CENTRAL EUROPE 1:100,000

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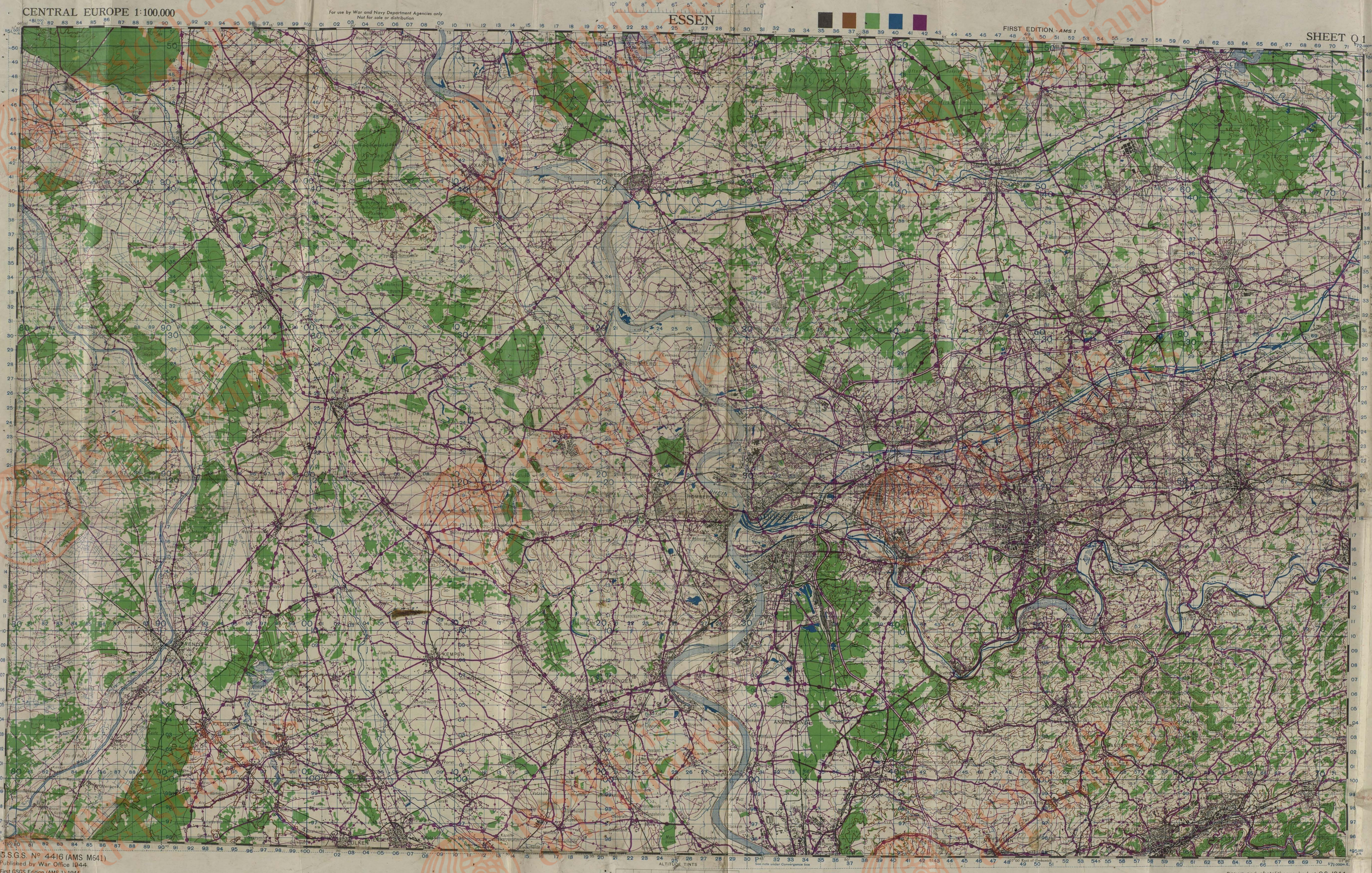
Not for sale or distribution

ESSEN

FIRST EDITION - AMS 1

SHEET Q 1

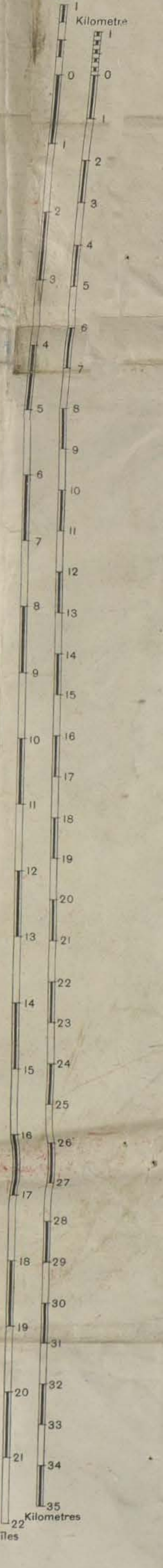


GLOSSARY

	Abhang	Slope
	Acker	Field
B.	Bach	Stream
	Bai	Bay
	Berg	Mountain
Bgw., Brgw.	Bergwerk	Mine
	Bruch	Marsh, Swamp
	Brücke	Bridge
Br.	Brunnen	Well
	Bühel	Hillock
Df.	Dorf	Village
	Ebene	Plain
Fabr., Fbr.	Fabrik	Factory
F	Fähre	Ferry
(K.F.)	(Kahn Fähre)	(Passenger Ferry)
(W.F.)	(Wagen Fähre)	(Vehicles ")
	Feld	Field
	Fels (en)	Rock(s)
	Fluss	River
	Forst	Forest
	Gau	Nazi District
	Gebirge	Range
	Gefilde	Open fields
G. Gr.	Graben	Ditch
	Grenze	Boundary
	Hafen	Harbour
	Hain	Grove
	Halde	Slope, Hillock
	Heide	Heath, Prairie
Hint.	Hinter	Back, Rear
	Hof	Farm, Courtyard
	Hohe	Hill, Height
	Hügel	Hill
I.	Insel	Island
Kl.	Klein	Small
K.O.	Kalkofen	Lime Kiln
	Kap	Cape
Lpl., Ldgs. Pl.	Landungsplatz	Landing Place
	Loch	Hollow
Mtl.	Mittel	Middle
	Morast	Bog, Swamp
Ndr.	Nieder	Lower
Ob., Obr.	Ober	Upper
	Platte	Wood Clearing
Qu.	Quelle	Spring
	Reutfeld	Cleared Land
	Riff	Rocks, Reef
	Rhore	Reeds
	Rücken	Ridge
	Schloss	Castle
	Schlucht	Gorge
	See	Sea, Lake
	Spitze	Peak, Point
	Stadt	Town, City
	Stein	Stone
Stbr.	Steinbruch	Quarry (Stone)
	Sumpf	Swamp, Marsh
	Tal., Thal	Valley
T.	Teich	Pond
	Ufer	Shore
Unt. Utr.	Unter	Under
Vw.	Vorwerk	Farmbuilding
	Wald	Woods
Wbh.	Wasser behälter	Reservoir
	Wiese	Meadow
Whs.	Wirtshaus	Inn
Zgl.	Ziegelei	Brickyard, Tile Kiln

Names of topographical feature e.g. Wald, are given on this sheet in their German form and no attempt to translate them has been made.

Scale
1:100,000
or
1 Inch to
1·58 Miles



G.S.G.S. Nº 4416 (AMS M641)
Published by War Office 1944.
First GSGS Edition (AMS 1) 1944

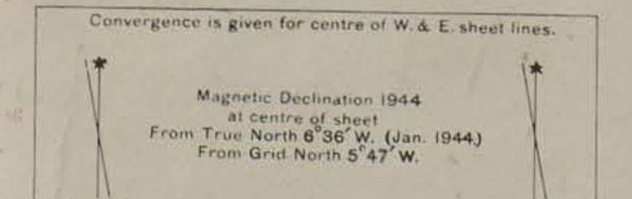
GRID DATA

NORD DE GUERRE

Projection	Lambert (Modified) Conical Orthomorphic
Spheroid	Du Plessis (Reconstituted)
Origin	55 Grades N. 6 Grades E. of Paris
False Co-ordinates of Origin	600,000 metres E. 300,000 metres N.

Longitude of Paris is 2°20' 14" East of Greenwich

Convergence is given for centre of W. & E. sheet lines.



Magnetic Declination 1944
at centre of sheet
From True North 6°36' W. (Jan. 1944.)
From Grid North 5°47' W.

To determine magnetic north line, connect the pivot point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH as plotted on the degree scale of the north edge of the map.

EXAMPLE OF A GRID REFERENCE ON THIS SHEET			
LETTER	A		
POINT	KAPELLEN		
East Take West edge of square and read figures opposite this line on North or South margin or on the line itself	20	**North** Take South edge of square and read figures opposite this line on East or West margin or on the line itself	13
Estimate tenths eastwards	6	Estimate tenths northwards	9
East	206	North	139
REFERENCE	A 206139		
Unit metre Square 1,000		Reference to nearest 100	

Nearest similar reference 500 kms. distant.

HOLLAND
Classification of roads

Road classification is NOT based on reconnaissance. Reliability uncertain.

- National Highways. (Ru Swegen) with 2 carriage ways, each carriage way over 6 metres wide metalled (4 way M. T.)
- " " (Ru Swegen) with 1 carriage way & Main roads, generally 6 metres wide or over metalled (usually 2 way M. T.)
- Other Main Roads. Generally 5 metres wide or over metalled (occasionally 2 way M. T.)
- Secondary Roads. Generally about 4 metres wide metalled (usually 1 way M. T.)
- Other Roads and Cart Tracks. Not always motorable and often unmetalled
- Paths

ALTITUDE TINTS

0 50 100 150 200 250 300 and above METRES

See note under Convergence box

REFERENCE

Road classification is NOT based on reconnaissance. Reliability uncertain.

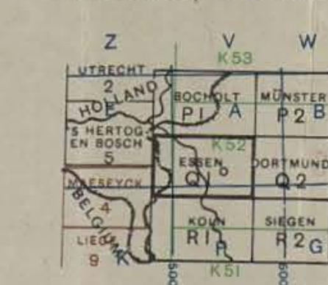
- Motor Highway. (independent of road system) Reichsautobahn.
  - 2 carriage ways each metalled and 7·5ms. wide
  - Connecting points with road system where known
  - Under construction
- Main Roads. Reichsstrassen with route numbers Metalled and mostly 6ms. wide — 56
- Other Main Roads. (mostly Landstrassen I. Ordung) metalled and 5·5ms. average useful width
- Secondary Roads. Metalled and 4ms. average useful width
- Other Roads and Cart Tracks. Not always motorable and often unmetalled
- Paths
- Causeway

- Railway. Multiple track (normal gauge) with station
  - " Single track " " broad gauge, light branch
  - " Under construction
  - " Narrow gauge, tram and track
- International Boundary
- Church, Chapel, Monument — Mon.
- Cemetery, Christian, and non Christian
- Wireless station, Tower, Lighthouse — Tr.
- High Tension cable and Power station

Contour intervals 25 metres
above 50 metres.
10 metres below 50 metres.
HEIGHTS IN METRES.

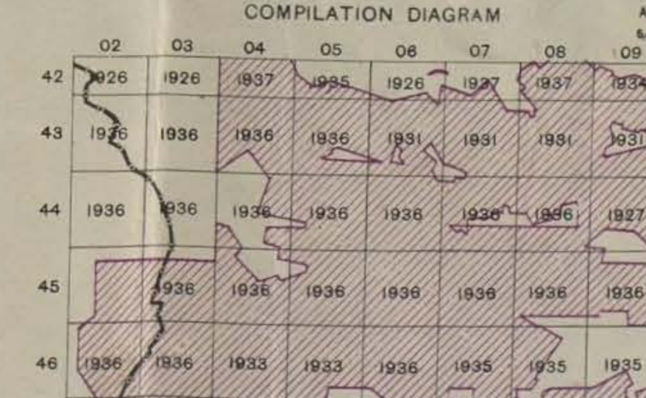
- Watermill, Windmill, Windmotor
- Lock, Water gate, Dam
- Aqueducts, over and underground
- Spring, Water cistern
- Swamps, Mud flats
- Contours Spot height. Trigonometrical point — ·60 △
- Woods, Brushwood
- Vineyard, Orchard
- Embankment, Old earthworks, Barrow
- Sand and gravel, Cliff (sometimes Quarry)

INDEX TO ADJOINING SHEETS
AND
INCIDENCE OF GRID LETTERS.



G.S.G.S. 2541 Holland 1:100,000 Shown in Black
G.S.G.S. 4336 Belgium & N.E. France 1:100,000 Shown in Brown
G.S.G.S. 4346 Germany 1:250,000 (Shown in Green)

COMPILATION DIAGRAM



Drawn and photolithographed at O.S. 1944.

ARMY MAP SERVICE, U. S. ARMY, WASHINGTON, D. C. 136086
1944

Authorities

German 1:100,000 Sheets 82a & 82b 1937-39, 1:25,000 Sheets 4202-09, 4302-09, 4402-09, 4503-09, 4602-09, 4702-09.

For dates and sheet numbers of 1:25,000 Sheets see Compilation diagram.

G.S.G.S. 4083 Sheets 46 & 52 (1935)
G.S.G.S. 4040 Sheets 27 & 37 (1939)

Railway Classification from German 1:750,000 Railway Map 1935.

Road Classification from G.S.G.S. 4042, 4083 & 4346 B.Z. Auto-Karte 1:250,000

Intelligence Reports 1937.

Area shown shaded revised from air photographs flown.
11/39-9/41

ESSEN
N5115-E600/30x120

Q1

CENTRAL EUROPE 1:100,000
SHEET N 3.
FIRST EDITION.
MINDEN

REFERENCE

Road classification is NOT based on reconnaissance. Reliability uncertain.

Motor Highway. (independent of road system) Reichsautobahn.
- 2 carriage ways each metalled and 7·5ms. wide.
- Connecting points with road system where known.
- Under construction.

Main Roads. Reichsstrassen with route numbers Metalled and mostly 6ms. wide. 56
Other Main Roads. (mostly Landstrassen I. Ordnung) metalled and 5·5ms. average useful width.
Secondary Roads. Metalled and 4ms. average useful width.
Other Roads and Cart Tracks. Not always motorable and often unmetalled.
Paths.
Causeway.
Railway. Multiple track (normal gauge) with station.
" Single track " " broad gauge, light branch.
" Under construction
" Narrow gauge, tram and track.
International Boundary.
Church, Chapel, Monument. Mon.
Cemetery, Christian, and non Christian.
Wireless station, Tower, Lighthouse. Tr.
High Tension cable and Power station
Watermill, Windmill, Windmotor.
Lock, Water gate, Dam.
Aqueducts, over and underground
Spring, Water cistern.
Swamps, Mud flats.
Contours, Trig. point, Spot height 30 △·60
Woods, Brushwood.
Vineyard, Orchard.
Embankment, Old earthworks, Barrow.
Sand and gravel, Cliff (sometimes Quarry).

Contour intervals 25 metres
above 50 metres.
10 metres below 50 metres.

HEIGHTS IN METRES.

Scale
1:100,000
or
1 Inch to
1·58 Miles

INDEX TO ADJOINING SHEETS
AND
INCIDENCE OF GRID LETTERS.

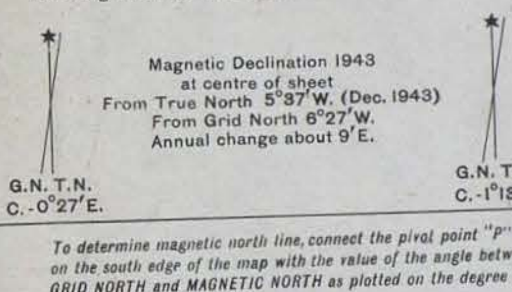
G.S.G.S. 4346. Germany 1:250,000.

GERMAN GLOSSARY

	Abhang	Slope
	Acker	Cultivation
B.	Bach	Stream
	Bai	Bay
	Berg	Mountain
Bgw., Brgw.	Bergwerk	Mine
	Bruch	Marsh, Swamp
	Brücke	Bridge
Br.	Brunnen	Well
	Bühel	Hillock
Df.	Dorf	Village
	Ebene	Plain
Fabr., Fbr.	Fabrik	Factory
F.	Fähre	Ferry
(K.F.)	(Kahn Fähre)	(Passenger Ferry)
(W.F.)	(Wagen Fähre)	(Vehicle Ferry)
	Feld	Field
	Fels (en)	Rock(s)
	Fluss	River
	Forst	Forest
	Gau	District, Province
	Gebirge	Range
	Gefilde	Open fields
G., Gr.	Graben	Ditch
	Grenze	Boundary, Frontier
	Hafen	Harbour
	Hain	Grove
	Heide	Heath, Prairie
Hint.	Hinter	Back, Rear
	Hof	Farm, Courtyard
	Hohe	Hill, Height
	Hügel	Hill
I.	Insel	Island
Kl.	Klein	Small
K.O.	Kalkofen	Lime Kiln
	Kap	Cape
Lpl., Ldgs.Pl.	Landungsplatz	Landing Place
	Loch	Hollow
Mtl.	Mittel	Middle
	Morast	Bog, Swamp
Ndr.	Nieder	Lower
Ob.,Obr.	Ober	Upper
	Platte	Wood Clearing
Qu.	Quelle	Spring
	Reutfeld	Cleared Land
	Riff	Rocks, Reef
	Rohre	Reeds
	Rücken	Ridge
	Schloss	Castle
	Schlucht	Gorge
	See	Sea, Lake
	Spitze	Peak, Point
	Stadt	Town, City
	Stein	Stone
Stbr.	Steinbruch	Quarry (Stone)
	Sumpf	Swamp, Marsh
	Tal., Thal	Valley
T.	Teich	Pond
	Ufer	Shore
Unt. Utr.	Unter	Under
Vw.	Vorwerk	Farmbuilding
	Wald	Woods
	Wasserbehälter	Reservoir, Water-tank
Wltg	Wasserleitung	Water-conduit, Aqueduct
	Wiese	Meadow
Whs.	Wirtshaus	Inn
Zgl.	Ziegelei	Brickyard, Tile Kiln

Names of topographical feature, e.g. Wald, are given on this sheet in their German form and no attempt to translate them has been made.

Convergence is given for centre of W. & E. sheet lines.



Magnetic Declination 1943
at centre of sheet
From True North 5°37′W. (Dec. 1943)
From Grid North 6°27′W.
Annual change about 9′E.

To determine magnetic north line, connect the pivot point "p" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH as plotted on the degree scale of the north edge of the map.

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
LETTER W
POINT HÜFFE
East: *Take West edge of square and read figures opposite this line on North or South margin or on the line itself* 53; *Estimate tenths eastwards* 2; East 532
North: *Take South edge of square and read figures opposite this line on East or West margin or on the line itself* 15; *Estimate tenths northwards* 6; North 156
REFERENCE W 532156
Unit ...metre Square.....1,000 Reference to nearest 100
Nearest similar reference 500 kms. distant.

GRID DATA

NORD DE GUERRE

Projection	Lambert (Modified) Conical Orthomorphic
Spheroid	Du Plessis (Reconstituted)
Origin	55 Grades N. 6 Grades E. of Paris
False Co-ordinates of Origin	600,000 metres E. 300,000 metres N.

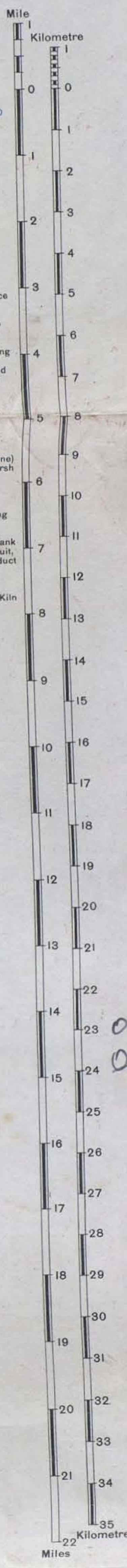
Longitude of Paris is 2°20′14″East of Greenwich

COMPILATION DIAGRAM

	16	17	18	19	20	21
32	1937	1938	1936	1936	1936	1936
33	1936	1934	1936	1934	1935	1935
34	1897	1934	1936	1936	1934	1936
35	1937	1937	1937	1937	1938	1937
36	1937	1937	1934	1934	1935	1936
37	1936	1936	1934	1929	1937	1929

Authorities
Germany 1:100,000. Sheet 60. 1934.
For dates and sheet numbers of 1:25,000 sheets see Compilation Diagram.
Road classification from G.S.G.S. 4346.

Area shown shaded revised from air photographs ▨



Oeynh
Oefhan

See note under Convergence box

ALTITUDE TINTS

Drawn and photolithographed at O.S. 1944

G.S.,G.S. Nº 4416
Published by War Office 1944
40,000/3/44. Wa.

N3

FRANCE AND BELGIUM 1:50,000

G.S.G.S. No 4040. W.O. 1938.
Second Edition, 1943.

440,000 m.N

Road classification not based on reconnaissance, reliability uncertain

Over 8 Metres, Main Road (Route Nationale, Chemin de Grande Communication)

6-8 Metres wide, metalled or pavé .... Trees

3-6 " " " " "

Secondary Road (Chemin Departmental, Chemin d'Intérêt Commun) .... Cutting Embankment

Other Roads & Cart Tracks; Foot Paths

Power Cable, Aerial Railway

Railway; Double, Under Construction .... Tunnel Station Viaduct

" Single line .... Bridge (under) Halt Bridge (over)

Tramway or Narrow Gauge line } off road .... Level Crossing

on roadside ....

Boundary, International ....

" Department (Province in Belgium)

" Arrondissement ....

" Canton, Commune ....

INCIDENCE OF GRID LETTERS AND INDEX TO ADJOINING SHEETS

44 Termonde	45 Malines	400 46 Diest
55 J Brussels	56 Louvain	57 K Tirlemont
66 Nivelles	67 Gembloux	68 Ambresin

RELIABILITY DIAGRAM

▨ Revised from Air Photos.

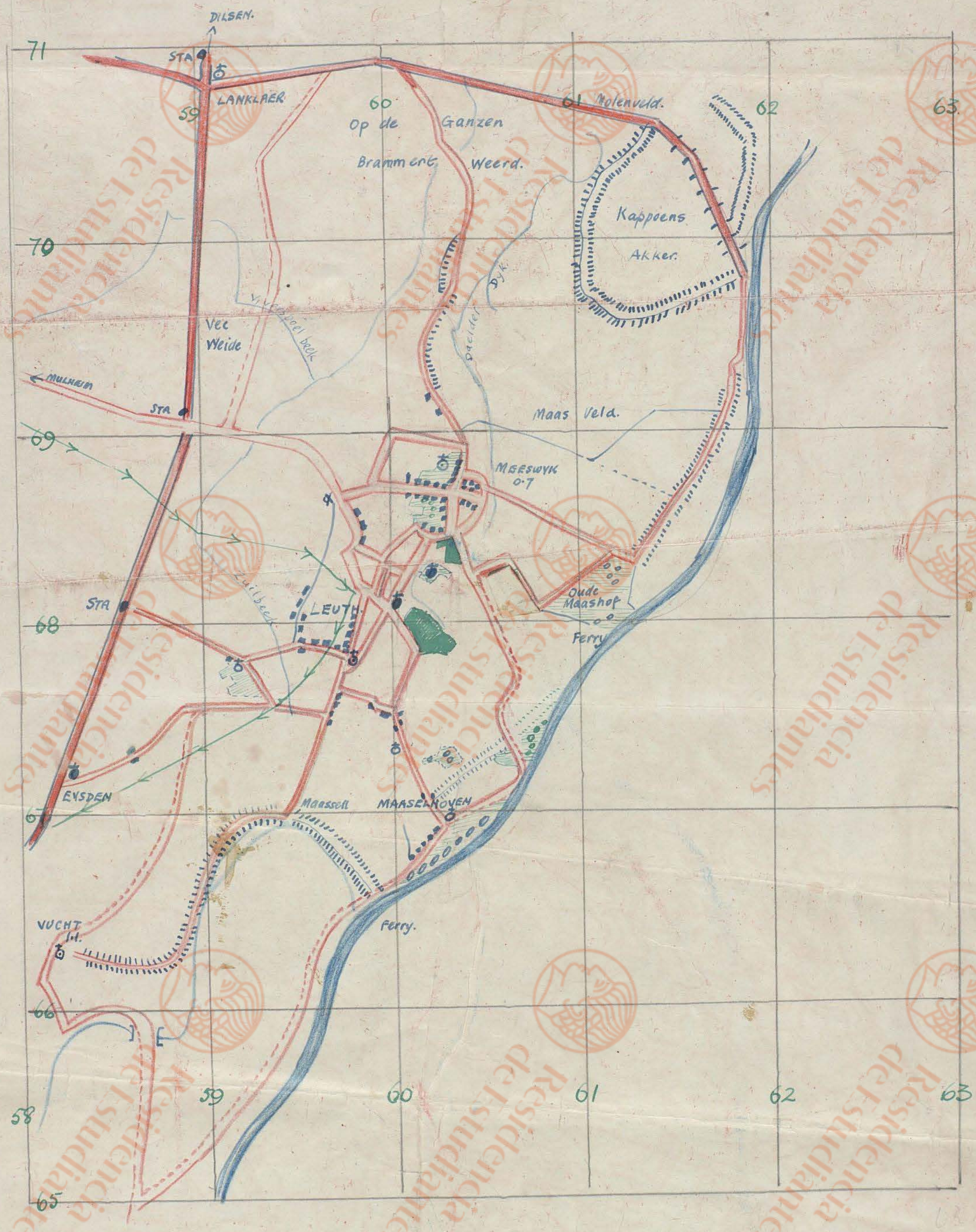
Scale

Metres 1,000 500 0

Yards 1,000 0

Mile 1 ¾ ½ ¼ 0

The Grid on this map is Nord de Guerre


DILSEN.
71
STA
LANKLAER
59
60
61
62
63
Op de Ganzen
Brammert Weerd.
Molenveld.
Kappoens Akker.
70
Vivers poel beek
Vec Weide
Daelder
Dyk
MULHEIM
STA
69
Maas Veld.
MEESWYK O·7
Zuidbeek
LEUTH
Oude Maashof
Ferry
68
STA
EVSDEN
67
Maassell
MAASELHOVEN
Ferry.
VUCHT
66
58
59
60
61
62
63
65

CENTRAL EUROPE 1:100,000
SHEET N4.
FIRST EDITION.

HANNOVER

REFERENCE

Road classification is NOT based on reconnaissance. Reliability uncertain.

Motor Highway. (independent of road system) Reichsautobahn.
- 2 carriage ways each metalled and 7·5ms. wide
- Connecting points with road system where known
- Under construction

Main Roads. Reichsstrassen with route numbers
- Metalled and mostly 6ms. wide — 56
- Other Main Roads. (mostly Landstrassen I. Ordnung) metalled and 5·5ms. average useful width

Secondary Roads. Metalled and 4ms. average useful width

Other Roads and Cart Tracks. Not always motorable and often unmetalled

Paths

Causeway

Railway. Multiple track (normal gauge) with station
- Single track " " broad gauge, light branch
- " Under construction
- " Narrow gauge, tram and track

International Boundary

Church, Chapel, Monument

Cemetery, Christian, and non Christian

Wireless station. Tower, Lighthouse

High Tension cable and Power station

Watermill, Windmill, Windmotor

Lock, Water gate, Dam

Aqueducts, over and underground

Spring, Water cistern

Swamps, Mud flats

Contours, Trig point, Spot height — 19 — 60

Woods, Brushwood

Vineyard, Orchard

Embankment, Old earthworks, Barrow

Sand and gravel, Cliff (sometimes Quarry)

Contour intervals 25 metres above 50 metres. 10 metres below 50 metres.

HEIGHTS IN METRES.

Scale 1:100,000 or 1 Inch to 1·58 Miles

INDEX TO ADJOINING SHEETS AND INCIDENCE OF GRID LETTERS

R — BREMEN. P.M.3.	L.54 S — SOLTAU M.4.	M.54 T — SALZWEDEL M.5.
W — MINDEN N.3.	X — HANNOVER L.52 N.4.	Y — BRAUNSCHWEIG N.5. M.53.
DETMOLD B.P.3.	HILDESHEIM P.4. L.52 C	HALBERSTADT P.5. M.52 D

O.S.G.S. 4346. Germany 1:250,000. L.52.

GERMAN GLOSSARY

	Abhang	Slope	Kl.	Klein	Small
	Acker	Cultivation	K.O.	Kalkofen	Lime Kiln
	Bach	Stream		Kap	Cape
	Bai	Bay	Lpl.		Landing Place
	Berg	Mountain	Lndgs. Pl.	platz	Landing Place
Bgw.	Bergwerk	Mine		Loch	Hollow
Brgw.	Bruch	Marsh, Swamp		Mittel	Middle
	Brücke	Bridge	Msl.	Morast	Bog, Swamp
Br.	Brunnen	Well		Nieder	Lower
	Bühel	Hillock	Ndr. Obr.	Ober	Upper
Df.	Dorf	Village		Platte	Wood Clearing
	Ebene	Plain	Qu.	Quelle	Spring
				Reutfeld	Cleared Land
Fabr.	Fabrik	Factory		Riff	Rocks, Reef
Fähr.	Fähre	Ferry		Rohr	Reeds
(K.F.)	(Kahn Fähre)	(Passenger Ferry)		Rücken	Ridge
				Schloss	Castle
(W.F.)	(Wagen Fähre)	(Vehicle Ferry)		Schlucht	Gorge
	Feld	Field		See	Sea, Lake
	Fels(en)	Rock(s)		Spitze	Peak, Point
	Fluss	River		Stadt	Town, City
	Forst	Forest		Stein	Stone
	Gau	District, Province	Stbr.	Steinbruch	Quarry (Stone)
				Sumpf	Swamp, Marsh
	Gebirge	Range		Tal, Thal	Valley
	Gefilde	Open fields		Teich	Pond
	Graben	Ditch		Ufer	Shore
	Grenze	Boundary, Frontier	Unf. Unt.	Unter	Under
			Vw.	Vorwerk	Farmbuilding
	Hafen	Harbour		Wald	Woods
	Hain	Grove		Wasser	Reservoir
	Heide	Heath, Prairie		behälter	Water-tank
	Hinter	Beds, Rear	Wtg.	Wasserleitung	Water-conduit, Aqueduct
	Hof	Farm, Courtyard		Wiese	Meadow
	Hohe	Hill, Height	Whs.	Wirtshaus	Inn
	Hügel	Hill	Zgl.	Ziegelei	Brickyard, Tile Kiln
	Insel	Island			

Names of topographical feature, e.g. Walls, are given on this sheet in their German form and no attempt to translate them has been made.

Convergence is given for centre of W. & E. sheet lines.

Magnetic Declination 1943 at centre of sheet. From True North 0°05'W. (Dec. 1943). From Grid North 6°41'W. Annual change about 9'E.

G.N.T.N. 0 - 1°18'E. G.N.T.N. 0 - 1°58'E.

To determine magnetic north line, connect the pivot point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH as plotted on the degree scale of the north edge of the map.

EXAMPLE OF A GRID REFERENCE ON THIS SHEET

LETTER — X

POINT — COORDINATES

East: Take Bottom edge of square and read figures which lie to the left of point. Estimate tenths mechanically. East 323

North: Take Left edge of square and read figures which lie to the Bottom of point. Estimate tenths mechanically. North 317

REFERENCE — X 323317

Nearest similar reference 500 kms. distant.

GRID DATA

NORD DE GUERRE

Projection	Lambert (Modified) Conical Orthomorphic
Spheroid	Du Plessis (Reconstituted)
Origin	55 Grades N. 8 Grades E. of Paris
False Co-ordinates of Origin	600,000 metres E. 300,000 metres N.

Longitude of Paris is 2°20'14" East of Greenwich.

COMPILATION DIAGRAM

	22	23	24	25	26	27
32	1936	1935	1937	1937	1937	1938
33	1936	1936	1936	1931	1931	1931
34	1936	1936	1936	1936	1937	1937
35	1935	1937	1937	1936	1936	1936
36	1935	1937	1934	1936	1936	1936
37	1935	1935	1935	1925	1937	1934

Authorities

Germany 1:100,000, Sheet 61. 1936.
For dates and sheet numbers of 1:25,000 sheets see Compilation Diagram.
Road classification from G.S.G.S. 4346.

Area shown shaded revised from air photographs.

Kilometre — Miles

Drawn and photolithographed at O.S. 1944.

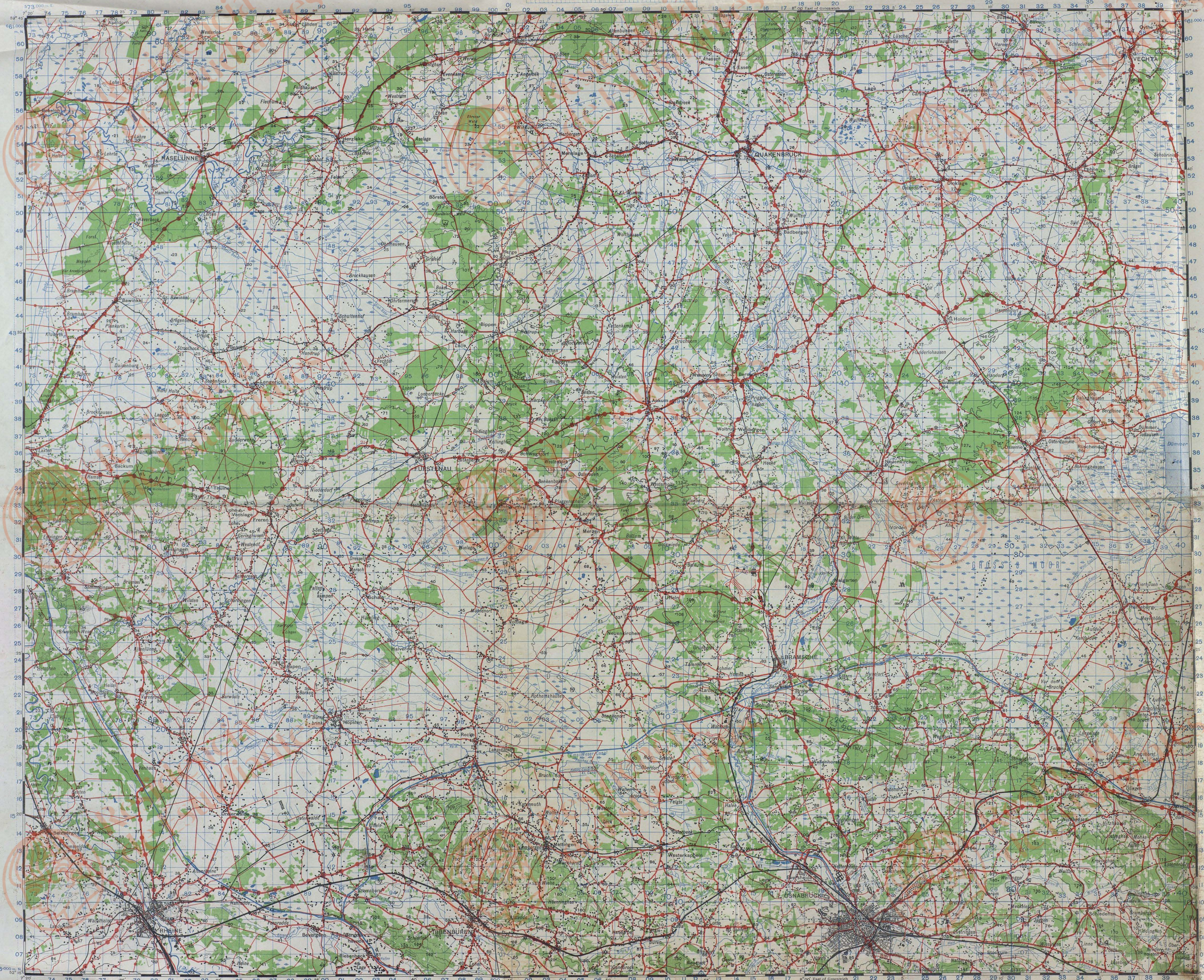
G.S.G.S. No 4416
Published by War Office 1944.
100,000/1944 W.O.

ALTITUDE TINTS

0 50 100 150 200 250 300 METRES

1:100,000 N4: Hanover.

N4



CENTRAL EUROPE 1:100,000
SHEET N2.
FIRST EDITION.
OSNABRÜCK

REFERENCE

Road classification is NOT based on reconnaissance. Reliability uncertain.

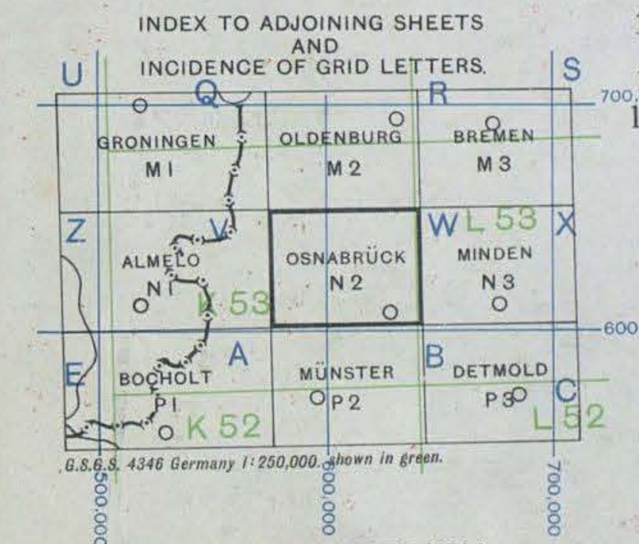
Motor Highway. (independent of road system) Reichsautobahn.
2 carriage ways each metalled and 7·5ms. wide.
Connecting points with road system where known.
Under construction.
Main Roads. Reichsstrassen with route numbers Metalled and mostly 6ms. wide. 56
Other Main Roads. (mostly Landstrassen I.Ordnung) metalled and 5·5ms. average useful width.
Secondary Roads. Metalled and 4ms. average useful width.
Other Roads and Cart Tracks. Not always motorable and often unmetalled.
Paths.
Causeway.
Railway. Multiple track (normal gauge) with station.
" Single track " " broad gauge, light branch.
" Under construction.
" Narrow gauge, tram and track.
International Boundary.
Church, Chapel, Monument. Mon.
Cemetery, Christian, and non Christian.
Wireless station, Tower, Lighthouse. Tr.
High Tension cable and Power station
Watermill, Windmill, Windmotor.
Lock, Water gate, Dam.
Aqueducts, over and underground
Spring, Water cistern.
Swamps, Mud flats.
Contours, Spot height. Trigonometrical point ·60
Woods, Brushwood.
Vineyard, Orchard.
Embankment, Old earthworks, Barrow.
Sand and gravel, Cliff (sometimes Quarry).

Contour intervals 25 metres
above 50 metres.
10 metres below 50 metres.

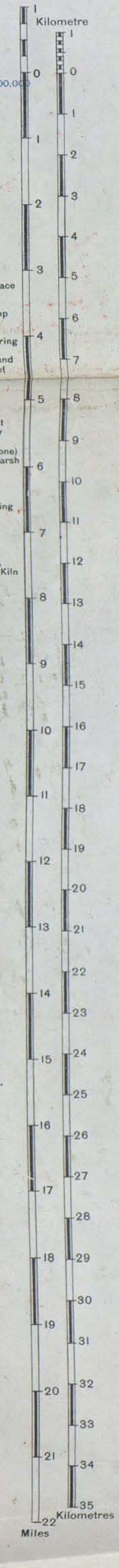
HEIGHTS IN METRES.

Scale
1:100,000
or
1 Inch to
1·58 Miles

INDEX TO ADJOINING SHEETS
AND
INCIDENCE OF GRID LETTERS.



G.S.G.S. 4346 Germany 1:250,000 shown in green.



GERMAN GLOSSARY

	Abhang	Slope
	Acker	Field
B.	Bach	Stream
	Bai	Bay
	Berg	Mountain
Bgw., Brgw.	Bergwerk	Mine
	Bruch	Marsh, Swamp
	Brücke	Bridge
Br.	Brunnen	Well
	Bühel	Hillock
Df.	Dorf	Village
	Ebene	Plain
Fabr., Fbr	Fabrik	Factory
F.	Fähre	Ferry
(K.F.)	(Kahn Fähre)	(Passenger Ferry)
(W.F.)	(Wagen Fähre)	(Vehicles ")
	Feld	Field
	Fels (en)	Rock(s)
	Fluss	River
	Forst	Forest
	Gau	Nazi District
	Gebirge	Range
	Gefilde	Open fields
G.Gr.	Graben	Ditch
	Grenze	Boundary
	Hafen	Harbour
	Hain	Grove
	Halde	Slope, Hillock
	Heide	Heath, Prairie
Hint.	Hinter	Back, Rear
	Hof	Farm, Courtyard
	Hohe	Hill, Height
	Hügel	Hill
I.	Insel	Island
Kl.	Klein	Small
K.O.	Kalkofen	Lime Kiln
	Kap	Cape
Lpl. Ldgs. Pl.	Landungsplatz	Landing Place
	Loch	Hollow
Mtl.	Mittel	Middle
	Morast	Bog, Swamp
Ndr.	Nieder	Lower
Ob.,Obr.	Ober	Upper
	Platte	Wood Clearing
Qu.	Quelle	Spring
	Reutfeld	Cleared Land
	Riff	Rocks, Reef
	Rohre	Reeds
	Rücken	Ridge
	Schloss	Castle
	Schlucht	Gorge
	See	Sea, Lake
	Spitze	Peak, Point
	Stadt	Town, City
	Stein	Stone
S:br.	Steinbruch	Quarry (Stone)
	Sumpf	Swamp, Marsh
	Tal., Thal	Valley
T.	Teich	Pond
	Ufer	Shore
Unt. Utr.	Unter	Under
Vw.	Vorwerk	Farmbuilding
	Wald	Woods
Wbh.	Wasserbehalter	Reservoir
	Wiese	Meadow
Whs.	Wirtshaus	Inn
Zgl.	Ziegelei	Brickyard, Tile Kiln

Names of topographical feature, e.g. Wald, are given on this sheet in their German form and no attempt to translate them has been made.

Convergence is given for centre of W. & E. sheet lines.

Magnetic Declination 1944
at centre of sheet
From True North 6° 08' W. (Jan. 1944)
From Grid North 6° 13' W.

Annual change 9' E.

T.N. G.N.
C. -0° 18' W.

G.N. T.N.
C. -0° 27' E.

To determine magnetic north line connect the pivot point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH as plotted on the degree scale of the north edge of the map.

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
LETTER V
POINT HOLSTEN

East		North	
Take West edge of square and read figures opposite this line on North or South margin or on the line itself	76	*Take South edge of square and read figures opposite this line on East or West margin or on the line itself*	13
Estimate tenths eastwards	2	*Estimate tenths northwards*	9
East	762	North	139

REFERENCE V 762139
Unit metre Square 1,000 Reference to nearest 100
Nearest similar reference 500 kms. distant.

GRID DATA

NORD DE GUERRE

Projection	Lambert (Modified) Conical Orthomorphic
Spheroid	Du Plessis (Reconstituted)
Origin	55 Grades N. 6 Grades E. of Paris
False Co-ordinates of Origin	600,000 metres E. 300,000 metres N.

Longitude of Paris is 2° 20' 14" East of Greenwich.

COMPILATION DIAGRAM

	10	11	12	13	14	15
32	1934	1936	1934	1934	1934	1934
33	1936	1934	1934	1936	1925	1938
34	1936	1936	1934	1936	1936	1934
35	1936	1936	1936	1937	1936	1936
36	1936	1936	1936	1934	1934	1937
37	1936	1936	1936	1934	1934	1936

Area shown shaded revised from air photographs. ▨

Authorities

German 1:100,000 Sheet 59 1933.
1:25,000 Sheets 3210-15, 3310-15, 3410-15, 3510-15, 3610-15, 3710-15.

For dates and sheet numbers of 1:25,000 Sheets see Compilation diagram.

Railway Classification from German 1:750,000 Railway Map 1935

Road Classification from G.S.G.S. 4346 B.Z. Auto-Karte 1:250,000

G.S.G.S. Nº 4416
Published by War Office 1944.
20/10/44/14 M.R.S./475

Revised, drawn and photolithographed at O.S. 1944.

OSNABRUCK 112

ITALY 1:250,000

NAPOLI
(NAPLES)

2nd. EDITION.
ARMY/AIR

SHEET 35

Geographical Section, General Staff, No. 4230.
Published by War Office 1943.
2nd. Edition 1943.
45,000/5/43. E.

L.M.T. 0 hrs. 56 mins. ahead of G.M.T.

Authorities
Carta Aeronautica D'Italia 1:250,000 Sheet 35. NAPOLI 1932.
Road classification derived from Italian Touring Club 1:200,000
Layers are based on G.S.G.S. 3982 Europe 1:250,000 Air Series.

Revised and Photolithographed by O.S. 1943.

REFERENCE

- Railway, normal gauge, double track with station
- " " " single " (Tunnel)
- " " " under construction
- " narrow gauge, Tramway and Funicular
- National Highways (Autostrade) 8 metres wide. Metalled.
- Main Roads (Strade Statali) with route numbers. Generally 6 metres wide or over. Metalled. (2-way M.T. — Nº 110)
- Other Main Roads (Strade di Grande Comunicazione) Generally 5 metres wide or over. Metalled. (Mostly 2-way M.T.; under cons.)
- Secondary Roads. 3-5 metres wide. Generally metalled. (1-way M.T.; under cons.)
- Other Roads and Cart Tracks. Generally unmetalled.
- Mule Tracks
- Paths
- Boundaries, State
- " Province
- Trigonometrical points, Heights in metres — △ ·220 or ·220
- Gradient Percentage shown on main roads thus — 0 to 4, 4 to 7, over 7
- Rivers, Water Mill
- Canals
- Irrigation Canals
- Salt Lakes
- Lakes
- Areas liable to floods
- Marshes
- Aqueducts
- Springs, Wells, Fountains
- Fords
- Sand, Sand Dunes
- Dry River Beds
- Church or Chapel
- Lighthouse
- Woods

Woods information is doubtful. Limits of Woods are not, as far as is known, well defined on the ground.

GRID CONVERGENCE VALUES AT SHEET CORNERS
S. Italy Zone. Grid (Blue)
C. 0°20'·92 W. C. 0°17'·29 E.
G.N. T.N.
Magnetic North
True North

At the West/East edge of this Sheet the Magnetic North is 3°39'/3°17' West of True North (1943).
Annual change 7' East.

Scale 1:250,000
1 Inch = 3·95 Miles. 1 Centimetre = 2·5 Kilometres

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
POINT CARINOLA — LETTER (R) M
East: Take West edge of square and read figure opposite this line on North or South margin or on the line itself. Estimate tenths eastwards — 9, 8, East 98
North: Take South edge of square and read figure opposite this line on East or West margin or on the line itself. Estimate tenths northwards — 8, 7, North 87
REFERENCE (R) M 9887
Unit...metre Square...10,000 Reference to nearest 1,000
Nearest similar reference distant ..... 500 Km.

SOUTH ITALY ZONE. GRID (Blue)
Projection of Grid: Lambert Conical Orthomorphic
Spheroid: Bessel
Origin: 39° 30' N., 14° E. of Greenwich
False Co-ordinates of Origin: 700,000 m. E., 600,000 m. N.

INDEX TO ADJOINING SHEETS
ROMA SHEET 28. | CHIETI SHEET 29. | S. SEVERO SHEET 30.
FROSINONE SHEET 34. | NAPOLI SHEET 35. | BENEVENTO SHEET 36.
SALERNO SHEET 41.

HEIGHTS IN METRES

Certain main spot heights are indicated by a white tab to improve legibility.

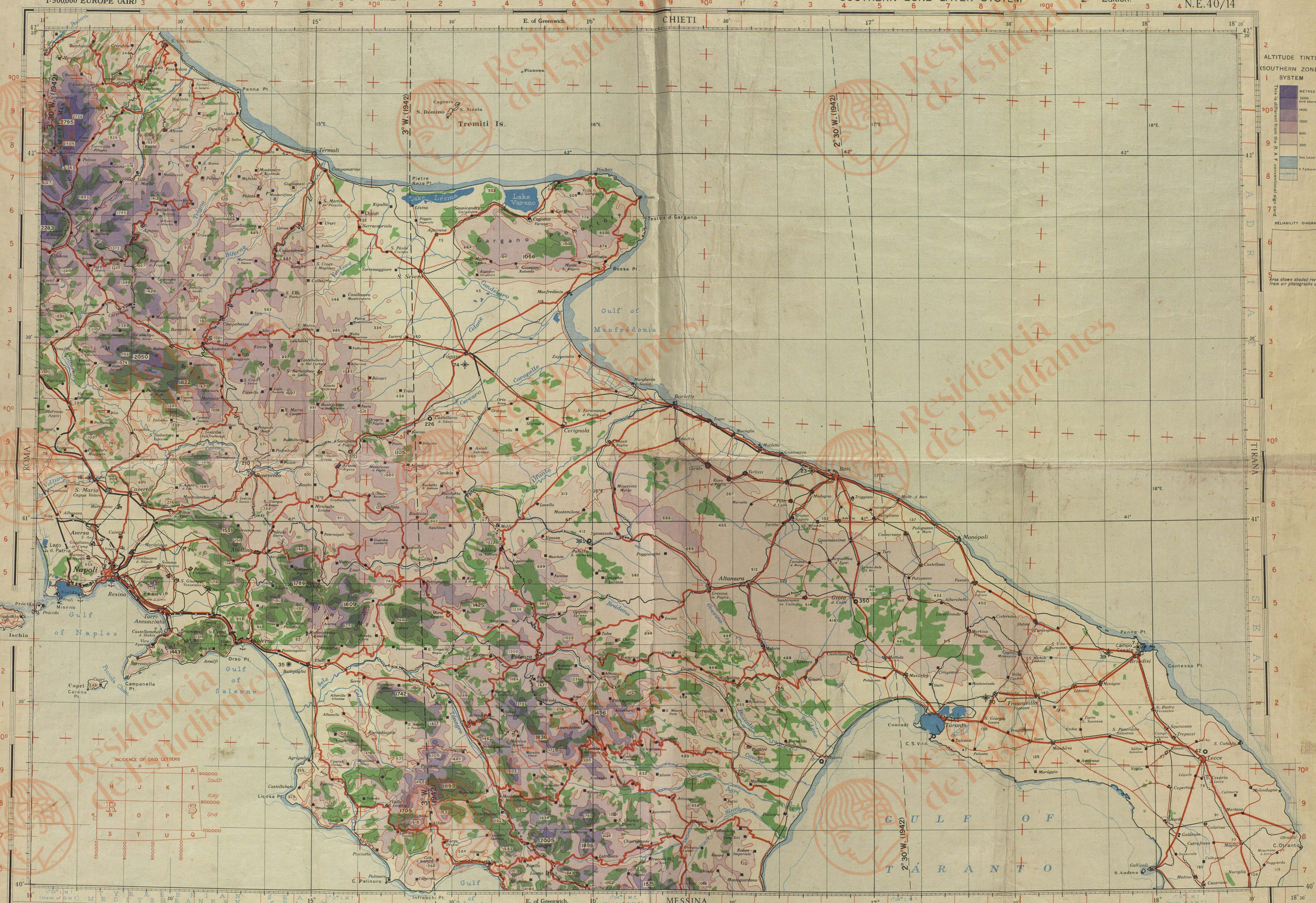
Miles 5 4 3 2 1 0 5 10 15 20 25 30 35 40 45 Miles
Kilometres 10 9 8 7 6 5 4 3 2 1 0 10 20 30 40 50 60 70 Kilometres
Nautical Miles 5 4 3 2 1 0 5 10 15 20 25 30 35 Nautical Miles

WAR OFFICE

1:500,000 EUROPE (AIR) HEIGHTS IN METRES

NÁPOLI

SOUTHERN ZONE LAYER SYSTEM 2nd Edition. N.E.40/14



GRID REFERENCE

Grid references are given in kilometres east and north of the south-west corner of the lettered square concerned. Thus the grid reference of AVIGLIANO is R (0) 4538.
The grid shown on this sheet is the SOUTH ITALY GRID. (BLUE)

REFER TO THIS MAP AS:
1:250,000 ITALY SHEET 30 S. SEVERO

M.D.R. 300/9514

ITALY 1:250,000 NOT TO BE PUBLISHED S. SEVERO

1st. EDITION. ARMY/AIR

SHEET 30

14°30′ 14°45′ East of Greenwich 15°00′ 15°15′

740,000 m.E. 810,000 m.E.

950,000 m.N.

42° 30′ 42° 15′ 42° 00′ 41° 45′

(R)C (R)D

(R)C (R)D
(R)H (R)J

15° E. of Greenwich

Geographical Section, General Staff, No. 4230.

L.M.T. 1 hr. 0 mins. ahead of G.M.T.

Reproduced by 512 Fd. Survey Coy., R.E., June, 1943, from W.O. Kodalines 1st Edition. 1943. Reprinted by 17 Map Repro. Sec., R.E. Sept. 1943. Army/Air.

Authorities
Carta D'Italia Del Touring Club Italiano 1:250,000. Sheet 30. S. SEVERO 1935.
Road classification derived from Italian Touring Club 1:200,000.
Layers are based on G.S.G.S. 3982 Europe 1:250,000 Air Series.

REFER TO THIS MAP AS:
1:250,000 ITALY SHEET 30 S. SEVERO

M.D.R. 300/9514

REFERENCE

- Railway, normal gauge, double track with station
- " " single (Tunnel)
- " " under construction
- " narrow gauge. Tramway and Funicular
- National Highways (Autostrade)* 8 metres wide. Metalled.
- Main Roads (Strade Statali) with route numbers. Generally 6 metres wide or over. Metalled. — 2-way M.T. — N° 110
- Other Main Roads (Strade di Grande Comunicazione) Generally 5 metres wide or over. Metalled. — Mostly 2-way M.T. — under cons.
- Secondary Roads. 3-5 metres wide. Generally metalled. — 1-way M.T. — under cons.
- Other Roads and Cart Tracks. Generally unmetalled.
- Mule Tracks
- Paths
- Boundaries, State
- " Province
- Trigonometrical points. Heights in metres — △ ·220 or ·220
- Gradient Percentage shown on main roads thus — 0 to 4, 4 to 7, over 7
- Rivers, Water Mill
- Canals
- Irrigation Canals
- Salt Lakes
- Lakes
- Areas liable to floods
- Marshes
- Aqueducts
- Springs. Wells. Fountains
- Fords
- Sand. Sand Dunes
- Dry River Beds
- Church or Chapel
- Lighthouse
- Woods

Woods information is doubtful. Limits of Woods are not, as far as is known, well defined on the ground.

True North — Magnetic North

At the West/East edge of this Sheet the Magnetic North is 3° 18′ / 2° 57′ West of True North (1943).
Annual change 7′ East.

GRID CONVERGENCE VALUES AT SHEET CORNERS
S. Italy Zone. Grid (Blue)

C. 0° 17′ 25 E. C. 0° 55′ 41 E.
G.N. T.N.
C. 0° 17′ 25 E. C. 0° 55′ 41 E.

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
POINT PALATA LETTER (R)H

East	North
Take West edge of square and read figure opposite this line on North or South margin or on the line itself. Estimate tenths eastwards 5	Take South edge of square and read figure opposite this line on East or West margin or on the line itself. Estimate tenths northwards 6
East 65	North 66

REFERENCE (R)H 6566

Unit... metre Square... 10,000 Reference to nearest 1,000
Nearest similar reference distant 500 Kms.

SOUTH ITALY ZONE GRID (Blue)
Projection of Grid Lambert Conical Orthomorphic
Spheroid Bessel
Origin 39° 30′ N., 14° E. of Greenwich
False Co-ordinates of Origin 700,000 m.E., 600,000 m.N.

NO AIR INFORMATION AVAILABLE FOR THIS SHEET (JUNE 1943).

Certain main spot heights are indicated by a white tab to improve legibility.

HEIGHTS IN METRES

METRES 1500 1000 700 500 300 200 100 0

CONVERSION TABLE
Metres Feet
4,500 15,000 4,000 13,000 12,000 11,000 3,000 10,000 9,000 8,000 7,000 2,000 6,000 5,000 4,000 1,000 3,000 2,000 1,000 0

INDEX TO ADJOINING SHEETS

Scale 1:250,000
1 Inch = 3·95 Miles. 1 Centimetre = 2·5 Kilometres

Miles 5 4 3 2 1 0 5 10 15 20 25 30 35 40 Miles
Kilometres 10 9 8 7 6 5 4 3 2 1 0 10 20 30 40 50 60 Kilometres
Nautical Miles 5 4 3 2 1 0 5 10 15 20 25 30 Nautical Miles