

### **EDITORIAL**

This month's Meeting on November 21st is a



talk by Mike (G4KXQ) on the 'uSDX - SDR transceiver'. Mike's



well researched and presented and something to look forward to - so put it in your diary and see you there!

Our December Meeting on the 19th is our Christmas Party which is open to both members and family. This year your Committee has decided to slightly change the format in that members are asked to bring food of their choice to the Party to be shared with others. The Club will provide all drinks, table cloths, cutlery etc as

well as £50 worth of Raffle prizes.

Dave (G0PGK) will do his Xmas Quiz and John (G3JKL) will organise festive music. This will be a great way to relax, have a natter, and get into the Christmas spirit.

On January 16th, there will be an **Open Meeting** ie family and friends are most welcome, when Nick Arnold will give a talk on the 'Battle of Northam' which will be most interesting and well worth making a note of in the diary.



The February Meeting will be a Bring & Buy so sort out what gear you no longer need and start a shopping list! Terry (G4CHD)

#### **CLUB MEETINGS**

Meetings are held at the Appledore Football Social Club starting at 7.30pm for 8.00pm. Visitors always welcome. For further information, please contact the Secretary, John (G3JKL) - see front panel for contact details. If you have any suggestions for a suitable talk etc please contact any Committee member.

Date	Topic
Nov 21 <sup>st</sup>	Talk 'uSDX - SDR transceiver' by Mike (G4KXQ)
Dec 19th	Xmas Party
Jan 16th 2023	Open Meeting - 'Battle of Northam' by Nick Arnold
Feb 20 <sup>th</sup>	Bring & Buy
Mch 20 <sup>th</sup>	AGM

#### LOCAL REPEATERS/GATEWAYS

2m Stibb Cross Repeater (GB3DN)

http://www.g0rql.co.uk/gb3dn.htm User: Listen 145.6375 MHz - Transmit 145.0375 MHz. Access 1750 Hz Tone or 77 Hz CTCSS Repeater keeper is Tony (G1BHM)

Fusion/C4FM/WiresX Gateway (MB6DT) Frequency 144.8125 MHz. Gateway Keeper Darren (2E0LVC)

Fusion/C4FM/WiresX Gateway (MB6DN) Frequency 144.825 MHz. Gateway Keeper Drew (M0MFS)

### LOCAL NETS

Weekday Zepp FM Net:	Mon/Tues/Thurs/Fri : 145.450MHz - 4pm - 5pm Wed via GB3DN - 4pm - 5pm Net Control : Len (M0SXY)
2m Elevenses FM Net:	Mon/Wed/Fri : 11 - 12.00 noon via GB3DN Net Control ; Mike (G3PGA)
Friday Night 2m Net:	Friday : 145.450 FM, 8 - 9pm
Sunday Top Band Net:	Sunday 1.860 MHz 9.30 - 10.15am (LSB - 32W pep max)
2m SSB Nets:	Wed: 8 - 9pm 144.260MHz USB SSB (Vertical polarised) Sun: approx 10.30am (follows Top Band Net) 144.260MHz USB SSB (Vertical polarised)
Sunday FM Net:	Sunday: 11 to noon via GB3DN Net Control : Chris (G0FJY)

#### **REPORT ON OUR OCTOBER MEETING**

#### 'Old Ham Radio Kit – Why the Hell do we Bother?' by Steve (G3ZPS)

This was a new venture for our Club in that the talk was given via Zoom and watched by members at our Clubhouse together with a few members who watched at home for various reasons. Steve illustrated his talk by a well illustrated Powerpoint presentation together with many personal references to the large collection of historic equipment which he owned.



Many watching found themselves back in earlier days with a much loved and treasured transceiver bringing back fond memories.

Our sincere thanks to Steve for a most interesting and enjoyable talk.

The feedback from members was extremely positive and many would welcome another Zoom talk by a distant Speaker with perhaps the suggestion that the talk should preferably last no more that about 45mins.

### PRESENTATION OF THE JOHN JEFFERS AWARD

At our last AGM in March 2021, **Dave (G4XWQ)** was chosen for the John Jeffers Award and I'm very pleased to report that Dave has now been presented with his award by

John (G3JKL) at Dave's QTH. Well done Dave and a very worthy recipient.



### <u>PROPOSED 70cm NORTH DEVON</u> <u>REPEATER</u>

I recently received the following information from Don (G0RQL) :-

The repeater would be sited on a temporary basis until a permanent site can be found and could give coverage similar to DN.

We have always maintained that we would like to keep DN as an analogue repeater but if necessary to retain interest things may have to change in the future.

*The 70 cms repeater will have 3 modes of operation being Fusion, D Star and DMR.* 

Any feed back to be sent Don at <u>g0rql.don@gmail.com</u>

Finally I have included an article I recently wrote mainly for my own use on the various ways one's location can be defined in amateur radio. Maybe some members may find it interesting and I welcome any feedback.

Enjoy the Newsletter Best 73s Terry G4CHD

## LATITUDE & LONGITUDE - MAIDENHEAD LOCATOR - WAB

### **METHODS OF DEFINING YOUR POSITION**

# by Terry (G4CHD)

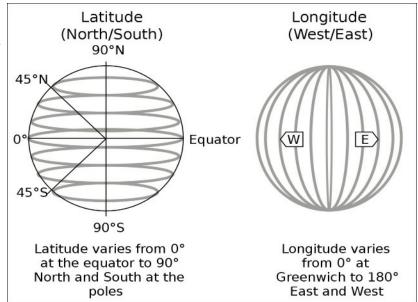
### Latitude and Longitude

Latitude and Longitude defines a point on the Earth's spherical surface using an angular based system.

Latitude defines how far North or South of the Equator you are. The Poles are at Latitude 90 degrees and the Equator is at Latitude zero.

Longitude is measured from the Greenwich Meridian which is Longitude zero.

The diagram opposite demonstrates this :



### <u>Maidenhead 6 Character Locator</u>

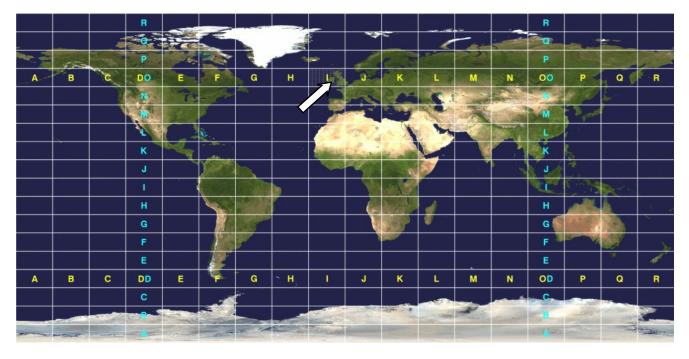
The Locator System also uses Latitude and Longitude to define a square on the Earth's surface and consists of 3 pairs of characters :- An alphabetic pair followed by a numeric pair and finally ending in an alphabetic pair eg IO71va

The first character in each pair refers to Longitude and the second to Latitude.

To avoid negative entries, Longitude is measured Eastwards from the Greenwich Anti meridian and Latitude is measured Northwards from the South Pole

Longitude is divided into 20 deg steps and Latitude into 10 deg steps (ie A through to R)

It can thus be seen that IO in IO71va refers to the UK as seen in this Cylindrical Equal Projection map :-

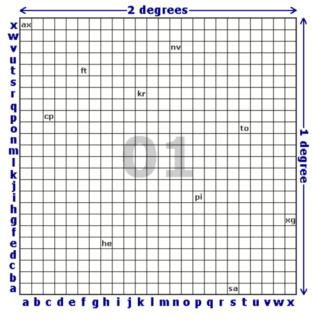


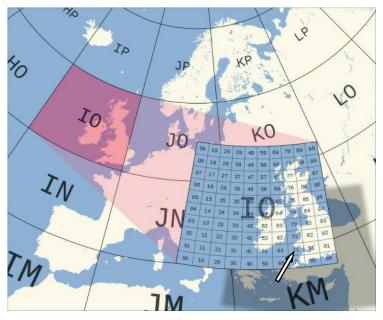
'I' indicates Longitudes from 160 to 180 degs East of the Anti Meridian ie -20 to 0 degrees West of the Greenwich Meridian and 'O' indicates Latitudes from 140 to 150 degs ie 50 to 60 degs North of the Equator

In turn, each Field is subdivided into 10 x 10 squares as shown on the Map opposite and shows how squares nearer the Pole are smaller :-

# Hence each 'Square' is 2 degs of Longitude by 1 degree of Latitude.

The 'square' 71 can be seen in the lower right and covers North Devon and part of South Wales.





Finally each Square is further subdivided into 24 x 24 Sub Squares each 5 minutes Longitude by 2.5 minutes Latitude.

Using this system, a station's location is thus identified to within better than 5.6 nautical miles anywhere on the surface of the Earth.

The Latitude and Longitude system as well as the Locator system both use angular polar type coordinates which are ideal for locating somewhere on the curved spherical surface of the Earth.

### Ordnance Survey - OS - Coordinates System and WAB Squares

An alternative way of 'mapping' is to use a system of triangulation with accurate Trig Points and assume the Earth surface is flat. This has been done by the Ordnance Survey which is the National Mapping Agency of Great Britain.

Ordnance Survey maps of Great Britain use the Ordnance Survey National Grid rather than latitude and longitude to indicate position which is based upon a combination of ortho-rectified aerial photographs and triangulation using Trig Points.

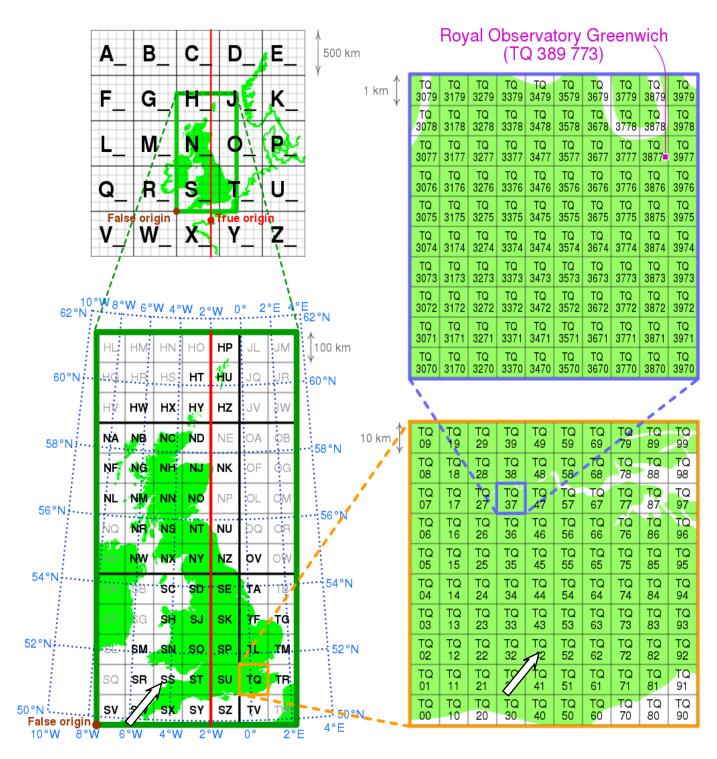
The system is summarised in the diagram on the following page and shows how 'squares' in the OS System differ from Maidenhead squares which are based upon Longitude and Latitude.

The OS system is based initially upon a 5 x 5 grid of Squares - each 500 x 500 km in size identified as A through to Z (omitting I). Each Square is then subdivided into 100 x 100 km squares which in turn are subdivided into 10 x 10 km Squares eg SS42 covers my location.

This 4 character system is used by **Worked All Britain (WAB)**. From the following diagram it can clearly be seen that there is no direct correlation between the OS/Longitude and Latitude System and that used by WAB.

One way to derive a WAB Square is to use an OS Map and use the main two alphabetic characters for the main square followed by the first and fourth numbers that follow:-

eg for my location the National Grid Reference is **SS431287** giving a WAB Square of **SS42** 



Alternatively, go to - www.streetmap.co.uk - locate your position and click on 'click here ..' to convert

