

Habitable Exo-Planets Quality Report

- **Created at:** 2017-10-17 20:59:37.374443
- **Corral Version:** 0.3

1. Summary

- **Tests Success:** Yes
- **Tests Ran:** 4
- **Processors:** 3
- **Coverage:** 93.57%
- **Maintainability & Style Errors:** 4
- **QA Index:** 91.97%
- **QA Qualification:** A-

1.1 About The Corral Quality Assurance Index (QAI)

$$\text{QAI} = 2 * (\text{TP} * (\text{PT/PNC}) * \text{COV}) / (1 + \exp(\text{MSE}/\text{tau}))$$

Where:

TP: If all tests passes is 1, 0 otherwise.

PT: Processors and commands tested.

PCN: The number number of processors (Loader, Steps and Alerts) and commands.

COV: The code coverage (between 0 and 1).

MSE: The Maintainability and Style Errors.

tau: Tolerance of style errors per file

Current Value of Tau: 13.00 per file

1.2 About The Qualification

The Corral qualification is a quantitive scale based on QAI

- QAI \geq 0.00% – F
- QAI \geq 60.00% – D-
- QAI \geq 63.00% – D
- QAI \geq 67.00% – D+
- QAI \geq 70.00% – C-
- QAI \geq 73.00% – C
- QAI \geq 77.00% – C+

- QAI >= 80.00% - B-
- QAI >= 83.00% - B
- QAI >= 87.00% - B+
- QAI >= 90.00% - A-
- QAI >= 93.00% - A
- QAI >= 95.00% - A+

2. Full Output

2.1 Tests

```
runTest (exo.tests.LoadTest) ... ok
runTest (exo.tests.HabitableZoneTest) ... ok
runTest (exo.tests.HabitableZoneNoRstarNoTeffTest) ... ok
runTest (exo.tests.InHabitableZoneAlertTest) ... ok
```

Ran 4 tests in 2.138s

OK

2.2 Coverage

Name	Stmts	Miss	Cover
exo/__init__.py	1	0	100%
exo/alerts.py	37	11	70%
exo/commands.py	1	0	100%
exo/load.py	20	0	100%
exo/models.py	23	0	100%
exo/pipeline.py	4	0	100%
exo/settings.py	17	0	100%
exo/steps.py	19	0	100%
exo/tests.py	49	0	100%
TOTAL	171	11	94%

2.3 MAINTAINABILITY & STYLE

Found pep8-style errors.

Please check the Python code style reference: <https://www.python.org/dev/peps/pep-0008/>

Errors found:

```
exo/tests.py:25:0: F401 'mock' imported but unused
exo/tests.py:34:0: E303 too many blank lines (3)
exo/tests.py:38:0: E302 expected 2 blank lines, found 3
exo/tests.py:96:4: E303 too many blank lines (2)
```