AMVER-SEAS

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Installation Guide

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ftp://ftp.aoml.noaa.gov/pub/phod/seas/Installs.

Please Help Us Improve This Manual

We would be very interested to hear any comments you might have on this new installation manual. We are particularly interested in learning of mistakes or omissions and subjects that are unclear. Please call or e-mail and direct your comments to Caridad Ibis Gonzalez. Thank you very much for your assistance.

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Introduction to AMVER-SEAS

Under a cooperative agreement between the National Oceanic and Atmospheric Administration (NOAA) and the U. S. Coast Guard (USCG), AMVER-SEAS has been created to assist Volunteer Observing Ships (VOS) in submitting Shipboard Environmental data Acquisition System (SEAS) reports and participating in the Automated Mutual-assistance Vessel Rescue system (AMVER).

The <u>SEAS</u> reports consist of marine weather and ocean data. The VOS program allows ships to report marine weather to the National Weather Service (NWS) so that high seas forecasts will be as timely and accurate as possible.

The <u>AMVER</u> system allows ships to report their intended voyage track so that in the event of an emergency all available resources may be focused on aiding ships in distress.

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Computer Hardware and Operating System Requirements

- Operating System: Windows XP.
- Works best with 200 MHz Pentium or better.
- Video card that supports 800 x 600 pixels with 65K colors or better.
- 10 MB of free hard disk space

Download

The latest AMVER-SEAS version will need to be downloaded from the FTP site <u>ftp://ftp.aoml.noaa.gov/pub/phod/seas/Installs/</u>. There are several versions that basically are the exact same executables except that the setup is different so that Hand Launching, Auto Launching AOML and Auto Launching SIO have different setups. It make easy to down load the ones that apply to the cruise.

You have to download and unpack the "**disk**" directory into the required zip file, and create a folder into a convenient location.

Step1: Removing anti virus software

Before you start the installation from AMVER-SEAS you have to remove all anti virus software or fix port 25 exception. Some anti virus like McAfee will prohibit the transmissions.

Step2: Installing WinMK21

WinMK21 is the Sippican's software for hand launching XBTs and other types of expendable probes. It includes the driver necessary to communicate with the MK21 board. Although WinMK21 must be installed on the computer, it should not be used to collect XBT data except in extreme circumstances for troubleshooting when AMVER-SEAS is not functioning properly.

This step may not be necessary as WinMK21 software may already be installed on your computer. It is installed if there is **C:\Program Files\Sippican** directory, additionally there should be a **WinMK21** logo on the desktop.

Double click this logo to run the software.



Never run WinMK21 at the same time as the XBT program. Use WinMK21 to do a drop is relatively self-explanatory. Refer to the program's help menu for more details and instructions for this software.

To install WinMK21, exit all programs and turn off any virus protection or screen saver software. Then double click on **Sippican install New**

Drivers/WinMK21Surface_v2.9.1_revK/setup.exe version 4.1.222.0 (put the mouse over the file and version number should appear), that you can find into the zip folder http://ftp.aoml.noaa.gov/Installs/Installs_XBT_AutoLaunchers/Sippican Install_All New Drivers.ZIP

😂 C:\AMVER_SEAS\CD Installs\Sippican install New Drivers\WinMK21Surface_v2.9.1_revK			
File Edit View Favorites Tools Help			
🚱 Back 🔹 🛞 🖌 🏂 Search 🔊 Folders 💷 🗧			
Address 🛅 C:\AMVER_SEAS\CD Installs\Sippican install	New Drivers\WinMK21Surface_v2.9	.1_revK	
Folders ×	Name 🔺	Size Type	
🕝 Desktop 🔨	🗀 program files	File Folder	
🗄 📋 My Documents	🔁 System32	File Folder	
🖃 😨 My Computer	🔮 0x0409.ini	5 KB Configuration Setting	
🖃 🥯 OS (C:)	Autorun.inf	1 KB Setup Information	
🗉 🧰 4afbdcfa914719b77c2538 👘	🚰 instmsia.exe	1,669 KB Application	
🗉 🧰 AMVER_SEAS	🚰 instmsiw.exe	1,780 KB Application	
🖃 🚞 CD Installs	setup.exe	220 KB Application	
Archive Old Versions	Setup.ini	2 KB Configuration Setting	
🖃 🚞 Sippican install New Drivers 🚽	WinMK21 Description: Setup L	auncher Windows Installer P	
🖃 🧰 WinMK21Surface_v2.9.1_	Company: Lockheed	Martin Sippican, Inc.	
🕀 🧰 program files	Date Created: 9(30	2.0 /2009 2:25 PM	

The **WinMK21 – InstallShield Wizard** should start automatically and the *Welcome* dialog box should open. Click **Next**.



Select the radio button labeled I accept the terms in the license agreement. Click Next.

🥵 WinMK21 - InstallShield Wizard	X	
License Agreement Please read the following license agreement carefully.		
LOCKHEED MARTIN SIPPICAN, INC. LICENSE AGREEMENT WinMK21		
IMPORTANT: READ CAREFULLY . This Lockheed Martin Sippican, Inc. License Agreement ("EULA") is a legal AGREEMENT between you and Lockheed Martin Sippican, Inc. for the Lockheed Martin Sippican, Inc. software product identified above, which includes computer software and may include associated media, printed materials, and "online" or electronic documentation ("SOFTWARE PRODUCT"). By installing, copying, or otherwise using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS EULA, CLICK THE NO BUTTON AND THE INSTALLATION		
 I accept the terms in the license agreement ○ I do not accept the terms in the license agreement 		
Install5hield		

Select the destination folder. Click Next to save this file in the default location.

🔂 WinMK	21 - InstallShield Wizard 🛛 🔀
Destinati Click Nex	ion Folder xt to install to this folder, or click Change to install to a different folder.
	Install WinMK21 to: C:\Program Files\Sippican\WinMK21\ Change
InstallShield -	< <u>B</u> ack <u>N</u> ext > Cancel

Select the radio button **Typical** and click **Next**.

🔂 WinMK21 - Iı	nstallShield Wizard	
Setup Type Choose the set	up type that best suits your needs.	P.
Please select a	setup type.	
1	All required program features will be installed. - Windows NT installs ISA driver - Windows2000/XP installs MK21/USB DAQ driver	
O <u>M</u> inimal	Minimum required features will be installed.	
O Cu <u>s</u> tom	Custom installation options. Required for: - Windows2000/XP ISA and MK21/USB (pre-DAQ) drivers - French language support.	
InstallShield	< <u>B</u> ack <u>N</u> ext >	Cancel

Review the installation settings and press Install.

🖟 WinMK21 - InstallShield Wizard 🛛 🛛 🔯		
Ready to Install the Program The wizard is ready to begin installation.		
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:		
Setup Type: Typical		
Destination Folder: C:\Program Files\Sippican\WinMK21\		
User Information: Name: Ibis Gonzalez Company:\PHOD		
InstallShield		

🛃 WinMK21 - InstallShield Wizard 🛛 🛛 🔀		
	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed WinMK21. Click Finish to exit the wizard.	
	< Back Einish Cancel	

Click **Finish** to complete the installation process from WinMK21.

After finishing, restart the computer.

Step3: Installing MK21 USB device driver

1. Start the computer with the MK21/USB Recording System (MK21/USB) **not connected**.

7/12/2010

2. Turn on the MK21/USB and then plug in MK21/USB USB connector to the computer.

When MK21/USB Recording System is first time connected to the USB host Windows XP will detect the new hardware, then the device driver will be installed as follows:

3. The Found New Hardware Wizard is started. Select the Install from a list or specific location (Advanced) option. Click the Next button to continue.

4. Select the **Search for the best driver in these locations** option. Select the **Include this location in the search** check box and uncheck the other alternatives. Click **Browse** and then select the

C:\Program Files\Sippican\MK21SDK\MK21USB\win-xp directory. Click the Next button to continue.

5. Windows XP displays the warning message. Please ignore the warning and click the **Continue Anyway** button.

6. The Found New Hardware Wizard will now install the MK21 USB device driver and configure the Window XP system. Then it indicates that the installation is complete. Click the **Finish** button to close the wizard.













The MK21 USB device driver has been successfully installed and is ready for use by the WinMK21 program. The computer does not need to be restarted.

Sippican has two versions of hardware. The original MK21 ISA interfaces with an ISA to USB card, and then the newer (came out early 2007) MK21 DAQ card that is connected directly to the USB port. AMVER-SEAS will work with both hardware versions. The MK21 ISA to USB (older version) shows up as ARS Tech USB ISA **Device** in the device manager, the MK21 DAQ shows up in the device manager as **USBXpress**.

If the PC was running on an older version of Sippican MK21 device drivers, please install new drivers.

Different files need to be located in the C:\Program Files\AMVERSEAS\Execs and the C:\Program Files\AMVERSEAS\Administration\Lib directories. AMVER-SEAS main menu does all of this automatically; when you select the hardware version on Main Menu| Seas | XBT Hardware Versions. The files will be adjusted as needed.

Files needed for MK21 ISA: C:\Program Files\AMVERSEAS\Administration\Lib\mk21al.dll (version 2.13.1.0 291,840Kbytes) C:\Program Files\AMVERSEAS\Execs\arsusb1.dll (118,784 bytes) C:\Program Files\AMVERSEAS\Execs\SiUSBXp.dll (version 2.3.0.0) C:\Program Files\AMVERSEAS\Execs\mk21usb_New.dll

Files needed for MK21 DAQ: C:\Program Files\AMVERSEAS\Administration\Lib\mk21al.dll (version 2.13.1.0 291,840Kbytes)

C:\Program Files\AMVERSEAS\Execs\mk21usb.dll (version 1.1.0.0) C:\Program Files\AMVERSEAS\Execs\SiUSBXp.dll (version 2.3.0.0)

Step 4: Installing AMVER-SEAS

Look in C:\Program Files\ for a directory called AMVERSEAS. If it exists, rename it by appending AMVER-SEAS with the previous cruise designation, or a description appropriate to the data it contains. Never install AMVER-SEAS when a folder named AMVERSEAS already exists.

In order to install AMVER-SEAS on the computer double click on SETUP.exe application on the AMVER-SEAS installation CD, this will start the loading of the AMVER-SEAS.



Please follow installation directions.



Click on Next

Choose Destinatio	n Location	×
	Setup will install AMVER SEAS 2K in the following folder.	
	To install to this folder, click Next.	
	To install to a different folder, click Browse and select another folder.	
	You can choose not to install AMVER SEAS 2K by clicking Cancel to exit Setup.	
	- Destination Folder	

Click on Next

AMVER SEAS 2K ver6_2		
AMVER SEAS 2K ver6 2		
	n de l'étaine de la company	
	Setup	
	Copying program files c:\\amverseas\administration\autoimet\gauge\shipdir.gag	
	100 %	
	Cancel	

This will create an AMVER-SEAS directory at the user specified location and install AMVER-SEAS on the Start Menu.

Click OK

AMVER SEAS 2K ver6_2
AMVER SEAS 2K verb 2
Information
1 order to operate AMVERSEAS properly, please read the AMVERSEAS_help file. This file can be viewed by double clicking on the AMVERSEA_help icon in the START menu under Programs AMVERSEAS.
OK

Click OK

Now you have the AMVER-SEAS icon on your desktop.



Also you can start the AMVER-SEAS program by selecting the AMVERSEAS icon in the **Start Menu**.

Caridad I. Gonzalez		
Internet Mozilla Firefox Image: E-mail Mozilla Thunderbird Image: E-mail Mozilla Thunderbird Image: E-mail Mozilla Thunderbird Image: E-mail Mozilla Thunderbird Image: E-mail Image: E-mail <th>My Documents My Recent Documents My Recent Documents My Pictures My Music My Computer My Network Places</th>	My Documents My Recent Documents My Recent Documents My Pictures My Music My Computer My Network Places	
Microsoft Visual Studio 2008 Paint AMVERSEAS All Programs	Set Program Access and Defaults Connect To Printers and Faxes Help and Support Search End	
	Log Off 🔟 Shut Down	

The AMVER-SEAS application must be able to read the Administration File (Admin.txt) file in the Administration directory in order to allow entry of AMVER and SEAS reports. If the Admin.txt file is not present then AMVER-SEAS will ask you to create and transmit the Administration File, please follow directions.

X
nd

Press OK

Administration	
AmverSeas can not be proceed with information. Please fill out Administra	iout completing the Administration stion information or exit AmverSeas

Press OK

ministration					
e Transmit Help					
Ship Information				and a second	
Company Name NDAA		Call Sig	IN" WTEO	Maxmum Speed Knots*	11
Ship Name* GDRD0	ON GUNTER	IMO Numbe	r 8835255	Sal Plan Default Nevigation Method	00
Sensor Information – Theimometer Height Anemometer Height Barcmeter Height Sea Surface Temp Depth	meter: 10.6 14.0 10.6 4.0	Sea Surface Temp Ty Wet Bulb Temp Metho Anemometer Method	pe intake measure pd measured measured	ement	Iloppy drive
INMARSAT Data INMARSAT-C Mobil Emergency Watch (I INMARSAT-C Mobil	e ID* 430 GMDSS) e ID	0396610	edical Staff * Nurse IT ME PA IZ No srward	ne T VOSCLI	M Paiticipant

Proceed to fill out as much information as possible, and click on Transmit Binary.



Click on Browse

Save As			?
Save in: ଢ	Reports_Amver	• = E	r 🗐 🕆
	Terrenteensterr	4	
File name:	Admin.tin		Save
			0

Click Save, and save this file in the default location.



Click OK

Then you have successfully installed AMVER-SEAS. It is recommendable to check the setup.

Step 5: Checking AMVER-SEAS, and Iridium versions

To ensure that you use the correct AMVER-SEAS, and iridium software version for your cruise please look at <u>ftp://ftp.aoml.noaa.gov/pub/phod/seas/Installs/Version info.xls</u>.

Step 6: Setting up transmission

Select option Main Menu|Setup|Setup AmverSeas Configuration|Setup All – Enable/Disable.

🚟 AMVER SEA	AS UTC Time: JUL 09 2010 19:04:	51		
AMVER SEAS	Setup Utility Help			
sail dev p	Amver Administration Report			
AND DED AT MODERATION	Setup AmverSeas Configurations 🔷 🕨	Setup All - Enable/Disable		
	Transmission Type	MET Only	•	
OTHER DESIGNATION OF CAME	Time Server -> Start Thrane TxRcv (XverXface) -> Start	XBT Hand Launch XBT Auto Launch TSG)))	
		AutoIMET	•	
	Other SEAS Reports Enable/Disable			
Sys: 6.20	Xmit Type: Amver: Thrane MET: Th	rane XBT: None		

Be sure to check on all boxes that the cruise needs.

Enable/Disable AmverSeas Menu Items	×
Aniver SEAS Enable to Show menuitems. Disable to Hide menuitems Display Setup Menus. Obviously only hide menus after setup. Display Aniver Reports: Sail, Dev, Pos and Arrival Reports Display Aniver Reports: Sail, Dev, Pos and Arrival Reports	Programs that are enabled, are accessable on menu Disabled Programs are graved out and hidden if 'Hide' is TimeServer (Tray Program) Time Server: - ENABLED
Usplay Buttons for Anver Reports Display Utility Menu Hide the disabled "Display" menu items [else items are anverd]	✓ Allow remote sources of GPS data ✓ ×BT ×BT: - ENABLED ✓ Startup
PassWord protect this Enable/Disable dialog.	 XBT HandLaunching Only Configuration XBT Bare Basics, Hand Launch Only: Disables non-used menus and hides them.
Enable Transmission and GPS Types Thrane: - ENABLED Txmit, GP: Startup XyerXface Display Thrane Xmt Button on AmverSeas menu	TSG Data Reader: - ENABLED Startup
□ Iridum · ENABLED Txmit, GP! Set Iridum Com Port ☑ Email: · ENABLED Txmit Change Email Directory	Auto IMET Automated Weather: ENABLED Startup SCS socket connection to MET data (NEAA Ships) Startup
Default Setup Startups only work if corresponding function is enabled.	OK Cancel

Step 7: Setting up transmission type

Select option Main Menu|Setup|Transmission Type.

MET includes C Email Xmit (NOAA Fleet) TSG	ridium Xmit Imed for all erSeas based data
--	---

Be sure to check on all boxes that the cruise needs.

Step 8: Testing COM ports

You have to test that the ports that you will use work well. You can do it using any program like HyperTerminal or an AMVER-SEAS application.

Step 9: Uninstalling previous Iridium Mailer Service

If a previous version of AMVER-SEAS using Iridium Mailer Service is on the computer, the older version of Iridium.exe must be uninstalled.

Open a DOS window pressing the Windows **Start** button to bring up the start menu and select **Run**.



The **Run** window appears.



Type cmd and click OK. This will get you to a command prompt.

The command to be typed into the DOS window is:

Iridium.exe –u

In the C:\Program Files\AMVERSEAS.



Insure that there is no NOAA SEAS Iridium Mailer service on the computer.

Press the Windows **Start** button to bring up the start menu and select **Control Panel**



At the Control Panel window select Administrative Tools.



At the screen Administrative Tools select Services.

😼 Administrative Tools					
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help				1
🚱 Back 🝷 🕥 - 🏂 🔎 Se	arch 🝺 Folders 🛄 🕶				
Address 🦏 Administrative Tools					💌 🔁 Go
<u>^</u>	Name 🔺	Size	Туре	Date Modified	
File and Folder Tasks 🙁 👘	Component Services	2 KB	Shortcut	4/25/2008 9:27 PM	
Departs this file	📕 Computer Management	2 KB	Shortcut	4/25/2008 9:29 PM	
	🔂 Data Sources (ODBC)	2 KB	Shortcut	4/25/2008 9:29 PM	
Move this file	🔢 Event Viewer	2 KB	Shortcut	4/25/2008 9:29 PM	
Copy this file	🗊 Local Security Policy	2 KB	Shortcut	4/25/2008 9:29 PM	
🔁 E-mail this file	Remote A Strategy Microsoft .NET Framework 1	2 KB	Shortcut	4/25/2008 9:34 PM	
🗙 Delete this file	Remain and the Impact of the I	2 KB	Shortcut	4/25/2008 9:34 PM	
	Performance	2 KB	Shortcut	4/25/2008 9:29 PM	
-	Services	2 KB	Shortcut	9/30/2009 3:59 PM	
Other Places 🙁					
Control Panel					

The **Service** window appears.



You should not see any service named NOAA SEAS Mailer or NOAA SEAS Iridium Mailer.

If the NOAA Iridium Mailer service is still there it means that you did not uninstall the version of Iridium.exe that goes with the NOAA mailer service that you have. Double-Click the service NOAA Iridium Mailer and look at the **Path to executable**. Go to that path with you DOS window and again do **Iridium.exe -u**.

Make sure to refresh Services window to account for changes. The previous Iridium mailer must be removed.

Step 10: Adding Iridium Modem

This step is needed ONLY if using an Iridium modem. If using the computer's Internet connection to email then do not do this.

To add a serial external modem to Windows XP, press the Windows **Start** button to bring up the start menu and select **Control Panel**.



At the Control Panel window select Phone and Modem.



The Phone and Modem Option window appears.

Phone and Modem Options	? 🛛
Dialing Rules Modems Advanced	
The list below displays the location from which you are dialine Location from which you are dialine Locations:	ons you have specified. Select the ng.
Location	Area Code
My Location	33149
<u>N</u> ew	<u>E</u> dit
ОК	Cancel Apply

Click the **Modems** tab and then click **Add**.

Phone and Modem Options	? 🔀
Dialing Rules Modems Advanced	
The following modems are installed:	
Modem Attached To	
A <u>d</u> d <u>H</u> emove <u>P</u> ro	perties
OK Cancel	

The Add Hardware Wizard is launched. Click Don't detect my modem; I will select it from a list. Click Next.



Select **Standard Modem Types** in the left window and **Standard 19200 bps Modem** in the right window. Click **Next**.

Add Hardware Wizard	
Install New Modem	
Select the manufacturer an have an installation disk, cl	d model of your modem. If your modem is not listed, or if you ick Have Disk.
Manufacturer	Models 🔼
(Standard Modem Types)	Standard 9600 bps Modem Standard 14400 bps Modem Standard 19200 bps Modem Standard 28800 bps Modem
This driver is digitally signed. <u>Tell me why driver signing is imp</u>	<u>H</u> ave Disk
	< <u>B</u> ack <u>N</u> ext > Cancel

Select the appropriate COM port to which you are going to connect the Iridium modem (for example: COM1). Click **Next.**

Add Hardware Wizard	
Install New Modem Select the port(s) you w	ant to install the modem on.
	You have selected the following modern: Standard 19200 bps Modern On which ports do you want to install it? All ports Selected ports COM1 COM2 COM3 COM4 COM5
	< <u>B</u> ack <u>N</u> ext > Cancel

You will get a screen informing you to wait until Windows has installed the modem. The following screen then appears if everything worked. Click **Finish**.



Automatically you will return to **Phone and Modem Options** window then select the modem on the **Modems** tab and click **Properties**.

Phone and Modem Options	? 🔀
Dialing Rules Modems Advanced	
The following <u>m</u> odems are installed:	
Modem Att	ached To
Standard 19200 bps Modem COI	M1
A <u>d</u> d <u>R</u> emove	Properties
OK Cano	el <u>Apply</u>

Modem Properties window appears.

Standard 19200 bps Modem Properties		
General Modem Diagnostics Advanced Driver		
Standard 19200 bps Modem		
Device type: Modems		
Manufacturer: (Standard Modern Types)		
Location: Unknown		
Device status This device is working properly. If you are having problems with this device, click Troubleshoot to start the troubleshooter. If you are having problems with this device, click Troubleshoot to start the troubleshooter.		
Device usage:		
Use this device (enable)		
OK Cancel		

Click the **Advanced** tab. Enter the string **AT+CBST=71,0,1** in the **Extra initialization commands** box.

Standard 19200 bps Modem Properties 🛛 🔹 🔀
General Modem Diagnostics Advanced Driver
Extra Settings
Extra initialization commands:
AT+CBST=71,0,1
Change Default Preferences
UK

Click OK and close the Phone and Modem Options window.

If you have difficulty operating the modem clear the modem by turning on and off a few times.

Step 11: Creating Iridium Mailer Network connections

Press the Windows Start button	n to bring up the start	Caridad I. Gonzalez	
menu and select Control Panel		Mozilla Firefox	My Documents
		E-mail Mozilla Thunderbird	My Recent Documents +
		Wiew WS ETP 12 License	My Pictures
		Missoreft Visual C L L 6 2	Wy Computer
			Second Se
		Microsoft Word	Control Panel
		Microsoft Visual Studio 2008	Set Program Access and Defaults
		Paint	Connect To
			Help and Support
	1		Search
At the Control Panel window s	select Network	All Programs 📡	7 Run
Connections.			🖉 Log Off 🛛 🗿 Shut Down
👺 Control Panel			
<u>File Edit View Favorites Tools Help</u>			
🕝 Back 🔹 🌔 🔹 🏂 🔎 Search 🍋 F	olders 🛄 🗸		
Address 🚱 Control Panel			💙 ラ Go
Name 🔺	Com	ments	<u>^</u>
Switch to Category View	Options Chan Dptions Confi Java Cust	ige how Windows indexes files fo igure your Internet display and c (TM) Control Panel omize your keyboard settings, su	r searching. onnection settings. ch as the cursor blink rate a
See Also	Custo Connections Conn	omize your mouse settings, such ects to other computers, networ	as the button configuration ks, and the Internet.
Windows Update Phone an Windows Update Help and Support	d Modem Options Confi itions Confi nd Faxes Show	igure your telephone dialing rules igure energy-saving settings for is installed printers and fax printe	and modem settings. your computer. ers and helps you add new (
QuickTime	e Confi and Language Options Custo	igures QuickTime software and ha omize settings for the display of l	ardware components. anguages, numbers, times. 🚃
	1		

At the **Network Connections** screen in the left panel click **Create a new connection**.

S Network Connections						
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools	Adva <u>n</u> ced <u>H</u> elp				.
🕝 Back 🔹 🕥 – 🏂	Se 🔎	earch 😥 Folders 🛄 🕶				
Address 🔇 Network Connection	าร				~	> Go
-	^	Name	Туре	Status	Device Name	Phor
Network Tasks 🤇		LAN or High-Speed Interne	et in the second se			
Create a new connection Change Windows Firewall settings	=	🕹 Local Area Connection	LAN or High-Speed Inter	Connected	Intel(R) 82567LM-3 Giga.	
See Also						
Other Places	a 🗸	<				>

New Connection Wizard		
S)	Welcome to the New Connection Wizard	
	This wizard helps you:	
	Connect to the Internet.	
	 Connect to a private network, such as your workplace network. 	
	To continue, click Next.	
	< <u>B</u> ack <u>Next</u> > Cancel	

The New Connection Wizard is launched. Click Next.

Click the radio button labeled **Connect to the Internet**. Click **Next**.

New Connection Wizard
Network Connection Type What do you want to do?
 Connect to the Internet Connect to the Internet so you can browse the Web and read email. Connect to the network at my workplace Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location. Set up an advanced connection Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it.
< <u>B</u> ack <u>N</u> ext > Cancel

Click the radio button labeled **Set up my connection manually**. Click **Next**.

New Connection Wizard		
Getting Ready The wizard is preparing to set up your Internet connection.		
How do you want to connect to the Internet? Choose from a list of Internet service providers (ISPs)		
• Set up my connection <u>manually</u>		
For a dial-up connection, you will need your account name, password, and a phone number for your ISP. For a broadband account, you won't need a phone number.		
○ Use the <u>C</u> D I got from an ISP		
< <u>B</u> ack <u>N</u> ext > Cancel		

Click the radio button labeled **Connect using a dial-up modem**. Click **Next**.

New Connection Wizard
Internet Connection How do you want to connect to the Internet?
 Connect using a dial-up modem This type of connection uses a modem and a regular or ISDN phone line. Connect using a broadband connection that requires a user name and password This is a high-speed connection using either a DSL or cable modem. Your ISP may refer to this type of connection as PPPoE. Connect using a broadband connection that is always on This is a high-speed connection using either a cable modem, DSL or LAN connection. It is always active, and doesn't require you to sign in.
< <u>B</u> ack <u>N</u> ext > Cancel

Enter Iridium as the ISP name box. Click Next.

New Connection Wizard
Connection Name What is the name of the service that provides your Internet connection?
Type the name of your ISP in the following box. ISP N <u>a</u> me
Iridium
The name you type here will be the name of the connection you are creating.
< <u>B</u> ack <u>N</u> ext > Cancel

Enter the Iridium phone number **008816000023** in the **Phone number box**. Click **Next**.

New Connection Wizard
Phone Number to Dial What is your ISP's phone number?
Type the phone number below. Phone number: 008816000023 You might need to include a "1" or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct.
< <u>B</u> ack <u>N</u> ext > Cancel

Click the radio button labeled Anyone's use. Click Next.

New Connection Wizard		
Connection Availability You can make the new connection available to any user or only to yourself.		
A connection that is created for your use only is saved in your user account and is not available unless you are logged on.		
Create this connection for:		
⊙ Anyone's use		
<u> My</u> use only		
< <u>B</u> ack <u>N</u> ext > Cancel		

Leave User name and Password fields blank. Click Next.

New Connection Wizard					
Internet Account Inform You will need an accou	ation nt name and password to sign in to your Internet account.				
Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)					
<u>U</u> ser name:					
Password:					
<u>C</u> onfirm password:					
Use this account in this computer	ame and password when anyone connects to the Internet from				
✓ Make this the defau	It Internet connection				
	< <u>B</u> ack <u>N</u> ext > Cancel				

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New Connection Wizard	
S.	Completing the New Connection Wizard
	You have successfully completed the steps needed to create the following connection:
	 Iridium Make this the default connection Share with all users of this computer Use the same user name & password for everyone
	The connection will be saved in the Network Connections folder.
	Add a shortcut to this connection to my desktop
	To create the connection and close this wizard, click Finish.
	< <u>B</u> ack Finish Cancel

The new connection is complete. Click **Finish**.

Connect Iridiu	m	? 🛛
C		
<u>U</u> ser name: <u>P</u> assword:		
Save this use Me o <u>n</u> ly Anyone w	er name and password for the following use ho uses this computer	HS:
Djal:	008816000023	~
<u>D</u> ial	Cancel Properties <u>H</u>	elp

The Connect Iridium window should appear. Click Properties.

The window Iridium Properties appears. Click the Networking tab.

🕨 Iridium Properties 🛛 🖓 🔀
General Options Security Networking
Connect using:
Modem - Standard 19200 bps Modem (COM1)
Configure
Phone number
Area code: Phone number: 008816000023 Alternates
Country/region code:
✓
Use dialing rules Dialing Rules
✓ Show icon in notification area when connected
OK Cancel

Make sure only Internet Protocol and QoS Packet Scheduler is checked.

🕨 Iridium Properties 🛛 🕐 🗙
General Options Security Networking
Typ <u>e</u> of dial-up server I am calling:
PPP: Windows 95/98/NT4/2000, Internet 🛛 👻
<u>S</u> ettings
This connection uses the following items:
 □ □ □ □ File and Printer Sharing for Microsoft Networks ☑ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
I <u>n</u> stall <u>U</u> ninstall <u>Properties</u>
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

Click Settings and uncheck Enable software compression. Click OK.

PPP Settings	? 🗙
 Enable LCP extensions Enable software compression Negotiate multi-link for single link connections 	
ок с	ancel

You will return to the Iridium Properties window.

Click the **Options** tab. Make sure check boxes are checked as shown below. Redial **MUST** be turned OFF! **Or else we will pay too much money!**

🎍 Iridium Properties	? 🔀			
General Options Security Networking				
Dialing options Display progress while connecting Prompt for name and password, ce Include Windows logon domain Prompt for phone number	rtificate, etc.			
Redialing options				
<u>R</u> edial attempts:	0			
<u>Time between redial attempts:</u>	1 minute 🔽			
Idle time before hanging up: 20 minutes 💌				
Redial if line is dropped				
<u>×.25</u>				
	OK Cancel			

Click OK and close the Network Connections window.

Step 12: Installing Iridium Mailer Service

While **Iridium** is the name of this Mailer Service, this service is an SMTP service that can configure an Internet connection via Iridium modem or LAN connection. Once installed this service will restart automatically on reboot.

Insure that the **Iridium.exe** is found in the path **C:\Program Files\AMVERSEAS**.

Open a DOS window pressing the Windows **Start** button to bring up the start menu and select **Run**.



The **Run** window appears.

Run	? 🔀
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	zmd 💌
	OK Cancel Browse

Type cmd and click OK. This will get you to a command prompt.

The command to be typed into the DOS window is:

Iridium.exe –**i**, if transmitting using Iridium Modem. **Iridium.exe** –**i** -**lan**, if transmitting using computer Internet connection.

In the C:\Program Files\AMVERSEAS.



Executing this command installs the e-mailer as a Windows service. The command will create the directory path C:\Program Files\AMVERSEAS\Iridium\bin and copy the executable to that location.

😂 bin		
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp		1
🌀 Back 🔹 💿 🕤 🏂 🔎 Search 🛛	🄁 Folders 🔛 🕶	
Address 🗁 C:\Program Files\AMVERSEAS\Iridium	\bin	🖌 🄁 Go
Folders	× Name 🔺	Size
DELL	Cher Iridium Vers	
Documents and Settings		144 KB
	Time XmitStatus.txt	0 KB
■ 🔁 E11 ■ 🚞 I386	×	
	> <	>

Please be sure that you see C:\Program Files\AMVERSEAS\Iridium\bin\Iridium.exe.

If no, run **Iridium.exe -u** to uninstall and then reinstall by retyping the command. **Iridium.exe -i** or the **Iridium.exe -i -lan** as specified above.

Step 13: Checking if only one Iridium Mailer Service is up

Only one Iridium Mailer Service is permitted to run, check it.

Press the Windows **Start** button to bring up the start menu and select **Control Panel**.



At the Control Panel window select Administrative Tools.



At the Administrative Tools screen select Services.

😼 Administrative Tools					
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help				
🔇 Back 👻 🕥 - 🏂 🔎 Sea	arch 😥 Folders 🛄 🕶				
Address 🍓 Administrative Tools					🔽 🔁 Go
^	Name 🔺	Size	Туре	Date Modified	
File and Folder Tasks \land	Component Services	2 KB	Shortcut	4/25/2008 9:27 PM	
Departs this file	📕 Computer Management	2 KB	Shortcut	4/25/2008 9:29 PM	
	🗊 Data Sources (ODBC)	2 KB	Shortcut	4/25/2008 9:29 PM	
Move this file	🛃 Event Viewer	2 KB	Shortcut	4/25/2008 9:29 PM	
Copy this file	🗊 Local Security Policy	2 KB	Shortcut	4/25/2008 9:29 PM	
🔗 E-mail this file	Microsoft .NET Framework 1	2 KB	Shortcut	4/25/2008 9:34 PM	
🗙 Delete this file	America Strategy International	2 KB	Shortcut	4/25/2008 9:34 PM	
	Performance	2 KB	Shortcut	4/25/2008 9:29 PM	
	Services .	2 KB	Shortcut	9/30/2009 3:59 PM	
Other Places 🙁					
Control Panel					

The **Service** window appears.

						النكا	لغارك
File Action View	/ Help						
+ - 🖬 🗗 🖸) 🖳 🔮 🕨 = 🗉 ==						
Services (Local)	Services (Local)						
	NOAA SEAS Iridium Mailer	Name /	Description	Status	Startup Type	Log On As	^
		Net Logon	Supports p	Started	Automatic	Local Syst	-
	Start the service	NetMeeting Remote D	Enables an		Manual	Local Syst	
	1000 C C C C C C C C C C C C C C C C C C	Network Associates Mc		Started	Automatic	Local Syst	
		Network Associates Ta		Started	Automatic	Local Syst	
		Network Connections	Manages o	Started	Manual	Local Syst	
		Network DDE	Provides n		Disabled	Local Syst	
		Network DDE DSDM	Manages D	4001000	Disabled	Local Syst	
		Network Location Awa	Collects an	Started	Manual	Local Syst	
		Network Provisioning	Manages X	Charles	Manual	Local Syst	
		B NOAA CEAC Infamilia		Starteu	Automatic	goos/penain	
		SANGAA SEAS SMTP Maler		Started	Automatic	Local Syst	
		SNT LM Security Suppo	Provides se	Junicea	Manual	Local Syst	~
	Extended (Standard)	Contractional composition			11011000	com of run	101

Be sure that only one Iridium Mailer Service is up.

Step 14: Starting Iridium Mailer Service to run automatically

Press the Windows **Start** button to bring up the start menu and select **Control Panel**.



At the Control Panel window select Administrative Tools.



At the Administrative Tools screen select Services.

😼 Administrative Tools					
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help				
🚱 Back 🝷 🜍 🕤 🏂 🔎 Sea	arch 😥 Folders 🛄 🗸				
Address 🍓 Administrative Tools					🔽 🔁 Go
	Name 🔺	Size	Туре	Date Modified	
File and Folder Tasks \land	Component Services	2 KB	Shortcut	4/25/2008 9:27 PM	
Departs this file	📕 Computer Management	2 KB	Shortcut	4/25/2008 9:29 PM	
	🔂 Data Sources (ODBC)	2 KB	Shortcut	4/25/2008 9:29 PM	
Move this file	🛃 Event Viewer	2 KB	Shortcut	4/25/2008 9:29 PM	
Copy this file	🗊 Local Security Policy	2 KB	Shortcut	4/25/2008 9:29 PM	
🔗 E-mail this file	Microsoft .NET Framework 1	2 KB	Shortcut	4/25/2008 9:34 PM	
🗙 Delete this file	Microsoft .NET Framework 1	2 KB	Shortcut	4/25/2008 9:34 PM	
	Performance	2 KB	Shortcut	4/25/2008 9:29 PM	
	Services	2 KB	Shortcut	9/30/2009 3:59 PM	
Other Places 🛞					
Control Panel					

The Service window appears. Double-Click the service NOAA Iridium Mailer.

File Action View	/ Help									
+ - 🔳 🗗 🖸) 🖫 😢 🕨 = 🗉 🕬									
🚭 Services (Loca)	Services (Local)									
	NOAA SEAS Iridium Mailer	Name /	Description	Status	Startup Type	Log On As	^			
		Net Logon	Supports p	Started	Automatic	Local Syst	1			
	Start the service	NetMeeting Remote D	Enables an		Manual	Local Syst				
	1011111111111	Network Associates Mc		Started	Automatic	Local Syst				
		Network Associates Ta		Started	Automatic	Local Syst				
		Network Connections	Manages o	Started	Manual	Local Syst				
		Network DDE	Provides n		Disabled	Local Syst				
		Network DDE DSDM	Manages D	Chanterd	Usabled	Local Syst				
		Network Droukinging	Manager V	Started	Manual	Local Syst				
		NOAA Cateman Eles	manages A	Started	Automatic	doos'sching				
		NOAA SEAS Indum Ma		Jearcea	Manual	Local Syst				
		NOAA SEAS SMTP Maler		Started	Automatic	Local Syst				
		SNT LM Security Suppo	Provides se		Manual	Local Syst	~			
	Extended (Standard /									
	(contained / contained /						_			

The Iridium Mailer Properties appears.

eneral Log On	Recovery Depende	encies				
Service name:	NOAA SEAS Iridiu	m Mailer				
Display name:	NOAA SEAS Iridiu	ım Mailer				
Description:			~ ~			
Path to executable	e:					
c:\Program Files\	AMVERSEAS\Iridium	\bin\lridium.exe				
Startup type:	Manual					
Service status:	Stopped					
Start	Stop	Pause	Resume			
You can specify th here. Start parameters:	ne start parameters th	at apply when you sta	art the service from			

Change the **Startup type** to **Automatic**. Click **Start** button. The Service will now monitor the directory **C:\Program Files\AMVERSEAS\Iridium\queue** once per minute and send any deliverable files through e-mail.

If the call does not complete, a retry will occur 6 minutes after the initial try and if there is another failure a retry will occur 11 minutes after the first retry. If the second retry fails, there will be a 12-hour wait before another attempt unless the service is restarted.

In order stop this service double click on service to **Stop**. This will need to be done if the **AMVERSEAS** folder is moved or renamed. Please restart service when ready.

Customizing Installations

After you have installed the AMVER-SEAS application, it is wise to perform a simple startup test to validate that there are no major problems. You can also customize your installation by setup the AMVER-SEAS components, performance hardware test and downloading some software that can help you on the debug process. We recommend following test, and software:

- Check applications' setup of:
 - 1. TimeServer
 - 2. Thrane & Thrane Transceiver
 - 3. AutoIMET
 - 4. XBT
 - 5. TSG
- Test MK21 with Hand Launcher -performance a drop.
- Test Iridium transmission -if applicable.
- Test Thrane & Thrane transmission -if applicable.
- Check TSG Xmitter setup for correct transmission interval.
- Install back up(s) AMVER-SEAS software on the computer on the Desktop.
- Load NAL SatTerm software for Iridium computers Version 3.3.0.
- Load any software relevant to cruise.
- Load this and other manuals relevant to cruise.

Troubleshooting

1. If ever you need to remove AMVER-SEAS of the computer be sure that the Iridium Mailer Service is disabled or it will lock up your computer.

Step	Task	С	Comments
~~~		h	
		e	
		c	
		k	
1	Remove all anti virus software or fix port 25		
-	exception.		
2	Install WinMK21.		
3	Install MK21 USB device driver.		
4	Install AMVER-SEAS.		
5	Check AMVER-SEAS and Iridium version for		
	this ship setup. Look at		
	ftp://ftp.aoml.noaa.gov/pub/phod/seas/Installs/		
	Version info.xls.		
6	Set AMVER-SEAS Startup setup. Look at		
	Main Menu Setup Setup AmverSeas		
	Configuration Setup All – Enable/Disable.		
7	Set appropriate transmission type. Look at		
	Main Menu Setup Transmission Type.		
8	Test comports. (COM1, COM2, COM3,)		
9	Uninstall previous Iridium application's		
	version if any installed.		
10	Add Iridium modem (COM1).		
11	Create Iridium mailer network connection.		
12	Install Iridium Mailer Service.		
13	Iridium Service - Only 1 up.		
14	Start Iridium Mailer Service to run		
	automatically.		
15	Check applications' setup:		
	TimeServer		
	AutoIMFT		
	XBT		
	TSG		
16	Test MK21 with Hand Launcher -performance		
	a drop.		
17	Test Iridium transmission -if applicable.		
18	Test Thrane & Thrane transmission -if		
	applicable.		
19	Check TSG Xmitter setup for correct		
	transmission interval.		
20	Install back up(s) AMVER-SEAS software on		
	the computer on the Desktop.		
21	Load NAL SatTerm software for Iridium		
	computers Version 3.3.0.		
22	Load any software relevant to cruise.		
23	Load any manuals relevant to cruise.		

# Setup of AMVER-SEAS computer for cruise check list

Notes: