Useful Dialogs for comparing station and satellite data

Importing data

- Importing station data: File > Open from File (choose your station data Excel, csv, txt etc.)
- Importing satellite data: File > Import and Tidy NetCDF file (Choose your nc file)
- If multiple stations:
  - First import a station metadata file with lon, lat & station columns
  - File > Import and Tidy NetCDF file (Choose your nc file with area)
  - Options > Choose "Points" > Select lon/lat/ID from station metadata file

Convert Columns

- Right Click column header > Convert to…

Dates

- Prepare > Column Date > Make Date (Specify Format)
- Prepare > Column Date > Use Date (to create year and month columns)

Data Checking

- Describe > One Variable > Summarise (choose all columns)

Merge

- Prepare > Reshape > Merge
  - Choose station data frame first, satellite data frame second
  - Merge Options > "Choose which columns to merge by"
    - *Date* "Matched with" *time_date* click "Add Pair"
    - Return

Correlations

- Describe > Multivariate > Correlations
  - Choose "Multiple Columns" (enter station and satellite columns)
  - Options > Pairwise Plot or Scatter Matrix (by month)

Graphs

- Describe > Specific > Scatter Plot
  - Y and X: station and satellite columns
  - Plot Options > Include Facets > By Month

Bias and Absolute deviation calculations

- Climatic > Prepare > Compare

Summarise

- Prepare > Column: Reshape > Column Summaries
  - Variables to summarise: bias/abs_dev/station/satellite
  - By Factors: Month
  - Summaries > Choose Mean/Standard Deviation etc.