

## **ARCS Skipper** **Digital Charts for the Leisure Mariner**



## ARCS Skipper

The United Kingdom Hydrographic Office (UKHO) was established in 1795, when the first Hydrographer to the Navy, Alexander Dalrymple, was appointed by order of King George III. Today, the UKHO continues to perform an essential role supporting safe navigation at sea and is the world's premier supplier of navigational charting products with a worldwide folio of over 3,390 charts and 220 publications.

An ever-expanding range of digital products and services complements the world famous Admiralty paper chart, and the Admiralty Raster Chart Service (ARCS) is now used by the giants of the commercial shipping world as well as the Royal Navy and the RNLI.

In 1996 ARCS became available to the leisure mariner in the format of ARCS Skipper, a service specifically designed to meet the requirements of safe navigation whether racing or cruising.



## Raster Charts

Today Admiralty paper charts are produced and prepared for printing on digital bases, by our team of highly qualified and professional cartographers. Each pixel that makes up the chart image is then geo-referenced to give it a latitude and longitudinal position, making an 'intelligent' electronic chart that can be linked to a GPS in order to give real-time navigation.

The ARCS chart image is unparalleled by any other vector or raster chart available today because it is taken directly from the original digital base. This means that all ARCS charts have the same familiar image and use the same internationally recognised symbols as the paper chart series, produced to the Admiralty's exceptional standards of quality and accuracy. It is little surprise therefore that ARCS was used on the 2000 BT Global Challenge, The Times Clipper 2000, on board four of the yachts in the Volvo Ocean Race as well as on board David Scott Cowper's Polar Bound Expedition.

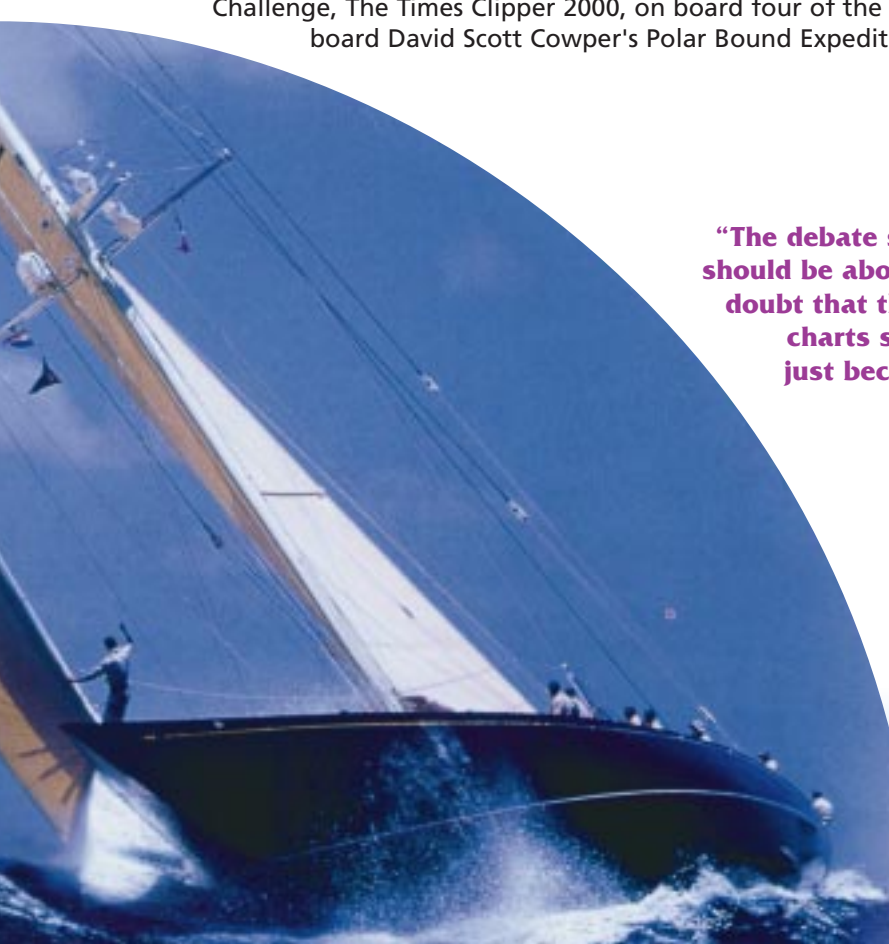
**“The debate should not be about raster versus vector; it should be about good chart versus bad chart. There is no doubt that the UKHO's reputation for producing quality charts stands before them and this will not change just because their charts are available in electronic format.”**

Penny Haire  
Chief Cruising Instructor RYA

## The ARCS Skipper Service

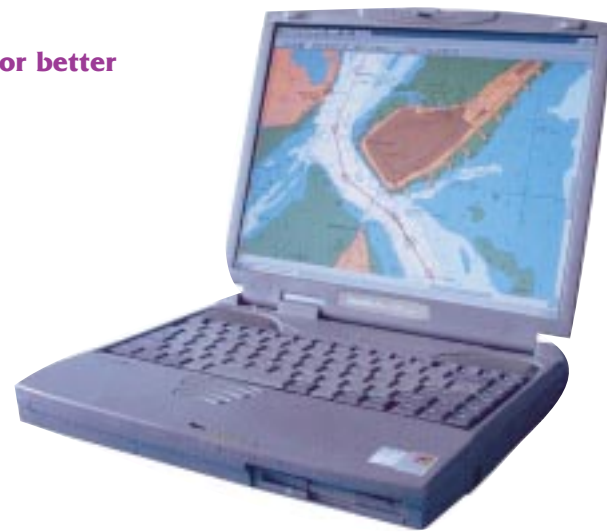
**ARCS Skipper is the leisure version of the world renowned Admiralty Raster Chart Service.**

- **Can be run on a standard Laptop PC.** No expensive outlay on a single-use item. A PC is fast becoming an essential tool on board and can be used for a wealth of other purposes, such as communication, downloading weather information, keeping the ships log or acting as a remote office.
- **Admiralty data and cartography.** Every ARCS chart is produced to the Admiralty's exceptional standards of quality and accuracy, enabling you to navigate with complete confidence.
- **Chart quality and clarity.** Produced directly from the digitally held chart bases, ARCS charts offer unparalleled clarity and quality of image reproduction. If you've been navigating with paper charts for years, you'll feel instantly at home when you look at an ARCS chart.
- **Easy and safe to use.** No vector data means no layers of information to switch on or off. Our professional cartographers and experienced navigators decide what information is required on each chart to ensure safe navigation, nothing more, nothing less.
- **Up to date.** All ARCS charts are sold fully up to date at the point of purchase.
- **Freedom of choice.** At the UKHC our expertise is in producing the very highest quality and most accurate charts. Any functionality in terms of navigational tools comes from separate navigational software. This is a key benefit to you the customer since it gives you the freedom to choose the type of software that is most suited to you. Do you want a basic, easy to use chart plotter, or a complex racing package that enables you to account for weather and tides and analyse performance, giving you a competitive edge? Do you want a Bluewater cruising package providing safe, efficient routing or power boat specific software monitoring fuel consumption, planned route and fast tracking? The choice is yours. Any of our software providers (listed in the back of the brochure) will be happy to advise you on the ideal product to meet your specific needs.
- **Real time navigation.** Link the laptop to your GPS and watch your vessel track across the chart. Knowing exactly where you are at all times offers improved safety and the freedom to enjoy your cruising or concentrate on racing. This also allows power boats to track their course across the chart taster and to look further ahead, making travel at speed much safer.
- **Updating freedom.** Unlike many other electronic charting packages available today, ARCS Skipper enables you to update your charts. By subscribing to the update service, you have the freedom to automatically update your portfolio of charts whenever you want over a 12 month period.
- **Flexible Planning.** Having your charts on a laptop computer enables route planning at home.
- **Flexible Purchasing.** With the ARCS Skipper Service, you are given an area CD containing every Admiralty chart for a given area, (Mediterranean and Black Sea for example). The codes are then provided to unlock the particular charts you have purchased. This means you can carry an entire portfolio of Admiralty charts at all times and unlock additional charts with a quick phone call to your chart agent. Complete freedom and flexibility to explore or get fast access to additional charts in an emergency.



## System Requirements

- IBM compatible PC (or laptop) with a 200Mhz processor or better
- 16mb RAM or better
- Minimum 50mb HDD storage
- CD Rom
- Operating System: Windows 95, 98, 2000, XP or NT.
- 3.5" floppy drive




## Updating

Updating your ARCS charts is quick and easy. If you subscribe to the update service, you will be sent an update disk on request either once or four times over a 12 month period at your discretion. Simply load this update disk onto your hard drive and sit back while your computer automatically corrects all of your charts to the latest Notices to Mariners.

## Chart Coverage

Take your pick from more than 2 900 ARCS charts around the world. You have the choice of buying individual charts, selecting one of the Skipper Folios (pro-set to provide coverage of popular sailing areas) or selecting your own folio of 10 charts.

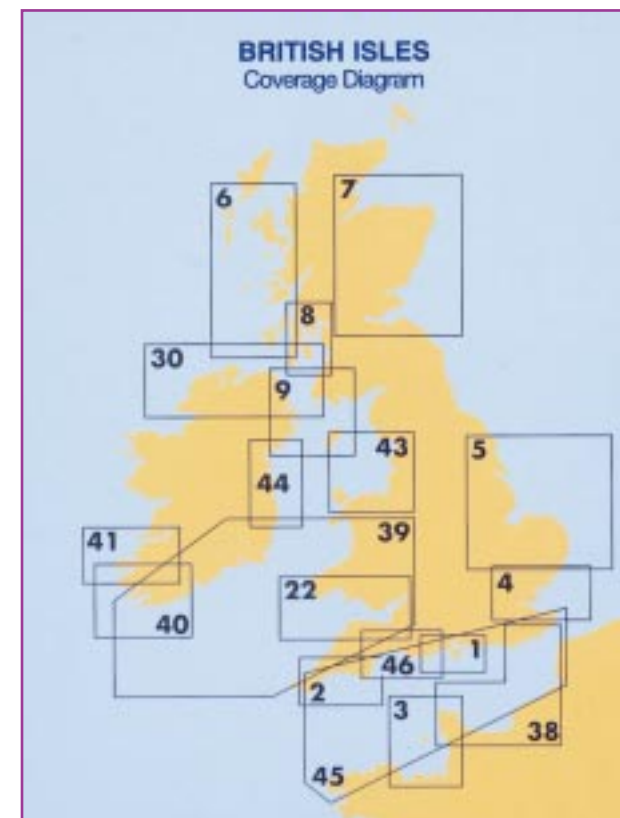
For individual ARCS charts please refer to Admiralty Chart catalogues. All Northern European charts are available in ARCS format. In other waters, ARCS charts are denoted by the symbol  next to the chart number.



## ARCS Skipper Folios

Each Skipper folio comprises 10 charts, and is a much more cost effective method of buying charts

## British Isles Coverage



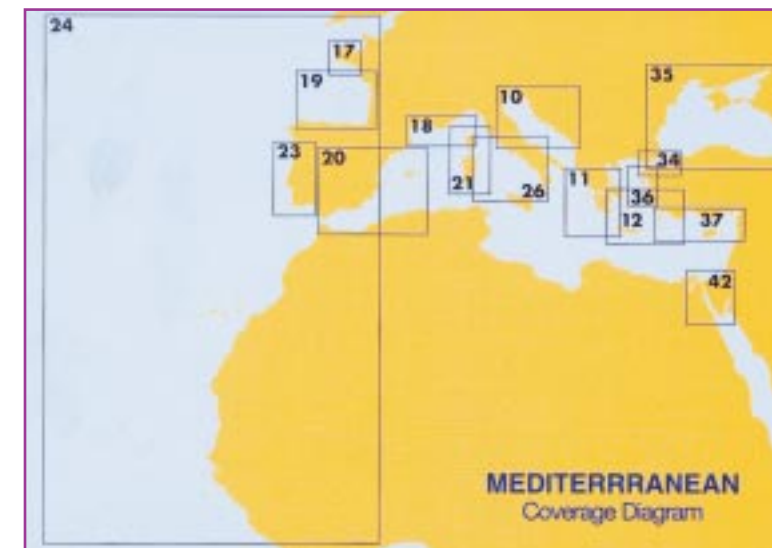
- Folio 1 - England - the Solent
- Folio 2 - England - South West Coast
- Folio 3 - The Channel Islands
- Folio 4 - England - Thames Estuary
- Folio 5 - England - East Coast
- Folio 6 - Scotland - West Coast
- Folio 7 - Scotland - East Coast
- Folio 8 - Scotland - The Clyde
- Folio 9 - Northern Ireland to Isle of Man
- Folio 22 - England - Bristol Channel
- Folio 30 - Northern Ireland - North Coast
- Folio 38 - France - North Coast
- Folio 39 - Republic of Ireland - South East Coast
- Folio 40 - Republic of Ireland - South Coast
- Folio 41 - Republic of Ireland - South West Coast
- Folio 43 - England - North West
- Folio 44 - Ireland - East Coast
- Folio 45 - English Channel Planning Charts
- Folio 46 - England - South Coast

- Folio 25 - German Bight
- Folio 27 - Skagerrak & Kattegat
- Folio 28 - Entrances to The Baltic - West
- Folio 29 - Entrances to The Baltic - East
- Folio 31 - Gulf of Finland
- Folio 32 - Baltic Sea Central
- Folio 33 - Saaristomeri & Entrance to Gulf of Bothnia

## North West Europe Coverage



## Mediterranean Coverage



- Folio 10 - Adriatic Sea
- Folio 11 - Ionian Sea
- Folio 12 - Aegean Sea - South
- Folio 17 - France - Brittany Coast
- Folio 18 - France & Italy - Mediterranean Coasts
- Folio 19 - France & Spain - Biscay Coasts
- Folio 20 - Spain - Balearic Islands
- Folio 21 - Corsica & Sardinia
- Folio 23 - Portugal
- Folio 24 - Acores & Madeira
- Folio 26 - Italy - West Coast
- Folio 34 - Turkey - Sea of Marmara
- Folio 35 - Black Sea
- Folio 36 - Aegean Sea - East
- Folio 37 - Turkey - South Coast & Cyprus
- Folio 42 - Suez and Red Sea

## Netherlands Coverage



- Folio NL 1801 - North Sea Coast, De Panne to Den Halder
- Folio NL 1803 - West Schelde, Veerse Lake to Grevelingen Lake
- Folio NL 1805 - North Sea Coast, De Panne to Den Halder
- Folio NL 1807 - Zoommeer, Volkerak en Spul, Haringvliet, Hollandsch Diep
- Folio NL 1809 - The New Waterway, Nieuwe en Oude Maas, (New and Old Network) Spul en Noord, Dordische Kil, Brielse Lake
- Folio NL 1810 - Usselmeer, Bandmeren and the North Sea Canal
- Folio NL 1811 - Waddenzee Westblad (West) and adjoining North Sea Coast
- Folio NL 1812 - Waddenzee Oostblad (East) and adjoining North Sea Coast

- Folio 13 - Bahamas
- Folio 14 - Caribbean Sea - Inter-Island
- Folio 15 - Caribbean Sea - Leeward Islands
- Folio 16 - Caribbean Sea - Windward Islands

## Caribbean Coverage



## Frequently Asked Questions

- Q.** Computers and water do not mix. Can I realistically use a laptop to navigate on board?
- A.** Yes you can. ARCS was successfully used in the BT Global Challenge under extreme conditions also in the Times Clipper 2000 round the world yacht race. They are David Scott Cowper's charts of choice for his Polar Bound expedition and were used on the 2001 Fastnet race.
- Q.** What are the benefits of using ARCS on a lap top PC over a different chart format on a dedicated plotter?
- A.** The image on a laptop is much clearer. better defined, looks like an Admiralty chart and is typically displayed on a larger screen. Also a laptop computer has a number of additional uses and is usually less expensive than a dedicated plotter.
- Q.** Are raster charts better than vector charts?
- A.** Both formats have their advantages. However Admiralty Raster Charts are the official electronic charts produced by the United Kingdom Hydrographic Office. They are also fully updateable and have exceptional clarity and quality of image reproduction.
- Q.** What do I need in order to get started in electronic charting?
- A.** You will require a laptop PC with a CD ROM and a floppy disk drive some separate navigational software (please see the list of suppliers in the back of this brochure), and your ARCS Charts.
- Q.** How does the update service work?
- A.** You choose how frequently you wish to update your charts (either once or 4 times over a 12 month period) and then subscribe to that level of service. Whenever you wish to update your charts, simply contact your supplier and they will issue you with a CD containing the latest chart updates. Insert this CD into your computer and it will automatically update your portfolio of charts.
- Q.** What will it cost?
- A.** For a full list of prices, consult the price list in the back of this brochure It is important to note that once you have purchased an ARCS chart, you have that chart for its life. All that is necessary for safe navigation is to ensure that you subscribe to the update service.
- Q.** How do I buy ARCS charts?
- A.** ARCS charts are available from most software suppliers or some of the larger Admiralty Chart Agents listed in the back of this brochure



**THOMAS GUNN** navigation services

SERVING THE SHIPPING INDUSTRY WORLDWIDE

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