Mapping the fantasy world of Westeros

See page 4

The Art of Globe-Making
pages 6-7

FOSS4G showcases modern maps pages 8-9

Working in the Bodleian Library page 13

Winter 2013 – £3.00
From the Editors

First of all, on behalf of all the team here at Maplines HQ, may I wish you a very merry Christmas and best wishes for the new year ahead. It does not seem like five minutes since I was writing that very greeting in last year’s festive issue but here we are again, sipping mulled wine and watching twinkling lights as we sit down in front of the fire to do the Maplines quiz.

I am really interested in the articles we have for you on this issue. In particular I am fascinated by the fantasy maps produced for the television series, Game of Thrones (see pages 4 and 5) and the graphical innovations that can now be incorporated with more traditional cartographic techniques. It is great to see good cartography being employed in all industries and given the current boom in gaming and console software, who knows where this may lead us.

When I stopped to think about other fantasy maps I had seen, I realised that I have seen more and more of them appearing in all sorts of places. For instance, just last month, the curtain at the Palace Theatre in Manchester was covered in a fantasy map of Oz to give viewers an idea of where the play Wicked is set.

And of course the map of Middle Earth is now well known by many thanks to the successful trilogy of Lord of the Rings films. Are there opportunities for the mapping community to influence the creation of these maps? And if so, how best can this be achieved without treading too heavily on the creativity that is clearly being put to good use?

Of course, that is not all we have for you on this issue. We have a great piece from Roy Perry who describes in detail how the much loved Perry Maps of the Channel Islands came into being (see page 10), as well as a fascinating insight from Peter Jolly into the map archives in the Bodleian Library (see page 13).

Naturally, there is plenty more for you to get your teeth into and if you are still agonising over that last minute gift, then look no further than the Bellerby Globe on pages 6 and 7! Season greetings to you all,

Adam
On behalf of Martin, Mark and Adam.

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Notes from our President

As the celebrations for our 50th Anniversary slowly wind down, it is probably a good time to reflect on the past year, which I honestly think we can say has been a most memorable one. As I look back now at all the events that have taken place this year, they reflect a well-supported Society that continues to grow and flourish in what are still difficult economic times, and in a culture where “joining” is perhaps not as popular as it once used to be. And yet, the BCS is obviously doing something right as our membership numbers continue to increase, with over 90 new members this year, taking our total up towards the 700 mark.

So what is the secret of our success? From a personal point of view, I think it is that we are an “inclusive” Society that has something to offer everyone across the whole spectrum of the cartographic and map-making community. There are groups we still need to connect with and part of our strategy in the coming year will be to reach out to these. Indeed, we are in the early stages of negotiation over a joint event to be held in the Spring. These are exciting and challenging times for Cartography and I would like to encourage you to tell us what you want your Society to be doing. We cannot afford to rest on our laurels in the coming years and if there is an area that is under-represented or you feel needs the Society to focus on, then please let us know.

So, what were the highlights of the last year? I think that all who attended the Michael Palin talk in July at the RGS will agree that his talk would be hard to beat as the supreme highlight. Michael is an amazing speaker, the sort you could listen to for hours and his presentation was stunningly illustrated with some fabulous photos. The Black Country Weekend was another very successful event, combining cartography with social and industrial history to great effect – and to see the recreated Portland Vase was the icing on the cake. The Annual Symposium in September proved to be extremely popular this year, with over 150 delegates signed up, a very full programme and the coup of getting the heads of the five major UK mapping organisations together to reflect on the last 50 years and do some crystal ball gazing about the future.

Jack Dangermond’s talk was extremely well received and was a tour de force from one of the biggest names in the cartographic and GIS world. As I write this, it is just prior to Nicholas Crane’s talk after our AGM, effectively the culmination of our 50th Anniversary celebrations. And in amongst all of these we have had BCS stands at various events throughout the year both at home and abroad at the International Cartographic Conference in Dresden. We have run 13 Restless Earth Workshops for schools and, perhaps most importantly, published our 50th Anniversary Book.

Looking forward to 2014, this past year is going to be a hard act to follow, but our programme of events is starting to take shape already. The Historical Military Mapping Group are planning a weekend in Lincolnshire looking at major anniversaries of the Second World War; Restless Earth continues apace with another 14 workshops planned for this academic year; we are planning to deliver the successor to our “Better Mapping” training day, and planning for our 51st Symposium in late June is well underway.

Finally, may I take this opportunity to wish you all the very best for the Festive Season. Eat, drink and be merry, and prepare for a great 2014 with the BCS.

Pete Jones
BCS President

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From Stokey to Harrods
Peter Bellamy has risen from frustrated buyer to successful globe-maker – no easy task!

Westeros: a map in motion
Depth and astonishing detail of a fantasy land has made for a truly accomplished map

The Lone Cartographer
An insight into the history of the Perry Maps tourist guide maps from Roy Perry himself.

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We need a new Arno Peters!
Have cartographers failed to inform map producers about appropriate projections?

The Future of Cartography
Jack Dangermond believes Web Cartography is extending the reach of mapping.

Visit the BCS website at www.cartography.org.uk

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Winter 2013 / Maplines
The title sequence of the ‘Game of Thrones’ captures in astonishing detail the history, culture and prominent landscapes of the fantasy world of Westeros in one glorious moving map.

From concept to completion took around two years. A team varied from twenty to twenty-five people working on building the map. As a device for reminding the viewer where the families are and what role they play, the map does this extremely well. The viewer really does get a feeling that they understand the places and the hardships that the population faces in those landscapes. The identity of the royal families and the complex human story is played over and over again to an evocative theme tune.

“When you play the game of thrones you win or you die. There is no middle ground.”
– character, Cersei Lannister

The fact that the title sequence is not static, it moves, swivels and changes direction gives the map life. The camera glides above, along and through the different cities and reveals their strengths from the landscape in which they reside. A seal in each city, provides a key to help the viewer remember which family lives in which city. Only after a while do you realise how adaptable the map in the title sequence is. It reflects the Houses in that particular episode, enabling the map to change view when new characters are introduced. The sword sounds remind you of the death and honour bound between each family. The alliances depicted in the series flow and change in the same way as the map changes and flows. The rich visual detail is a real treat and means that even non-fantasy fans can feel involved with the characters, bewildering cities and devastating events throughout the series.

If that has whet your appetite, then do catch-up on DVD series one & two. Series three is currently on Sky Atlantic and will be coming to DVD in the UK on Monday 24 February 2014. A joyous return to TV of an extraordinary fantasy genre and beautiful map making!

By Caroline Robinson,
Clear Mapping Co

For more information about Angus Wall and the Game of Thrones title sequence visit: www.artofthetitle.com/designer/angus-wall and www.artofthetitle.com/title/game-of-thrones

The camera glides above the intricately designed map of Westeros before...
Globe-makers
– From Stokey to Harrods

Globe-maker Peter Bellerby has risen up from frustrated present-buyer to designer/maker of deliciously decadent moving globes for the famous West London department store, Harrods, explains Caroline Robinson.

Above: How difficult is it to make a ball and put a map on it? Peter had to overcome many obstacles before achieving his “perfect” globe. Inset: The Britannia Standing Floor Globe.

“All images are copyright © Jamie Smith and Peter Bellerby

The art of globe-making

By Caroline Robinson, Clear Mapping Co

The attention to detail and quality has paid off. Now the globes are reaching out and popping-up, well, all over the globe. From Hollywood movies to TV productions, they are spreading the word about great cartography. The cute mini desk globes can be viewed at Peter’s website contact below. So save up your pocket-money, they are so much more worthy than my fabric footballs.

• Prices start at £999. Currently the largest models go up to £59,000. The Mini Desk Globe can be purchased online or in the UK at Harrods. All the larger globes currently are only available direct from the studio at www.bellerbyandco.com.

Globe-making I hear you cry, surely not?!

Surely that art has died with the omnipresent Map That Shall Not Be Named? Who in their right mind would start a business making highly-skilled, labour intensive, designer globes in a recession-ridden Britain?

“Ah, yes, sometimes the only way is to print out what you think is the perfect design only to find that they don’t quite join-up the way you imagined. Trial and error is a wicked process.

“Goring the globe (applying the map) was something that took eighteen months to perfect. None of the other globe-makers seemed to worry about it. Latitude lines that look like they have been drawn with a ruler after the map has been pasted on they are so straight. There just seem ed little point in spending two years researching a project only to produce a poor quality finish.”

The original plan, hatched in a pub in Kings Cross was to make just two, one for Dad and one for me,” says Peter Bellerby. “It would probably take three, maybe four months and cost a few thousand pounds. After all how difficult can it be to make a ball and put a map on it?”

Yes, well, indeed. I have designed basketballs and the dreaded football in a previous life as a product designer. Drawing things to go in a round shape is fraught with difficulties and matching the seams, well that’s a whole other story.

“So firstly I had to license a map. From a reputable source. It had incorrect capitals, most of the names in the Middle East were either rubbish or incorrectly spelled or positioned. In the end we changed everything. Then, I had to find a friend to write the programme to morph a rectangular map into ‘gores’ – the triangular shapes that fit onto a sphere.”

Trial and error is a wicked process

So, no cartographic skills and no formal training as a designer? Kenneth Field would surely cry, surely not?!

“Then came making a ball. This was the beginning of my introduction to the world of tolerance. I found several companies prepared to make a 50cm sphere mould, but the moulds were neither round, often had plateaus on and were far from accurate. Now, I know that the actual globe is not exactly round, but that’s not really the point. In the end we relied on Formula 1 fabricators to make our moulds. The reason being that when you have a tolerance (error) on a sphere, you might as well multiply this by Pi (3.14159 etc). If you can imagine sticking 24 pieces of map on a sphere and each one is 0.1mm too small you have a 2.4 mm gap to contend with.”

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If Carlsberg did map galleries...  

About a year ago, I was asked by Steven Feldman (KnowWhere Consulting), Chair of the 2013 FOSS4G Conference, if I’d be interested in organising and curating a map gallery and awards for the event. I jumped at the chance. The conference was being held in my home town of Nottingham, UK and it was an honour to be charged with helping out my geo-friends in this way. Drawing upon experience of being both a participant and organiser of such events, the challenge to help make a truly memorable conference was too good to pass up.

I worked closely with Rollo Home (Ordnance Survey Survey) and Barry Rowlinsion (Lancaster University) to organise what started out as an experiment but ended up as a triumphant centrepiece to the conference. The map gallery was supported by both the British Cartography Society and International Cartographic Association to get the platform for people to share their work that resonates with those who are making maps.

We’ve had over 70 submissions, which combined web maps, videos and static maps (in PDF form). And I have to say that, as someone who often bemoans the lack of quality in modern cartography, I was hugely impressed. There were some truly impressive maps and, on the whole, the collection represents a time-slice of map-making that showcases the state of the art as it stands. Sure, the tools to make maps are progressing at an astonishing rate, and maps will mature and become far more nuanced as products, but this is where we are at currently.

I invite you to head over to the FOSS4G Map Gallery (http://2013.foss4g.org/conf/gallery) and take a look for yourselves. You’ll find one or two maps you may have seen before and a whole load you haven’t. There are maps made by people you’re no doubt familiar with and many more from names you’re probably going to hear far more of in the coming years.

An astonishingly simple web map

There were a number of prizes on offer for entrants to the map gallery competition. The categories of best data integration, best software integration, best cartographic display, best static map (digital display), best anti-map, best web map application and most unique map were judged by an independent international panel of map experts. The results were announced during the closing plenary on Saturday 21st Maptember (yes, the month of September was hijacked because of the sheer number of geo-events taking place in the UK).

The overall winner was an astonishingly simple web map showing the shafts of sunlight that align with the streets of Manhattan, New York City on each day of the year. Called NYCHeineken, the work was a beautiful example of modern, interactive cartography, which was simple, innovative and informative. Other category winners included Charley Glynn of Ordnance Survey for his London Galaxy, Ollie O’Brien (University College London) for his Bike Share Global web map application and Christopher Wesson (Ordnance Survey) for a static map (PDF format) showing the migration of post-accession EU citizens to the UK. John Nelson of IDV Solutions came away with the People’s Choice, voted for online by the global community for a ‘spoof’ map showing the Global Sharknado Threat. Quite simply, it was eye-catching cartography and a terrific piece of work. Other notable mentions should go to Anna Butler for London – By Hand, a beautiful map drawn by hand and based on OpenStreetMap data. It’s simply not possible to name every winner, runner-up or, indeed, the mass of great work that formed the gallery that didn’t win but is worthy of mention.

I mentioned the gallery was experimental, so how do you organise such an installation? Well, the call for maps was fairly standard but participants submitted their work using an online form. We collated the work behind the scenes and used it in a number of ways. We took screen shots and sample images at several resolutions as well as capturing short clips of live web maps and then built several ways to view the gallery. First of all, we were extremely grateful to our friends at CASA who loaned us their iPad wall. Barry Rowlinsion built the backdrop to allow us to show moving pointers of the entries. It was a terrific way to showcase the conference to view the work. The gallery itself lived online and links for voting for the People’s Choice award were placed here to allow voting.

The winners of the awards were announced during the closing plenary and they received an engraved crystal globe and a certificate. Runners-up also received a certificate.

The future of cartography has already arrived!

Overall, the conference was a huge success. Over 860 people attended and were treated to 200 workshops, sessions and keynotes. The entertainment was terrific and the event raised a considerable amount of money for OSGeo as well as MapAction. The map gallery has been described as a ‘phenomenal success’ and a part of the legacy of the event. Wired magazine picked up on the map gallery and this provided additional exposure to key audiences. I was privileged to be able to contribute to the event as organiser and curator, which also positioned BCS and ICA as key to the idea of ‘quality’ in map-making. We set a new standard for how map galleries should be run at conferences and developed a way for a global community to not only share but also participate in the event. It takes considerable effort to organise them to run this way but the benefits are there for all to see. I genuinely encourage you to take a look at the gallery. Be impressed. This is the future of cartography and it’s already arrived!

The next FOSS4G conference will be held in Portland, Oregon in the United States and certainly has something to live up to given the fantastic response. The Nottingham local organising committee have received for their efforts. I’d like to think we might also take some pointers from the event as we look to develop our own Symposium; inspire greater inclusivity and relevance and understand how we showcase our own awards. Food for thought.

By Kenneth Field 
FOSS4G 2013 Map Gallery 
Curator, Redlands CA

Above: The iPad wall loaned to FOSS4G by CASA.
Left: The FOSS4G Map Gallery showcases some truly impressive modern maps – head over to http://2013.foss4g.org/conf/gallery and see for yourselves!

Main image: far left: The engraved crystal globes from the FOSS4G Map Gallery awards (with Steven Feldman).
moved to Guernsey in 1962 and soon started to explore the interesting and numerous network of roads and lanes. Discussions with historians seemed to indicate that the network had come about due to laws of inheritance. Following the death of a landowner, the children were assigned property, not in one plot but in a number of holdings around the area. Each would inherit the same proportion of arable, grazing, unworkable and barren land such as fer skeptic the idea but offered £115 plus 5% royalty for the publishing rights. I was convinced that the book of maps would sell well so went to see Guernsey Press. The offer from them was identical but with a lower royalty. Disheartened I took a while to consider the options. I could not afford to publish it myself.

With the map content finalised and the index being typeset I added other material which would be useful to the reader. Details of road traffic regulations, place names translated into English and further indexes to places of interest, schools, churches and States departments. The publishers set to the task of selling space to businesses in a new publication – not an easy task. I went first to Guernsey Lithoprint Ltd who were sceptical of the idea. The offer from them was identical to the publishers. The map went on sale for £1.25 and I had a great deal of help with road and area names from parish constables (an official, not a policeman). Another aspect of the publication that I wanted to emphasise was the use of the page map reference by advertisers to locate their premises. This has been so successful that the map ref is still widely used in the media, by the police and judiciary. The strip at the base of each page meant that premises on the page could advertise there. I was aware that the A-Z title was a registered trade mark so I avoided it’s use. It was a real pleasure to undertake this research myself, especially when I found a new name for a road.

The next step was to add names to the roads, lanes and areas from the rating and historical sources. Instant lettering was used for the first edition but later maps were hand lettered. As each map was completed the road index was compiled in typescript, the PC age being some 20 years in the future. No map of the island had ever contained a detailed index and the plethora of French names meant that to create a novel way to place the names in alphabetical order. I placed the core name with the prefix out in front. This did cause an interesting problem for early typesetters but is more accepted today.

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**Problem for early typesetters**

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**Index sample:**

La Grande Route de la Corbinerie
Castle Hill
Rue de la Garenne
Cleveland Avenue

**Finding a publisher**

With much of the drawing and index complete by August 1967, the next step was to find a local publisher. I went first to Guernsey Lithoprint Ltd who were sceptical about the idea but offered me £115 plus 5% royalty for the publishing rights. I was convinced that the book of maps would sell well so went to see Guernsey Press. The offer from them was identical but with a lower royalty. Disheartened I took a while to consider the options. I could not afford to publish it myself.

With the map content finalised and the index being typeset I added other material which would be useful to the reader. Details of road traffic regulations, place names translated into English and further indexes to places of interest, schools, churches and States departments. The publishers set to the task of selling space to businesses in a new publication – not an easy task. I chose a finished size for the book that would fit easily into a coat pocket – or under a policeman’s helmet! The map went on sale for £4/6 and was accepted well.

**New cartographic challenge**

In the following year, the publishers asked me to create a similar map of Jersey. I spent over on my own during the Easter break and found some kind people who would accommodate me for two weeks. Research in Jersey was with assistance from the planning authorities and a full ground survey carried out. Here I also chartered aircraft to fly over large estates and took photographs. The larger Channel Island differed from Guernsey by having a network of numbered arterial and distributor roads. In addition, all roads were clearly named on site. Since this was a commission I was able to leave the payment of royalties to the States of Jersey to the publishers. At no time in either island were Ordnance Survey maps copied. The Jersey map was published with a promotional flourish and my wife and I attended the launch and signing session, which was covered by local media. Many requests were made for a map of the whole of the island so I set about pasting individual pages on to large sheets of card, taking great care to maintain scale. The result was published as a wall map for each island.

One of the first operators to use the wall map concept was the St John’s Ambulance Rescue Service in Guernsey. A large version of the map was printed on magnetic plastic sheet and installed in the control room. Each map page had lights which indicated an emergency and the response situation.

**Another island, another map!**

In 1970 I visited The Isle of Wight and toured bookshops, council offices, etc. Digitised by others in 1992 and now in full colour.

The Lone Cartographer

Roy S. Perry provides a short history of a legendary map making product.

I have long been an admirer of the creator of the London A-Z. Phyllis Pearse walked and cycled many miles to create the atlas, which first went on sale in 1936. It is claimed that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover that she travelled over 3000 miles to create the atlas, which first should not take me long to cover.
History of Perry Maps

Above: A map of Nadur in Gozo completed in 2009

map of Guernsey on to insulation board, which was laminated with plastic and used by various States of Guernsey departments. My efforts caught the notice of the media and an article appeared in the ‘Prufrock’ page of the UK Sunday Times newspaper.

I went to the Isle of Man for a month and produced island maps of Guernsey. The maps were digitised and produced in full colour.

At the outset, it was obvious that it would be a financial risk but I decided to proceed because I felt the map would be useful, not only to visitors but to residents and emergency services. So I accepted the first offer. After 46 years it appears that I was right on both counts, Perry’s Guide has become a household name not only in Guernsey but also in Jersey and the Isle of Wight. I am full of praise for the publishers who have kept the guide up-to-date and in a consistently readable format.

By Roy S. Perry, Isle of Wight

A move to Malta

Eventually my business failed and I had to sell all the rights. The copyright of the Wright map was assigned to the distributor on that island. The Guernsey publishers were taken over by a UK company and they retained my services for a while to continue the up-dating process. Eventually, the firm relocated. My wife had played a large role with research for the map. Publication ceased in 1989 but the rights were taken up by Studio One Ltd in 1992. They were so dedicated to the title that they changed their name to Perry’s Ltd and the team now operates as Coast Ltd in Guernsey. The maps were digitised and produced in full colour.

Looking for further mapping work, I left Guernsey in 1990 and moved to Malta. Once again I did not have the resources to publish but was pleased to find responsibility for the creation of three editions of separate maps for Malta and Gozo. Survey work in 30 degree heat added an extra dimension to the work. The islands are 17% smaller than the Isle of Wight but have a population which is 3.3 times higher. I soon discovered that there are at least 5400 roads! The maps were published as the RMF Road Maps, the company being the principal vehicle breakdown service in Malta.

It took a year for the survey and the first edition of the two maps for Malta and Gozo were hand-drawn on card. The drawings were scanned in 1993 to form the basis of a partly digitised second edition in 1996. Full colour separations were used for the final pair of maps, published in 2000. I had moved from pen and ink to computer graphics and I have tried to keep pace with advances in programs and techniques. I have employed both PC and Mac equipment, with Coreldraw or Freehand applications. My crowning achievement must be the creation of a large coloured wall map of the Maltese Islands, a copy of which resides in the Edinburgh Map Library.

After 2001, I switched to village plans and carried out work for Findern in South Derbyshire and Nadur in Gozo. This last map was completed in 2009, despite losing the sight in my right eye. Now I use Dolphin Supernova Access Suite Speech and Magnification software to carry on mapping.

It is very gratifying to know that the original three maps are still in print and have been enhanced by the use of digital processes. All the revisions have followed the guidelines I laid out in 1967, that of clarity, ease of use and accuracy.

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By Roy S. Perry, Isle of Wight

Working in the Bodleian Library

Libraries are not my natural habitat. However, I’ve spent a few days in the Map Room, which is temporarily housed in the Duke Humfrey Library, a part of the Bodleian. This all came about because Markus Oehrli from Switzerland is planning a publication about Deutsche Heereskarte, the mapping branch of the German Military, and, in particular, about the proof sheets in a number of series produced between 1941-1945. The 120 or so proof sheets I found were stamped ‘Belegdruck’ or ‘Andruck’.

My qualifications for doing this work are very limited. I’m not a librarian, I know very little about German military mapping in the period 1941-1945 and I was advised to give up German after period 1941-1945 and I was advised to give up German after one year at school! My saving grace? I’m a volunteer and free!

All the maps had to be brought from the Bodleian Book Storage facility in Swindon, which is huge. Now this task may sound a bit dull but believe me it wasn’t. If, like me, you are fascinated by maps, and I must have looked at well over 5000, and particularly as an ex-military man, there was always something of interest to see. Apart from the proof sheet stamps there were many others from a variety of agencies, German and Allied, Geheim (Secret), Unique Copy, Cancelled, Captured Map, Army Map Service Library, Geographical Sec General Staff, Directorate of Military Survey, Do not return to DGC, German map library stamps and occasionally an ‘eagle’. The maps stamped ‘Geheim’ were mainly of Spain and Portugal. The maps covered a large area; North Africa, Iran, Iraq, Palestine, Turkey, the Balkans, Central Europe right up to the North of Norway and the road to Moscow, not much detail on the latter. Indeed, the map content varied hugely, not much detail in Iran, Iraq and parts of North Africa but lots of detail in Central Europe and our own doctor OS maps were undoubtedly some of the best.

Many of the OS maps had a German legend and additional military symbology, which often included a square grid in a vivid orange colour. The same grid was used by German Military Ground and Air Forces, which is what you would expect. A point well-made in the maps of the English Channel but more interestingly, the aeronautical chart had a lot of detail removed but the railway lines enhanced as nearly all trains go to London! Some of the North African aeronautical charts had airfield diagrams in the margins showing the runway layouts on the airfields symbolised on the charts. There were maps of France, in part produced using traditional cartography whilst the rest was produced using aerial photography. My final thought, when the job was done, was to wonder who else, German and Allied, military and civilian, had looked at those maps?

By Peter Jolly
Past President

The Bodleian Book Storage facility has a vast collection of fascinating maps, including many German military maps from WWII.
### Omnium Gatherum

<table>
<thead>
<tr>
<th>BCS 2014 CALENDAR OF EVENTS</th>
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<td>21-23 January</td>
<td>DGI Global, QE11 Centre, London</td>
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<td>UK GEOForum Lecture given by David Overton, title: <em>Weaving a New Mapping Genre</em> at RICS, London</td>
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<td>6 March</td>
<td>TOSCA Soviet Intelligence Plans for the British Isles with John Davies</td>
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<td>13 March</td>
<td>Schools and the Great War, How Schools Should Best Prepare, Westminster Hall</td>
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<tr>
<td>27 March</td>
<td>The Great Arc: Military Map makers in India presented by John Key, 7pm at the National Army Museum</td>
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<td><strong>April</strong></td>
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<td>May</td>
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<td>May</td>
<td>TOSCA ‘Strangers in their own land: ideology, policy, and rational landscapes in the US, 1825-1934’ Heathcote Winlow (Bath Spa University)</td>
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<td><strong>September</strong></td>
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<tr>
<td>8-12 October</td>
<td>Map Curators Group Meeting, Birmingham</td>
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### Did you know? **Boxing Day**

Boxing Day is traditionally the day following Christmas Day, when servants and tradesmen would receive gifts from their bosses or employers, known as a ‘Christmas box’. Today, Boxing Day is better known as a bank or public holiday that occurs on 26 December, or the first or second weekday after Christmas Day, depending on national or regional laws. It is observed in the United Kingdom, Hong Kong, Australia, Canada, New Zealand, South Africa and some other Commonwealth nations. In South Africa, Boxing Day was renamed to Day of Goodwill in 1994. In Ireland, the day is known as St. Stephen’s Day or the Day of the Feast of Saint Stephen, which in some churches were used to collect special offerings tied to the Feast of Saint Stephen, which is the Western Church falls on the same day as Boxing Day. In Britain, it was a custom for tradesmen to collect ‘Christmas boxes’ of money or presents on the first weekday after Christmas as thanks for good service throughout the year. This custom is mentioned in Samuel Pepys’ diary entry for 19 December 1663. This custom is linked to an older English tradition: Since they would have to wait on their masters on Christmas Day, the servants of the wealthy were allowed the next day to visit their families. The employers would give each servant a box to take home containing gifts and bonuses, and sometimes leftover food.

### A Celebration of 50 years of The British Cartographic Society

To celebrate our 50th Anniversary the BCS has produced a book marking 50 years of mapping excellence. Travel through the past 50 years of selected historical events illustrated by mapping from around the world.

Available from the BCS Admin office for only £15.

To obtain your copy of this beautiful book contact Roger Hore at BCS Admin on admin@cartography.org.uk

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**Lost Rivers of London**

The Falcon is the last of London’s lost rivers that we are featuring in Maplines. This series started in the summer edition of 2008 with the Stanford Brook. Since then we have featured all the rivers illustrated on the map, left. London is a rich and diverse place which hides many secrets. The Maplines team are keen to hear from anyone who has any interesting and not so well known facts or information about our great capital city.

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**Lost Rivers of London #15**

The Falcon: the Falconbrook, or Falcon, springs on Tooting Bec Common, flows under Battersea and enters the Thames at Battersea. It burst out of the pavement of Falcon Road (named after the stream) in Clapham Junction in July 2007 during floods that affected large parts of England.

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**BCS AGM and talk by Nick Crane**

Following BCS’s AGM on the 25th November where Ann Sutherland and Dr Seppe Cassetari both received honorary fellowships, Nick Crane, the broadcaster and travel writer gave a most enjoyable talk about his many unique journeys around the globe. A good end to our 50th year.
Did you know 2013 is the 40th anniversary of the Bonn press conference where Arno Peters launched his (in)famous map projection on the world stage and also the 30th anniversary of the publication of his book, Die Neue Kartographie/The New Cartography? While 2014 is the 25th anniversary of his Peters Atlas of the World. How time passes!

Many, if not most, cartographers were and remain antipathetic to Peters’ entire cartographic project, attacking his projection as either a poor basis for world mapping, or as simply a ‘reincarnation’ of the late nineteenth century ‘Gall orthogonal’ (thereafter christened ‘Gall-Peters’). Some even resorted to sarcasm – for example, the tart comment attributed to Arthur Robinson that the continents resembled “wet, ragged long winter underwear hung out to dry on the Arctic Circle”. Denis Wood went as far as to describe Robinson’s attack on Peters as perfidious and vitriolic. This afforded me an ideal opportunity for anyone with editorial and editing experience to make a valuable and enjoyable contribution to the Society.

As ‘bloody’ as cartography is likely to get

Some of us found it hard to condemn his map entirely, but we also found the wholesale, uncritical adoption of his projection by the UN and by Oxfam and other development agencies bewildering. The odd person, such as Pamela Gruber, working for Christian Aid, understood its real value – to shock (for a while at least, until the map inevitably became common-place) and to force people to question their views of the world. Sadly she was in a minority and most others simply accepted it as the ‘politically correct map’. I attempted to walk a careful line that acknowledged the fact that he almost single-handedly raised public consciousness of the importance of cartography in the 1980s, while, as a teacher and writer on cartography, I sought to inform potential users of the wider family of appropriate projections. As map adviser in the 1980s to the World Development Movement (WDM), I convinced that organisation to use another equal-area projection in its publications, only for WDM to be lambasted by an aid charity for using the ‘Mercator’ – which was nonsense. Others, like Ward Kaiser and Bob Abramms, of ODT in the US, and Denis Wood in his classic, The Power of Maps, have recognised the role that Peters has played in alerting people to the potential bias in cartography. In general, however, the debate has been destructively polarised and as ‘bloody’ as cartography is likely to get in the modern era.

Biased maps still abound

So why raise the ghost of the Peters’ controversy again? Surely the debate has been long laid to rest beside the man; his projection has generally gone the way of many others – still used by a few dedicated followers, but snuffed or ignored by the majority of map producers? For goodness sake, he has even been relegated to a note in parentheses in Dodge, Kitchen and Perkins’ recent book, The Map Reader. The reason we need to revisit his legacy is the fact that cartographers, despite claiming that they had been informing map producers and the wider public of the need for appropriate projections long before Peters’ intervention, have signally failed.

Books, newspapers and magazines continue to circulate grossly inappropriate and biased thematic world maps; some even using the 1569 Mercator projection, which Peters had (allegedly) misused as a ‘straw man’ to attack traditional cartography. If professional cartography has been so successful in informing the community of users, why has the New Scientist just published a double page thematic map based on the Mercator projection in its 12 October 2013 edition? The article on geo-engineering would have been much better served had it used an equal-area projection – as is it, its format and use of colour is more reminiscent of twentieth century propaganda maps than a serious modern information-graphic. If we cannot expect a respected science news magazine to understand and use appropriate maps what chance have we? Sadly, the New Scientist has a history of poor choice of map projections, including use of non-equal area maps, such as the world major biomes. It has even fallen into the fundamental error of mapping missile ranges as perfect concentric circles on a rectangular map projection, ignoring what we know about Great Circle routes (“Why the US’s Star Wars missile defense lives on” 26 Sept., 2009), instead of using the correct equidistant ‘polar style’ projection for each launch site (see Maplines Winter 2009, for detailed discussion of this error across the UK news media).

How do we get the message out there?

The New Scientist is, however, only one of many news producers that have failed to adopt appropriate projections. Surveys I have undertaken since the 1990s have shown this for the UK news media in particular, but the problem of a lack of cartographic understanding is much, much more widespread. Rendgen and Wiedemann’s Information Graphics (2012, Taschen), which ‘show-cases’ best practice in IG, is illustrative of the muddle we are in. While there is much innovative design involving maps in this epic book (weight it!), the adoption of appropriate world maps is extremely mixed; from some beautifully crafted images from National Geographic (e.g. the Rivers of the World poster 2007) to the grossly exaggerated Mercator-like projections used for a series of thematic maps in Wired in 2008. The state of the art is mixed!

Good cartographic knowledge is fundamental to the production of high-quality information-graphics. How do we get the message out there? I think we desperately need another Arno Peters – if not to lead the way, at least to provide cartographers with someone to take pot-shots at – at least that way we might again get a little attention! Arno – I toast your memory with a glass of red wine as I write this last sentence!

E D I T O R  V A C A N C Y

The Maplines team is looking for a replacement volunteer editor starting in January 2014. This is an opportunity for anyone with editorial and editing experience to make a valuable and enjoyable contribution to the Society.

Duties include the collection and editing of material to appear in Maplines magazine, which currently has three editions per year; working as part of the editorial team to coordinate the compilation of the magazine in conjunction with PV Publications, our production company; making a positive input to the future development of the magazine.

Interested? For further details about volunteering for the BCS, or to apply for the role of volunteer editor, please contact Martin Lubikowski, Chair of Publications, by emailing to maplines.editors@gmail.com.
Carotographers have so much information at their disposal via the web – but web mapping has brought with it new challenges. For BCS 50th anniversary celebrations, Jack Dangermond, president of Esri, recently addressed members in an inspiring lecture on how GIS and Web Cartography are extending the reach of mapping.

In the historic surroundings of the RAG Chemical Society, Dangermond acknowledged that cartography is central to GIS. But he suggested that GIS has quickly moved from relying on a single underlying database to produce relatively few products, to enabling the real-time generation of many products from multiple databases. The data is coming from various sources like social media and crowd-sourcing – the challenge is to integrate it and extract actionable information. As a consequence, Dangermond believes that Web GIS will transform cartography.

In the early days of GIS, products tended to be analytic and maps were rather basic. The objective was to collect data once and use many times. At first this was not always possible but now the tools available are more sophisticated and automated map generalisation is possible. Dangermond cited the recently completed SwissTopo 1:25,000 scale dataset, which has about 70% of the country covered. This 1:50,000 scale mapping as entirely automated processes. GIS is a means of understanding and communicating with visual overlays of data using new methods and best practice for websites will develop.

WebGIS can integrate information through dynamic linking between an object and associated multimedia, with visual overlays of data using mash-ups and through spatial analysis modelling from distributed datasets. It will break down barriers and work towards a common operating picture. But it will also need a new kind of cartography and will be powered by many other web services. Portals, powered by new, light-weight metadata tags, will help users to search for and organise content. This will enable sharing between ‘friends’ in the same way as social media and will encourage selection of content from various interchangeable sources.

WebGIS will also bring 3D ‘Web Scenes’ (an Esri term) and real-time mapping. We are familiar with 3D but real time is a new data type, which will need special attention. Cartographers have to transform cartography to make a real impact.

Joining it all up

Organised through new portals, web GIS is accessible from any client and will always be available to everyone and it will look more like social media. By transforming GIS into Web GIS, almost anything can be integrated into any processes, organizing the people. ‘Geography can bring all the ‘ologies together’. Web maps are distinct, integrated data for social media and the web model means there are many disparate databases in the cloud. Visual overlays are easy and ‘mash-ups’ will drive the emerging world of spatial analytics.

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I am afraid that it is that time of the year again when the Christmas orders and Christmas cards are due for renewal. Following the practice of previous years, all those members who do not pay by credit/debit card or by cheque will have received their renewal forms.

New Members

The Society has the pleasure of welcoming the following new members who have joined the Society since the publication of the Summer 2013 edition of Maplines.

Corporate Members:
No 1 AIDU, Google.

Educational Members:
Our Lady’s Convent High School, Godalming Sixth Form College.

UK Members:
Mr T J Bidgood, Mr C J Coates, Mr R J A Coates, Mrs M Elvidge, Mr N T Gardner, Mrs S A. Hannah, Mr L Harvey, Miss J M Hussey, Mr S Kaczor, Mr N Monik, Ms C Pearce, Miss C Retief, Miss S Sasaki, Mrs K Vuic, Mr S Wheeler.

Overseas Members:
Mr M Azirl, Mr O Essen, Mr B J Muhewi.

UK Associate Members:
Mr K N Baker, Mr R J Karlovich, Miss A Makati.

And finally

I would like to thank all those members who returned their ballot papers; the response this year was the highest for quite a few years. The decision was unanimous and the better the cartography, the better the cartography, the more effective GIS will be. The real-time generation of many products is amazing in comparison. Now timescales needed to produce maps are greatly reduced and efficiency levels in map production greatly increased. Much of the demand for instant mapping on websites, to visualise when we are on the move, on whiteboards etc and I would suggest more maps are created for this market than for print. So are we looking at the death of the paper map?

I am writing this just a few days after the Philippines was tragically hit by typhoon Haiyan. The paper map will always be needed in these relatively short period of time. Digital mapping and GIS have opened the door to many opportunities that didn’t exist just a few years ago. The scope and flexibility we have now when communicating with visual overlays of data using new methods and best practice for websites will develop.

By Stephen Booth, Richard Groom and Robin Waters, PV Publications Ltd.

Future of Cartography

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By Stephen Booth, Richard Groom and Robin Waters, PV Publications Ltd.
Quiz – GEO Business 2014

Can you guess the names of the ten National Parks for England made up from the Ordnance Survey Open Dataset ‘OS Terrain 50’. Contains Ordnance Survey data © Crown copyright and database right 2013. Our winter quiz is sponsored by GEO Business 2014.

Please send your entries to maplines.editors@gmail.com with the subject line ‘Winter 2013 Quiz’.

Congratulations to Gerry Zierler, from North London, who was the winner of the Summer 2013 quiz.