User workshop plan

Data required for executing BMI-enabled web service Topoflow components:

Time series data:

- precipitation (mm/hr) in plain text
- air temperature (deg_C) in plain text
- relative humidity (dimensionless) in plain text
- NOTE:
  - all the above time series information are available in IMLCZO data set through the geostream endpoint;
  - RAS can be used to align the IMLCZO data to the data required by the Topoflow.
- sample data: precipitation – June_20_67_rain_rates.txt

Spatial data:

- elevation file in GeoTIFF format
- flow direction file in GeoTIFF format
- slope file in GeoTIFF format
- aspect file in GeoTIFF format
- NOTE:
  - the spatial data can be stored in Clowder and annotated by SAS;
  - KDS could be used for searching the data in Clowder when it's ready;
  - RAS can be used to align the annotated data in Clowder to the data required by the Topoflow.
- sample data: DEM in Owl – Owl_DEM.tif

Scalar data:

- all the remaining variables required in the configuration files (e.g., water density, land surface albedo)
- users are required to provide there information