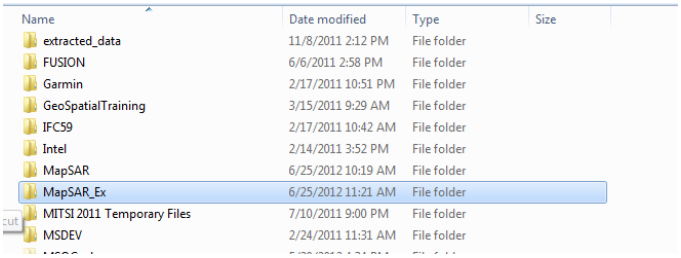
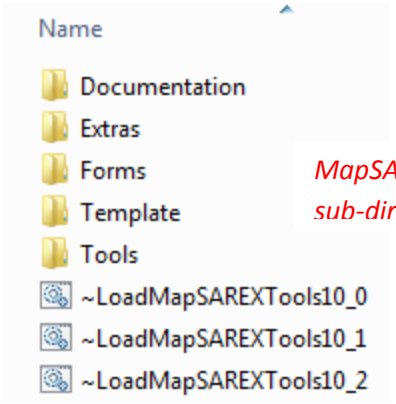
First time setup

1. Unzip MapSAR_Ex.zip to your root directory (C:\). When the fill unzips you should have a folder titled C:\MapSAR_Ex





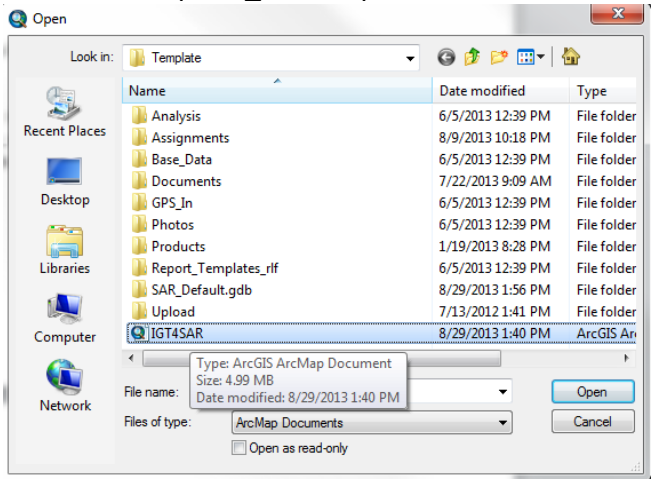
MapSAR_Ex sub-directories

2. Open the C:\MapSAR_Ex\Tools folder
    a. Depending on the version of ArcGIS you have (10.0, 10.1 or 10.2) you will need to select the appropriate ~LoadMapSAREXTools10_x.bat file to run.
    b. If you're running Windows 7, right-click the ~LoadMapSAREXTools10_x.bat batch file and select Run as administrator. For Windows XP users, simply double-click ~LoadMapSAREXTools10_x.bat.
    c. Executing this bat file will do the following:
        i. Copy ESRI Add-Ins to the default Add-Ins folder (ArcGIS\Desktop10.x\bin\Addins). The following Add-Ins are included: Attribute Assistant, ConstructWithBuffer, Get_Map_Point_Addin_Tool, GPX, Search_Editor and MapSAREX_Config
        ii. Copy the SAR_Toolbox to the ArcGIS System Toolbox folder (ArcGIS\Desktop10.2\ArcToolbox\Toolboxes).
        iii. Create a Config folder for the Attributes Assistant if it does not already exist
        iv. Copy the Attributes Assistant config xml file (aaloaded.config) to the folder create in ii and rename it to "loaded.config"
        v. Register MeasureAngle.dll with Windows. This adds a tool for dynamic measurement of distance and angle in ArcGIS.
        vi. Installs the geomag Python library required for to calculate magnetic declination.

3. Congratulations you have just installed IGT4SAR. Now let's verify the template has installed properly.

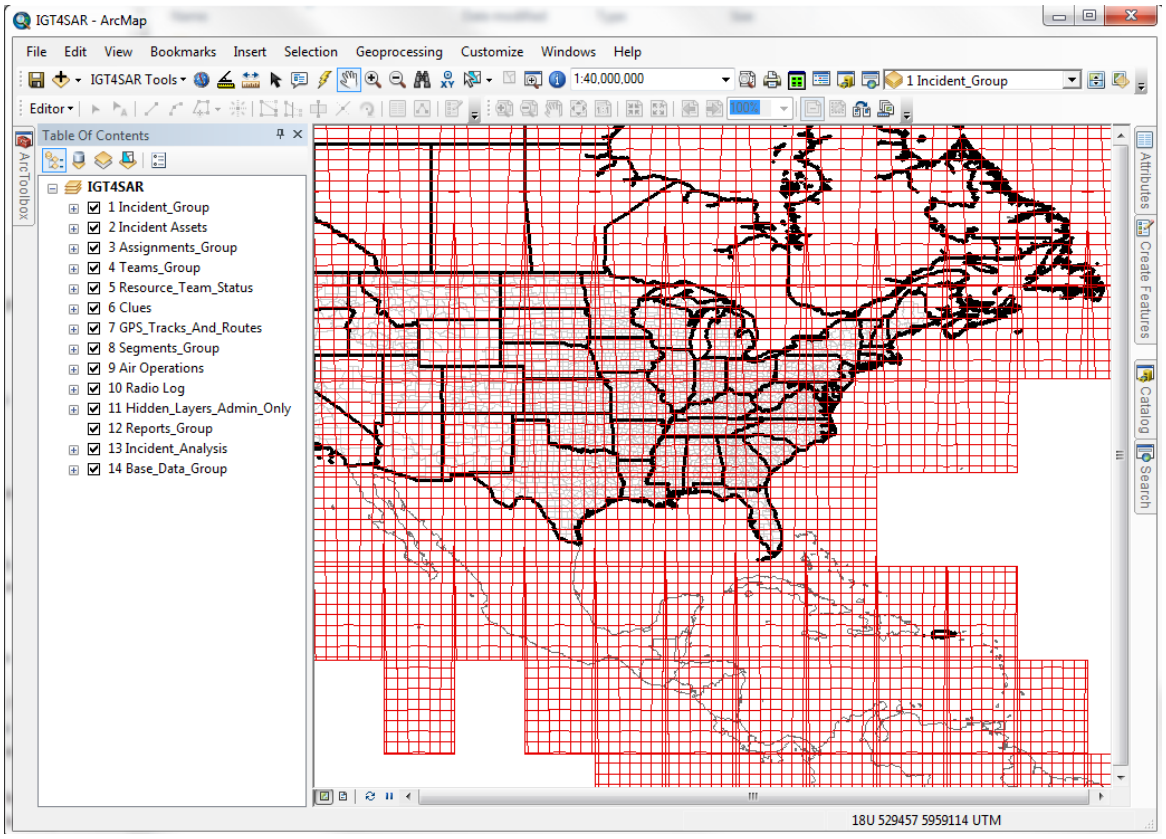
4. We are going to open the main IGT4SAR template to check the add-ins and toolbars have loaded properly. Any changes you make in this template will affect any New Incident you create. You would not normally edit this file.
    a. Open ArcMap (several options for starting ArcMAP, one method shown below.)
    b. At the welcome screen select "Browse for more" navigate to the C:\MapSAR_Ex\Template
    OR

Select File > Open and navigate to the C:\MapSAR_Ex\Template

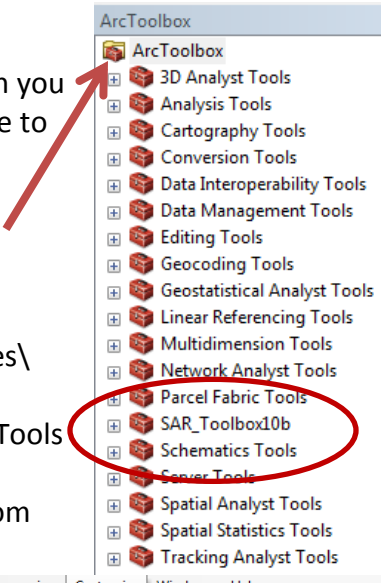


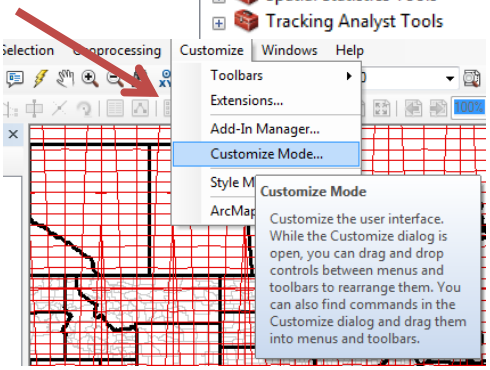
c. Select IGT4SAR.mxd

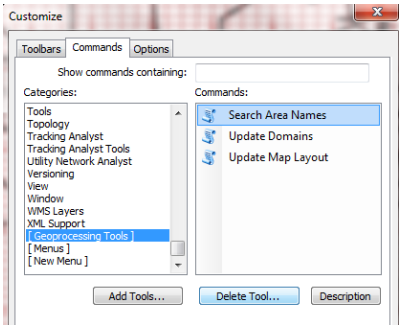
5. When IGT4SAR starts you should have a screen that looks similar to the following



6. There are couple of key items to look at to make sure you have IGT4SAR configured correctly
    a. Verify the SAR_Toolbox10b is in the list of ArcToolboxes. If it does not appear in the list than you will need to add it manually. You should only have to do this once in the main IGT4SAR Template.
    b. If the SAR_Toolbox10b is NOT present than
        i. Right click on ArcToolbox and select Add Toolbox
        ii. Navigate to the "Program File" \ ArcGIS\Desktop10.2\ArcToolbox\Toolboxes\
        iii. Select "SAR_Toolbox100.tbx" from the list
        iv. You will also need to correct the IGT4SAR Tools on the IGT4SAR Toolbar and is done by selecting ***Customize > Customize Mode*** from the Top Toolbar in ArcMap
        v. Select the ***Commands*** tab and under ***Categories*** scroll down to ***[Geoprocessing Tools]***.
        vi. Delete the three tools listed under Commands
        vii. Now link to the correct tools by selecting ***Add Tools*** and navigating Toolboxes \ System Toolboxes \ SAR_Toolbox100.tbx \ UpdateParameters and select the three tools listed there.
        viii. Use these three tools to replace the three that appear in the dropdown list in IGT4SAR Tools on the IGT4SAR toolbar.
        ix. Exit ***Customize Mode***
        x. Save IGT4SAR.mxd and exit ArcMap







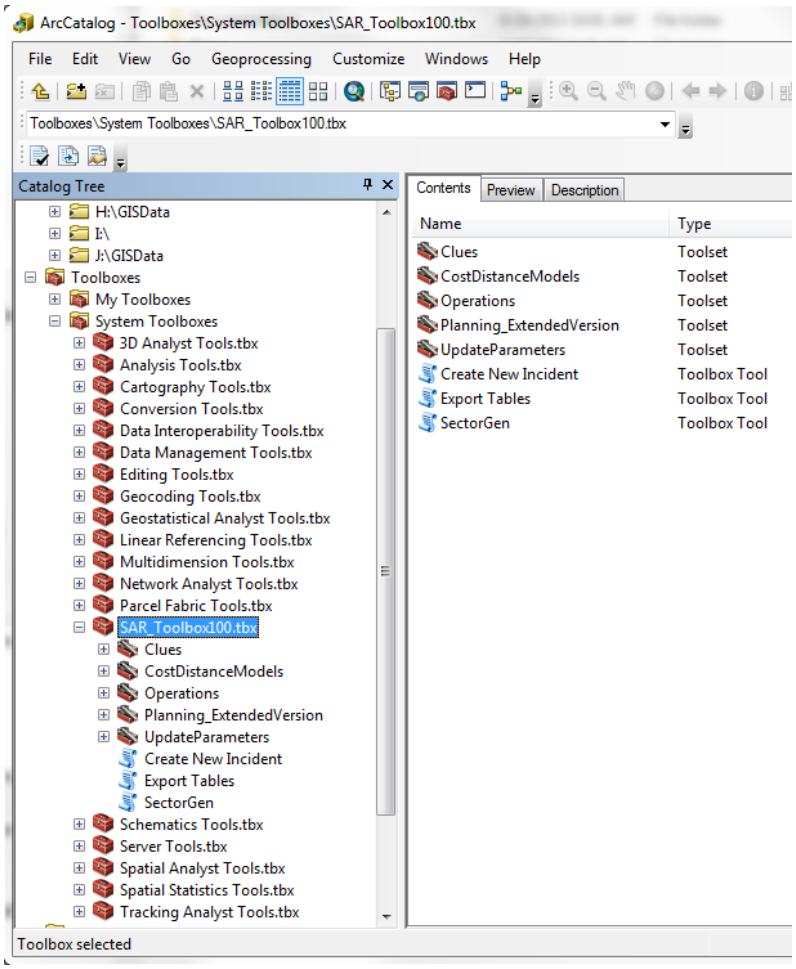
7. Once you have corrected the main IGT4SAR Template you should not have to change it again.
8. You are now ready to create a "New Incident" and begin entering data.

9. Open ***ArcCatalog*** and navigate to the ***System Toolboxes*** folder.

10. Open SAR_Toolbox100.tbx

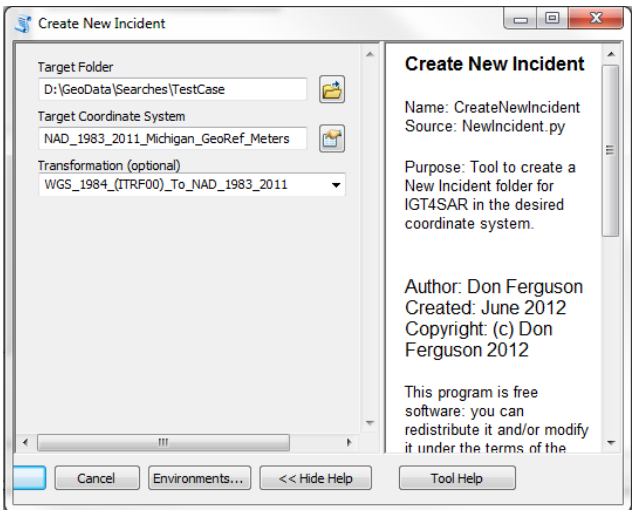
11. Double click on ***Create New Incident*** to initiate the tool.

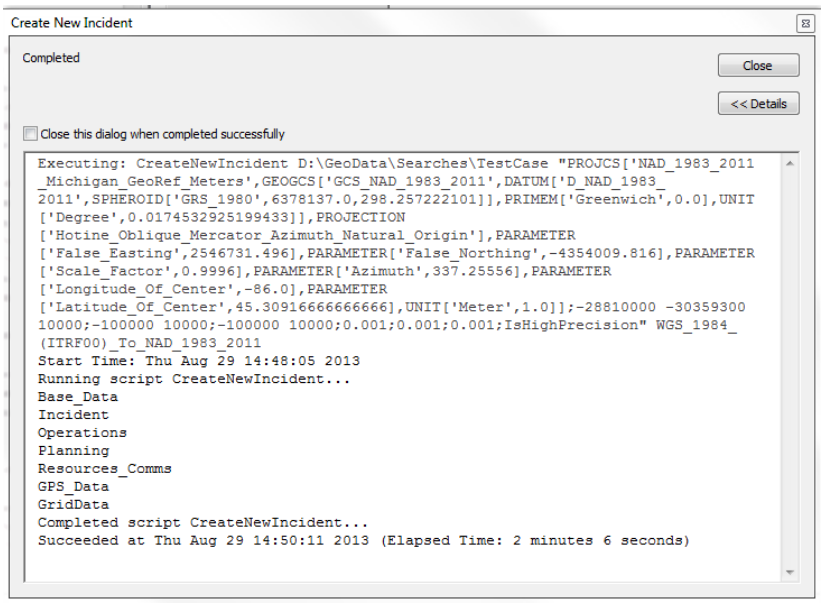
12. The tool will open and you will need to select a ***Target Folder*** to store the New Incident. The Target Folder can be located anywhere but should be a NEW folder as its contents will be replaced. Give the folder a descriptive name relative to the Incident.



13. Select the Target Coordinate System using the desired Map Projection. All map projections within ArcMap are available. If the selected map projection requires a coordinate Transformation a drop-down list will appear in the Transformation box and you will need to select the appropriate one (usually the one at the top of the list). If no list appears than a Transformation is not required.

14. Select ***OK*** to execute the tool. A progress window will appear providing you details of the progress in creating the new incident. You will be notified when the tool is finished with a message of "Completed script CreateNewIncident…"

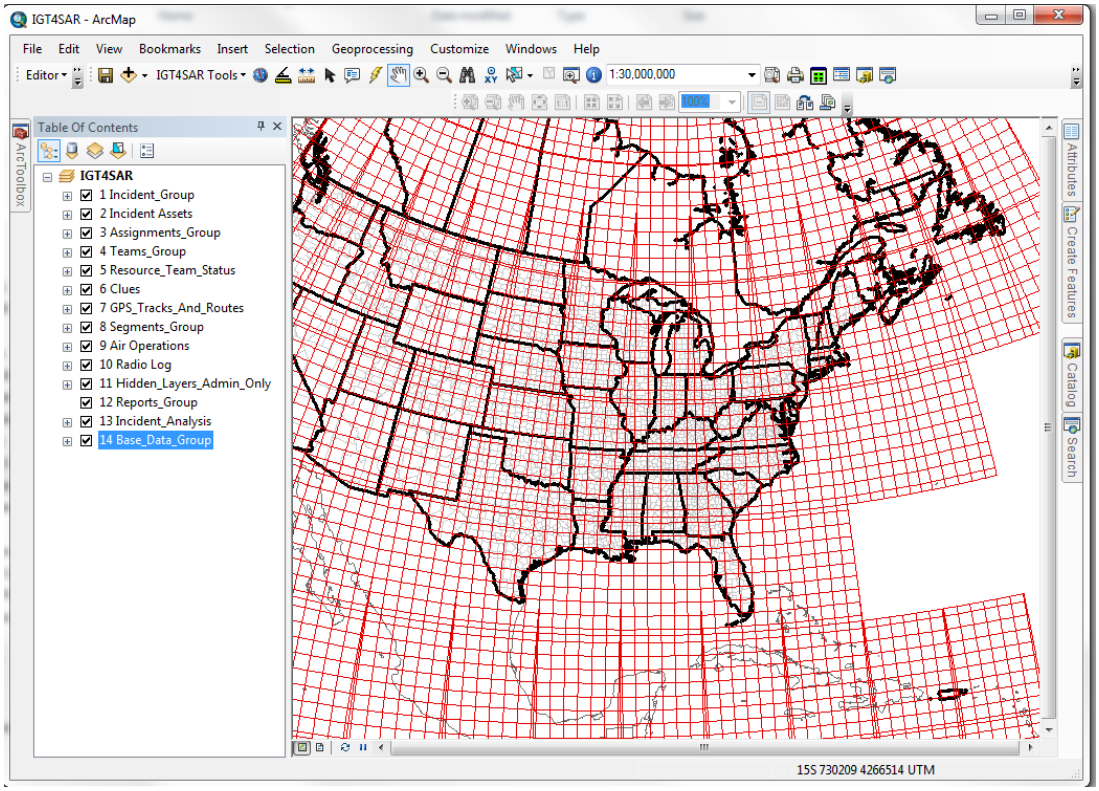




15. Click close.

16. Exit ArcCatalog (if desired) and navigate to the folder where you created the new incident. Double click on the IGT4SAR.mxd file in the folder to start ArcMap.

17. You are now ready for data entry



Uninstall

1. To uninstall run the appropriate **~UninstallMapSAREXTools10_x.bat** from the C:\MapSAR_EX folder. Make sure to use the same version of the bat file as used for the install.
2. If you want to uninstall the geomag Python Library
    a. Click Start, Click Control Panel
        i. For Windows 7 – click on **Programs > Uninstall a Program**
        ii. For Windows XP – double click **Add or Remove Programs**
    b. Find "Python 2.7 geomao-0.9" in the list of installed programs
    c. Select **Uninstall** and follow the instructions