

QC
Auro
C-105
P/AD/56

QC X
Auro
CF105
P-AD-56

(22)

FILE IN VAULT

C-105

P/Aero Data/56

UNCLASSIFIED

LATERAL STABILITY DERIVATIVES

WING NOTCHED AND EXTENDED

ANALYZED

CROSS-PLOTS

April 1955

ANALYZED



National Research Council
Canada

Conseil national de recherches
Canada

C.I.S.T.I.

I.C.I.S.I.

Aeronautical and

Bibliothèque

Mechanical

d'aéronautique

Engineering Library

et de génie mécanique

10
A

DATE

Report no.: QCX - AVRO - CF105 - P-AD-56

has been ☐ downgraded to: _____

☒ de-classified

by (Name): Michel W. Drapeau

(Dept.): A/DND Coordinator, Access to Information

Date: Dec. 7, 1992

R. Auger
Signature



45122

12422555



UNCLASSIFIED

A. V. ROE CANADA LIMITED
MALTON - ONTARIO

TECHNICAL DEPARTMENT (Aircraft)

AIRCRAFT:

REPORT NO. P/AERO DATA/56

FILE NO:

NO OF SHEETS: _____

TITLE:

C-105

LATERAL STABILITY DERIVATIVES

WING NOTCHED AND EXTENDED

CROSS-PLOTS

Classification ~~cancelled~~ ^{confirmed as} changed to: UNCLASSIFIED

By authority of: DEDA 7/DARFT 5-8/DAS Eng 6-4-5

Date: 5 Nov 1992

Signature: B. Aubrey

Unit / Rank / Appointment: ISIS 3, Secretary CRAD HQ DRP

PREPARED BY

DATE April 1955

CHECKED BY

DATE

SUPERVISED BY

DATE

APPROVED BY

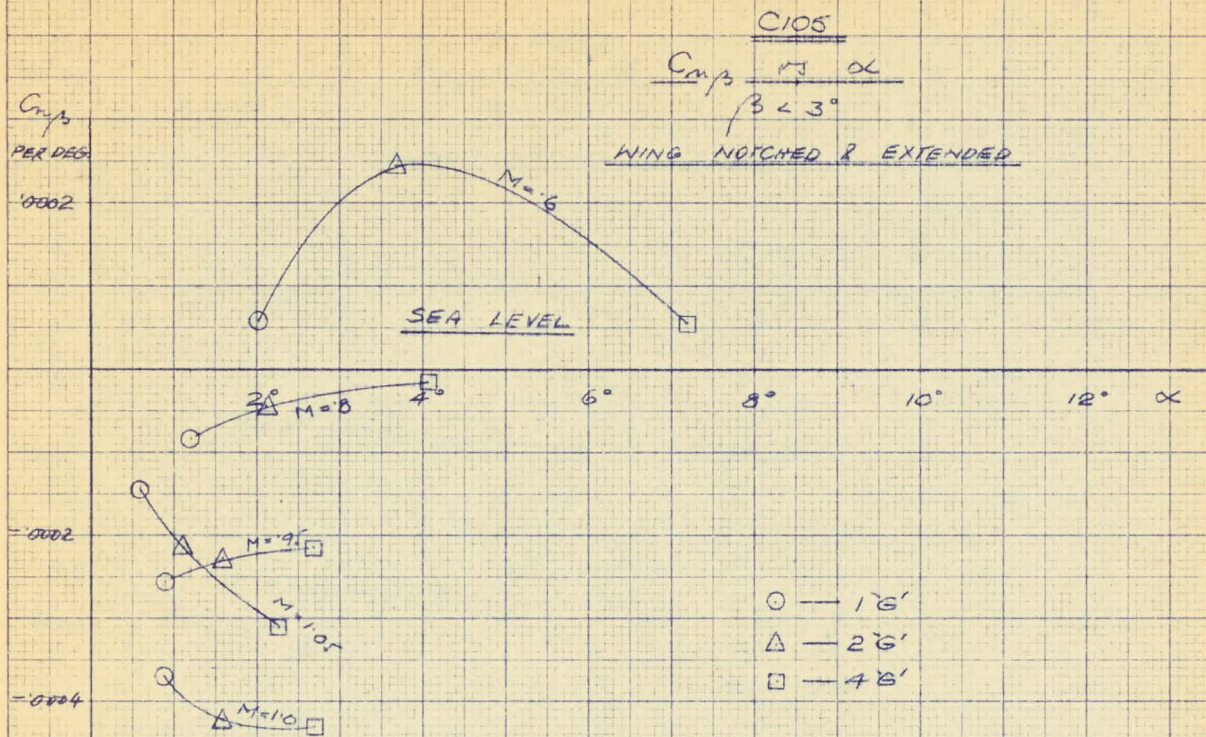
DATE

ISSUE NO	REVISION NO.	REVISED BY	APPROVED BY	DATE	REMARKS

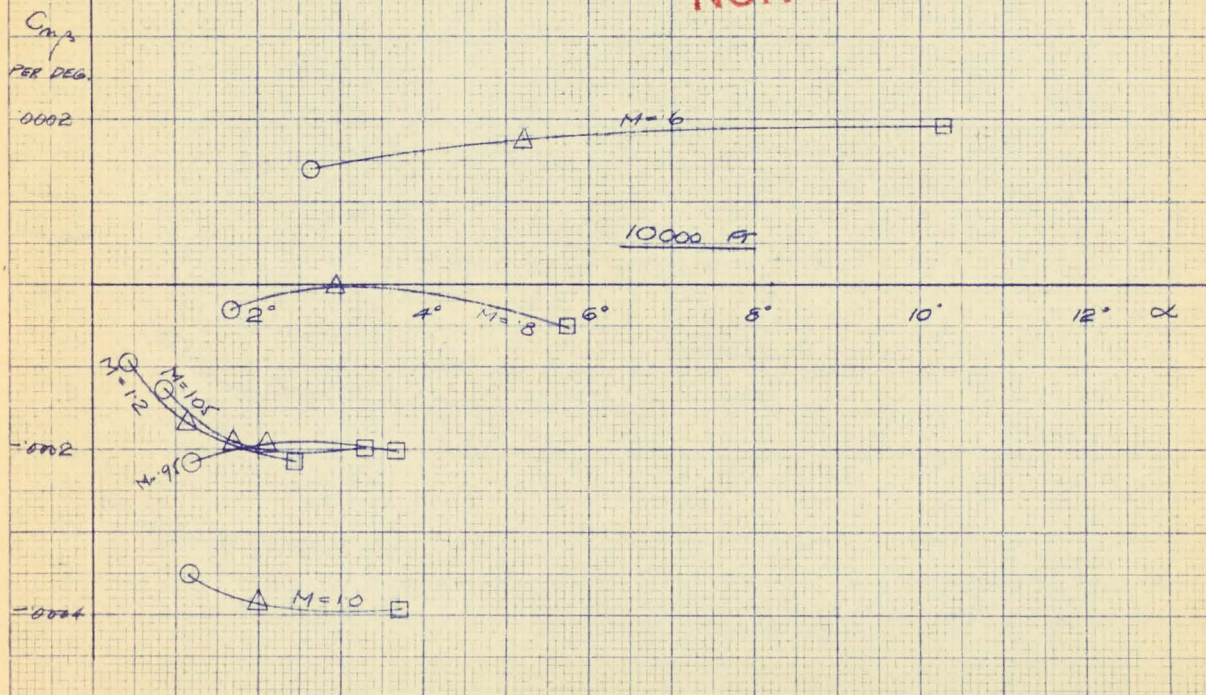
1111

P/S TAB 175 2.43

Apr 1/67 Kuehler



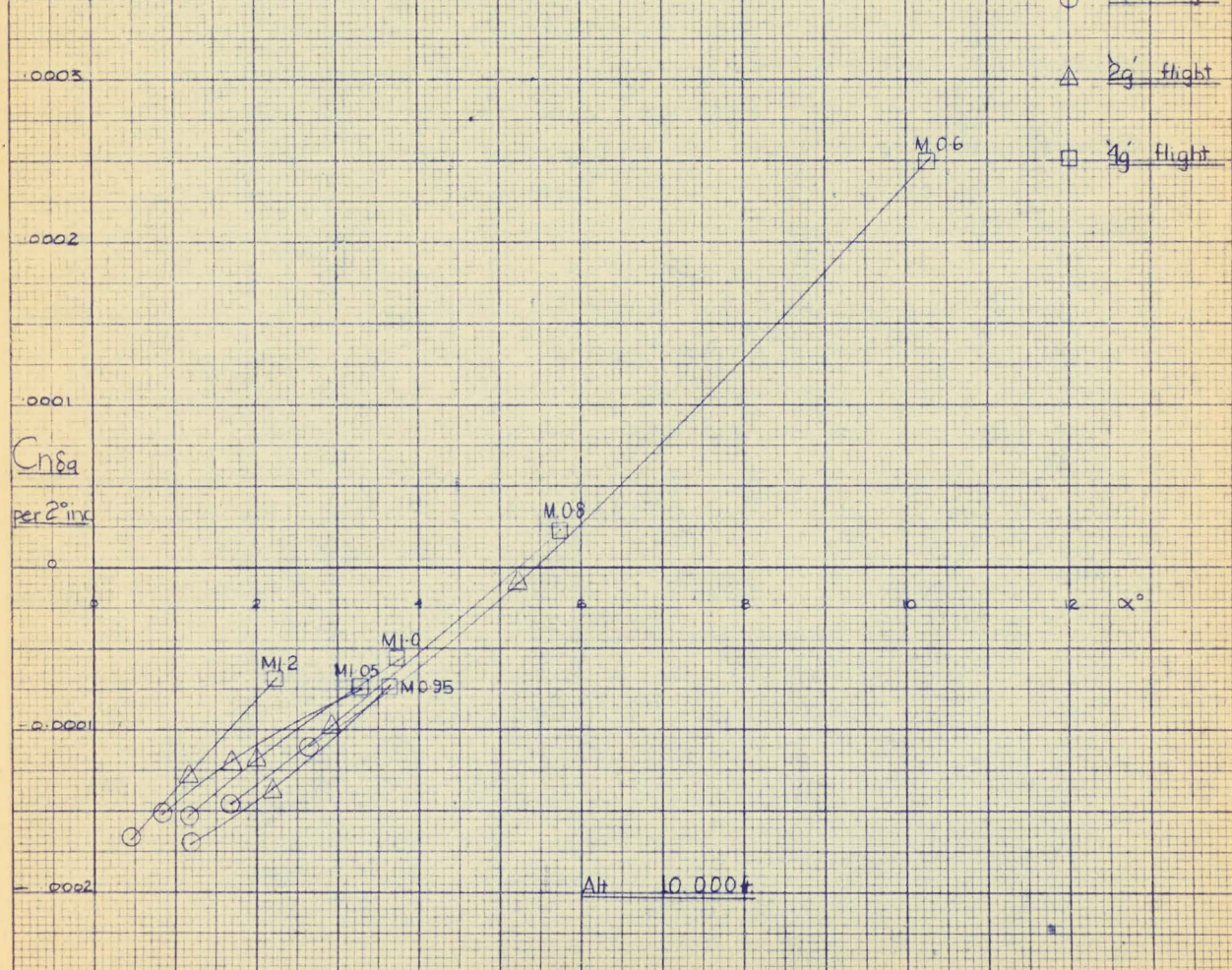
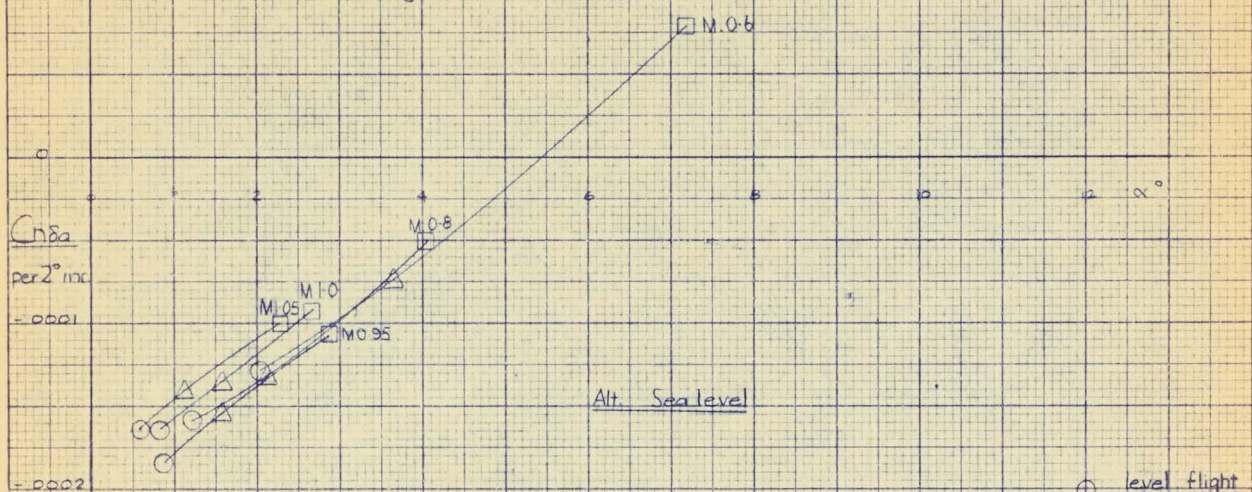
NON CLASSIFIED



C-105
Cnδa vs α
Elastic

UNCLASSIFIED
NON CLASSIFIE

Wing Notched and Extended



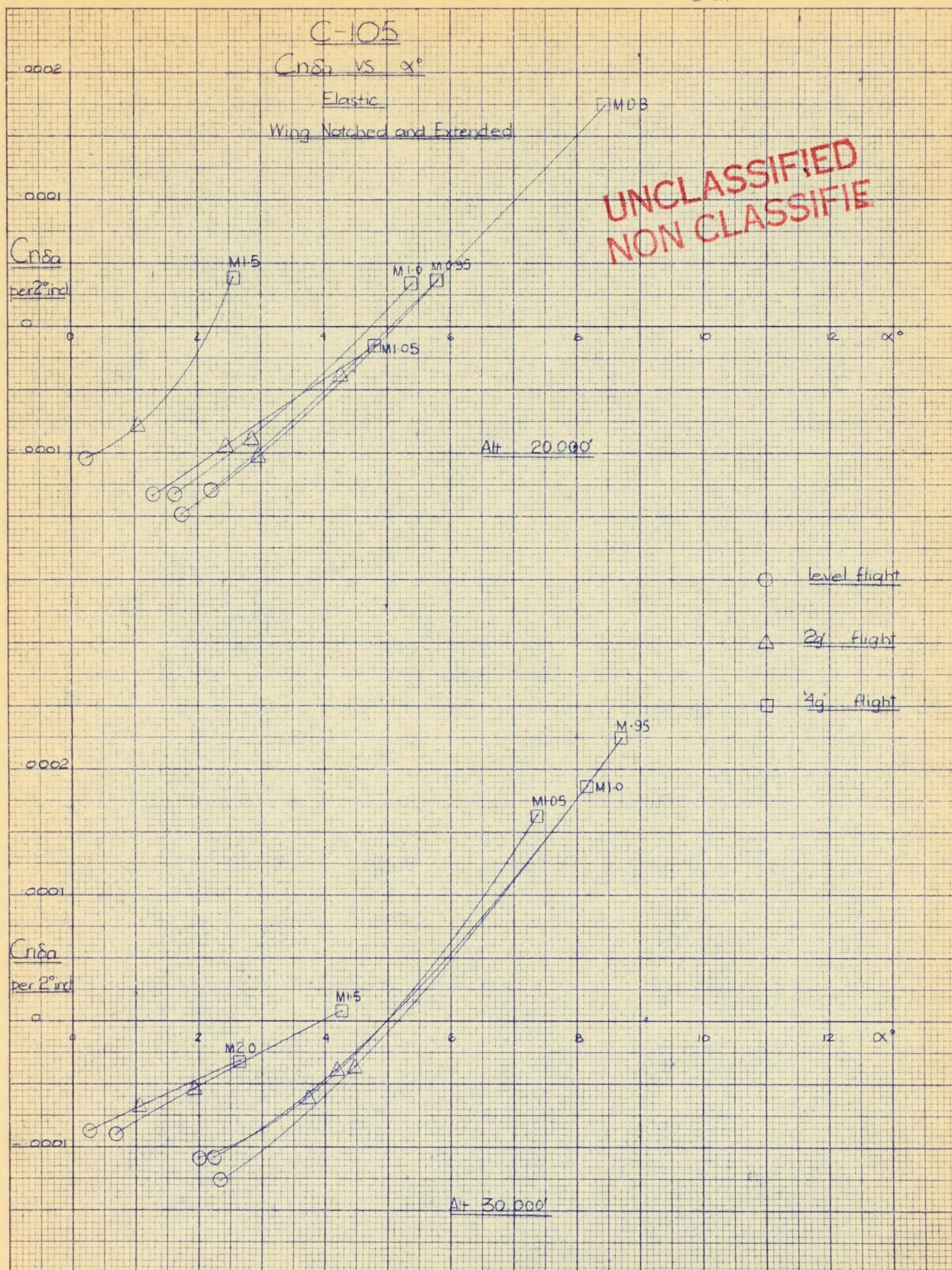
P/A0/56

P/Stat/75

2.1.2

C-105

6-17



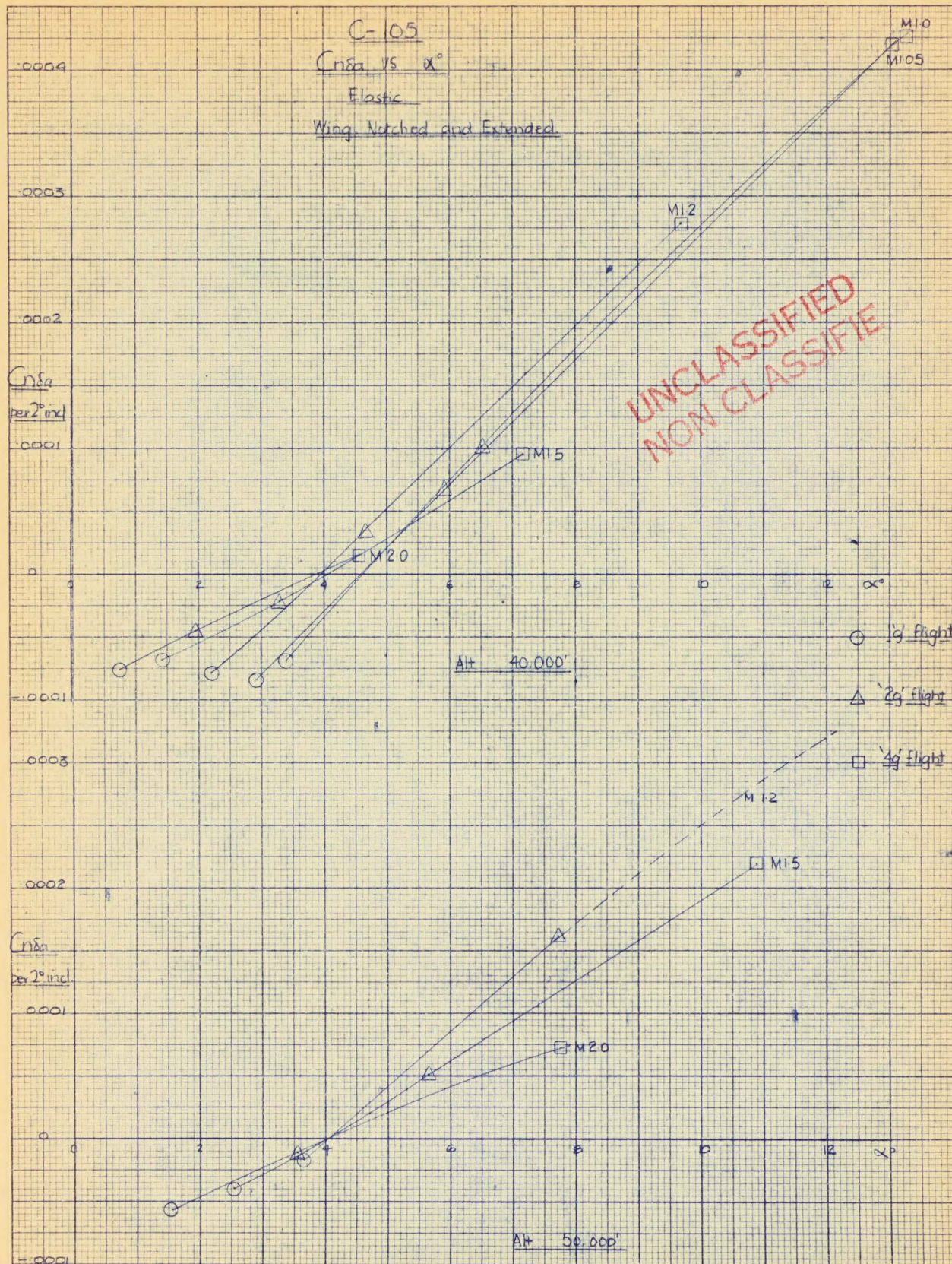
P140156

Altitude 75

CASH

2.1.3
618

C-105
Cn_{sa} vs α°
Elastic
Wing Notched and Extended



P/AD/56

3.1

P/Study/70

288.

Apr. '55.

C-105

 $C_{N_{YE}}$ VS INCIDENCE $C_{N_{YE}}$
PER RADIAN $|\beta| < 2^\circ$

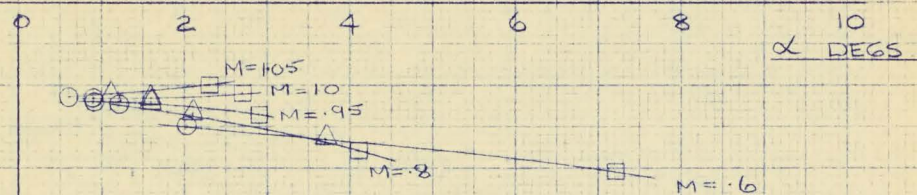
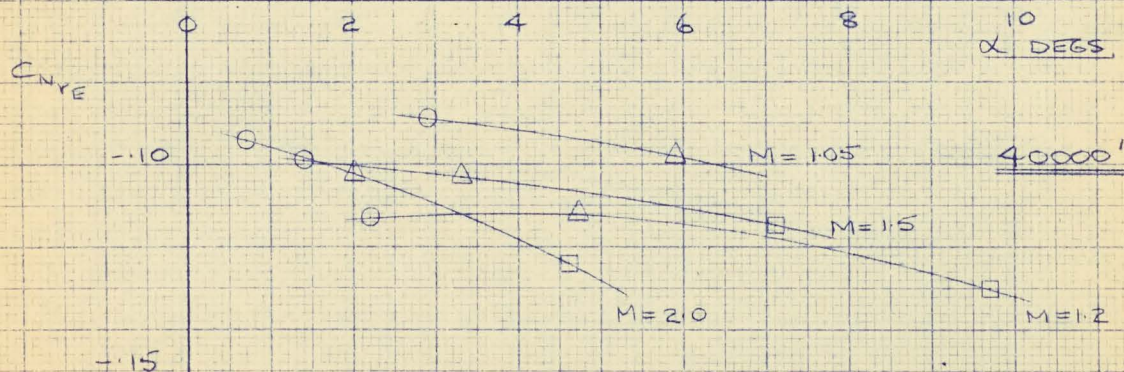
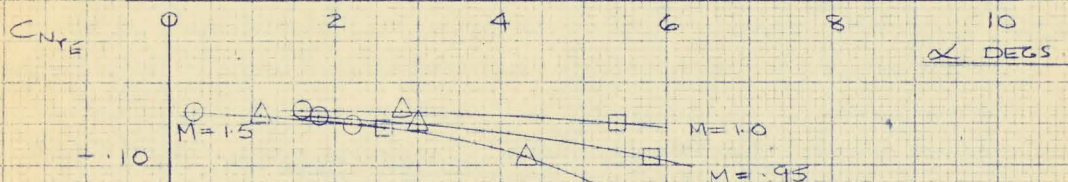
NOTCHED & EXTENDED WING

- $\circ$ $n = 1$
 $\triangle$ $n = 2$
 $\square$ $n = 4$

-0.05

-0.10

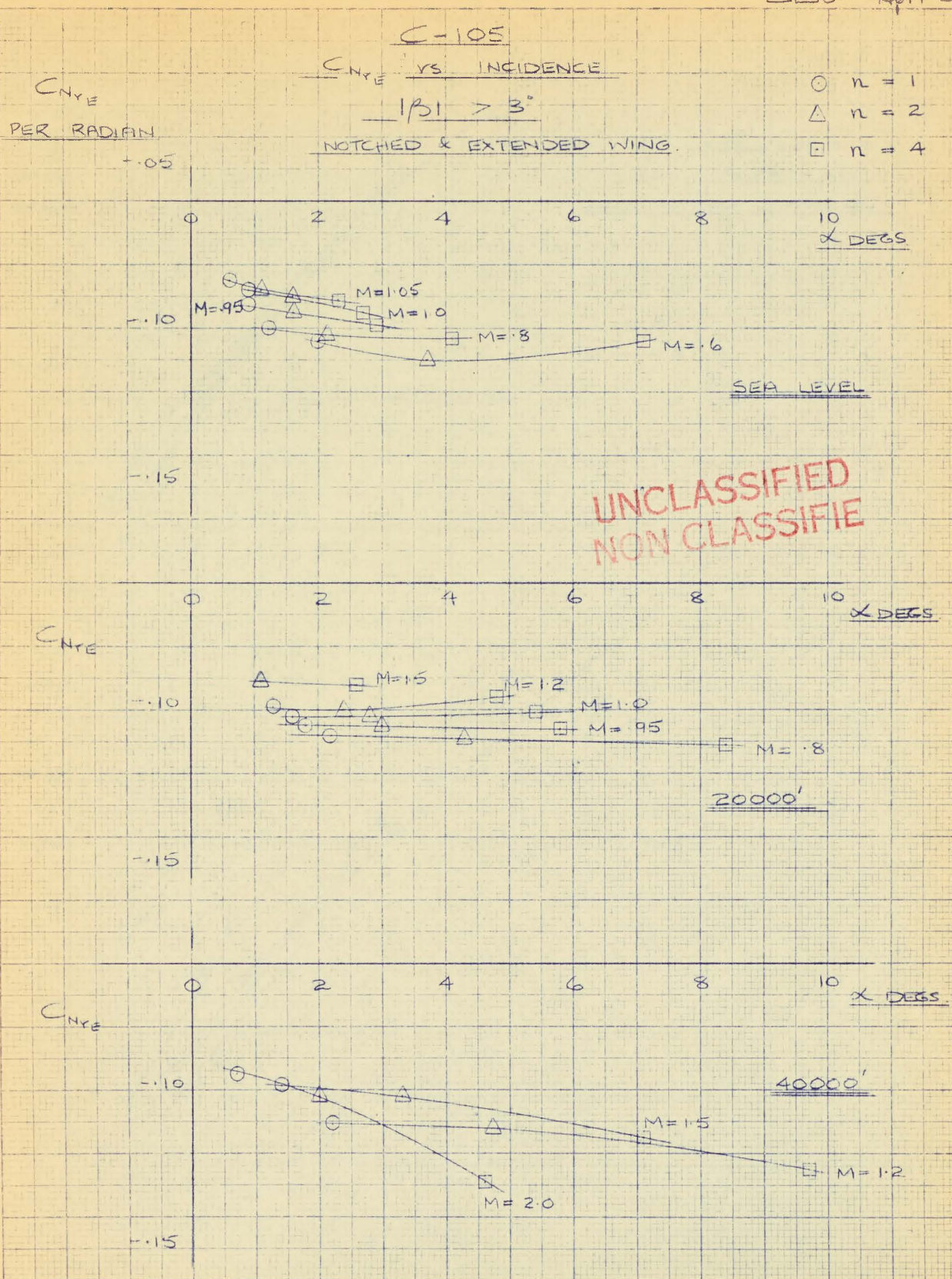
-0.15

UNCLASSIFIED
NON CLASSIFIED

8/10/56

P/Stab/70 3.2

8000 Apr '55

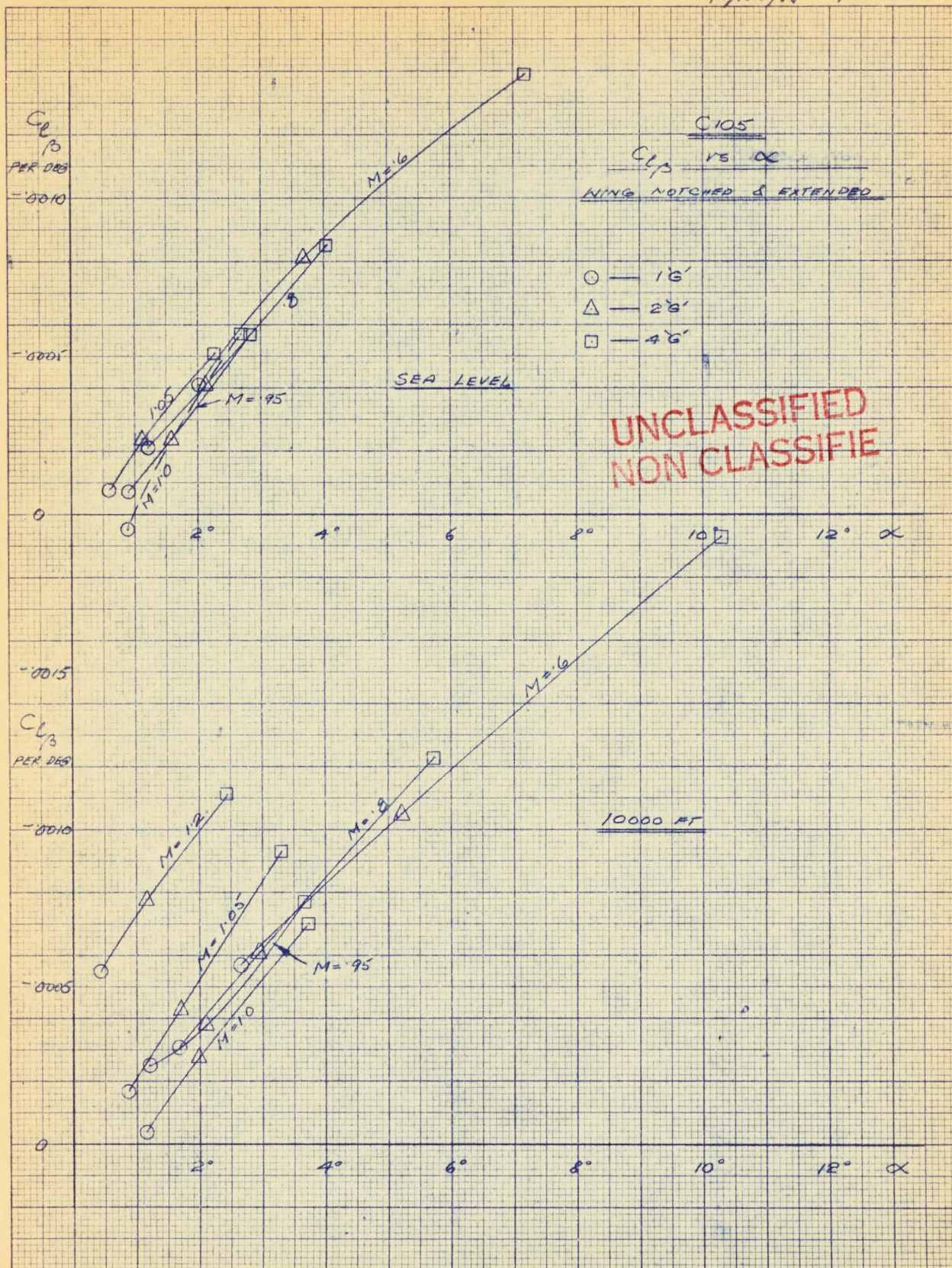


P/A0156

4.1.1

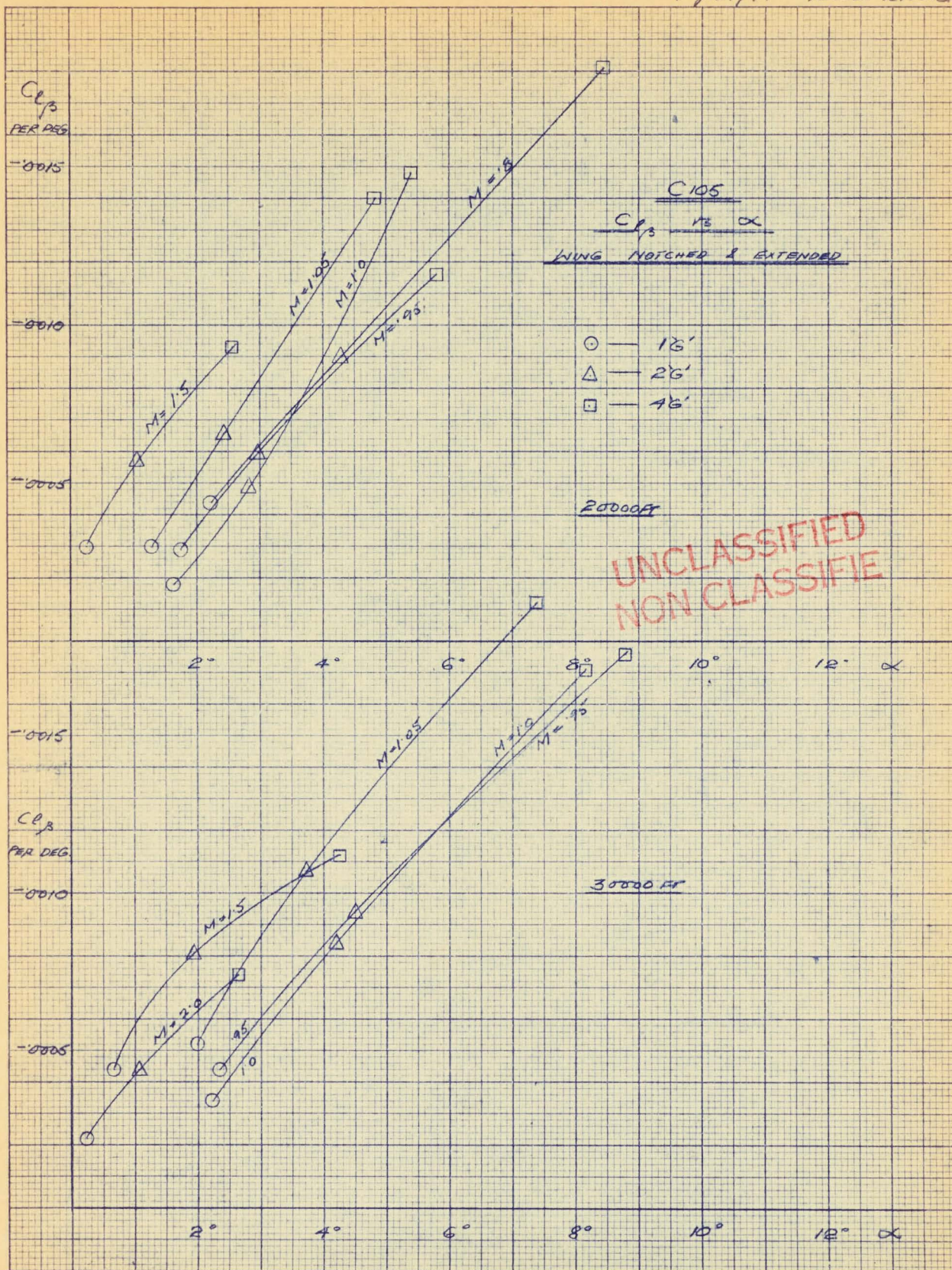
P/STAB/X 515

April/15 Kunathond



P/AD/56

4.1.2.

P/AD/56 5.16.
April/57 Kuntzhausen

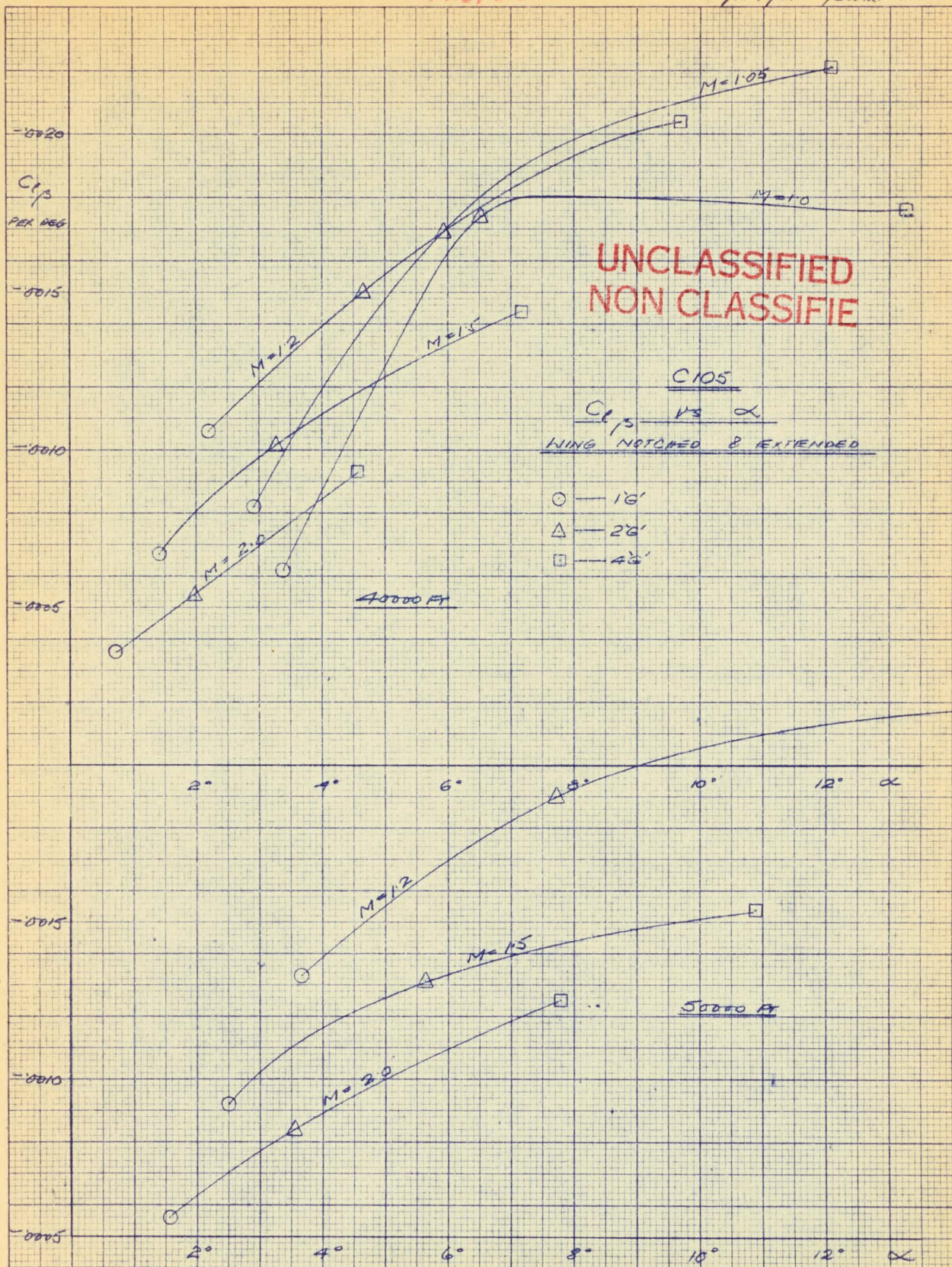
P/AD/56

4.1.3

P/SEAB/76

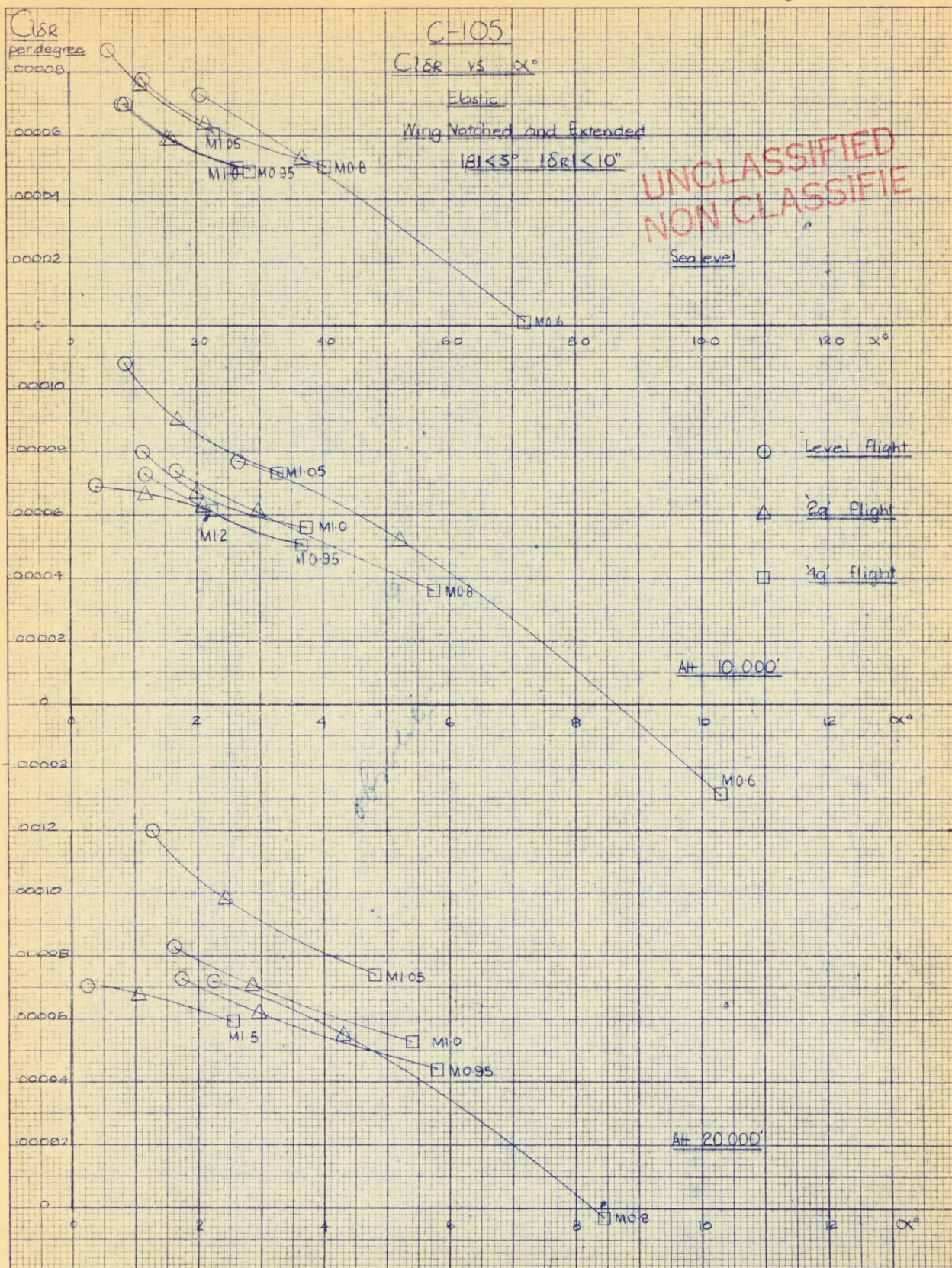
5.1.1

April/55 Kunathowski



P1AD/56

P1Slab/75 5.1.1.
GSH 418



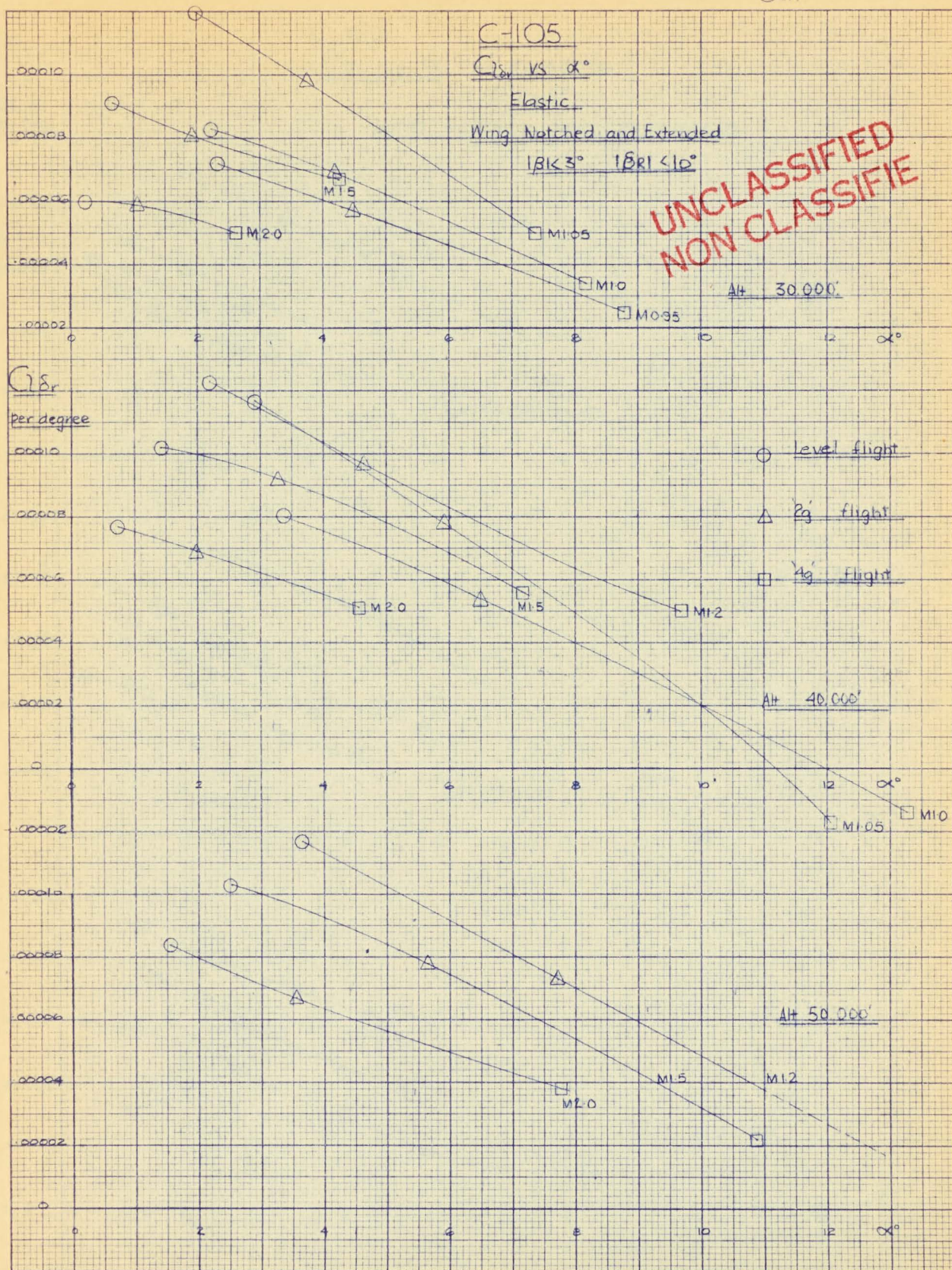
P/A0156

P/Stat 175

5.1.2

GNH

4.10



P/A0156

5.2.1

4.15

P/STH3/75

April 1955

J. Papiris.

C105

 $C_{L\alpha}$ vs α° - ELASTIC. $1/\beta > 3^\circ$ WING NOTCHED AND EXTENDED. $C_{L\alpha}$ E
PER DEG.

-0.00008

-0.00006

-0.00004

-0.00002

0

2

4

6

8

10

12

 α° AT SEA LEVELUNCLASSIFIED
NOT CLASSIFIED

-0.00008

-0.00006

-0.00004

-0.00002

0

2

4

6

8

10

12

 α° AT 10,000'

M=6

-0.00008

-0.00006

-0.00004

-0.00002

0

2

4

6

8

10

12

 α° AT 20,000'

○ LEVEL FLIGHT

△ 2" G" FLIGHT

□ 4" G" FLIGHT

M=1.05

M=1.0

M=0.95

M=0.9

M=0.8

M=0.7

M=0.6

M=0.5

M=0.4

M=0.3

M=0.2

M=0.1

M=0.05

M=0.02

M=0.01

M=0.005

M=0.002

M=0.001

M=0.0005

M=0.0002

M=0.0001

M=0.00005

M=0.00002

M=0.00001

P140156

5.2.2

416

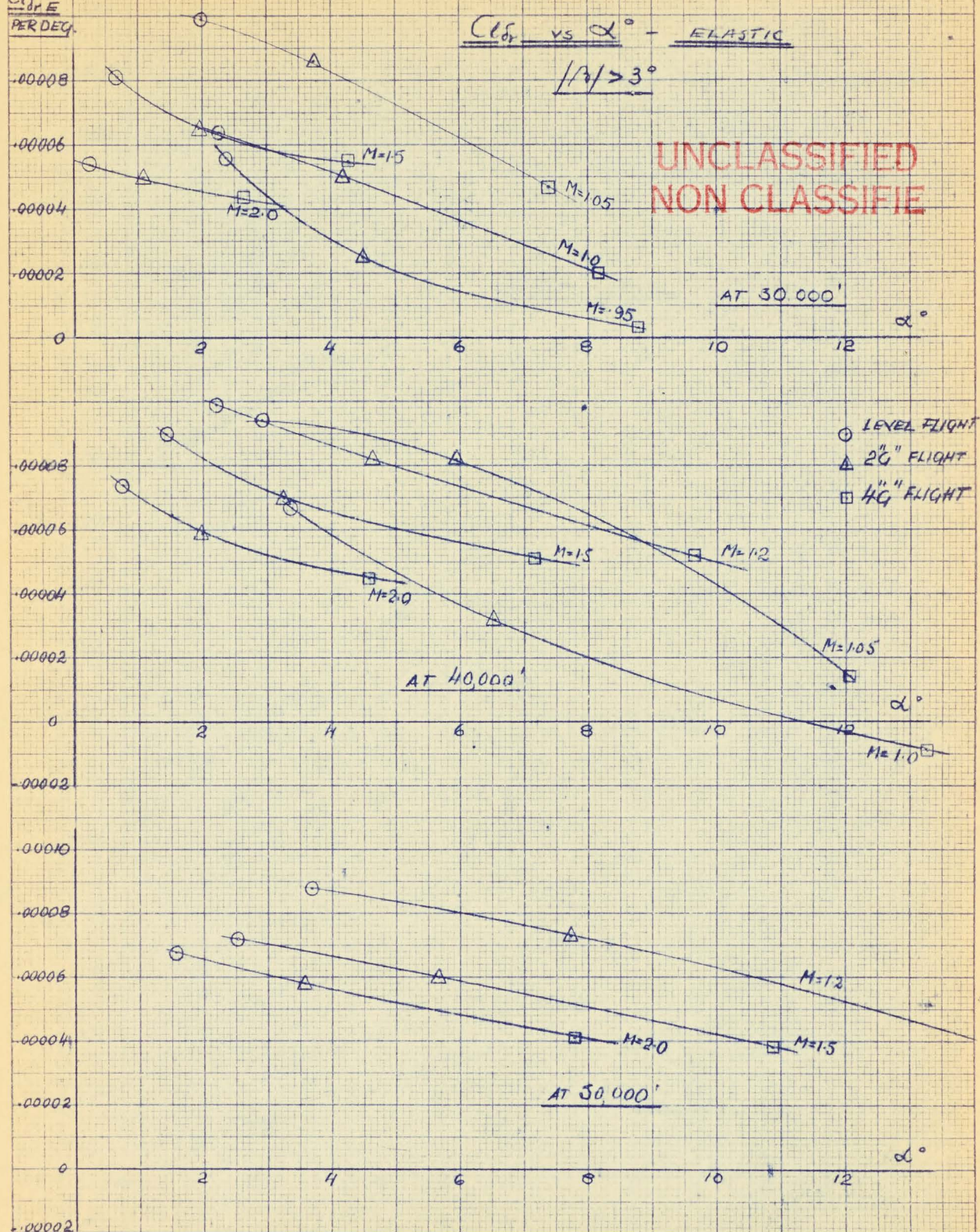
DISTANCE

April 1955

J. Papas

C105

WING NOTCHED AND EXTENDED

 $C_{L/E}$
PER DEG. $C_{L/E}$ vs α° - ELASTIC $1/2 > 3^\circ$ UNCLASSIFIED
NON CLASSIFIED

11/10/56

P/Slate 170 6122100
15258. Apr. 55.

C_{ly} PER RADIAN
0.04

$C-105$

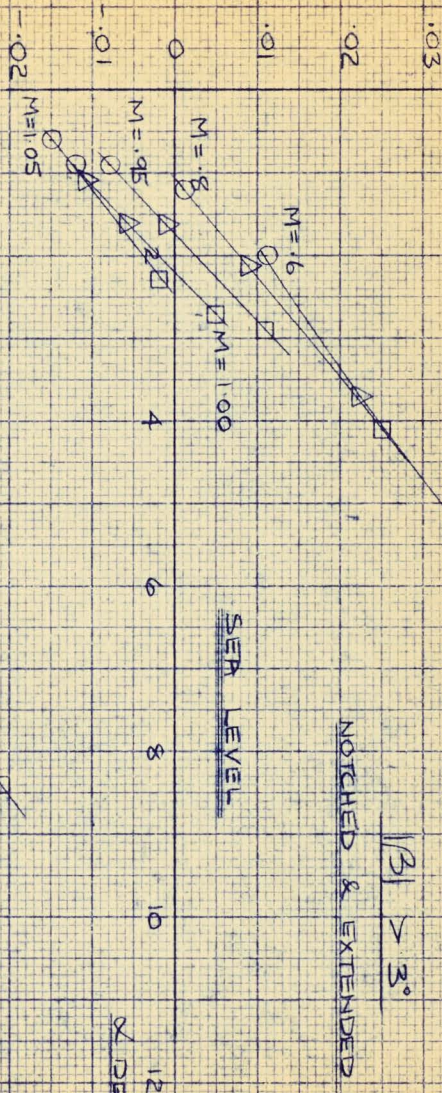
C_{ly} IS INCIDENCE

$|\beta| > 3^\circ$

NOTCHED & EXTENDED WING

SEA LEVEL

α DEGS.



UNCLASSIFIED
NON CLASSIFIE

α n=1
 Δ n=2
 $\square$ n=4

20000'

α DEGS.

M=1.5 M=1.2

40000'



