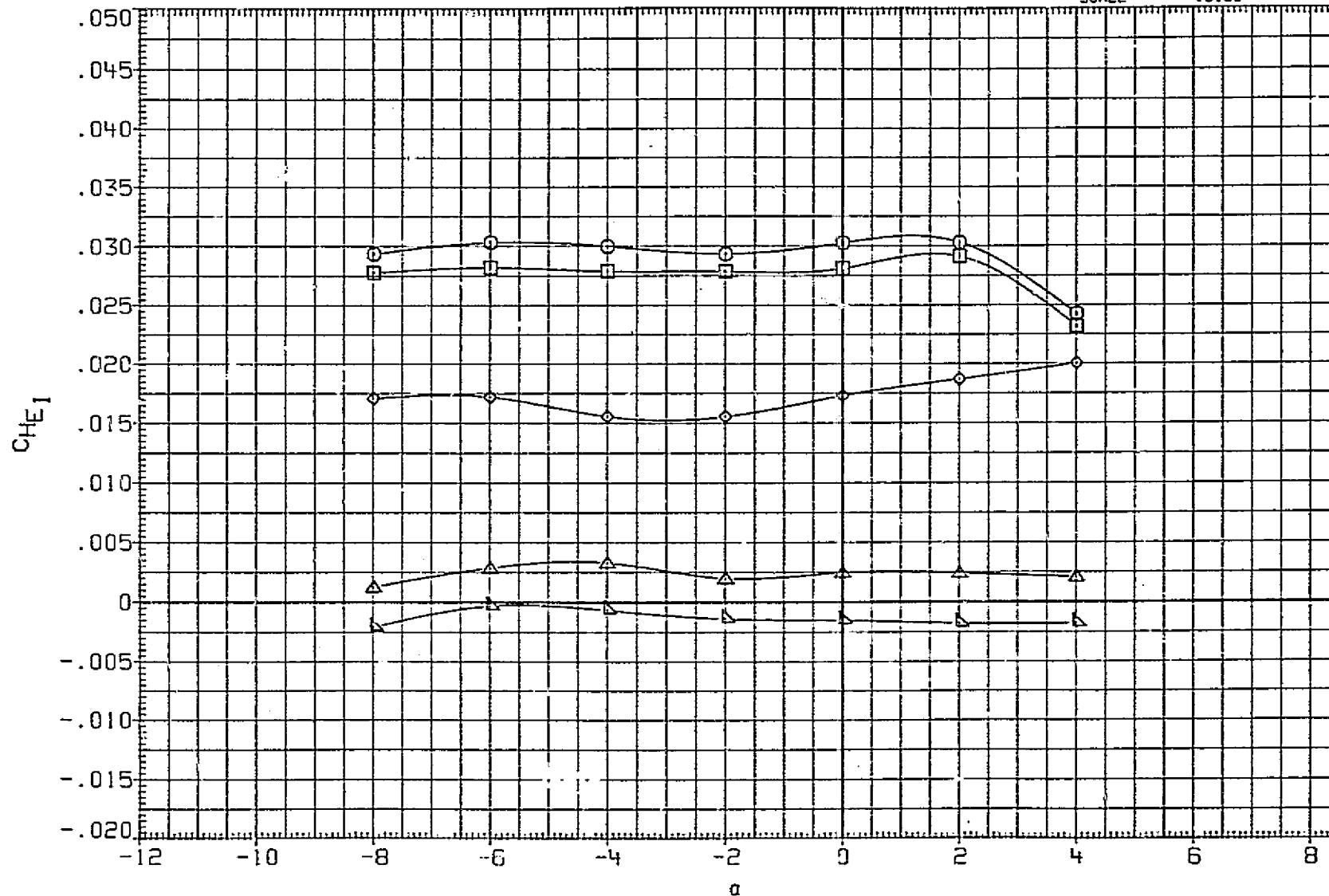


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	-0.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

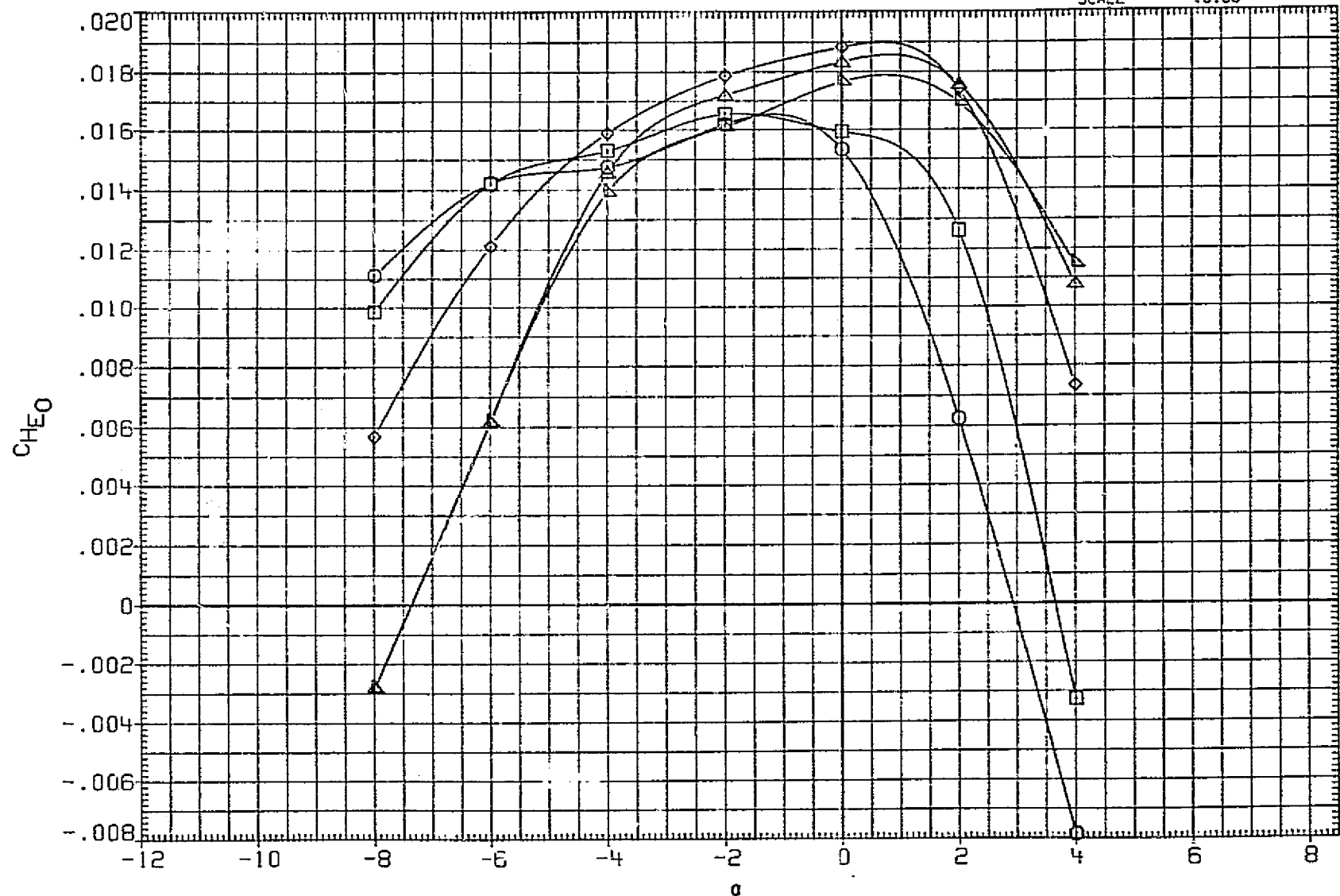


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ. FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

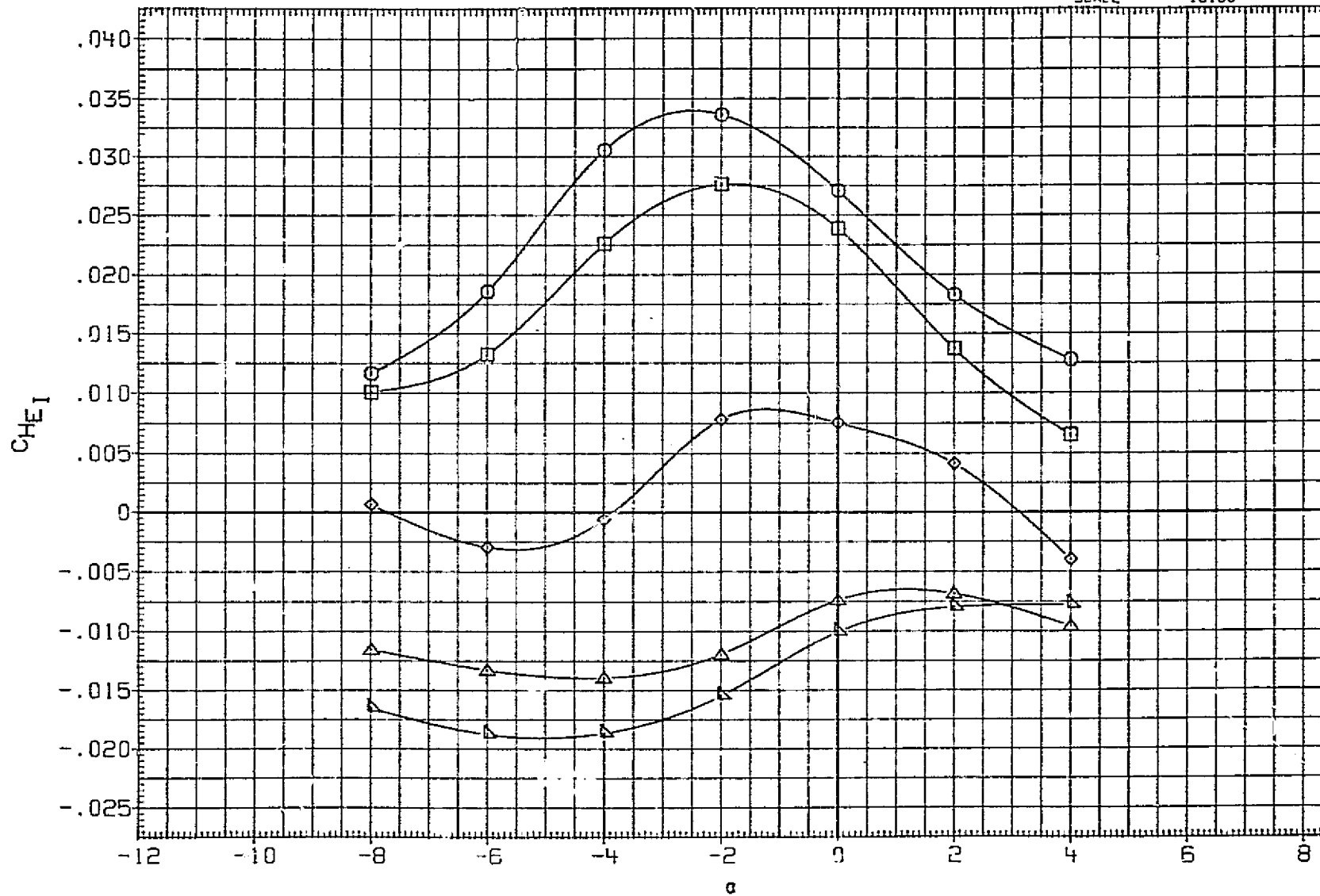


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB07	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	SQ.FT.
MJJB08	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	SREF	1290.3000	INCHES
MJJB10	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	975.0000	IN. XT
MJJB11	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

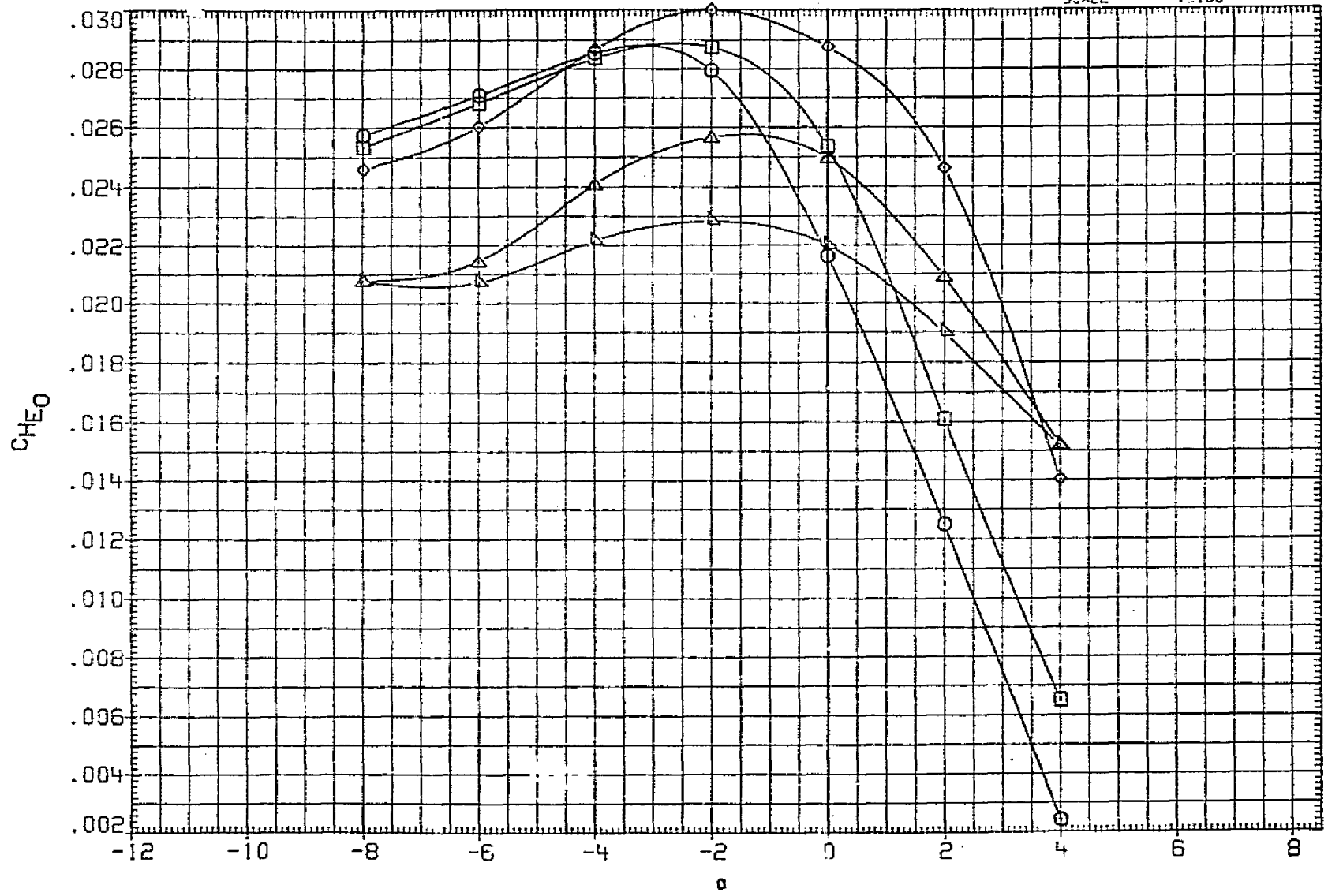


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJB10	△	LARC SFT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

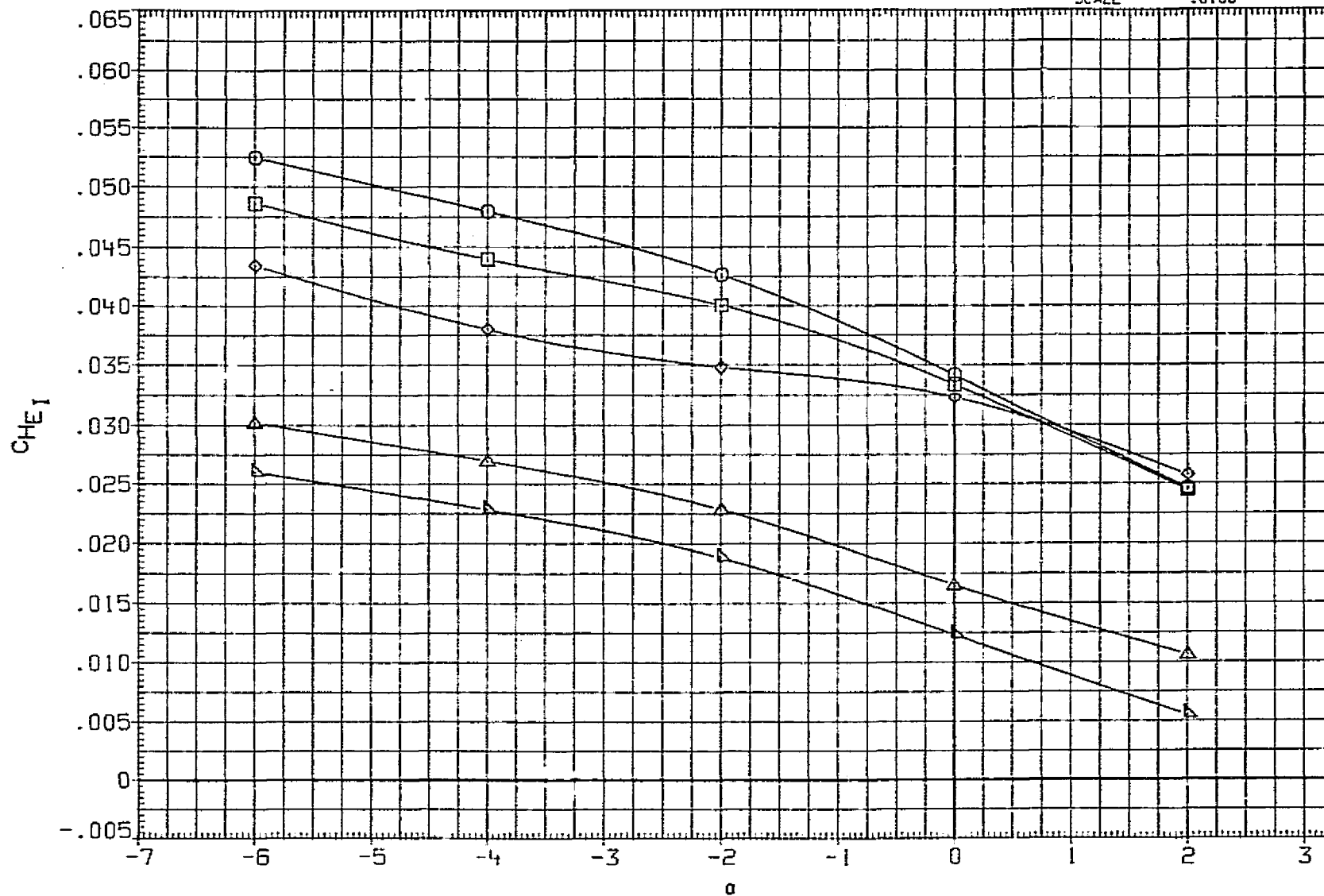


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION
MJJB07	LARC 8FT TPT 749 (1A93) OTSAT130
MJJB08	LARC 8FT TPT 749 (1A93) OTSAT130
MJJB09	LARC 8FT TPT 749 (1A93) OTSAT130
MJJB10	LARC 8FT TPT 749 (1A93) OTSAT130
MJJB11	LARC 8FT TPT 749 (1A93) OTSAT130

BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
-6.000	10.000	4.000	10.000	4.000	SREF	2890.0000	SQ. FT.
-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
4.000	10.000	4.000	10.000	4.000	XMRP	975.0000	IN. XT
6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
					ZMRP	400.0000	IN. ZT
					SCALE	.0100	

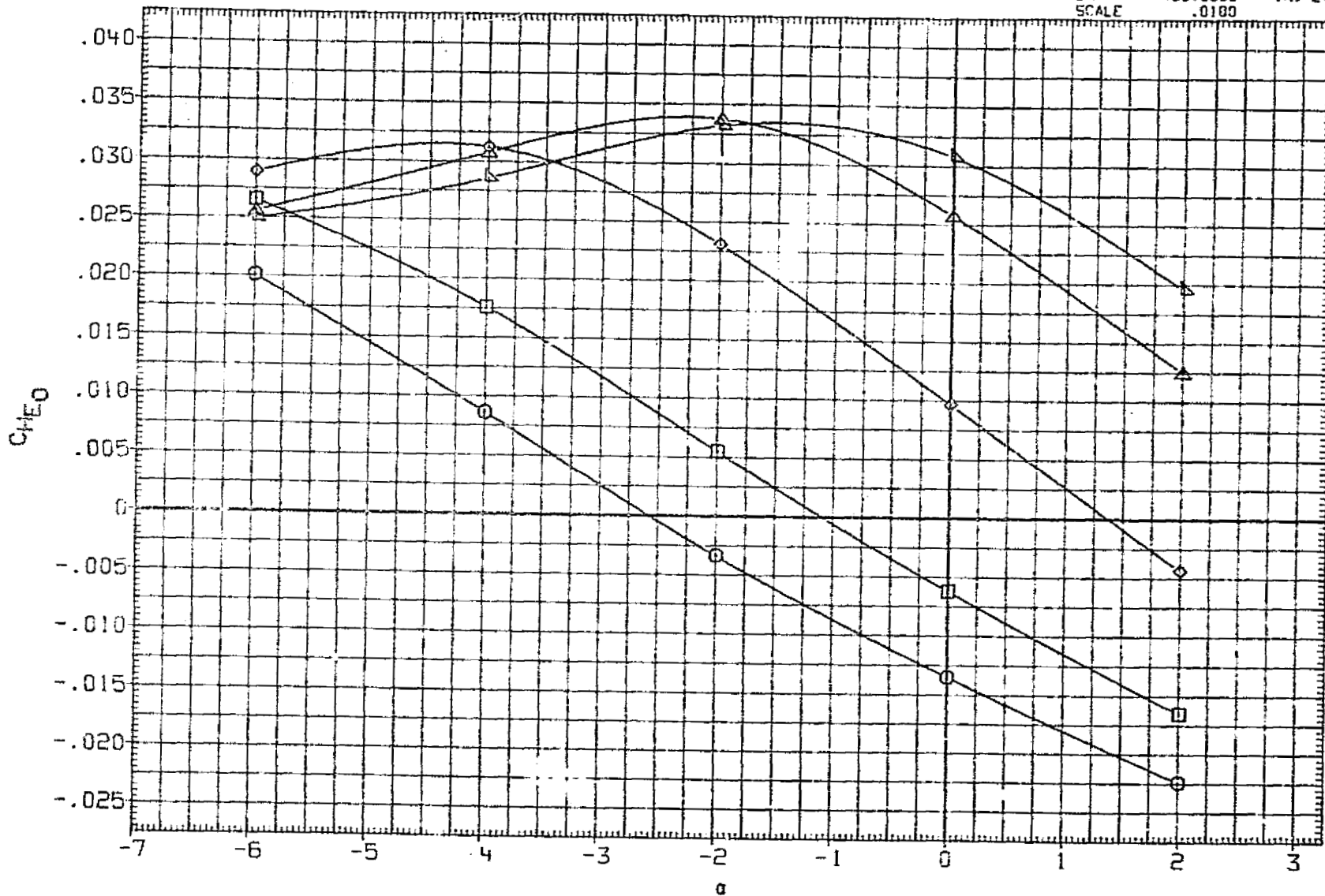


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(C)MACH = 1.15

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ807	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000	50. FT.
MJJ808	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1290.3000	INCHES
MJJ809	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1290.3000	INCHES
MJJ810	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000	IN. XT
MJJ811	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

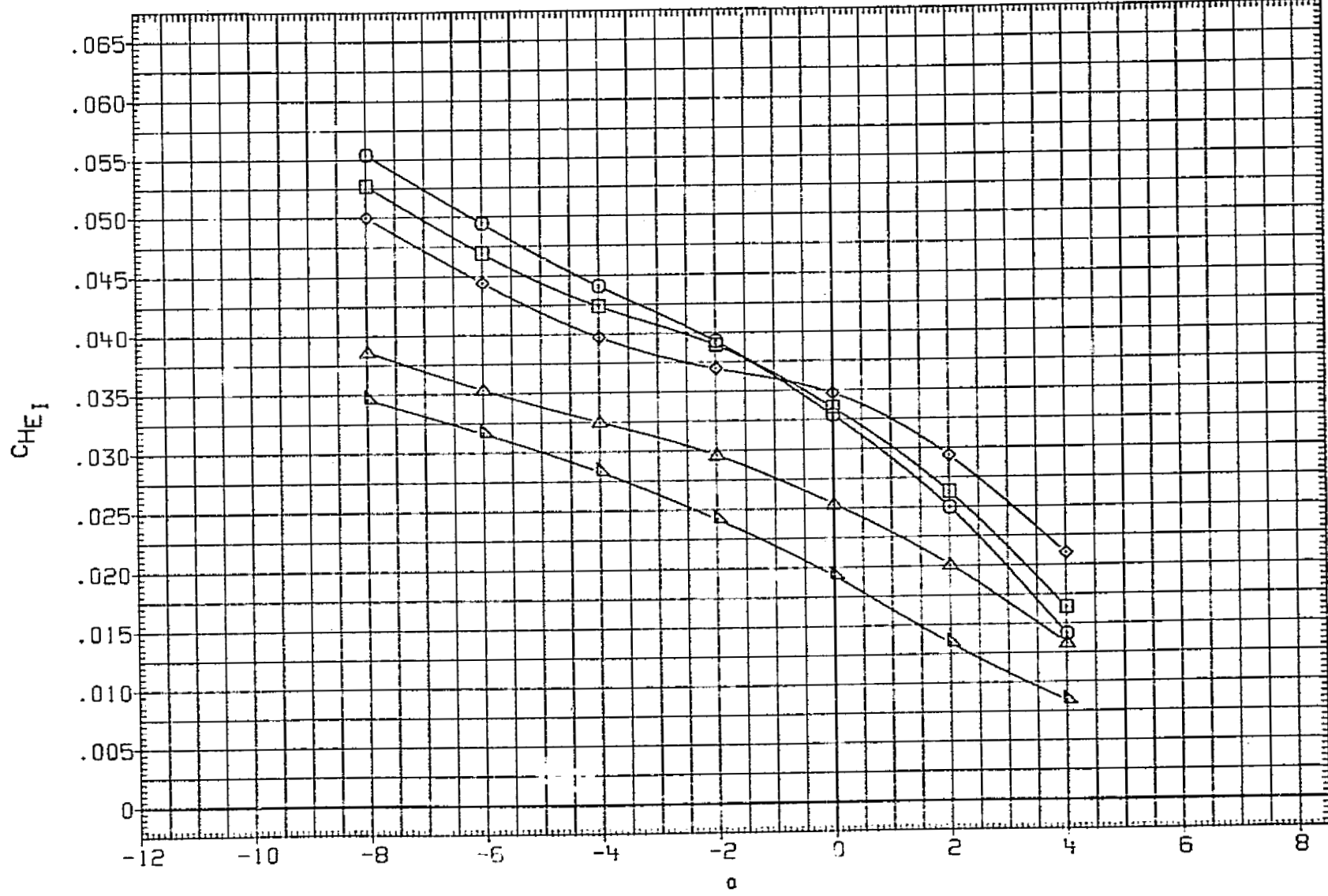


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB07	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	4.000	10.000	4.000	SREF	2690.0000 50.FT.
MJJB08	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	4.000	10.000	4.000	LREF	1280.3000 INCHES
MJJB09	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	4.000	10.000	4.000	BREF	1280.3000 INCHES
MJJB10	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	4.000	10.000	4.000	XMRP	976.0000 IN. XT
MJJB11	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	4.000	10.000	4.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

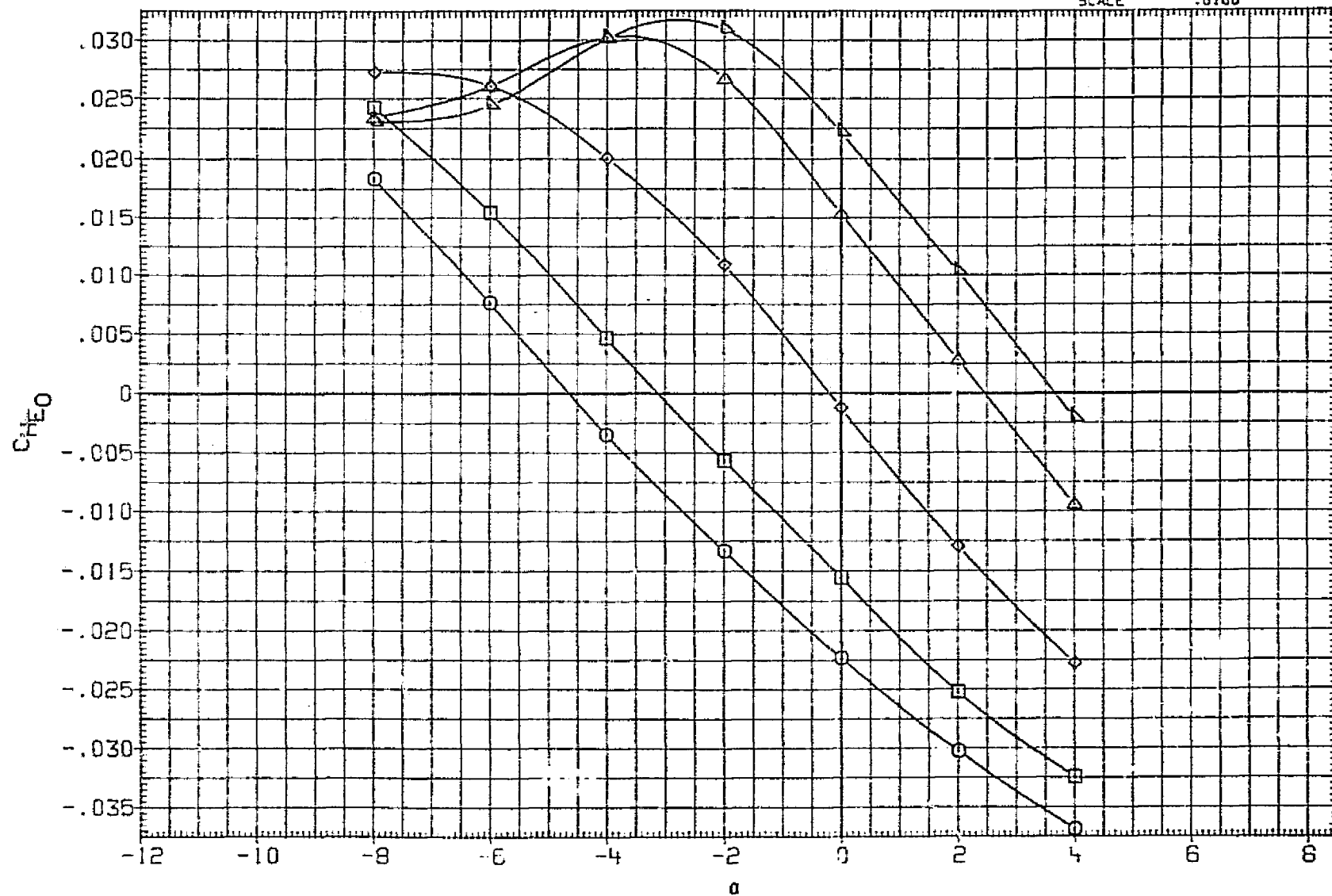


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(D)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000 SQ. FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000 INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000 INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000 IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

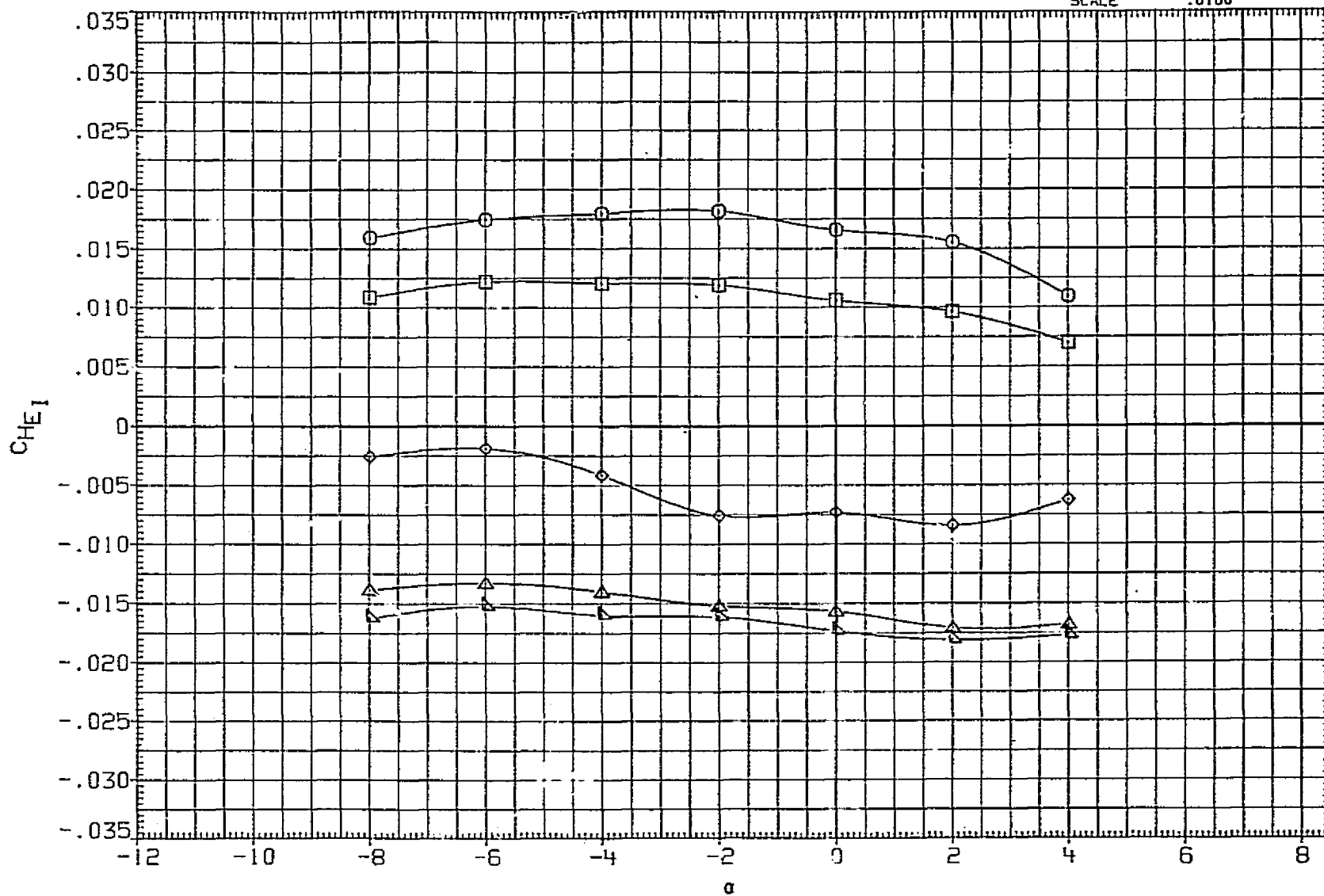


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION	
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000 SQ.FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000 INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000 INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000 IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

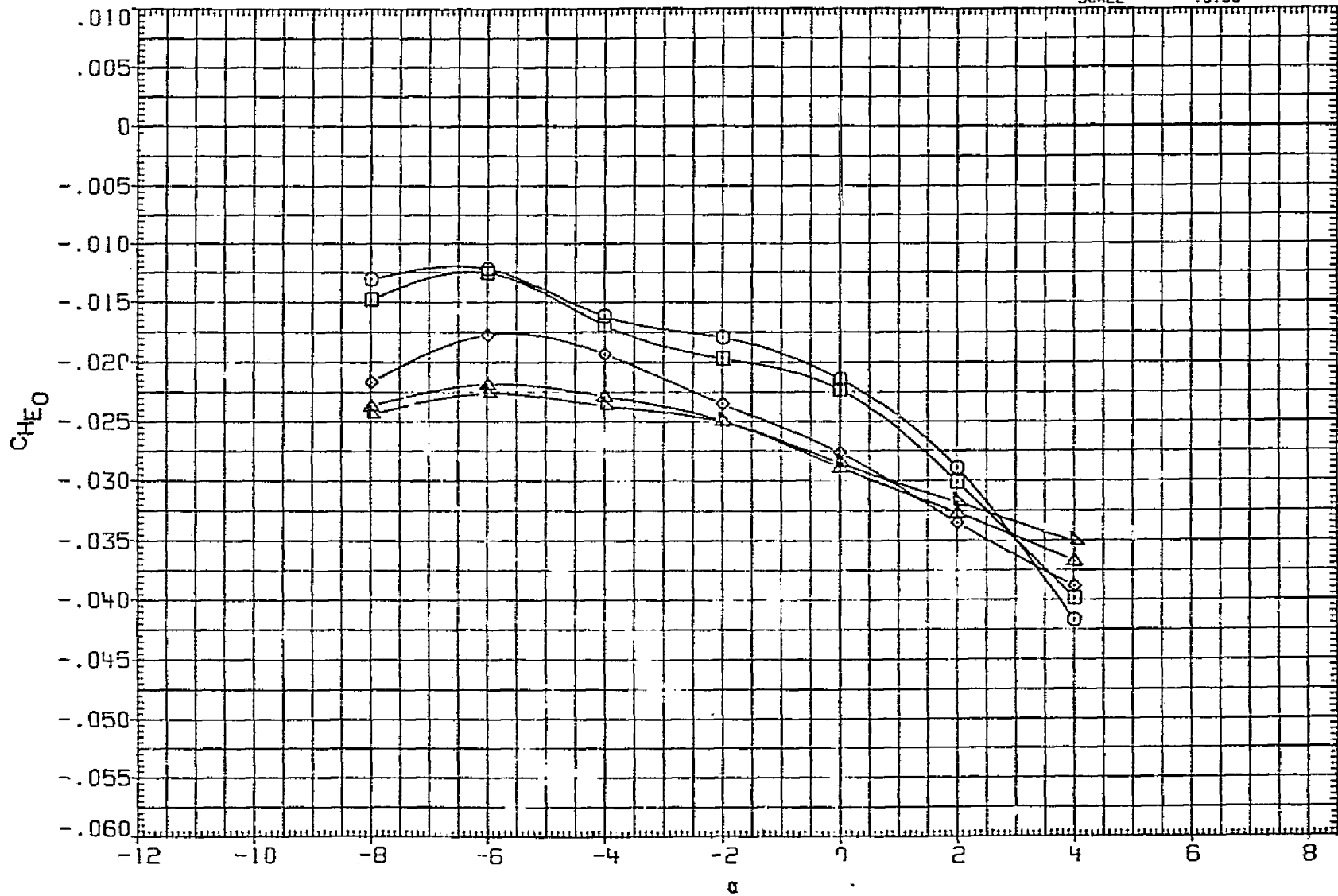


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	SQ.FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

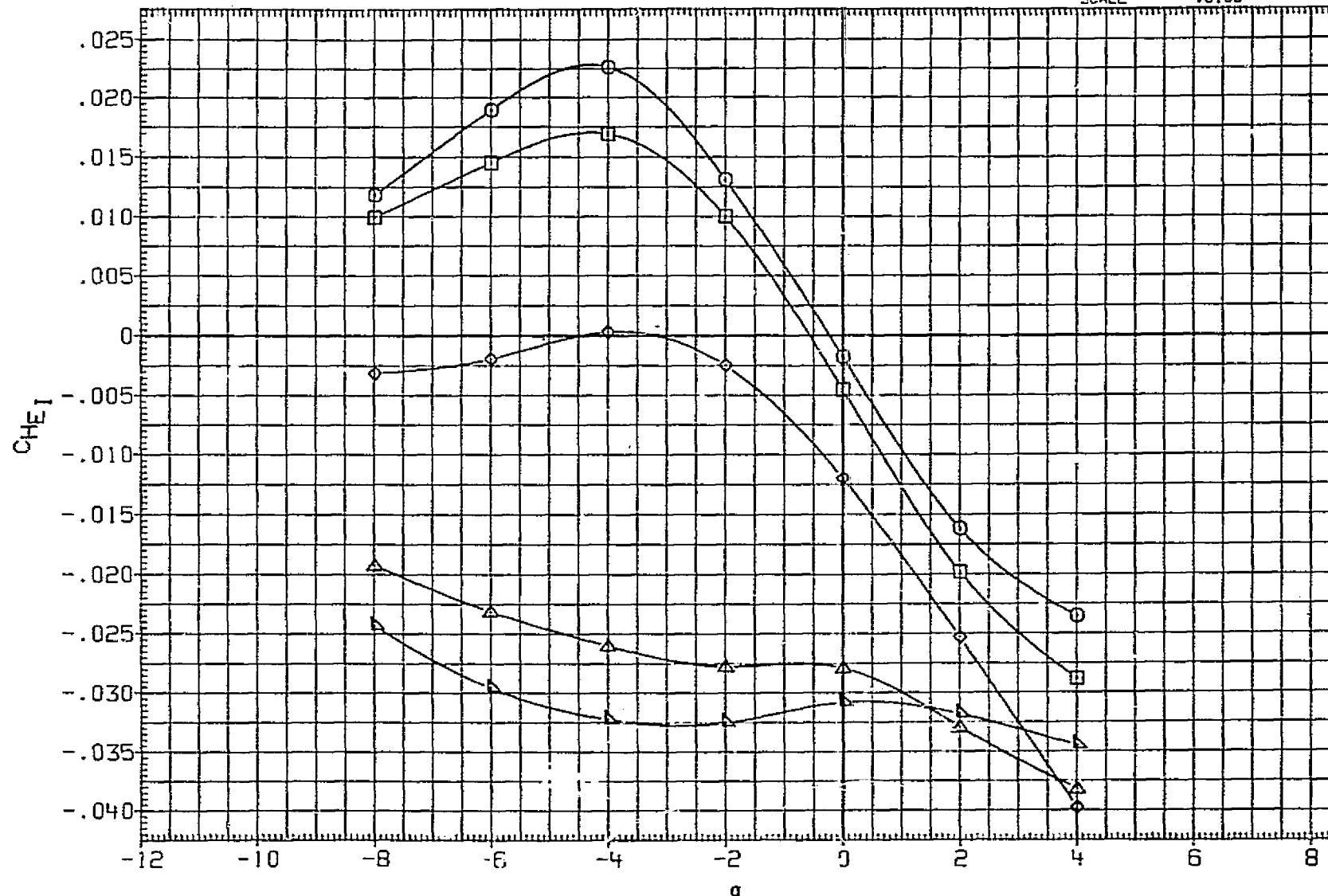


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB12	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	14.000	10.000	14.000	SREF	2690.0000	50. FT.
MJJB13	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	14.000	10.000	14.000	LREF	1290.3000	INCHES
MJJB14	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	14.000	10.000	14.000	BREF	1290.3000	INCHES
MJJB15	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	14.000	10.000	14.000	XMRP	976.0000	IN. XT	
MJJB16	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	14.000	10.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

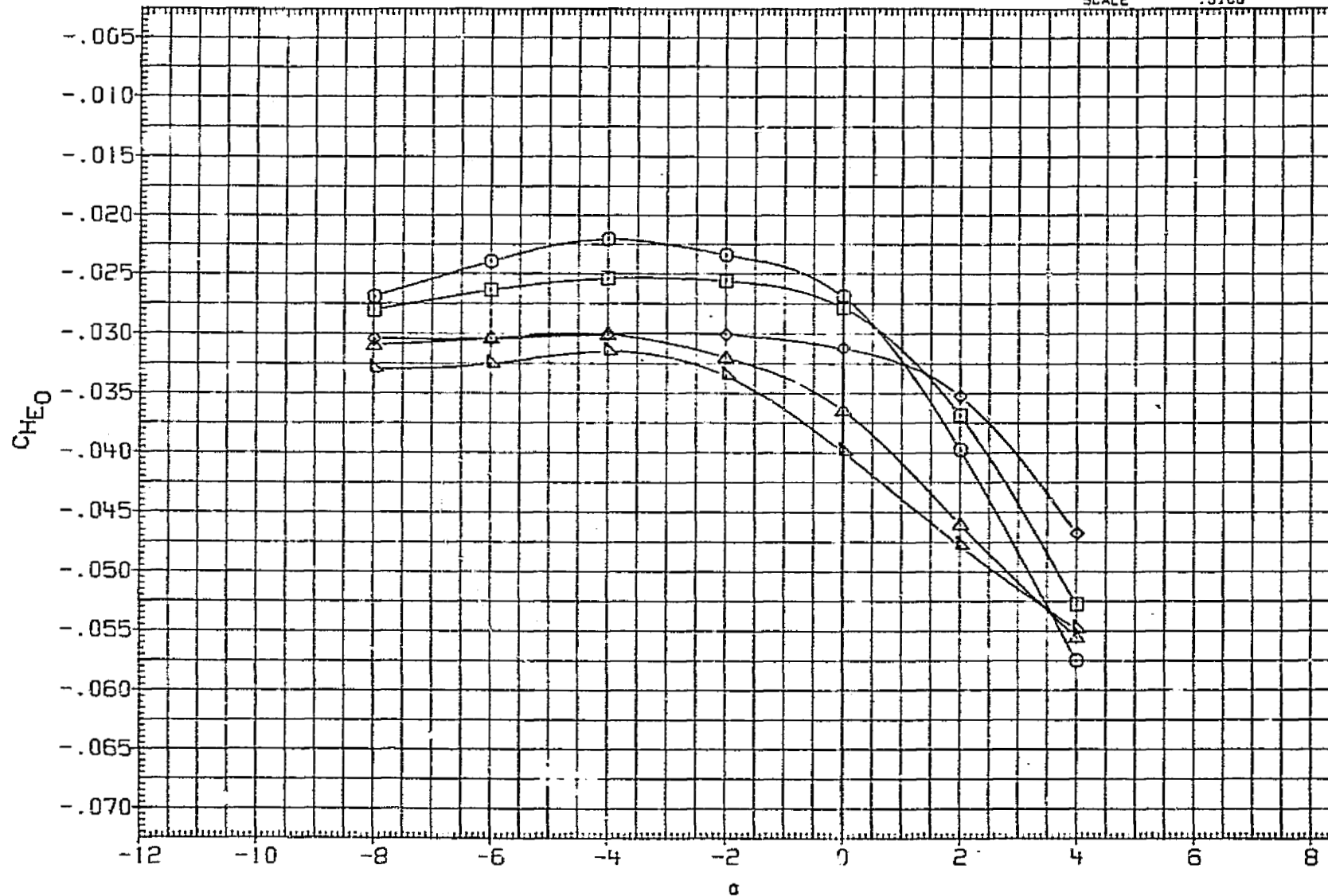


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB17	○ LARC BFT TPT 749 (IA93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF 2690.0000 SQ.FT.
MJJB18	□ LARC BFT TPT 749 (IA93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF 1290.3000 INCHES
MJJB19	◇ LARC BFT TPT 749 (IA93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF 1290.3000 INCHES
MJJB20	△ LARC BFT TPT 749 (IA93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP 976.0000 IN. XT
MJJB21	▽ LARC BFT TPT 749 (IA93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

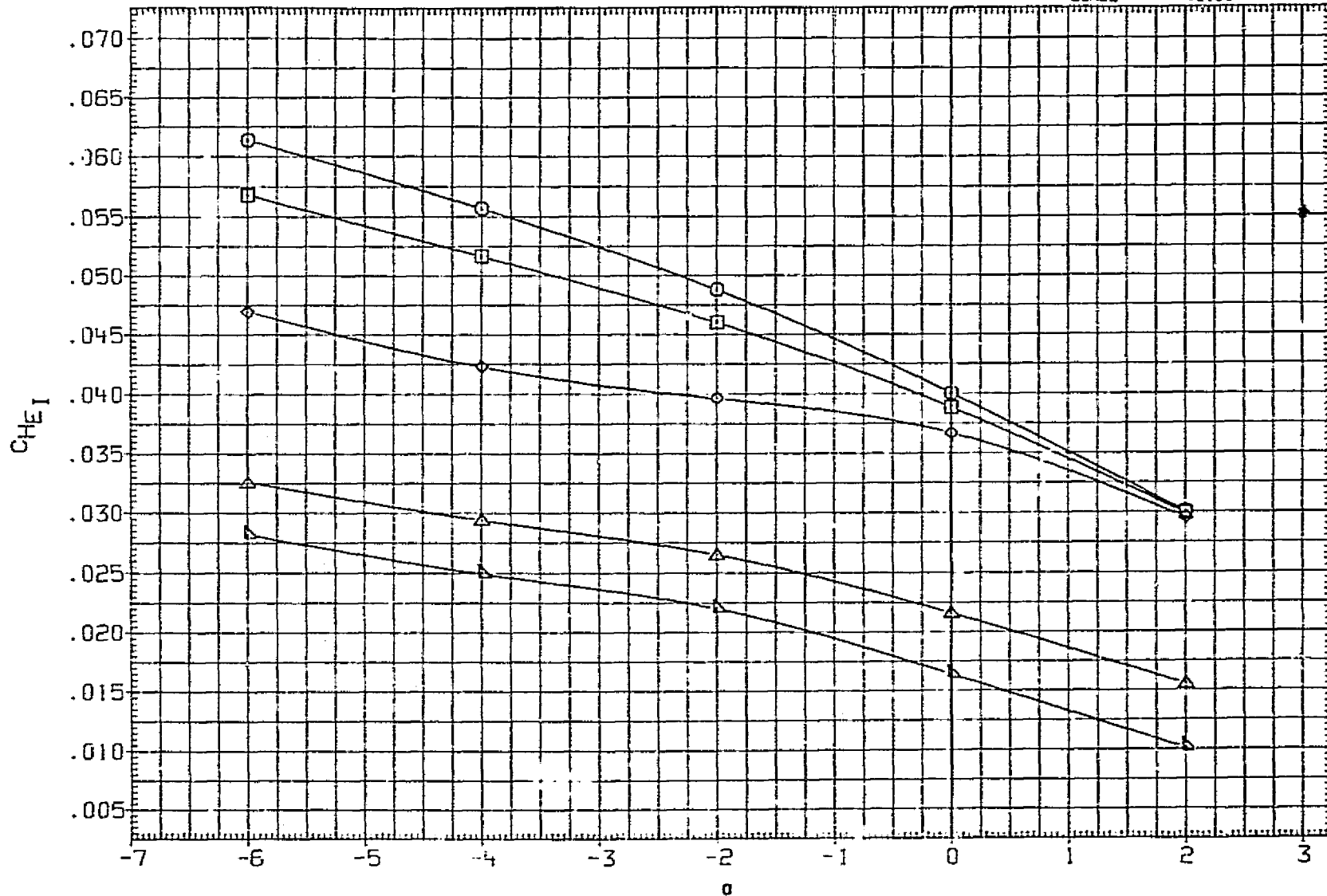


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB17	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2890.0000	60. FT.
MJJB18	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	SREF	1290.3000	INCHES
MJJB20	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

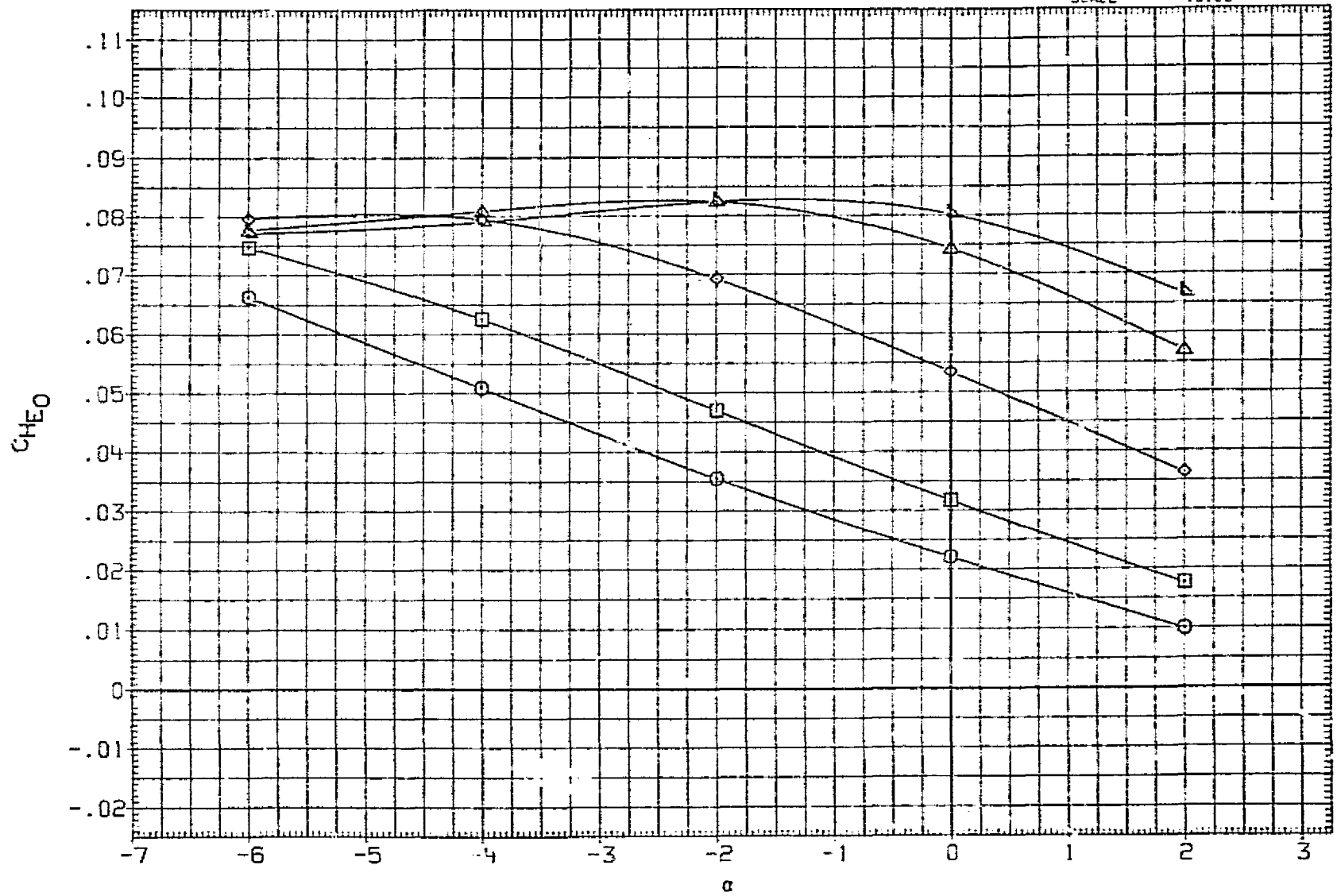


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A)MACH = 1.15

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-LO	ELV-R1	ELV-RO	REFERENCE INFORMATION		
MJJB17	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50. FT.
MJJB18	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

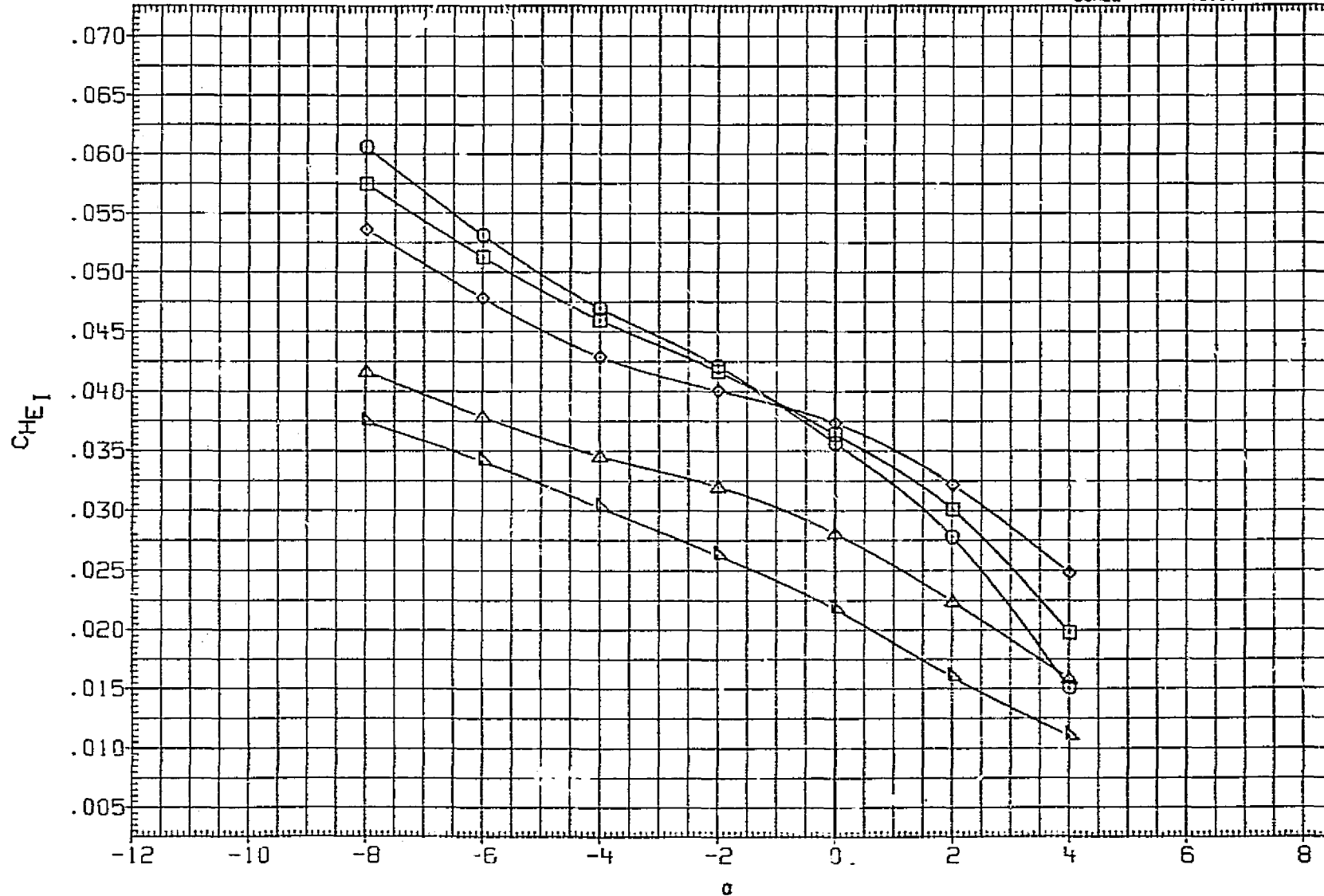


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB17	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	10.000	-5.000	10.000	-5.000	SREF	2690.0000	50.FT.
MJJB18	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	10.000	-5.000	10.000	-5.000	LREF	1290.3000	INCHES
MJJB19	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	10.000	-5.000	10.000	-5.000	BREF	1290.3000	INCHES
MJJB20	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	10.000	-5.000	10.000	-5.000	XMRP	976.0000	IN. XT
MJJB21	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	10.000	-5.000	10.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

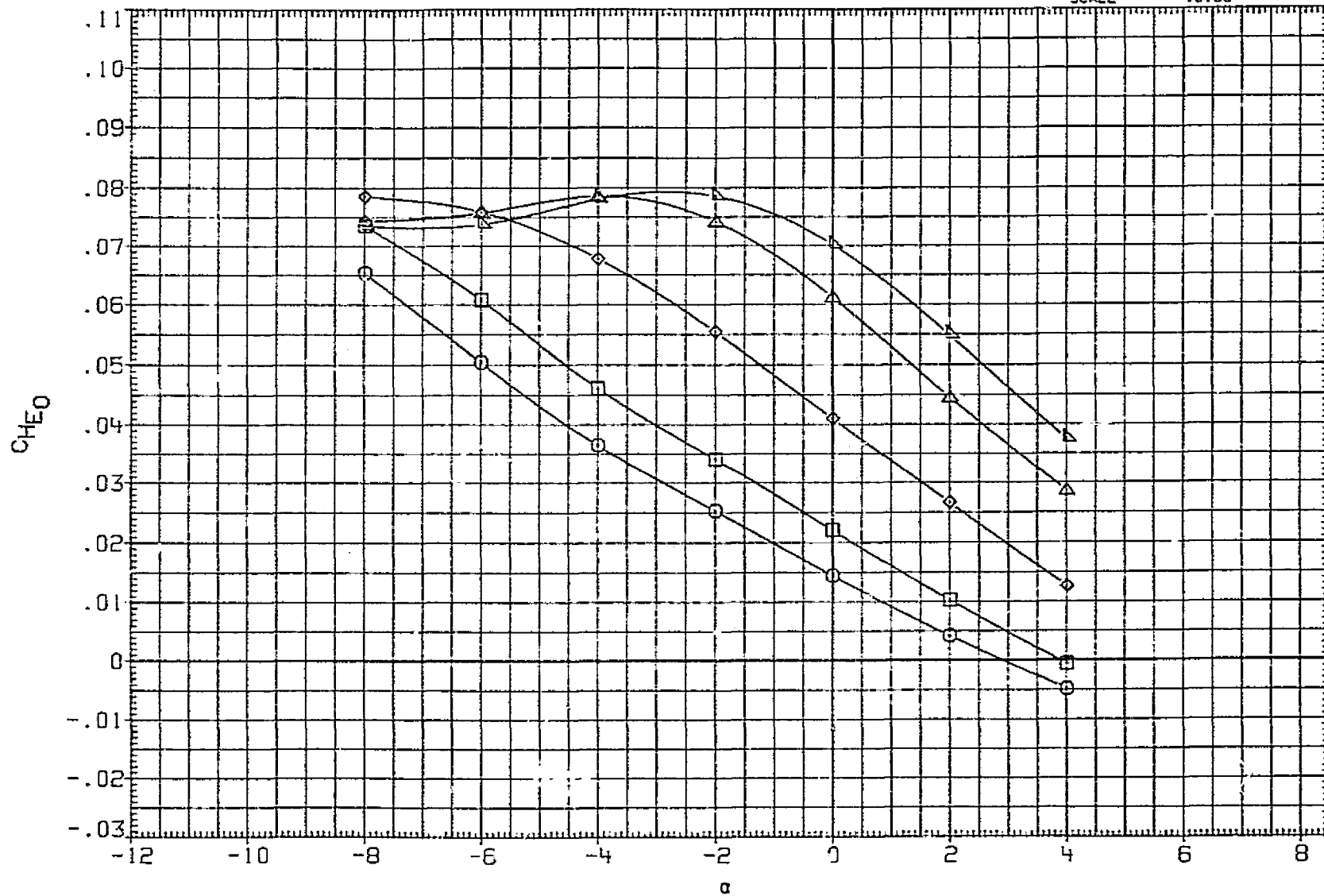


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB22	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50.FT.
MJJB23	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJB26	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

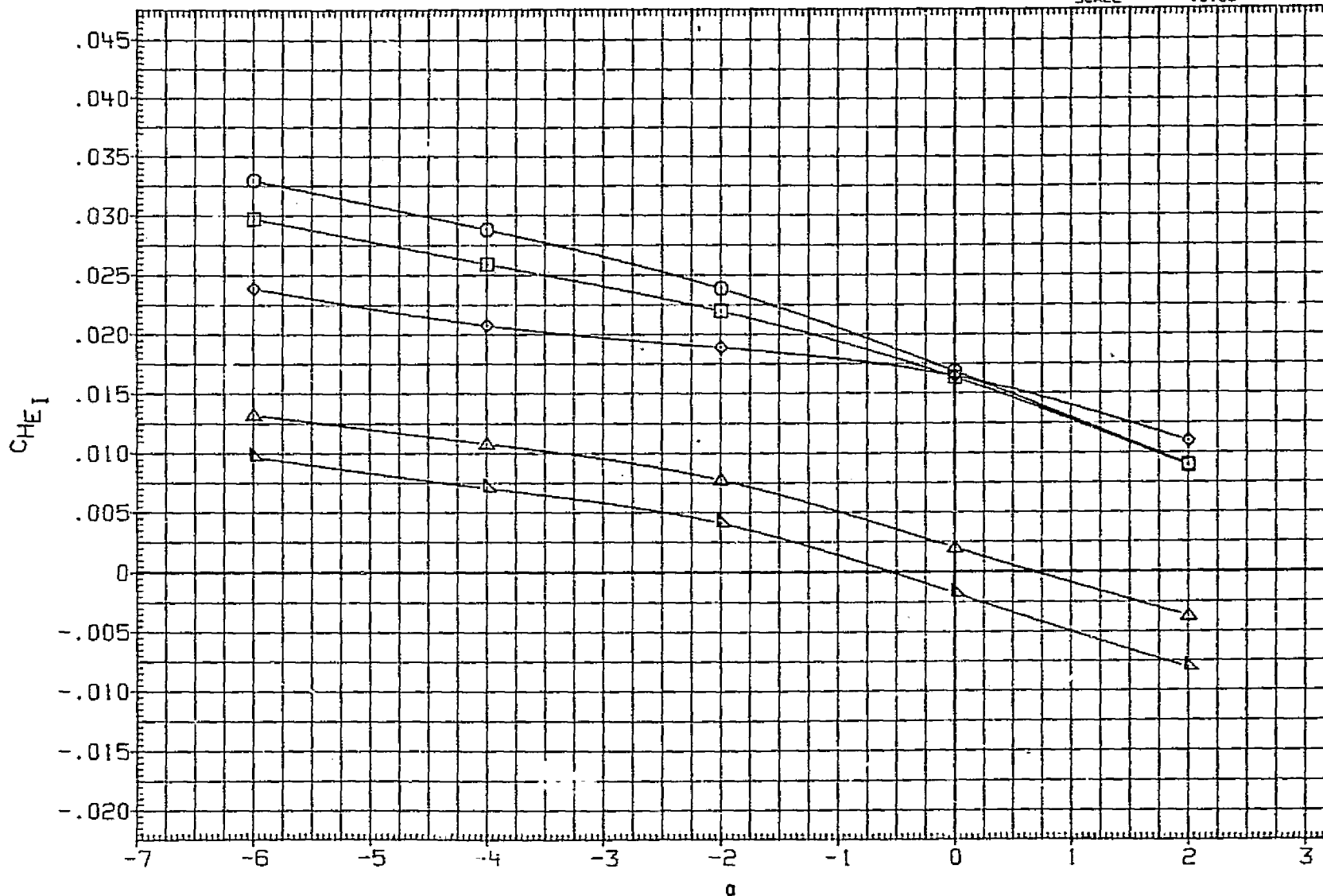


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB22	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB23	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	.NCHES
MJJB24	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJB26	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

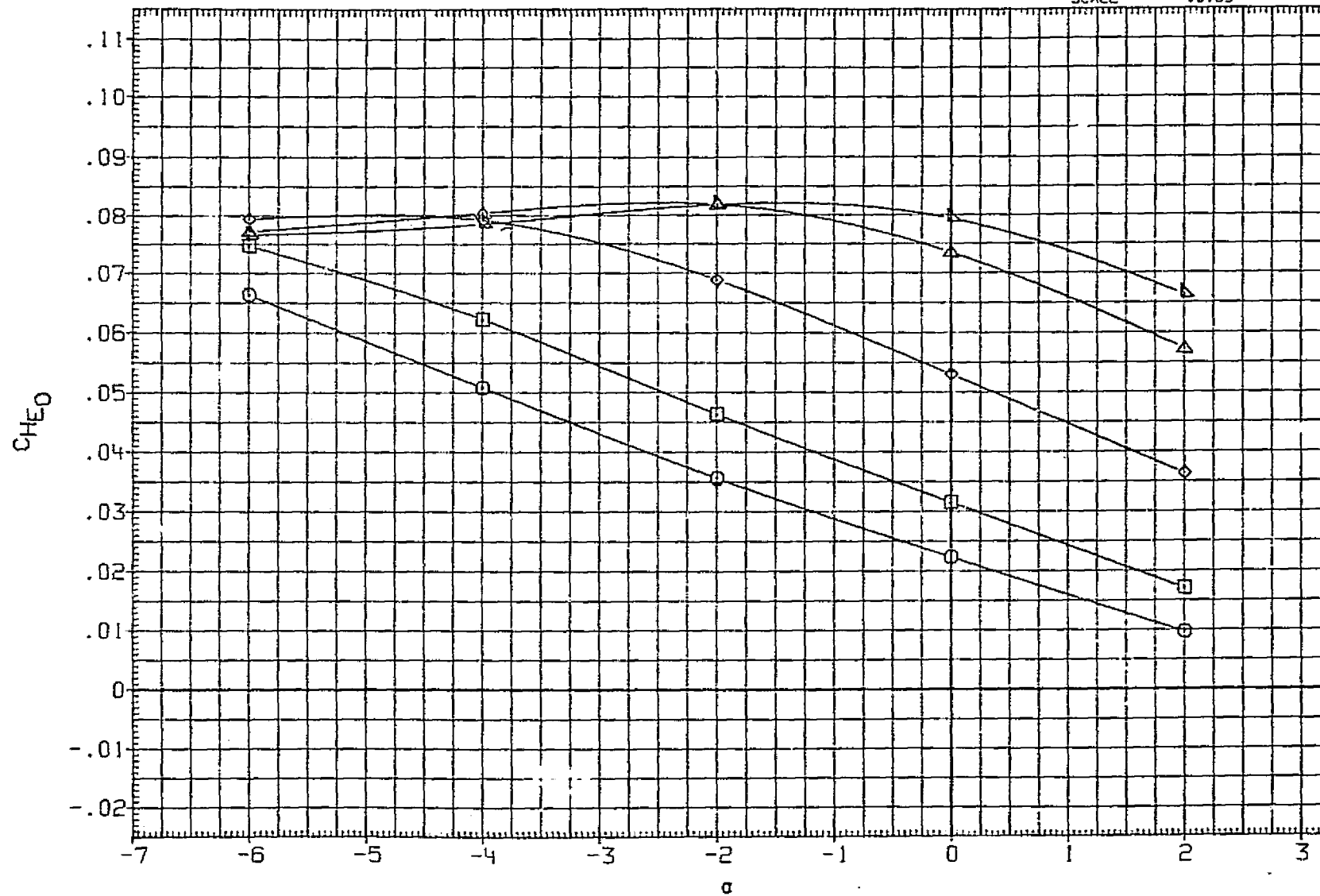


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB22	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	50. FT.
MJJB23	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	975.0000	IN. XT
MJJB26	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0108	

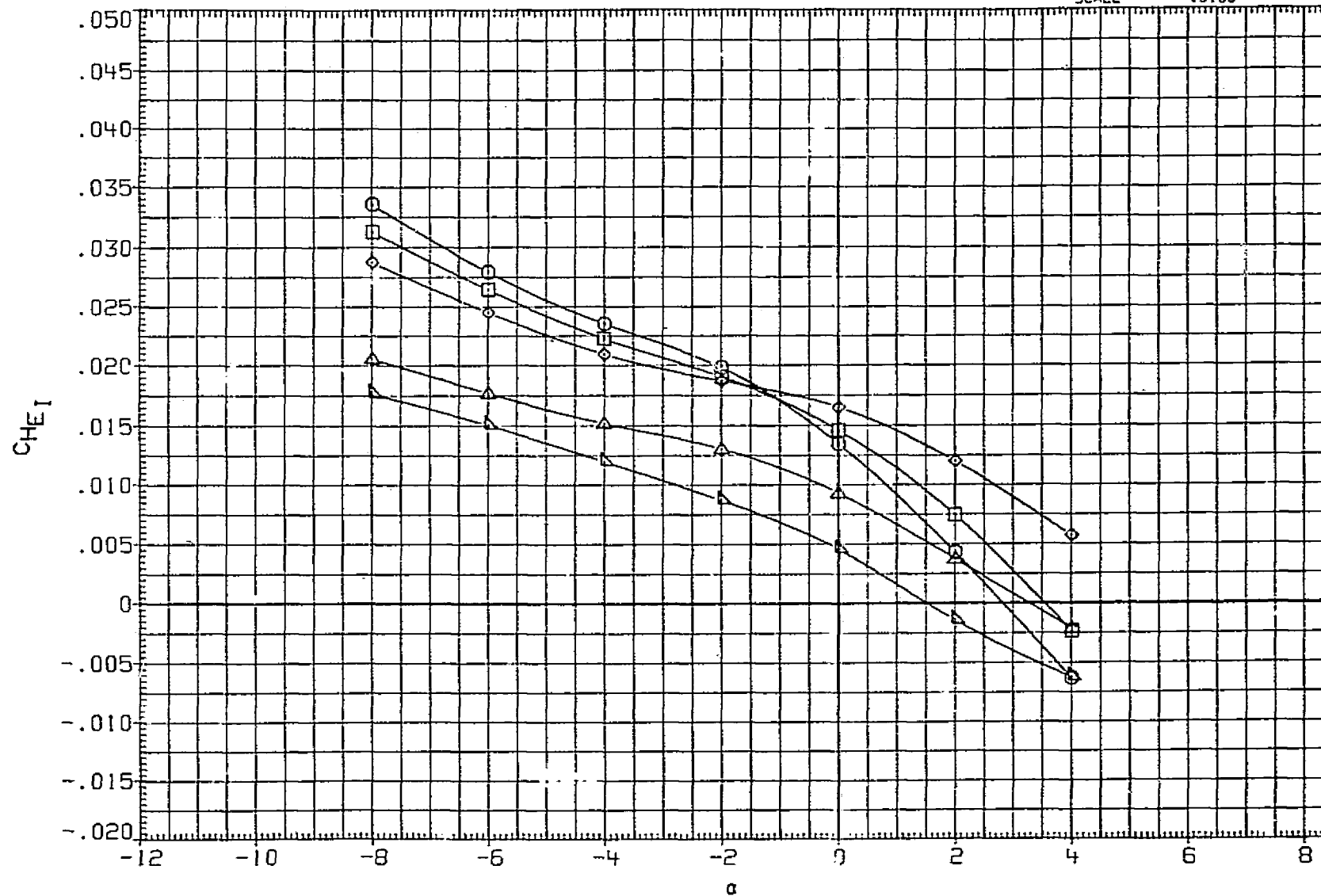


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB22	○ LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	12.000	-5.000	12.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB23	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	-5.000	12.000	-5.000	LREF	1290.3000	INCHES
MJJB24	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	-5.000	12.000	-5.000	BREF	1290.3000	INCHES
MJJB25	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	-5.000	12.000	-5.000	XMRP	976.0000	IN. XT
MJJB26	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	-5.000	12.000	-5.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

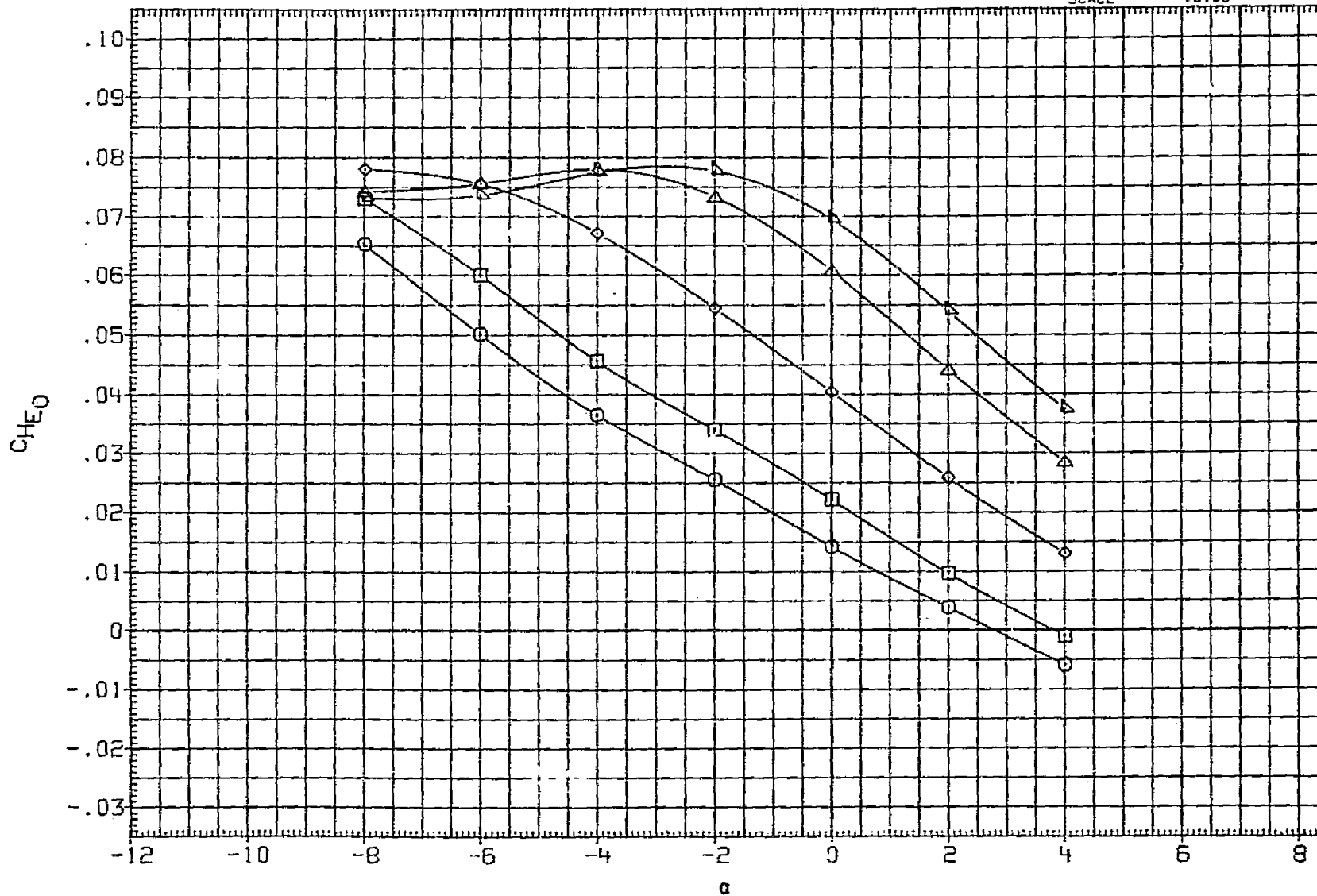


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJB28	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

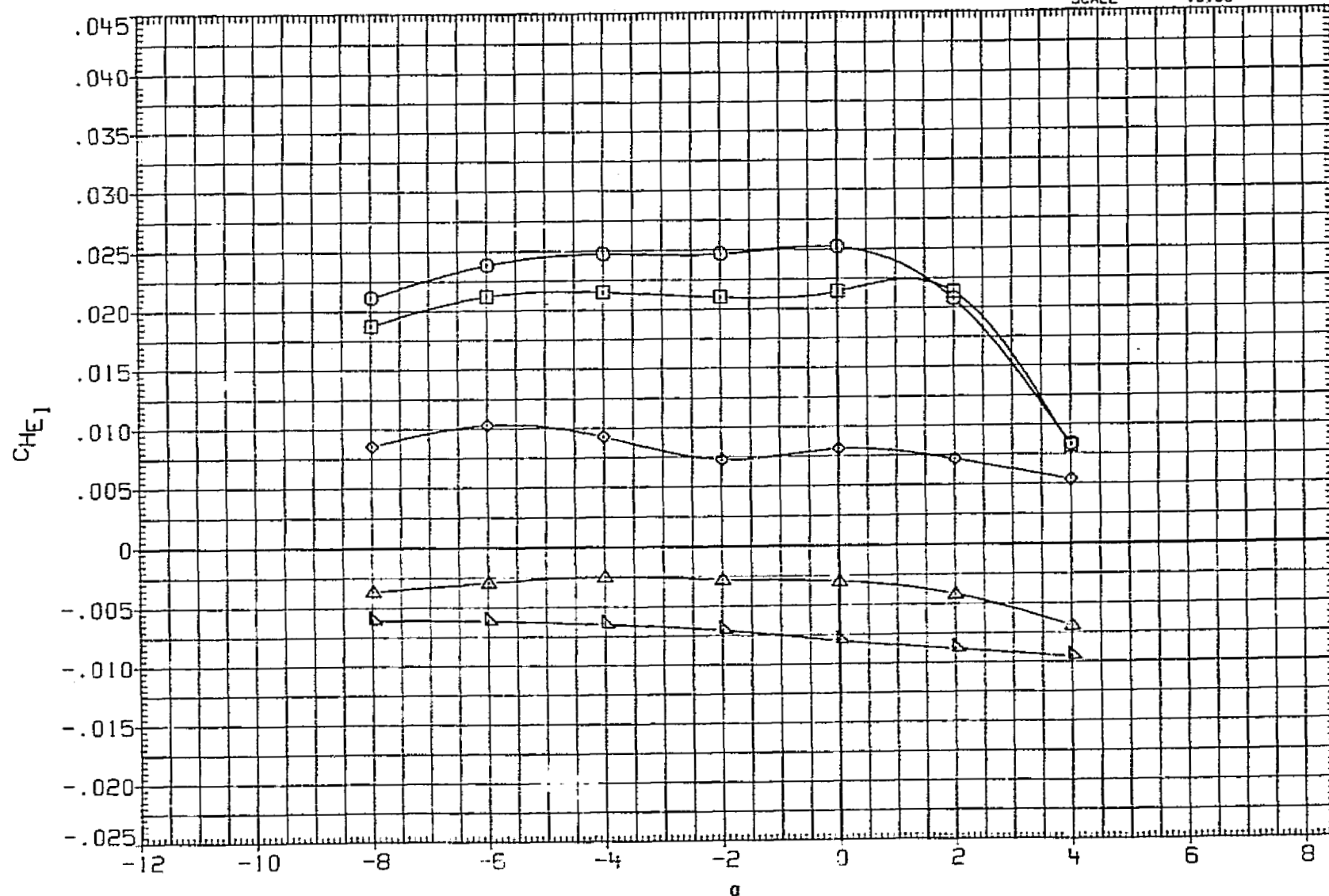


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

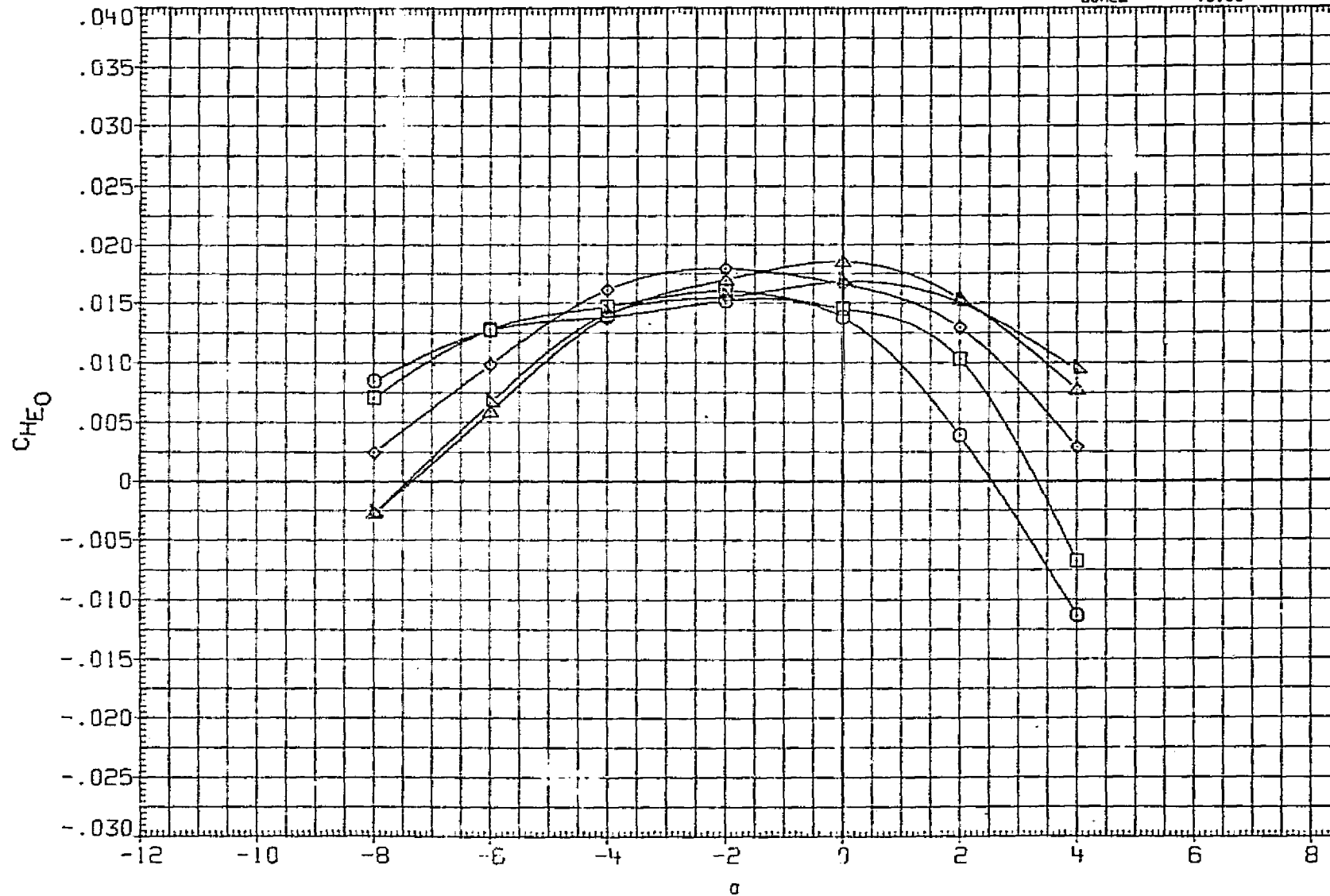


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0600	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

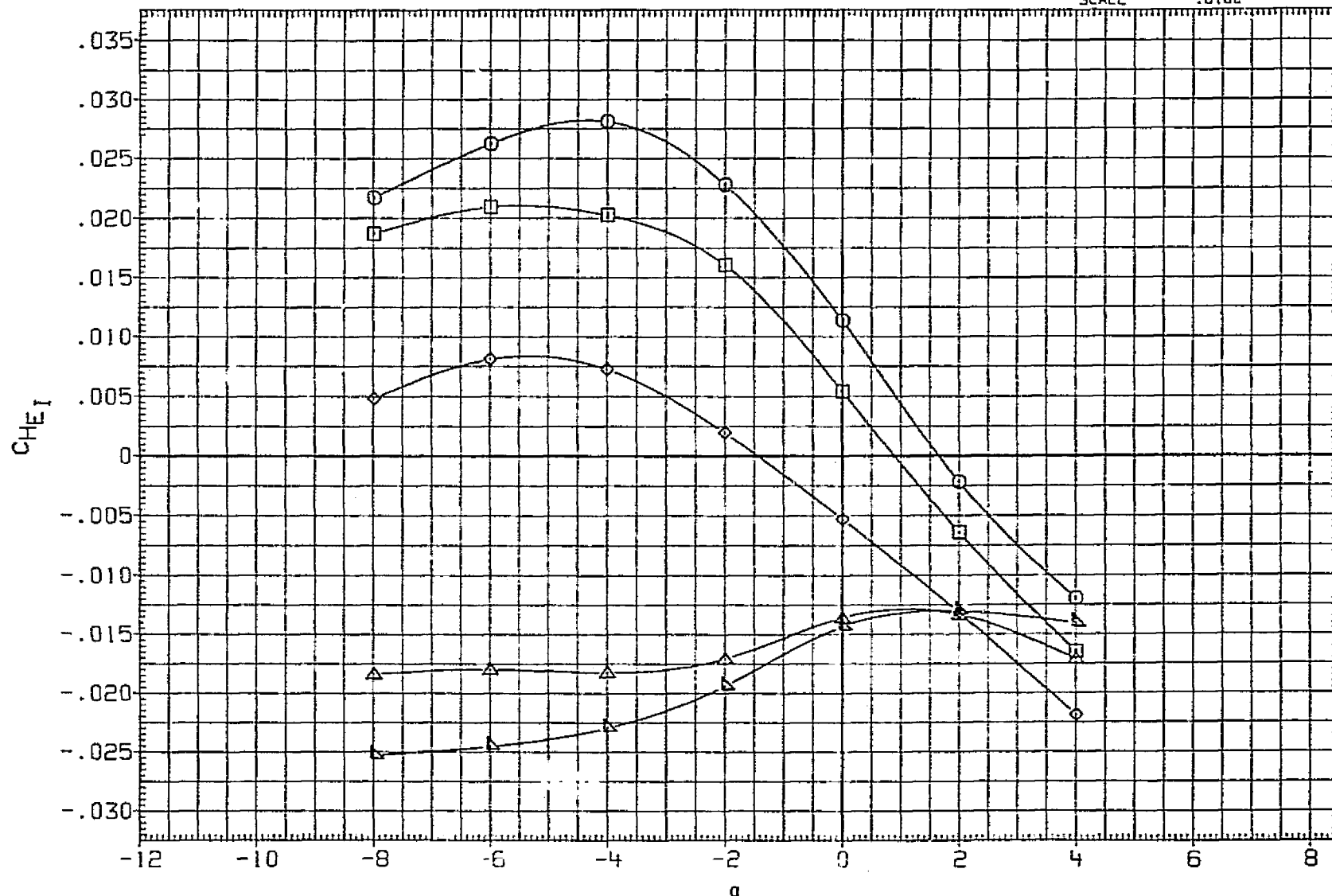


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

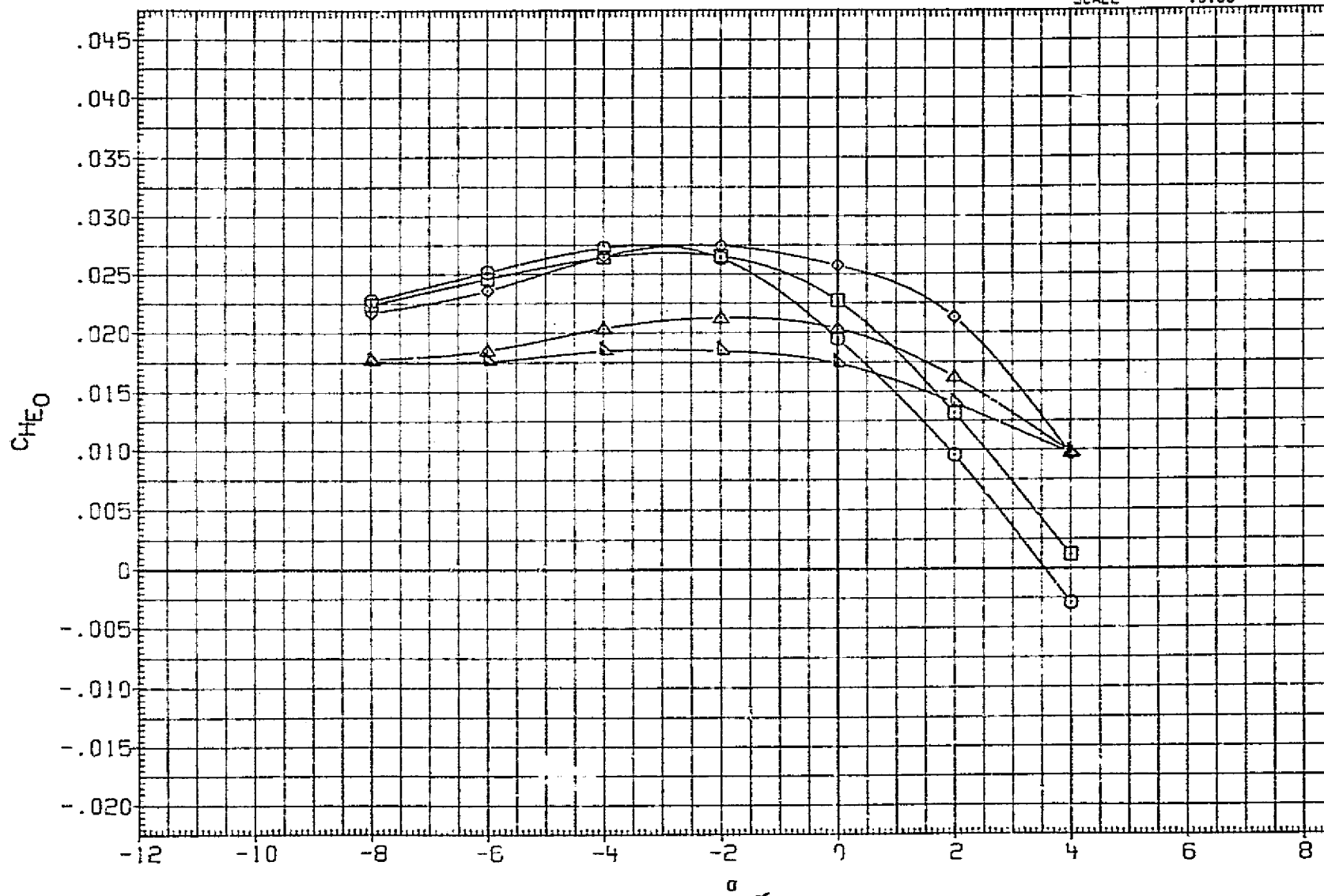


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	SQ. FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

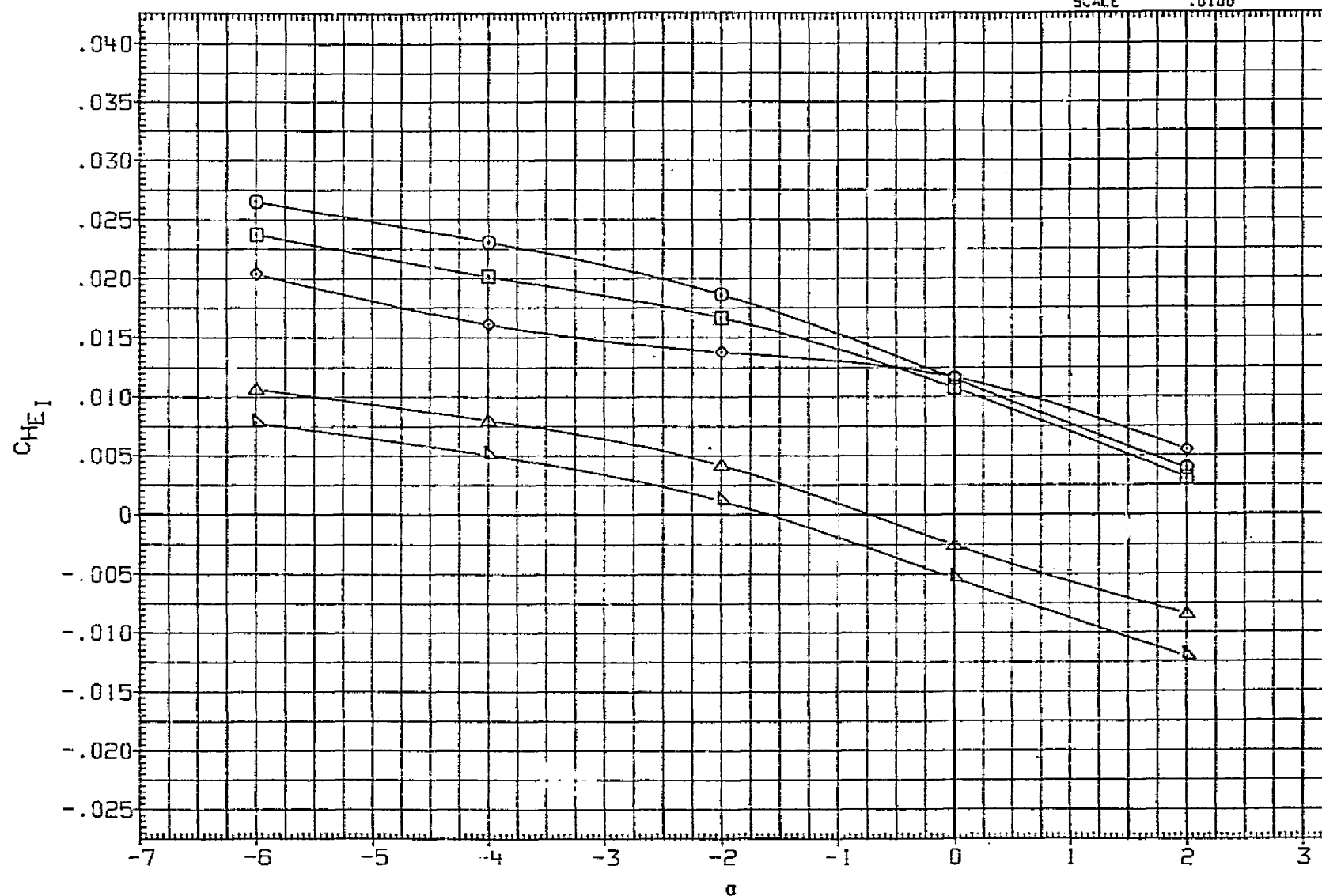


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LD	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ827	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	12.000	4.000	12.000	4.000	SREF	2890.0000	50. FT.
MJJ828	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1280.3000	INCHES
MJJ829	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1280.3000	INCHES
MJJ830	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJ831	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

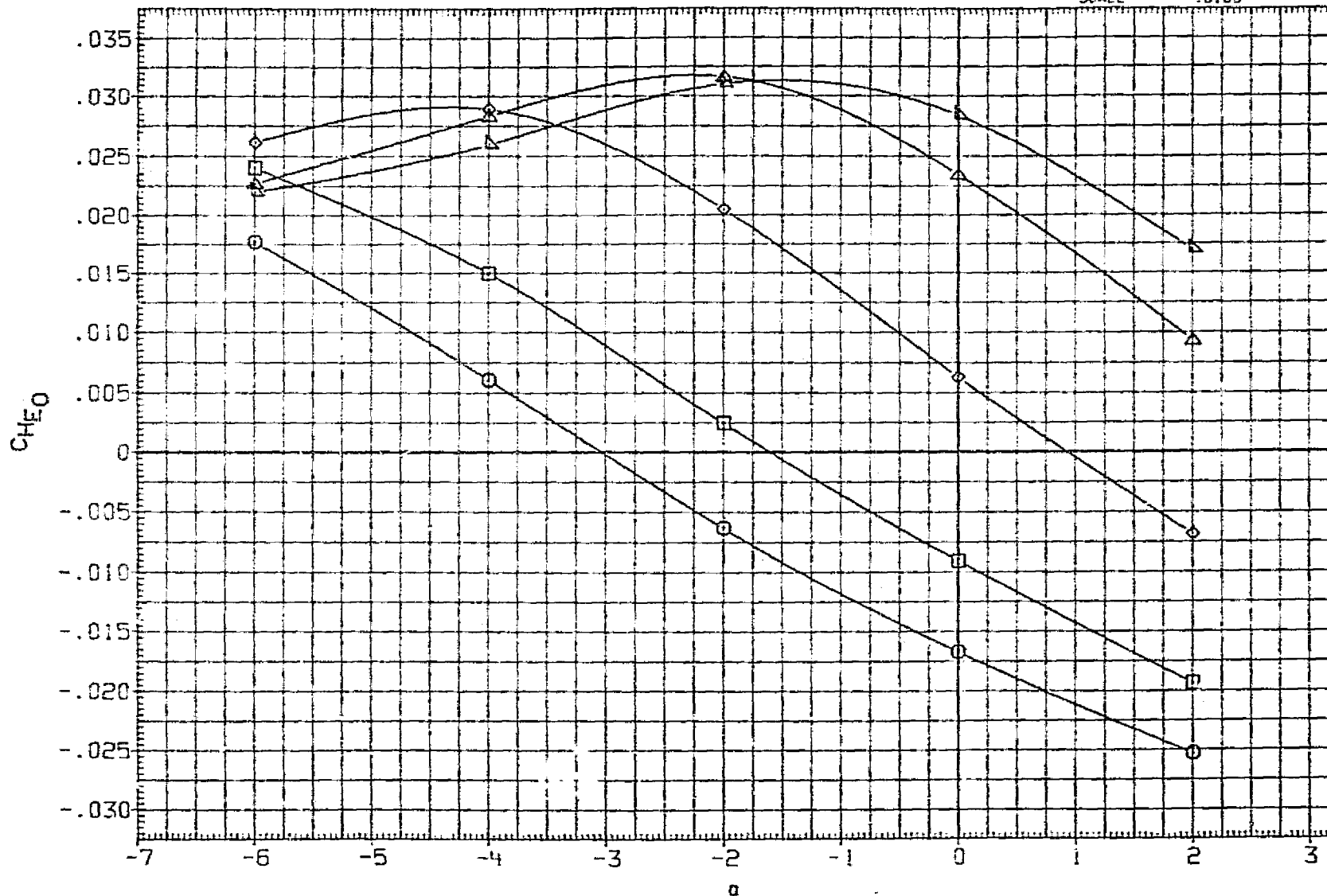


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB27	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50.FT.
MJJB28	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

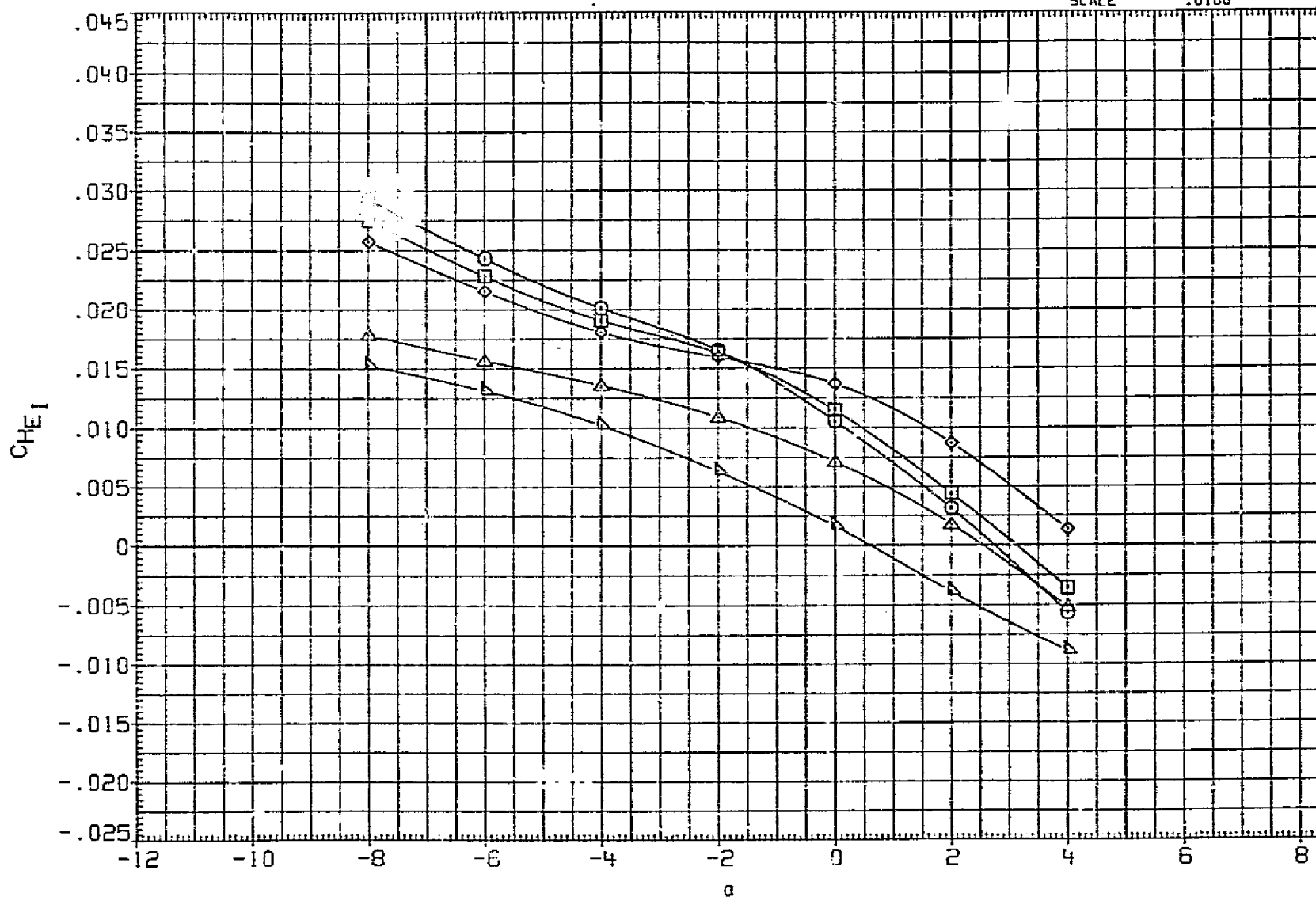


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB27	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	4.000	12.000	4.000	SREF	2690.0000	50. FT.
MJJB28	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	4.000	12.000	4.000	LREF	1290.3000	INCHES
MJJB29	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	4.000	12.000	4.000	BREF	1290.3000	INCHES
MJJB30	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	4.000	12.000	4.000	XMRP	976.0000	IN. XT
MJJB31	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	4.000	12.000	4.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

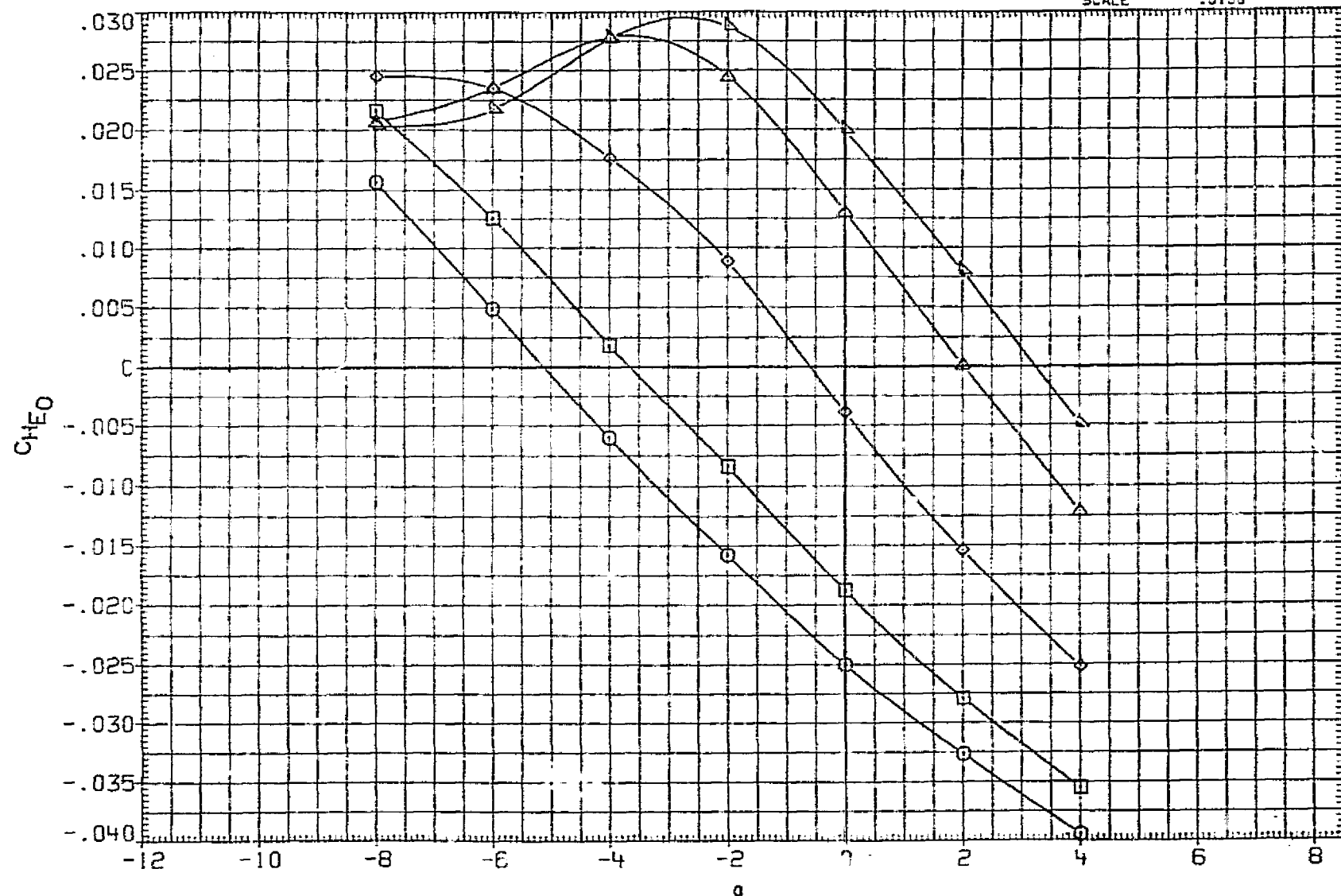


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(D)MACH = 1.20

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DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ. FT.
MJJB33	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	LARC BFT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	LARC BFT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	LARC BFT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

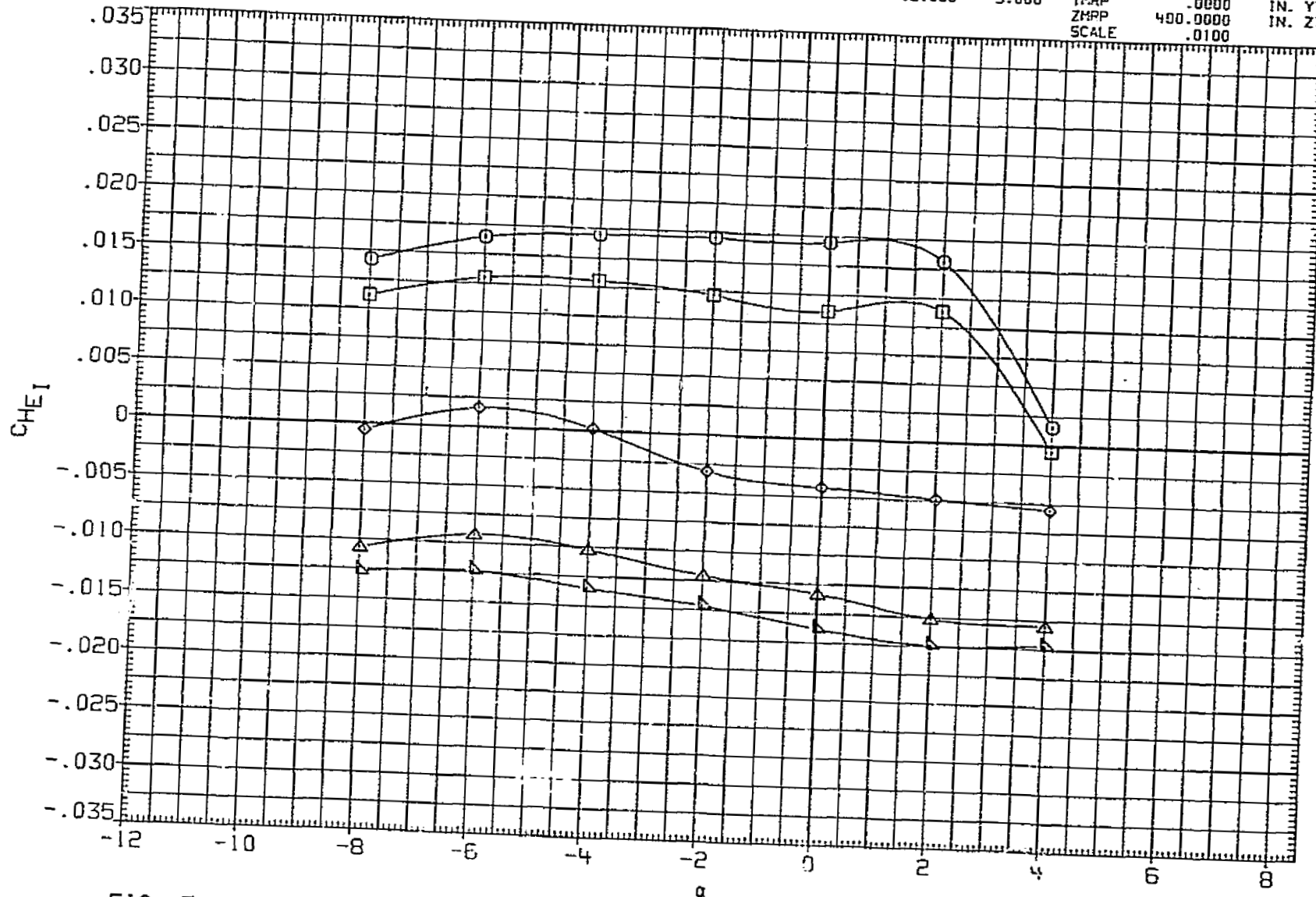


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.900	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT	
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

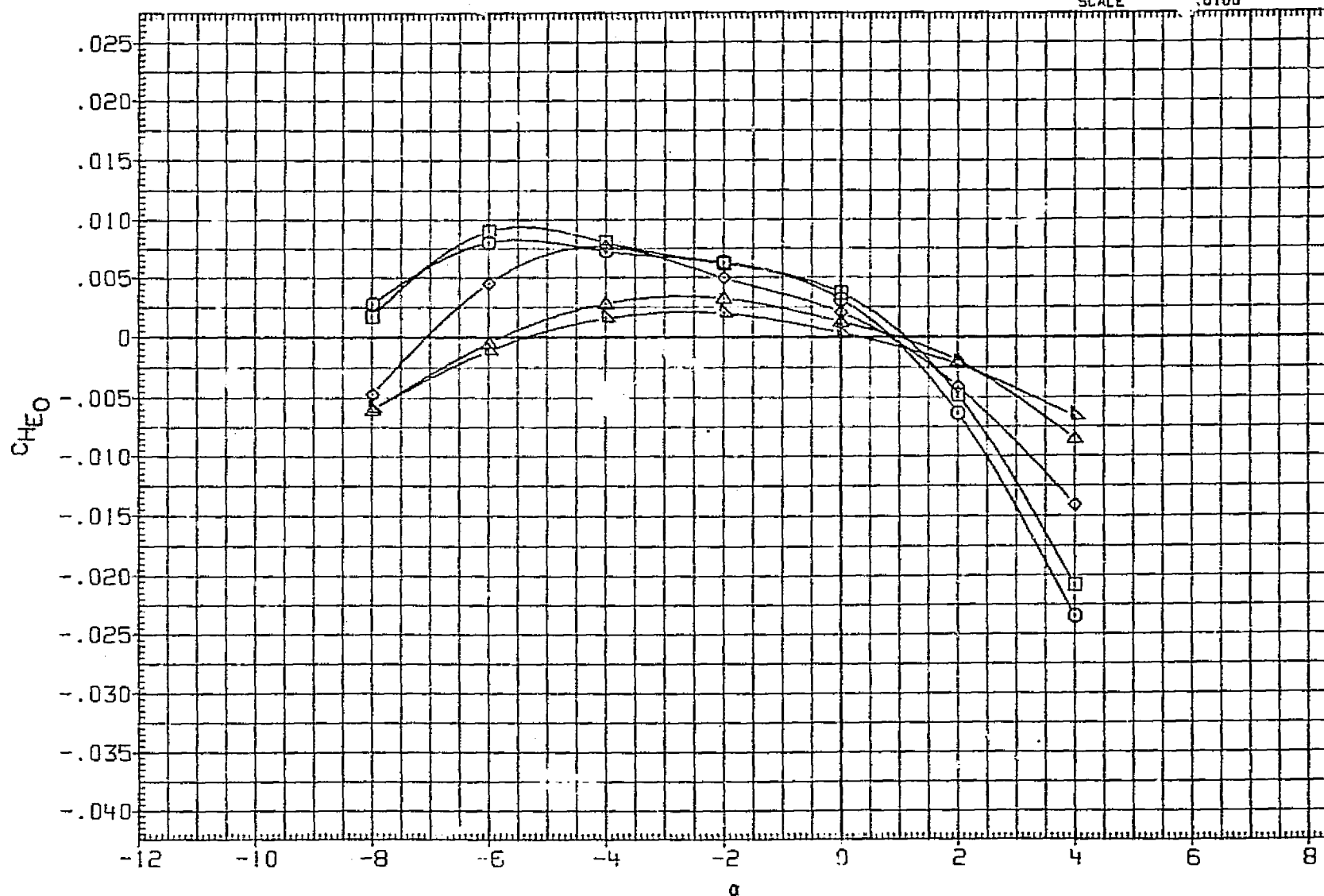


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT	
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YI
								ZMRP	400.0000	IN. ZI
								SCALE	.0100	

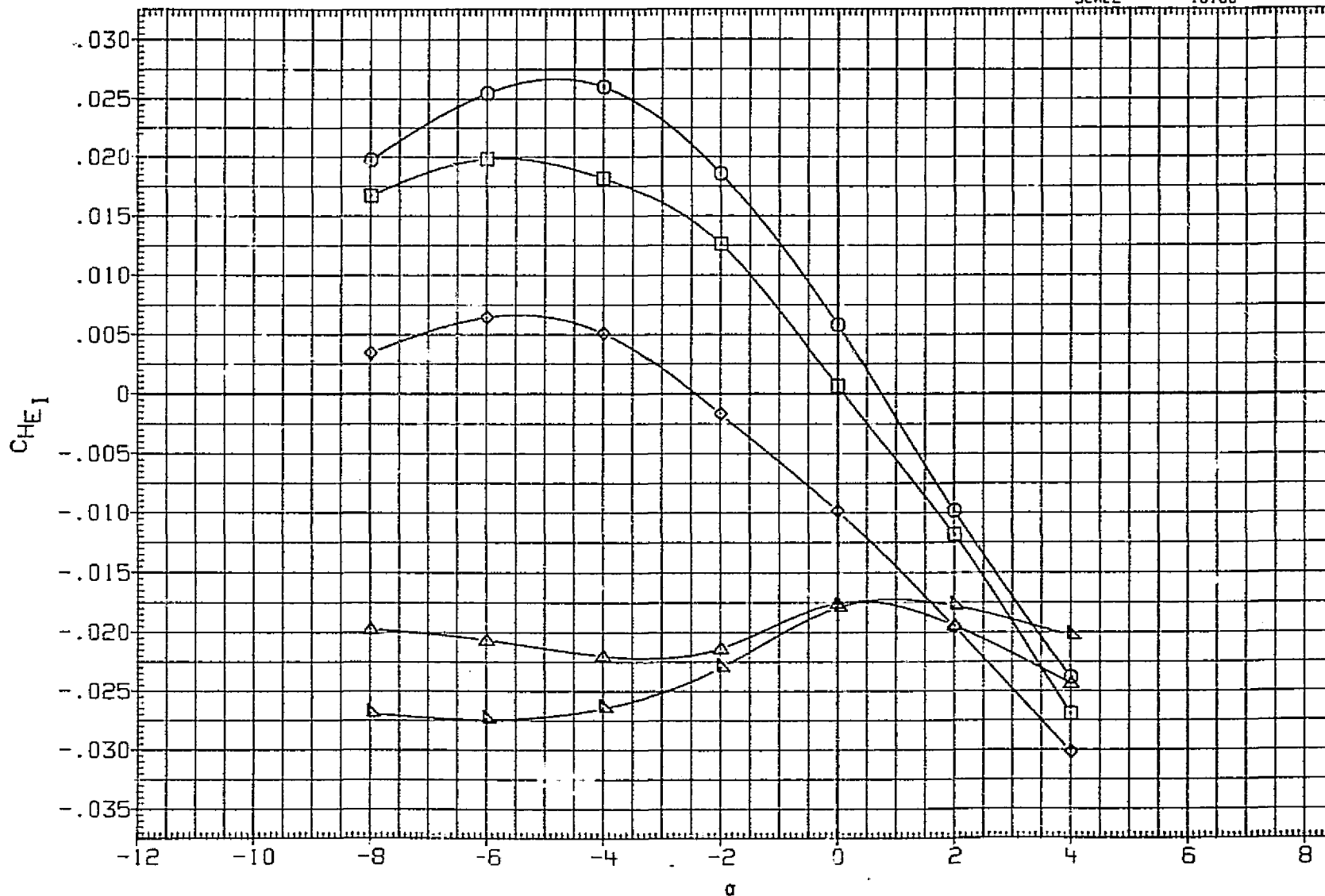


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.8000	IN. ZT
								SCALE	.0100	

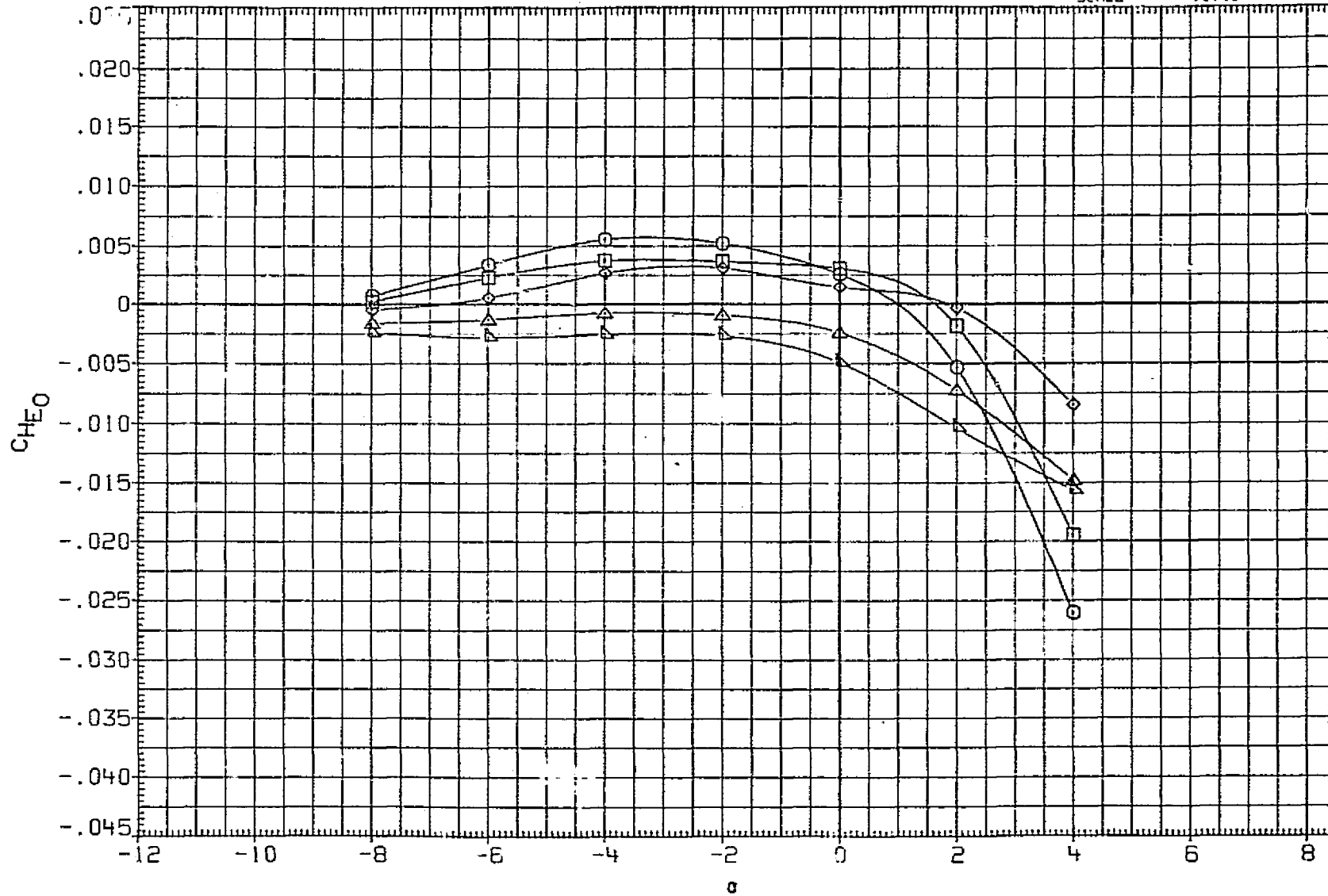


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ.FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

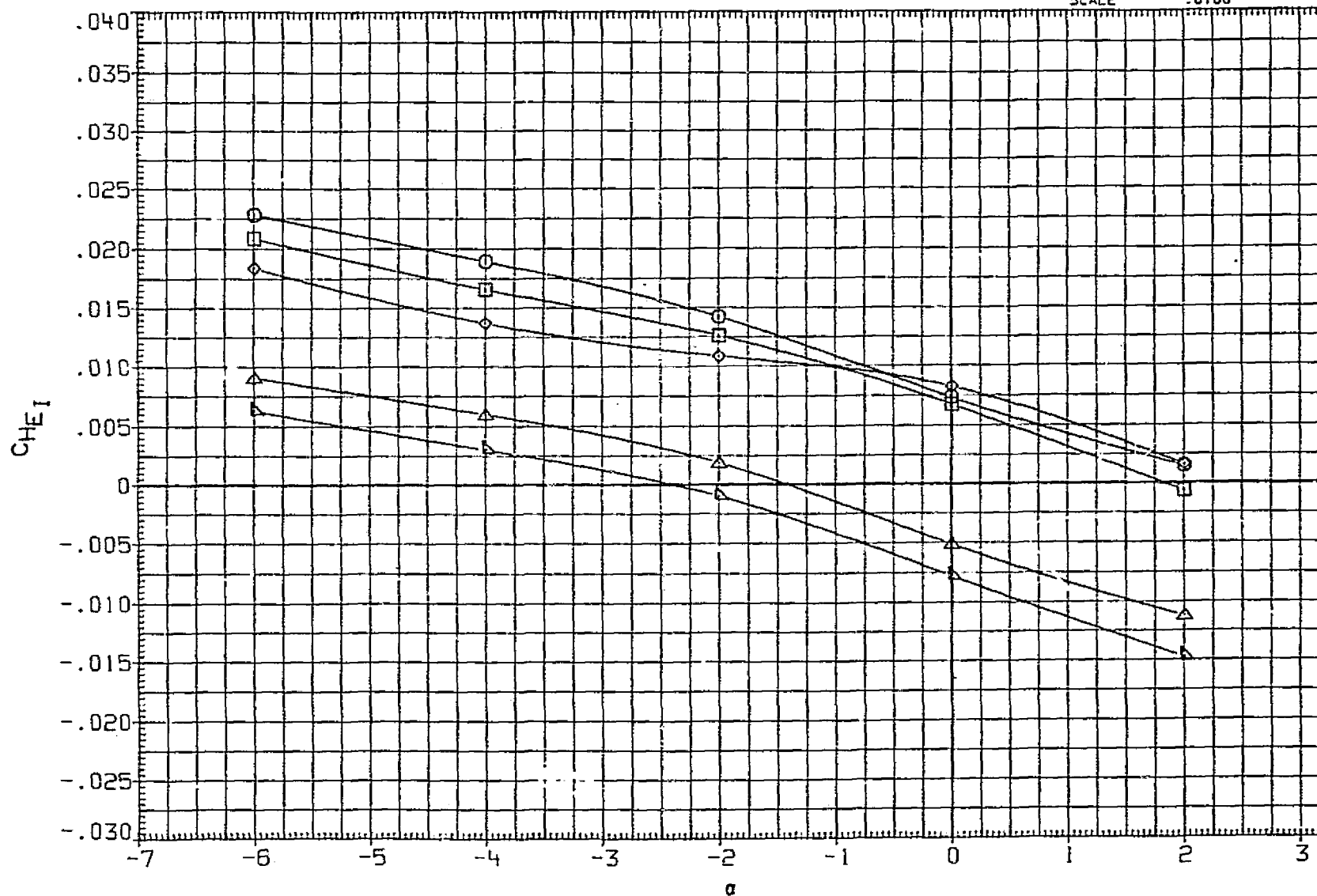


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L3	ELV-R1	ELV-R3	REFERENCE INFORMATION
MJJB32	○ LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF 2690.0000 SQ.FT.
MJJB33	□ LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF 1290.3000 INCHES
MJJB34	◇ LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF 1290.3000 INCHES
MJJB35	△ LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP 976.0000 IN. XT
MJJB36	▽ LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

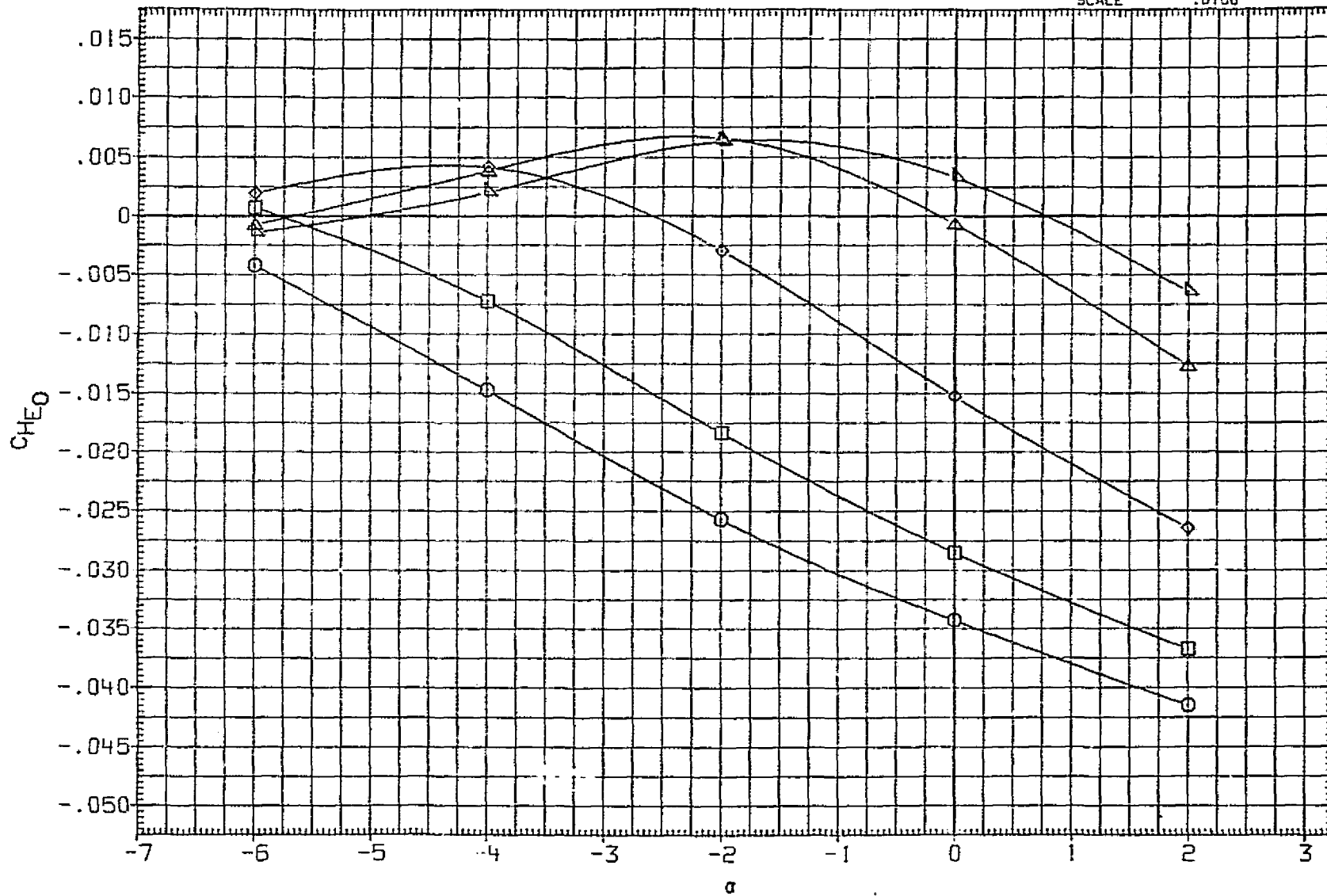


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-5.000	12.000	9.000	12.000	9.000	SREF	2690.0000	50.FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

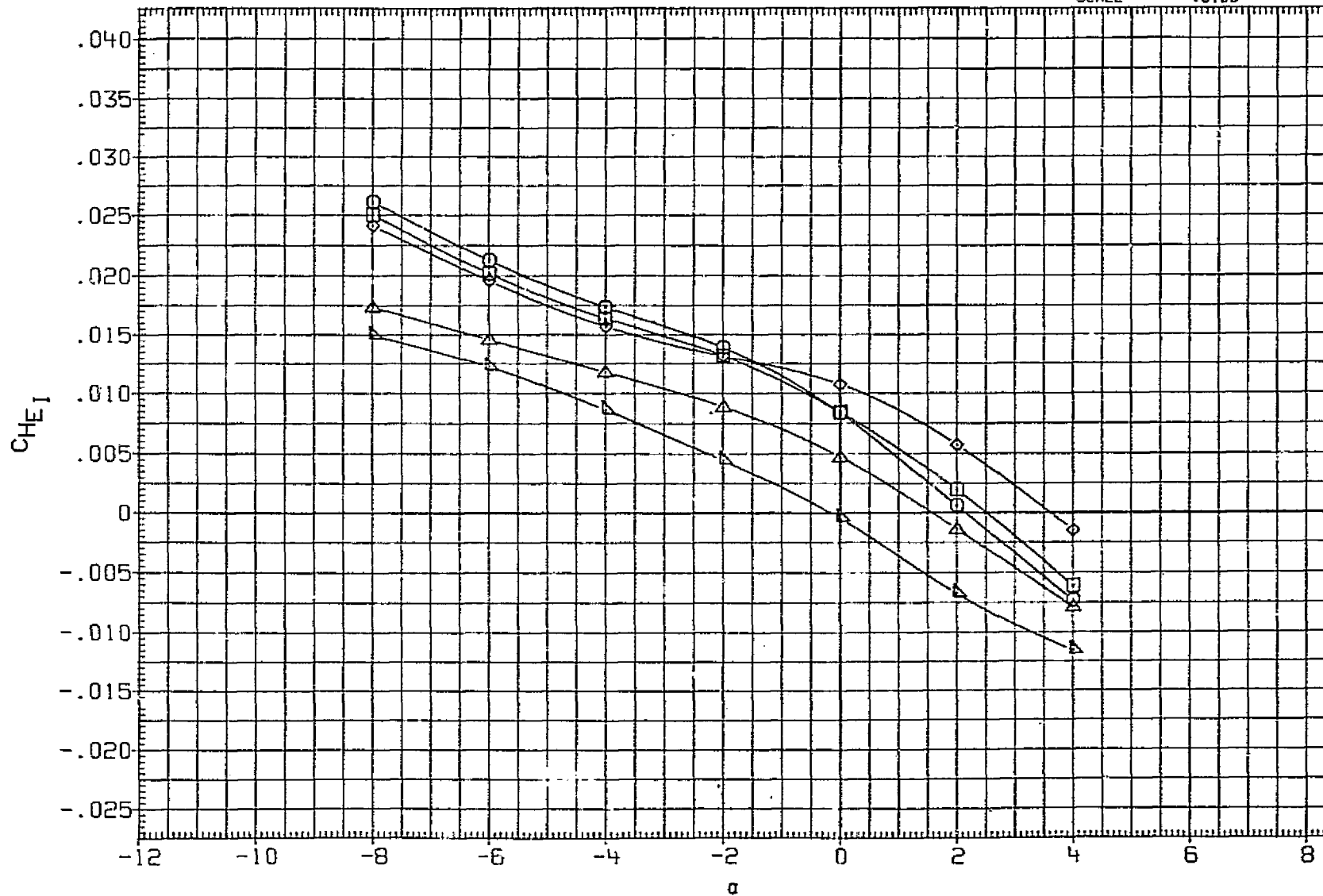


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB32	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	9.000	12.000	9.000	SREF	2690.0000	SQ. FT.
MJJB33	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	9.000	12.000	9.000	LREF	1290.3000	INCHES
MJJB34	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	9.000	12.000	9.000	BREF	1290.3000	INCHES
MJJB35	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	9.000	12.000	9.000	XMRP	976.0000	IN. XT	
MJJB36	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	9.000	12.000	9.000	YMRP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

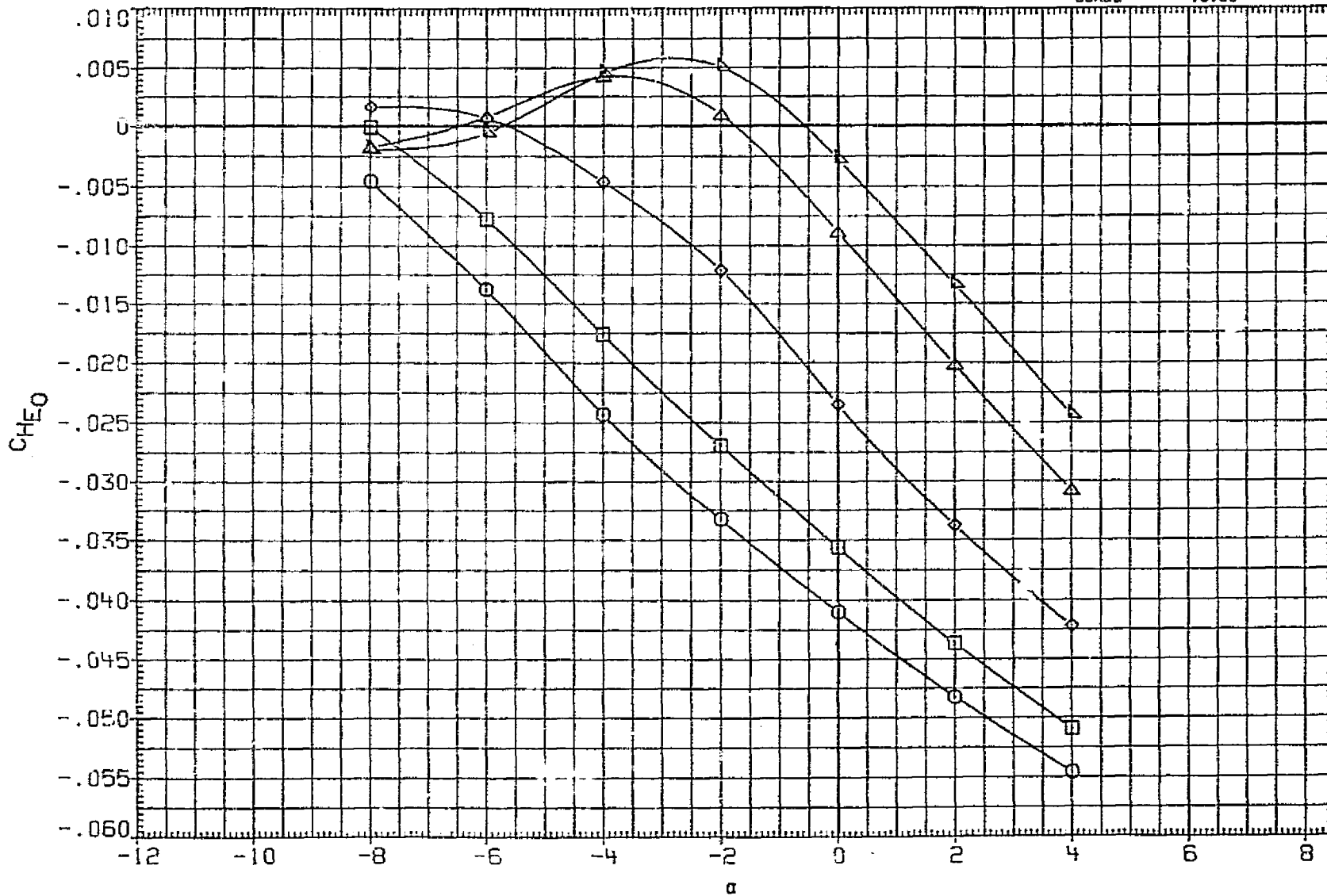


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(D) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50.FT.
MJJB38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT	
MJJB41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

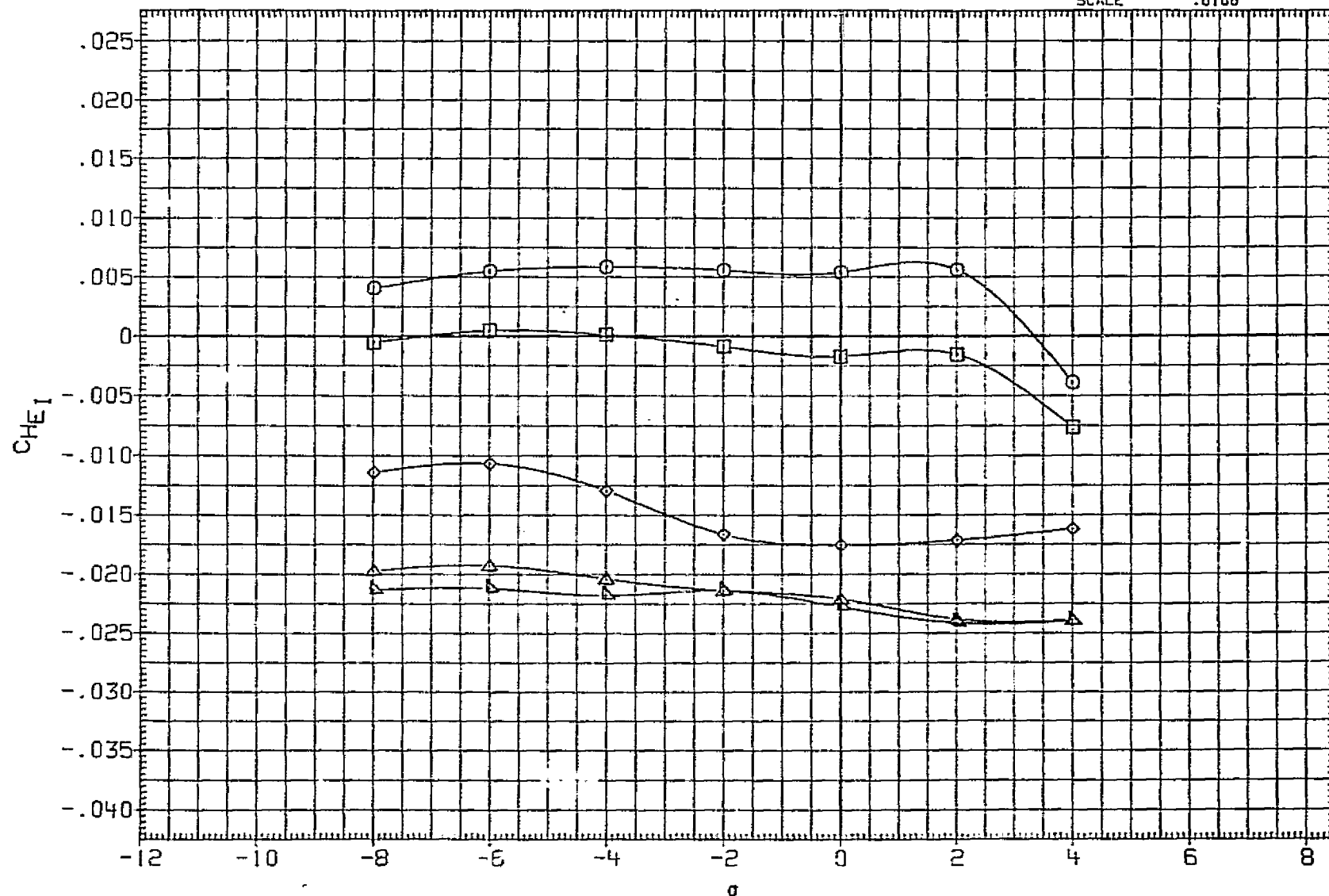


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50.FT.
MJJB38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

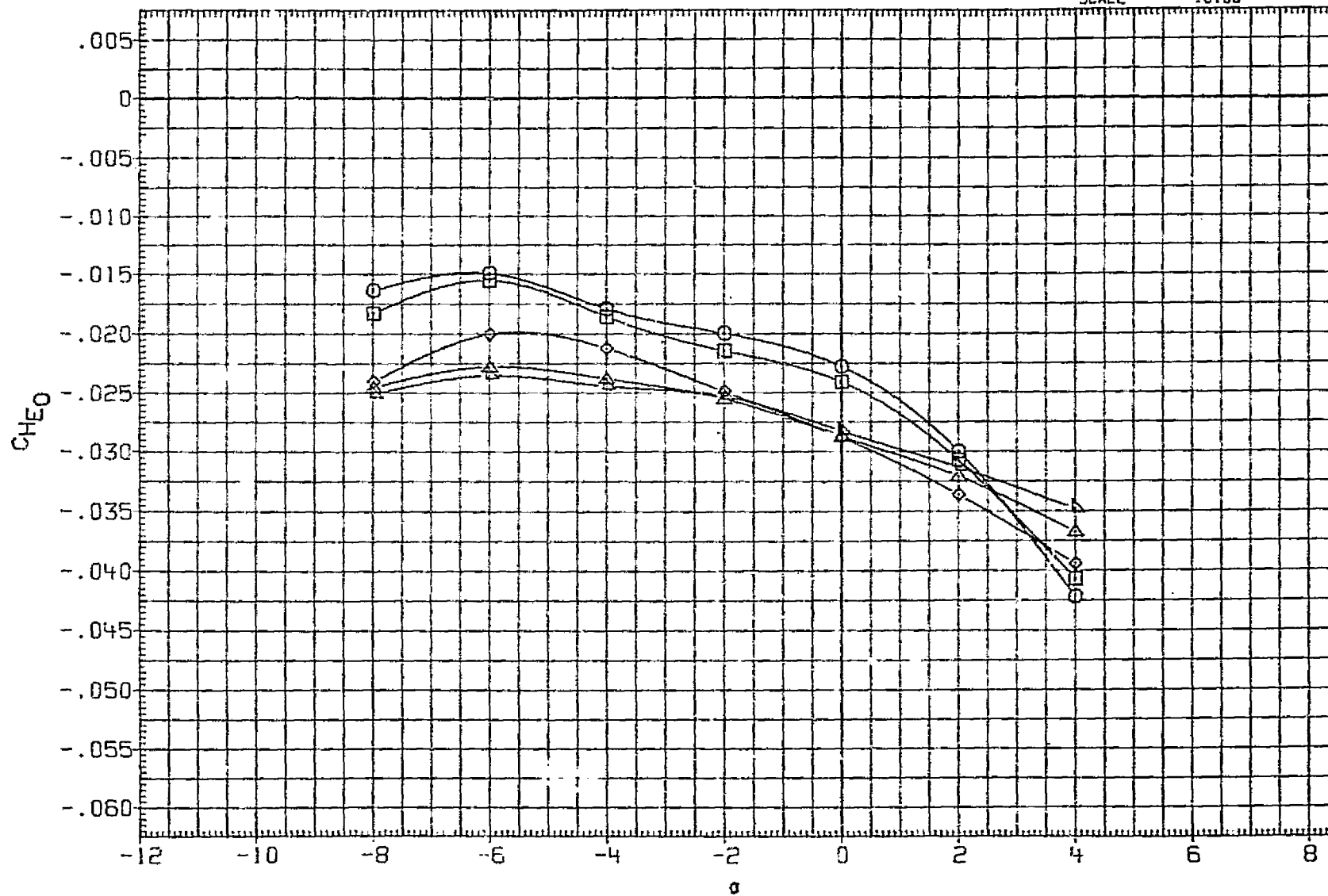


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB37	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2690.0000	50. FT.
MJJB38	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJJB39	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJJB40	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	976.0000	IN. XT
MJJB41	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

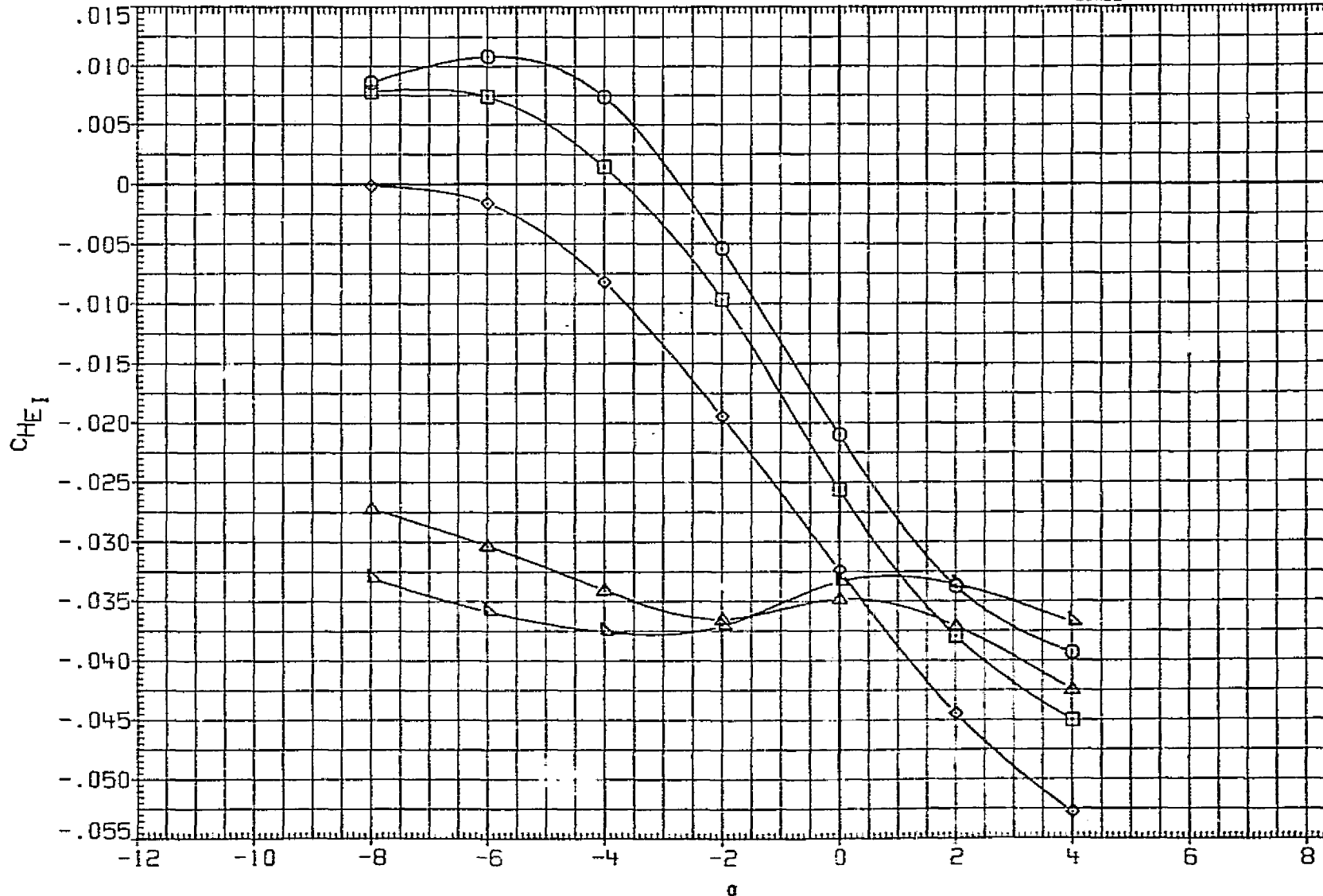


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJB37	LARC BFT TPT 749 (A93) OTSAT130	-6.000	12.000	14.000	12.000	14.000	SREF	2590.0000	50.FT.
MJB38	LARC BFT TPT 749 (A93) OTSAT130	-4.000	12.000	14.000	12.000	14.000	LREF	1290.3000	INCHES
MJB39	LARC BFT TPT 749 (A93) OTSAT130	.000	12.000	14.000	12.000	14.000	BREF	1290.3000	INCHES
MJB40	LARC BFT TPT 749 (A93) OTSAT130	4.000	12.000	14.000	12.000	14.000	XMRP	975.0000	IN. XT
MJB41	LARC BFT TPT 749 (A93) OTSAT130	6.000	12.000	14.000	12.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

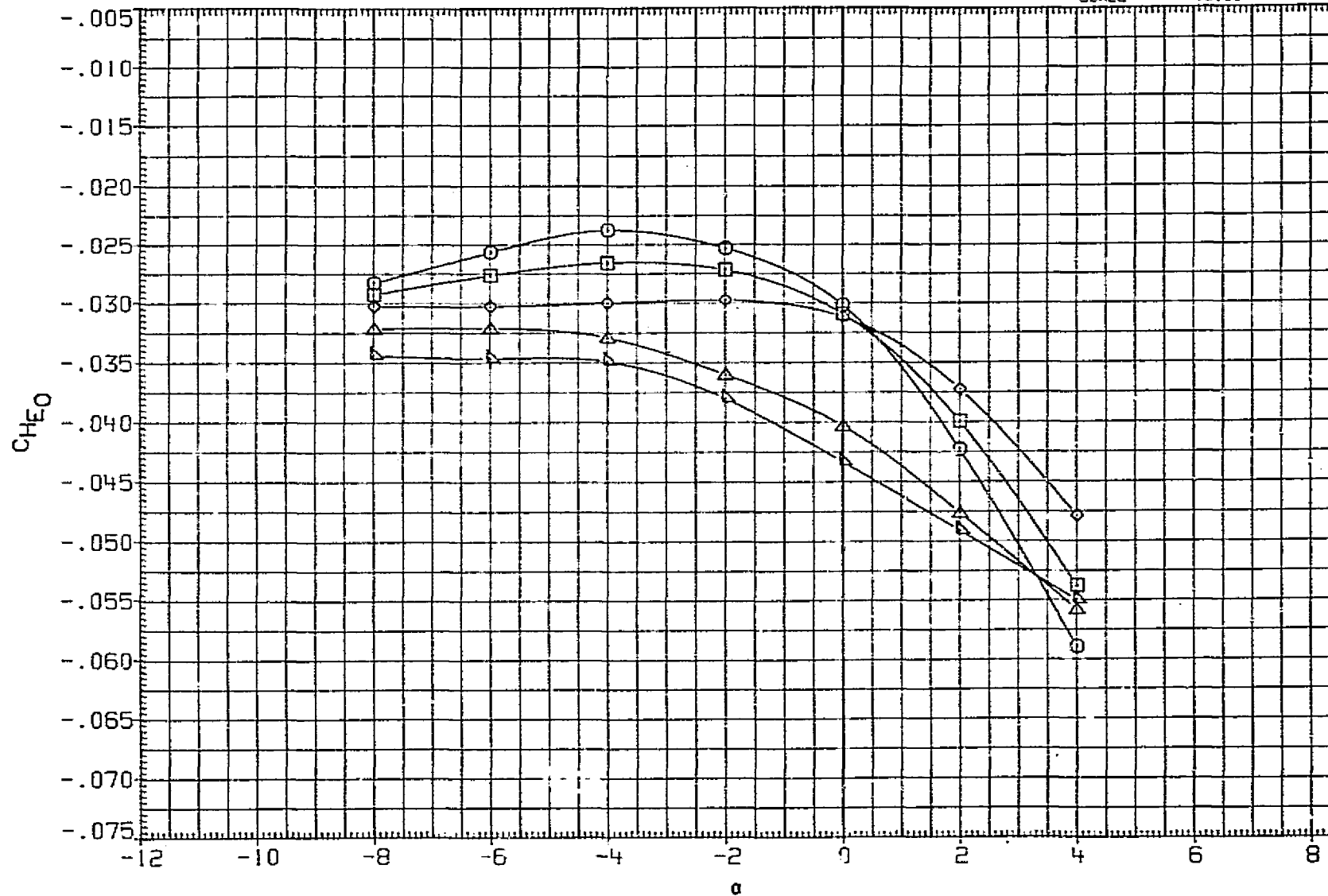


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-Li	ELV-LO	ELV-Ri	ELV-RO	REFERENCE INFORMATION	
MJJ842	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000 SQ.FT.
MJJ843	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000 INCHES
MJJ844	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	SREF	1290.3000 INCHES
MJJ845	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	14.000	8.000	14.000	XMRP	976.0000 IN. XT	
MJJ846	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000 IN. YT
								ZMRP	400.0000 IN. ZT
								SCALE	.0100

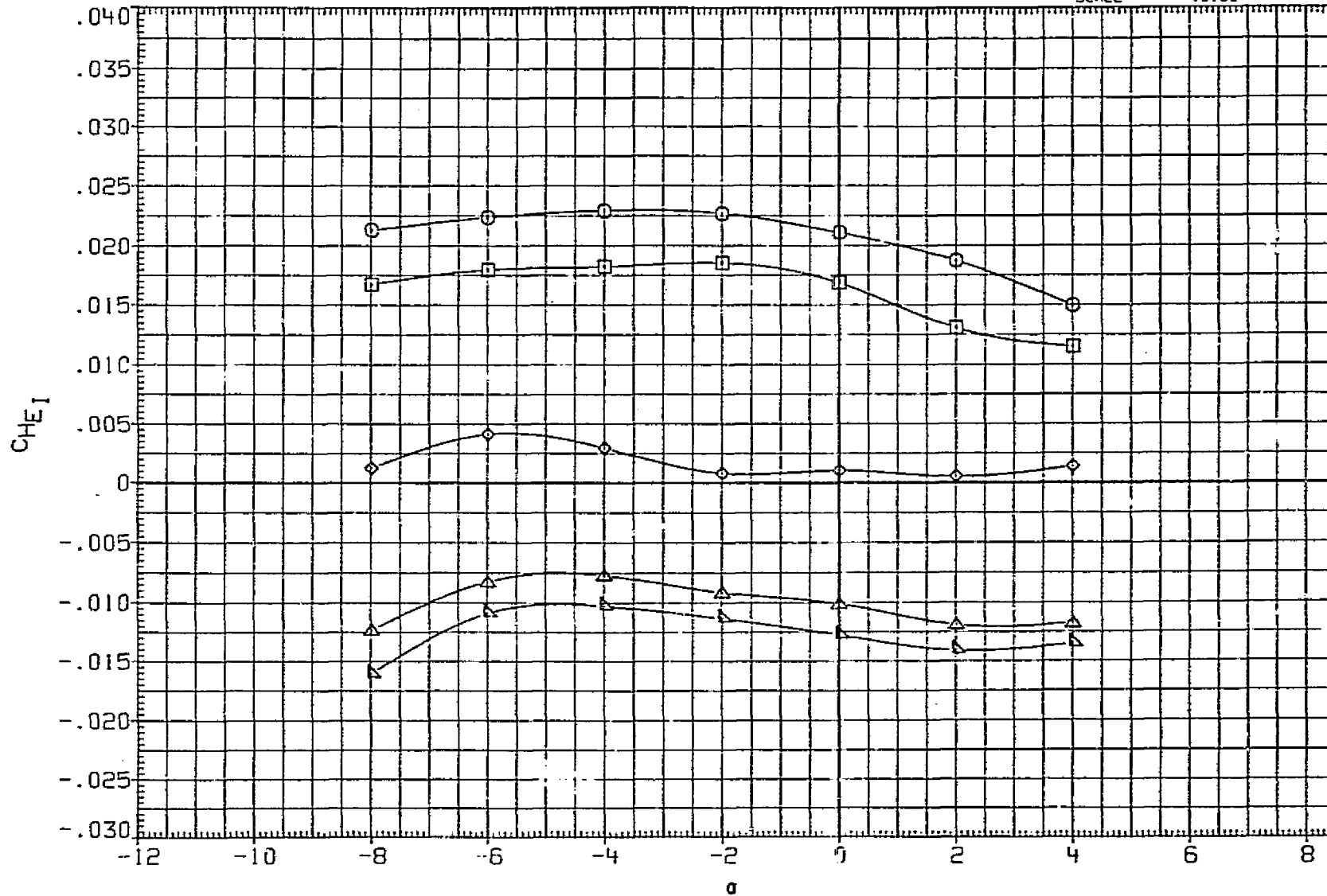


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB42	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	50. FT.
MJJB43	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.3000	INCHES
MJJB45	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT
MJJB46	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
							ZMRP	400.0000	IN. ZT
							SCALE	.0100	

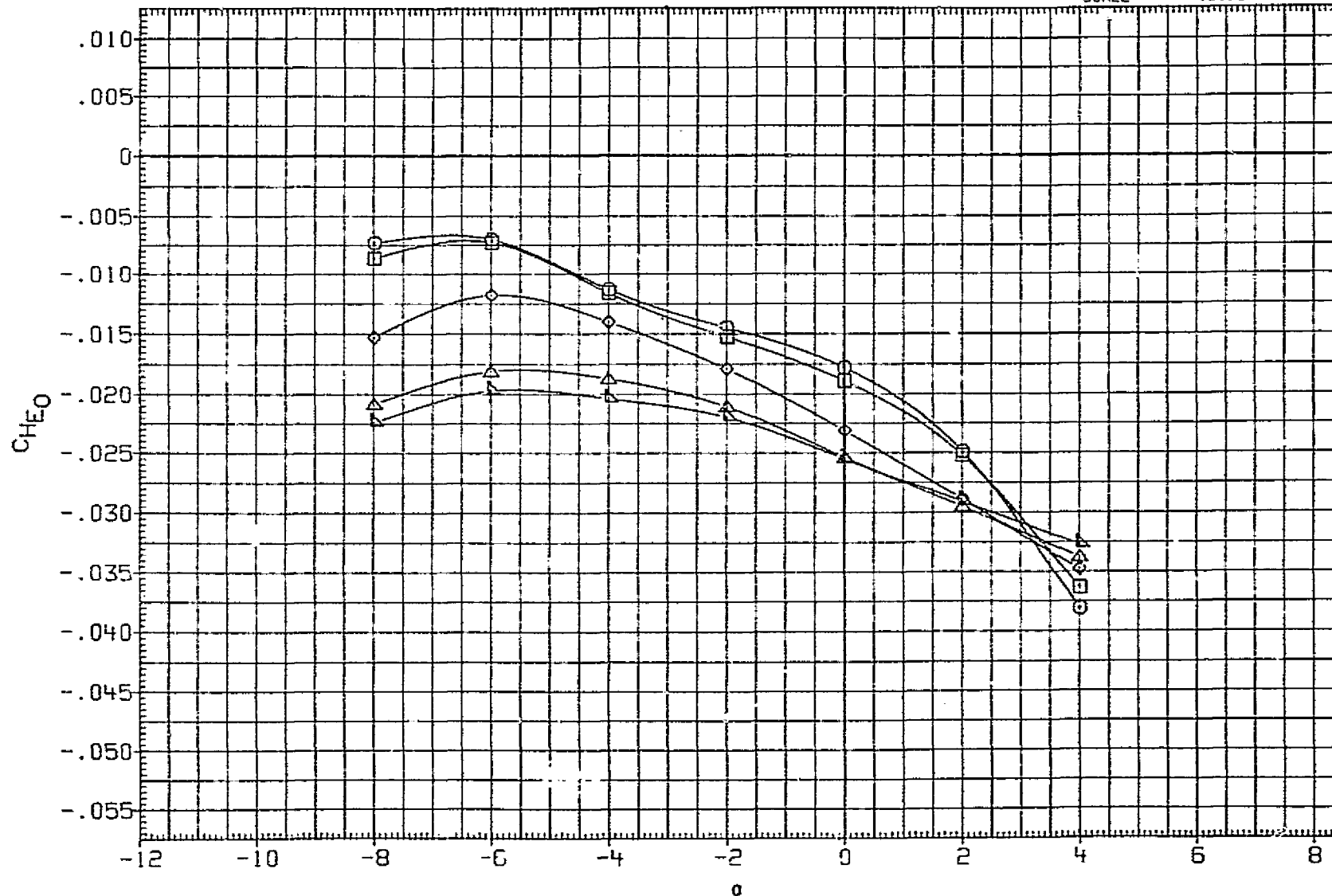


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB42	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF	2690.0000	SQ.FT.
MJJB43	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF	1290.3000	INCHES
MJJB44	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF	1290.5000	INCHES
MJJB45	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	14.000	8.000	14.000	XMRP	976.0000	IN. XT	
MJJB46	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

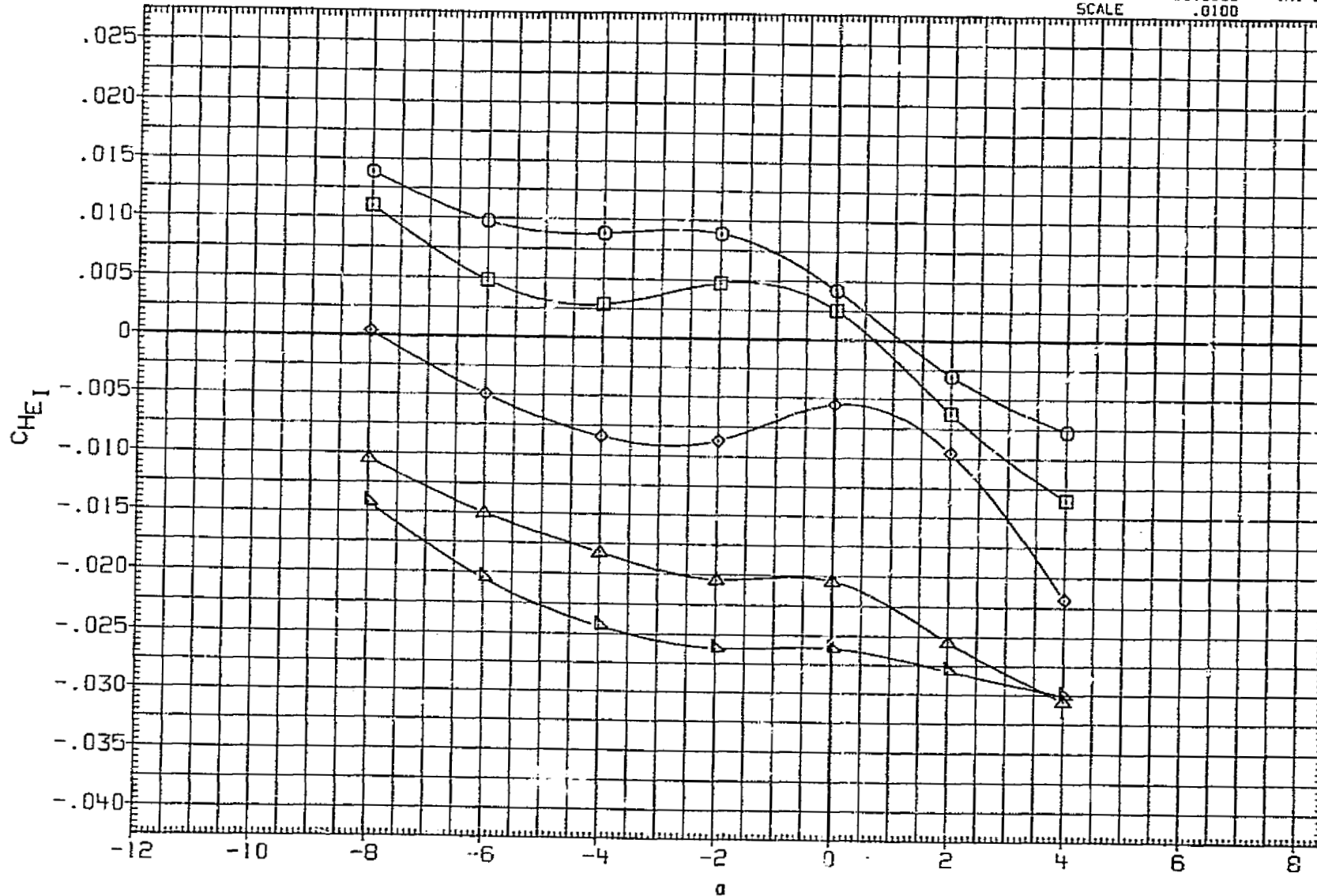


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B) MACH = .98

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION
MJJB42	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	14.000	8.000	14.000	SREF 2690.0000 SQ.FT.
MJJB43	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	14.000	8.000	14.000	LREF 1290.3000 INCHES
MJJB44	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	14.000	8.000	14.000	BREF 1290.3000 INCHES
MJJB45	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	14.000	8.000	14.000	XMRP 976.0000 IN. XT
MJJB46	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	14.000	8.000	14.000	YMRP .0000 IN. YT
							ZMRP 400.0000 IN. ZT
							SCALE .0100

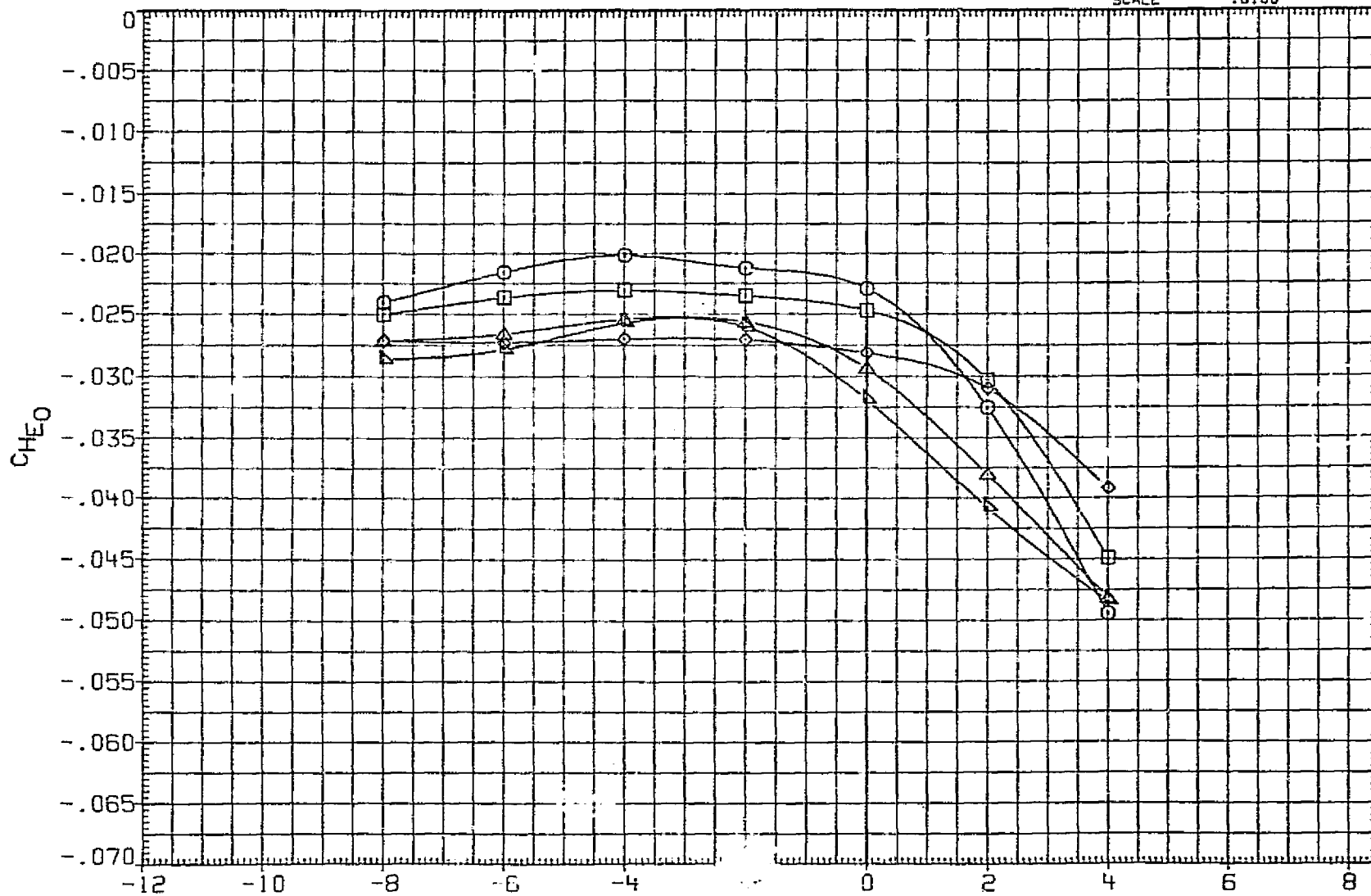


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

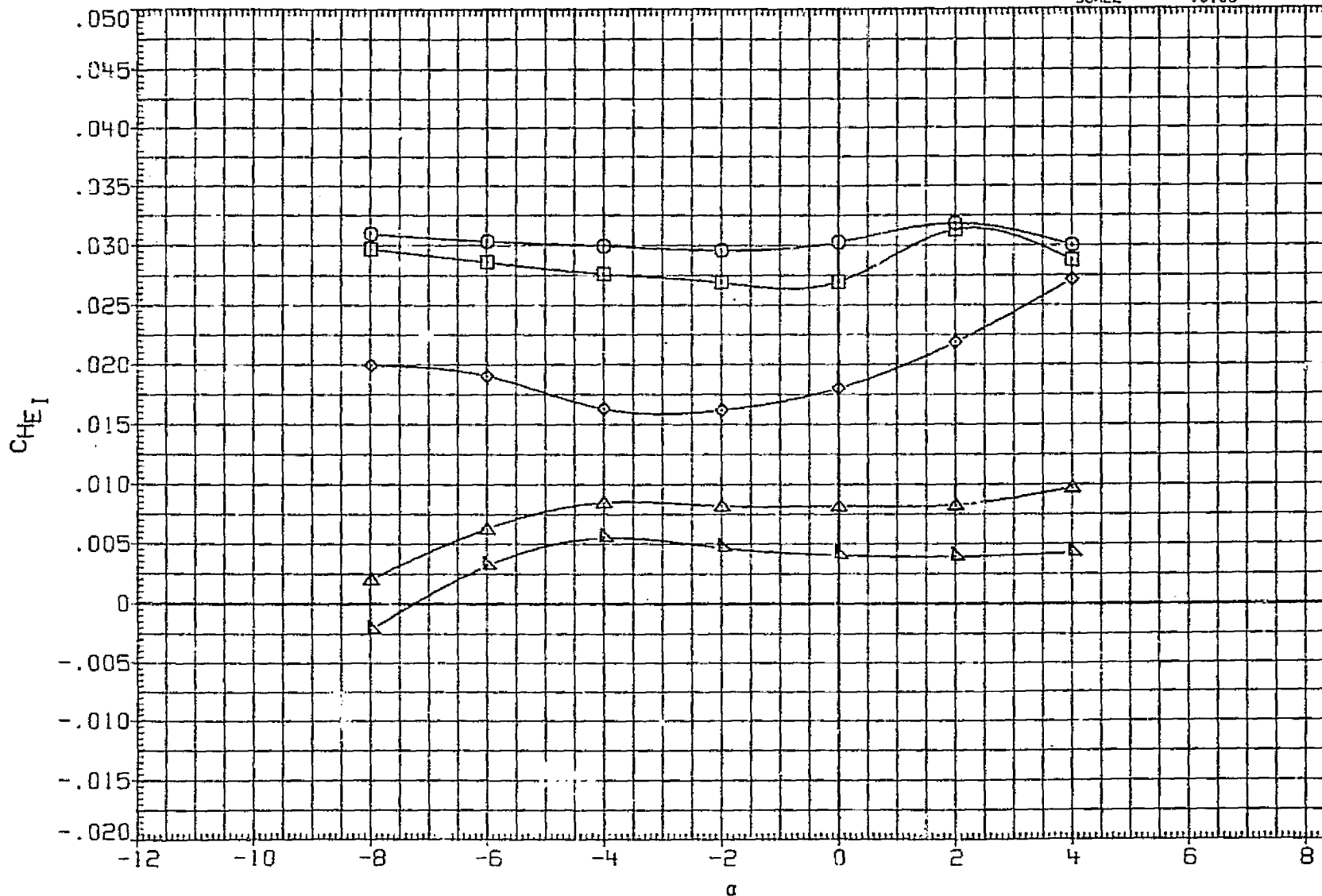


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RD	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ.FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

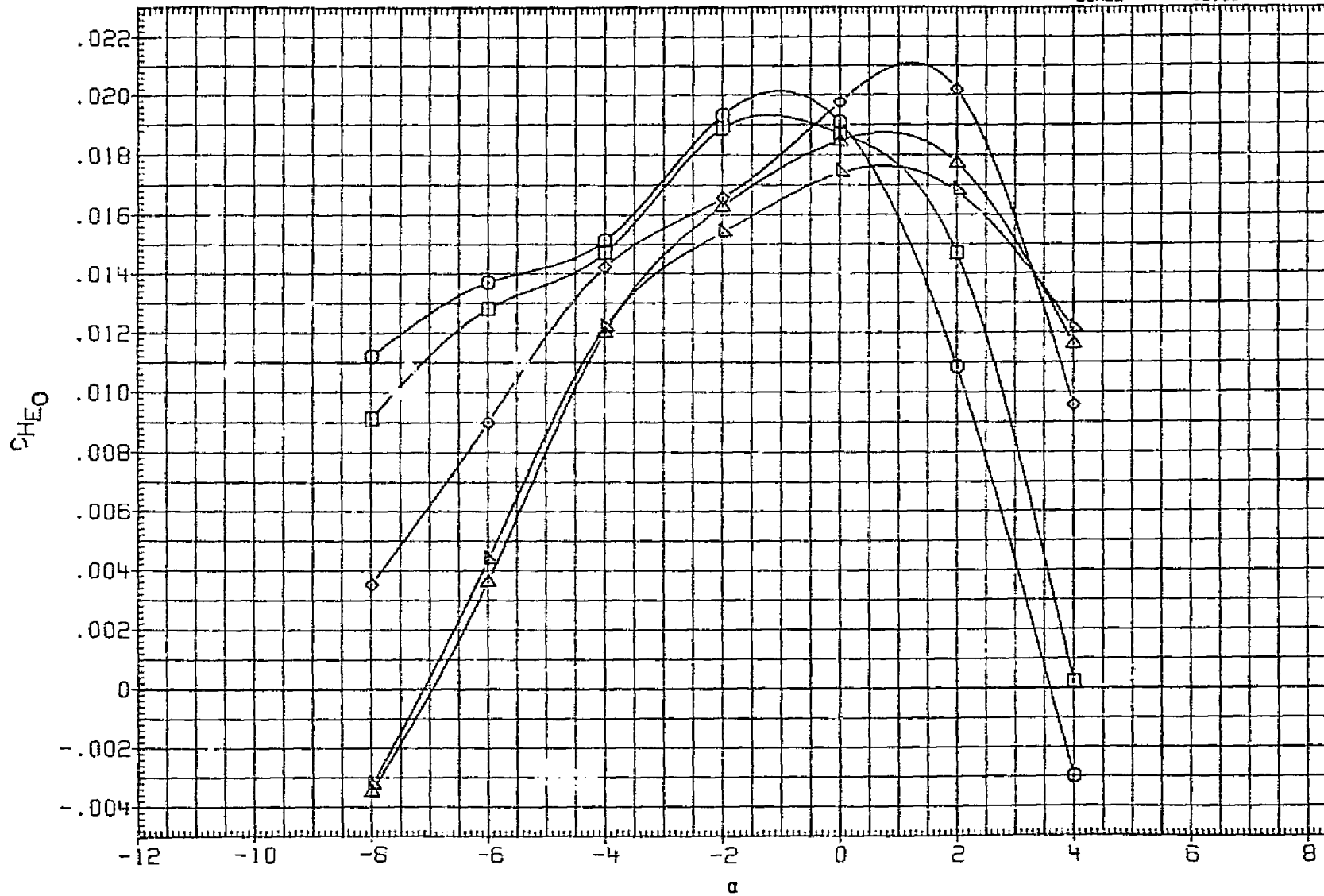


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ847	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.000	50.FT.
MJJ848	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJ849	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJ850	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJ851	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

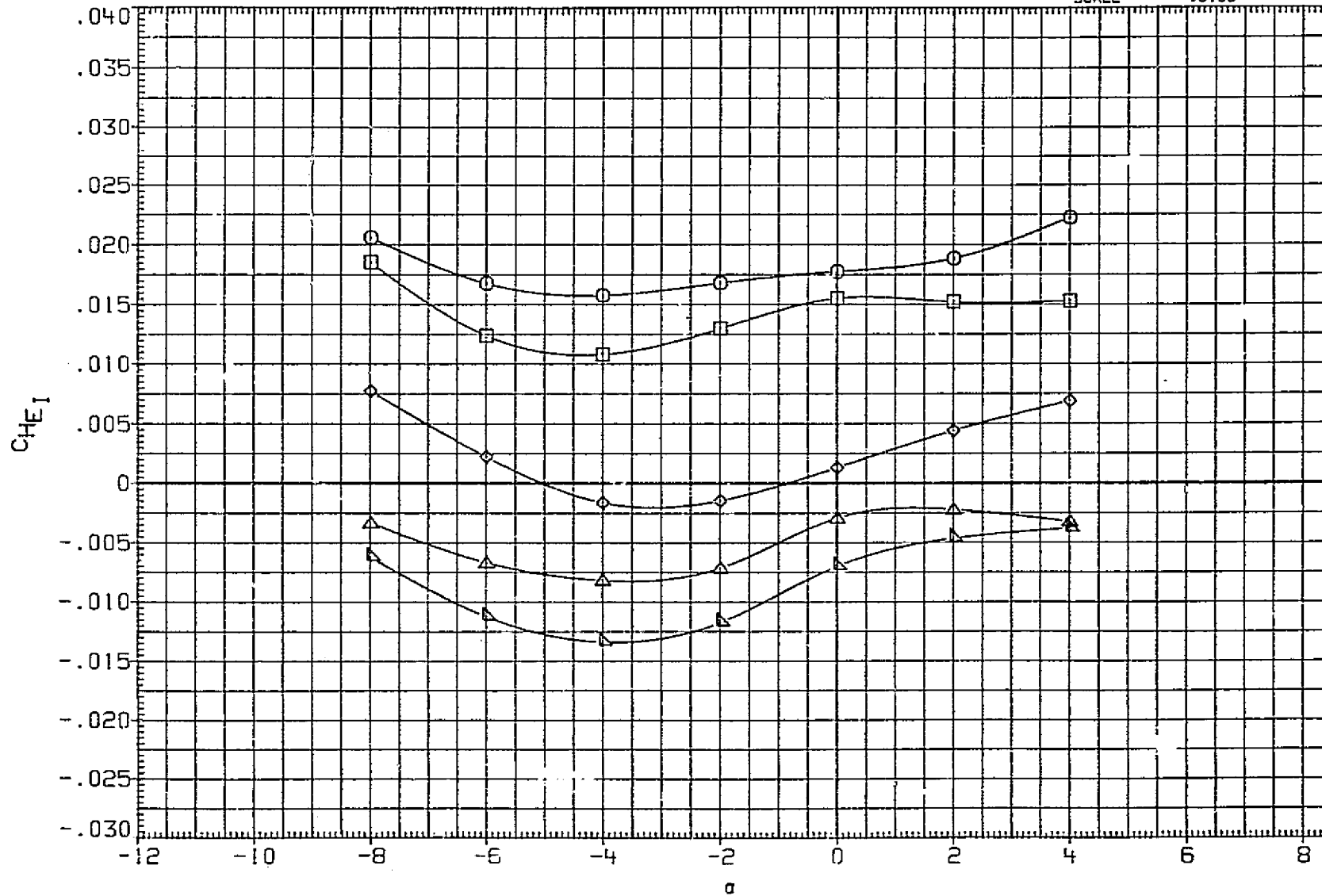


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ847	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50.FT.
MJJ848	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJ849	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJ850	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJ851	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

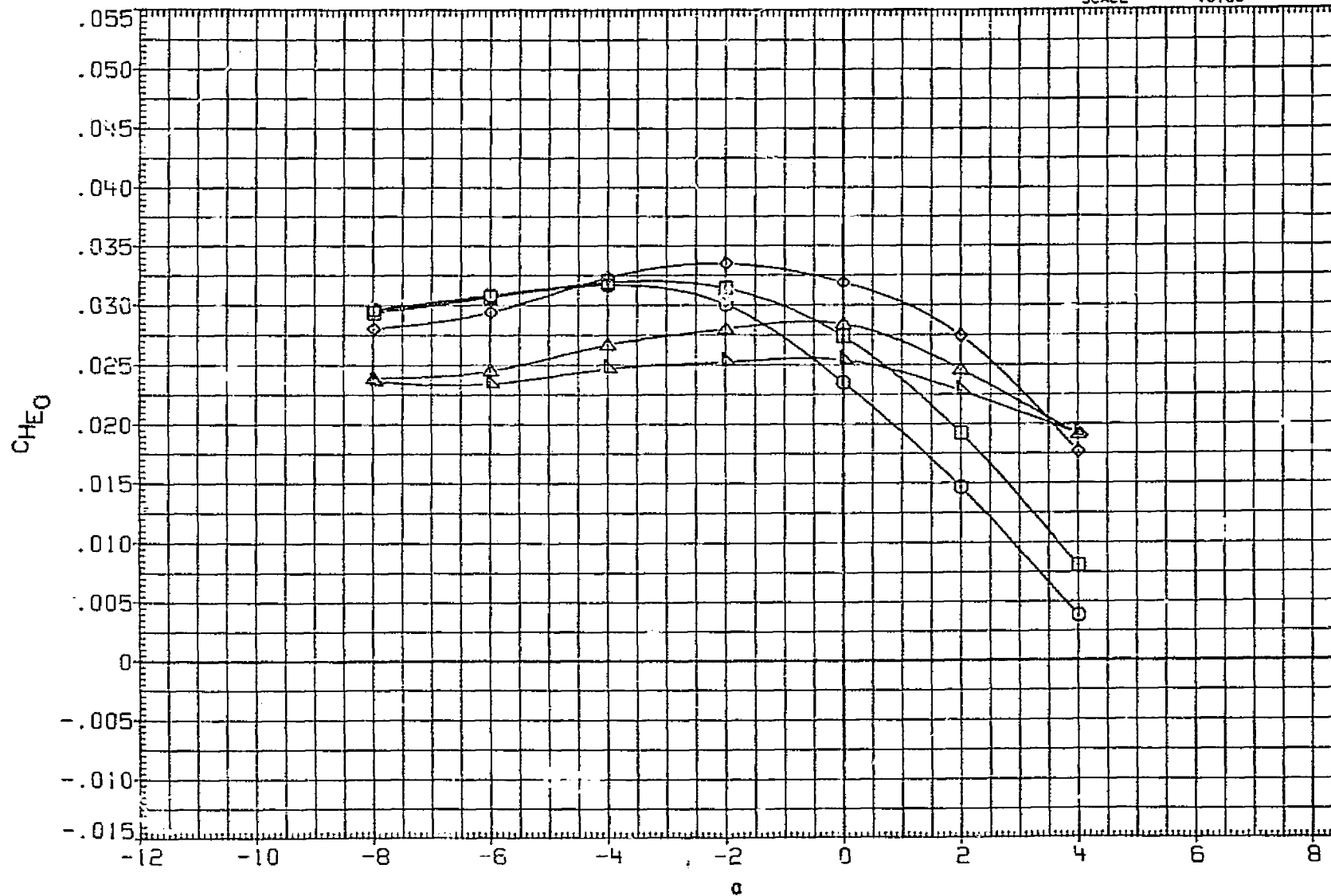


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

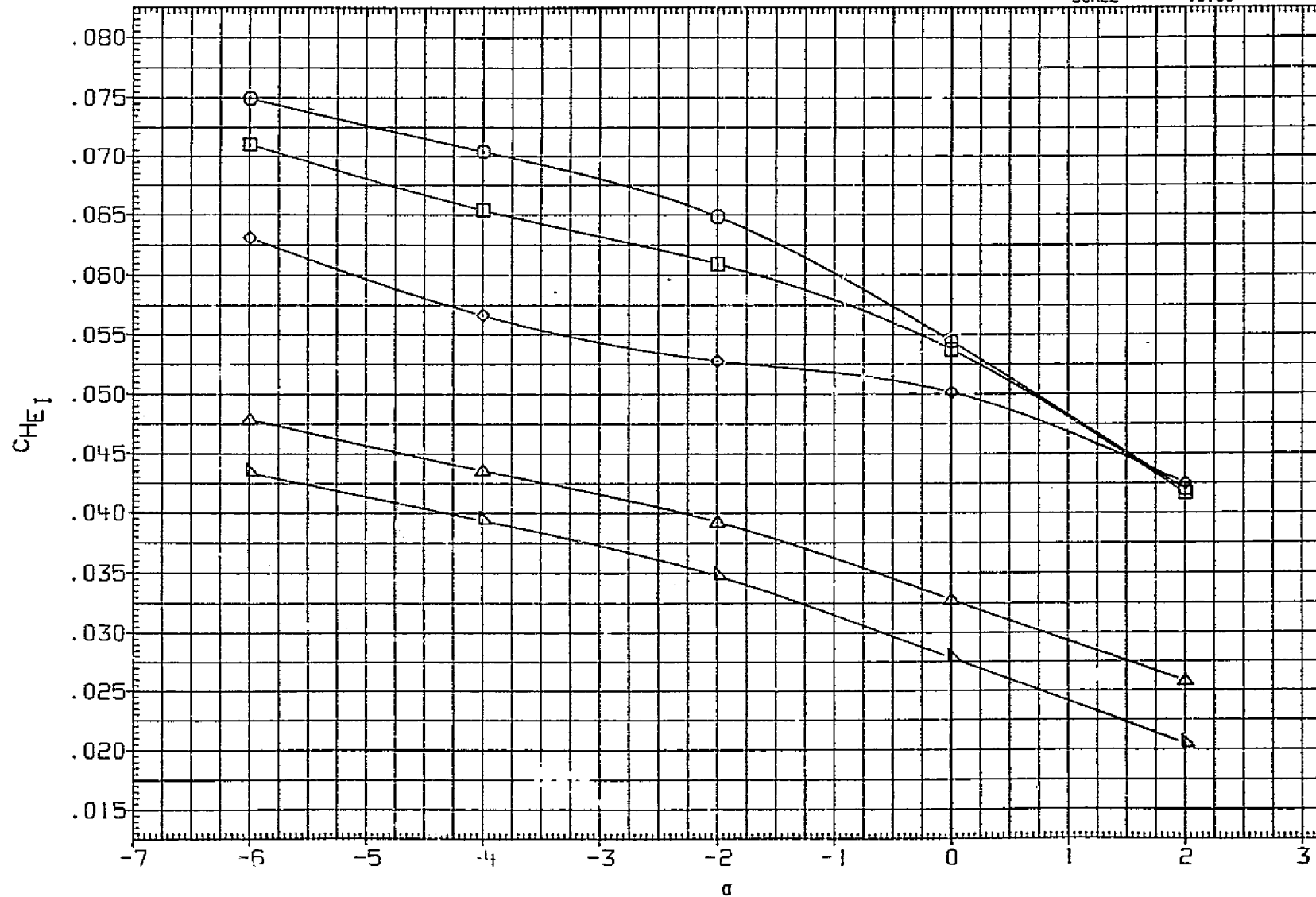


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	SQ. FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

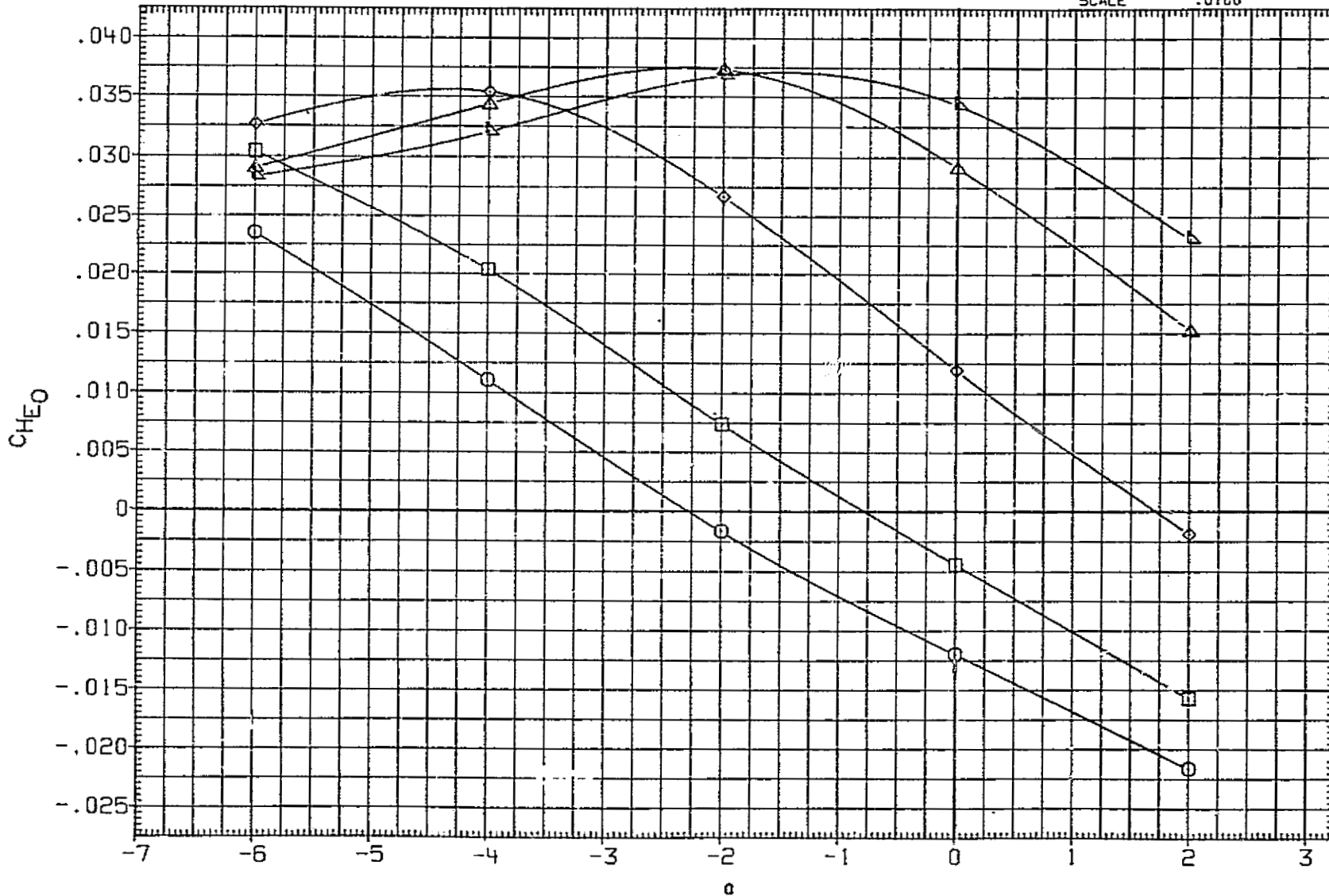


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(C)MACH = 1.15

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJ950	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

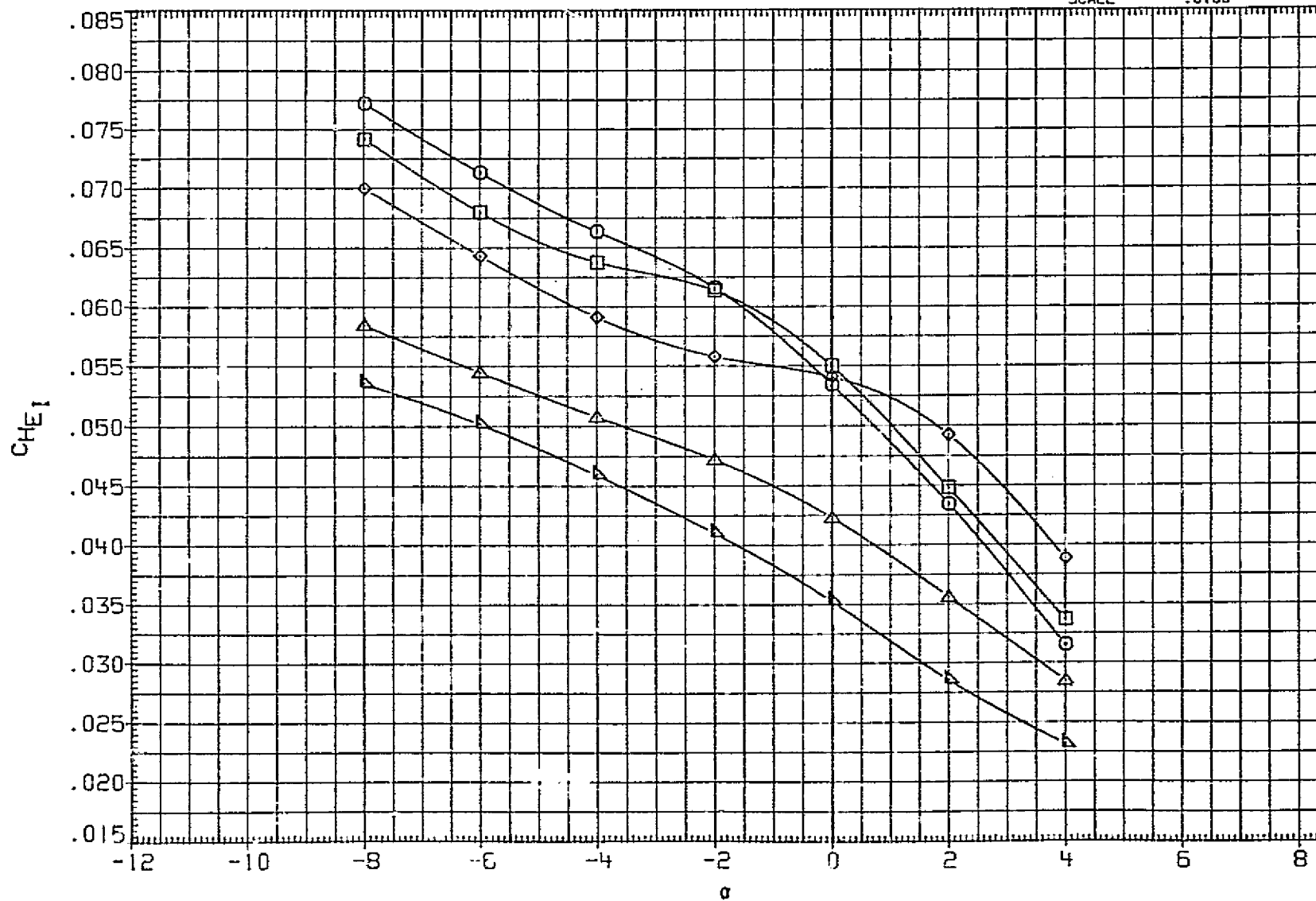


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB47	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	4.000	8.000	4.000	SREF	2690.0000	50. FT.
MJJB48	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	4.000	8.000	4.000	LREF	1290.3000	INCHES
MJJB49	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	4.000	8.000	4.000	BREF	1290.3000	INCHES
MJJB50	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	4.000	8.000	4.000	XMRP	976.0000	IN. XT
MJJB51	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	4.000	8.000	4.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

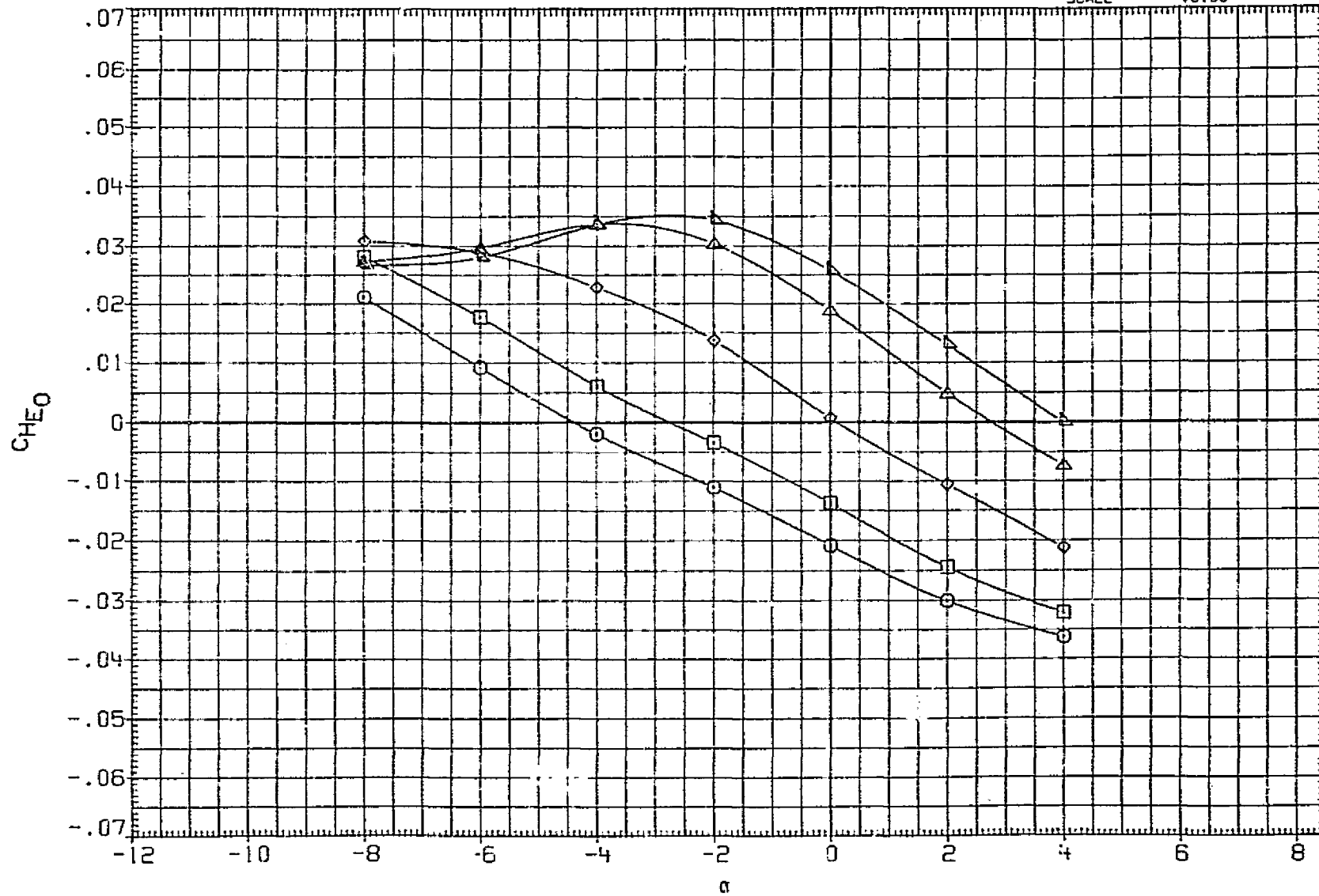


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LD	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB52	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50. FT.
MJJB53	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJB54	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJB55	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	976.0000	IN. XT
MJJB56	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.800	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

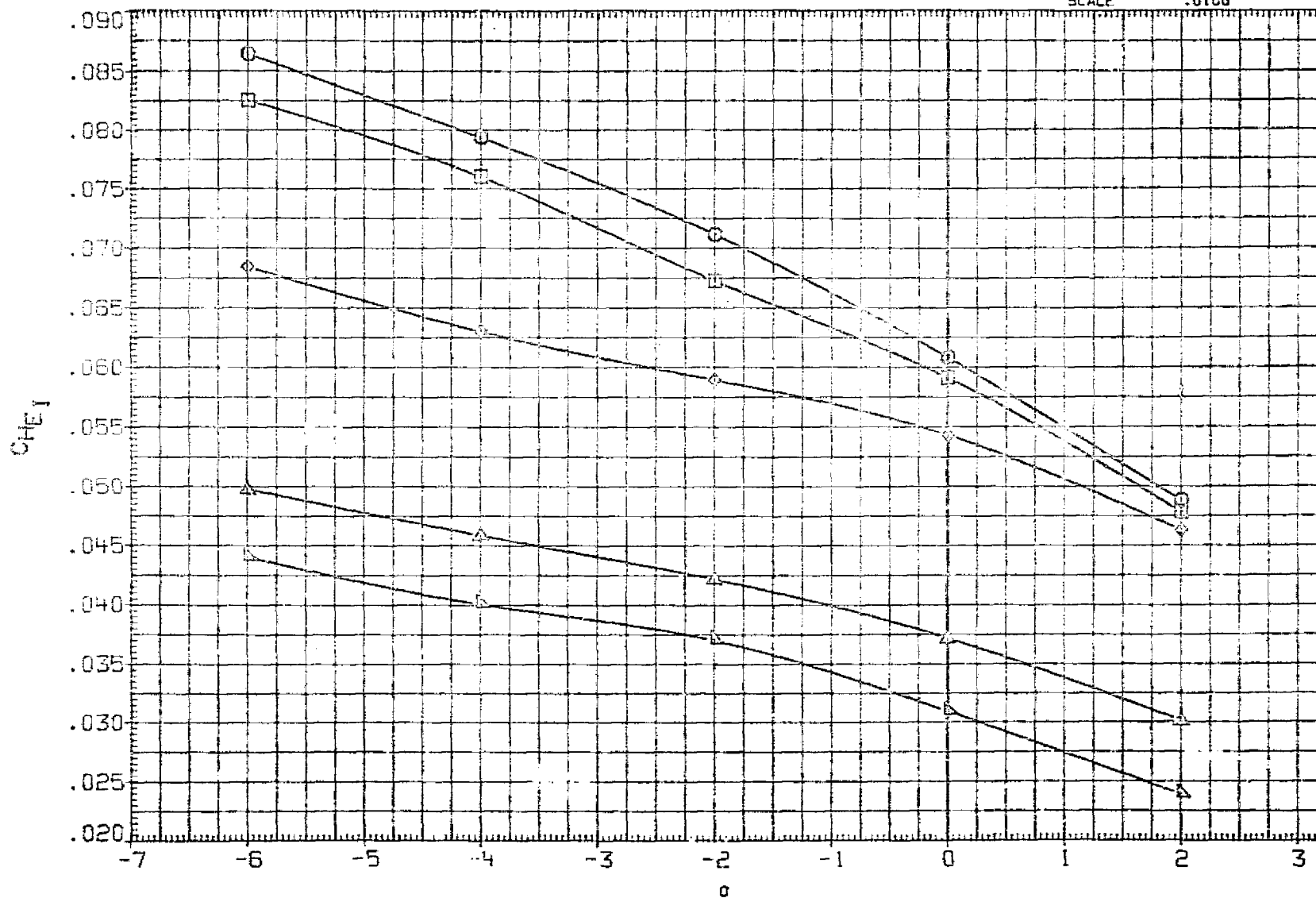


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ852	LARC BFT TPT 749 (1A93) OTSAT130	-5.000	8.000	-5.000	8.000	-5.000	SREF	2580.0000	SO. FT.
MJJ853	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.5000	INCHES
MJJ854	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1898.3000	INCHES
MJJ855	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	476.0000	IN. X1
MJJ856	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. Y1
							ZMRP	-00.0000	IN. Z1
							SCALE	.0100	

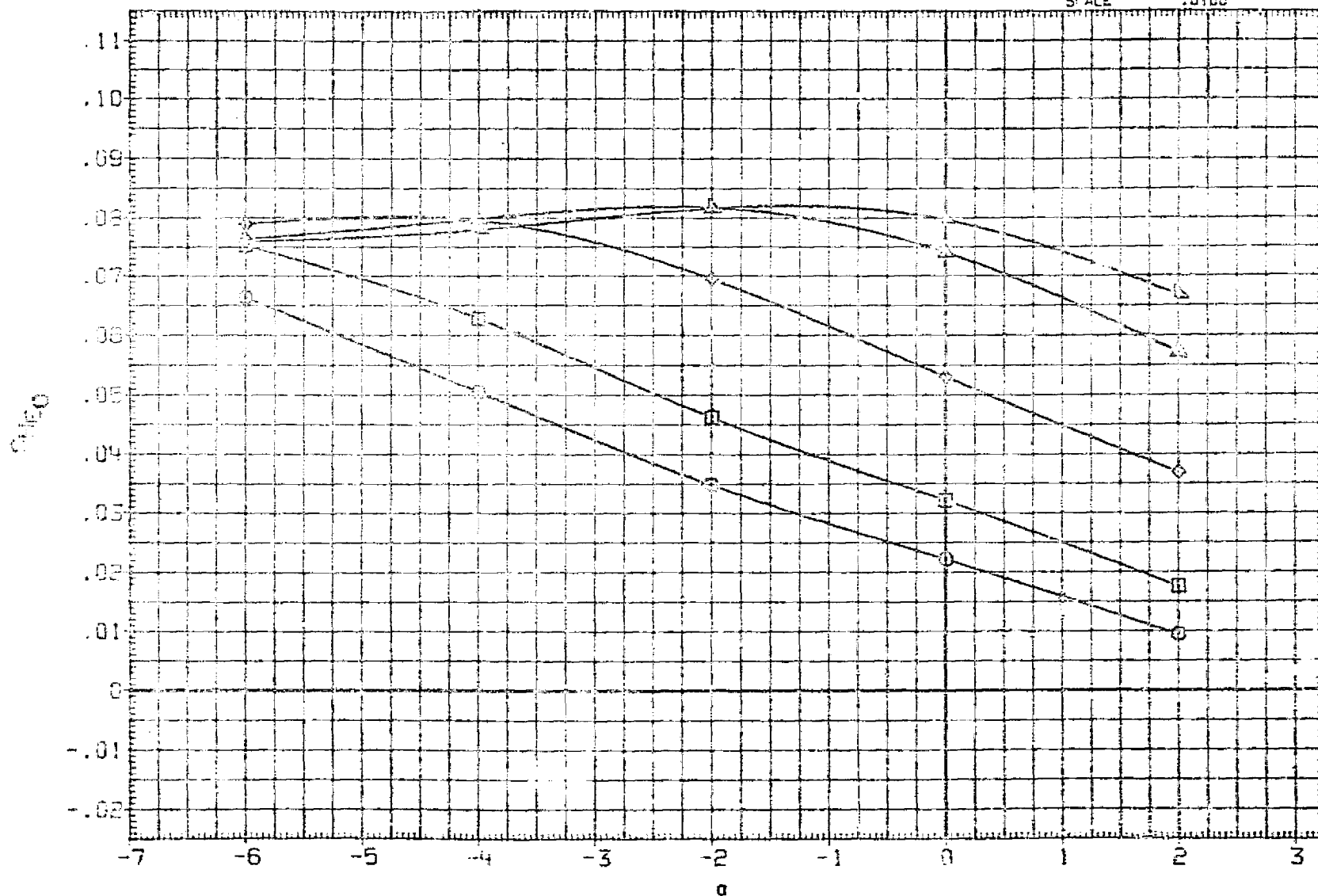


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LG	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJ852	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	50.FT.
MJJ853	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJ854	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJ855	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XGRP	976.0000	IN. XT
MJJ856	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YGRP	.0000	IN. YT
								ZGRP	*00.0000	IN. ZT
								SCALE	.0100	

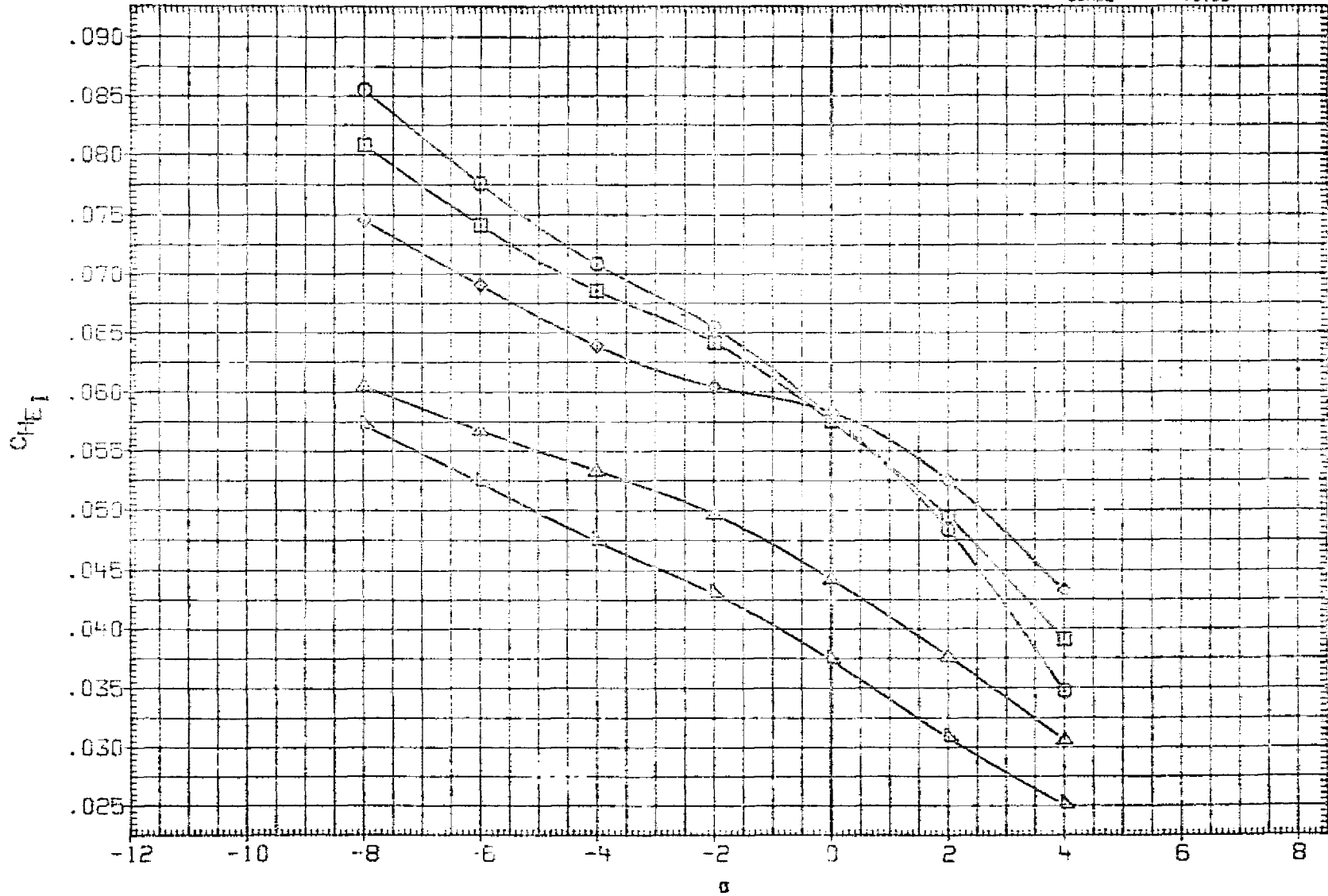


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJB52	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	-5.000	8.000	-5.000	SREF	2690.0000	SQ.FT.
MJJB53	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	-5.000	8.000	-5.000	LREF	1290.3000	INCHES
MJJB54	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	-5.000	8.000	-5.000	BREF	1290.3000	INCHES
MJJB55	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	-5.000	8.000	-5.000	XMRP	978.0000	IN. XT
MJJB56	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	-5.000	8.000	-5.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

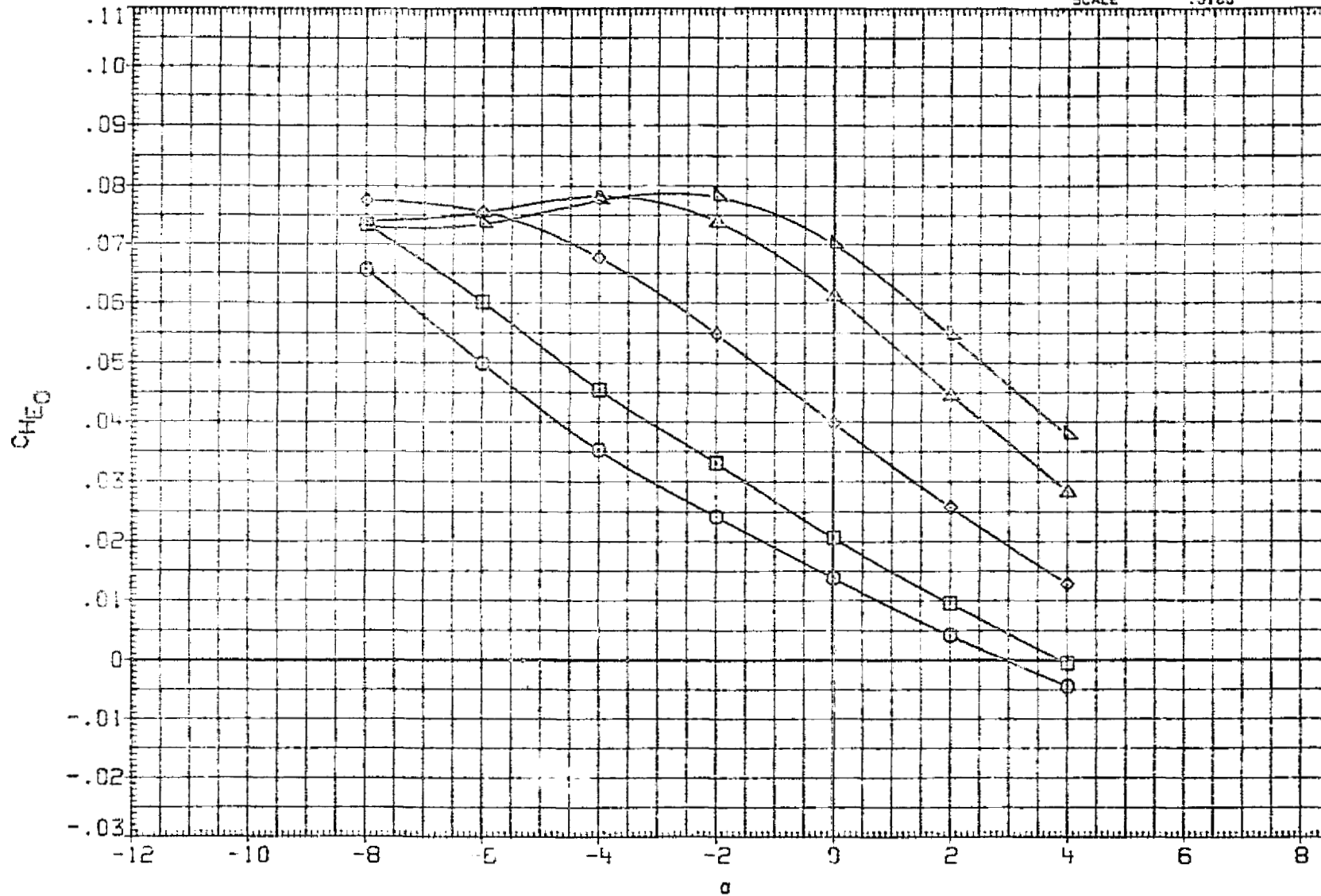


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B) MACH = 1.20

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-MI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.7000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. XT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

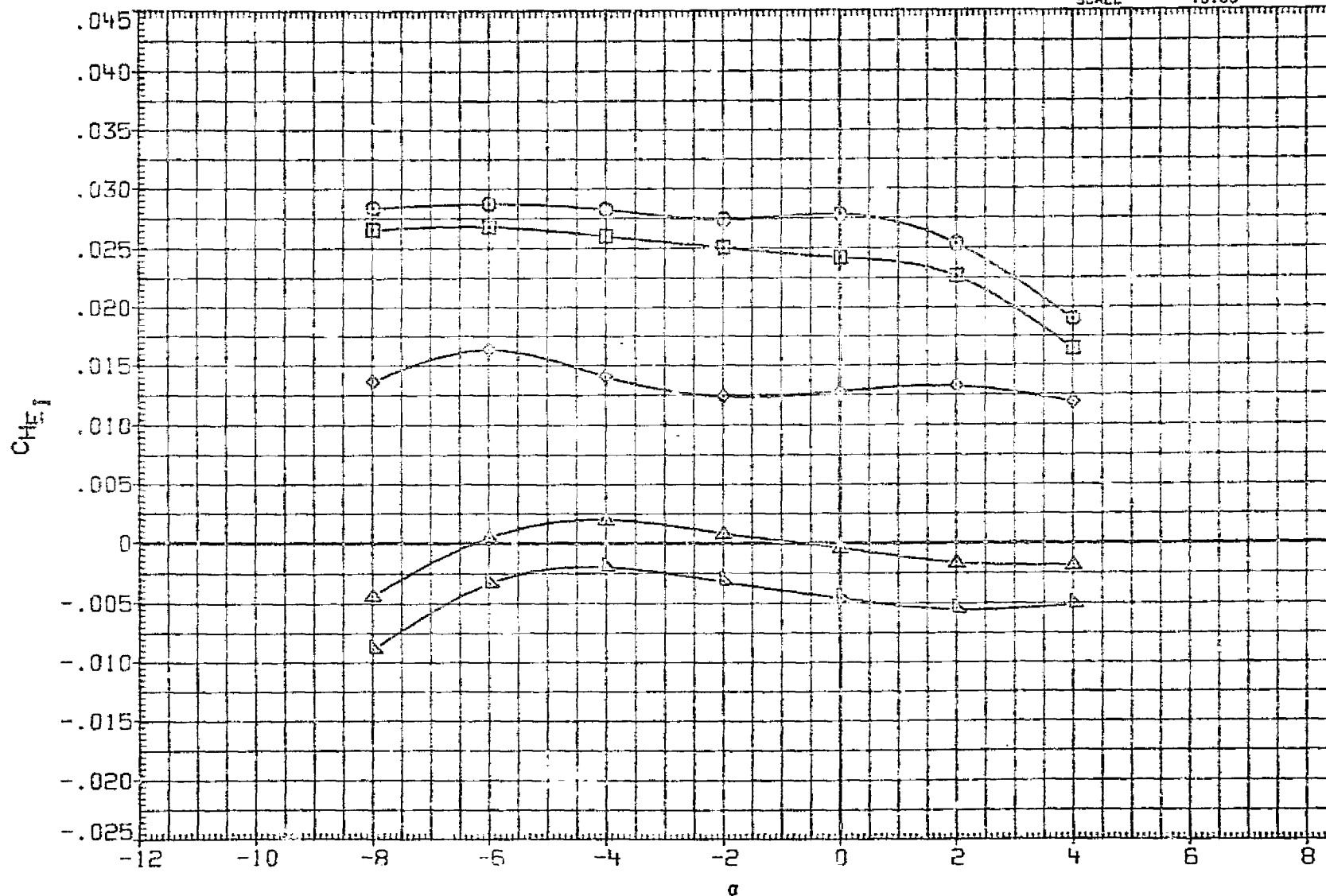


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2290.0000	50. FT.
MJJB58	□	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	9.000	8.600	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMAP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

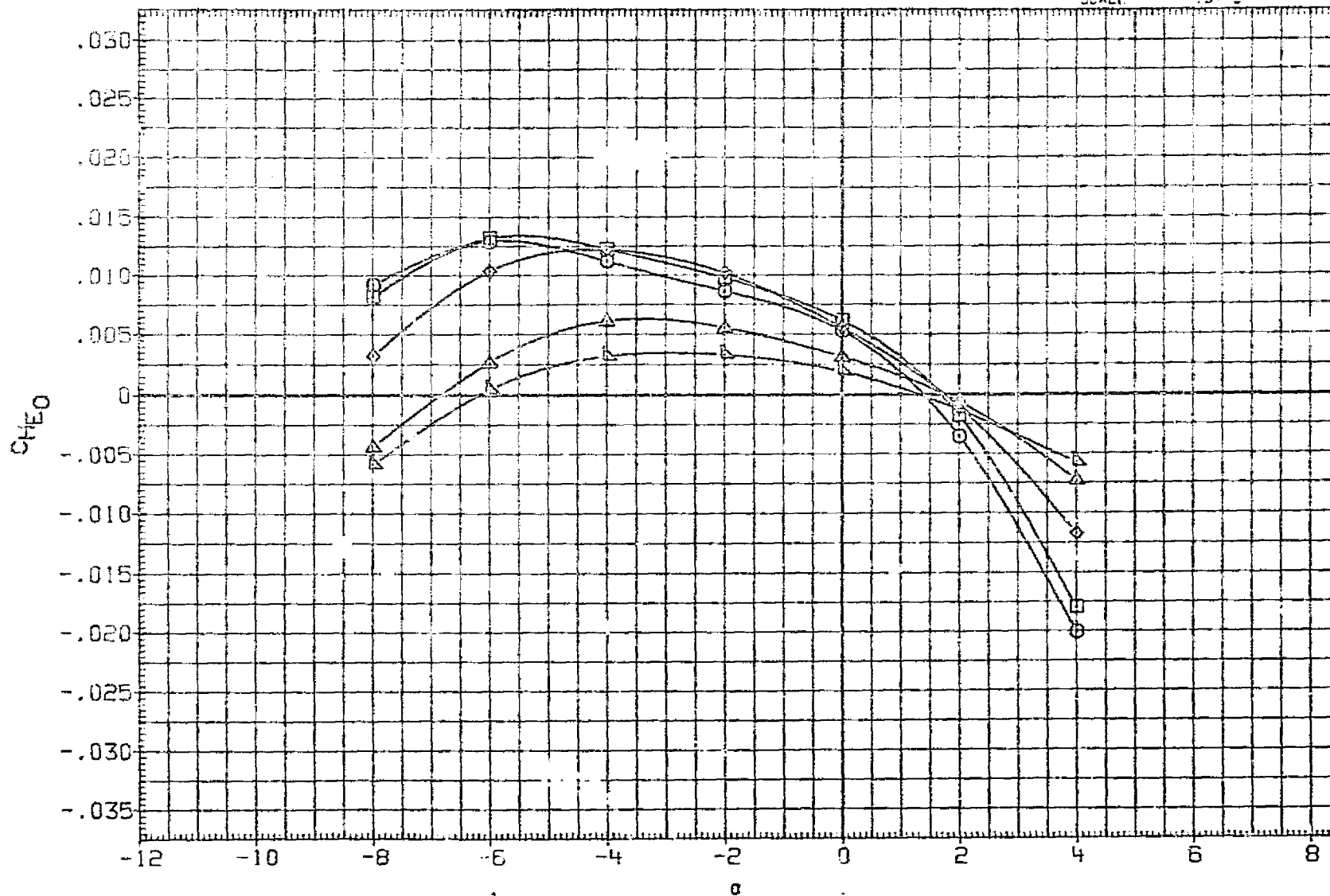


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-R'	ELV-RO	. REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1298.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1298.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	576.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

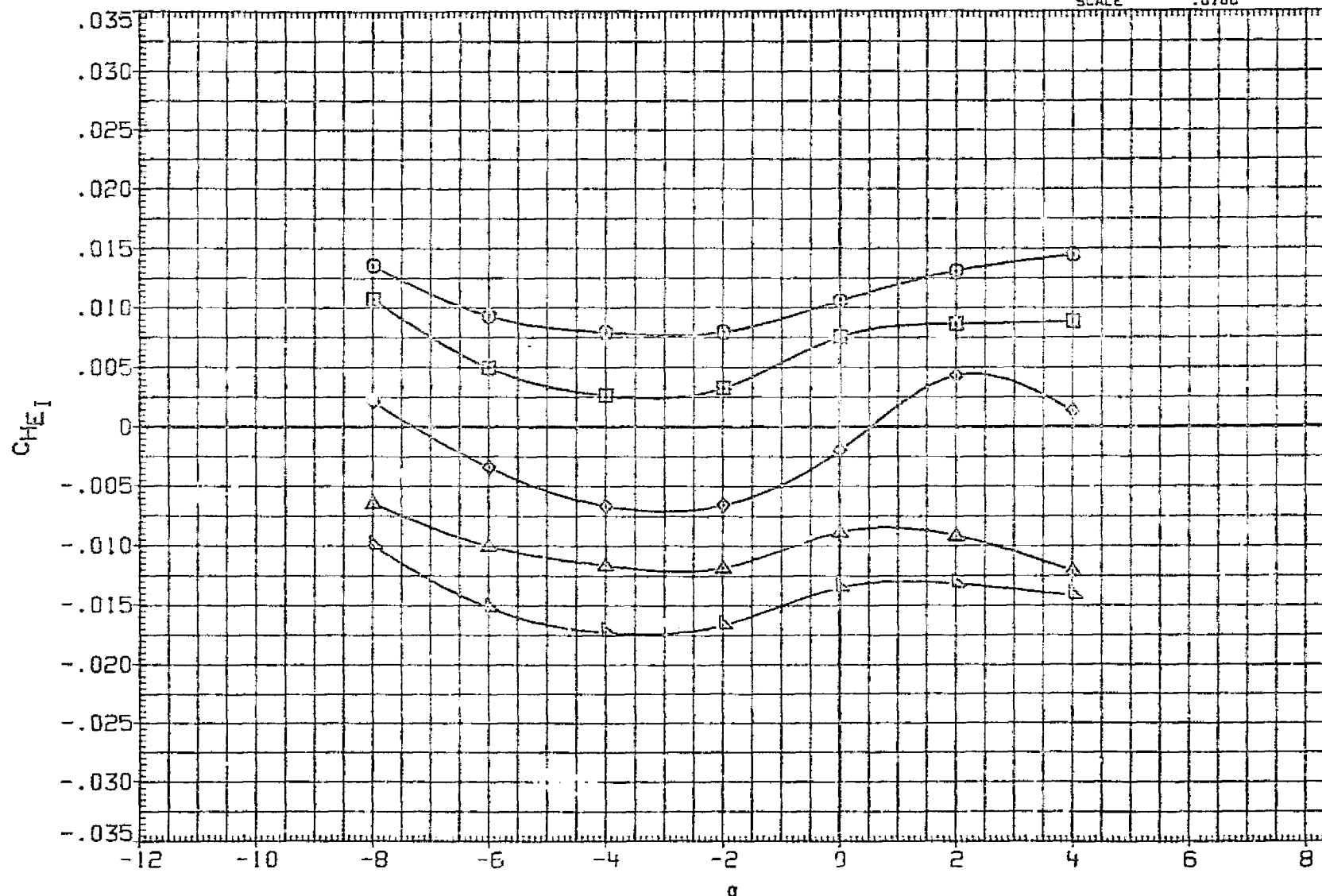


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL

CONFIGURATION

MJJ857	○	LARC 8FT TPT 749 (IA93) OTSAT130
MJJ858	□	LARC 8FT TPT 749 (IA93) OTSAT130
MJJ859	◇	LARC 8FT TPT 749 (IA93) OTSAT130
MJJ861	△	LARC 8FT TPT 749 (IA93) OTSAT130
MJJ862	▽	LARC 8FT TPT 749 (IA93) OTSAT130

BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0
-6.000	8.000	9.000	8.000	9.000
-4.000	8.000	9.000	8.000	9.000
.000	8.000	9.000	8.000	9.000
4.000	8.000	9.000	8.000	9.000
6.000	8.000	9.000	8.000	9.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

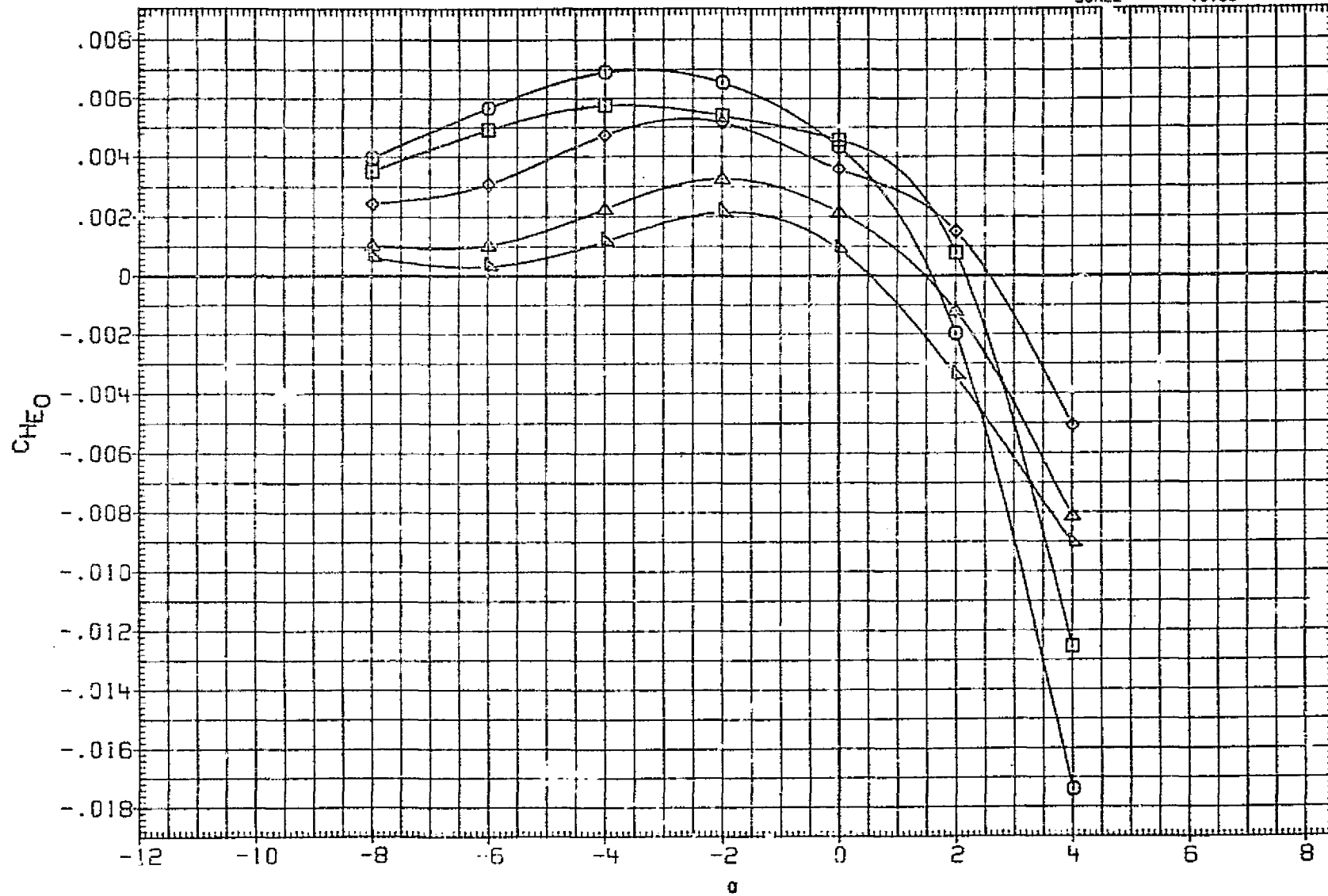


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(B) MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

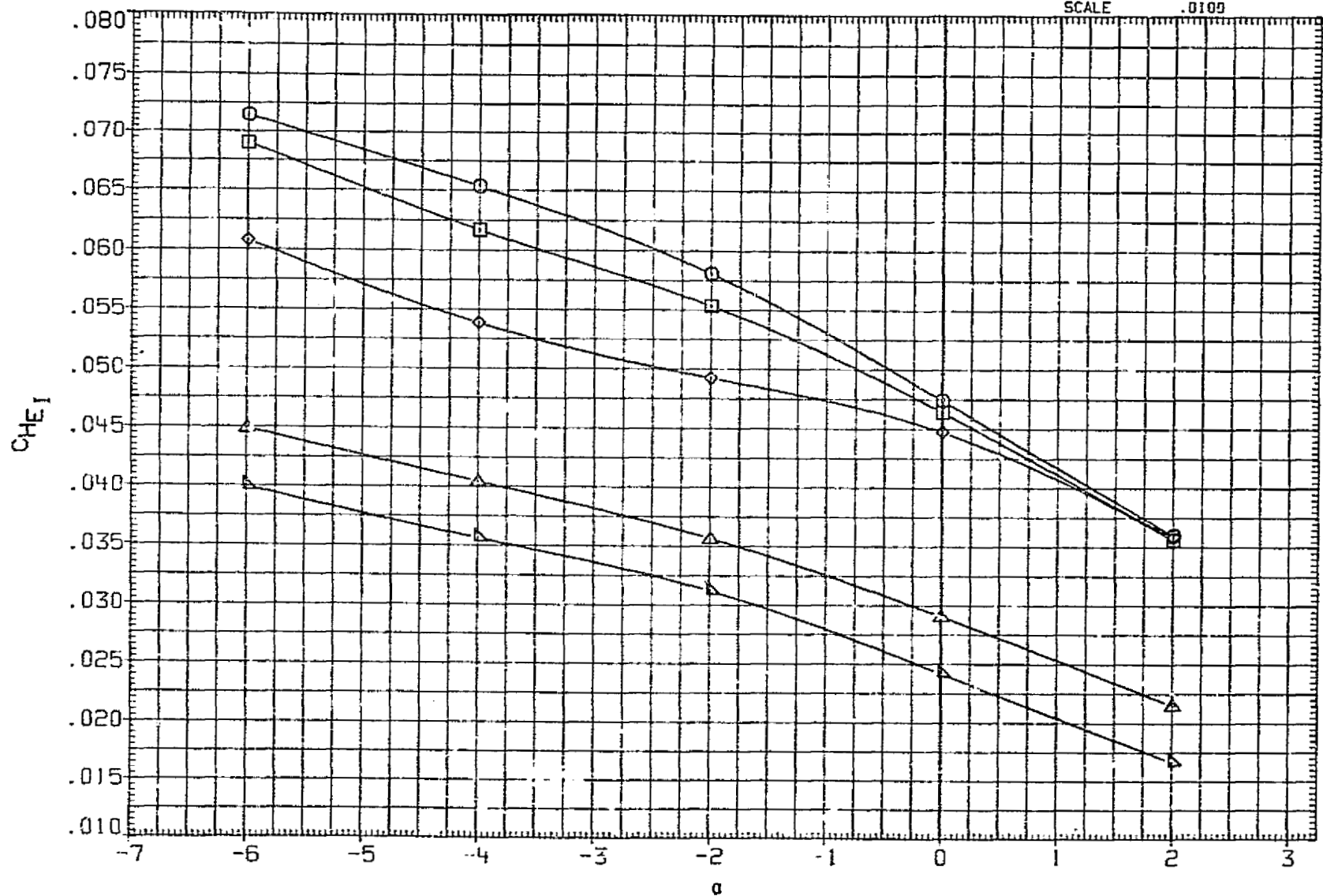


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	LARC 8FT TPT 749 (IA93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50. FT.
MJJB58	LARC 8FT TPT 749 (IA93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	LARC 8FT TPT 749 (IA93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	LARC 8FT TPT 749 (IA93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	976.0000	IN. XT
MJJB62	LARC 8FT TPT 749 (IA93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
							ZMPP	400.0000	IN. ZT
							SCALE	.0100	

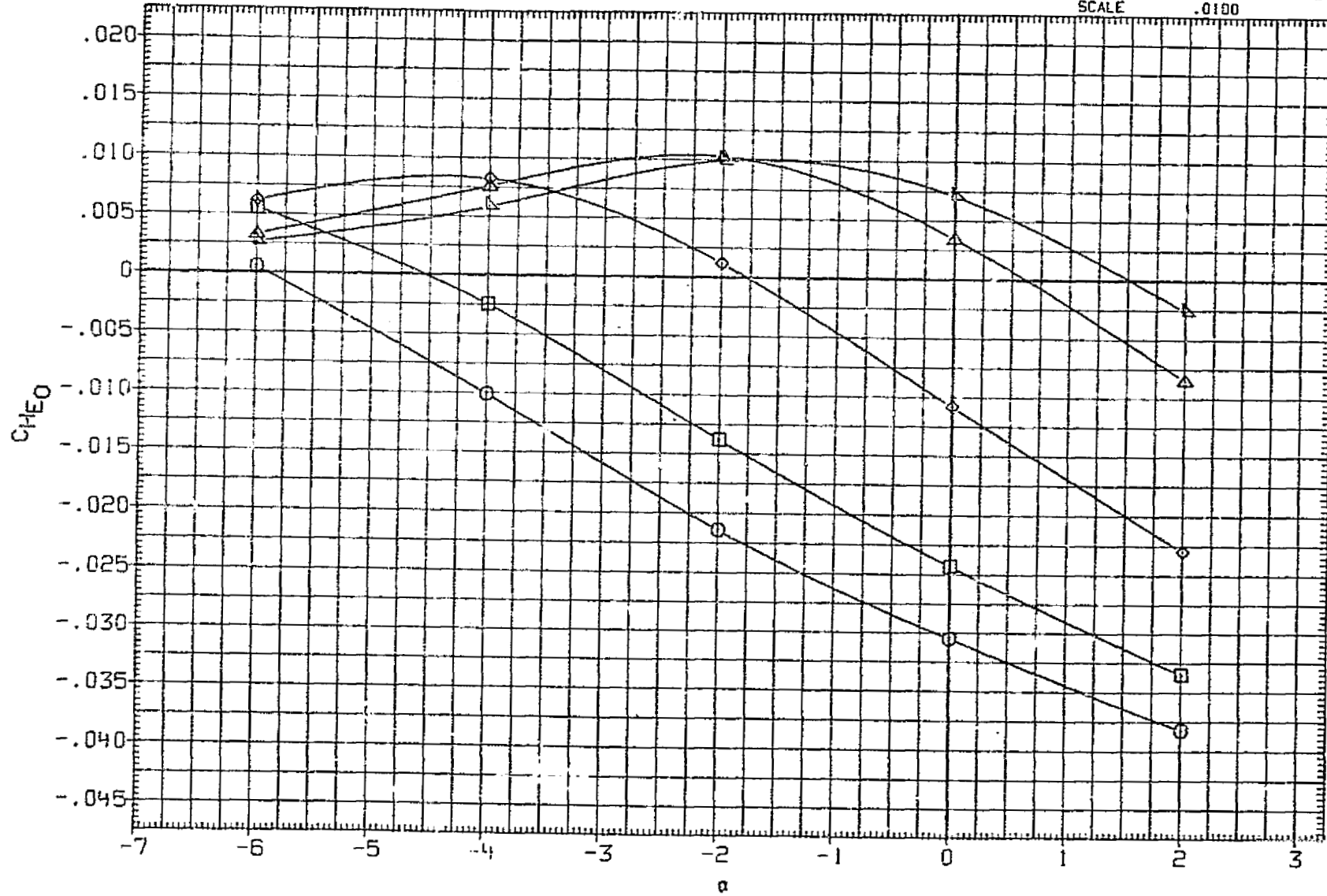


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(C)MACH = 1.15

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-LI	ELV-LO	ELV-RI	ELV-RO	REFERENCE INFORMATION		
MJJB57	○	LARC 8FT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	50.FT.
MJJB58	□	LARC 8FT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJB59	◇	LARC 8FT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJB61	△	LARC 8FT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMRP	975.0000	IN. XT
MJJB62	▽	LARC 8FT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

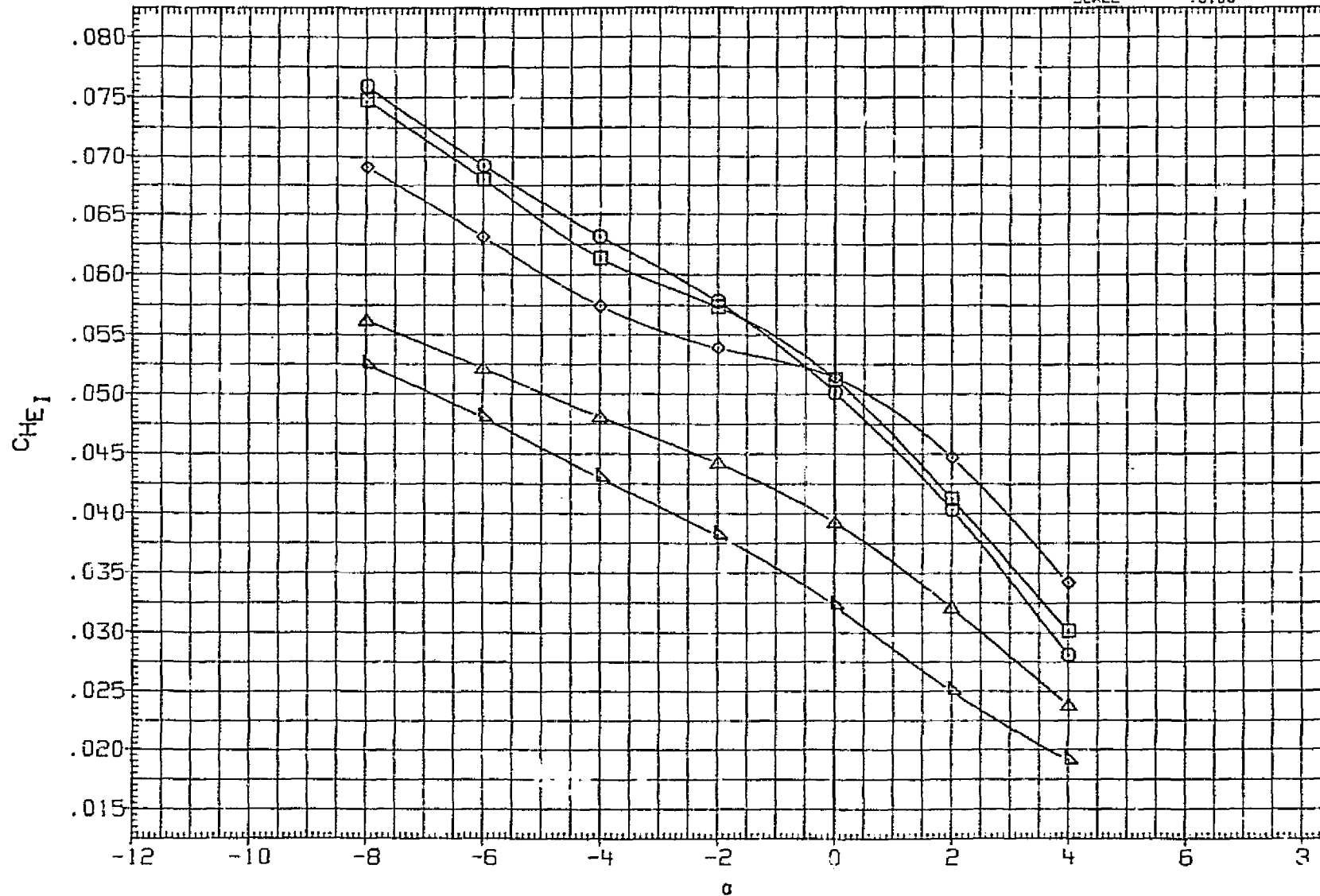


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-L1	ELV-L0	ELV-R1	ELV-R0	REFERENCE INFORMATION		
MJJ857	○	LARC BFT TPT 749 (1A93) OTSAT130	-6.000	8.000	9.000	8.000	9.000	SREF	2690.0000	SQ.FT.
MJJ858	□	LARC BFT TPT 749 (1A93) OTSAT130	-4.000	8.000	9.000	8.000	9.000	LREF	1290.3000	INCHES
MJJ859	◇	LARC BFT TPT 749 (1A93) OTSAT130	.000	8.000	9.000	8.000	9.000	BREF	1290.3000	INCHES
MJJ861	△	LARC BFT TPT 749 (1A93) OTSAT130	4.000	8.000	9.000	8.000	9.000	XMPP	975.0000	IN. XT
MJJ862	▽	LARC BFT TPT 749 (1A93) OTSAT130	6.000	8.000	9.000	8.000	9.000	YMPP	.0000	IN. YT
								ZMPP	400.0000	IN. ZT
								SCALE	.0100	

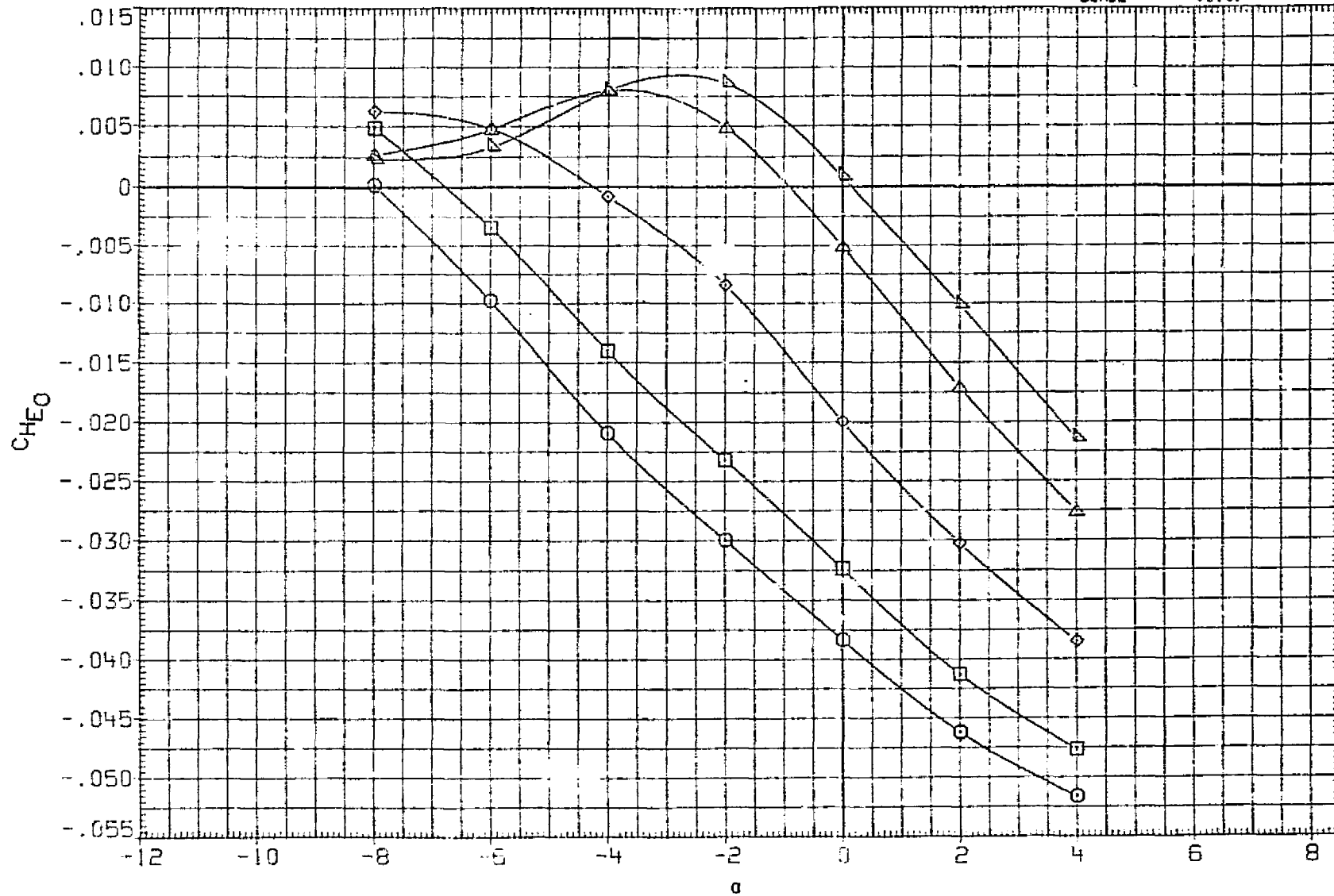


FIG. 7 LEFT ELEVON SEGMENT DEFLECTIONS CORRECTED FOR APPLIED LOAD

(D)MACH = 1.20