



# Integrated<sup>®</sup> Geodetics Toolkit

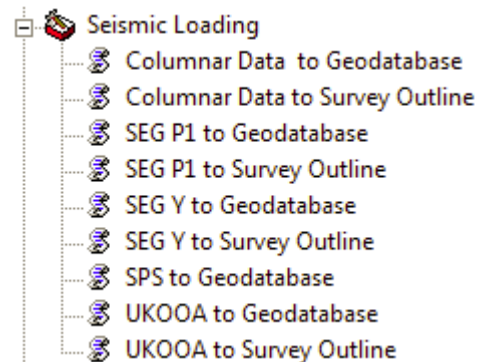
## For Seismic Survey Data

### Streamlined Data Processing Workflow

Integrated<sup>®</sup> Geodetics Toolkit is a toolbox for ArcGIS containing 30+ python script and Model Builder tools that provide users with the ability to quickly read and load seismic navigation and well survey information into a common ESRI GIS format for visualization and analysis.

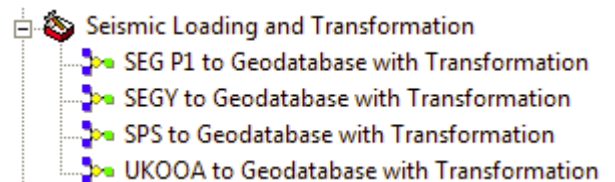
### Seismic Survey Toolsets

**Seismic Loading** tools load SEG P1, SEG Y, SPS, UKOOA and columnar (fixed-width or delimited) text formatted surveys into point feature classes with optional user-specified line and/or point decimation and point-to-point azimuth calculations, including Line Azimuth, Azimuth Change, Bend, Interval, Seismic Point Gap, Nominal Interval, Seismic Point Orientation, Height/Depth Change and Seismic Point Number Interval.



Header information from the input files is also extracted to its own table. In addition, there are tools for creating survey outline polygon feature classes using either the grid or latitude/longitude coordinates and either a convex or concave algorithm.

**Seismic Loading and Transformation** tools are model tools that combine all the functionality of the Seismic Loading tools with the ability to re-project/transform data using standard EPSG projections.

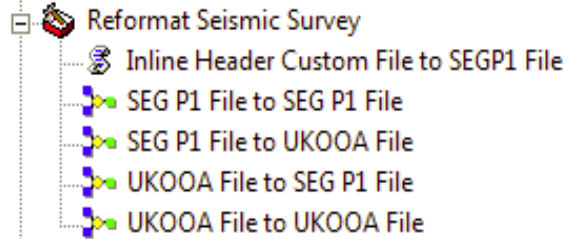


There is also a Utilities toolset contains a tool for taking loaded seismic point information and creating a line feature class.

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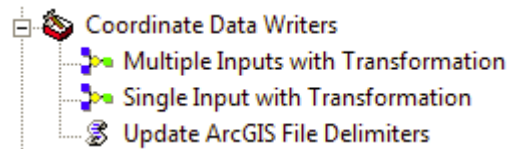
**Reformat Seismic Survey** tools read standard and non-standard UKOOA and SEG P1 seismic files and convert them to a standard file. At the same time, the survey spatial reference can be changed, and if a file has a projected coordinate system and either the grid or latitude/longitude coordinates are missing, they will automatically be calculated during conversion.



The SEG P1 tools also allow the specification of implied decimal places. Metadata is added to the beginning of new files to document their conversion:

```
H *****IMPORTANT NOTE*****
THIS SEG P1 FILE CONVERTED FROM UKOOA USING THE FOLLOWING PARAMETERS
CONVERTED ON: Fri Aug 06 20:36:50 2010 UTC
INPUT FILE: Sample_5680_ProcSP_UKOOA.p1
INPUT COORD SYS: WGS_1984_UTM_Zone_23N
COORD SYS UNITS: Meter
OUTPUT COORD SYS: WGS_1984_UTM_Zone_23N
COORD SYS UNITS: Meter
OUTPUT IMPLIED DECIMALS: XY:0, Z:0
*****ORIGINAL SEG P1 HEADER FOLLOWS*****
```

**Coordinate Data Writers** convert XY coordinate data from/ to ASCII, Excel or dBase, ArcGIS table or feature class, using virtually any file delimiter.



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