

## PyCAMA - Bug #28981

### [PyCAMA] Hard crash when processing NPP data

11/27/2020 11:54 AM - Maarten Sneep

<b>Status:</b>	Resolved	<b>Start date:</b>	11/27/2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Maarten Sneep	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
Prepared release 0.10.5 to fix an issue when processing NPP-VIIRS data.			
<pre>2020-11-26T17:30:47.252852 s5p-val2-off-pn00 PyCAMA 0.10.2 [0000026634]: [E] [Errno -101] NetCDF: HDF error: b'/mnt/data1/storage_offl_l1b/pp_pycama/NPP/S5P_OFFL_L2__NP_BD3_20190510T081608_2019051 0T095738_08143_01_010100_20201125T083454.nc'</pre>			
Traceback (most recent call last):			
File "/data/sw/MPC/MPC_PYCAMA_V00.10.02/src/pycama/CAMA_call.py", line 169, in main			
data.read()			
File "/data/sw/MPC/MPC_PYCAMA_V00.10.02/src/pycama/Reader.py", line 1220, in read			
self.read_file(files[p][i], p, scanline_selection=selected_scanlines[p])			
File "/data/sw/MPC/MPC_PYCAMA_V00.10.02/src/pycama/Reader.py", line 574, in read_file			
dim_names = f.dimension_names(v.primary_var)			
File "/data/sw/MPC/MPC_PYCAMA_V00.10.02/src/pycama/File.py", line 246, in dimension_names			
with netCDF4.Dataset(self.path, 'r') as ncref:			
File "netCDF4/_netCDF4.pyx", line 2321, in netCDF4._netCDF4.Dataset.__init__			
File "netCDF4/_netCDF4.pyx", line 1885, in netCDF4._netCDF4._ensure_nc_success			
OSError: [Errno -101] NetCDF: HDF error: b'/mnt/data1/storage_offl_l1b/pp_pycama/NPP/S5P_OFFL_L2__ NP_BD3_20190510T081608_20190510T095738_08143_01_010100_20201125T083454.nc'			
This could be traced back to the separation between dimensions and the corresponding variables, as introduced by the L1B team. In the crashing code, I used a fallback to find the dimension names using the netCDF4 interface, while most of the reading is done via the h5py interface. I have now figured out how to achieve the same result using the h5py interface only.			
Fixed in 0.10.5 (released today).			