

MATLAB® Test Report

Timestamp: 25-Feb-2022 12:16:14

Host: rpaully-33786s

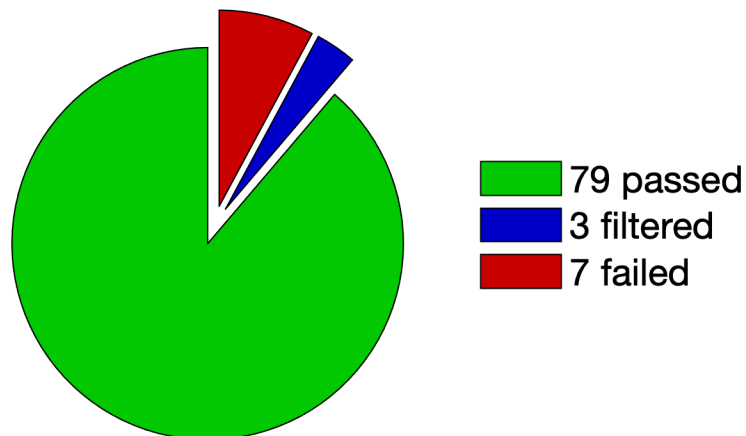
Platform: maci64

MATLAB Version: 9.8.0.1721703 (R2020a) Update 7

Number of Tests: 89

Testing Time: 723.4817 seconds

Overall Result: FAILED



Failure Summary

7 tests failed.

Name of Failing Test	Failure Reasons	
Wave_TestIOcdip/test_get_netcdf_variables_all2Dvars	Errored.	(Details)
Wave_TestIOcdip/test_get_netcdf_variables_params	Errored.	(Details)
Wave_TestIOcdip/test_get_netcdf_variables_time_slice	Errored.	(Details)
Wave_TestIOcdip/test_request_parse_workflow_multiyear	Errored.	(Details)
Wave_TestIOcdip/test_plot_boxplot	Errored.	(Details)
Wave_TestIOcdip/test_plot_compendium	Errored.	(Details)
Wave_TestIOcdip/test_plot_compendium2	Errored.	(Details)

Filter Summary

3 tests were filtered.

Name of Filtered Test	
Wave_TestResourceMetrics/test_environmental_contour	(Details)
Wave_TestResourceMetrics/test_plot_environmental_contour	(Details)
Wave_TestResourceMetrics/test_plot_environmental_contour_multiyear	(Details)

Overview

/Users/rpauly/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/

Loads_TestLoads	8.0600 seconds
✓✓✓✓✓✓✓	
Power_TestDevice	0.9871 seconds
✓✓✓✓✓✓✓✓	
QC_Test	0.5236 seconds
✓✓✓✓✓✓	
River_TestDevice	0.0285 seconds
✓✓✓✓✓✓✓	
River_TestIO	2.0141 seconds
✓✓✓✓✓	
River_TestResource	1.9886 seconds
✓✓✓✓✓✓✓✓✓✓✓✓✓✓	
Tidal_TestIO	2.4512 seconds
✓✓	
Tidal_TestResource	1.6881 seconds
✓✓✓✓✓✓	
Utils_TestGenUtils	2.6540 seconds
✓✓	
Wave_TestIO	41.1301 seconds
✓✓✓✓✓✓✓✓✓✓✓✓✓✓	
Wave_TestIOcdip	646.4672 seconds
✗✗✗✗✗✓✗✗✗✗	

Wave_TestPerformance	8.8056 seconds
Wave_TestResourceMetrics	3.8683 seconds
Wave_TestResourceSpectrum	2.8153 seconds

Details

/Users/rpauly/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/

Loads_TestLoads

✔ test_bin_statistics

The test passed.
Duration: 1.8504 seconds

[\(Overview\)](#)

✔ test_damage_equivalent_loads

The test passed.
Duration: 1.9667 seconds

[\(Overview\)](#)

✔ test_blade_moments

The test passed.
Duration: 0.0338 seconds

[\(Overview\)](#)

✔ test_plot_statistics

The test passed.
Duration: 2.1255 seconds

[\(Overview\)](#)

✔ test_plot_bin_statistics

The test passed.
Duration: 2.0829 seconds

[\(Overview\)](#)

✔ test_mhkit_import

Test Tags: DebuggingActions

The test passed.
Duration: 0.0006 seconds

[\(Overview\)](#)

Power_TestDevice

✔ test_harmonics_sine_wave

The test passed.

Duration: 0.4443 seconds

[\(Overview\)](#)

✔ test_harmonic_subgroup_sine_wave

The test passed.

Duration: 0.0572 seconds

[\(Overview\)](#)

✔ test_TCHD_sine_wave

The test passed.

Duration: 0.0712 seconds

[\(Overview\)](#)

✔ test_interharmonics_sine_wave

The test passed.

Duration: 0.0692 seconds

[\(Overview\)](#)

✔ test_instfreq

The test passed.

Duration: 0.3148 seconds

[\(Overview\)](#)

✔ test_dc_power

The test passed.

Duration: 0.0076 seconds

[\(Overview\)](#)

✔ test_ac_power_three_phase

The test passed.

Duration: 0.0227 seconds

[\(Overview\)](#)

QC_Test

✔ test_check_corrupt

The test passed.

Duration: 0.0888 seconds

[\(Overview\)](#)

✔ test_check_delta

The test passed.
Duration: 0.1500 seconds

[\(Overview\)](#)

✔ test_check_increment

The test passed.
Duration: 0.0913 seconds

[\(Overview\)](#)

✔ test_check_missing

The test passed.
Duration: 0.0631 seconds

[\(Overview\)](#)

✔ test_check_timestamp

The test passed.
Duration: 0.1304 seconds

[\(Overview\)](#)

River_TestDevice

✔ test_circular

The test passed.
Duration: 0.0058 seconds

[\(Overview\)](#)

✔ test_ducted

The test passed.
Duration: 0.0035 seconds

[\(Overview\)](#)

✔ test_rectangular

The test passed.
Duration: 0.0064 seconds

[\(Overview\)](#)

✔ test_multiple_circular

The test passed.
Duration: 0.0059 seconds

[\(Overview\)](#)

✔ test_tip_speed_ratio

The test passed.
Duration: 0.0038 seconds

[\(Overview\)](#)

✓ test_power_coefficient

The test passed.
Duration: 0.0032 seconds

[\(Overview\)](#)

River_TestIO

✓ test_load_usgs_data_instantaneous

The test passed.
Duration: 0.0834 seconds

[\(Overview\)](#)

✓ test_load_usgs_data_daily

The test passed.
Duration: 0.0206 seconds

[\(Overview\)](#)

✓ test_request_usgs_data_daily

The test passed.
Duration: 0.7310 seconds

[\(Overview\)](#)

✓ test_request_usgs_data_instant

The test passed.
Duration: 1.1792 seconds

[\(Overview\)](#)

River_TestResource

✓ test_Froude_number

The test passed.
Duration: 0.0055 seconds

[\(Overview\)](#)

✓ test_exceedance_probability

The test passed.
Duration: 0.0067 seconds

[\(Overview\)](#)

✓ test_polynomial_fit

The test passed.
Duration: 0.0090 seconds

[\(Overview\)](#)

✔ test_discharge_to_velocity

The test passed.
Duration: 0.0071 seconds

[\(Overview\)](#)

✔ test_velocity_to_power

The test passed.
Duration: 0.0158 seconds

[\(Overview\)](#)

✔ test_energy_produced

The test passed.
Duration: 0.0112 seconds

[\(Overview\)](#)

✔ test_plot_flow_duration_curve

The test passed.
Duration: 0.3241 seconds

[\(Overview\)](#)

✔ test_plot_power_duration_curve

The test passed.
Duration: 0.2861 seconds

[\(Overview\)](#)

✔ test_plot_velocity_duration_curve

The test passed.
Duration: 0.2987 seconds

[\(Overview\)](#)

✔ test_plot_discharge_timeseries

The test passed.
Duration: 0.3397 seconds

[\(Overview\)](#)

✔ test_plot_discharge_vs_velocity

The test passed.
Duration: 0.2803 seconds

[\(Overview\)](#)

✔ test_plot_velocity_vs_power

The test passed.
Duration: 0.4045 seconds

[\(Overview\)](#)

Tidal_TestIO

✔ test_load_noaa_data

The test passed.
Duration: 0.1172 seconds

[\(Overview\)](#)

✔ test_request_noaa_data

The test passed.
Duration: 2.3341 seconds

[\(Overview\)](#)

Tidal_TestResource

✔ test_exceedance_probability

The test passed.
Duration: 0.0078 seconds

[\(Overview\)](#)

✔ test_principal_flow_directions

The test passed.
Duration: 0.1841 seconds

[\(Overview\)](#)

✔ test_plot_current_timeseries

The test passed.
Duration: 0.4601 seconds

[\(Overview\)](#)

✔ test_plot_joint_probability_distribution

The test passed.
Duration: 0.4456 seconds

[\(Overview\)](#)

✔ test_plot_rose

The test passed.
Duration: 0.5906 seconds

[\(Overview\)](#)

Utils_TestGenUtils

✔ test_get_statistics

The test passed.

Duration: 2.6357 seconds

[\(Overview\)](#)

✔ test_excel_to_datetime

The test passed.

Duration: 0.0183 seconds

[\(Overview\)](#)

Wave_TestIO

✔ test_read_NDBC_realtime_met

The test passed.

Duration: 0.1165 seconds

[\(Overview\)](#)

✔ test_read_NDBC_historical_met

The test passed.

Duration: 0.1319 seconds

[\(Overview\)](#)

✔ test_read_NDBC_spectral

The test passed.

Duration: 0.0649 seconds

[\(Overview\)](#)

✔ test_ndbc_available_data

The test passed.

Duration: 1.1051 seconds

[\(Overview\)](#)

✔ test_ndbc_request_data

The test passed.

Duration: 0.8669 seconds

[\(Overview\)](#)

✔ test_swan_read_table

The test passed.

Duration: 0.0556 seconds

[\(Overview\)](#)

✔ test_swan_read_block

The test passed.

Duration: 0.1051 seconds

[\(Overview\)](#)

✔ test_WPTO_point_multiloc

The test passed.

Duration: 2.5690 seconds

[\(Overview\)](#)

✔ test_WPTO_point_multiparm

The test passed.

Duration: 36.1151 seconds

[\(Overview\)](#)

Wave_TestIOcdip

✘ test_get_netcdf_variables_all2Dvars

The test failed and did not run to completion.

Duration: 300.8878 seconds

Event:

Error occurred. As a result, the test did not run to completion.

Error Identifier: MATLAB:nonExistentField

Error Report:

```
Reference to non-existent field 'data'.
```

```
Error in Wave_TestIOcdip/test_get_netcdf_variables_all2Dvars (line 20)
    assertTrue(testCase, all(ismember(vars2D, fieldnames(data.data.wave2D))));
```

Event Location: Wave_TestIOcdip/test_get_netcdf_variables_all2Dvars

Stack:

```
In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestIOcdip.m (Wave_TestIOcdip.test_get_netcdf_variables_a
ll2Dvars) at 20
```

[\(Overview\)](#)

✘ test_get_netcdf_variables_params

The test failed and did not run to completion.

Duration: 36.2218 seconds

Event:

Error occurred. As a result, the test did not run to completion.

Error Identifier: MATLAB:nonExistentField

Error Report:

```
Reference to non-existent field 'data'.
```

```
Error in Wave_TestIOcdip/test_get_netcdf_variables_params (line 32)
    fieldnames(data.data.wave));
```

Event Location: Wave_TestIOcdip/test_get_netcdf_variables_params

Stack:

```
In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestIOcdip.m (Wave_TestIOcdip.test_get_netcdf_variables_p
arams) at 32
```

[\(Overview\)](#)

✖ test_get_netcdf_variables_time_slice

The test failed and did not run to completion.
Duration: 18.0704 seconds

Event:

Error occurred. As a result, the test did not run to completion.

Error Identifier: MATLAB:nonExistentField

Error Report:

```
Reference to non-existent field 'data'.  
  
Error in Wave_TestIOcdip/test_get_netcdf_variables_time_slice (line 55)  
    assertTrue(testCase, data.data.wave.waveTime(end) <= end_dt);
```

Event Location: Wave_TestIOcdip/test_get_netcdf_variables_time_slice

Stack:

```
In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestIOcdip.m (Wave_TestIOcdip.test_get_netcdf_variables_t  
ime_slice) at 55
```

[\(Overview\)](#)

✖ test_request_parse_workflow_multiyear

The test failed and did not run to completion.
Duration: 66.1004 seconds

Event:

Error occurred. As a result, the test did not run to completion.

Error Identifier: MATLAB:nonExistentField

Error Report:

```
Reference to non-existent field 'data'.  
  
Error in Wave_TestIOcdip/test_request_parse_workflow_multiyear (line 74)  
    data.data.wave.waveTime(1), 'start', 'day'), ...
```

Event Location: Wave_TestIOcdip/test_request_parse_workflow_multiyear

Stack:

```
In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestIOcdip.m (Wave_TestIOcdip.test_request_parse_workflo  
w_multiyear) at 74
```

[\(Overview\)](#)

✔ test_request_parse_workflow_no_times

The test passed.
Duration: 137.5936 seconds

[\(Overview\)](#)

✖ test_plot_boxplot

The test failed and did not run to completion.
Duration: 17.9520 seconds

Event:

Error occurred. As a result, the test did not run to completion.

Error Identifier: MATLAB:nonExistentField

Error Report:

```
Reference to non-existent field 'data'.  
  
Error in Wave_TestIOcdip/test_plot_boxplot (line 99)  
    data.data.wave.waveHs, ...
```

Event Location: Wave_TestIOcdip/test_plot_boxplot

Stack:

```
In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestIOcdip.m (Wave_TestIOcdip.test_plot_boxplot) at 99
```

[\(Overview\)](#)

✖ test_plot_compendium

The test failed and did not run to completion.

Duration: 32.8662 seconds

Event:

Error occurred. As a result, the test did not run to completion.

Error Identifier: MATLAB:nonExistentField

Error Report:

```
Reference to non-existent field 'data'.
```

```
Error in Wave_TestIOcdip/test_plot_compendium (line 115)  
data.data.wave.waveHs, ...
```

Event Location: Wave_TestIOcdip/test_plot_compendium

Stack:

```
In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestIOcdip.m (Wave_TestIOcdip.test_plot_compendium) at 115
```

[\(Overview\)](#)

✖ test_plot_compendium2

The test failed and did not run to completion.

Duration: 36.7750 seconds

Event:

Error occurred. As a result, the test did not run to completion.

Error Identifier: MATLAB:nonExistentField

Error Report:

```
Reference to non-existent field 'data'.
```

```
Error in Wave_TestIOcdip/test_plot_compendium2 (line 134)  
data.data.wave.waveHs, ...
```

Event Location: Wave_TestIOcdip/test_plot_compendium2

Stack:

```
In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestIOcdip.m (Wave_TestIOcdip.test_plot_compendium2) at 1  
34
```

[\(Overview\)](#)

Wave_TestPerformance

✔ test_capture_length

The test passed.

Duration: 0.0222 seconds

[\(Overview\)](#)

✔ test_capture_length_matrix

The test passed.

Duration: 0.0956 seconds

[\(Overview\)](#)

✔ test_wave_energy_flux_matrix

The test passed.

Duration: 0.0183 seconds

[\(Overview\)](#)

✔ test_power_matrix

The test passed.
Duration: 0.0458 seconds

[\(Overview\)](#)

✔ test_mean_annual_energy_production

The test passed.
Duration: 0.0202 seconds

[\(Overview\)](#)

✔ test_plot_matrix

The test passed.
Duration: 5.9017 seconds

[\(Overview\)](#)

✔ test_power_performance_workflow

The test passed.
Duration: 2.7018 seconds

[\(Overview\)](#)

Wave_TestResourceMetrics

✔ test_kfromw

The test passed.
Duration: 0.0109 seconds

[\(Overview\)](#)

✔ test_moments

The test passed.
Duration: 0.2728 seconds

[\(Overview\)](#)

✔ test_metrics_HsP

The test passed.
Duration: 0.1751 seconds

[\(Overview\)](#)

✔ test_metrics_AH

The test passed.
Duration: 0.1721 seconds

[\(Overview\)](#)

✔ test_metrics_CDIP1

The test passed.
Duration: 0.1748 seconds

[\(Overview\)](#)

✓ test_plot_elevation_timeseries

The test passed.
Duration: 1.2060 seconds

[\(Overview\)](#)

❗ test_environmental_contour

The test was filtered.
Duration: 0.0464 seconds

Event:

Assumption was not met. As a result, the remainder of the test was filtered.

Test Diagnostic:

Not compatible with latest MHKIT-Python

Event Location: Wave_TestResourceMetrics/test_environmental_contour

Stack:

In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestResourceMetrics.m (Wave_TestResourceMetrics.test_environmental_contour) at 285

[\(Overview\)](#)

❗ test_plot_environmental_contour

The test was filtered.
Duration: 0.0379 seconds

Event:

Assumption was not met. As a result, the remainder of the test was filtered.

Test Diagnostic:

Not compatible with latest MHKIT-Python

Event Location: Wave_TestResourceMetrics/test_plot_environmental_contour

Stack:

In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestResourceMetrics.m (Wave_TestResourceMetrics.test_plot_environmental_contour) at 335

[\(Overview\)](#)

❗ test_plot_environmental_contour_multiyear

The test was filtered.
Duration: 0.0350 seconds

Event:

Assumption was not met. As a result, the remainder of the test was filtered.

Test Diagnostic:

Not compatible with latest MHKIT-Python

Event Location: Wave_TestResourceMetrics/test_plot_environmental_contour_multiyear

Stack:

In /Users/rpaully/Documents/MHKit/MHKit/mhkit-matlab-1/mhkit/tests/Wave_TestResourceMetrics.m (Wave_TestResourceMetrics.test_plot_environmental_contour_multiyear) at 386

[\(Overview\)](#)

✓ test_chakrabarti

The test passed.
Duration: 1.7374 seconds

Wave_TestResourceSpectrum

✔ test_pierson_moskowitz_spectrum

The test passed.
Duration: 0.0273 seconds

[\(Overview\)](#)

✔ test_surface_elevation_seed

The test passed.
Duration: 0.6545 seconds

[\(Overview\)](#)

✔ test_surface_elevation_phasing

The test passed.
Duration: 0.6212 seconds

[\(Overview\)](#)

✔ test_surface_elevation_moments

The test passed.
Duration: 0.3706 seconds

[\(Overview\)](#)

✔ test_jonswap_spectrum

The test passed.
Duration: 0.0408 seconds

[\(Overview\)](#)

✔ test_plot_spectrum

The test passed.
Duration: 1.1009 seconds

[\(Overview\)](#)