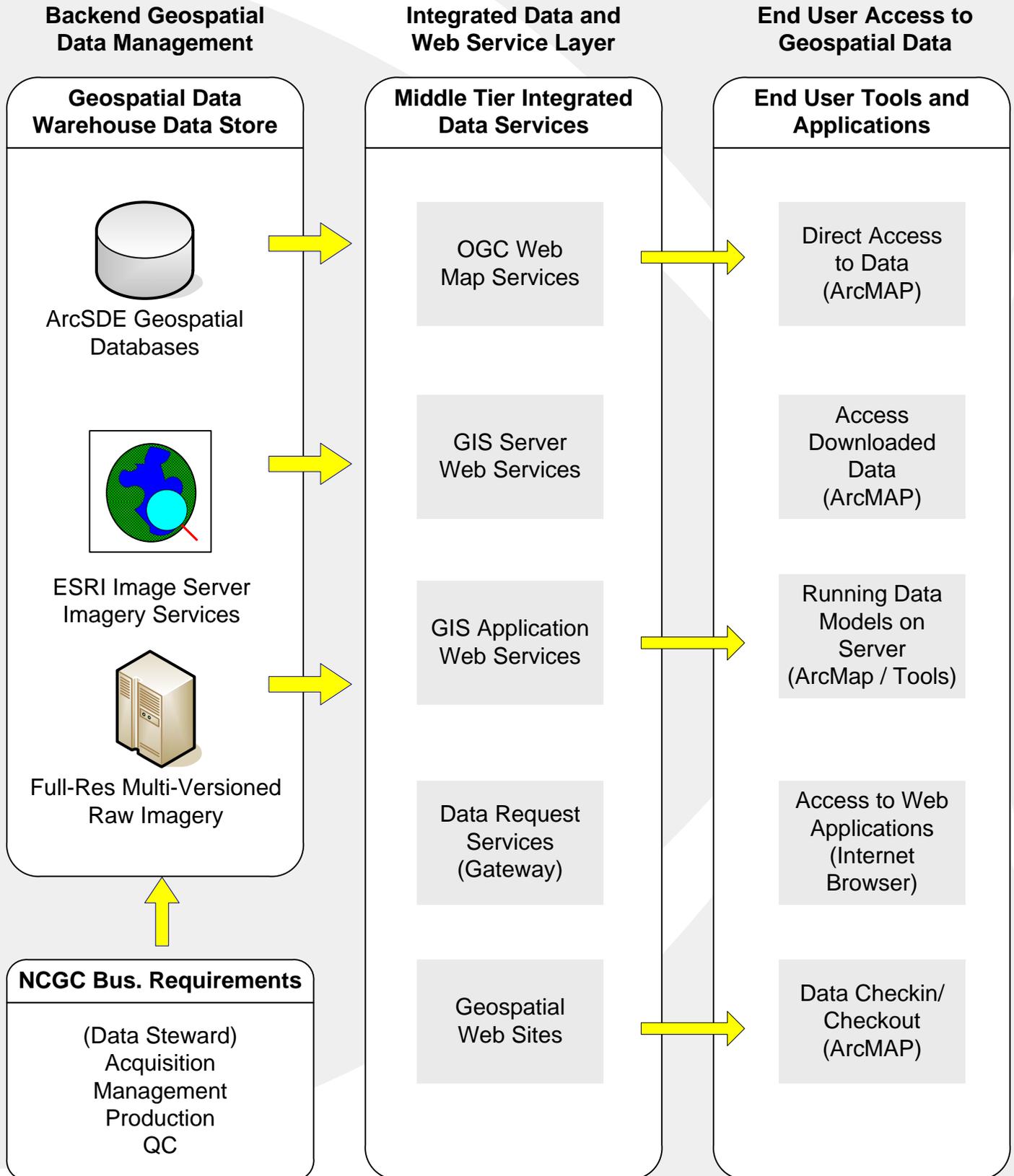
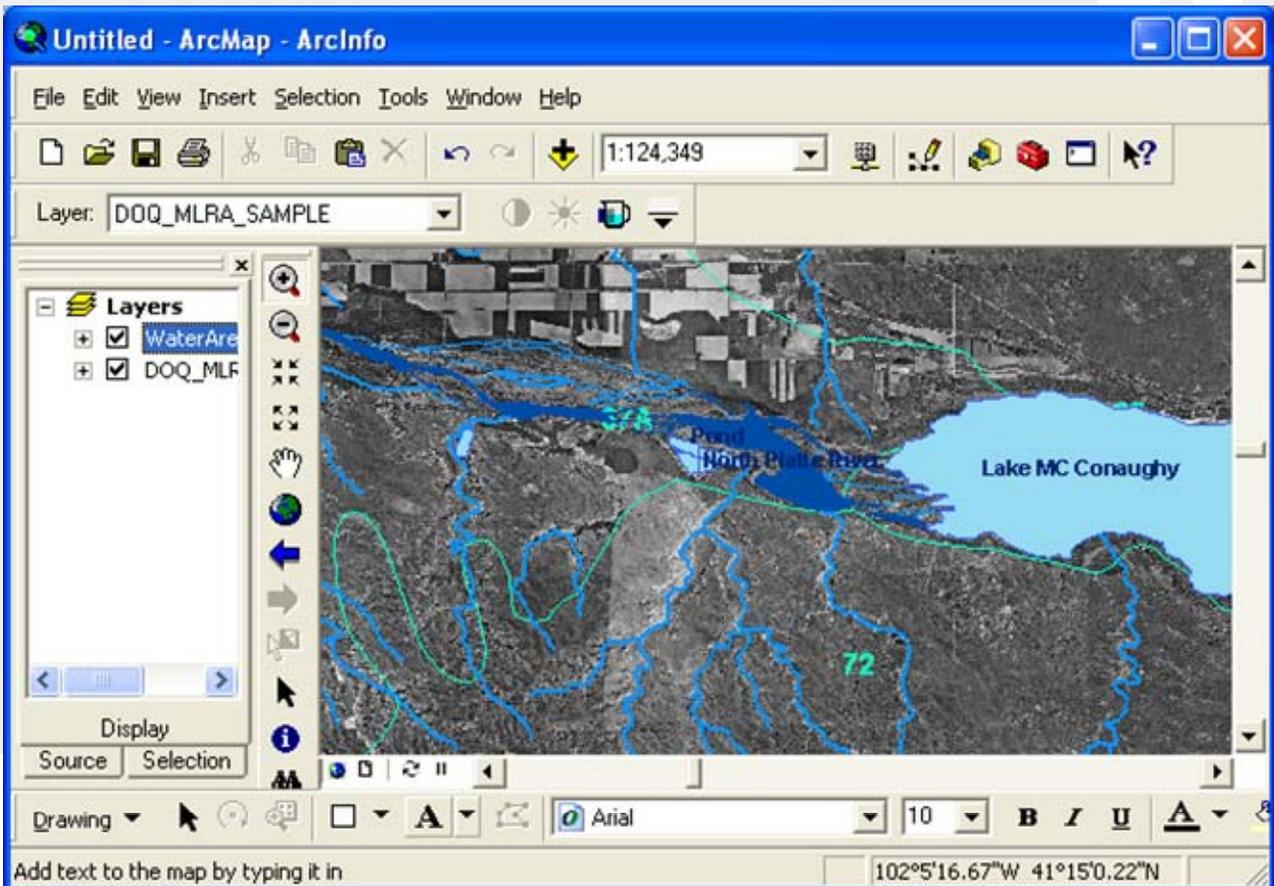
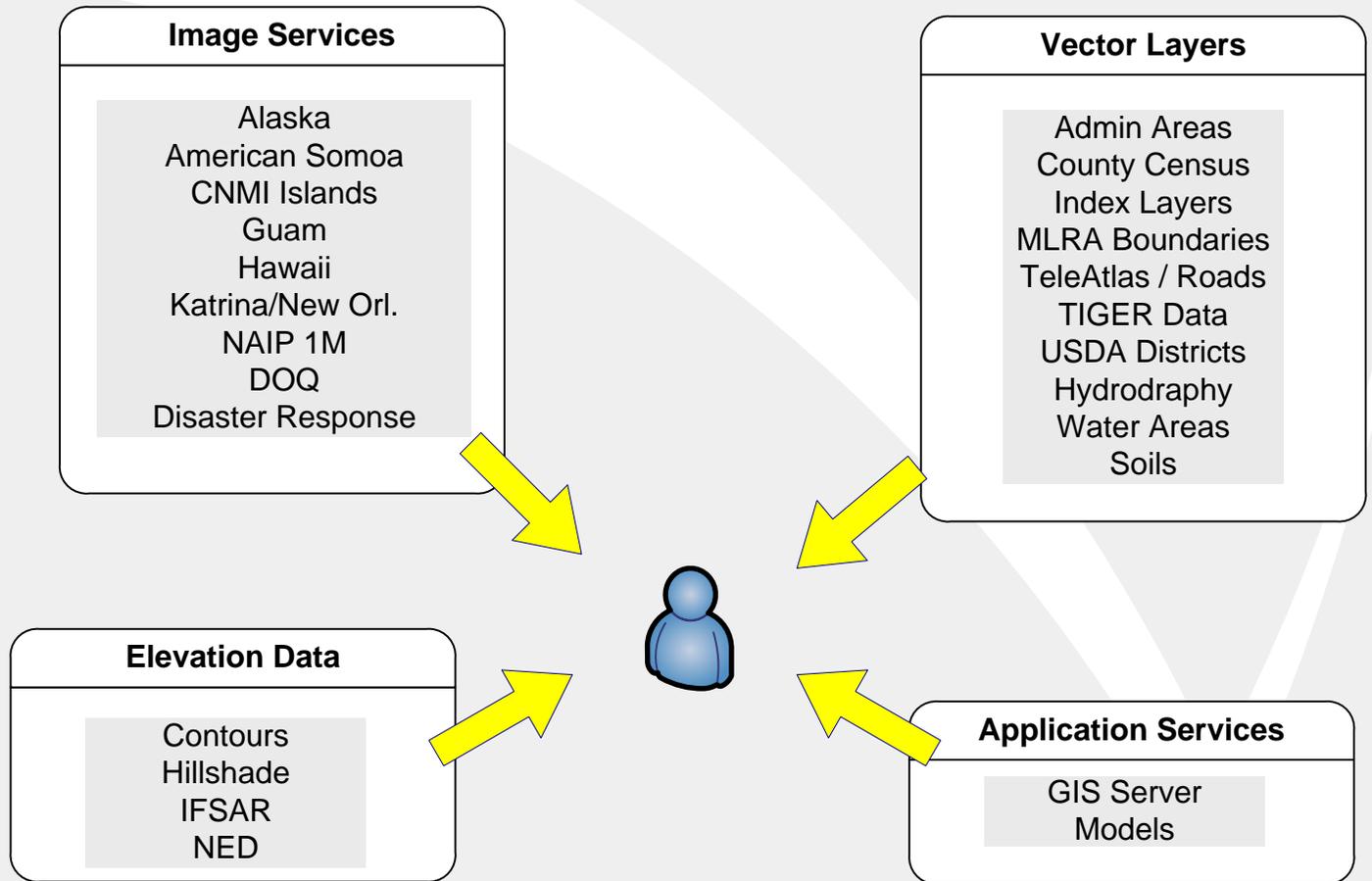


NCGC Integrated Geospatial Data and Imagery Web Services – Overview

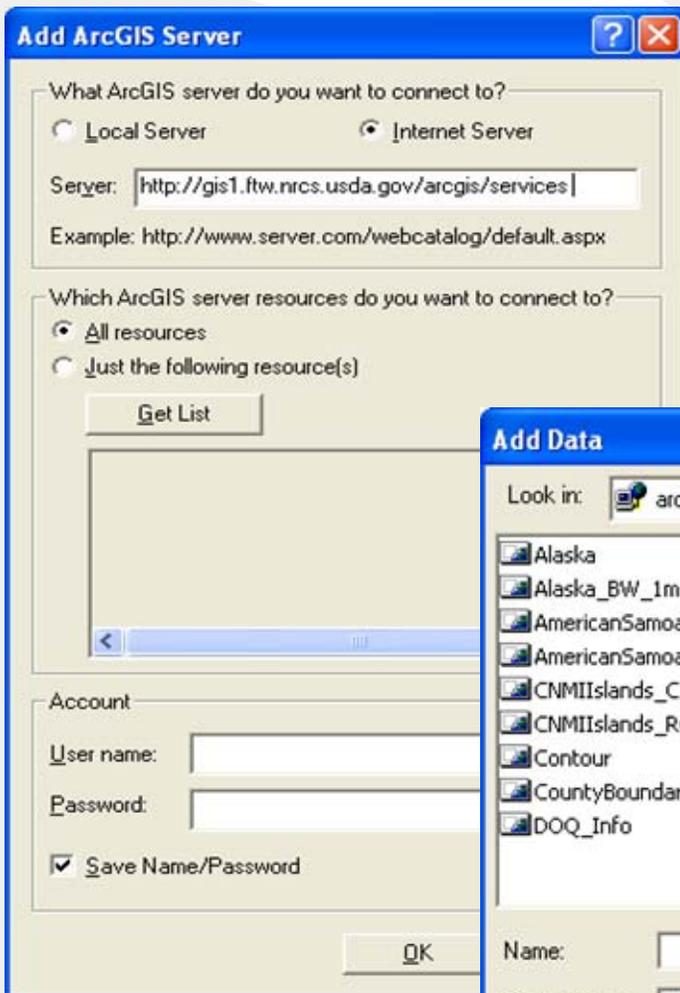
Version 1.4



NCGC Integrated Geospatial Data and Imagery Web Services - Usage

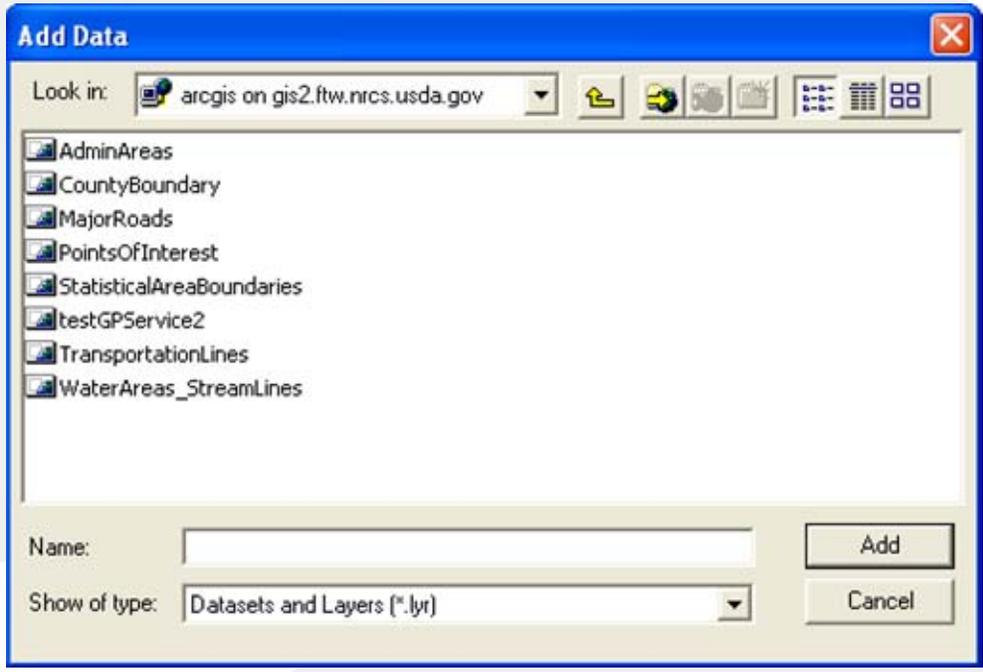
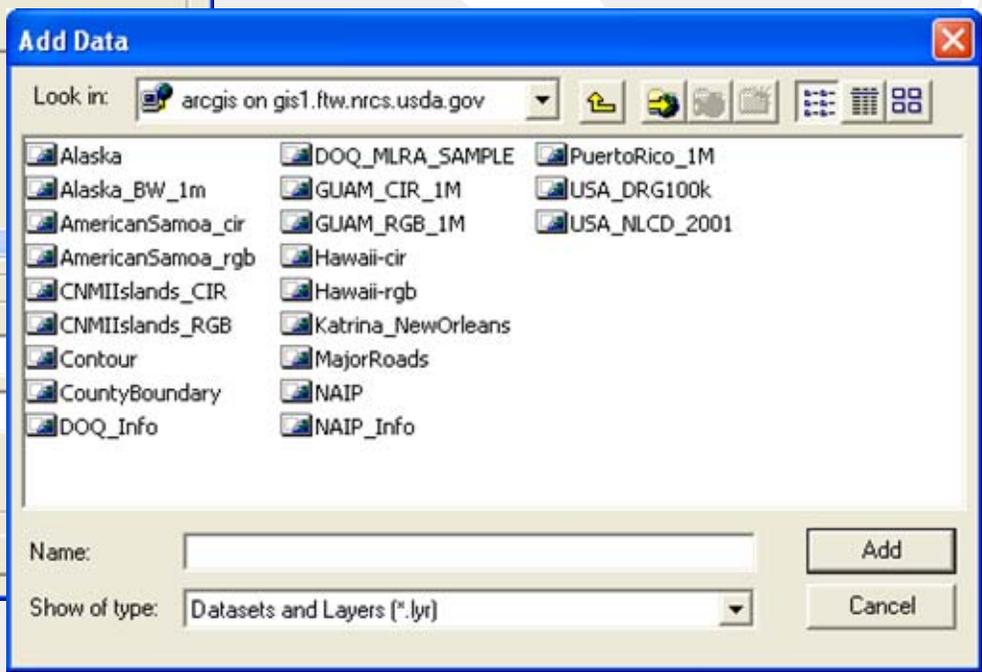


Accessing Integrated NCGC GIS Server Data and Web Services



GIS Server Addresses

Add GIS Server:
<http://gis1.ftw.nrcs.usda.gov/arcgis/services>
<http://gis2.ftw.nrcs.usda.gov/arcgis/services>



Accessing NCGC Integrated Geospatial Image Services using Image Server Plug-in

Image Server using ArcMap Plug-in

Imageserver1.ftw.nrcs.usda.gov:10010

Note: Requires ArcMAP Image Server Plug-in (9.1 or 9.2)

The screenshot displays the ArcMap interface with three overlapping dialog boxes. The 'Add Image Service' dialog is in the background, showing a list of services with 'AK_DRG_Hillshade' selected. The main map window in the middle shows a satellite image of a coastline with a scale of 1:3,515 and a layer named 'Hawaii_rgb'. The 'Export Image Properties' dialog is in the foreground, showing the current view extent and export parameters.

Add Image Service Dialog:

Name	Geographic...	Pixel_Source	Pixel_Unit	C
AK_BW1m_Public				R
AK_DRG_Hillshade				R
Alaska_RGB_AllSourcesCo...	Alaska, USA	Mixed	True Color	R
AmericanSamoa_cir	The Territory ...	Quickbird	False Color	R
AmericanSamoa_rgb	The Territory ...	Quickbird	True Color	R
CNMIIland_CIR	Commonwealt...	Quickbird	False Color	R

Export Image Properties Dialog:

Set the extent to:

Extents:

Left: 604681.764	Top: 2364802.736	Right: 605047.287
Bottom: 2364610.209		

Width: 365.523 Height: 192.527
Columns: 393 Rows: 207
Ground Pixel Size X: .9301 Ground Pixel Size Y: .9301
Format: TIFF-No Compression Tile Size: None
Compression Quality: 0 Approx. MB: 0.244
File Name: C:\Documents and Settings\Art.Ullman\Application Data\ESRI\Image Server\Untitled.t

Accessing NCGC Integrated Geospatial Web Services Exporting Imagery using Image Server Plug-in

Imagery can be exported from Image Server by right-clicking the imagery layer and selecting Export data...

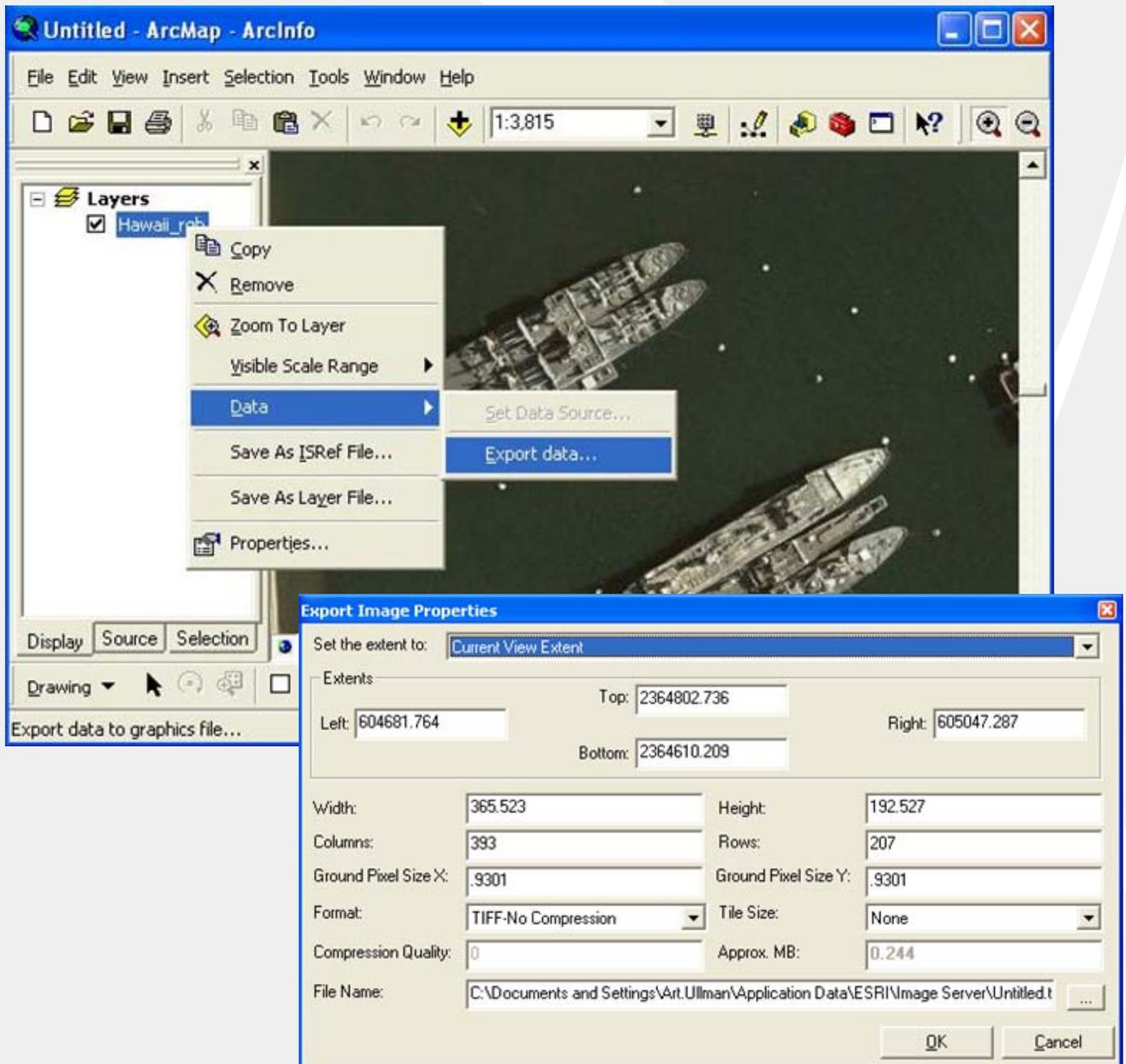


Image Server will export a TIF with a world file for currently selected AOI.

Accessing NCGC Geospatial Integrated Data Service Portal

Web Browser Access

Web Portal / Browser Access:
<http://wms.ftw.nrcs.usda.gov>

The screenshot shows the NCGC Geospatial Integrated Data Service Portal in Microsoft Internet Explorer. The browser title is "SCA GDW Web Map Services - Microsoft Internet Explorer". The address bar shows the URL <http://wms.ftw.nrcs.usda.gov/>. The page header features the NRCs logo and the text "United States Department of Agriculture Natural Resources Conservation Service National Cartography and Geospatial Center". A navigation menu includes links for "NCGC Home", "About Us", "News", "Programs", "Projects", "Technical Resources", and "Products & Services".

The main content area is titled "SCA GDW Web Map Services" and contains the following text:

With ArcGIS version 9 or higher, you can [connect](#) to national ArcIMS [map services](#) for any data set in the SCA Geospatial Data Warehouse (GDW).

NCGC GDW Web Map Services

The ArcIMS services are hosted at wms.ftw.nrcs.usda.gov. You can browse the provided interactive website of the map services.

Image Services — Using ESRI ArcGIS Image Server and ArcGIS Server, NRCs manages various imageries and publishes imageries through web map services for Hawaii islands, Puerto Rico, Guam, Alaska and Northern Mariana Islands areas.

Digital Raster Graphic (DRG) Services — Image backdrops for navigation and cartographic references.

TeleAtlas Services — National scale base map information.

Base Services — Additional base map information from USDA and other federal sources.

Contour, Hillshade and NED Services — Contour data for UTM zone 10 to UTM zone 19, Hillshade and 30 meter NED data for continental USA.

The left sidebar contains a search box with "NCGC" entered and a "GO" button. Below the search box are several categories of services:

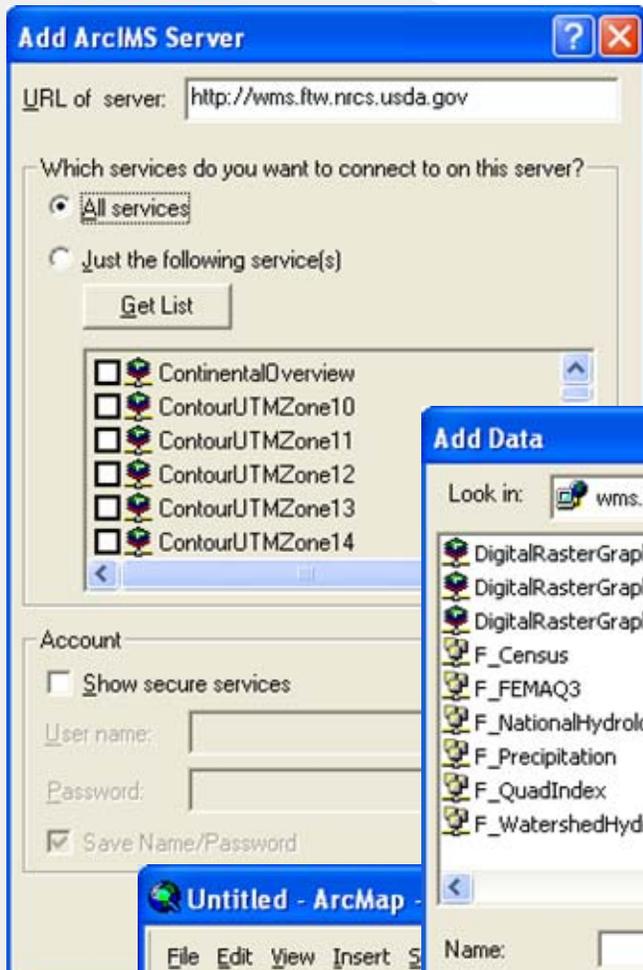
- Image Services**
 - American Samoa
 - Hawaiian Islands
 - GUAM
 - Puerto Rico
 - Alaska
 - Northern Mariana Islands
 - National Land Cover Dataset
 - Katrina New Orleans
- Imagery-Derived Product**
 - Contour
- Map Services**
 - Base
 - DRG
 - Contour/Hillshade/NED30
 - TeleAtlas
 - ITC
 - USDA Office / Service Center
 - NAIP
 - MDOQ
 - NRCs Imagery Tracker

The right sidebar contains a search interface with the following steps:

- Type place name & press Find:
 FIND
or draw search area :
- Choose content type:
 ▼
Choose content theme:
 ▼
Optional Keyword (e.g., river):
- START SEARCH**

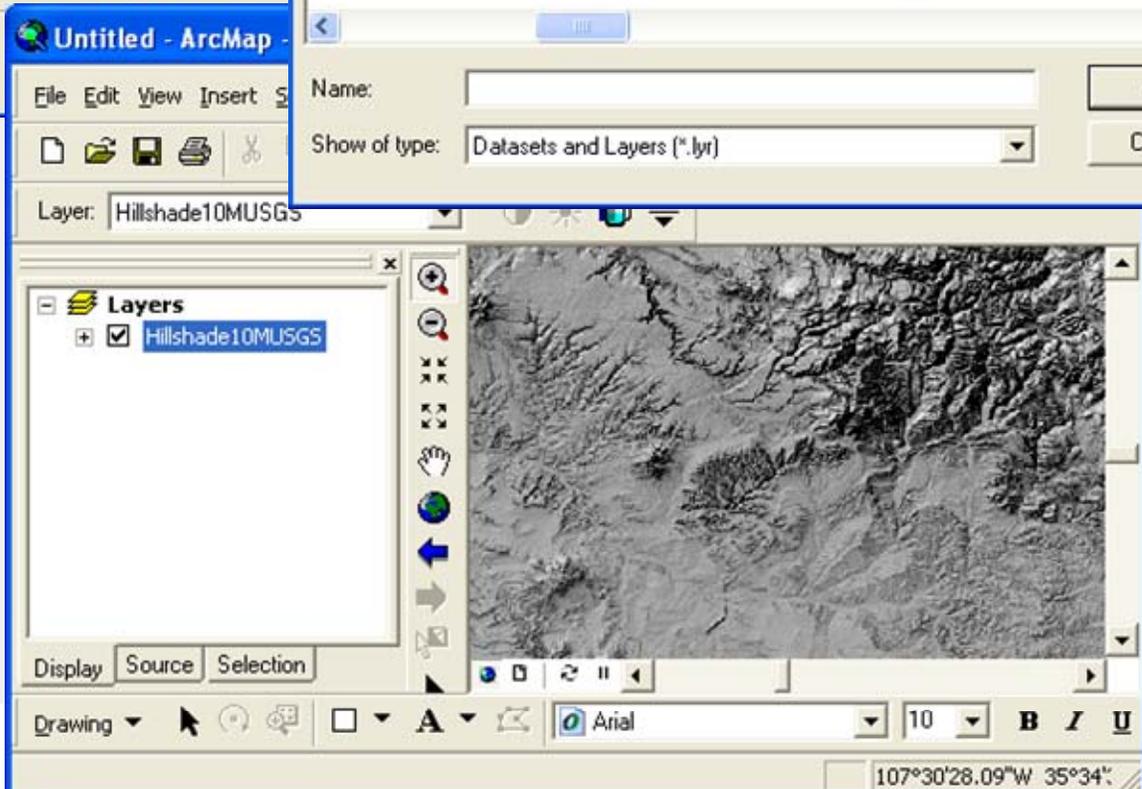
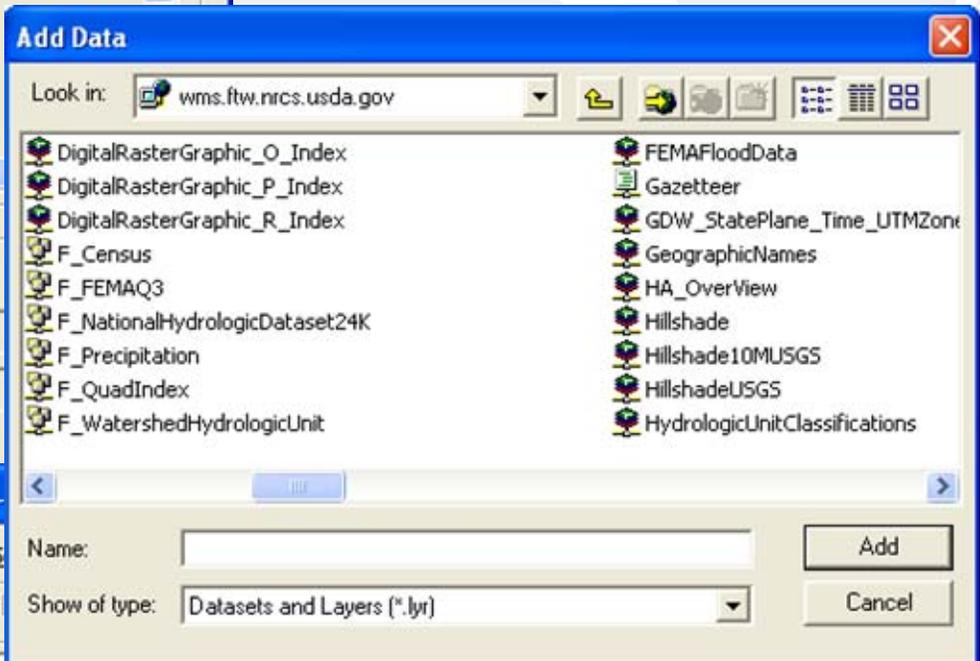
The bottom of the browser window shows a "Trusted sites" icon.

Accessing NCGC Integrated ArcIMS Data and Web Services



ArcIMS Access

Add ArcIMS Server:
`http://wms.ftw.nrcs.usda.gov`



Accessing Integrated OGC WMS Data and Web Services for ArcMap 9.x

WMS URLs provided on Portal

Web Portal / Browser Access:
<http://wms.ftw.nrcs.usda.gov>

The Web Portal Lists URLs for all Geospatial Data OGC WMS Services from NCGC

SCA GDW Web Map Services - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://wms.ftw.nrcs.usda.gov/> Go Links

United States Department of Agriculture
NRCNS Natural Resources Conservation Service
National Cartography and Geospatial Center

NCGC Home | About Us | News | Programs | Projects | Technical Resources | Products & Services | Partnerships | Contact Us

Search
NCGC
Enter Keywords GO

Teleatlas Web Map Services

TeleAtlas Web Map Services are based on national feature layers in the GDW Teleatlas database. These services can be used for onscreen display of reference data. You can [add the connection](#) and individual services yourself or download the following sample ArcGIS map documents. Each map document contains the services and layers listed in the following table setup for a named extent. It is recommended that you tailor the set of services and initial display settings to suit your purposes.

For users who use ESRI ArcGIS Desktop, you have access to all the map server:
<http://gis2.ftw.nrcs.usda.gov/arcgis/services>

Service Website	Service Metadata
Land Marks	Recreation Areas, Retail, Terminal, Institution, Major Military Installation, Hospital, Amusement Golf Course, Cemetary etc.
AdminAreas	State, county, civil divisions(MCD), and postal c
StatisticalAreaBoundaries	Tract, blockgroup, block, and core-based statis boundaries

OGC WMS Access:
<http://gis2.ftw.nrcs.usda.gov/arcgis/services/PointOfInterest/MapServer/W>

OGC WMS Access:
<http://gis2.ftw.nrcs.usda.gov/arcgis/services/AdminAreas/MapServer/WMS>

1 Type place name & press Find:
or draw search area []:
2 Choose content type:
Live Data and Maps
Choose content theme:
<All Content Themes>
Optional Keyword (e.g., river):
3 START SEARCH

<http://wms.ftw.nrcs.usda.gov/metadataexplorer/openMaporMetadata.jsp?goToMode=details&serviceName=LandMarks> Trusted sites

Accessing Integrated OGC WMS Data and Web Services for ArcMap 8.3

ArcMAP 8.3 user need to install a special plug-in in order to access OGC WMS Services. This plugin can be found at the following URL:

<http://www.esri.com/software/standards/ogc-download.html>

A list of WMS Service URLs can be found on the NCGC Geospatial Web Portal (<http://wms.ftw.nrcs.usda.gov>)

The following steps explain how to add an OGC WMS Service to ArcMAP 8.3 once the plug-in has been installed. The 1M NAIP data is used in this example:

1. In ArcGIS 8.3, Using the Add Data Button, Select the Add WMS Server Button and add the following URL:

<http://gis1.ftw.nrcs.usda.gov/arcgis/services/NAIP/MapServer/WMServer>

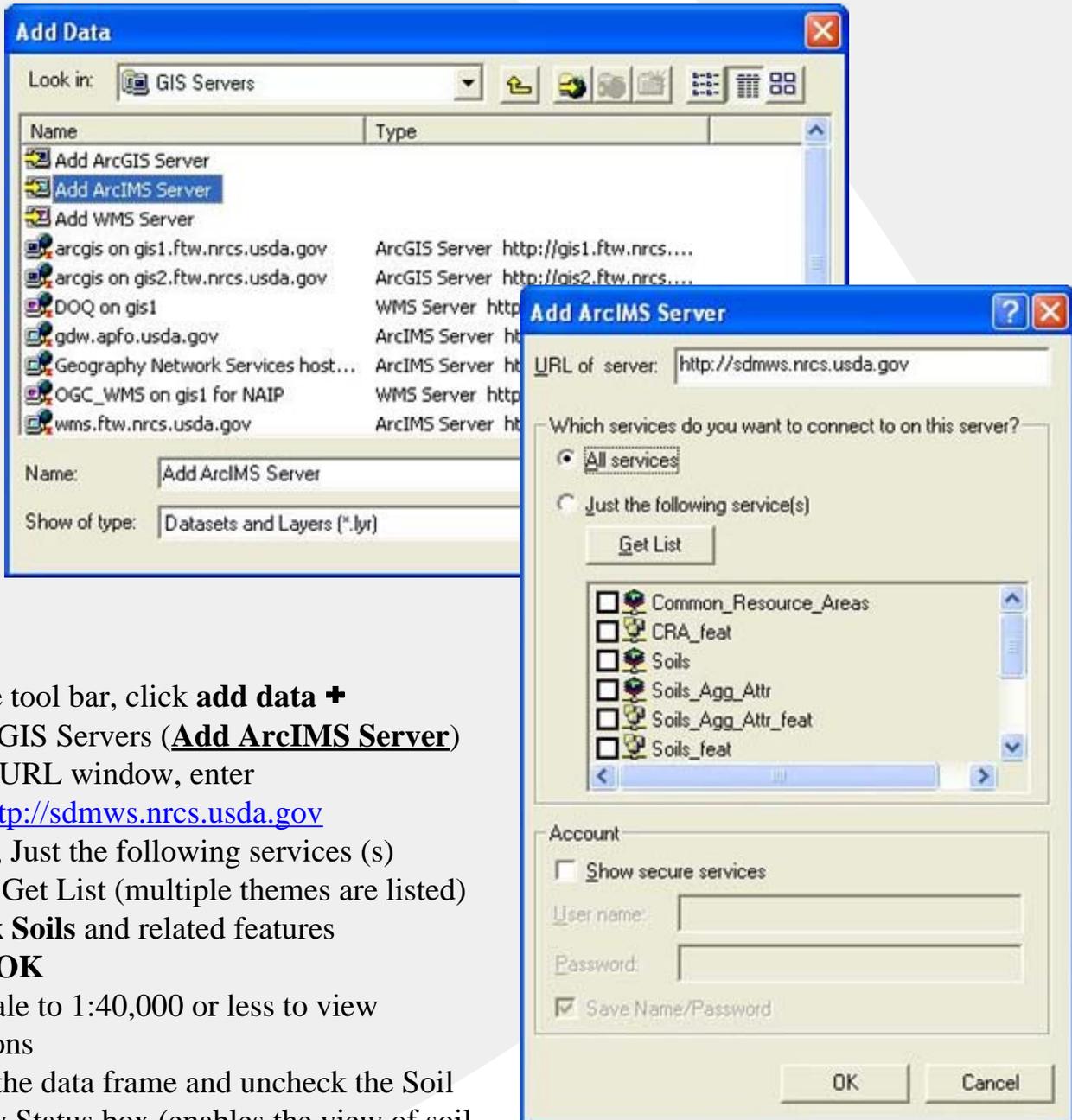
2. Select the "Get Layers" button (this will load all UTM zones of NAIP) and hit "OK".

3. You should see a layer in your "Add Data" called "OGC_WMS on gis1". Select this layer and select "OGC:WMS" button. At this point, you should see the 1M NAIP for the US.

Accessing NCGC Integrated Geospatial Web Services

Accessing Soils Data

Soils Data can be added to ArcMAP using Web Services



On the tool bar, click **add data** +
Go to GIS Servers (**Add ArcIMS Server**)
In the URL window, enter
<http://sdmws.nrcs.usda.gov>
Select, Just the following services (s)
Click, Get List (multiple themes are listed)
Check Soils and related features
Click **OK**
Set scale to 1:40,000 or less to view polygons
Open the data frame and uncheck the Soil Survey Status box (enables the view of soil polygons without the brown background)