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| <p>PART 2</p> <p>REPORT MODEL</p> |
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| Identification | Project Number: (as assigned by CBSC) |
| Project Name: | |

| Financial report | Resources | | | Comments |
|---|-----------|-----------|-------|----------|
| | requested | allocated | spent | |
| Contribution by countries involved | | | | |
| Contribution by other parties | | | | |
| Contribution from CBSC Fund | | | | |
| Total Cost (Euros) | | | | |
| Breakdown of CBSC Fund expenditure (i.e. travel expenses, per diem, venue hire, etc.) | | | | |
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| Results | Just one text, possible topics listed |
| | Assessment and Comments |
| Date of start | March 3 rd 2014 |
| Date of finish | March 7 th 2014 |
| Changes in scope or focus | No changes were made. |
| Results achieved (output, product, etc.) | <p>1. The stated goal of the training was to provide Myanmar Naval Hydrographic Centre (MNHC) staff with interactive training on IHO S-57 Electronic Navigational Chart (ENC) production using existing software tools at their organization (i.e.: CARIS S-57 Composer). The training provided MNHC with skills to produce S-57 ENC base and revision datasets from various sources.</p> <p>2. Main course topics for the S-57 ENC production training included:</p> <ul style="list-style-type: none"> ✓ A brief introduction to IHO S-57 ✓ An introduction to CARIS S-57 Composer: products, layout, basic functions, etc. ✓ S-57 ENC production workflow options using CARIS S-57 Composer ✓ ENC data sources: digital nautical charts, raster images, etc. ✓ Using the S-57 ENC Exchange Set Creation wizard to create products ✓ Data coding and Catalogue browser for ENC production ✓ Preprocessing data: filtering lines, copying the geometry, intersecting nodes, change all, deleting and saving products, etc. ✓ Import selection/Superselection & object creation using lookup tables ✓ Interactive S-57 ENC object creation grabbing geometry and editing |

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| | <ul style="list-style-type: none"> ✓ Importing background vector data & database information using the Object Import Utility ✓ Assigning attribute values to S-57 objects ✓ Using the Quality Assurance tools S-58 effectively in S-57 Composer ✓ Correcting mistakes reported by Quality Assurance tools ✓ Exporting validated data to S-57 format files ✓ Discussion of products, backup, locations of files & procedures during the ENC production ✓ The ENC product revision cycle and ENC updating scenarios ✓ Updating ENC data using CARIS S-57 Composer ✓ Checking and exporting updated ENC information to S-57 format ✓ Viewing S-57 ENC data using CARIS Easy View ✓ Supporting documents: reference materials and help <p>3. Participation from Chris Brice (Geographic Manager at UKHO) also provided MNHC trainees with a further understanding of cartographic and hydrographic best practices.</p> <p>4. Instructors were:</p> <ul style="list-style-type: none"> - Julien Barbeau (CARIS) - Christopher Brice (UKHO) <p>5. The training was conducted as a series of hands-on exercises to create and maintain S-57 ENCs using CARIS S-57 Composer.</p> <p>6. A training room at MNHC in Yangon, Myanmar was used for the training. The training course was delivered Monday to Friday from 9am to 4pm.</p> |
| <p>Comparison with the Achievements and benefits awaited</p> | <p>The aim was for MNHC trainees to:</p> <ul style="list-style-type: none"> - Obtain an advanced understanding of ENC production - Provide hands-on experience with their production software (i.e. CARIS S-57 Composer). - Expand ENC production knowledge to a greater number of MHNC staff. <p>Regular interaction between instructors and training participants (e.g. visiting each workstation to monitor participant progress) and completed evaluation forms indicate that the aims were met and participants were satisfied with the training.</p> |
| <p>Problems experienced</p> | <p>No significant problems were experienced.</p> |
| <p>Suggestion for improvement for similar projects</p> | <p>A couple of trainees mentioned they would have benefited from having more time to practice with the software. Half a day was dedicated to an overview of the IHO S-57 standard for ENC production. The trainees would have benefited from 2 to 3 days on IHO S-57 standard prior to the 5 days training on ENC production.</p> |

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| Suggestion for follow-up projects | Have some training participants from previous projects also attend follow-up projects to provide continuity and additional assistance to new participants. |
| Valuation | 4: 80% to 90% |



CBSC Secretary

Project leader

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| PART 3 |
| ASSESSMENT MODEL |

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| Identification | Project Number: (as assigned by CBSC) |
| Project Name: | |

| | <i>Performance indicator</i> | <i>Mark</i> | <i>Comments</i> |
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| - | Arrangements | | |
| | Organisation of the project | 5 | The project was really well organized. |
| | Involvement(contribution) of | | |
| | National partners | 5 | MHNC made all daily arrangements for the training. Course logistics (e.g. training computers, etc.) were well organized and MHNC were very quick to assist with any requests during the training. |
| | Regional partners | 5 | UKHO and Chris Brice's participation to assist and provide additional comments on cartographic practices was an asset to the training. |
| | RHC | | |
| | IHB | 5 | Project submission, support and acceptance by CBSC. |
| - | Efficiency of the project | | |
| | Goals achieved | 5 | All goals were achieved and both instructors and course participants agreed it was a successful and informative training session. |

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| | Planned timing | 4 | The trainees would have benefited from additional training on IHO S-57 standard for ENC production prior to this training. This would have allowed more time for hands-on exercises. |
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| - | Future perspectives | | |
| | Need of similar project (locally, regionally) | 5 | During the training there were several discussions regarding paper chart production by MNHC and bathymetric data management. Similar courses, organized with support from CBSC, for paper chart production and bathymetric data management would allow MNHC to further improve upon current hydrographic and cartographic capabilities. |
| | Impact on future development | 5 | The information presented during the training will assist MNHC to implement more efficient tools and workflows for the production of S-57 ENC products. Similar courses, organized with support from CBSC, would also allow MNHC to further improve upon current hydrographic and cartographic capabilities. |
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| - | Procedure of CBSC | | |
| | Application form | | |
| | Support received | | |
| | Follow up and reporting | | |

Each of the performance indicators indicated in the table is rated according to the scale provided:

- 0 = 0-20%
- 1 = 20-40%
- 2 = 40-60%
- 3 = 60-80%
- 4 = 80-90%
- 5 = 90-100%

Julien Barbeau



CBSC Secretary

Project leader