

# **THE GRID CHASER'S ATLAS OF THE DX WORLD<sup>©</sup>**

**Includes supplemental section:**

**The Grid Chaser's Atlas for Worked All States<sup>©</sup>**

(Both atlases are intended to assist DX enthusiasts and shortwave listeners in tracking their QSOs by grid square.)

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## INTRODUCTION

Thank you for your interest in ***The Grid Chaser's Atlas of the DX World***<sup>®</sup>. I hope you find it a useful record keeping tool as you scan the bands in your quest for those elusive DX contacts.

The Atlas started out as a simple tool for the author's personal use. My intent was to build simple charts that documented all the grid squares occupied by the state of Pennsylvania and the country of Germany.

It wasn't long before I decided to expand my efforts and create grid charts for the entire European continent and all fifty United States. As my interest in DX grew and my QSO successes increased, I recognized a need to expand my grid charts further to include other parts of the world. So, encouraged by fellow hams, I soon decided to develop a comprehensive collection of grid charts documenting the entire DX world.

This Atlas represents an almost two year culmination of those efforts. All 340 DX countries / entities recognized by most logging services and ham radio groups are documented.

Be advised that in some parts of Africa, Asia and the Middle East national borders are not clearly defined, making it difficult to confidently document them in this atlas. The charts reflect my best guesses as to the grids occupied by these countries.

Finally, I owe thanks to Bob – W4RJP and Steve – N4SGL for their encouragement, ideas and editing assistance as I developed this work.

Enjoy the Atlas! And good DXing!

## IMPORTANT NOTES

**Support** – There is no support available for the Grid Atlas. It is **FREE** and provided **AS-IS**. The contents were developed using tools in **MS-Excel** and **MS-Word**. Any bugs that show up could be related to your operating system version, your word processor or spreadsheet program, or the Grid Atlas itself.

Contents of the Grid Atlas were written using very basic **MS-Excel** and **MS-Word** features. Anyone with minimal knowledges of **Excel** and **Word** should have no difficulty understanding the design. If something doesn't work right, don't call us. Just go ahead and make the necessary changes to fix it.

**Warranty** – This Atlas is the personal work of the author and is being made available as a courtesy to fellow hams. No warranty of any kind is provided or implied. Use the Atlas at your own risk.

**Sharing** – You may freely use and share this Atlas. I only ask that you respect intellectual content by not removing the author's name or altering the Atlas' name and copyright notice.

**Feedback** – If you have comments to share, send them to [gridatlas@gmail.com](mailto:gridatlas@gmail.com). We would like to hear them. While we read all emails, please note we are unable to respond to most messages.

## FREQUENTLY ASKED QUESTIONS

### **Where can I download a copy of the *Grid Chaser's Atlas*?**

Look on the Treasure Coast Hams web site: [www.treasurecoasthams.com](http://www.treasurecoasthams.com). The web site is under construction, but there should be a link on the home page for downloading the **Grid Chaser's Atlas**.

### **Is there a charge to download a copy of the *Grid Chaser's Atlas*?**

No. There is no charge to download. The Atlas is the result of a personal project. I am making it available to others who may find it useful. If you enjoy it and find it useful perhaps you will consider joining or making a donation to the Port Saint Lucie, FL or Fort Pierce, FL amateur radio clubs. Web sites are: [www.pslara.org](http://www.pslara.org) and [www.fparc.org](http://www.fparc.org). Both organizations need our support.

### **How up to date is the content of the *Grid Chaser's Atlas*?**

The content of the Atlas is current to August, 2023. All 340 generally recognized DX countries / entities are represented. We are not aware of any anticipated changes or additions to the DX list in the near future, meaning the Atlas should remain current for a while.

### **Will there be updates to the *Grid Chaser's Atlas*?**

No updates are anticipated. If a new DX entity is added, or an existing one is removed, updates to the Atlas may be needed. The country lists and grid charts were created using very basic **MS-Excel** features. It is expected that most users should be able to easily apply any needed updates to keep their copy of the Atlas current.

### **What if I find a bug in the *Grid Chaser's Atlas*?**

Bugs can occur. If you find a content error, go ahead and fix it. As a courtesy, you can drop us a line explaining the bug. Email: [gridatlas@gmail.com](mailto:gridatlas@gmail.com). Note that print format problems are often the result of operating system and printer settings and not a deficiency within the document. You may need to fine tune printing parameters to your system. Don't bother reporting printing issues to us.

### **What if I find an error in the grids assigned to a country?**

Some national borders are not clearly defined, especially in Africa, Asia and the Middle East. Should you determine that grid assignments for a particular country differ slightly from what is documented on the grid charts, just update that country's chart. Most country charts have some blank space around them, allowing for ease in making modifications.

## FREQUENTLY ASKED QUESTIONS

***Can I link the Grid Chaser's Atlas to my logging program so that it updates automatically as I log QSOs?***

No. The Grid Chaser's Atlas is a series of standalone MS-Excel spreadsheets intended to be manually updated and maintained by the user. The Atlas does not contain any macros or embedded code to support external interfaces. Should an entrepreneurial ham design an interface between the Atlas and one of the major logging programs, please share it with the rest of us.

***The entire planet consists of 32,400 grid squares. That's a lot of grids! Does the Grid Chaser's Atlas document all of them?***

No. The Atlas only documents the grid squares occupied by land masses of the 340 recognized DX countries / entities. Many of the world's grids are "wet grids" meaning they are all water and contain no inhabited land mass. Wet grids are not documented in the Atlas.

With two exceptions, all grids occupied by the recognized DX countries and entities are documented. The two exceptions are Asiatic Russia and Antarctica. Both are massive in size and both have large uninhabited regions. In each case, only regions with population sufficient to offer a reasonable chance of making a DX contact are documented. Further information is provided on the grid chart pages for Asiatic Russia and Antarctica.

***Can I share the Grid Chaser's Atlas with my friends and fellow hams?***

Yes, you may share the document. If you do share it, please do not remove or alter the copyright statement(s).

***What if I can't get the Grid Chaser's Atlas to load or run on my computer?***

Sorry, but we can't help you. You are on your own. Figure it out yourself or consult with a friend. We are providing the Atlas for free. We do not have the means to provide technical support.

# THE GRID CHASER'S ATLAS OF THE DX WORLD<sup>®</sup>

## FIRST THINGS FIRST

BEFORE GETTING STARTED, LET'S TAKE CARE OF SOME HOUSEKEEPING DETAILS. WHEN WORKING WITH THE GRID ATLAS YOU WILL BE ENTERING DATA ON A SPREADSHEET. AS WE ALL HAVE EXPERIENCED FROM TIME TO TIME, MISTAKES CAN HAPPEN - **SO BE PREPARED.**

**IF YOU HAVE NOT ALREADY DONE SO, MAKE A BACKUP COPY OF THE *GRID CHASER ATLAS* FOLDER NOW.** (BE SURE TO CLOSE THIS DOCUMENT BEFORE MAKING YOUR BACKUP COPY.)

## IN THE BEGINNING

Lacking an HF rig and antenna, for years this ham was only a VHF / UHF operator with a 5-watt handheld transceiver. Eventually, I received a gift of an old [Icom](#)<sup>®</sup> radio from the estate of a friend. But still lacking any type of antenna, I remained a VHF / UHF only ham.

That all changed in 2020 when a friend, Bob – W4RJP, gifted me a 17-meter Hamstick vertical antenna. We connected the Hamstick to a mag-mount base and strung coax from the antenna to the radio. We then set the magnetic-mount antenna on the roof of my car. Powering up the radio, we made a few tests. The result was that both radio and antenna performed well.

At that point, it was “off to the races.” I installed [WSJT-X](#) on my computer and cabled it to the radio using a [SignalLink](#)<sup>™</sup> as the sound card interface. I was now on the air and working digital modes.

Because of the age of the radio, and the minimal mag-mount antenna, I made the decision to limit my power output to a maximum of 25-watts so as to not stress the equipment. Fast forwarding to today, I still typically run 20-watts power or less. Yet even with this low power and minimal antenna I've been wildly successful with over 130 DX entities and all 50 states confirmed – all working FT8, FT4 and JT65.

That success, coupled with the difficulty of documenting QSOs in a meaningful way beyond the basic country or state name, would eventually lead me to the idea of developing *The Grid Chaser's Atlas of the DX World*<sup>®</sup>.

## AN IDEA IS BORN

In amateur radio, logging services – of which there are many – offer a multitude of awards for achievements such as confirming QSOs with 100 or more counties, working all states or continents and many others.

Every logging service provides a means for users who create an account to view access of their progress toward the many awards that are offered.

Most logging services also provide a way for the user to print a list of his / her QSOs. In many ways the printed list looks similar to a log, but also shows progress made by the user toward earning the various awards offered by the logging service.

In recent years, significant advances have been made in digital communication techniques. The result is an opportunity to experience exceptional performance even when operating with low power in noisy environments. I'm thinking specifically of the FT8, FT4 and JT65 signaling formats (and others) made famous by [Joseph Taylor – K1JT](#) and his team along with the [WSJT-X](#) software. These advances made it possible for hams with minimal antennas and low power rigs (like myself) to get on the air and chase the elusive DX normally pursued only by the big stations.

As the FT8 and FT4 formats continued growing in popularity, one of the things hams became more aware of was the use of a grid identifier to roughly indicate an operator's geographic location on the surface of the earth. The grid system used in amateur radio is the [Maidenhead Locator System](#), which was developed in England in 1980. Google "maidenhead grids" to learn more.

And so was planted in my mind the seeds of an idea to develop some kind of chart to track my grid progress. It started with a simple need: I wanted to document those grid squares within my home state of Pennsylvania with which I had been able to have a QSO, and also to indicate if the QSOs were confirmed. In short, we could say my goal was to **Work All Pennsylvania** and find an easy way to track and document my progress toward that goal.

My needs soon expanded when I decided I also wanted to track grid squares worked in Germany. Germany has a special significance to me. My wife and I lived there for almost two years and our daughter was born in Stuttgart, Germany. So now I had a second goal: **Work All Germany**.

I quickly realized that the first challenge for both quests was to determine how many grid squares Pennsylvania and Germany occupied. A second challenge was to identify the ids of those grid squares

## GETTING STARTED

I began researching the grid square system. Figuring out the Pennsylvania and Germany grids was not too difficult. It turns out Pennsylvania occupies portions of 14 grid squares and Germany occupies 41.

Next came the challenge: Find a way to create a grid map or chart where I could document my progress toward both goals in a format that was visually pleasing, easy to understand, and easy to print.

Somewhat surprisingly, I found limited tools and ideas that would further my plans. The closest tools I found were charts documenting all 488 grid squares that make up the 48-contiguous United States. But those charts did not break out individual states. Google "maidenhead grid map USA" and you will find many examples of USA charts.

I also found a few software applications that would indicate which state or country occupied a particular grid square, but none that would summarize all grid squares occupied by a specific state or country. A few did have a way to manually query one grid square at a time to determine the state or country occupying the grid, but there was no simple way to collect the results of multiple queries and combine and print the results.

A particularly useful application for learning more about grids is [GridTracker](#). It's a powerful program that can interface with [WSJT-X](#), your station and a number of popular logging services.

I eventually concluded that I can't be the only ham frustrated by the limited information available about grid squares. That led to the decision to do the necessary research to collect and document the grid squares occupied by all 340 worldwide DX countries / entities recognized by logging services and most major DX programs. Thus, the concept for ***The Grid Chaser's Atlas of the DX World***<sup>®</sup> was born.

On the pages that follow I will explain ***The Grid Chaser's Atlas of the DX World***<sup>®</sup> in more detail and offer the readers ideas intended to maximize the usefulness of the document.

As with any publication, errors tend to work their way into the final product. This is especially true when complicated research is involved in developing the content. Every effort has been made to check and validate the content; however, as careful as I have tried to be, I'm sure a few errors exist.

If you find something wrong, don't despair. Just fix it. We will tell you how on the following pages. Then notify us of the mistake so we can fix it in the master file.

Thanks. And good DXing!

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## **ANOTHER REMINDER**

I CAN'T SAY IT ENOUGH - MISTAKES CAN HAPPEN. BE PREPARED. IF YOU HAVE NOT ALREADY DONE SO, MAKE A BACKUP COPY OF THE ***GRID CHASER ATLAS*** FOLDER NOW. (BE SURE TO CLOSE THIS DOCUMENT BEFORE MAKING YOUR BACKUP COPY.)

## **A BRIEF OVERVIEW OF *THE GRID CHASER'S ATLAS OF THE DX WORLD*<sup>®</sup>**

### **CAUTION**

First and foremost – If you've not already done so, before proceeding make a backup copy of the atlas now. (See note at the bottom of the previous page.)

### **WHAT IS THE GRID CHASER'S ATLAS?**

*The Grid Chaser's Atlas of the DX World*<sup>®</sup> was developed as an aid for DX enthusiasts and other hams and shortwave listeners looking for an easy way to document his/her QSOs by both country and grid square within the country.

By keeping a copy on the atlas on your local computer and updating the charts as you complete QSOs or receive confirmations, you will have at your fingertips a quick and easy way to view your DX progress and to print out paper copies of same.

### **STRUCTURE OF THE ATLAS**

The complete atlas is supplied in a single file folder named ***Grid Chaser Atlas***. Total size of the folder and all contents is less than 1.5 MB. Within the folder are a total of 9 ***MS-Excel*** spreadsheets and this text document, which is in ***MS-Word*** format. A ***PDF*** copy of this document is also provided for ease in printing.

There are 7 continents in the DX world. They are North America, South America, Europe, Africa, Asia, Oceania and Antarctica. (Note that even though geography class taught us Australia was a continent, in the world of DX that is not the case. In DX, Australia is considered to be part of Oceania.)

Seven of the nine spreadsheet files in the ***Grid Chaser Atlas*** folder represent the seven DX continents, with a separate spreadsheet for each. Names are obvious, making it easy to identify each spreadsheet. The eighth spreadsheet provides an expanded view of the United States. This sheet should prove useful to hams chasing after a Worked All States award. Each of the continent and United States spreadsheets consists of multiple tabs (or pages).

The final spreadsheet is an index file alphabetically listing all 340 DX countries / entities and indicating the continent where the chart for each can be found.

### **STRUCTURE OF THE SPREADSHEETS**

Except for this introductory document which is in ***MS-Word*** format, all continent files (including the United States file) and the index file are ***MS-Excel*** spreadsheets. All were created using ***MS-Excel 2010***. This document was created using ***MS-Word 2010***. Both ***MS-Excel*** and ***MS-Word*** are part of the ***Microsoft Office 2010 Home*** and ***Microsoft Office 2010 Professional*** products.



It is anticipated that all files in this atlas should display, update and print under any version of **MS-Excel** and **MS-Word** from version 2010 forward to the versions current today. Speaking specifically of the **MS-Excel** spreadsheets, great pains were taken in designing them to use only basic tools, avoiding complex features that could prove to be incompatible from one version of **MS-Excel** to the next.

Font styles used to display text on the spreadsheets are **Calibri** (used for names and titles) and **Arial Narrow** (used for grid square identifiers). Both are common fonts found in every version of MS-Excel. This text document is entirely written using the **Calibri** font.

It is expected that the spreadsheets should display, update and perform equally well on third party spreadsheet applications; however, this author has no means available to test any alternative spreadsheet programs. Thus, no assurance of compatibility can be provided.

Also, the atlas was designed for viewing on a standard monitor or laptop computer display. It will probably be difficult or impossible to work with it on a cell phone. The atlas may be usable on a tablet device, particularly one with a larger display. You can try running it on a tablet or phone if you want, but don't look to us for help if it doesn't work. No consideration was given to cell phones and tablets during the creation of the atlas.

## CELL PROTECTION

Nothing on the spreadsheets or text document has been protected. That means every cell on every spreadsheet is active and can be updated or altered. **BE CAREFUL.** An accidental keystroke here or there could alter content in an undesirable way. Always use caution when editing and save your work at regular intervals.

The first tab of every spreadsheet file (except the index file) is a **DX Checklist & Progress Chart**. The last column on each of these charts contains a formula and will automatically update when cells in the same row are updated.

Likewise, the cells in the bottom row of each chart also contain formulas. They update automatically when any cell in the same column is updated. Use caution not to alter any of the formulas.

If you determine you must add or remove a row or column on any checklist be sure to check the formulas for the rows and columns updated. Depending on how you did the addition, deletion or update, you may need to make an adjustment to the associated formulas.

## PRINTING

All spreadsheets are configured to print on standard 8-1/2 x 11 inch paper. Use the **File – Print** option in **MS-Excel**. You can also use the **File – Print** option in **MS-Word** to print this text document.

Print layouts and spacing may differ from one computer / printer configuration to the next. If you find this document or a grid chart doesn't print well, the easiest fix may be to go into **"Scaling"** on the **"Print Setup"** page and select **"Fit Sheet on One Page."**

## USING THE DX CHECKLISTS & PROGRESS CHARTS

### LAYOUT



The spreadsheets files are all structured similarly. Each contains a ***DX Checklist & Progress Chart*** tab and multiple ***Grid Chart*** tabs. We will discuss the checklists and grid charts separately. Note that all discussions that follow apply equally to all files in the atlas.

### GENERAL

The ***DX Checklist & Progress Charts*** are intended to be used as checklists where you can indicate those countries / entities and bands where you have scored a QSO or QSL (confirmation).

### EDITING AND UPDATING

To update the checklist, simply insert a capital letter “X” or some other letter or symbol in the appropriate square to indicate a successful QSO. As you update cells you will notice that the total columns on the right and across the bottom automatically update to reflect your entry.

An adventurous user may also want to indicate QSLs (confirmed QSOs). To do that, we suggest entering the “X” with a different background color to indicate an unconfirmed QSO from a confirmed QSL. For example, you could use  to indicate a non-confirmed QSO and  to indicate a QSL (confirmed QSO).

The choice of how you use the checklists is up to you. The discussion of colors in the ***Using the Grid Charts*** section of this document may give you additional ideas.

### PRINTING

Layout and sizing of the ***DX Checklists & Progress Charts*** are configured to print neatly in a portrait layout on standard 8-1/2 x 11 inch paper. If the checklists do not print neatly on your printer, it may be necessary to adjust margins, page breaks or other printer settings. A reminder: Should you make any changes, be sure to save the file so you don't lose your work.

Depending on the number of rows on a specific checklist, a printed copy could be from one to three pages in size. Column headings should print at the top of each page. Page breaks are preset in each checklist's print setup. If a checklist doesn't print properly it may be necessary to adjust print settings. Don't forget to save the file if you make any changes.

If you find it necessary to add or remove a row from a checklist, you may find it necessary to reset page breaks. In general we laid out the pages to allow for the addition of one row per page without a need to reset page breaks. And don't forget to review the formulas for the totals should you need to add or remove rows.

## USING THE GRID CHARTS

### GENERAL

The grid charts provide the user an easy way to document his/her QSOs by country and grid square within the country. By regularly updating the charts on your personal computer you will have at your fingertips a convenient way to view your DX progress and to print out paper copies of same.

### ABOUT THE GRID CHARTS

The charts are designed to provide the ham operator an easy way to view progress toward achieving goals such as DX awards, Worked All States awards, grid awards and many others.

The Atlas and Grid Charts are not intended to replace a log; and they have no official use toward awards or in contests. The intent of the Grid Charts is simply to provide a visual recognition of grid squares contacted or heard.

The spreadsheet can be used in various ways.

- A. To aid in managing contacts (QSOs) and confirmations (QSLs) on a grid by grid basis.
- B. By using different colors, you can easily differentiate grid squares where you replied to CQ calls and grid squares from which replies were received to your CQ calls.
- C. To maintain a consolidated record by band of grid squares contacted or heard.
- D. By making multiple copies of the grid charts, you can maintain separate records for each band and/or mode on which you operate.

### LIMITATIONS

This spreadsheet was developed under **MS-Excel 2010**. It should also run well on newer versions of **Excel**. I do not expect it to work on older versions of **Excel**.

As noted previously, the grid charts were formatted for viewing on laptop and desktop computers. No consideration was given to tablets and mobile devices, such as phones. The charts may not display properly, if at all, on these devices.

Also noted previously, the grid charts are not expected to operate under third party spreadsheet programs. This developer does not have the necessary resources to test alternate applications. Try them if you want at your own risk. Just be sure to make a backup copy of the atlas folder before experimenting.

### EDITING AND UPDATING THE GRID CHARTS

First, one last reminder – If you've not already done so, make a working copy of the master **Grid Chaser Atlas** folder now so you don't accidentally alter the original. Always work from a copy rather than the original.

Next decide how you want to use your work copy. You have three choices for application type: as an indicator of QSL status; as a record of grids heard or contacted; or, as a record of progress on a single band.

Regardless of how use the charts, you will update them by color shading grid squares to reflect your DX progress. The following paragraphs explain how.

## SUGGESTED COLOR SCHEME

You can use the grid charts in a number of ways. One possible way is to fill a cell with a particular color to indicate that a QSO was made with a ham in that cell. You can shade a cell with a different color to indicate a confirmation (QSL) received from a ham.

As an example, imagine you are on the air and makes a contact with a ham in Germany who reports his location as grid **JN49**. You would shade grid square **JN49** on the Germany chart in a color of your choice (**yellow** suggested) to indicate the successful QSO (**JN49**).

Should this ham later confirm the QSO in *Log Book of The World*® or any of the other logging services, you can change the shading of grid square **JN49** to a different color (**green** suggested) to indicate a successful QSL (**JN49**).

Confirmation of QSOs can came from many sources, including *Log Book of The World*®, *QRZ.com*, **eQSL** and many others. You may want to use a different fill color for each confirmation source.

## A HIERARCHY OF FILL COLORS

This author uses a variety of colors when updating grid charts to indicate QSOs or QSLs (confirmations). I have a hierarchal order of importance of QSLs (confirmations). To me, *Log Book of The World*® is the gold standard and at the top of my list in QSL importance. I fill a grid **green** (ex: **JN49**) to indicate a **LoTW** confirmation. I use other fill colors to indicate confirmations I consider subordinate to **LoTW**.

Here are my preferred color choices. If you don't like the examples, choose your own preferences.

<b>JN49</b>	Confirmed: <i>Logbook of The World</i> ®
<b>JN49</b>	Confirmed: QSL card (bureau or direct)
<b>JN49</b>	Confirmed: <b>ClubLog</b>
<b>JN49</b>	Confirmed: <b>eQSL</b>
<b>JN49</b>	Confirmed: <b>QRZ.com</b> & other electronic QSLs
<b>JN49</b>	Worked: Not confirmed

## ONLY ONE FILL COLOR PER GRID SQUARE

In *MS-Excel*, a cell can only have one fill color. So you are probably wondering what I would do when I receive a *Logbook of The World*<sup>®</sup> confirmation from a station in a grid I have already shaded red to indicate a **QRZ.com** confirmation. The answer is easy. I simply update that grid's color fill to green.

The reason for changing the shading is because the confirmation types shown on the previous page are listed in order according to my personal preference of importance, and I want the grid's shading to indicate the highest confirmation level I've achieved for that grid.

Similarly, when I have confirmations from multiple stations in the same grid I shade the grid using the color of the topmost confirmation type on the list. Thus, if I receive both **QRZ.com** and **eQSL** confirmations for the same grid, I would shade the grid in the **eQSL** color because **eQSL** is of higher importance to me (as indicated by it being closer to the top of my preference list).

## CHOOSE YOUR OWN COLORS

The sample colors indicated on the previous page are my personal preferences and are listed in my preferred order of importance, from most important to least important. There is nothing sacred about these colors. Use colors that are pleasing to you.

## IF YOU USE OTHER LOGGING SERVICES

I suggest you build a color chart similar to the sample shown on the previous page (or edit the sample color list) to reflect the logging services you use. Just remember that a grid square can only support one color. If you should add additional logging services and colors to the list, you may want to rearrange the order to reflect the importance of each to you as described above.

## TWO COLOR PLAN

A simple way to manage the grid charts is to use just two colors: one to indicate a QSO and the other to indicate a QSL (confirmation). This might be the best approach for a beginner just getting started in chasing grids. Refer to the discussion under **SUGGESTED COLOR SCHEME** on the previous page.

## SEPARATE CHARTS FOR EACH BAND OR MODE

Another way to use the charts is to make a copy of the *Grid Chaser Atlas* folder for each of your operating bands. Just remember to rename each copy of the folder to reflect the proper band. You could also create a separate folder for each operating mode you use.

## ALTERNATE METHOD – PRINT THE CHARTS

Should you not feel comfortable working with MS-Excel and spreadsheets, you may want to consider printing the grid charts and using colored pencils to shade grids and indicate your progress. If you print using an ink-jet printer, then use caution shading grids with magic-marker type pens. The liquid ink often smears text printed by ink-jet printers.

## NOTES CONCERNING CERTAIN COUNTRIES / ENTITIES

### NORTH AMERICA NOTES

**Canada** – The grid chart for Canada is expanded, providing a separate chart for each individual Canadian province and territory.

**United States** – Unlike the individual grid charts for each Canadian province and territory, the United States is displayed as a single grid chart spread over two pages.

Should you want to track individual states by grid, refer to the spreadsheet entitled “**United States 1**”. It provides individual state-by-state charts.

Note that “**United States 1**” is intended primarily for those hams wishing to track progress toward Worked All States. It includes a chart for Alaska, which is a duplicate of the Alaska chart in the “**North America 1**” spreadsheet. It also includes a chart for Hawaii, which is not part of North America for DX purposes.

### OCEANIA NOTES

**Australia** – The grid chart for Australia is expanded, providing a separate chart for each individual Australian state.

**Sprately Islands** – Following *Log Book of The world*® assignments, Sprately Islands is considered part of Africa. We also include Sprately in Oceania as a convenience to those hams who chase awards on other DX programs that consider Sprately to be located in Oceania. Please note that Sprately Islands is not included in the count totals on the Oceania checklist.

### OTHER NOTES

**Turkey** – Per *Log Book of The world*® assignments, some portions of Turkey are considered located in Europe while the majority of the country is located in Asia. The charts in the “**Europe 1**” and “**Asia 1**” spreadsheets provide details.

**Maldives** – Per *Log Book of The world*® assignments, Maldives is listed as residing in two continents, Africa and Asia. The delineation between the two continents is not clearly defined. Thus, the Maldives charts in the spreadsheets “**Africa 1**” and “**Asia 1**” represents this author’s best guess as to delineation and is subject to possible revision in the future.

**Easter Island** - *Log Book of The world*® assigns Easter Island to the South America continent. A few DX programs based in other countries consider Easter Island to be located in Oceania. This Atlas follows *Logbook of The World*® guidelines. Thus we include Easter Island in the “**South America 1**” spreadsheet.