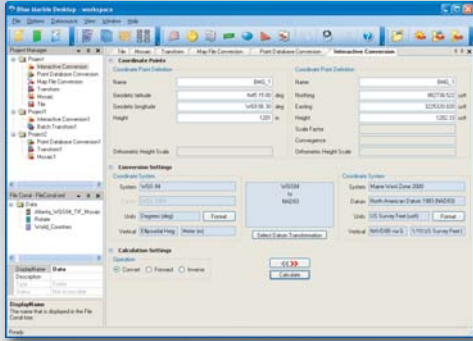


The Leading Coordinate Conversion Tool!

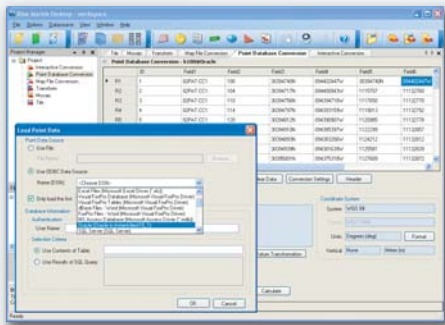
ENABLING GEOSPATIAL DATA MANAGEMENT ACROSS YOUR ORGANIZATION

**NOW**  
With Spatial  
Database Support



### EXPANDED DATABASE SUPPORT

Calculator now supports all ODBC databases permitting reading and writing to MS Access, MS SQL Server, MySQL, Oracle, Postgres and more. ESRI Spatial database conversions are available through the ArcGIS Extension. The new Spatial Connect Module supports read/write of ESRI Geodatabase, ArcSDE, Personal and File Geodatabase, Oracle and PostGIS Spatial Databases.



### ADMIN TOOLS

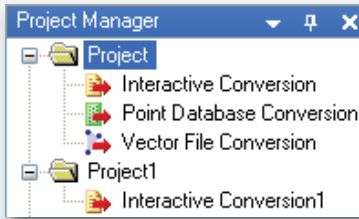
Lock down the data source for protection. workspaces ensure consistency and permit sending out pre-defined jobs. Geographic envelopes can be created as easily as drawing on a map file. The appropriate datum shifts can be defined for that area of the world. Use this tool in ArcGIS, too.

### NOW PART OF BLUE MARBLE DESKTOP WITH NEW ENTERPRISE TOOLS TO ENHANCE GEOSPATIAL PROJECTS

- Uses GeoCalc.XML, the largest and most comprehensive data source available
- New security features:
  - Ability to password-protect data source editing
  - Data source signature to inform user of changes to definitions
  - Segregated definitions fit Blue Marble stock versus user defined
- Direct support of the OGP WRS Registry allows enterprises to update their information when they need to, online in real time
- FlexNET licensing for WAN and license check out, dongle licenses too
- Read and write to Oracle, MySQL, SQL Server, Access and more
- Admin tools to set jobs and workspaces, managing work across your enterprise uniformly
- ArcGIS extension introducing Blue Marble geodetic tools directly in the ArcMap environment

### SELECT YOUR DATUM TRANSFORMATION - NOT JUST WGS84

Geographic Calculator now gives the user the ability to select the datum shift for your transformations. You don't have to run all transformations through WGS84. Most programs require that transformations run through WGS84 as an intermediary. This can create inaccuracies in the results. With this feature, Calculator is more flexible and now more accurate across a variety of scenarios.

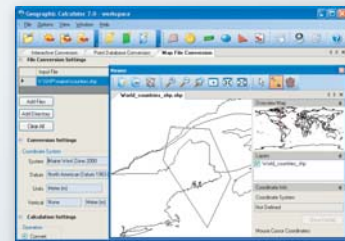


### VECTOR FILE CONVERSIONS

Convert individual map files or batch process an entire folder! The leading map and vector file formats are supported including the latest AutoCAD as well as DGN, KML, GML (simple features), XLS support and more. The enhanced vector file viewer includes more tools and info windows. Assign coordinates to a vector file to perform projection recovery to determine unknown projections on previously referenced data.

### PROJECT MANAGER

The new Project Manager panel introduces the concept of workspaces, projects and jobs. Switch back and forth between multiple conversion projects. Save off a workspace and send it to other users to use your settings.

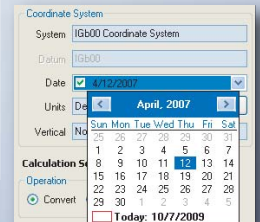


### THE MOST COMPREHENSIVE DATA SOURCE AVAILABLE!

- XML Based
- Over 3500 pre-defined projected coordinate systems
- Over 1200 datum shifts
- Over 400 horizontal datums
- Over 80 various unit definitions
- A dozen vertical datums (necessary for LIDAR transformations)
- Full matches to ESRI, MapInfo, Autodesk and many more
- Define your own coordinate systems!

### HORIZONTAL TIME DEPENDENT POSITIONING

Calculator now supports Horizontal Time Dependent Positioning (HTDP), which provides a means to predict and adjust for data transformations related to movements of the Earth's crust over time.



## BLUE MARBLE GEOGRAPHICS

WHERE GIS DATA CONVERSION SOLUTIONS ARE BORN

397 WATER STREET, SUITE 100, GARDINER, MAINE 04345 USA 800.616.2725 FAX: 207.582.7001  
LATITUDE 44 13' 47.53" N LONGITUDE 69 46' 29.11" W

WWW.BLUEMARBLEGEO.COM

## FEATURES

### NEW AND ENHANCED FEATURES

- Full support for HTDP Reference Frames and coordinate reference systems
- Enhanced support for Alberta Township System version 4.1.
- Customized default coordinate system selection.
- Updated support for DGN direct coordinate system conversion.
- Now using EPSG database v7.1
- New Polar Stereographic variant B, and Popular Visualization Pseudo Mercator projections.
- Added the ability to specify the number of header rows for Excel data in Point Database Conversion jobs
- The new Spatial Connect Module supports read/write of ArcSDE/PDB, Oracle and PostGIS spatial
- Projection Recovery for vector files to determine unknown projections on previously referenced data
- New arbitrary scale and translation in Point Database Conversion Jobs.
- Ability to choose datum transformation method other than WGS84
- Smart workspace tools allow users to save jobs, projects and workspaces
- Direct tie-in to the OGP's online EPSG web Registry Service
- Administrative Tools for locking data source access privileges
- ESRI Spatial database conversions in the ArcGIS Extension for SDE, File Geodatabase, and Personal Geodatabase

## WHAT'S INSIDE

### DATUM TRANSFORMATION METHODS

#### HORIZONTAL

- Best Fit using the Geographic Calculator
- Canadian National Transformation (NTv2)
- DMA Multiple Regression Equations
- Molodensky
- NGS HARN
- NGS NADCON
- Ordnance Survey Great Britain - OSTN02
- Seven Parameter Bursa/Wolfe
- Ten Parameter Molodensky-Badekas

#### VERTICAL

- Geoid Models
- NGS VERTCON

## ARCGIS EXTENSION

- Switch between geodetic definitions in the Blue Marble data source and those in ArcGIS
- Utilize your GeoCalc custom definitions in ArcGIS
- Compare data conversion results from ArcGIS and Blue Marble right in the Arc interface.
- Convert any feature class supported by ArcGIS with the Blue Marble GeoCalc datasource

## DATA FILE FORMATS

### POINT DATABASE FORMATS

- ODBC databases including MS SQL, MS Access, Oracle, MySQL, Postgres
- dBase
- Excel XLS
- ASCII text (including custom text file formats- UKOOA, for example)
- SEGP184, SEGP190
- Write to AutoCAD DWG/DXF
- MS Access
- Shell Processing Support

### INPUT VECTOR FILE FORMATS

- AutoCAD support through AutoCAD 2007/2008 (\*.dwg, \*.dxf)
- Blue Marble Layers (\*.bml)
- Digital Line Graph (\*.dlg)
- ESRI ArcInfo Export (\*.e00)
- ESRI ArcInfo Generate (\*.gen)
- ESRI Shapefile (\*.shp)
- GML Simple Features - Ver 3.1.1 (\*.gml)
- Google Keyhole Markup Language (\*.kml)
- LIDAR Data Exchange - Ver 1.0 & 1.1 (\*.las)
- MapInfo Import (\*.mif)
- MapInfo Table (\*.tab)
- Microstation Design (\*.dgn)
- S-57 (\*.000)
- Spatial Data Transfer Standard (\*.catd.ddf)
- TIGER/Line (\*.rtl)
- Velocity File (\*.txt)

### OUTPUT VECTOR FILE FORMATS

- AutoCAD write support through AutoCAD 2007 (\*.dwg, \*.dxf)
- ESRI ArcInfo Export (\*.e00)
- ESRI ArcInfo Generate (\*.gen)
- ESRI Shapefile (\*.shp)
- GML Simple Features - Ver 3.1.1 (\*.gml)
- Google Keyhole Markup Language (\*.kml)
- LIDAR Data Exchange - Ver 1.0 & 1.1 (\*.las)
- MapInfo Import (\*.mif)
- MapInfo Table (\*.tab)
- Microstation Design (\*.dgn)
- Velocity File (\*.txt)

### SPATIAL DATABASES

- The Spatial Connect Module supports:
- ESRI Geodatabase
  - ArcSDE, Personal and File Geodatabase
  - Oracle
  - PostGIS

## MAP PROJECTIONS

- Aitoff
- Alaska State Plane 27
- Albers Equal-Area Conic
- Azimuthal Equal Area
- Azimuthal Equal Area (Polar Aspect)
- Azimuthal Equidistant
- Azimuthal Equidistant (Polar Aspect)
- Behrmann
- Belgium 72
- Bipolar Oblique Conic Conformal
- Bonne
- Cassini
- Craster Parabolic
- Danish System 34
- Danish System 34 (1999)
- Double Stereographic
- Eckert I, Eckert II, Eckert III
- Eckert IV, Eckert V, Eckert VI
- EOJ (Egysegas Orszagos Vetulet)
- Equal-Area Cylindrical
- Equidistant Conic
- Equidistant Cylindrical
- European Stereographic
- Fuller (Dymaxion)
- Gall Stereographic
- Gnomonic
- Goode Homolosine
- Guam State Plane 27
- Hammer Aitoff
- HSO/RSO (Deprecated)
- IMW Polyconic
- Krovak
- Laborde
- Lambert Conformal Conic (1 parallel)
- Lambert Conformal Conic (2 parallel)
- Lambert Conformal Conic Extended
- Lambert State Plane 27
- Loximuthal
- McBryde-Thomas Flat-Polar Quartic
- Mercator
- Military Grid Reference System (Deprecated)
- Miller Cylindrical
- Mollweide
- New Zealand Map Grid
- Oblique Mercator Azimuth
- Oblique Mercator Two Point
- Orthographic
- Perspective Conic
- Polar Stereographic
- Polar Stereographic (Variant C)
- Polyconic
- Popular Visualisation Pseudo Mercator
- Quartic Authalic
- Robinson
- Sinusoidal
- Space Oblique Mercator
- Stereographic
- Stereographic 70
- Swiss Oblique Mercator
- Tilted Perspective
- Times
- Transverse Mercator (Gauss-Kruger)
- Transverse Mercator Extended
- Transverse Mercator Snyder
- Transverse Mercator South Oriented
- Transverse Mercator State Plane 27
- Two-Point Fit
- Universal Transverse Mercator
- V and H
- Van der Grinten
- Van der Grinten IV
- Vertical Perspective
- Winkel I, Winkel II, Winkel Tripel



# BLUE MARBLE GEOGRAPHICS

WHERE GIS DATA CONVERSION SOLUTIONS ARE BORN

397 WATER STREET, SUITE 100, GARDINER, MAINE 04345 USA 800.616.2725 FAX: 207.582.7001

LATITUDE 44 13' 47.53" N LONGITUDE 69 46' 29.11" W

WWW.BLUEMARBLEGEO.COM