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ABOUT THE EXXON VALDEZ OIL SPILL RESEARCH AND RESTORATION CD-ROM

The Exxon Valdez Oll Spill (EVOS) Research and Restoration CD-ROM is a publication of the compiled data from this spill. Included herein are:

- The EVOS Geographic Information System (GIS) Database and Data Dictionary (with a run time only ArcView® application):
- . The Exxon Valdez Oil Spill of 1989: State/Federal Trustee Council Hydrocarbon Database (with a NOAA customized application)
- . The EVOS Project Bibliography (with a run time FileMaker Pro® application).

ACKNOWLEDGMENTS

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- US Forest Service. Chugach National Forest (USFS, CNF)
- . US Fish and Wildlife Service (USFWS)
- · US Geological Survey, EROS Alaska Field Office (USGS, EROS)
- · Bureau of Land Management (BLM)
- US Mineral Management Services (MMS)

- US National Park Service (USNPS)
- Alaska Department of Fish and Game (ADF&G)
- Alaska Department of Environmental Conservation (ADEC)
- · Interagency Spill Control Center, Muiti-agency Response Group in Valdez (ISCC)
- · Kenai Peninsula Borough (KPB)
- · Municipality of Anchorage (MUNI)

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NOTE: Run time ArcView is available for Windows only.

RECOMMENDED SYSTEM CONFIGURATIONS

WINDOWS

- Pentium Processor (100 mHz or better)
- Windows 95 or NT
- 24mb of RAM
- Bx+ speed CD-ROM If using CD for data access
- 500 mb of disk space if using a hard drive for data access

MACINTOSH

PowerPC

System 7.5 or higher

- 32mb RAM
- Bx+ speed CD-ROM if using CD for data access
- 500mb of disk space if using a hard drive for data access

UNIX

- Sun, DEC, IBM, Hewlett-Packard, or SGI
- Most Current OS
- 48mb of RAM
- Bx+ speed CD-ROM If using CD for data access
- 500mb of disk space if using a hard drive for data access

IMPORTANT:

- To install, please read the instruction file (notes.txt) on the CD-ROM.

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- See State of Alaska limited liability clause on CD (notes.txt).



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RESEARCH & RESTORATION





INTRODUCTION

INTRODUCTION

[These installation notes were revised 5/19/97; and therefore supersede the digital versions included on the CD.]



n behalf of the Eoon Valdez Oli Spill (EVOS) Trustee Council, the Alaska Department of Natural Resources (ADNR) is pleased to present the EVOS Research and Restoration Information Project CD-ROM. Included herein are:

- the EVOS Geographic Information System (GIS) Database and Data Dictionary;
- * the Exor Valdez Oil Spill Project Bibliography; and
- * the Evon Valdez Oll Spill of 1989: State/Federal Trustee Council Hydrocarbon Database.

THE EVOS GEOGRAPHIC DATABASE AND DATA DICTIONARY are being provided with an ArcView® application. ArcView is a commercial product developed by Environmental Systems Research Institute (ESRI) that brings Geographic Information System (GIS) capabilities to the deektop. A Windows run-time version, called EVOSMAP, is provided for your convenience (using ArcView Data Publisher* software). If you don't have an ArcView license, you must install EVOSMAP on your machine. This will allow you to view the GIS database and data dictionary with built-in tools without requiring the ArcView software. However, in order to save any of your work, you will need to have your own ArcView license. If your working platform is UNIX or Macintosh, you must own an ArcView license to view the application and database. Additionally, in order for the EVOS Help to work (on Macintosh and UNIX platforms), you must also install a run-time version of Adobe's Acrobat Reader®. Please refer to the section specific to your platform for detailed installation instructions. THE EXXON VALDEZ OIL SPILL RESEARCH & RESTORATION PROJECT BIBLIOGRAPHY contains basic information about projects funded by the Exxon Valdez Oil Spill Trustee Council. Each record or project has a screen which provides basic information about that project, including a description of the project, a summary of the methodology, a summary of the objectives, and contact information for the project. Information has also been collected which describes the data that has been compiled in support of the project and an abstract of the final or annual report with a complete citation, results or conclusions and reference when possible. This database, FileMaker Pro for both Macintosh and Windows platforms, is a product of Claris Corporation. A run-time and/or installation version is provided for both platforms, and can be found in the ../bib directory at the root level of the CD. [Note: An abbreviated version of the project Bibliography can be accessed from the ArcView EVOS project (all versions) by choosing "EVOS Project Bibliography" from the EVOS menu.]

The Hydrocarbon Database application was developed by Auke Bay Fisheries Laboratory (NOAA) using Visual Basic. Since the application is Windows based, it can only run under the Windows 3.11, Windows 95, or Windows NT operating systems. The installation requires about 12 Mbytes of disk space, and is similar to other Windows based software installations. See the specific instructions for the Hydrocarbon Database installation.

Note: The digital version of this Microsoft Word document, as well as a plain text version, is found at the root level of the CD.

"The ArcView Data Publisher was tested on Windows NT 4.0 with inconsistent results; for Windows 3.1 platform, please see the ArcView Help topic "Optimizing ArcView on Windows 3.1"

WINDOWS

WINDOWS 3.11, WINDOWS 95, WINDOWS NT

EVOS GIS DATABASE AND DATA DICTIONARY INSTALLATION...

IF YOU DO NOT HAVE AN ARCVIEW LICENSE:

f you don't already own ArcView, you will need to install the EVOSMAP application onto your machine. IF YOU ARE PLANNING ON INSTALLING THE EVOS DATA TO YOUR HARD DRIVE, YOU MUST MAKE SURE YOU HAVE AT LEAST 500 MBYTES OF FREE SPACEI THE INSTALL PROCEDURE DOESN'T VERIFY THIS, IT JUST COPIESI [To verify disk space on NT or Windows 95, double-click on the "My Computer" icon; click on the drive you will be using; then from the File menu, choose Properties...]

STEP 1. START THE INSTALLATION WIZARD

On the CD in a directory called EVOSDATA, you will find a file called SETUP.EXE To start the installation wizard, double-click on the SETUP.EXE from your Windows Explorer or use the Windows run command:



Note: There are two ways to use the run-time version of ArcView. You can install only the application, and read the data from the CD-ROM, or you can install both the application and the data onto your hard drive (which requires at least 500 Mbytes of space). The latter is recommended if you have a slow CD (4X or 6X). The former works fine if you have a fast CD, or if you don't mind waiting for data themes to draw.

TO INSTALL THE APPLICATION ONLY, click the EVOSMAP component when prompted, and click on CONTINUE. We recommend you use the defaults, and install the application to the c:\ drive, if possible. Under Windows 95, you will need to close the MS-DOS xcopy window for the installation process to finish.

When the install is complete, an EVOSMAP program group will appear on your desktop. In order for it to be fully functional, you must modify the environmental variable in the EVOSMAP startup file. GO TO STEP 2.

TO INSTALL BOTH APPLICATION AND DATA ON YOUR HARD DRIVE, click both the

EVOSMAP and DATA components when prompted, and click on CONTINUE. Follow the instructions on the screen. We recommend you take the defaulte, so that the application and data are loaded to the c: drive. AGAIN, BE SURE YOU HAVE ENOUGH DISK SPACE IF YOU PLAN TO LOAD THE DATAI THE DATA PUBLISHER INSTALL WIZARD IS NOT VERY SOPHISTICATED. IT ASSUMES YOU HAVE THE SPACEI Under Windows 95, you will need to close the MS-DOS xcopy window for the installation process to continue.

If you have installed both the application and the data to the c:\ drive by choosing the defaults, you don't need to do anything else. GO TO STEP 3.

If you have installed the data and application to a location other than the c: drive, or if you are reading the data from the CD-ROM, you will need to modify a file so that the application can find the data. Continue with Step 2.

STEP 2. MODIFY THE ENVIRONMENTAL VARIABLE

To modify the OS_AV environment variable so that the runtime ArcView can find the required project data, perform the following steps:



- In the EVOSMAP/EVOSAPP directory that was installed on your hard drive, there is a sub-directory called "etc". Locate the file called "startup" and open it using Windows NOTEPAD, WORDPAD, or another text editor you are familiar with.
- Find the following line and make the necessary path change. (i.e. if you installed data to other than the c: drive, change the c: to the appropriate drive letter)
 - System.SetEnvVar("OS_AV","c:\evosmap\evosdata\os_av")

If you are reading the EVOS data from the CD-ROM, modify the line in the startup file to look like this (using the appropriate drive letter for your CD-ROM):

System.SetEnWar("OS_AV","e:\evosdata\data\os_av")

3. Remember to save the file after you have made changes.

STEP 3. START EVOSMAP

Double-click on the EVOSMAP icon in the program group window that was generated by the install process. If you can't find the program group, click on the START button and look under Programs for EVOSMAP. This will start the runtime ArcView application, automatically loading the EVOSMAP project (evosmap.apr).

Once the application is open, we strongly recommend that you review the on-line help for both $\ensuremath{\mathsf{ArcView}}$ and the EVOS project.

PROBLEMS RUNNING THE EVOSMAP APPLICATION?

SEVERAL THINGS YOU MAY WANT TO CONSIDER:

- * If you have moved your data around on your hand drive AFTER INSTALLING, the EVOSMAP icon Properties may need to be changed so that the application can find the EVOSMAP.APR project file. See "To Modify EVOSMAP icon Properties" below.
- * If EVOSMAP starts up, but it can't find the data, and prompts you for its location, click CANCEL ALL, EXIT from ArcView, and go back and review STEP 2. The OS_AV variable in the startup file must point to the OS_AV data directory, whether it's on your machine, or whether you're pointing to the CD.
- * If you chose the defaults and you loaded both application and data, make sure all the data copied. If the files in your c:\EVOSMAP\EVOSDATA\OS_AV directory don't match the files on the CD (In the EVOSDATA/DATA/OS_AV directory) then perhaps the copy dldn't finish. Delete the entire EVOSMAP directory, make sure you have at least 500 Mbtyes of space, and try the install again.
- * For more information, please consult the Exxon Valdez CD-ROM FAQ page, located in the Public Resources section of the EVOS Restoration Office web site (www.oilspill.state.akus).

TO MODIFY THE EVOSMAP ICON PROPERTIES:

To modify the properties of EVOSMAP icon so that the EVOSMAP application (EVOSMAPEXE) can find the EVOS project (EVOSMAPAPR), find the Program Group (created during the install process) that contains the EVOSMAP icon.

Make sure that the properties are accurately set to open the application. Since the





WINDOWS

EVOSMAP.EXE can only be started with the EVOSMAP.APR project file, the icon target command or the command used with the Windows Run menu must contain both the executable and the project file.

For example, if you have installed both application and data to the d: drive, the EVOSMAP icon target (or Windows Run command) would look like this:

d:\evosmap\evosapp\bin\evosmap.exe d:\evosmap\evosdata\evosmap.apr

If you installed the application to your c: drive, and wish to read the data from your CD-ROM, the EVOSMAP icon target would look like this (where e: is the location of the CD-ROM drive):

c:\evosmap\evosapp\bin\evosmap.exe e:\evosdata\data\evosmap.apr

IF YOU ALREADY HAVE AN ARCVIEW LICENSE:

If you already own a copy of ArcView, you can use the provided ArcView project files found in the evosdata/data directory of the CD. Several versions of ArcView project files are provided for the Windows, Macintosh, and UNIX operating systems, so be are to choose the right cre. In the case of Windows, we have provided a project file for ArcView versions 2.1 and 3.0 (ewin2Lapr and ewin30.apr; respectively). Before opening a project file with ArcView, you will need to set an environment variable so that the project file can locate the associated data. If you don't set the environment variable, the project will not open properly.

TO SET THE OS_AV ENVIRONMENT VARIABLE so that ArcView can find the required project data, you must add a line of code to the ArcView startup file: Open the ..lesrlav_gis30\aroview\etc\startup file using notepad, wordpad or some other text editor you are familiar with. (Be sure to save a copy of the original startup file just in casel) Edit the file by inserting a line of code (see example) which sets an environment variable specifying the location of the mapping data. In the following example, e indicates the location of the CD-ROM drive:

EXAMPLE:

System.SetEnWar("OS_AV", "e:levosdataldatalos_av")

THE FOLLOWING SHOWS THE RECOMMENDED LOCATION IN THE FILE TO INSERT THE ENVIRONMENT VARIABLE.

* Check for a valid project workspace — the directory must be writable. havePath = false for each var in {"HOME", "TEMP", "CWD", "AVHOME"} path = System.GetEnWar(var) if (path <> NiL) then if (File.Exists(path.AsFileName) and File.IsWhitable(path.AsFileName)) then System.SetEnWar("HOME", path) havePath = true break end end end System.SetEnWar("OS_AV","e:\evoedata\data\os_av")

Remember to save the file after you have made changes.

WINDOWS

EVOS PROJECT BIBLIOGRAPHY INSTALLATION ...

he Project Bibliography application was developed using FileMaker Pro Version 2.1. The application is only available to Windows and Macintosh users. A run-time and installation version are provided for both platforms and can be found in the .../bib directory at the root level of the CD (see diagram below). Note: An abbreviated version of the project bibliography can be accessed from the ArtView EVOS project (all versions) by choosing "EVOS Project Bibliography" from the EVOS menu.



IF YOU HAVE FILEMAKER PRO Vension 21:

If you already have FileMaker Pro, you must use your program to open the project.fm file, found in the /Bib/Windows/Runtime directory on the CD.

IF YOU HAVE FILEMAKER PRO Vension 3.0:

if you have FileMaker Pro version 3.0, copy the files project.fm and help.fm (found in the /Bib/Windows/Runtime directory on the CD) to your hand drive. You can then open these files through FileMaker Pro version 3.0. FileMaker Pro will guide you through the steps necessary to convert these files to version 3.0. [Note: Be sure to choose "Rename old file..." option, when prompted].

IF YOU DO NOT HAVE FILEMAKER PRO:

if you don't have FileMaker Pro, a run-time version is provided which can be executed from the CD.

To run the Project Bibliography from the CD, double-click on the fmpuser.exe file from your Windows Explorer or File Manager. (If you use the run-time version and you already have FileMaker Pro installed on your machine, you may need to modify one or more pathnames in the clarisini file in order to run your version of FileMaker Pro again!)

For better performance of the run-time version of FileMaker Pro, the entire bib/windows/runtime directory can be copied from the CD to your hard drive. To run the Project Bibliography from your hard drive, open the runtime directory from your Windows Explorer or File Manager, and double-click on the fmpuser.exe file.

Please check the EVOS Restoration Office web site (www.olispill.state.ak.us) for additional information and user instructions regarding the EVOS Project database.

HYDROCARBON DATABASE INSTALLATION...

he Hydrocarbon Database application was developed using Visual Basic. Since the application is Windows based, it can only run under the Windows 3.11, Windows 95, or Windows NT operating systems. The installation requires about 12 Mbytes of disk space, and is similar to other Windows based software Installations.

STEP 1. INITIATE INSTALL PROCESS

On the CD locate the "hycarbon" directory. This directory contains the SETUPEXE file that will install the application. To start the installation double-click on the SETUPEXE from your Windows Explorer or use the Windows run command.



STEP 2. FOLLOW PROMPTS

The SETUPEXE will start the installation wizard. In some cases you may get an error message when the application installs. This is because the application is trying to copy a file already in use. If this occurs click 'OK' when prompted. The installation program will continue to install the hydrocarbon application.

During the installation we recommend that you accept the defaults. Once completed, the following message will display:



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The installation will create a program folder that contains the application and associated help file. Click on the EVTHD icon to start the application. We recommend you investigate the online help for more information on how to navigate the hydrocarbon database.



MACINTOSH

EVOS GIS DATABASE AND DATA DICTIONARY INSTALLATION...

he project files available for the Macintosh platform are for ArcView version 2.1 and 3.0 (evmac21.apr and evmac30.apr; respectively). You must have an ArcView license to use these files. These files are found on the CD in the evosdata/data directory. In order to be able to read the EVOS Help files and Project Bibliography from the ArcView application, you must first install the Adobe Acrobat Reader onto your machine (Step 1). Once this is accomplished, you will need to set two variables in the startup file of your ArcView application (Step 2).

STEP 1. ACROBAT READER INSTALLATION

The file for the Macintosh is a self-extracting file that will automatically install Adobe Acrobat Reader on your machine. It is found in the Adobe folder, and is called arws30e.sea. When you double click on this file a folder called Reader + Search will be installed on your hard drive. Within this file are two folders, Reader and Search. Open the Reader folder and double click on the installer icon. This installation process will place files in the system folder and will ask you where you want to place the Acrobat Reader application files. Please make a note of this location.

Once Acrobat is installed, set an environmental variable (ADOBE) in the ArtView startup file to point to the Acrobat reader program. At the same time, set the OS_AV variable to show ArtView where the EVOS data is located.

MACINTOSH

STEP 2.

SET ENVIRONMENT VARIABLES IN THE ARCVIEW STARTUP FILE

TO SET THE ADOBE AND OS_AV ENVIRONMENT VARIABLES so that ArcView can find the Acrobat Reader executable and the EVOS data, you must add two lines of code to the ArcView startup file: (See the Windows example for more instructions on where to insert the environment variable settings within the startup file.)

In the ArcView installation folder, find the etc folder, and open the file called startup (save a copy of the original startup file just in casel). Use the text editor of your choice. In the following example, the first line sets the ADOBE variable, and the second line sets the OS_AV variable. When you add these lines to your startup file, you must modify the "MyVolume:MyFolder" portion of both lines to reflect the actual locations of the respective application and data on your machine:

EXAMPLES:

System.SetEnWar("ADOBE","MyVolume:MyFolder:Adobe Acrobat 3.0:Acrobat™ Reader 3.0")* System.SetEnWar("OS_AV","MyVolume:MyFolder:evosdata:data:os_av")

"The (symbol is required; use a cut and paste operation to include it in the pathname...

In the following example, the OS_AV variable specifies the CD drive:

System.SetEnWar("OS_AV","EVOS:evosdata:data:os_av")

Remember to save the file after you have made changes.

SPECIAL NOTES FOR MACINTOSH USERS:

To optimize performance of ArcView in this environment:

- * Set Disk Cache to at least 1024K in the Memory control panel;
- * If you think you may not have enough RAM installed in your machine, turn on virtual memory while in this Control Panel.
- Allocate at least 20 Mbytes of RAM to the ArcView application [use Get Info from the File menu];
- If ArcView runs out of memory or appears to hang, consider turning on virtual memory and/or adjusting the amount of memory allocated to the ArcView application.
- * See ArcView Help topic "Optimizing ArcView on Macintosh" for more details ...
- * Read the ArcView GIS Installation Guide for Macintosh

EVOS PROJECT BIBLIOGRAPHY INSTALLATION...

The Project Bibliography application was developed using FileMaker Pro Version 2.1. The application is only available to Windows and Macintosh users. A run-time and installation version are provided for both platforms and can be found in the ../bib directory at the root level of the CD. [Note: An abbreviated version of the project bibliography can be accessed from the ArcView EVOS project (all versions) by choosing "EVOS Project Bibliography" from the EVOS menu.]





MACINTOSH

IF YOU HAVE FILEMAKER PRO Vension 21:

If you already have FileMaker Pro, use your program to open the project.fm file, found in the /Bib/Mac/Runtime folder.

IF YOU HAVE FILEMAKER PRO Version 3.0:

If you have FileMaker Pro version 3.0, copy the files project.fm and help.fm (found in /Bib/Mac/Runtime directory on the CD) to your hard drive. You can then open these files through FileMaker Pro version 3.0. FileMaker Pro will guide you through the steps necessary to convert these files to version 3.0. [Note: Be sure to choose "Rename old file..." option, when prompted].

IF YOU DO NOT HAVE FILEMAKER PRO:

If you do not have FileMaker Pro, a run-time version is provided which can be executed from the CD. To run the Project Bibliography from the CD, double-click on the project.fm icon in the runtime folder of the CD. This will launch the project file and the FileMaker Pro application. No files will be placed on your computer's hard drive.

To install a run-time version of FileMaker Pro and the Project Bibliography on your computer's hard drive, open the Install folder and double-click the Installer icon found in this folder. A copy of FileMaker and aesociated files will be installed on your computer's hard drive. Next, copy the project.fm and help.fm files to the FileMaker Pro User folder now located on your hard drive. You may now open the project.fm file by double-clicking on its icon. Remember that this is a functional version of the application with some limitations. You CAN edit text and make changes to the database. If you accidentally change data, you may need to restore the database by dragging another copy from the CD over to your hard drive.

Please check the EVOS Restoration Office web site (www.oilspill.state.ak.us) for additional information and user instructions regarding the EVOS Project database.



UNIX

EVOS GIS DATABASE AND DATA DICTIONARY INSTALLATION

or the UNIX platform, you must own an ArcView 3.0 license to view the EVOS application and data. The project file is called evunix30.apr. In order to be able to read the EVOS Help files and Project Bibliography from the ArcView application, you must first install the Adobe Acrobat Reader onto your machine (Step 1). Once this is accomplished, you will need to set two variables from the UNIX prompt (Step 2).

STEP 1. ACROBAT READER INSTALLATION

The file for the Sun is a compressed UNIX tar file. The tar files are found in the Adobe directory on the CD. Copy the platform specific tar file to your hard drive (sunos - snos3tarz, solaris - solr3tarz), changing the lowercase z extension to an uppercase Z extension. Use the "zcat <filename> I tar -xrf -" syntax to extract the files, then install using the provided instructions. [Use the syntax "./INSTALL" from the unix prompt to initiate the install process, and follow the prompte...]

STEP 2. SET ENVIRONMENTAL VARIABLES

TO SET THE ADOBE ENVIRONMENT VARIABLE so that ArcView can find the Acrobat Reader executable:

UNIX

Once Acrobat is installed, from the UNIX prompt, set an environmental variable called ADOBE which points to the Acrobat Reader program. An example follows:

EXAMPLE:

setenv ADOBE /opt/Acrobat3/bin/acroread TO SET THE OS_AV ENVIRONMENT VARIABLE so that ArcView can find the required project data:

From the UNIX prompt, set a variable called OS_AV to point to your CD-ROM directory, or to wherever you've downloaded the data. An example follows:

EXAMPLE:

setenv OS_AV /cdrom/evosdata/data/os_av

These environmental variables are only set for the duration of the current process, and will need to be reset if you log out. If you will be using the EVOS application on a regular basis, you may want to include the above in your cohrc file, to set it automatically every time you log on (or check with your system administrator).



ADDITIONAL SUPPORT

If you need help with any of the products available on this CD, be sure to consult the Exoon Valdez CD-ROM FAQ page, located in the Public Resources section of the EVOS Restoration Office web site (www.olispill.state.ak.us). Telephone support is available at (907) 278-8012 or 1-800-478-7745 (inside Alaska); or 1-800-283-7745 (outside Alaska). Please ask for CD-ROM support when calling.

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