PyCAMA - Support #25771

Prepare PyCAMA release 0.10.0

04/28/2020 09:50 AM - Maarten Sneep

Status:	Closed		**Start date:**	04/28/2020
Priority:	Normal		**Due date:**	05/21/2020
Assignee:	PDGS Operations		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:				

Description

- Documentation
- Update configuration
- Test cases

Related issues:

Related to PyCAMA - Support #25701: Verify and update settings of PyCAMA for ...	**Closed**	**04/28/2020**	**05/11/2020**
Related to PyCAMA - Bug #25711: Verify and update PyCAMA settings for UPAS pr...	**Closed**	**04/28/2020**	**05/11/2020**
Related to PyCAMA - Support #25721: Verify and update settings for PyCAMA for...	**Closed**	**04/28/2020**	**05/11/2020**
Related to PyCAMA - Support #24861: [PyCAMA] Test on CentOS 7.7 Sandbox	**Closed**	**03/05/2020**	

History

#1 - 04/28/2020 09:51 AM - Maarten Sneep

- Related to Support #25701: Verify and update settings of PyCAMA for S5P-NPP Cloud added

#2 - 04/28/2020 09:51 AM - Maarten Sneep

- Related to Bug #25711: Verify and update PyCAMA settings for UPAS products added

#3 - 04/28/2020 09:51 AM - Maarten Sneep

- Related to Support #25721: Verify and update settings for PyCAMA for NL-L2 products added

#5 - 04/28/2020 09:53 AM - Maarten Sneep

- Related to Support #24861: [PyCAMA] Test on CentOS 7.7 Sandbox added

#6 - 04/30/2020 01:41 PM - Maarten Sneep

- Subject changed from Prepare PyCAMA release to Prepare PyCAMA release 0.10.0

- Status changed from New to In Progress

#7 - 05/23/2020 02:21 PM - Maarten Sneep

- Status changed from In Progress to Feedback

- Assignee changed from Maarten Sneep to PDGS Operations

- % Done changed from 0 to 100

PyCAMA 0.10.0 is ready, and has been placed on the DMSF of this project. The user manual has been updated to reflect the current status.

- Distribution package: https://dev.knmi.nl/dmsf/files/11031/view or alternatively: hg clone https://dev.knmi.nl/hg/pycama.
- User manual: https://dev.knmi.nl/dmsf/files/1314/view
- Configuration file: https://dev.knmi.nl/dmsf/files/3381/view

The last two items are included in the distribution package.

Test data is not included in the package because of volume concerns (about 110 GB in total). When testing on the sandbox for CentOS 7.7, the test case failed, but the reason is unclear. The comparison tool reports differences, and while some insignificant rounding differences can be observed, other reported differences are not understood - I do not see how an empty string doesn't compare to an empty string. I ran the same test on my

laptop, and did not find any differences. We're likely dealing with some version difference of the python packages, but I do not think it is worth to get the test to reproduce, the code itself works fine. Using Python version 3.7.6 (final), numpy 1.18.1, netCDF4 1.5.1.2 (with netCDF4 library 4.6.2), and h5py 2.9.0 (with hdf5 library 1.10.4) will likely resolve the differences.

All 22 tests (offline and NRTI across all products) have been executed at KNMI, and test data is available on request. Before uploading I need to know how we want to continue. A smaller package for a single test case is available as well.

#8 - 05/23/2020 02:23 PM - Maarten Sneep

- File PyCAMA-0.10.0.zip added

Attached distribution package here for easy access.

#9 - 05/25/2020 08:51 AM - Maarten Sneep

- Target version deleted (PyCAMA 0.10.0)

#10 - 05/25/2020 11:40 AM - Maarten Sneep

As an extra test, I transferred the file generated in the sandbox to KNMI, and generated the report locally. This is working as expected. I do not see an issue here. Of course, if updates to the python modules are required for other processors then this issue may disappear as well.

Locally tested with python version 3.7.7 (final), numpy 1.18.1, netCDF4 1.5.3 (using netCDF4 library version 4.7.3), h5py 2.10.0 (with hdf-5 library version 1.10.4).

#11 - 10/03/2020 03:58 PM - Maarten Sneep

- Status changed from Feedback to Closed

Version 0.10.2 is active.

Files

PyCAMA-0.10.0.zip	3.65 MB	05/23/2020	Maarten Sneep