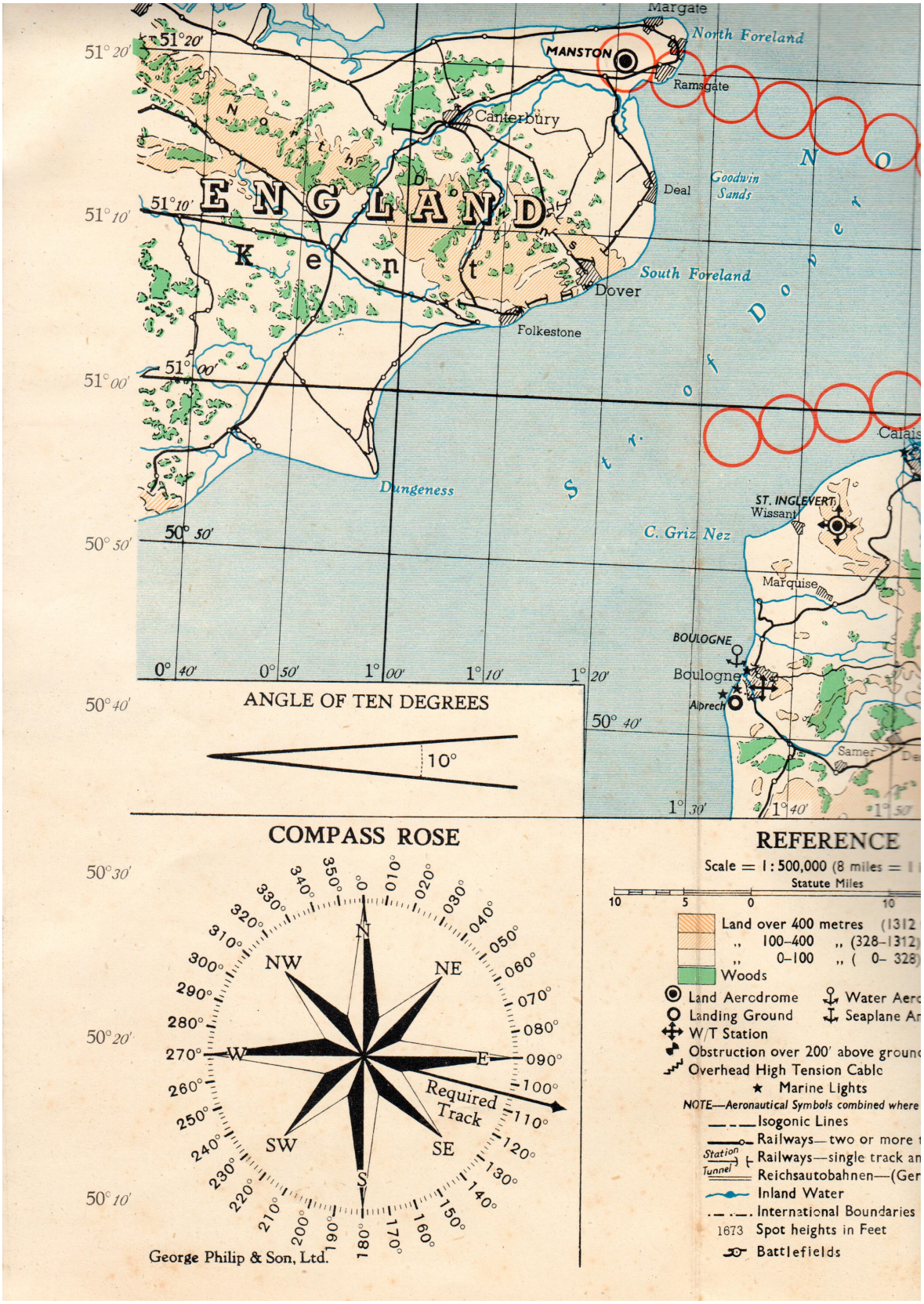
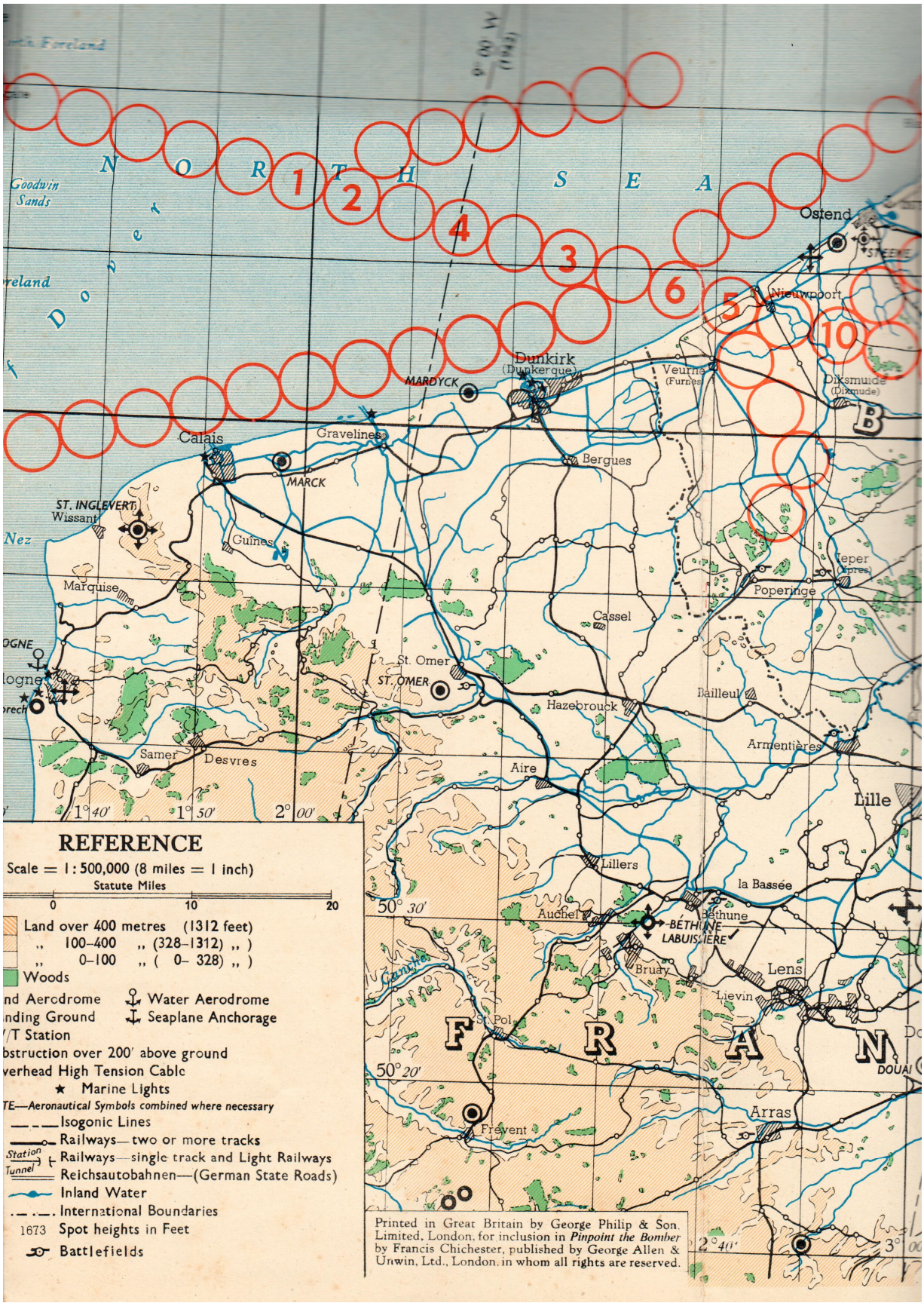

Margate
North Foreland
MANSTON
Ramsgate
Canterbury
ENGLAND
Kent
Deal
Goodwin Sands
South Foreland
Dover
Folkestone
Dungeness
Calais
ST. INGLEVERT
Wissant
C. Griz Nez
Marquise
BOULOGNE
Boulogne
Alprech
Samer
51° 20′
51° 10′
51° 00′
50° 50′
50° 40′
50° 30′
50° 20′
50° 10′
0° 40′
0° 50′
1° 00′
1° 10′
1° 20′
1° 30′
1° 40′
ANGLE OF TEN DEGREES
10°
COMPASS ROSE
N
NE
E
SE
S
SW
W
NW
Required Track
George Philip & Son, Ltd.
REFERENCE
Scale = 1 : 500,000 (8 miles =
Statute Miles
10 5 0 10
Land over 400 metres (1312
,, 100–400 ,, (328–1312)
,, 0–100 ,, (0– 328)
Woods
Land Aerodrome
Landing Ground
W/T Station
Obstruction over 200′ above ground
Overhead High Tension Cable
Marine Lights
NOTE—Aeronautical Symbols combined where
Isogonic Lines
Railways—two or more
Railways—single track an
Reichsautobahnen—(Ger
Inland Water
International Boundaries
1673 Spot heights in Feet
Battlefields


NORTH SEA
Goodwin Sands
Dover
Ostend
Nieuwpoort
Dunkirk
(Dunkerque)
MARDYCK
Veurne
(Furnes)
Diksmuide
(Dixmude)
Calais
Gravelines
MARCK
Bergues
ST. INGLEVERT
Wissant
Guines
Marquise
Nez
Ypres
Poperinge
Cassel
St. Omer
ST. OMER
Hazebrouck
Bailleul
Armentières
Samer
Desvres
Aire
Lille
Lillers
la Bassée
Auchel
Béthune
BÉTHUNE
LABUISSIÈRE
Bruay
Lens
Lievin
St. Pol
FRANCE
DOUAI
Arras
Frevent
1° 40'
1° 50'
2° 00'
50° 30'
50° 20'
2° 40'
3°
REFERENCE
Scale = 1:500,000 (8 miles = 1 inch)
Statute Miles
0
10
20
Land over 400 metres (1312 feet)
,, 100–400 ,, (328–1312) ,,)
,, 0–100 ,, (0– 328) ,,)
Woods
nd Aerodrome
nding Ground
/T Station
bstruction over 200' above ground
verhead High Tension Cable
Water Aerodrome
Seaplane Anchorage
★ Marine Lights
TE—Aeronautical Symbols combined where necessary
Isogonic Lines
Railways—two or more tracks
Station
Tunnel
Railways—single track and Light Railways
Reichsautobahnen—(German State Roads)
Inland Water
International Boundaries
1673 Spot heights in Feet
Battlefields
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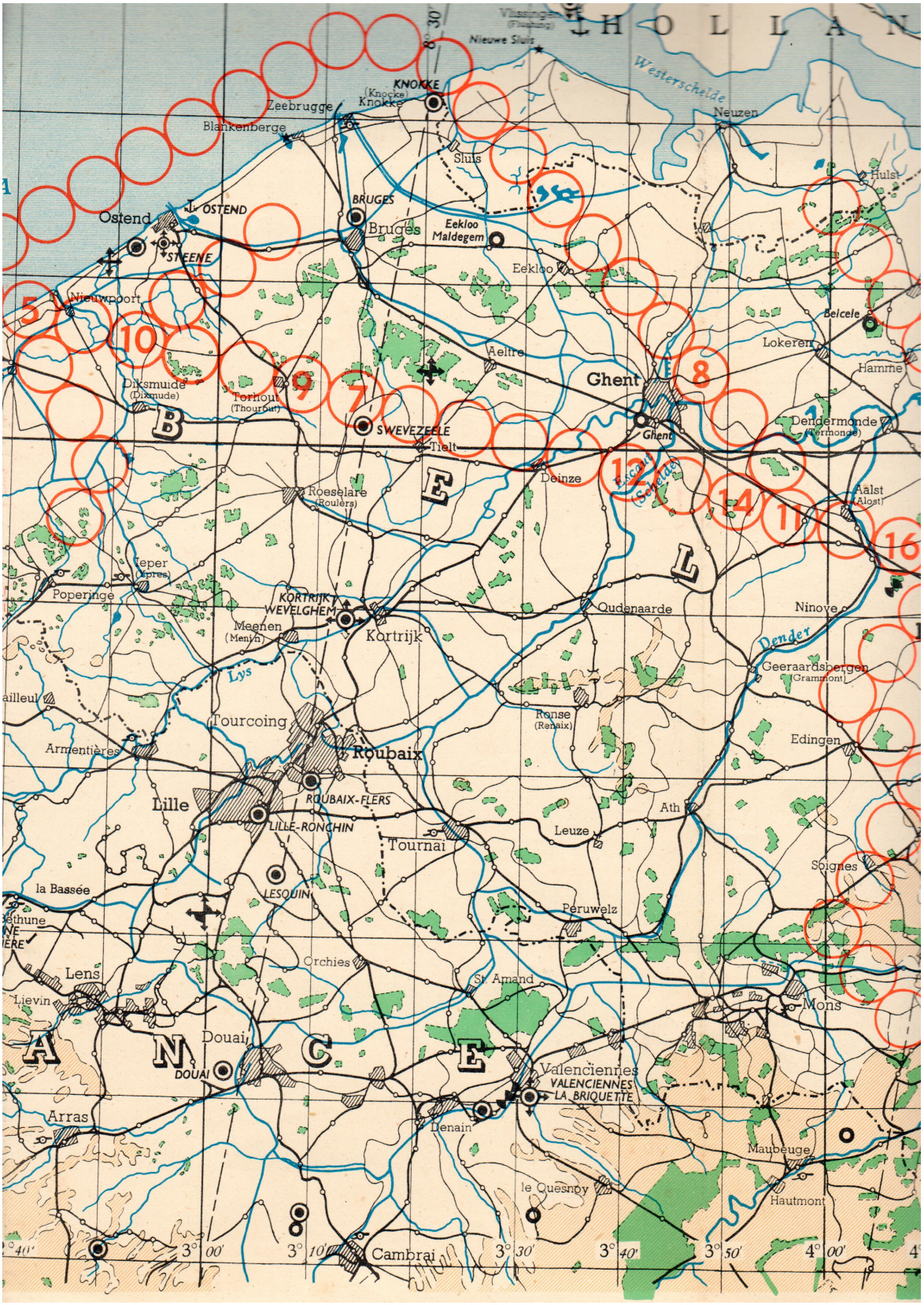
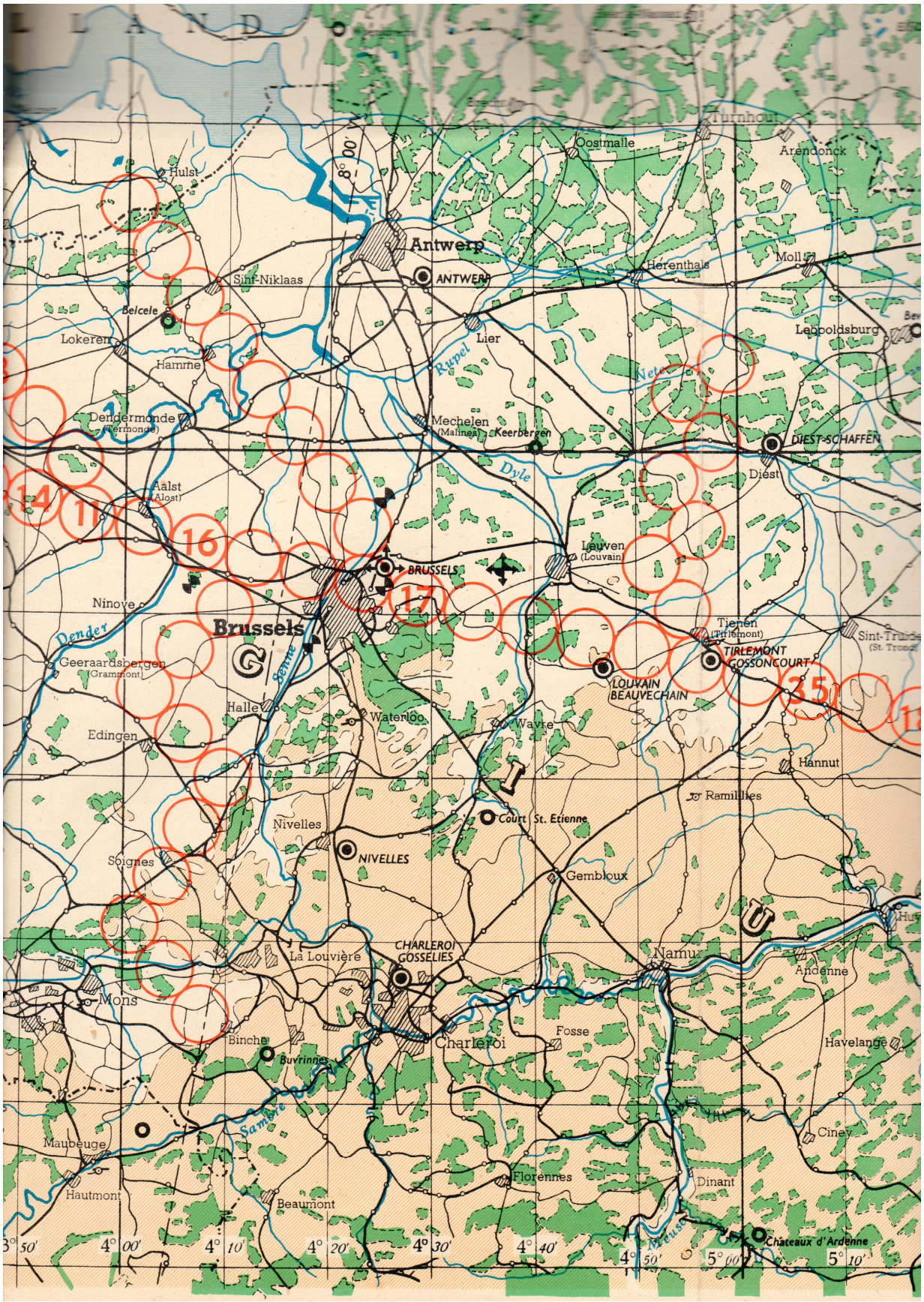
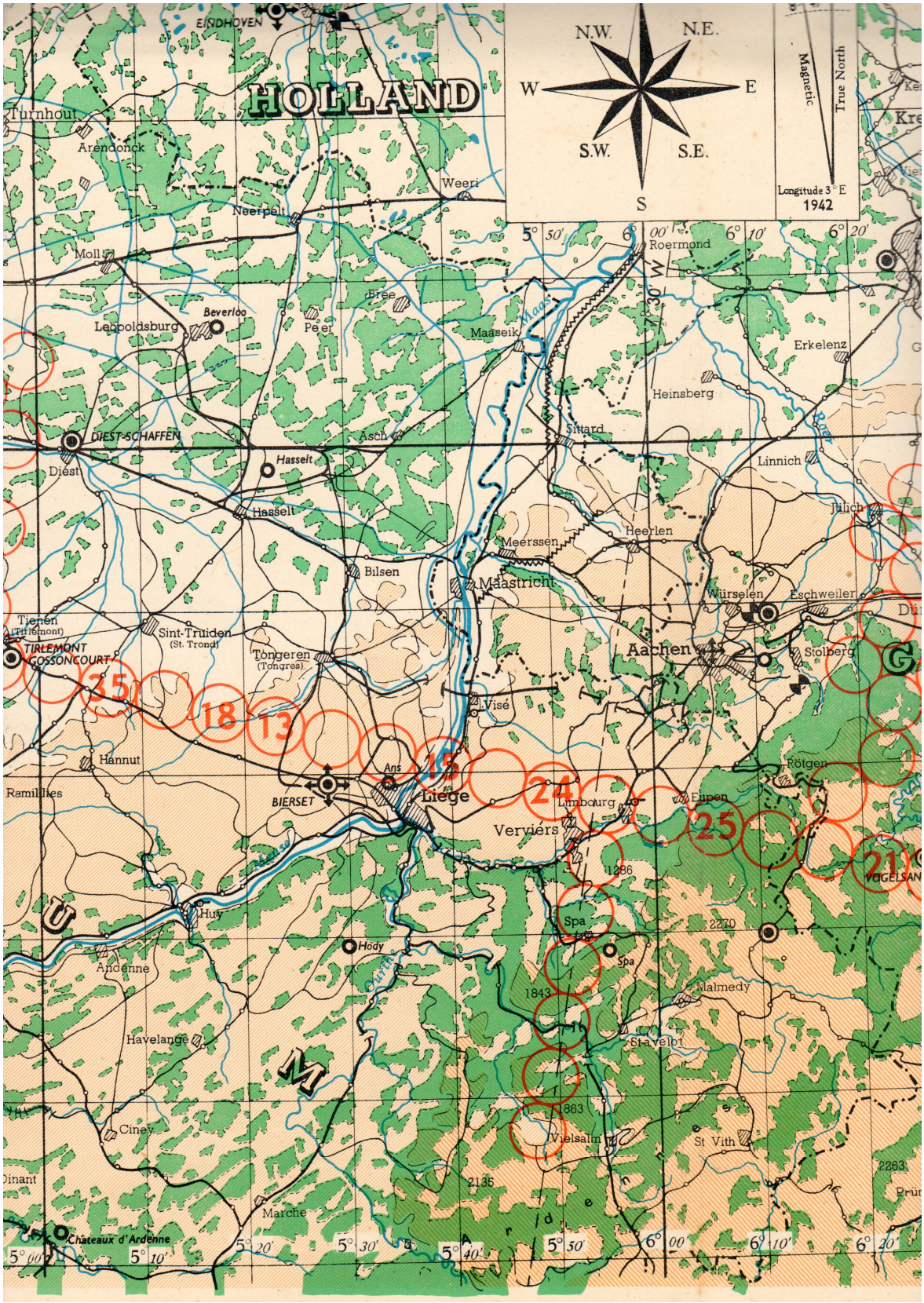
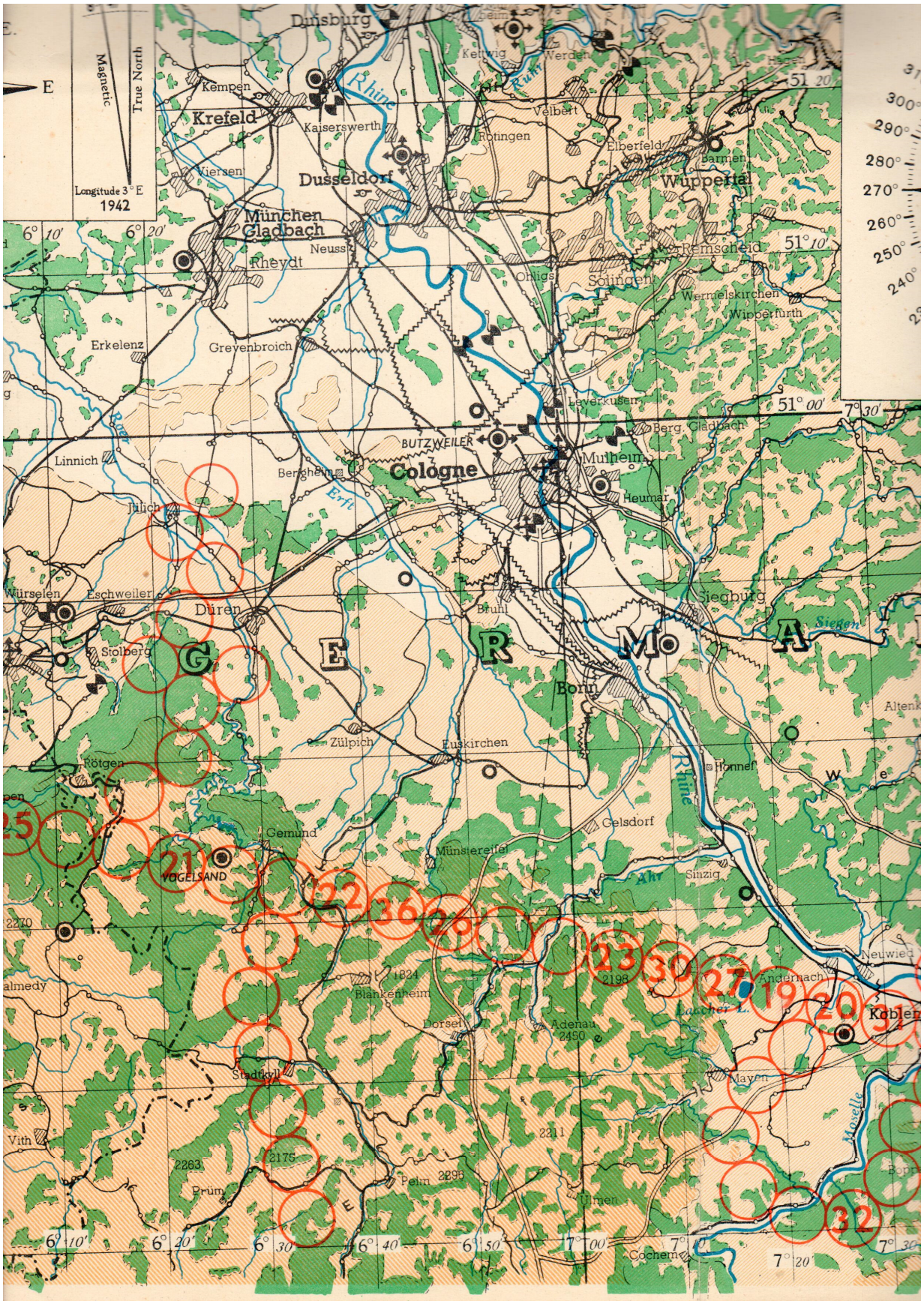

HOLLAND
Vlissingen (Flushing)
Nieuwe Sluis
Westerschelde
KNOKKE
(Knocke)
Knokke
Zeebrugge
Blankenberge
Sluis
Neuzen
Hulst
OSTEND
Ostend
BRUGES
Bruges
Eekloo
Maldegem
Eekloo
STEENE
Nieuwpoort
Belcele
Lokeren
Aeltre
Hamme
Ghent
Diksmuide
(Dixmude)
Torhout
(Thourout)
SWEVEZEELE
Thielt
Ghent
Dendermonde
(Termonde)
Deinze
Escaut
(Schelde)
Roeselare
(Roulers)
Aalst
(Alost)
Ieper
(Ypres)
Poperinge
KORTRIJK
WEVELGHEM
Meenen
(Menin)
Kortrijk
Oudenaarde
Ninove
Dender
Lys
Geeraardsbergen
(Grammont)
Tourcoing
Ronse
(Renaix)
Armentières
Roubaix
Edingen
Lille
ROUBAIX-FLERS
LILLE-RONCHIN
Ath
Tournai
Leuze
Soignes
la Bassée
LESQUIN
Peruwelz
Orchies
Lens
Liévin
St. Amand
Mons
Douai
DOUAI
Valenciennes
VALENCIENNES
LA BRIQUETTE
Arras
Denain
Maubeuge
le Quesnoy
Hautmont
Cambrai
3° 00'
3° 10'
3° 30'
3° 40'
3° 50'
4° 00'


Turnhout
Oostmalle
Arendonck
Hulst
Antwerp
ANTWERP
Herenthals
Moll
Sint-Niklaas
Belcele
Lokeren
Lier
Leopoldsburg
Hamme
Rupel
Nete
Dendermonde
(Termonde)
Mechelen
(Malines)
Keerbergen
DIEST-SCHAFFEN
Diest
Dyle
Aalst
(Alost)
14
11
16
Leuven
(Louvain)
BRUSSELS
17
Ninove
Brussels
Tienen
(Tirlemont)
Sint-Truiden
(St. Trond)
Dender
Senne
Geeraardsbergen
(Grammont)
TIRLEMONT
GOSSONCOURT
LOUVAIN
BEAUVECHAIN
35
Halle
Waterloo
Wavre
Edingen
Hannut
Ramillies
Court St. Etienne
Nivelles
NIVELLES
Soignes
Gembloux
CHARLEROI
GOSSELIES
La Louvière
Namur
Andenne
Mons
Binche
Fosse
Charleroi
Havelange
Buvrinnes
Sambre
Ciney
Maubeuge
Florennes
Dinant
Hautmont
Beaumont
Meuse
Châteaux d'Ardenne
3° 50′
4° 00′
4° 10′
4° 20′
4° 30′
4° 40′
4° 50′
5° 00′
5° 10′


HOLLAND
EINDHOVEN
Turnhout
Arendonck
Weert
Neerpelt
Roermond
Beverloo
Leopoldsburg
Peer
Bree
Maaseik
Erkelenz
Heinsberg
DIEST-SCHAFFEN
Diest
Asch
Hasselt
Sittard
Linnich
Julich
Heerlen
Meerssen
Bilsen
Maastricht
Würselen
Eschweiler
Aachen
Stolberg
Tienen
(Tirlemont)
TIRLEMONT
GOSSONCOURT
Sint-Truiden
(St. Trond)
Tongeren
(Tongres)
Visé
Hannut
Ramillies
Ans
BIERSET
Liege
Limbourg
Eupen
Verviers
Rötgen
Huy
Hody
Spa
Andenne
Malmedy
Havelange
St-avelot
Ciney
Vielsalm
St Vith
Dinant
Marche
Chateaux d'Ardenne
N.W.
N.E.
W
E
S.W.
S.E.
S
Magnetic
True North
Longitude 3° E
1942


Magnetic
True North
Longitude 3° E
1942
Dinsburg
Kempen
Krefeld
Kaiserswerth
Rhine
Kettwig
Werden
Ruhr
Velbert
Rotingen
Elberfeld
Barmen
Wuppertal
Viersen
Dusseldorf
München
Gladbach
Neuss
Rheydt
Remscheid
Ohligs
Solingen
Wermelskirchen
Wipperfurth
Erkelenz
Grevenbroich
Leverkusen
Berg. Gladbach
BUTZWEILER
Mulheim
Linnich
Bergheim
Cologne
Erft
Heumar
Jülich
Würselen
Eschweiler
Düren
Bruhl
Siegburg
Siegen
Stolberg
G
E
R
M
A
Bonn
Altenk
Zülpich
Euskirchen
Rötgen
Honnef
Gelsdorf
Gemund
Münstereifel
VOGELSAND
Ahr
Sinzig
Neuwied
Andernach
Blankenheim
Dorsel
Adenau
Koblenz
Stadtkyll
Mayen
Vith
Prüm
Pelm
Ulmen
Cochem
Moselle
25
21
22
36
26
23
30
27
19
20
31
32
6° 10'
6° 20'
6° 30'
6° 40'
6° 50'
7° 00'
7° 20'
7° 30'
51° 10'
51° 00'
300°
290°
280°
270°
260°
250°
240°

N
NE
E
SE
S
SW
W
NW
Hagen
Barmen
Wipperfürth
Siegburg
Siegen
Waldbröl
Betzdorf
Altenkirchen
Hachenburg
Honnef
Westerburg
Hadamar
Neuwied
Bendorf
Andernach
Koblenz
Ehrenbreitstein
Limburg
Bad Ems
Mayen
Obr. Lahnstein
Boppard
Bad Schwalbach
Moselle
TARGET
51° 20′
51° 10′
51° 00′
50° 50′
50° 40′
50° 30′
50° 20′
50° 10′
7° 20′
7° 30′
7° 40′
7° 50′
8° 00′
2145
1679
1791
1804
The London Geographical Institute