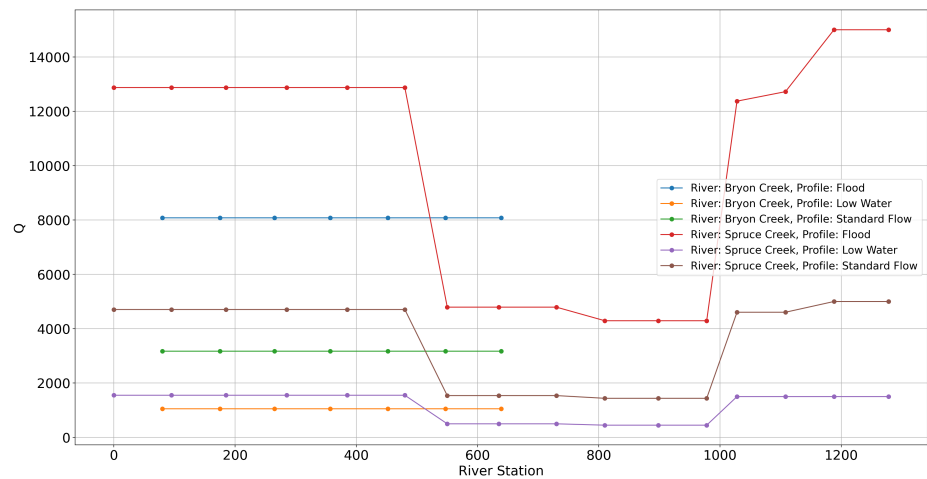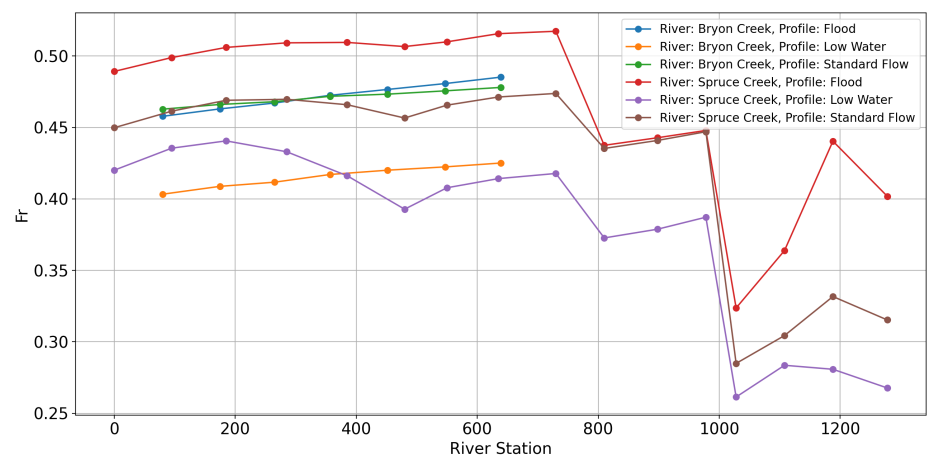In all examples, assume that the HEC-RAS data has already been imported as a DataFrame called `riverData`.

Plotting metrics with no optional inputs
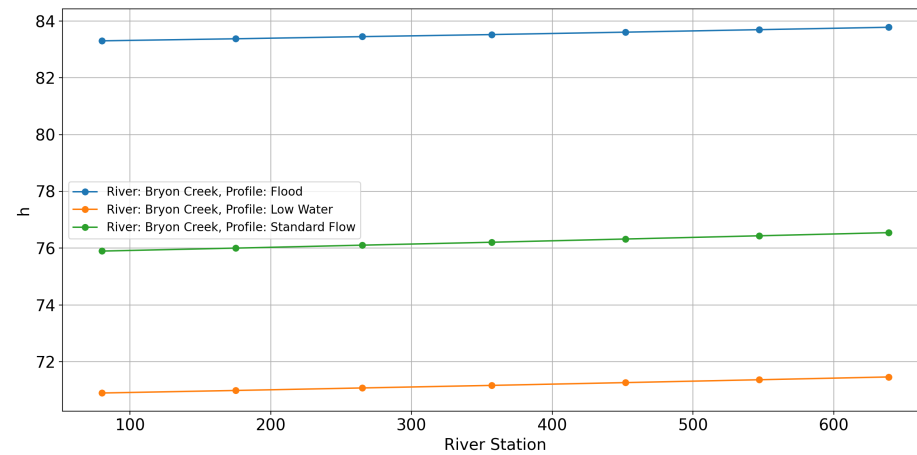
```
plotHECRAS(riverData, 'Q')
```
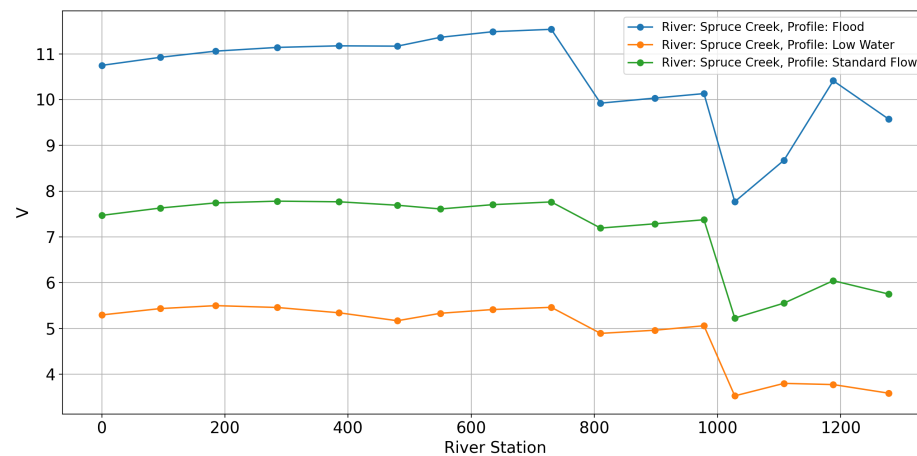


```
plotHECRAS(riverData, 'Fr')
```

Plotting with optional inputs

```python
# Plot h for only Bryon Creek
plotHECRAS(df, 'h', riverName='Bryon Creek')
```
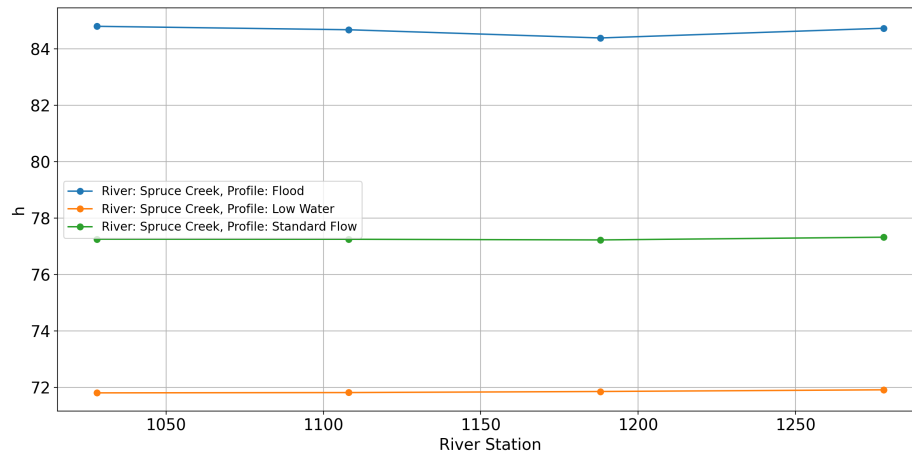


```python
# Plot V for only Spruce creek
plotHECRAS(df, 'V', riverName='Spruce Creek')
```
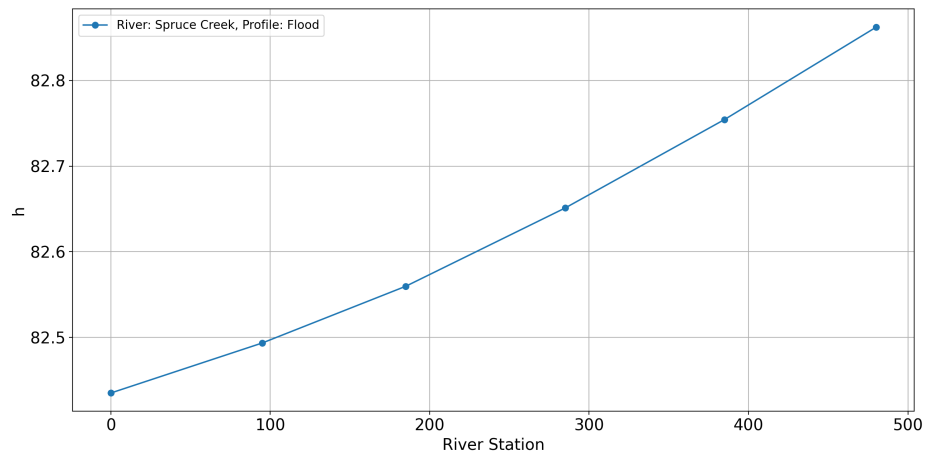
```
# Plot h for Spruce Creek, upper river section
plotHECRAS(df, 'h', riverName='Spruce Creek',
                    reachName='Upper River')
```
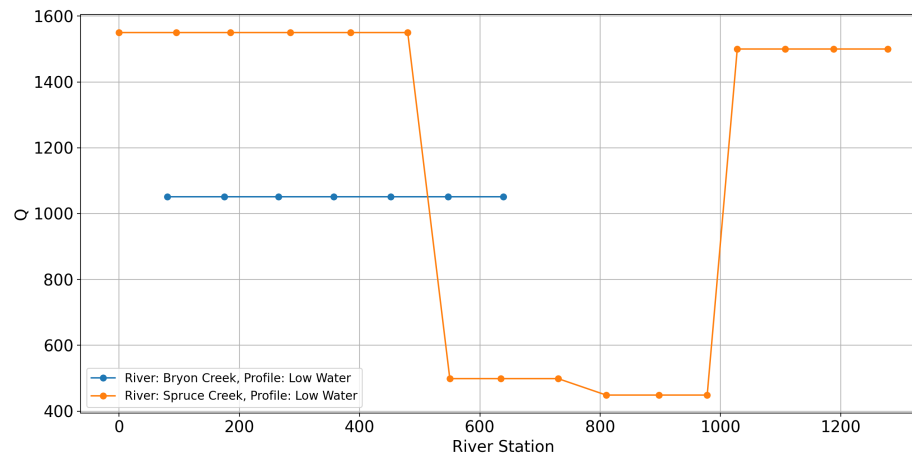
or, equivalently:

```
# Plot h for Spruce Creek, upper river section
plotHECRAS(df, 'h', reachName='Upper River')
```



```
# Plot h for Spruce Creek, lower river, flood profile
plotHECRAS(df, 'h', riverName='Spruce Creek',
                    reachName='Lower River',
                    profileName='Flood')
```

```python
# Plot Q for all rivers and reaches, but only low water
plotHECRAS(df, 'Q', profileName='Low Water')
```


Example of invalid metric name

```
plotHECRAS(riverData, 'conductivity')
Column conductivity not found in the input DataFrame.
```

Examples of invalid optional parameters

```
plotHECRAS(df, 'h', riverName='Spruce Creek', reachName='Waaaay upstream')
Resulting DataFrame is empty: check function inputs.
```

```
plotHECRAS(df, 'Q', riverName='Bryon Creek', reachName='Upper River')
Resulting DataFrame is empty: check function inputs.
```