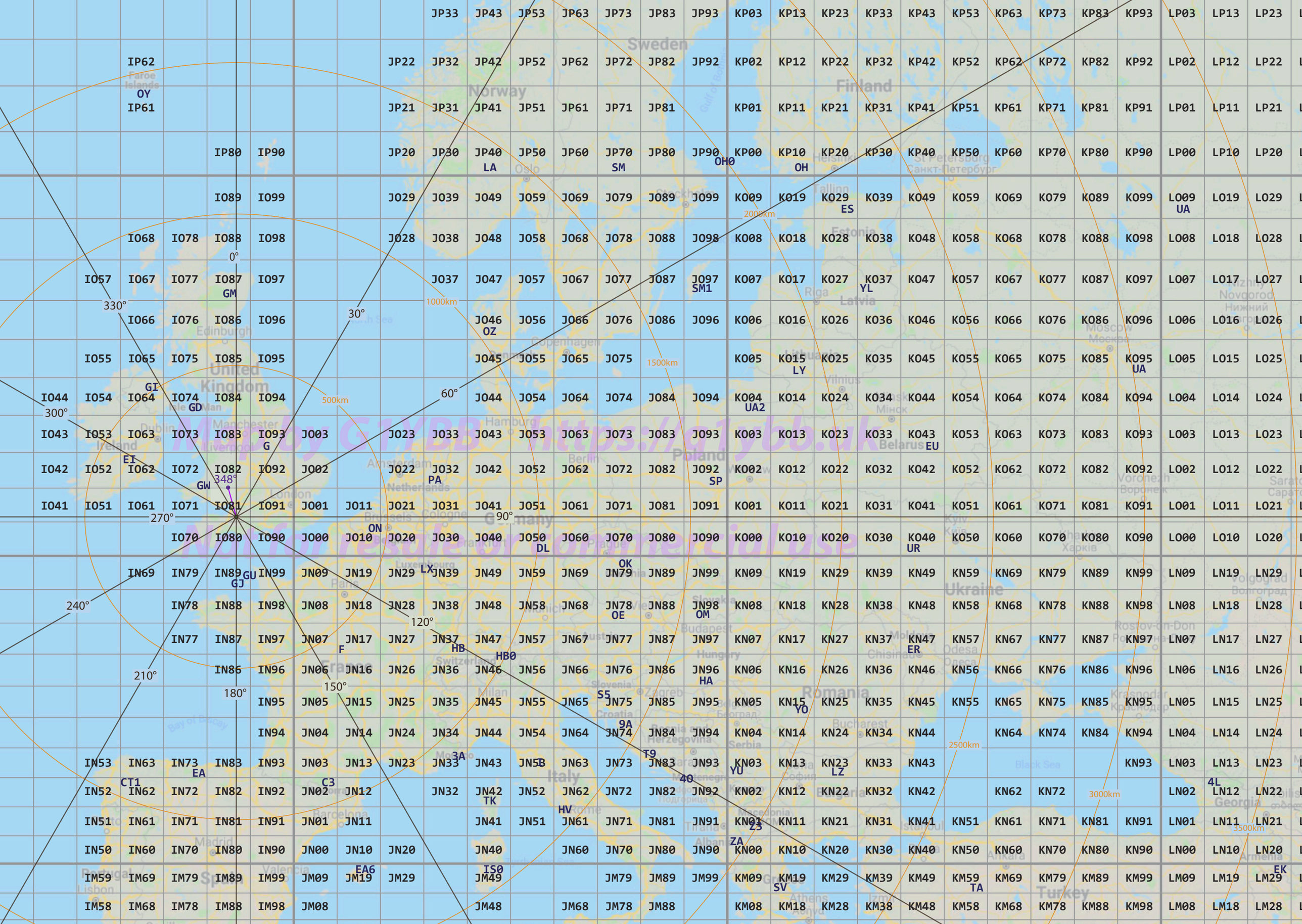
JP33 JP43 JP53 JP63 JP73 JP83 JP93 KP03 KP13 KP23 KP33 KP43 KP53 KP63 KP73 KP83 KP93 LP03 LP13 LP23
IP62 JP22 JP32 JP42 JP52 JP62 JP72 JP82 JP92 KP02 KP12 KP22 KP32 KP42 KP52 KP62 KP72 KP82 KP92 LP02 LP12 LP22
OY
IP61 JP21 JP31 JP41 JP51 JP61 JP71 JP81 KP01 KP11 KP21 KP31 KP41 KP51 KP61 KP71 KP81 KP91 LP01 LP11 LP21
IP80 IP90 JP20 JP30 JP40 JP50 JP60 JP70 JP80 JP90 KP00 KP10 KP20 KP30 KP40 KP50 KP60 KP70 KP80 KP90 LP00 LP10 LP20
LA SM OH0 OH
IO89 IO99 JO29 JO39 JO49 JO59 JO69 JO79 JO89 JO99 KO09 KO019 KO029 KO039 KO049 KO059 KO069 KO079 KO089 KO099 LO009 LO019 LO029
ES UA
IO68 IO78 IO88 IO98 JO28 JO38 JO48 JO58 JO68 JO78 JO88 JO98 KO008 KO018 KO028 KO038 KO048 KO058 KO068 KO078 KO088 KO098 LO008 LO018 LO028
0°
IO57 IO67 IO77 IO87 IO97 JO37 JO47 JO57 JO67 JO77 JO87 JO97 KO007 KO017 KO027 KO037 KO047 KO057 KO067 KO077 KO087 KO097 LO007 LO017 LO027
GM SM1 YL
330° 30° 1000km
IO66 IO76 IO86 IO96 JO46 JO56 JO66 JO76 JO86 JO96 KO006 KO016 KO026 KO036 KO046 KO056 KO066 KO076 KO086 KO096 LO006 LO016 LO026
OZ
IO55 IO65 IO75 IO85 IO95 JO45 JO55 JO65 JO75 1500km KO005 KO015 KO025 KO035 KO045 KO055 KO065 KO075 KO085 KO095 LO005 LO015 LO025
LY UA
GI
IO44 IO54 IO64 IO74 IO84 IO94 500km 60° JO44 JO54 JO64 JO74 JO84 JO94 KO004 KO014 KO024 KO034 KO044 KO054 KO064 KO074 KO084 KO094 LO004 LO014 LO024
300° GD UA2
IO43 IO53 IO63 IO73 IO83 IO93 JO03 JO23 JO33 JO43 JO53 JO63 JO73 JO83 JO93 KO003 KO013 KO023 KO033 KO043 KO053 KO063 KO073 KO083 KO093 LO003 LO013 LO023
G EU
EI
IO42 IO52 IO62 IO72 IO82 IO92 JO02 JO22 JO32 JO42 JO52 JO62 JO72 JO82 JO92 KO002 KO012 KO022 KO032 KO042 KO052 KO062 KO072 KO082 KO092 LO002 LO012 LO022
GW 348° PA SP
IO41 IO51 IO61 IO71 IO81 IO91 JO01 JO11 JO21 JO31 JO41 JO51 JO61 JO71 JO81 JO91 KO001 KO011 KO021 KO031 KO041 KO051 KO061 KO071 KO081 KO091 LO001 LO011 LO021
270° 90°
ON
IO70 IO80 IO90 JO00 JO10 JO20 JO30 JO40 JO50 JO60 JO70 JO80 JO90 KO000 KO010 KO020 KO030 KO040 KO050 KO060 KO070 KO080 KO090 LO000 LO010 LO020
DL UR
OK
IN69 IN79 IN89 IN99 JN09 JN19 JN29 JN39 JN49 JN59 JN69 JN79 JN89 JN99 KN09 KN19 KN29 KN39 KN49 KN59 KN69 KN79 KN89 KN99 LN09 LN19 LN29
GU GJ LX
240° 120°
IN78 IN88 IN98 JN08 JN18 JN28 JN38 JN48 JN58 JN68 JN78 JN88 JN98 KN08 KN18 KN28 KN38 KN48 KN58 KN68 KN78 KN88 KN98 LN08 LN18 LN28
OE OM
IN77 IN87 IN97 JN07 JN17 JN27 JN37 JN47 JN57 JN67 JN77 JN87 JN97 KN07 KN17 KN27 KN37 KN47 KN57 KN67 KN77 KN87 KN97 LN07 LN17 LN27
F HB HB0 ER
210° 180° 150°
IN86 IN96 JN06 JN16 JN26 JN36 JN46 JN56 JN66 JN76 JN86 JN96 KN06 KN16 KN26 KN36 KN46 KN56 KN66 KN76 KN86 KN96 LN06 LN16 LN26
HA
IN95 JN05 JN15 JN25 JN35 JN45 JN55 JN65 JN75 JN85 JN95 KN05 KN15 KN25 KN35 KN45 KN55 KN65 KN75 KN85 KN95 LN05 LN15 LN25
S5 YO
IN94 JN04 JN14 JN24 JN34 JN44 JN54 JN64 JN74 JN84 JN94 KN04 KN14 KN24 KN34 KN44 KN64 KN74 KN84 KN94 LN04 LN14 LN24
9A 2500km
IN53 IN63 IN73 IN83 IN93 JN03 JN13 JN23 JN33 JN43 JN53 JN63 JN73 JN83 JN93 KN03 KN13 KN23 KN33 KN43 KN93 LN03 LN13 LN23
3A T9 YU LZ
EA
CT1 C3 4O 4L
IN52 IN62 IN72 IN82 IN92 JN02 JN12 JN32 JN42 JN52 JN62 JN72 JN82 JN92 KN02 KN12 KN22 KN32 KN42 KN62 KN72 3000km LN02 LN12 LN22
TK HV
IN51 IN61 IN71 IN81 IN91 JN01 JN11 JN41 JN51 JN61 JN71 JN81 JN91 KN01 KN11 KN21 KN31 KN41 KN51 KN61 KN71 KN81 KN91 LN01 LN11 LN21
Z3 3500km
ZA
IN50 IN60 IN70 IN80 IN90 JN00 JN10 JN20 JN40 JN60 JN70 JN80 JN90 KN00 KN10 KN20 KN30 KN40 KN50 KN60 KN70 KN80 KN90 LN00 LN10 LN20
EA6 IS0 EK
IM59 IM69 IM79 IM89 IM99 JM09 JM19 JM29 JM49 JM79 JM89 JM99 KM09 KM19 KM29 KM39 KM49 KM59 KM69 KM79 KM89 KM99 LM09 LM19 LM29
SV TA
IM58 IM68 IM78 IM88 IM98 JM08 JM48 JM68 JM78 JM88 KM08 KM18 KM28 KM38 KM48 KM58 KM68 KM78 KM88 KM98 LM08 LM18 LM28
Sweden
Norway
Finland
Estonia
Latvia
Lithuania
Belarus
Poland
Ukraine
Romania
Moldova
Slovakia
Hungary
Austria
Slovenia
Croatia
Serbia
Bulgaria
Italy
France
Spain
Portugal
Turkey
Georgia
Armenia
Ireland
United Kingdom
Faroe Islands
Isle of Man
Netherlands
Belgium
Luxembourg
Switzerland
Denmark
Oslo
Stockholm
Helsinki
Tallinn
Riga
Vilnius
Minsk
Moscow
St Petersburg
Kyiv
Edinburgh
Manchester
Liverpool
Dublin
London
Amsterdam
Hamburg
Berlin
Copenhagen
Brussels
Cologne
Frankfurt
Paris
Prague
Vienna
Budapest
Milan
Zagreb
Rome
Barcelona
Madrid
Lisbon
Valencia
Athens
Istanbul
Ankara
Bucharest
Sofia
Black Sea
Mediterranean Sea
Bay of Biscay
Gulf of Bothnia
Gulf of Finland
Baltic Sea
Kharkiv
Volgograd
Rostov-on-Don
Krasnodar
Nizhny Novgorod
Voronezh
Saratov
Kazan
Yekaterinburg
Samara
Perm
Ufa
Chelyabinsk
Omsk
Tyumen
Kirov
Vologda
Murmansk
Arkhangelsk
Petrozavodsk
Yaroslavl
Kostroma
Ivanovo
Tver
Smolensk
Bryansk
Kursk
Belgorod
Voronezh
Tambov
Penza
Saratov
Volgograd
Astrakhan
Kazan
Ufa
Perm
Yekaterinburg
Chelyabinsk
Omsk
Tyumen
Kirov
Vologda
Murmansk
Arkhangelsk
Petrozavodsk
Yaroslavl
Kostroma
Ivanovo
Tver
Smolensk
Bryansk
Kursk
Belgorod
Tambov
Penza
Astrakhan
Kaliningrad
Gdańsk
Warszawa
Kraków
Wrocław
Poznań
Łódź
Lublin
Rzeszów
Katowice
Bratislava
Budapest
Debrecen
Szeged
Pécs
Miskolc
Sarajevo
Podgorica
Tirana
Skopje
Sofia
Plovdiv
Varna
Bucharest
Cluj-Napoca
Iași
Constanța
Craiova
Timișoara
Brașov
Chișinău
Odesa
Kyiv
Lviv
Kharkiv
Dnipro
Donetsk
Luhansk
Simferopol
Sevastopol
Yerevan
Tbilisi
Baku
Ankara
Istanbul
Izmir
Antalya
Adana
Konya
Samsun
Trabzon
Erzurum
Diyarbakır
Gaziantep
Kayseri
Eskişehir
Bursa
Edirne
Kars
Van
Mardin
Batman
Malatya
Sivas
Tokat
Zonguldak
Bandırma
Çanakkale
Denizli
Afyonkarahisar
Kütahya
Bolu
Düzce
Sakarya
Kocaeli
Yalova
Bilecik
Tekirdağ
Kırklareli
Edirne
Samsun
Giresun
Ordu
Rize
Artvin
Ardahan
Iğdır
Bitlis
Hakkari
Şırnak
Siirt
Muş
Bingöl
Tunceli
Erzincan
Bayburt
Gümüşhane
Karaman
Mersin
Hatay
Osmaniye
Kahramanmaraş
Adıyaman
Şanlıurfa
Kilis
Antakya
Nicosia
Limassol
Larnaca
Paphos
Famagusta
Kyrenia
Beirut
Damascus
Aleppo
Homs
Hama
Latakia
Tartous
Amman
Jerusalem
Tel Aviv
Haifa
Cairo
Alexandria
Tripoli
Benghazi
Misrata
Algiers
Oran
Tunis
Sfax
Rabat
Casablanca
Fez
Marrakech
Tangier
Agadir
Dakar
Bamako
Abidjan
Accra
Lagos
Abuja
Kano
Ibadan
Port Harcourt
Kinshasa
Brazzaville
Luanda
Nairobi
Addis Ababa
Mogadishu
Khartoum
Juba
Dar es Salaam
Kampala
Kigali
Bujumbura
Lusaka
Harare
Maputo
Windhoek
Gaborone
Pretoria
Johannesburg
Cape Town
Durban
Port Elizabeth
Bloemfontein
Kimberley
Upington
Mbabane
Maseru
Antananarivo
Toamasina
Mahajanga
Antsiranana
Toliara
Fianarantsoe
Port Louis
Mamoutzou
Saint-Denis
Saint-Pierre
Nouakchott
Nouadhibou
Tiznit
Laayoune
Dakhla
Bissau
Conakry
Freetown
Monrovia
Abidjan
Yamoussoukro
Bouaké
Accra
Kumasi
Tamale
Lomé
Cotonou
Porto-Novo
Abuja
Lagos
Ibadan
Kano
Maiduguri
Port Harcourt
Calabar
Enugu
Onitsha
Yaoundé
Douala
Bamenda
Bafoussam
Ngaoundéré
Garoua
Maroua
Bangui
Brazzaville
Pointe-Noire
Libreville
Port-Gentil
Malabo
Bata
Luanda
Lubango
Benguela
Huambo
Kinshasa
Lubumbashi
Kisangani
Bukavu
Goma
Kananga
Mbandaka
Bangui
Nairobi
Mombasa
Kisumu
Addis Ababa
Dire Dawa
Mogadishu
Hargeisa
Bosaso
Khartoum
Port Sudan
Kassala
Juba
Wau
Malakal
Dar es Salaam
Dodoma
Mwanza
Arusha
Tanga
Kampala
Gulu
Mbarara
Kigali
Bujumbura
Lusaka
Ndola
Harare
Bulawayo
Mutare
Gweru
Maputo
Beira
Nampula
Tete
Quelimane
Windhoek
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