## ENC'S & ECDIS A View from the Bridge



Captain Michel Claveau

#### Software Uploading

 There have been no issues with uploading new ENC permits from our approved ENC dealer (Marine Press of Canada).

#### ENC Updates/Corrections

- We presently utilize an email ENC updating service.
- A benefit of this service is updates can be loaded immediately.
- There is no delay while waiting for the BA-AVCS discs to arrive in the mail; which can sometimes be weeks later.

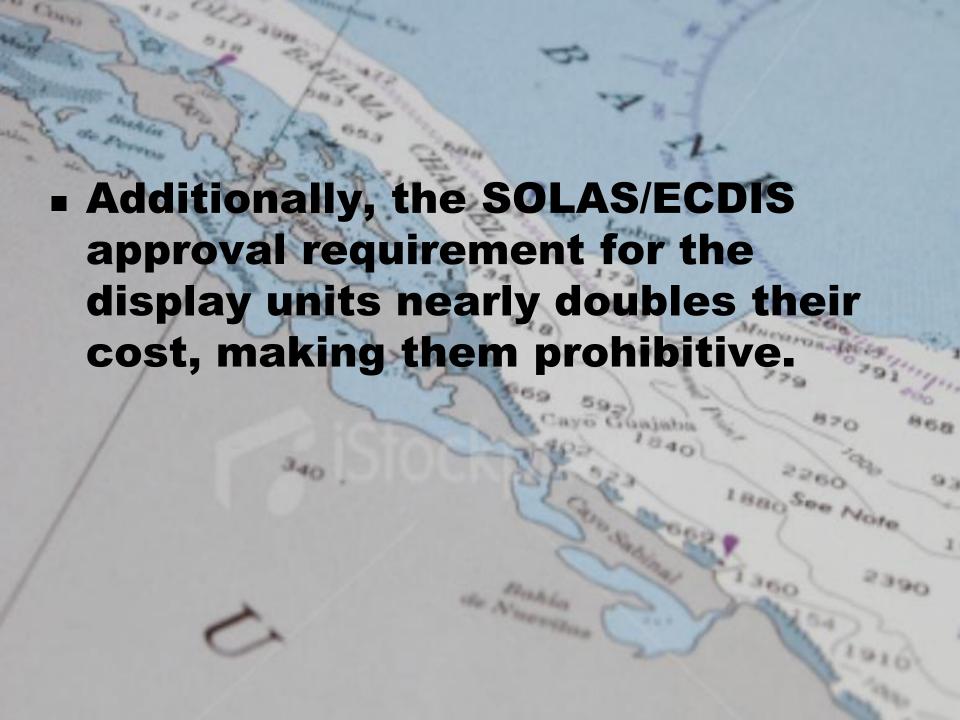


On the other hand, ENC updates from BA-AVCS Discs are more efficient and the updates take place on each computer of the ECDIS network simultaneously.

 There have been no issues with updates utilizing the BA-AVCS Discs.

# Voyage planning utilizing Video Display Units vs use of Paper Charts of the appropriate scale

Large "chart sized", high definition, flat-screen technology is available on the market. However, due to their very expensive price tag, few ships are fitted with these display units.



- When Voyage Planning on smaller display units, the working windows are often too small.
- It can be very difficult to see small chart details without zooming-in considerably.
- When zooming-in, one loses the "overall" broader picture of the Voyage Plan.

 Lower definition display units cause loss of picture contrast and sharpness.

 LCD Flat Screen display units emit significant background light that prevents the retention of night vision during navigation

#### Quality of ENC data

 Significant improvement in ENC chart data has been noted in the last few years.

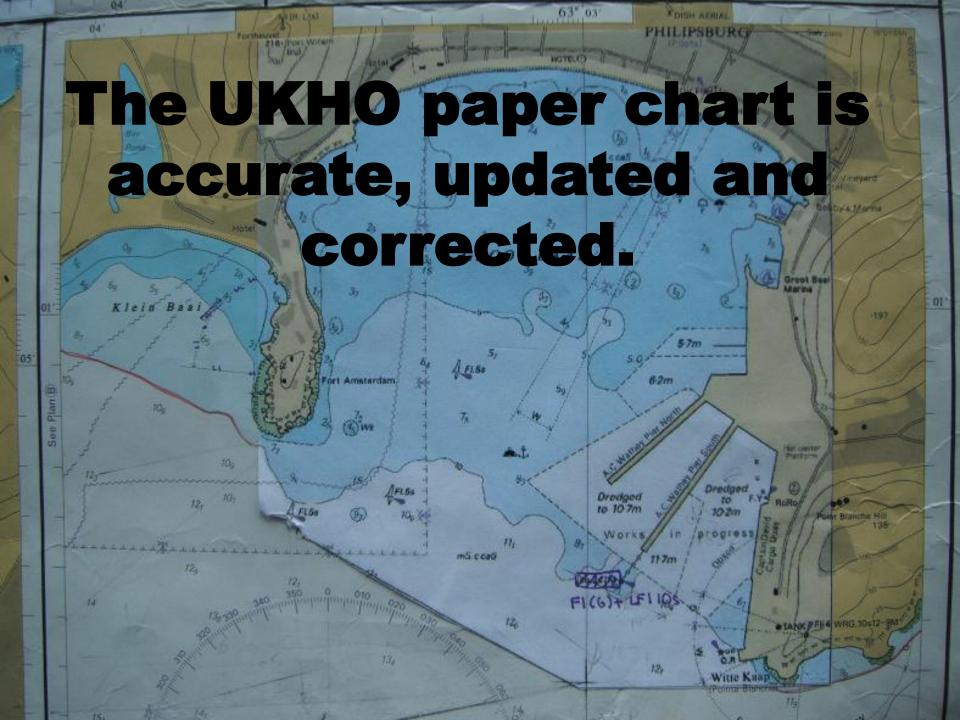
 Alignment of chart features with WGS84 datum has improved with negligible off-set observed.  ENCs are providing the most up-todate hydrographic chart data.

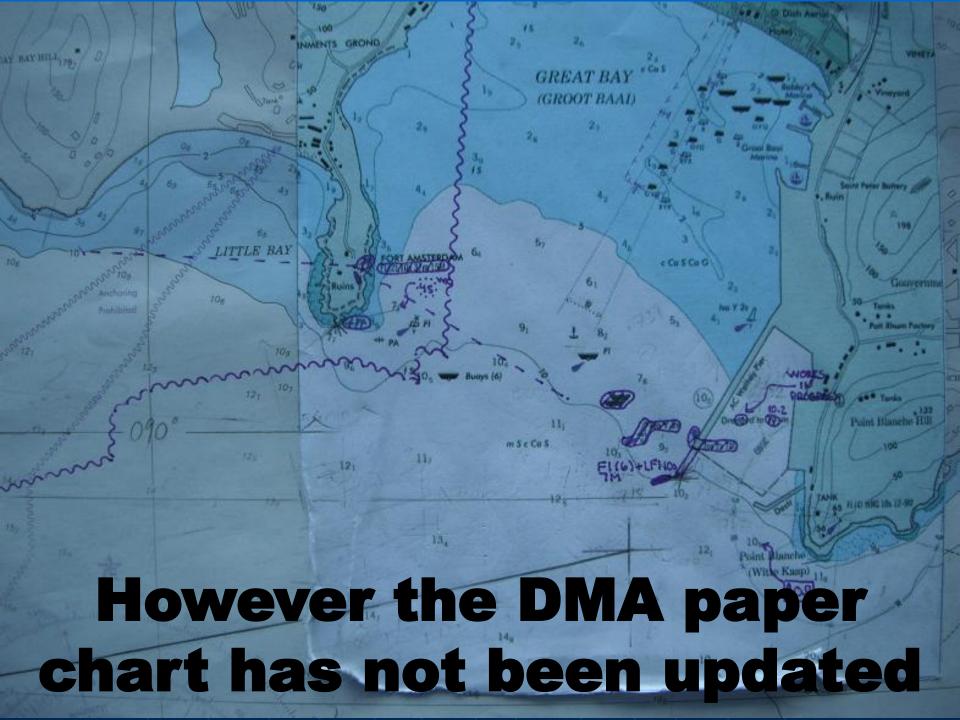
 Some paper chart editions are lagging behind.

 At times, paper chart corrections and updates are delayed or not forthcoming.  Occasional corrections that can be identified on the ENCs are found missing on the paper charts.

Here is one example:







### Presentation of ENC information

 Although gaps in electronic chart coverage are much fewer than before, there remain some transitions from one chart coverage to another where gaps exist or there is a large difference in scale.  Luckily these irregularities are mostly found on small scale charts, so it is not so critical.

 The default Depth Contour feature is not accurate at this time and could be improved.

#### Other Considerations

 ENC information is extremely limited in detail for areas we do not have permits for.  When generally planning for new voyages, instead of using the **ECDIS**, it's sometimes necessary to use Google Maps to locate ports; since the "World" ENCs do not show the names of places or significant features, even when zoomed in.

 Providing the names of Islands, Ports, Cities, Rivers and Harbors on both the "World" planning and navigational charts would be very beneficial where the specific area permits are intended to be purchased at a later time.

#### Looking to the Future

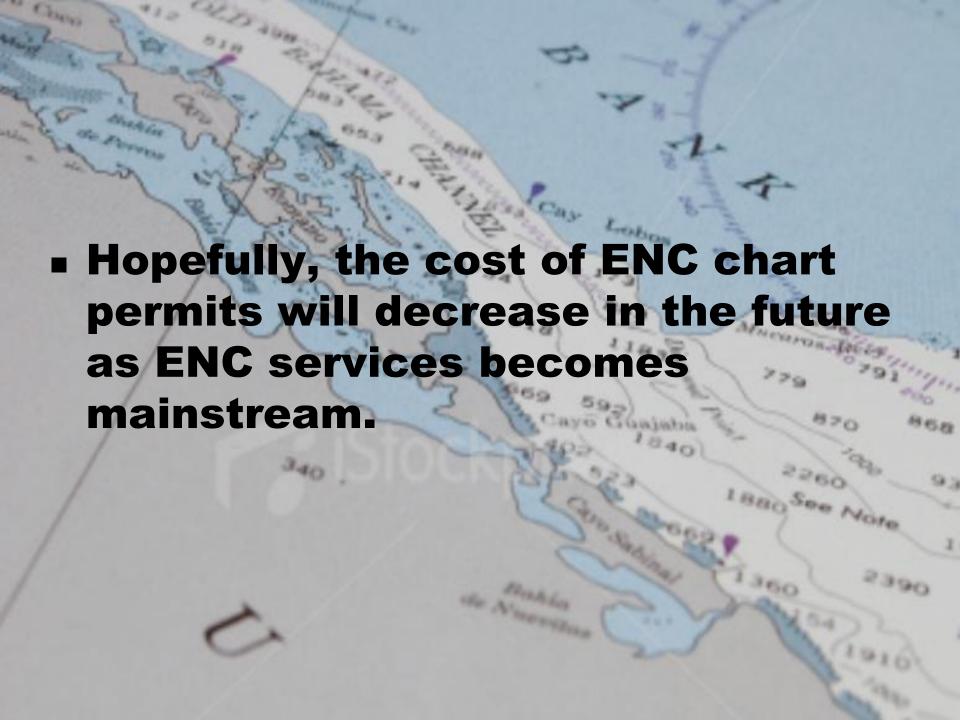
- ENCs are here to stay and will likely become the chart media of choice.
- Although ENC coverage is presently very good, we can expect better coverage, higher definition and more detail in the future.

 Paper charts might eventually grow out of favor.

 New requirements for ECDIS will likely be integrated with eNavigation software.

 However the cost may be prohibitive for smaller operators.  eNavigation will standardize information exchange and allow for a centralized location complementing the ECDIS terminal.

This should allow the Watchkeeping Officer to remain focused on the navigation at all times with fewer distractions and enhance navigation safety.



## Thank you for your Attention



Captain Michel Claveau