COMMAND DISPLAY AND CONTROL – INTEGRATED NAVIGATION SYSTEM (COMDAC-INS) Loading & Deleting Charts JOB AID



Version 1.0 18 November 2008

Training Branch United States Coast Guard Command and Control Engineering Center (C2CEN) 4000 Coast Guard Blvd Portsmouth, VA

PREFACE

This document contains the COMDAC-INS Loading & Deleting Charts Job Aid as designed, developed, and approved by the Training Branch of the United States Coast Guard Command and Control Engineering Center, Portsmouth, VA.

NOTE

Before using the COMDAC-INS Loading & Deleting Charts Job Aid, the operator should have a basic understanding of electronic charting operations.

COMDAC-INS Loading & Deleting Charts JOB AID

JOB AID APPROVAL

Reviewed for Content by Course Owner (Signature) (Printed Name) (Date) Reviewed by Senior Course Designer: (Signature) (Printed Name) (Date) Reviewed for content by Program 26 JAN 09 Manager: (Printed Name) Reviewed by Training Program Jan 09 Manager: (Signature) (Printed Name) (Date) Approved by Training JAN Branch Chief: (Printed Name) (Signature) (Date)

Training Branch United Stated Coast Guard Command and Control Engineering Center (C2CEN) 4000 Coast Guard Blvd Portsmouth, VA 23703

TABLE OF CONTENTS

PREFACE	i
JOB AID APPROVAL	ii
TABLE OF CONTENTS	iii
INTRODUCTION	1
DOWNLOAD ENC CHARTS/UPDATES FROM NOAA WEBSITE TO A CD	2
DELETE CHARTS	8
LOAD CHARTS FROM CD	
TERMS / ABBREVIATIONS / ACRONYMS	

INTRODUCTION

This job aid provides detailed steps to load and delete charts using the Command Display & Control Integrated Navigation System (COMDAC-INS). It is normally performed by the CO, OIC, Navigator, OOD, JOOD, or other qualified bridge watchstander.

CAUTION

Ensure SMEF advisory SCCS 08-008 has been implemented prior to loading ENC cells. Failure to do so may cause the available Contour Line Values to be incorrect.

DOWNLOAD ENC CHARTS/UPDATES FROM NOAA WEBSITE TO A CD

NOTE

If loading charts from the Monthly Update CD or you already have needed files on CDs, steps 1 through 18 are not required.

- 1. From a Standard Workstation III (SWIII), open Internet Explorer.
- 2. Go to: http://www.charts.noaa.gov/ENCs/ENCs.shtml.



3. Ensure that a blank CD is in the CD drive, if saving to a CD.

- 4. Click on a link from the following categories (see note below):
 - a. All ENCs (NOT recommended, see Caution below)
 - b. ENCs by Coast Guard Districts
 - c. ENCs by State/Region
 - d. Individual ENCs

~	· Marine Manual		and ENC dENC	a alabad							🚽 🎮 Ga 🛛 Linka 💥 🖨
65	s en unter i la marca	narts.noaa	a.gov/ENCs/ENC	s.sntmi			0	o		WATER	
3	U.S. COAST GOAT		type in	а неумога	<u> </u>		y Zip	Code:	· · · · ·	VATEU	01 100IS •
1	ENCs:										
1	392 MB, 09/0	9/2008 :	(4:25:01) O	ne Wee	k (54 MB, 1	09/09/2008 14:02:52) Two	Days (7 M	B, 09/09/2	2008 13	:59:59) One Day (5 MB, 09/09/200
							1.1				A get the get get and
1	Cs by Coast C	hiard I	Districts:								
. (CGD (55 MB, 1	09/05/20	008 12:41:22) <u>05 C</u>	<mark>3D</mark> (50 MB,	09/09/2008 13:48:3	7) <u>07</u>	CGD (66 N	(B, 09/09)	2008 1	3:52:43)
(CGD (52 MB, 1	09/09/20	008 13:56:19) <u>09 C</u>	3D (39 MB,	09/09/2008 13:58:5	5) <u>11</u>	CGD (22 N	/B, 09/04/	2008 1	4:51:15)
(<u>CGD</u> (32 MB, 1	09/03/20	008 16:58:31) <u>14 CO</u>	3D (5 MB,	09/08/2008 13:00:14) <u>17</u>	CGD (86 N	Æ, 09/05/	2008 1	2:55:35)
1	Cs by State / 1	Region									· · · · · · · · · · · · · · · · · · ·
2	(83 MB, 09/0:	0/2008 1	(2:31:09) A	L (2 M	B, 09/02/20	08 13:30:35) <u>BS</u>	(1 MB	, 02/29/20	08 13:12:3.	5) <u>C.</u>	A (19 MB, 09/04/2008 14:27:36)
4	(4 MB, 06/16/	2008 11	(11:38:10) <u>1</u>	DE (5 M	B, 09/04/20	08 14:23:18) <u>EC</u>	(4 MB	, 09/04/20	08 14:22:2	/) <u>FI</u>	(33 MB, 09/03/2008 16:09:23)
7	(12 MB, 09/09	#2008 1	15:45:54) <u>C</u>	C (/ M	B, 09/05/20	08 12:32:15) <u>HA</u>	(3 MB	, 09/08/20	08 12:55:54	⁺) <u>μ</u>	(1 MB, 08/12/2008 14:10:39)
	(I MB, 08/26/	2008 13	5:52:26) <u>I</u>	A (21 A	4B, 09/05/2	008 12:33:43) MA	(10 M	B, 08/25/2	008 14:21:	ID) <u>M</u>	(10 MB, 09/09/2008 13:44:40)
<u>E</u>	(18 MB, 09/0:	2008 11	(2:30:01) <u>I</u>		AB, 09/09/2	008 13:41:14) MIX		08/16/20	08 13:49:40	リ <u>M</u> 4) M	(4 MB, 09/05/2008 12:36:12)
-	(6 MB, 08/29/	2008 11	(49.59) <u>(</u>	D (10)	D, 00/20/20	009 16:09:16	(4 MLD	00/02/20	00 12:21:01	+) <u>IN</u>	1 (10 MB, 09/09/2008 13:42:36)
1	(10 MR 00/03	2006 12	(.11.27) T		дв, 09/09/2 р. 07/11/00	000 16.00.04)	(3 1910	09/02/20	00 12.55.2	2) <u>ru</u> 2) 01	(1 MB, 08/01/2008 14.17.44)
-	(14 MR 09/0	2008 1	2.45.40)	(1) (21 N	IR 00/04/2	009 14-32-14) WA	(0 ML)	R 00/02/20	00 15.55.5.	57) W	(1 MB, 00/12/2000 13:45:25)
F	(5 MB 09/09/	2008 13	3:43:07)	A (21 I)	ш), 0 <i>010</i> 4/2	000 14.52.14)	(21.141	D, 07/05/2	008 10.04.	<i>n</i>) <u>=</u>	<u>e</u> (3 MID, 09/02/2008 15/21/50)
-	(3 1111), 05/05/	2000 1.	(10.07)								
li	vidual ENCs:										
			Update					LNM	NGA		
	ENC Name	Edition	Application	Update	Issue Date	Zip File Date Time	CGD	Clear	Clear	Chart	Title
			Date					Date	Date		
	US1AK90M	4	3/13/2008	0	3/13/2008	03/13/2008 14:24:1	3 17	8/26/2008	9/6/2008	16003	Artic Coast

NOTE

If you download an update that is out of sequence the base chart will NOT display.

CAUTION

C2CEN SMEF advisory # COMDAC-08-009 (DISTRIBUTION OF ELECTRONIC NAVIGATION CHART (ENC) DATA) states the allenc.zip file provided by NOAA for download causes the voyage planning tool in COMDAC-INS V4.7.3.7 to close and corrupts the enc.res file resulting in an inability to load additional ENC chart data. COMDAC-INS V4.7.3.7 equipped cutters are advised not to install the allenc.zip file until further notice.

Usable ENC chart data zip files may be downloaded from the NOAA website by coast guard region, district, state or individual files.

Maximize the USER AGREEMENT window.

dres	is 🔊 http://www.cl	harts.noa/	a.gov/ENCs/ENCs	s.ehtml					
IE	U.S. COAST GUAR	RD -	Type In	User's Agreement - Microsoft Internet Explorer provided by United States Coast Guard					
ndi	vidual ENCs:			USER AGIGERALIAVI					
ŧ	ENC Name	Edition	Update Application Date	By using the website and the NOAA Electronic Navigational Charts (NOAA ENCs®) distributed there, you acknowledge that you have read, understood, and accepted the terms and conditions stated in this User Agreement NOAA reserves the right to change this Agreement at any time and without notice. Your use of the					
Ĺ	USIAK90M	4	3/13/2008	website and/or the Electronic Navigational Charts available there shall constitute your agreement to be bound					
2	US1BS01M	3	1/16/2007	by any this Agreement and any changes.					
3	US1BS02M	3	1/19/2007	1. Description of NOAA Electronic Navigational Charts (NOAA ENCs®)					
	US1BS03M	4	1/19/2007						
	US1BS04M	2	5/25/2005	The NOAA ENCs distributed here are a geo-referenced database(s) of NOAA nautical chart features and					
	US1HA01M	5	8/13/2008	Standard, "IHO Transfer Standard for Digital Hydrographic Data." NOAA updates the ENCs for Notice to					
	US1PO02M	13	6/2/2008	Mariners on a weekly basis (timing of their availability is not guaranteed). NOAA ENCs are an official product					
	US1PO02M	-	-	of NOAA.					
	US1PO02M	-	-	2. Permitted Use					
	US1PO02M	-	-						
	US1WC01M	16	8/29/2008	The NOAA ENCs are intended for navigational use. They are intended to be used in their electronic form					
	US1WC01M	-	-	except as noted herein.					
	US1WC01M	-	-						
	US1WC02M	13	1/23/2008	They may be used to meet federal chart carriage regulations published in the Code of Federal Regulations. On					
0	US1WC04M	5	3/26/2007	advised to check the Code of Federal Regulations for their current status.					
1	US2AK30M	7	5/10/2007						
2	US2AK5FM	2	3/18/2008	1) On May 2, 2001, the United States Coast Guard amended the United States chart carriage regulations to					
3	US2AK70M	5	9/10/2007	permit government vessels to use electronic charting and havigation systems in lieu of paper charts.					
л	TISPAK 7VM	2	1/25/2007	2) On July 1, 2002, the International Maritime Organization's (IMO) amendments to chapter V of the					

5. Read the USER AGREEMENT and click **OK** at the bottom of the window.

6. Click the **Save** button.

NOAA ENCs® may be redistributed, but redistrib regulations for regulated vessels unless redistributed http://chartmaker.ncd.noaa.gov/mcd/enc/fedreg_e	uted NOAA ENCs are NOT considered official NOAA ENCs, by a "Certified NOAA ENC Distributor" or by a "Certified NO Ile Download	and do not meet federa AA ENC Value Addec
Copying of the NOAA ENCs to any other server Agreement is displayed and accepted by anyone a ENCs is advised of their origin.	Do you want to open or save this file? Name: U51AK90M.zip Type: WinZip File, 102 KB	g guidelines are follow ncluded so that anyon
If these NOAA ENC's are incorporated into any must adhere to conditions described in the paragri	From: www.charts.noaa.gov	lucer of that product a
4. Warnings	Always ask before opening this type of file	
Weekly updates to the ENCs are done on a "best are the most current edition and that the most rece	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. What's the risk?	are responsible for en
While NOAA has accuracy standards for each st based on surveys conducted before 1940, the shor the accuracy of electronic charts, click http://chartm	eline is more than 20 years old, and paper charts used to be com aker.ncd.noaa.gov/mcd/enc/encartcl.htm.	depth information foun piled manually. For mor
5. Trademarks and Copyright		
"NOAA®" and the NOAA® emblem are registere	d trademarks of the National Oceanic and Atmospheric Adminis	tration.
NOAA ENC® is a registered trademark of the Na	tional Oceanic and Atmospheric Administration.	
Click OK to download US1AK90M zip		
Done		
🟄 Start 🞯 🧿 🥭 🔟 Inbox - Microso 🙋 Product	Server 🖉 User's Agreeme 🥘 File Download	

7. From the *Save in* dropdown menu, select the desired location to save the file (i.e. CD Drive (D:)).

Save As					<u>? ×</u>
Save in:	My Recent	Documents	•	G 🕸 📂 🖽 -	
My Recent Documents Desktop My Documents MCFrechette on D05MW-IC2C	My Recent I Desktop My Docur MCFreche Disktop CD Driv Apps or Library (NetApp Starstor Home or Starstor Wy Networ Wy Networ Training	Documents hents hete on D05MW-IC2C9398 e (D) h 'D05ms-iscapps' (L:) s on 'D05ms-iscapps' (D:) s on 'D05ms-iscapps' (D:) s on 'd05ms-iscapps' (D:) n 'D05ms-iscapps' (X:) h 'D05ms-isc2cen' (Y:) h 'D05ms-isc2cen' (Y:) h 'D05ms-isc2cen' (Z:) rk Places	CFrechel		
		UMD 7/22/2008 11:32 A	M 		<u> </u>
My Network Places	File name:	US IAK90M.zip		•	Save
	Save as type:	WinZip File		•	Cancel

8. Click Save.



9. Click **Close** when the download is complete (if necessary).



- 10. Close the USER AGREEMENT window.
- 11. Repeat steps 4 thru 11 as necessary.
- 12. Exit Internet Explorer.

NOTE

Steps 14 thru 18 are necessary ONLY if you saved zip files directly to a CD.

- 13. Access the CD drive on the SWIII.
- 14. Select Write these files to CD.



15. Change the CD name if desired, Click Next.



16. Click **Finish** after the files are written to the CD.



17. Remove CD from SWIII.

DELETE CHARTS

1. Left Click and hold the **Navigation** tab.

Chart RADAR Navigation DDC Navigation 'erformance Chart-1 NMEASIM Communications Help

2. Select **VPT** (Voyage Planning Tool).

COMDAC
ECDIS
VPT
Log Manager
COMDAC Configuration File
GUI Configuration File
COMDAC Close Programs
COMDAC Restart DMC Processes
COMDAC GeoSym Utility

3. In the Chart Data window, Left click the **Load** tab.

	CHART	DATA	
DNC Volume ENC	DNC /	RNC	Load
ENC Cells	DNC Libraries	RNC Charts	TOD Charts
Сору	Сору	Сору	Сору
Prepare	Prepare	Prepare	Prepare
Unprepare	Unprepare	Vnprepare	Unprepare
Delete	Delete	Delete	Delete
Deîcte Progress	Delete	Delete	Delete

NOTE

Unpreparing ENC Cells are not necessary if Updating Cells. Updating an ENC Cell will automatically write over old file. To delete specified ENC Cells follow steps 4 thru 7.

DNC and RNC Charts have to be deleted prior to updating. Follow steps 8 & 9 to delete.

Unprepare ENC Cells

NOTE

Steps 4 thru 7 are required for ENC Cells ONLY. When an ENC Cell is unprepared, it is simultaneously "deleted." Deleting DNC and RNC Regions is covered in steps 8 and 9.

- 4. Left click **Unprepare** under the appropriate label.
- 5. Select a cell from the list to be unprepared.
- 6. Click **OK**. The statement, "Unpreparing (chart#) Cell" will appear at the bottom of the Chart Data window.

	CHART	DATA	
Volumes ENC	DNC / RNC /	Load	
ENC Cells	DNC Libraries	RNC Charts	TOD Charts
Сору	Сору	Сору	Сору
Prepare	Prepare	Prepare	Prepare
Unprepare	Unprepare	Vnprepare	Unprepare
Delete	Delete	Delete	Delete
Unpreparing US5VA14	4 Cell		
		100% [jec	t CD

7. The statement, "Unprepare Operation Completed" will appear at the bottom of the Chart Data window when the chart is unprepared.

	CHART	DATA	
Volumes ENC / I	DNC / RNC /	Load	
ENC Cells	DNC Libraries	RNC Charts	TOD Charts
Сору	Сору	Сору	Сору
Prepare	Prepare	Prepare	Prepare
Unprepare	Unprepare	Unprepare	Unprepare
Delete	Delete	Delete	Delete
Unprepare Operation	Completed	Eje	ct CD

Delete DNC and RNC Regions

NOTE

Prior to deleting charts you should verify no charts of that library are being displayed at any local or remote station. Sometimes the system hangs up on the delete process around 96-99%. If this should occur reboot the machine then re-launch VPT and select Delete again, which should complete the process and allow you to load the next chart.

8. Click **Delete** under the DNC Libraries or RNC Charts header in the Chart Data window. The statement, "Deleting From (Volume/Region#)" will appear at the bottom of the Chart Data window.

		CHART	DATA	
DNC Volume	ENC	, DNC ,	RNC	Load
ENC C	ells	DNC Libraries	RNC Charts	TOD Charts
Copy		Copy	Copy	Copy
Prepa	re	Prepare	Prepare	Prepare
Vrore	parc	Unprepare	Vnprepare	Unprepare
Delet	e.	Belete.	Delete	Delete
Deleting From	WCD DN	C013ED016		
			18%	- 03 fa

NOTE

The Delete option is not available for ENC Cells. ENCs are only Unprepared (see steps 4 thru 7).

9. The Chart Data window will notify you when the delete operation is complete.

DNC VO	lune ENC	, DNC	RNC	Load
	ENC Cells	DNC Libraries	RNC Charts	TOD Charts
	Сору	Сору	Сору	Сору
	Prepare	Prepare	Prepare	Prepare
	Vnprepare	Unprepare	Unprepare	Unprepare
	Delete	Delete	Delete	Delete

NOTE

You can verify cells, libraries, and charts were deleted by selecting one of the following TABs within the CHART DATA window(DNC Volume; ENC; DNC; or RNC) and ensuring files are NOT present.

10. Exit VPT.

LOAD CHARTS FROM CD

NOTE

DNC and RNC Charts have to be deleted prior to updating. Follow steps 8 & 9 in Deleting Charts prior to loading DNC or RNC Charts.

CAUTION

Ensure SMEF advisory SCCS 08-008 has been implemented prior to loading ENC cells. Failure to do so may cause the available Contour Line Values to be incorrect.

1. Left Click and hold the **Navigation** pull-down menu on the System Menu Bar.

Chart RADAR Navigation DDC Navigation 'erformance Chart-1 NMEASIM Communications Help

2. Select **VPT** (Voyage Planning Tool) option.

COMDAC
ECDIS
VPT
Log Manager
COMDAC Configuration File
GUI Configuration File
COMDAC Close Programs
COMDAC Restart DMC Processes
COMDAC GeoSym Utility

3. Insert the Monthly Update CD or the downloaded, ENC zip file CD into the CD-ROM or DVD drive (wait for the File Manager window to appear).

File Manager – enc_norfolk	•
File Selected View	Help
8	
enc_norfolk	
//enc_norfolk/	
noaa_enc.zip	
3 Itens 2 Hidden	

4. Left click the **Load** tab on the Chart Data window.

CHART DATA				
DNC Volune	ENC	DNC /	RNC	Load
ENC	: Cells	DNC Libraries	RNC Charts	TOD Charts
Cop	γ	Сору	Сору	Сору
Pro	epare	Prepare	Prepare	Prepare
Uni	orepare	Unprepare	Vnprepare	Unprepare
Der	lete	Delete	Delete	Delete

5. Left click the **Copy** button under the appropriate label.

DNC or RNC			ENC
Region/Edition Auto-filled?	YES NO		
	Go to step 6	a. Enter the appropriate Region/Editionb. Go to step 6	Go to step 6
		·	



NOTE

Ensure the Automatically Prepare Chart radio button is set or refer to the prepare procedures in the COMDAC-INS SUM to prepare charts after they are copied.

6. Select **OK**. The statement, "Prepare Operation Completed" will appear at the bottom of the Chart Data window when the chart is prepared.

CHART DATA				
DNC Volume	ENC /	DNC	RNC Loa	ad
ENC Cel	ls DNC	Libraries P	NC Charts	TOD Charts
Сору	Col	уу. (Сору	Сору
Prepare	e Pro	epare f	Prepare	Prepare
Unprepa	are Unp	repare	Unprepare	Unprepare
Delete	De	lete [Delete	Delete
Prepare Operati	on Complete	ed		
			Eject	CD

- 7. Right click and hold any blank space in the Chart Data window.
- 8. Select **Sync CDS Database** to synchronize the DNC libraries, ENC cells and RNC chart data on the hard drive.



9. Eject CD and exit VPT.

NOTE

You can verify loaded cells, libraries, and charts, by selecting one of the following TABs within the CHART DATA window (DNC Volume; ENC; DNC; or RNC) and ensure files are present.

TERMS / ABBREVIATIONS / ACRONYMS

COMDAC-INS	Command Display and Control – Integrated Navigation System
СО	Commanding Officer
DNC	Digital Nautical Chart
ENC	Electronic Navigation Chart
Ft	Feet (unit of measurement)
JOOD	Junior Officer of the Deck
NOAA	National Oceanic and Atmospheric
OIC	Officer In Charge
OOD	Officer of the Deck
RNC	Raster Nautical Chart
SMEF	System Management & Engineering Facility
SWIII	Standard Workstation III
VPT	Voyage Planning Tool