

Aquatic Ecosystem Classification Version 3 (geodatabase format)

This is a brief outline of the files contained within each Aquatic Ecosystem Classification (AEC) GeoHub data package.

Collection of work unit folders, each containing the following:

File geodatabase (*.gdb; created using ArcGIS Pro v3.1.0) containing four feature classes:

- w00_Reach_SimpleGeometry_GeoHub (lines)
- w00_TemperatureInfluencing_LakeOutlets_GeoHub (points)
- w00_Waterbody (polygons)
- w00_Workunit_Boundary_SimpleGeometry (polygon)

Symbology layers for geodatabase feature classes (*.lyrx; created using ArcGIS Pro v3.1.0) These files store cartographic symbology for the geodatabase feature classes. The layer files are linked to their geodatabase data source using relative paths. Please keep the symbology layer folder and the geodatabase together in the same relative file system position to prevent broken data source links.

Reach lines: A variety of thematic line colour schemes, including line widths that increase as Strahler order increases to improve network visualization, and dashed line symbology for the thermal and stream class lines whose predicted stream temperatures have been flagged as being influenced by an upstream lake or pond.

Temperature influencing lake outlet points: These points allow you to assess the degree of influence upstream lakes or ponds might have on lake influenced reaches (i.e., dashed line), relative to their predicted stream temperature.

Waterbody polygons: These are the waterbodies containing AEC virtual connector reaches.

Work unit boundary polygon: This semi-transparent polygon can be placed between a basemap (e.g., satellite imagery) and other AEC layers to improve the colour contrast of their symbology, while still allowing useful landscape context to remain visible.

Basic symbology folder: This folder contains layer files that symbolize the reach lines with the same thematic colour schemes as the main layer files, but without the Strahler order dependent line widths or the lake influence flagging dashed lines.

User documentation

Please refer to the following documents for in-depth coverage of technical details, and how to use and interpret the AEC. Please use the links below to download them from GeoHub:

- [Aquatic Ecosystem Classification V3 - SRB TR69.pdf](#)
- [Interpreting and using the Aquatic Ecosystem Classification V3 - SRB TR70.pdf](#)