

PyCAMA - Support #9321

Update configuration of PyCAMA for daily extractions

04/23/2018 05:41 PM - Maarten Sneep

Status:	Closed	Start date:	04/23/2018
Priority:	Normal	Due date:	12/31/2018
Assignee:	Maarten Sneep	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	PyCAMA 0.9.0		
Description			
Configuration update for PDGS.			
Related issues:			
Related to PyCAMA - Support #14161: Time dependent QC questionnaire			Feedback 11/28/2018

History

#1 - 11/15/2018 04:20 PM - Maarten Sneep

- Due date set to 11/30/2018

The PyCAMA tool is now running for about 6 months on (near) operational data for most products. This also means that you have some experience with the output of PyCAMA and the reports on <http://mpc-l2.tropomi.eu/>

I think that this is a good moment to review the settings we use in PyCAMA. In particular:

- Are there parameters that can be removed from the list?
- Are there graphs that should be removed from the output? Specifically we can easily remove a parameter from the scatter density plots. Is there a parameter that doesn't add anything to those graphs?
- Are there parameters that should be monitored, but can be excluded from the L3 plots?
- Are the ranges of the histograms appropriate?
- Are there other errors in the output?
- Are we missing parameters?

This issue is for the configuration of PyCAMA. Feature requests can be added as issues to this project.

#2 - 11/23/2018 05:52 PM - Maarten Sneep

- File `PyCAMA_config_generator.py` added

Added the configuration file generator for PyCAMA to show what the starting point is.

#3 - 11/28/2018 12:46 PM - Maarten Sneep

- Related to Support #14161: Time dependent QC questionnaire added

#4 - 12/05/2018 12:22 PM - Maarten Sneep

- Subject changed from Update configuration to Update configuration of PyCAMA for daily extractions

#5 - 12/05/2018 12:23 PM - Maarten Sneep

- Due date changed from 11/30/2018 to 12/31/2018

Extended feedback period to match the time dependent questionnaire.

#6 - 12/18/2018 04:39 PM - Klaus-Peter Heue

Hi Maarten

There is one variable for the OFFL report we want to include here as well as in the time dependent reports, namely the "effective_albedo". Range (-0.1 to 1.3)

I suggest to skip AMF trueness completely from the NRTI report - it is a function of SZA and this how it looks like in the report.

Moreover the data ranges for the following variables might be adapted:

O3 vertical column precision [mol/m²]: 0 - 0.015 for NRTI and 0 - 0.01 for OFFL

Fitting RMS 0 - 0.006 for both

shift: ~~+0.03~~ and stretch: + 0.01

Effective temperature NRTI 200 - 280 [K] no change for OFFL

O3 ghost column 0-0.01 only available in OFFL

Klaus-Peter

#7 - 01/08/2019 10:49 AM - Maarten Sneep

- Target version set to PyCAMA 0.9.0

Thank you Klaus-Peter for hte feedback. I've incorporated your requests in the upcoming version.

All others: please let me know ASAP if you have changes for the PyCAMA configuration.

#8 - 01/16/2019 04:59 PM - Maarten Sneep

Some of you requested a different range for the histogram and the world-plot. This is already possible. If you want to use this, please update the configuration to include a 'map_range' key, with the desired range for your world plot. If not available, the data_range key will be used.

#9 - 01/25/2019 09:55 AM - Maarten Sneep

- Status changed from New to Closed

- % Done changed from 0 to 100

As PyCAMA 0.9.0 has been released I'm closing this issue here. A new request will be made for PyCAMA 0.10.0, which will likely be the version used for collection 2 reprocessing and the start for long-term monitoring.

Files

PyCAMA_config_generator.py	175 KB	11/23/2018	Maarten Sneep
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