# BREEZE 3DAnalyst

BREEZE 3DAnalyst can be purchased as a companion program to BREEZE AERMOD / ISC, or choose from one of our stand-alone packages:

- 3DAnalyst Results Featuring the post-processing utility for hourly $NO_2$ and $SO_2$ results from AERMOD
- 3DAnalyst Met Enhanced features and new functions to analyze complex meteorological datasets
- 3DAnalyst Bundle Explore the full power of 3DA: includes all the features of the Results & Met modules

BREEZE 3DAnalyst (3DA) is available for purchase in six different editions:

- AERMOD Standard (FREE)
- AERMOD Professional (Pro)
- AERMOD Pro Plus
- Results
- Met
- Bundle (Results + Met)

The Results, Met, and Bundle packages have the same features as the "3DA for AERMOD Pro Plus" edition but handle different file types.  Click on the "Compatible Files" tab to see what files 3DAnalyst can open.

| **Displays** | **3DA for AERMOD Standard** | **3DA for AERMOD Pro** | **3DA for AERMOD Pro Plus** |
|---|---|---|---|
| Intuitive "Ribbon bar" Navigation / Menu | NEW | NEW | NEW |
| Single or Multi Window Display Options | ✓ | ✓ | ✓ |
| Map View | ✓ | ✓ | ✓ |
| 3D View | | ✓ | ✓ |
| Cross Section View | | ✓ | ✓ |
| Results Table View with Threshold Highlighting / Sorting | | NEW | NEW |
| Time Series View | | ✓ | ✓ |
| Distribution View | | | NEW |
| Contribution View | | | NEW |

| **Display Enhancements** | **3DA Standard** | **3DA Pro** | **3DA Pro Plus** |
|---|---|---|---|
| Print and Print Preview | ✓ | ✓ | ✓ |
| Copy and Copy To | ✓ | ✓ | ✓ |
| Add Annotations to Map Display | | NEW | NEW |
| Polygon Manager | | NEW | NEW |
| 3D Templates | | NEW | NEW |
| Synchronize Times | | ✓ | ✓ |

| Base Maps | 3DA Standard | 3DA Pro | 3DA Pro Plus |
|---|:---:|:---:|:---:|
| Import Base Map Image Wizard | ✓ | ✓ | ✓ |
| Toggle Base Map Display On / Off | ✓ | ✓ | ✓ |
| Map Manager | ✓ | ✓ | ✓ |
| 3D Surface Color or Texture Maps | | ✓ | ✓ |
| 3D Atmospheres | | ✓ | ✓ |
| Drape Base Maps and Contours over Terrain Height Maps | | ✓ | ✓ |
| Download Base Maps from the Web | | ✓ | ✓ |
| Export Model Objects to DXF | | NEW | NEW |

| Plotting | 3DA Standard | 3DA Pro | 3DA Pro Plus |
|---|:---:|:---:|:---:|
| Hot Spot Analysis (High display and Info button) | ✓ | ✓ | ✓ |
| Multiple Gridding Methods (parallelized) | NEW | NEW | NEW |
| Internal Contour Plotting to Map View | ✓ | ✓ | ✓ |
| Post Analysis with Filtering | NEW | NEW | NEW |
| Internal Contour Plotting to 3D View | | ✓ | ✓ |
| Plot to Surfer® | | ✓ | ✓ |
| Plot to Google Earth™ | | ✓ | ✓ |
| Time Series Plotting in Google Earth™ | | NEW | NEW |
| Export to Shapefiles | | | ✓ |
| Plot to Scalable Vector Graphics | | | ✓ |

| Data Manipulation / Analysis | 3DA Standard | 3DA Pro | 3DA Pro Plus |
|---|:---:|:---:|:---:|
| Extract Block Averages | ✓ | ✓ | ✓ |
| Extract Rolling Averages | ✓ | ✓ | ✓ |
| Extract Percentiles | ✓ | ✓ | ✓ |
| Extract Highs | | ✓ | ✓ |
| Extract Thresholds | | ✓ | ✓ |
| Extract Exceedances | | ✓ | ✓ |
| Extract Daily Maxima | | NEW | NEW |
| NO2 & SO2 Post-Processing | | NEW | NEW |
| Data Transformation | | ✓ | ✓ |
| Radius of Influence (ROI) Tool | | NEW | NEW |
| Combine Multiple Post-Processed POST Files into a Single File | | | NEW |
| Merge Plot Files | | | ✓ |
| Merge Post Files | | | ✓ |
| Export Data to XYZC Format | | | ✓ |
| Export Data to VTK Format | | | ✓ |
| Export Data to XYZ Format | | | ✓ |
| Dynamic Inter-node Interpolation | | | NEW |

| Animation | 3DA Standard | 3DA Pro | 3DA Pro Plus |
|---|---|---|---|
| Map Animation | | | ✓ |
| 3D Animation | | | ✓ |
| Cross Section Animation | | | ✓ |
| Contribution Chart Animation | | | NEW |
| Distribution Chart Animation | | | NEW |
| Google Earth Contour Animation (over time) | | | NEW |

| Productivity Tools | 3DA Standard | 3DA Pro | 3DA Pro Plus |
|---|---|---|---|
| Polygon Manager | NEW | NEW | NEW |
| Ozone File Editor | | ✓ | ✓ |
| Coordinate Conversion Utility | | ✓ | ✓ |
| Geo Data Plotting | | ✓ | ✓ |
| Geo Data Exporting | | ✓ | ✓ |
| Transform Model Coordinates | | ✓ | ✓ |
| Data Flowchart | | | NEW |

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