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QTH-Locator

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Version vom 26. September 2009, 11:00

Uhr (Quelltext anzeigen)

[Oe1mcu](#) ([Diskussion](#) | [Beiträge](#))

([→Beschreibung des Systems](#))

[← Zum vorherigen Versionsunterschied](#)

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Zeile 22:

[[Image:Grid-locator.jpg|200px|left]]

Das erste Nummernpaar, genannt Square folgt dem ersten Buchstabenpaar und nutzt eine 10er Nummernbasis

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The first pair of numbers, called a "square" and placed after the first pair of letters, uses a base number of 10, and is encoded using the digits "0" to "9". This is where the alternative name "grid squares" comes from. Each of these squares represents 1° of latitude by 2° of longitude.

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For additional precision, each square can optionally be sub-divided further, into "subsquares". These are encoded into a second pair of letters, often (but not always) presented in lowercase, and

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Maidenhead Locator werden werden landläufig als *grid locators* = *Gitter Position* oder *grid squares* = *Gitterfelder* bezeichnet, trotzdem das sie einer nicht rechteckige Form und keiner Rektangularprojektion entsprechen.

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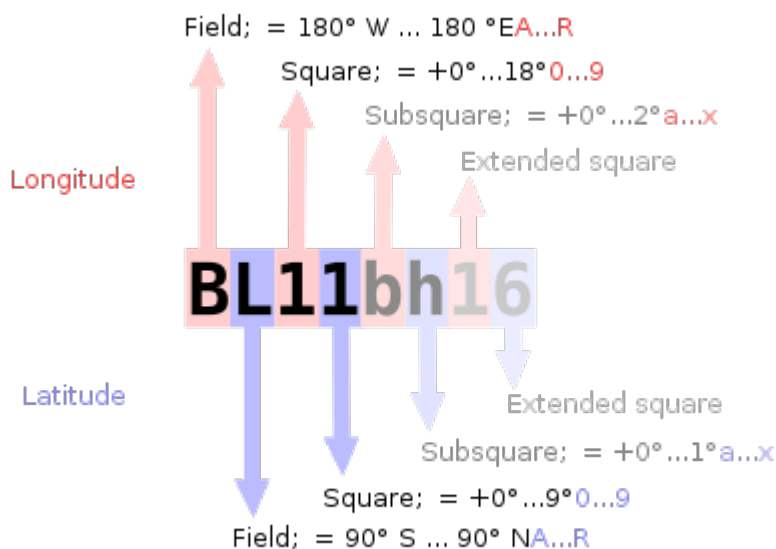
Der Maidenhead Locator komprimiert die Länge und Breite in eine kurze Abfolge von Zeichen. Die Positionsinformation wird beim Maidenhead Locator in eine geringere Genauigkeit umgewandelt um die zu übertragende Anzahl der Zeichen für Sprache, Morse und digitale Funkübertragung gering zu halten.

Das gewählte Kodierungsverfahren nutzt abwechselnde Paare von Zeichen und Ziffern die folgendermaßen aussehen:

JN67bh16

In jedem Paar codiert das erste Zeichen die Länge und das zweite Zeichen die Breite. These character pairs have also traditional names, and in the case of letters, the range of characters (or "encoding base number") used in each pair does vary.

Um negative Zahlen bei den Daten zu vermeiden wurde das System so spezifiziert das die Breite vom Süd zum Nordpol und die Länge ostwärts vom Greenwich Längengrad gemessen wird vom Anfangsmeridian ein "falsches Ost" von 180 Grad und dem Äquator ein falsches Nord von 90 Grad verliehen.

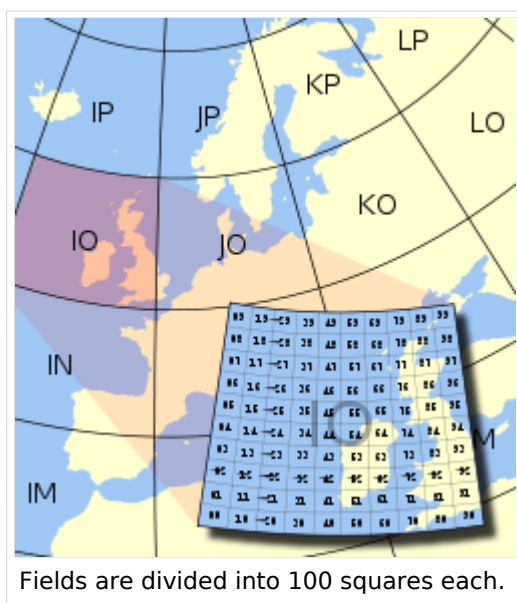


Um die händische Eingabe zu Vereinfachen, die Basis für das erste Paar von Buchstaben (traditionell Feld genannt) war 18, dadurch wird der Globus in 18 Zonen mit einer Breite von jeweils 10° und in 18 Zonen der Länge in jeweils 20°. Die Zonen werden mit Buchstaben von "A" bis "R" kodiert.

Das erste Nummernpaar, genannt Square folgt dem ersten Buchstabenpaar und nutzt eine 10er Nummernbasis die mit den Nummern "0" bis "9" dekodiert wird. Das ist der Grund woher der alternative Name "Grid Squares" abgeleitet wurde. Jedes dieser Squares (Felder) steht für 1° Grad Breite und 2° Länge.

For additional precision, each square can optionally be sub-divided further, into *subsquares*. These are encoded into a second pair of letters, often (but not always) presented in lowercase, and again, to make manual calculations from degrees and minutes easier, 24 was chosen as the base number, giving these subsquares dimensions of 2.5' of latitude by 5' of longitude. The letters used are "A" through "X".

The resulting Maidenhead subsquare locator string is hence composed of two letters, two digits, and two more letters. To give an example, W1AW, the **American Radio Relay League's Hiram Percy Maxim Memorial Station in Newington, Connecticut**, is found in grid locator **Vorlage:Coor Maidenhead**. Two points within the same Maidenhead subsquare are always less than 12 km apart, which means a Maidenhead locator can give significant precision from just six easily transmissible characters.



Fields are divided into 100 squares each.

For even more precise location mapping, two additional digits were proposed and ratified as an *extended locator*, making it altogether eight characters long, and dividing *subsquares* into even smaller ones. Such precision has uses in very short communication spans. Beyond this, no common definition exists to extend the system further into even smaller squares. Most often the extending is done by repeating alternating subsquare and square rules (base numbers 24 and 10 respectively). However, other bases for letter encodings have also been observed, and therefore such *extended extended* locators might not be compatible.

The Maidenhead locator system has been explicitly based on the **WGS 84 geodetic datum** since 1999.

Before that time, it was usually based on each user's local national datum, which do differ slightly from one another and WGS 84. As a result, stations very near the edges of squares at denoted precision may have changed their locators when changing over to the use of WGS 84.

To summarize:

- Character pairs encode **longitude** first, and then **latitude**.
- The first pair (a *field*) encodes with base 18 and the letters "A" to "R".
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BL11bh16oo66

On **shortwave** frequencies, positions are reported at *square* precision, and on VHF and UHF, *subsquare* precision is used. More precise position reports are very rarely used.

Use by radio amateurs

Today, individual radio amateurs and organizations around the world recognize and use Maidenhead locators. Many utilities exist to convert latitude and longitude to locators, as this is a favorite **hack** for programmers who are also radio amateurs. Commercially available (civil) **Global Positioning System** receivers are frequently able to display Maidenhead locators.

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In IARU Region 1 rules, VHF distances are calculated from maidenhead subsquare centers using a *spherical* Earth. This results in a small error in distance, but makes calculations quite simpler, and given the inherent imprecision in the used input data, it is not the biggest error source.

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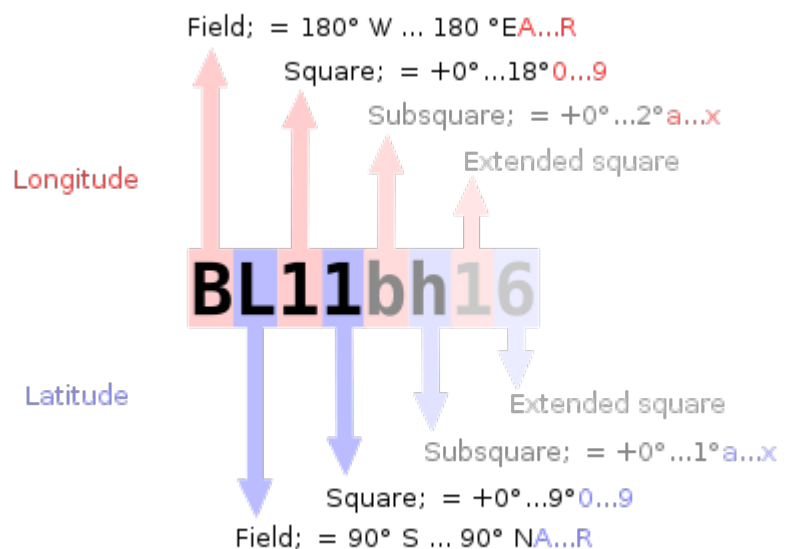
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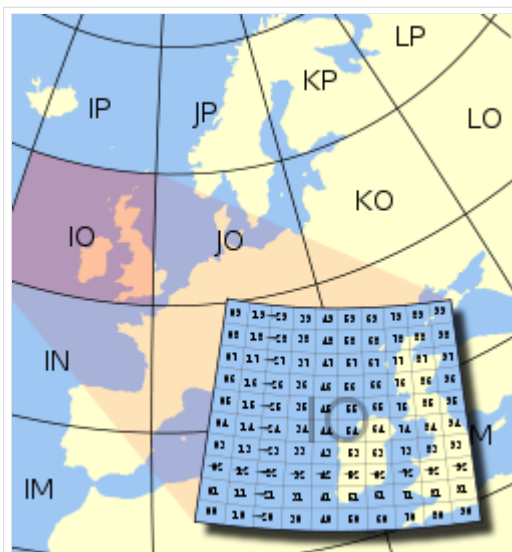


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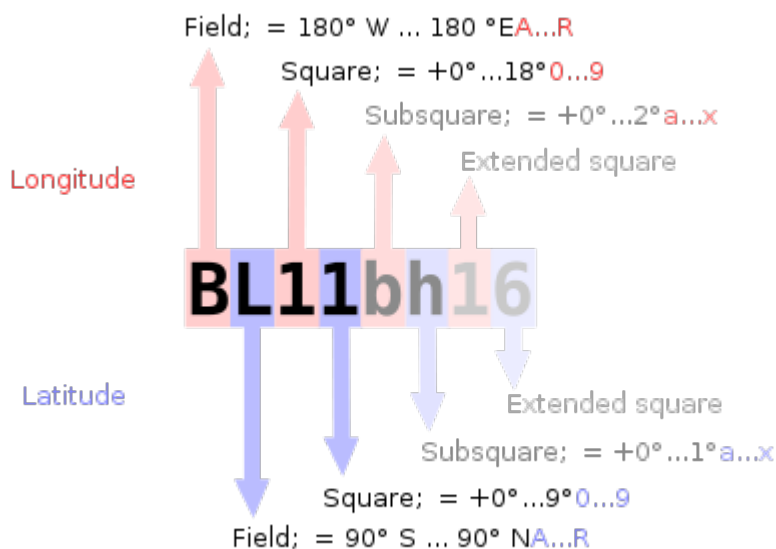
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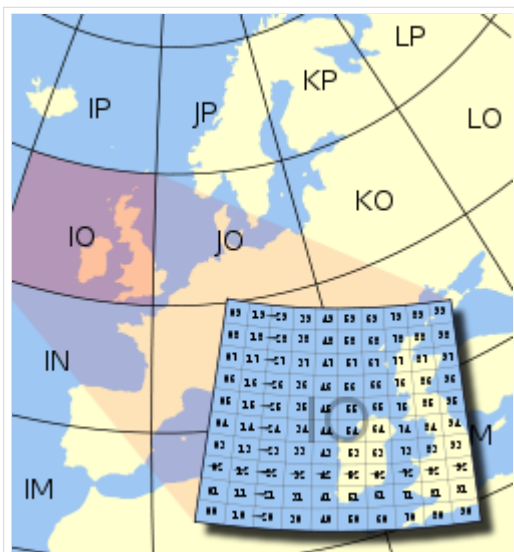


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