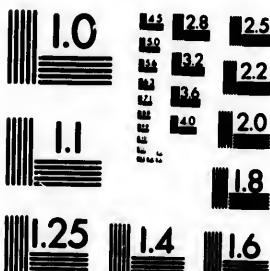


IMAGE EVALUATION TEST TARGET (MT-3)



6"



Photographic
Sciences
Corporation

23 WEST MAIN STREET
WELLSVILLE, N.Y. 14580
(716) 872-4503

2
EEEEE
23
22
21
20
19
18
17
16
15
CIHM/ICMH
Microfiche
Series.

CIHM/ICMH
Collection de
microfiches.



Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques

© 1983

Technical and Bibliographic Notes/Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

- Coloured covers/
Couverture de couleur
- Covers damaged/
Couverture endommagée
- Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée
- Cover title missing/
Le titre de couverture manque
- Coloured maps/
Cartes géographiques en couleur
- Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)
- Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur
- Bound with other material/
Relié avec d'autres documents
- Tight binding may cause shadows or distortion
along interior margin/
La reliure serrée peut causer de l'ombre ou de la
distortion le long de la marge intérieure
- Blank leaves added during restoration may
appear within the text. Whenever possible, these
have been omitted from filming/
Il se peut que certaines pages blanches ajoutées
lors d'une restauration apparaissent dans le texte,
mais, lorsque cela était possible, ces pages n'ont
pas été filmées.
- Additional comments:/
Commentaires supplémentaires:

L'Institut a microfilmé le meilleur exemplaire
qu'il lui a été possible de se procurer. Les détails
de cet exemplaire qui sont peut-être uniques du
point de vue bibliographique, qui peuvent modifier
une image reproduite, ou qui peuvent exiger une
modification dans la méthode normale de filmage
sont indiqués ci-dessous.

- Coloured pages/
Pages de couleur
- Pages damaged/
Pages endommagées
- Pages restored and/or laminated/
Pages restaurées et/ou pelliculées
- Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées
- Pages detached/
Pages détachées
- Showthrough/
Transparence
- Quality of print varies/
Qualité inégale de l'impression
- Includes supplementary material/
Comprend du matériel supplémentaire
- Only edition available/
Seule édition disponible
- Pages wholly or partially obscured by errata
slips, tissues, etc., have been refilmed to
ensure the best possible image/
Les pages totalement ou partiellement
obscures par un feuillet d'erreurs, une pelure,
etc., ont été filmées à nouveau de façon à
obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	14X	18X	22X	26X	30X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12X 16X 20X 24X 28X 32X

details
du
modifier
une
image

The copy filmed here has been reproduced thanks to the generosity of:

Library Division
Provincial Archives of British Columbia

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shall contain the symbol → (meaning "CONTINUED"), or the symbol ▽ (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:

L'exemplaire filmé fut reproduit grâce à la générosité de:

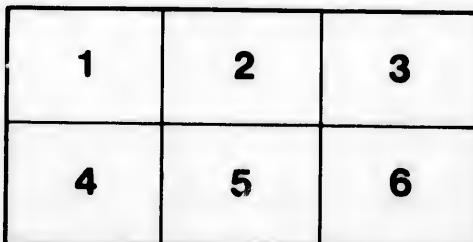
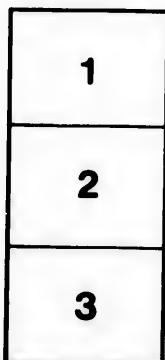
Library Division
Provincial Archives of British Columbia

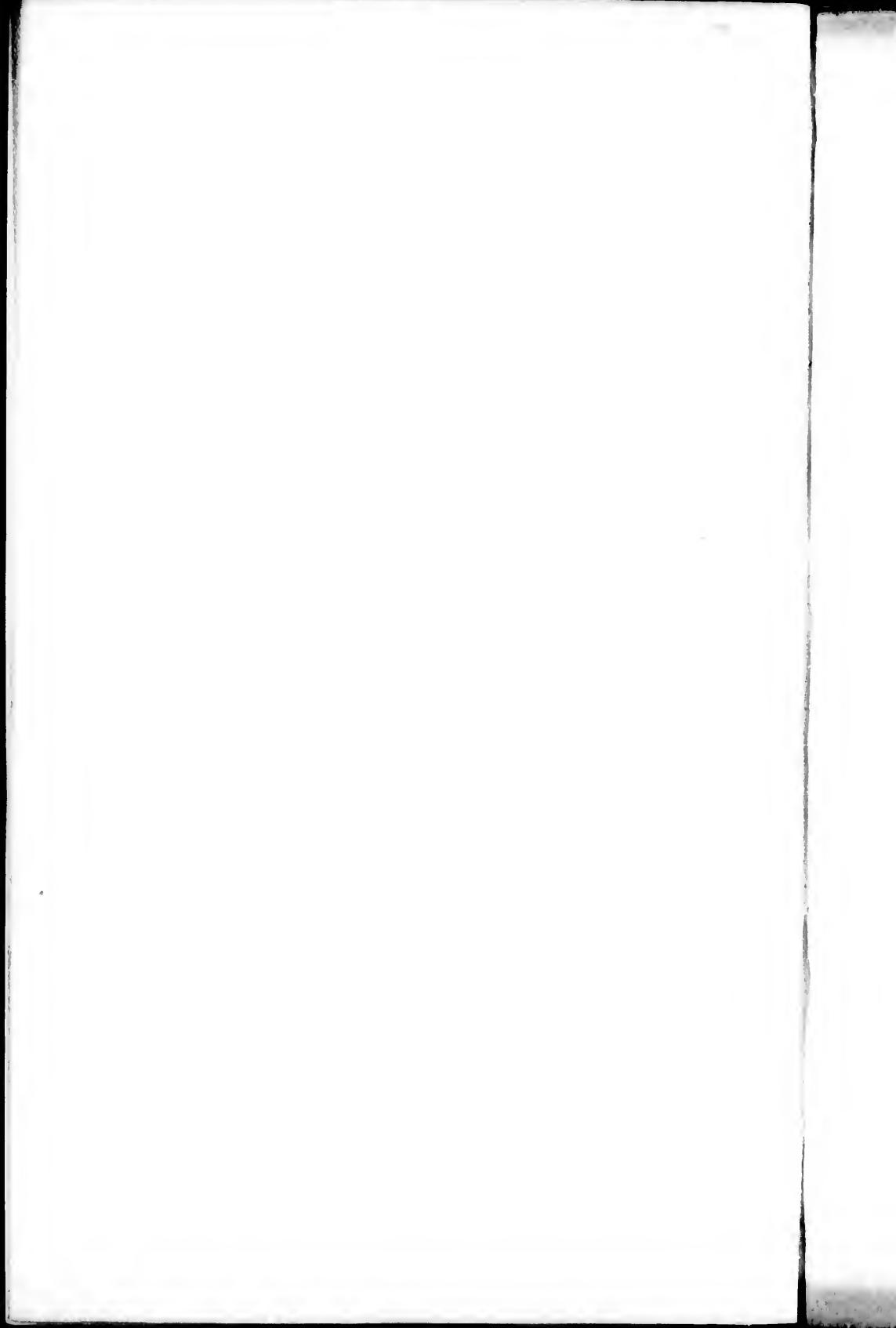
Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivants apparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole → signifie "A SUIVRE", le symbole ▽ signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.





PLATES

TO

ALEXANDER DE HUMBOLDT'S

POLITICAL ESSAY

ON

THE KINGDOM

OF

NEW SPAIN.

LONDON.

PRINTED FOR LONGMAN, HURST, REES, ORME, AND BROWN; AND
H. COLBURN: AND W. BLACKWOOD, AND BROWN AND CROMBIE,
EDINBURGH.

1811.

160

972.7

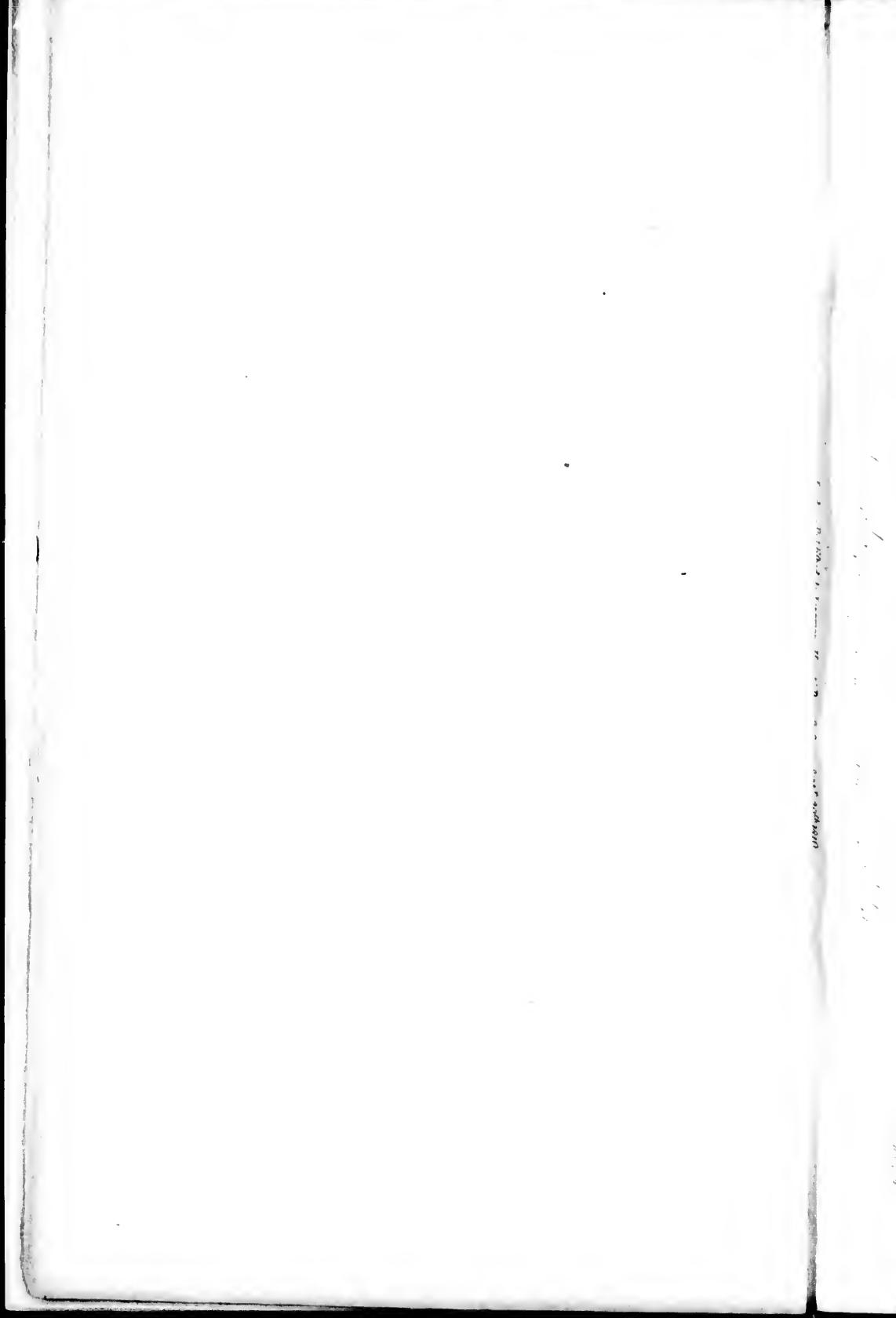
H919P

v.5

T. Davison, Lombard street,
Whitefriars, London.

CONTENTS.

1. *Peak of Orizaba.*
2. *Volcanos of La Puebla.*
3. *Plan of the Port of Acapulco.*
4. *Map of the Valley of Mexico.*
5. *Plan of the Port of Veracruz.*
6. *Section of the Western Declivity of the Table-land
of New Spain.*
7. *Ditto, Eastern Declivity, ditto.*
8. *Ditto, Central Table, ditto.*
9. *Map of New Spain.*

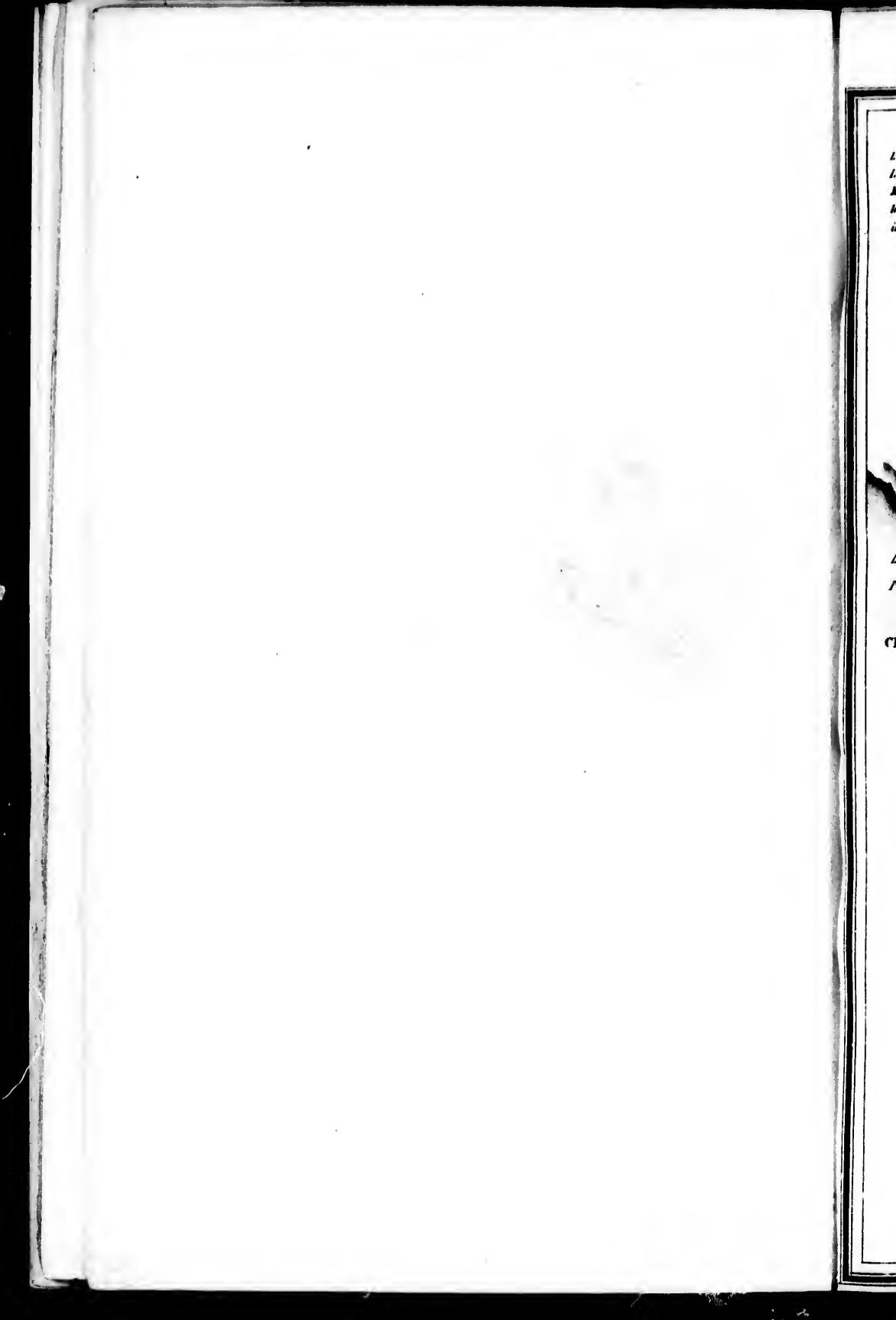




1. *Archaeopteryx* *in* *Archaeopteryx*. *Plate* *4*. - *Archaeopteryx* *in* *Archaeopteryx*.



1 - photographe à l'occasion, Montréal, 1920 (verso) — 1920



Latitude of Acapulco $18^{\circ} 36' 29'' N.$

Longitude West, from Paris in time $102^{\circ} 48' 24''$

Mean Temperature

Inclination of the Magnetic Needle /

in March 1808 new division / $48^{\circ} 2' 0''$

Intensity of the Magnetism, five

(expressed by sea oscillations when under

the Magnetic Equator) 22.1 m. in 10' of time,

Humboldt.

A. Aragonite Sand

B. Pebbles / Rocky bottom

C. Aragonite Lame / Sand and Mud

D. Aragonite Gravel

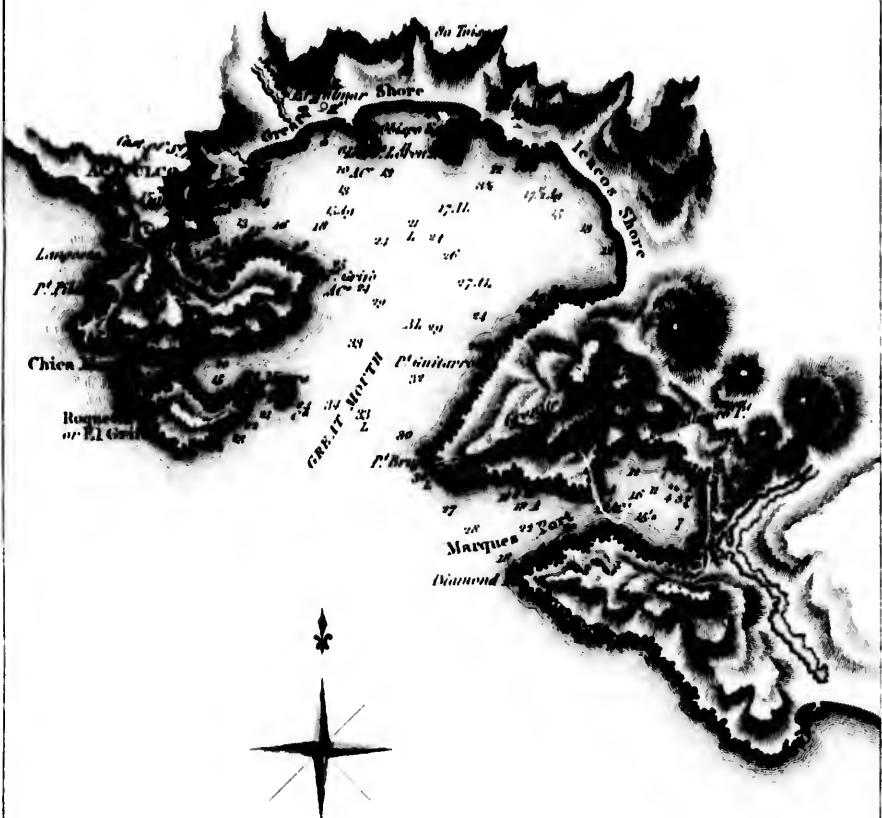
E. Lame / Mud

F. Conchula / Shells

AF. Aragonite Fango / Sand and Slime

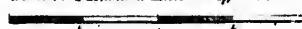
AV. Aragonite Gorgo / Sand and Gravel

The Figures denote Bathome.



**PLAN
of the
PORT
of
ACAPULCO.**

Scale of 2 Maritime Miles or 4000 Toises



*The Rio
the Rio
way to*

*Eastern I
of the I*

E

A C

B T

S P

C L

F

I

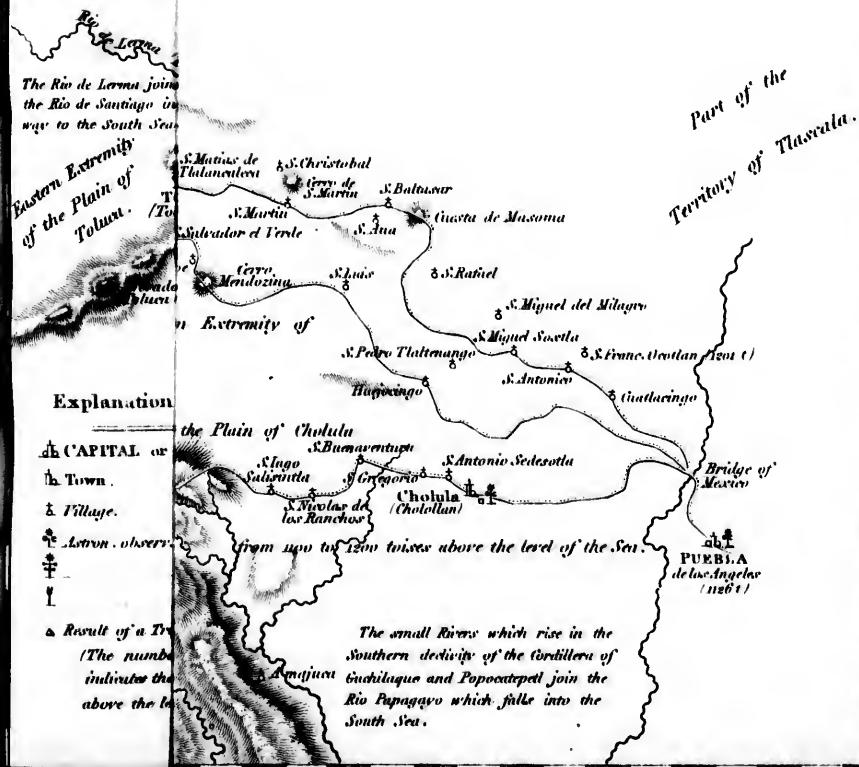
A R



MAP
Of the Valley of Mexico,
And Neighbouring Mountains
Drawn on the Spot in 1804, by Don Louis Martin.
New modelled and corrected in 1807
from the Trigonometrical operations of
Don Joaquin Vilasquez,
the Astronomical observations, and Barometrical
measurements of W. de Humboldt.
By JABBO OLTmanns.

Map of Huichueteca conducts the waters of the Rio de Guanitlan by the Rio de Toluca and the Rio de Bunn to the Atlantic Ocean. — The tanks of Zumpango and San Christobal (B.P.C.) were added in 1796 & 1798. — The small tank of Tertidene was to throw the Desague dry. — The tanks (A.B) were projected to remove the risk to which the city of Mexico is still exposed of inundations from the South and East.

Humboldt.





MAP of the Valley of Mexico.

And Neighbouring Mountains

Sketched on the Spot in 1804 by Don Louis Martin,
and now modelled and corrected in 1807
from the Trigonometrical operations of
Don Joaquin Velasquez.

and the Astronomical observations, and Barometrical
measurements of C. W. de Humboldt.

By JABBO OLTmanns.

The Canal of Hachicuete conducts the waters of the Rio de Guaditlan by the Rio de Tula or Motezuma and the Rio de Pánuco to the Atlantic Ocean. — The canals of Zumpango (D.F) and San Christobal (B.F.C) were added in 1796 & 1798. — The small canal of Tertulio (D.E) serves to throw the Desague dry. — The canals (A.B) were projected to remove the danger to which the City of Mexico is still exposed of inundations from the South and East.
Humboldt.

Part of the
Territory of Tlascala.



The small Rivers which rise in the
Southern declivity of the Cordillera of
Guadalupe and Popocatépetl join the
Rio Papagayo which falls into the
South Sea.

PUEBLA
de los Angeles
(10000)

P.

Vera C.
Nor
Par
or'
The
ter,
ord
TV
1 to
The

P^{re} G



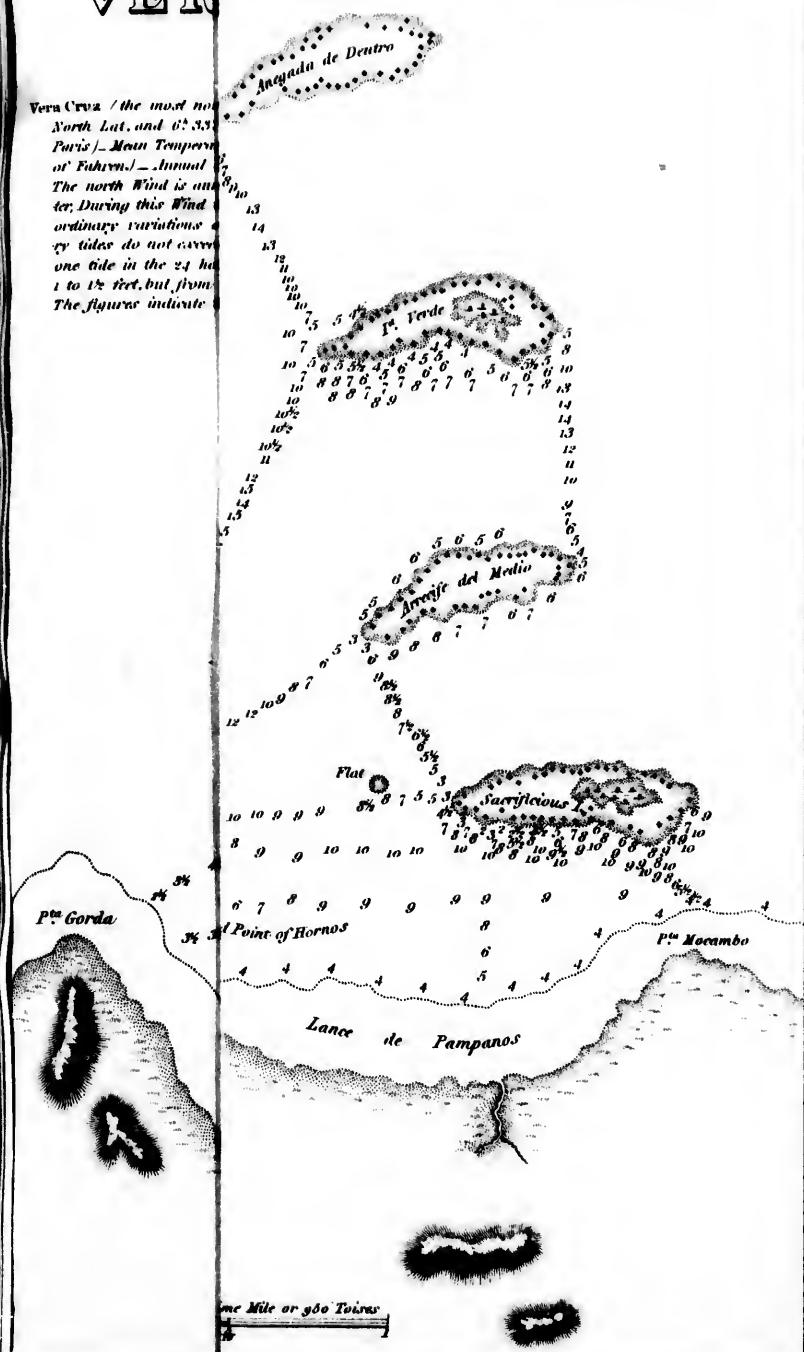
PLAN

VER

Cape de Perote

Pta. Delgada N. & S. N. cor.
distancia 1 Leagues

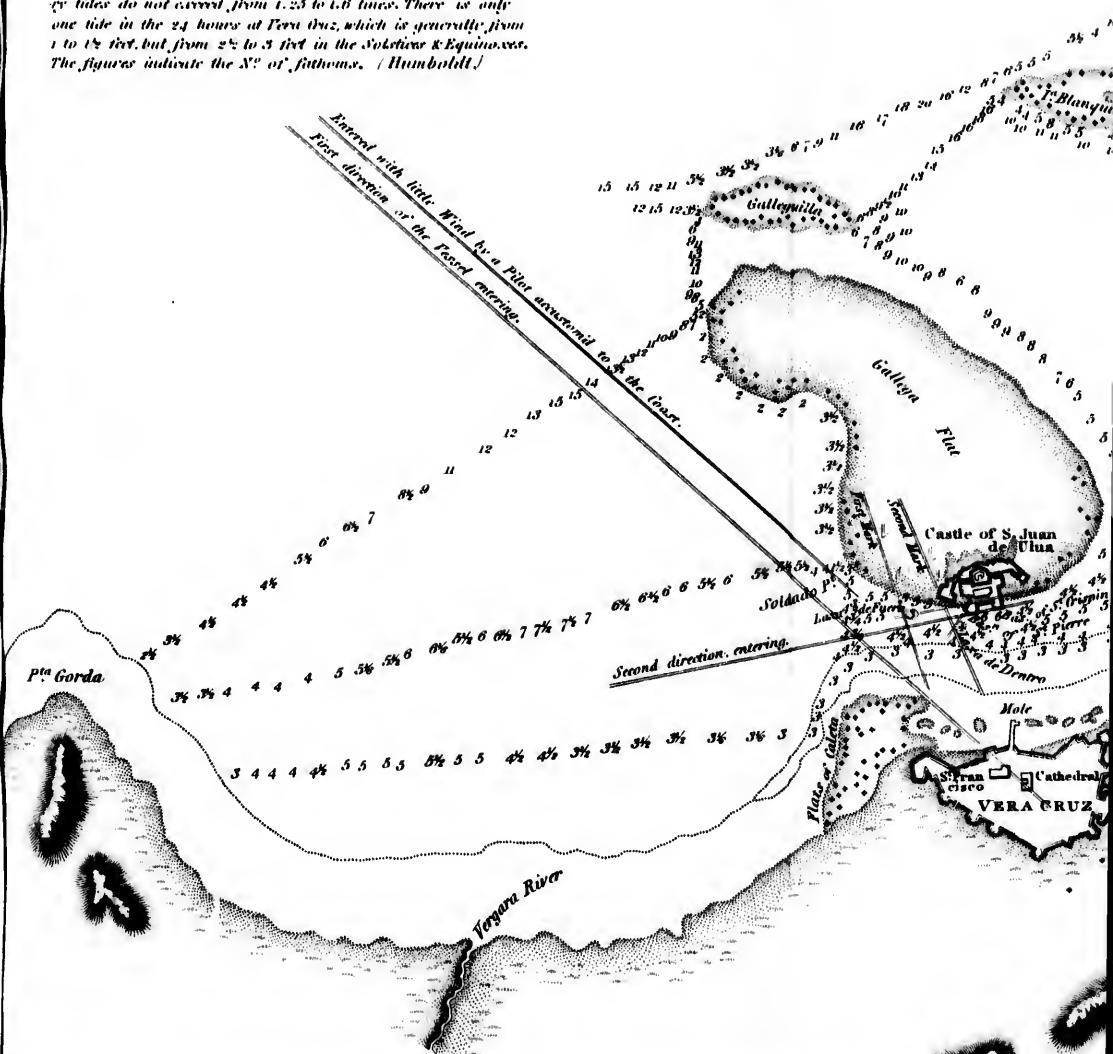
Vera Cruz / the most nor
North Lat. and 6° 33'
Paris). Mean Tempera
ture of Fahrenheit) — Annual
The north Wind is an
other. During this Wind
ordinary variations of
the tides do not exceed
one tide in the 24 hours
1 to 1½ feet, but from
the figures indicate

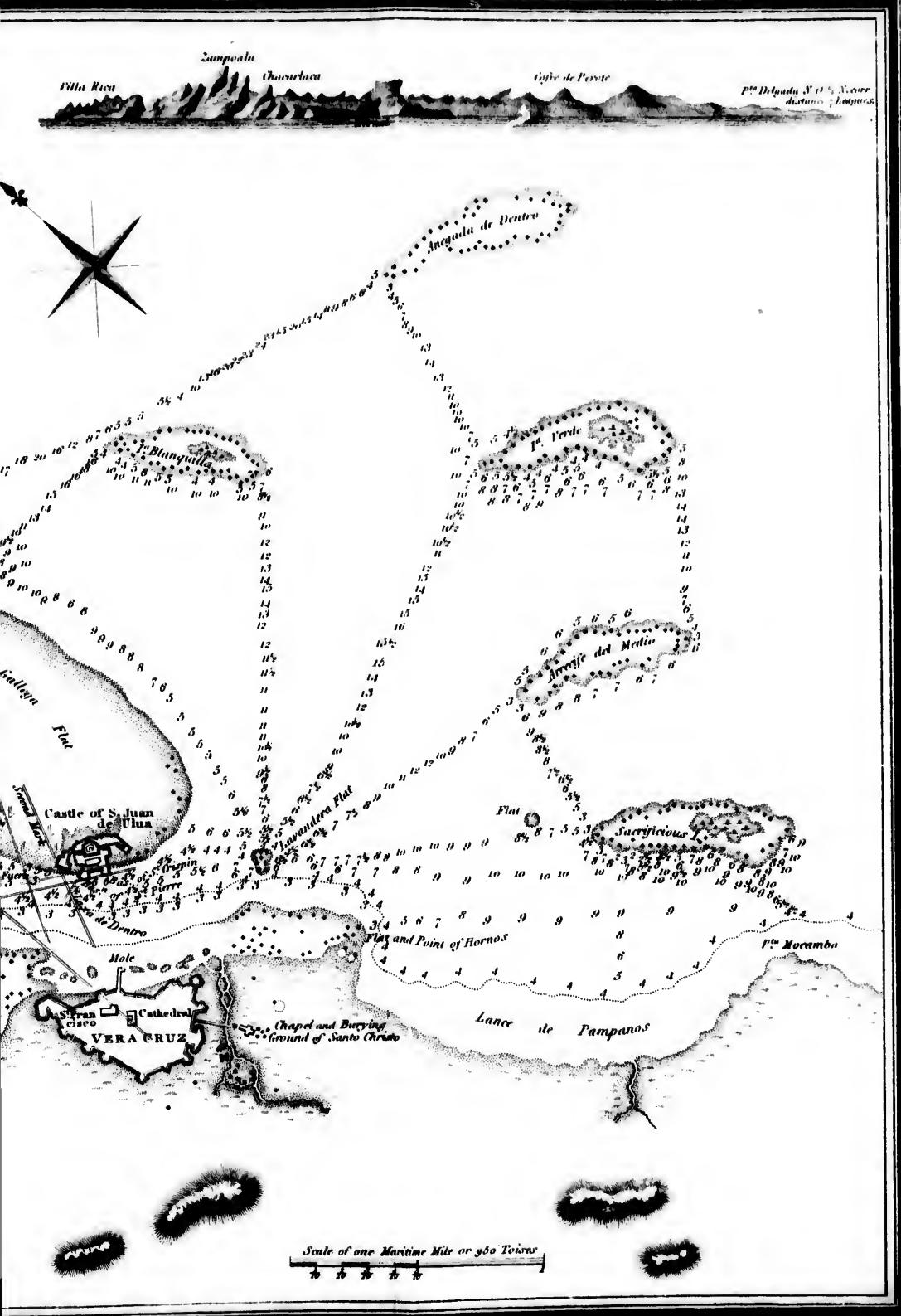


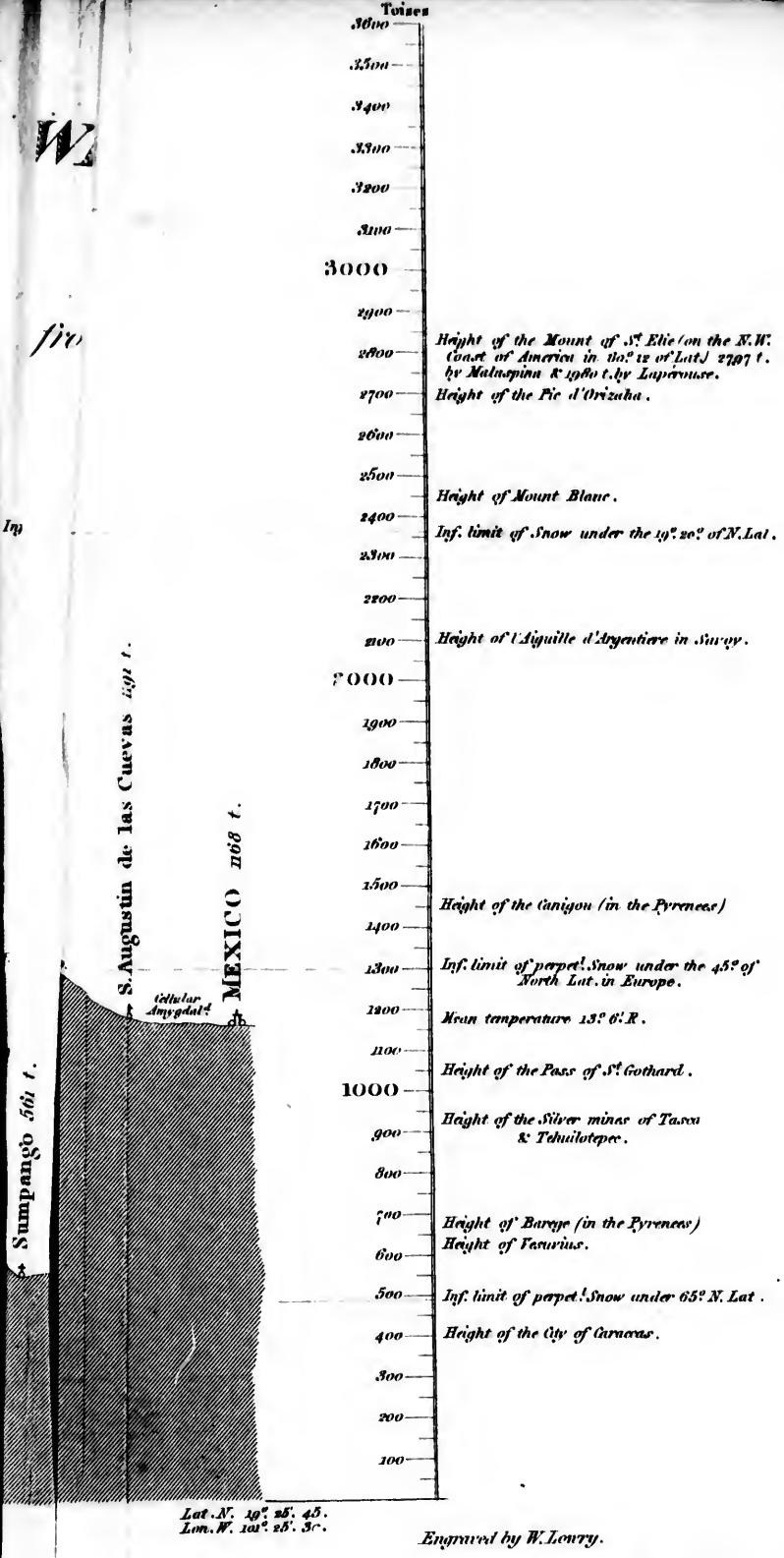
PLAN of the PORT of VE RACRUZ.

Vera Cruz

Vera Cruz (the most northern part of the city) lies in $19^{\circ} 4' 52''$ North Lat. and $97^{\circ} 33' 56''$ of West Long. (from the 0^o Merid. of Paris).—Mean Temperature $23^{\circ} 5'$ of the Centigrade Therm. ($75^{\circ} 14'$ of Fahrenheit).—Annual Quantity of rain from 80 to 100 inches. The north Wind is announced by a great change in the barometer. During this Wind the Merguez rises 6 or 7 times, while the ordinary variations or action of the lower atmospheric horaege tides do not exceed from 1.25 to 1.8 times. There is only one tide in the 24 hours at Vera Cruz, which is generally from 1 to 1½ feet, but from 2½ to 3 feet in the Solstices & Equinoxes. The figures indicate the fms. of fathoms. (Humboldt.)







Metres
7000

Height of the Chimborazo

6500
6000

Height of the Popocatepetl or
Great Volcano of Mexico

5500
5000

Int^r. limit of perpetual snow under
the 45° 20' of North Lat.

4500
4000

3500

Height of Quito

3000
2500

of limit of perpetual snow under
the 45° of Lat. in Europe

2500

of the Silver mines of Guatemala

2000
2000

1500

Int^r. limit of elevation of European
grain in Mexico.

1300

Height of the Brocken in Germany

1000

Int^r. limit of perpetual snow under
the 45° of North Lat.

—1000

Int^r. limit of Pine between Mexico
A. & Argentina.

700

—500

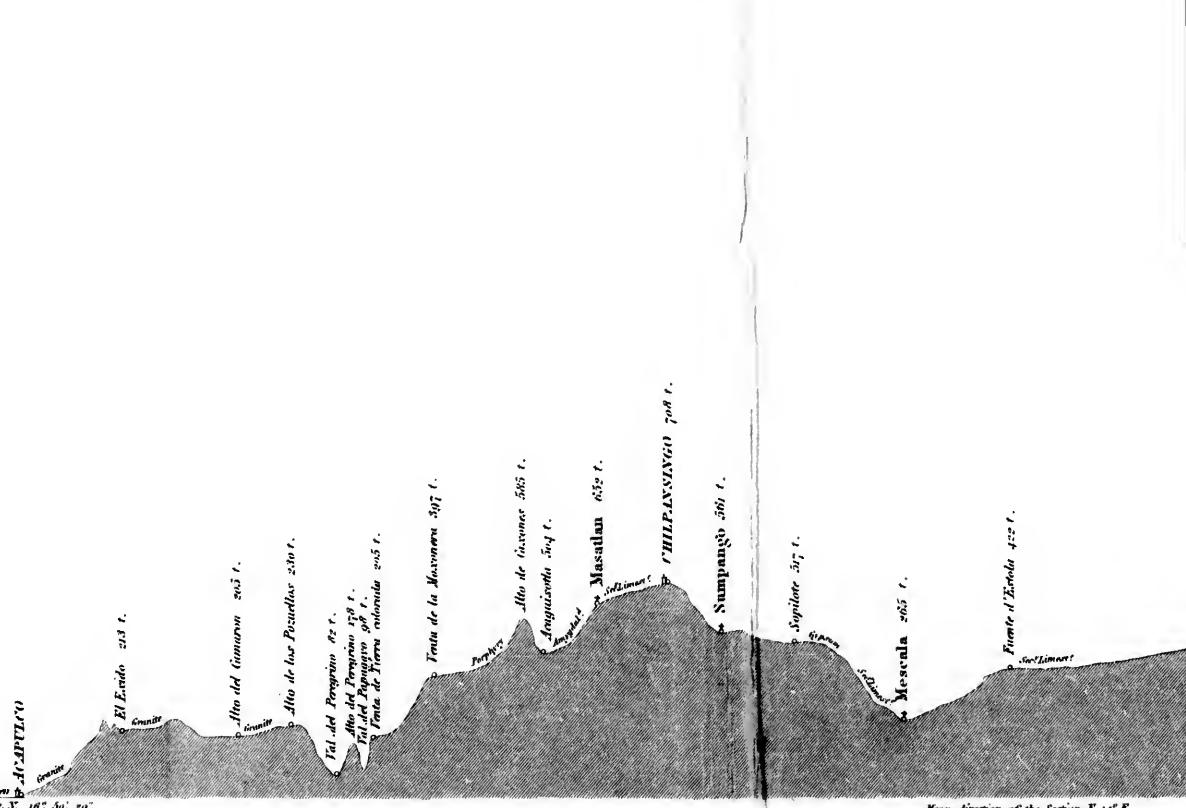
Mean temperature at R. under the
15° 20' of Lat.

—500

PHYSICAL SECTION of the WESTERN DECLIVITY

ROAD from MEXICO to AC-

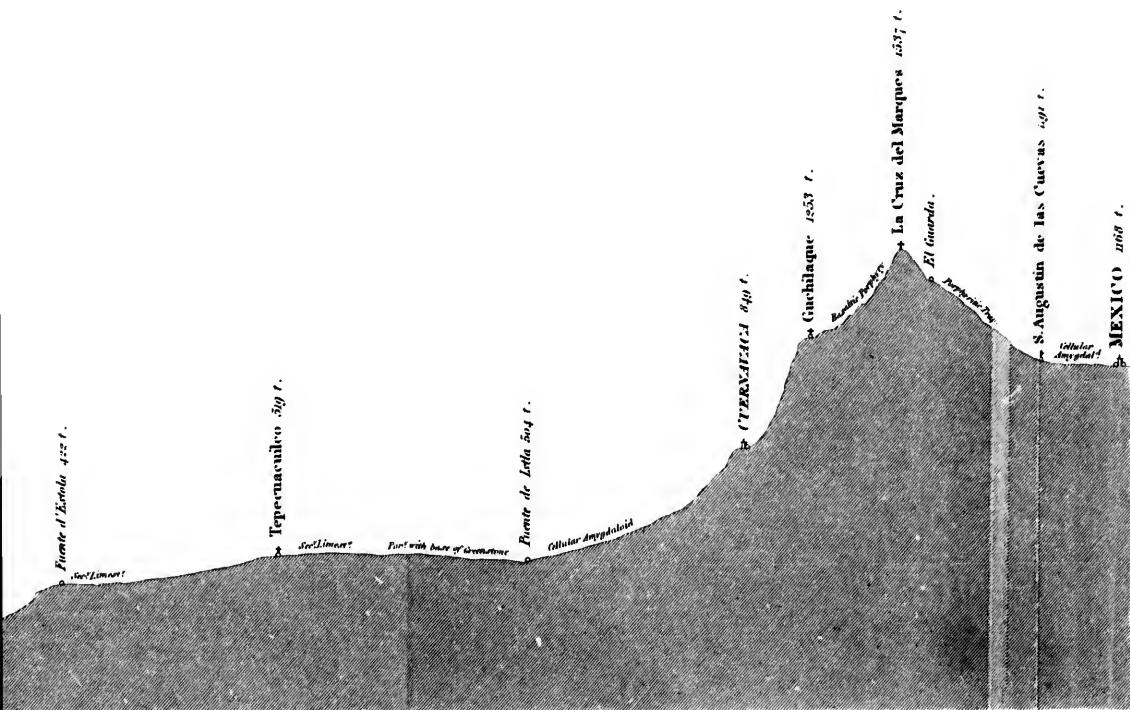
Drawn up, from Barometrical measurement in 1803,



DECLIVITY of the TABLE LAND of NEW SPAIN.

(MEXICO to AGAPOLCO)

as measured in 1803, by M. DE HUMBOLDT.



direction of the Section N. 14° E.

Leagues of 60 to the Degree
1 2 3 4 5 6 7 8 9 10

Published by Longman & C. Co., 1810.

	Totals
3000	
2800	Height of the Mount of St. Elie, on the N.W. Coast of America, in the 12° of Lat. 2707 ft. by Malaspina & Quirós, by Lapérouse.
2700	Height of the Piz d'Itrisabu.
2600	
2500	Height of Mount Blanc.
2400	Inf. limit of snow under the 45° 20' of N. Lat.
2300	
2200	Height of l'iguille d'Aigrette in Savoy.
2000	
1900	
1800	
1700	
1600	
1500	Height of the Canion (in the Pyrenees).
1400	
1300	Inf. limit of perpet. Snow under the 45° of North Lat. in Europe.
1200	Mean temperature 13° 6° R.
1000	Height of the Base of St. Gothard.
900	Height of the Silver mine of Taxco & Pachuca.
800	
700	Height of Barre (in the Pyrenees).
600	Height of Fermeuse.
500	Inf. limit of perpet. Snow under 45° N. Lat.
400	Height of the tip of Fermeuse.
300	
200	
100	

Lat. N. 19° 55' 45".
Long. W. 105° 55' 30".

Engraved by W. Lowry.

He

right

ght
su

1.

E

	Toises	
	Height to which H. Gay Lamee ascended in a Balloon 10 Sept. 1804.	
3500		
3400		
3300		
3200		
3100		
3000	Height of the <i>Cordillera de Chiapas</i> .	
2900		
2800		
2700		
2600		
2500		
2400	Inf. limit of perpet' Snow under the Equator.	
2300	D° under the 40° 20° of North Lat.	
2200		
2100		
2000	Highest limit of Pine on the <i>Cerro de Perote</i> .	
1900		
1800	Highest limit of the <i>Alma Mexicana</i> under the 20° of Lat.	
1700	Height of <i>Emea</i> .	
1600	Highest limit of Mexican Oak on the <i>Cerro de Perote</i> .	
1500		
1400		
1300	Inferior limit of perpet' Snow under the 45° of North Lat.	
1200	Mean temperature 13° 6' (Rea.) equal to that of <i>Toulon</i> .	
1000		
900	Inf. limit of Mexican Pine under the 19° & 20° on the Eastern declivity of the <i>Cordillera</i> .	
800	Greatest height at which the Banana tree riddle ripe fruit between <i>Vera Cruz</i> & <i>Perote</i> .	
700	Mean temperature 10° R. under the 19° 20° North Lat.	
600		
500	Inferior limit of perpet' Snow 65° N.Lat.	
400	Highest limit of Yellow River on the coast of <i>Vera Cruz</i> .	
300	Inf. limit of Mexican Oak between <i>Xalapa</i> & <i>Vera Cruz</i> .	
200	Height of the Plain of Madrid.	
100	Height of Geneva.	
	Mean temperature of 20° 22° (Rea.) Lat. N. 10° 11° 52'; under the 19° 20° N.Lat. Lon. W. 90° 20° 0'	

Engraved by Wilson Lowry.

Height of Mamberiza

above
5500

6000

5500

Height of Mont Blanc

4800

4500

Height of the Pic of Teneriffe

3700

Height of Mont Perdu (Highest
summit of the Pyrenees)

3600

3400

Height of the City of Quila

2900

2800

Height of the pass of St. Bernard

2500

of cultivation of European
grain in Mexico.

2400

Height of the Puy de Dome

2200

2000

Height of the Pic of Ararat

1800

1600

Height of the Andes in Summer

1400

1200

Height above the altitude
of Mamberiza

1000

800

Height of the City of Mexico
for one of altitude were equal
of distance.

600

Lat. N. 10° 25' 48"
Long. W. 100° 53' 30"

PHYSICAL SECTION of the EASTERN DECLIVITY

ROAD from MEXICO to VERA CRUZ

Drawn up from Barometrical & Trigonometrical meas.



First section mean Direction S. 70° E.

Lat. N. 10° 25' 48"
Long. W. 100° 53' 30"

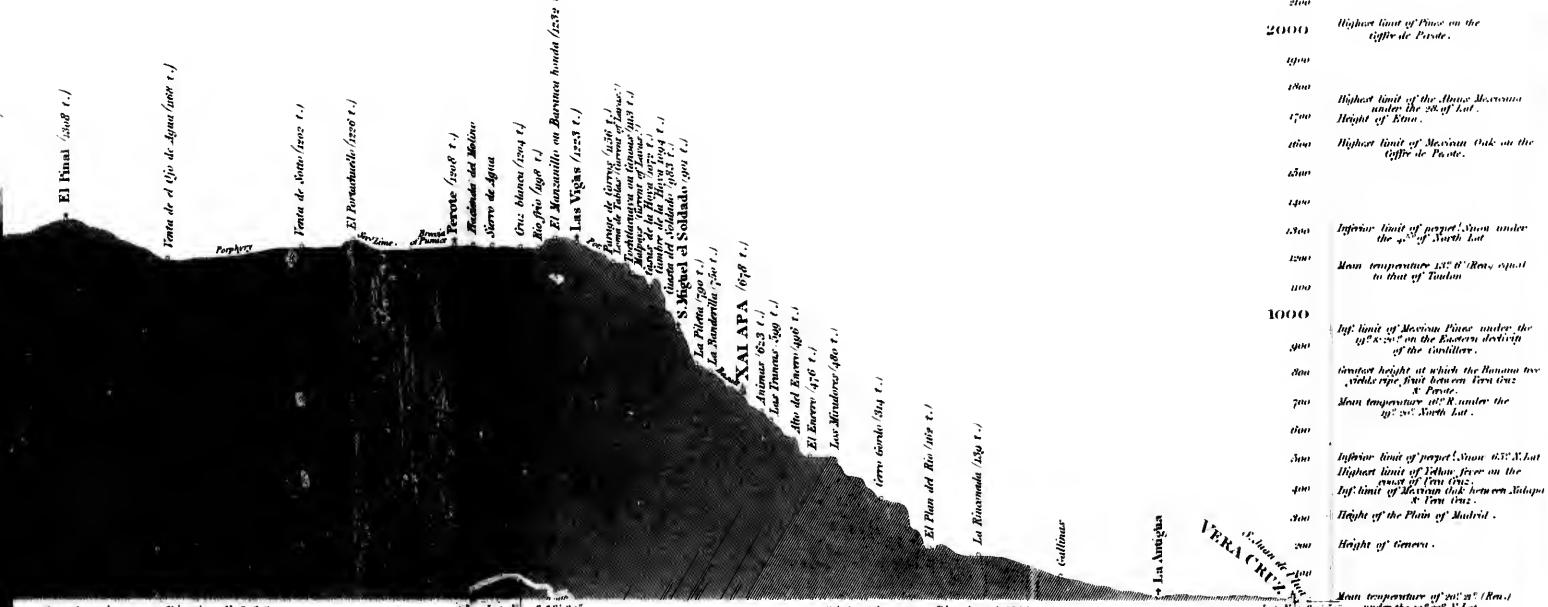
Second section mean Direction N. 52°

Marine Leagues of 20 to the Degree
Published by Longman C. T. Green & Co.

DECLIVITY of the TABLE LAND of NEW SPAIN.

VERA CRUZ by PUEBLA & XALAPA

geometrical measurement in 1804, by M. DE HUMBOLDT.



diamond

He

ight of

r limit
the

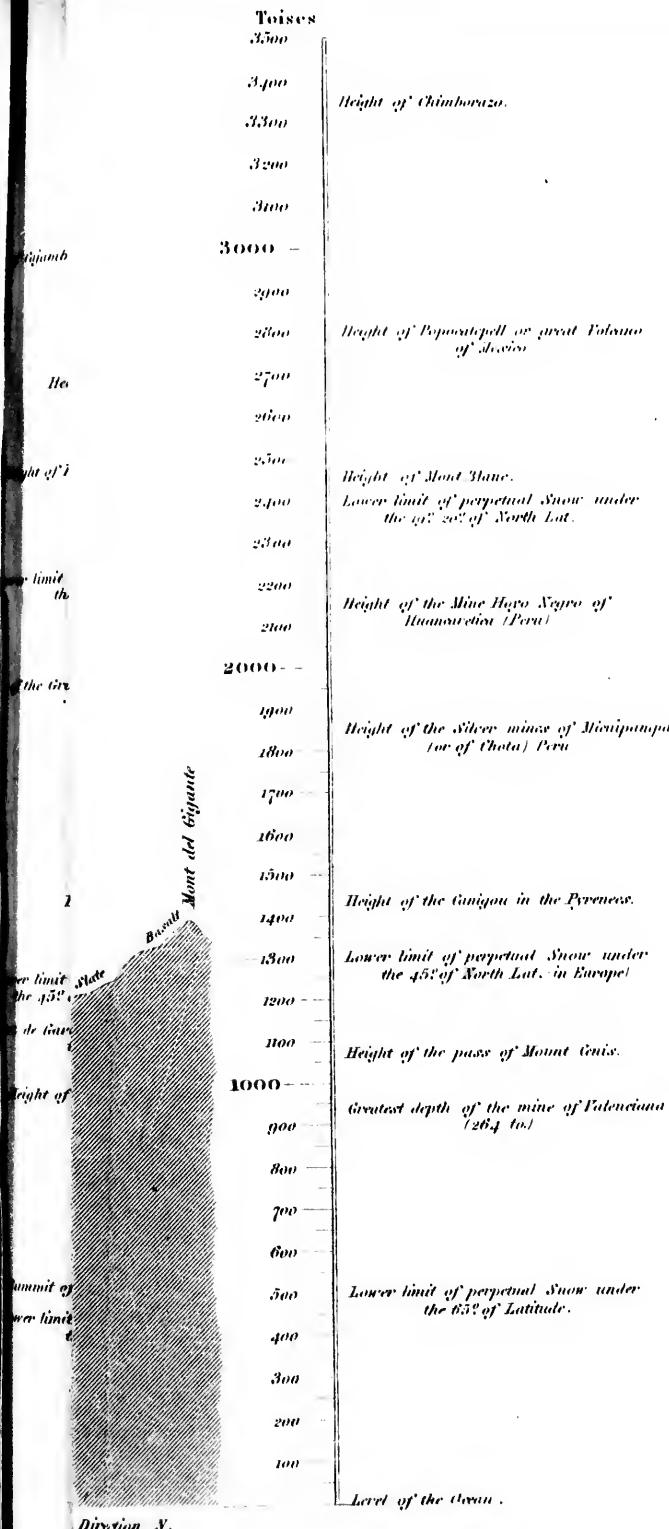
the Gr

er limit
the .45

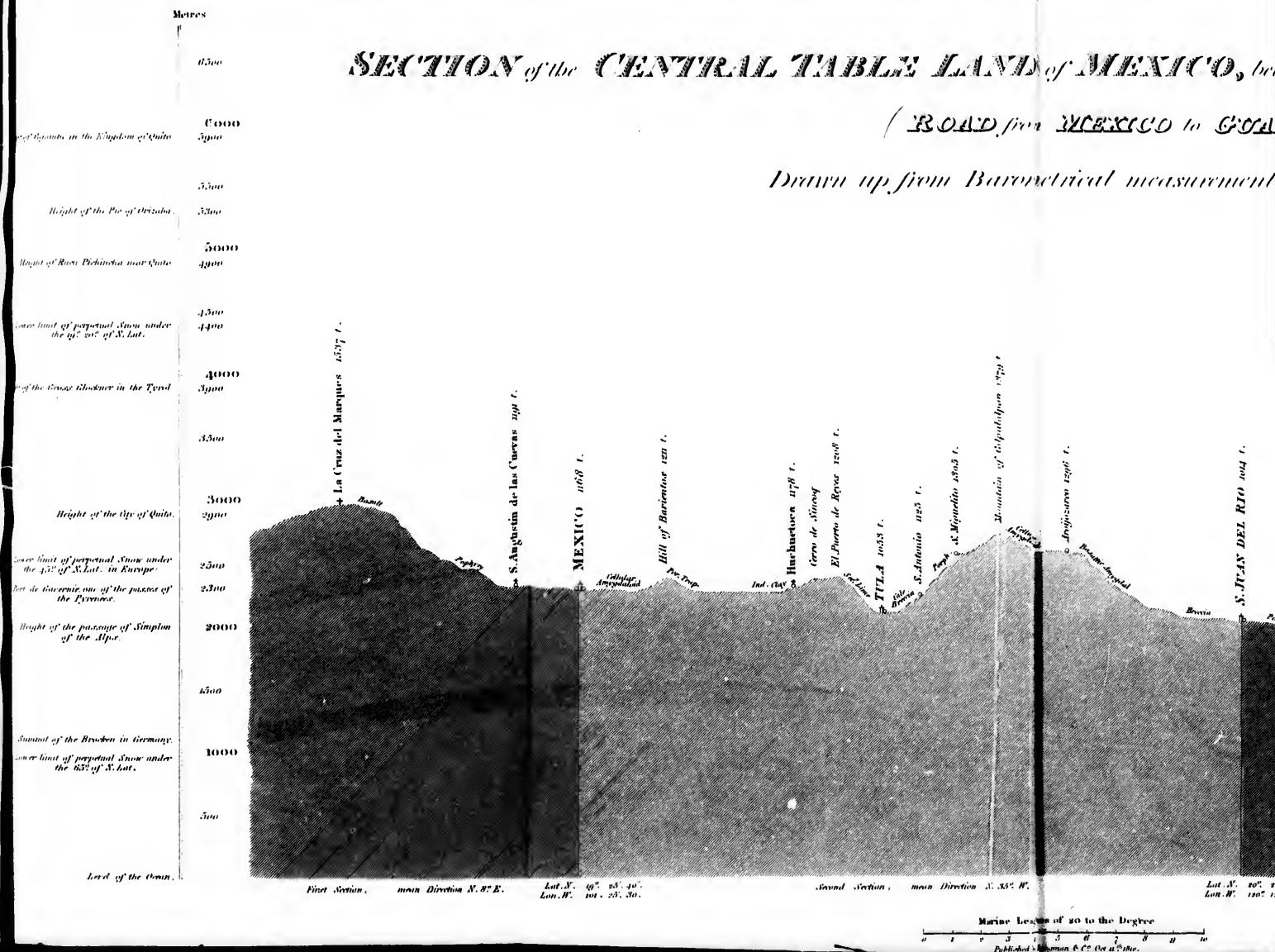
de Ga

eight

summ
wer b



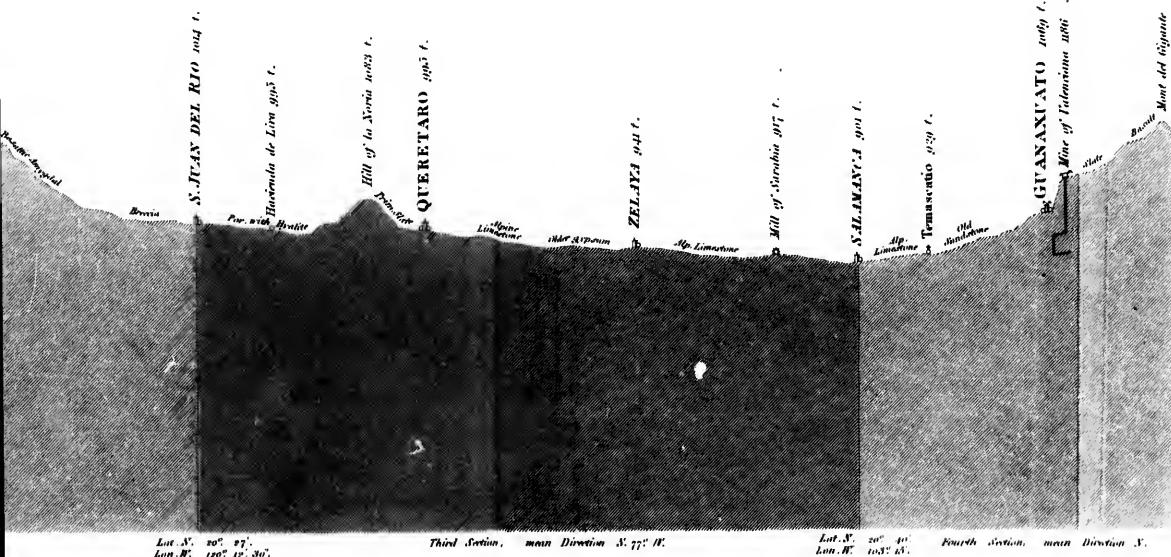
Engraved by Wilson Lowry.



MEXICO, between the 19° and 21° of NORTH LATITUDE.

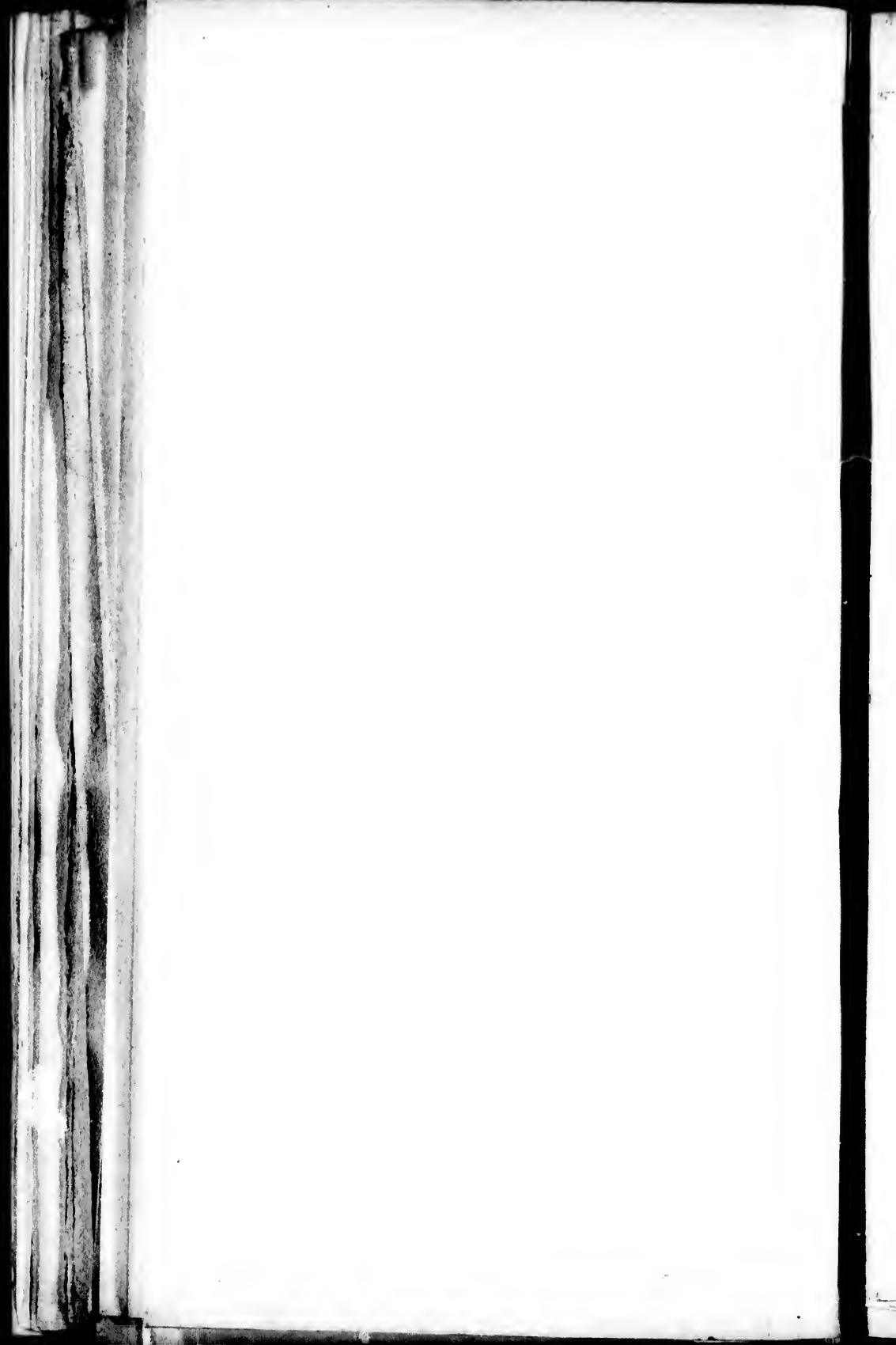
(MEXICO to GUANAJUATO)

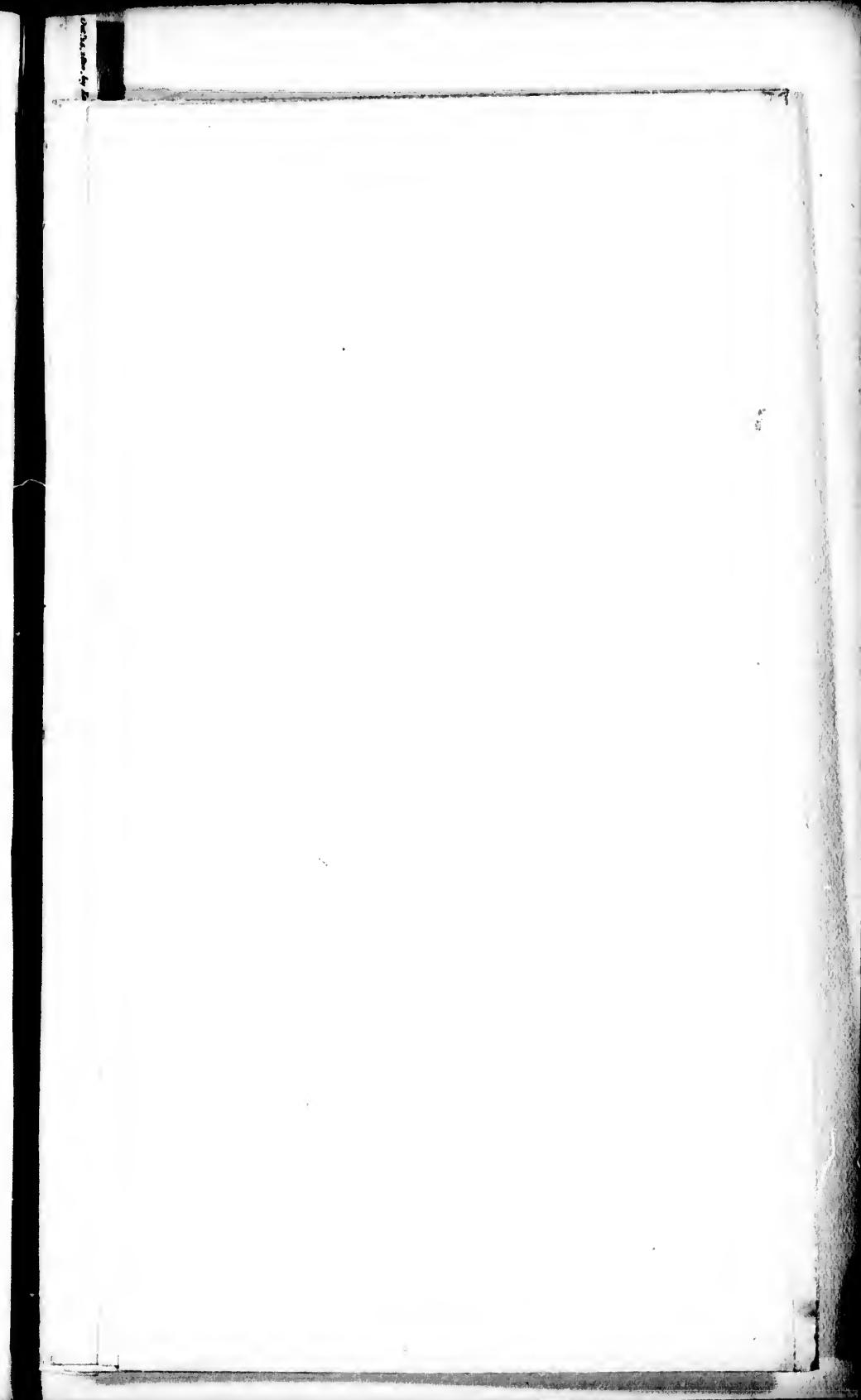
Vertical measurement by M. DE HUMBOLDT.

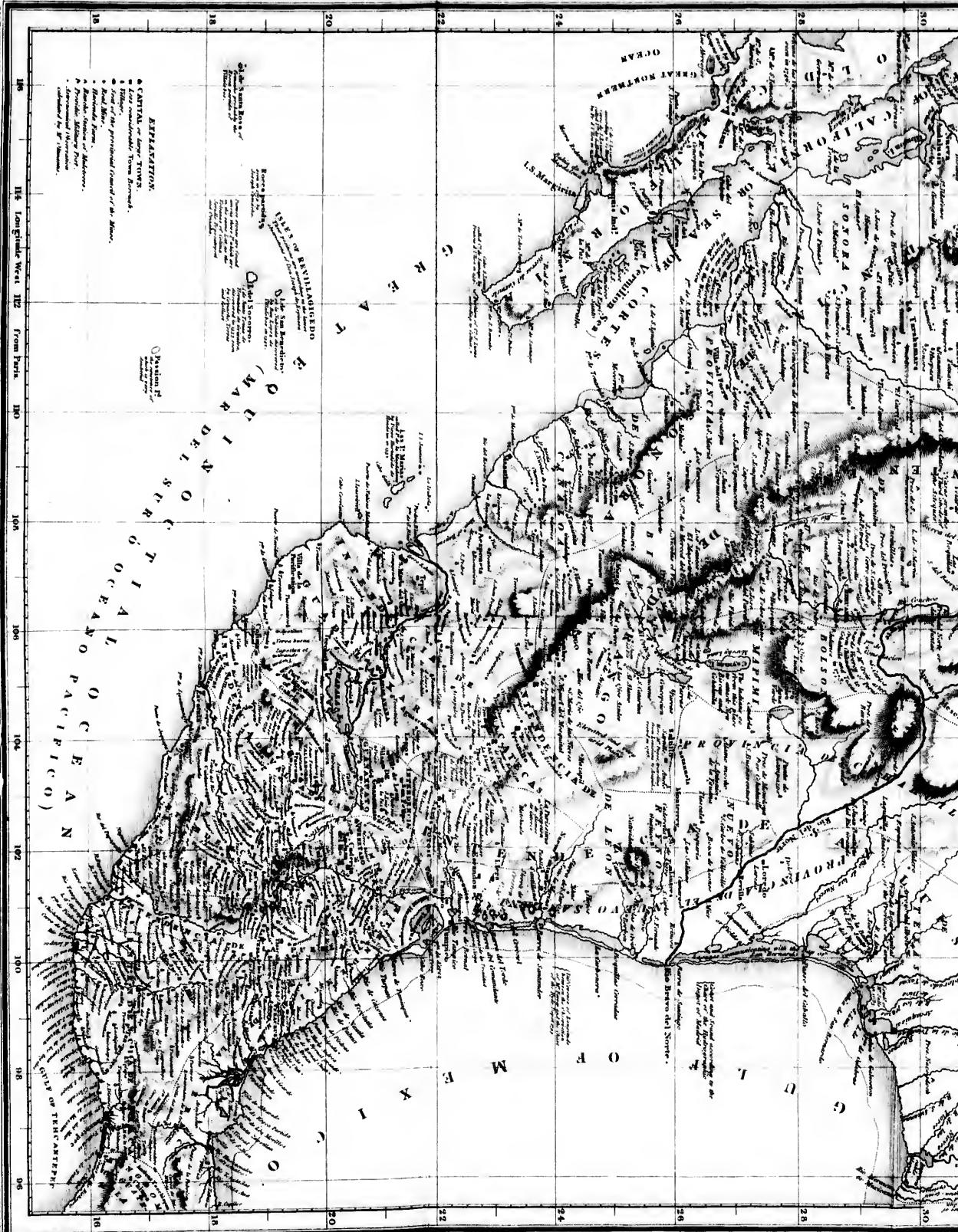


000	Level of the Ocean.
100	Lower limit of perpetual Snow under the 63° of Latitude.
200	Greatest depth of the mire of Patagonia (264 ft.)
300	Height of the pass of Mount Guine.
400	Lower limit of perpetual Snow under the 45° of North Lat., in Europe
500	Height of the Gougon in the Pyrenees
600	Height of the silver mine of Minquemont (or of Chata) Peru
700	Height of the Mine Huay Apurí of Huancaner Peru
800	Lower limit of perpetual Snow under the 45° of North Lat., in America
900	Height of the mine of Potosí (264 ft.)
1000	Height of the pass of Mount Guine
1100	Lower limit of perpetual Snow under the 63° of Latitude.
1200	Height of the pass of Mount Guine
1300	Lower limit of perpetual Snow under the 45° of North Lat., in Europe
1400	Height of the Gougon in the Pyrenees
1500	Height of the silver mine of Minquemont (or of Chata) Peru
1600	Height of the Mine Huay Apurí of Huancaner Peru
1700	Lower limit of perpetual Snow under the 45° of North Lat., in America
1800	Height of the mine of Potosí (264 ft.)
1900	Height of the pass of Mount Guine
2000	Lower limit of perpetual Snow under the 63° of Latitude.
2100	Height of the Mine Huay Apurí of Huancaner Peru
2200	Height of the pass of Mount Guine
2300	Lower limit of perpetual Snow under the 45° of North Lat., in Europe
2400	Height of the Gougon in the Pyrenees
2500	Height of the silver mine of Minquemont (or of Chata) Peru
2600	Height of the Mine Huay Apurí of Huancaner Peru
2700	Lower limit of perpetual Snow under the 63° of Latitude.
2800	Height of the pass of Mount Guine
2900	Lower limit of perpetual Snow under the 45° of North Lat., in America
3000	Height of the mine of Potosí (264 ft.)

Engraved by Wilson Lowry.







28 112 Longitude West of Greenwich, 100
30 114
32 116
34 118
36 120
38 122
40 124
42 126
44 128
46 130
48 132
50 134
52 136
54 138
56 140
58 142
60 144
62 146
64 148
66 150
68 152
70 154
72 156
74 158
76 160
78 162
80 164
82 166
84 168
86 170
88 172
90 174
92 176
94 178
96 180
98 182
100 184
102 186
104 188
106 190
108 192
110 194
112 196
114 198
116 200

The Lake of Texcoco and the one
near Mexico, called Lake Texcoco, in
the province of Tlaxcala, were
formed by the inundation
of the valley of Texcoco.

which ascend to

several peaks

in the mountains

of the Andes.

from 16° to 38° North Latitude
reduced from the Large Map drawn from
astronomical observations at Mexico
in the Year 1804.

BY MAXIME DE HUMBOLDT,
and comprehending the whole of the information contained in the
Original Map,

over the height of the Mountain.

A MAP OF
N E W S P A I N
from 16° to 38° North Latitude
reduced from the Large Map drawn from
astronomical observations at Mexico
in the Year 1804.

Original Map,
over the height of the Mountain.

