**LOG:**

Microsoft Windows [版本 10.0.18363.900]

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C:\Users\user>cd C:\Users\user\Sen2Cor-02.10.01-win64

C:\Users\user\Sen2Cor-02.10.01-win64>L2A\_Process --help

usage: L2A\_Process.py [-h] [--mode MODE] [--resolution {10,20,60}]

[--datastrip DATASTRIP] [--tile TILE]

[--output\_dir OUTPUT\_DIR] [--work\_dir WORK\_DIR]

[--img\_database\_dir IMG\_DATABASE\_DIR]

[--res\_database\_dir RES\_DATABASE\_DIR]

[--processing\_centre PROCESSING\_CENTRE]

[--archiving\_centre ARCHIVING\_CENTRE]

[--processing\_baseline PROCESSING\_BASELINE] [--raw]

[--tif] [--sc\_only] [--sc\_classic] [--sc\_cog]

[--cr\_only] [--debug] [--GIP\_L2A GIP\_L2A]

[--GIP\_L2A\_SC GIP\_L2A\_SC] [--GIP\_L2A\_AC GIP\_L2A\_AC]

[--GIP\_L2A\_PB GIP\_L2A\_PB]

input\_dir

Sen2Cor. Version: 02.10.01, created: 2021.12.13, supporting Level-1C product

version 14.2 - 14.9.

positional arguments:

input\_dir Directory of Level-1C input

optional arguments:

-h, --help show this help message and exit

--mode MODE Mode: generate\_datastrip, process\_tile

--resolution {10,20,60}

Target resolution, can be 10, 20 or 60m. If omitted,

only 20 and 10m resolutions will be processed

--datastrip DATASTRIP

Datastrip folder

--tile TILE Tile folder

--output\_dir OUTPUT\_DIR

Output directory

--work\_dir WORK\_DIR Work directory

--img\_database\_dir IMG\_DATABASE\_DIR

Database directory for L1C input images

--res\_database\_dir RES\_DATABASE\_DIR

Database directory for results and temporary products

--processing\_centre PROCESSING\_CENTRE

Processing centre as regex: ^[A-Z\_]{4}$, e.g "SGS\_"

--archiving\_centre ARCHIVING\_CENTRE

Archiving centre as regex: ^[A-Z\_]{4}$, e.g. "SGS\_"

--processing\_baseline PROCESSING\_BASELINE

Processing baseline in the format: "dd.dd", where

d=[0:9]

--raw Export raw images in rawl format with ENVI hdr

--tif Export raw images in TIFF format instead of JPEG-2000

--sc\_only Performs only the scene classification at 60 or 20m

resolution

--sc\_classic Performs scene classification in Sen2Cor 2.9 mode

--sc\_cog Export SCL image in COG format instead of JPEG\_2000

--cr\_only Performs only the creation of the L2A product tree, no

processing

--debug Performs in debug mode

--GIP\_L2A GIP\_L2A Select the user GIPP

--GIP\_L2A\_SC GIP\_L2A\_SC

Select the scene classification GIPP

--GIP\_L2A\_AC GIP\_L2A\_AC

Select the atmospheric correction GIPP

--GIP\_L2A\_PB GIP\_L2A\_PB

Select the processing baseline GIPP

C:\Users\user\Sen2Cor-02.10.01-win64>L2A\_Process --resolution 10 F:\Part2\2.10versionSencor\S2B\_MSIL1C\_20230415T031519\_N0509\_R118\_T49RCQ\_20230415T050850.SAFE

Product versions > 14.9 are not implemented yet.

Version 14.9 will be used by default, but warnings during validation might occur.

Sen2Cor. Version: 02.10.01, created: 2021.12.13, supporting Level-1C product version 14.2 - 14.9 started ...

Product version: 14.9

Operation mode: TOOLBOX

Processing baseline: 99.99

Progress[%]: 0.00 : Generating datastrip metadata

L2A datastrip successfully generated

Selected resolution: 10 m

Progress[%]: 0.04 : PID-54940, L2A\_ProcessTile: 20 m resolution must be processed first, elapsed time[s]: 1.148, total: 0:00:05.638000

Progress[%]: 0.09 : PID-54940, L2A\_ProcessTile: processing with resolution 20 m, elapsed time[s]: 1.207, total: 0:00:06.845000

Progress[%]: 0.09 : PID-54940, L2A\_ProcessTile: start of pre processing, elapsed time[s]: 0.001, total: 0:00:06.846000

Progress[%]: 0.09 : PID-54940, L2A\_Tables: start import, elapsed time[s]: 0.073, total: 0:00:06.919000

Progress[%]: 0.11 : PID-54940, L2A\_Tables: band B01 imported, elapsed time[s]: 0.541, total: 0:00:07.460000

Progress[%]: 0.57 : PID-54940, L2A\_Tables: band B02 imported, elapsed time[s]: 12.371, total: 0:00:19.831000

Progress[%]: 1.05 : PID-54940, L2A\_Tables: band B03 imported, elapsed time[s]: 12.836, total: 0:00:32.667000

Progress[%]: 1.52 : PID-54940, L2A\_Tables: band B04 imported, elapsed time[s]: 12.519, total: 0:00:45.186000

Progress[%]: 1.69 : PID-54940, L2A\_Tables: band B05 imported, elapsed time[s]: 4.341, total: 0:00:49.527000

Progress[%]: 1.85 : PID-54940, L2A\_Tables: band B06 imported, elapsed time[s]: 4.464, total: 0:00:53.991000

Progress[%]: 2.02 : PID-54940, L2A\_Tables: band B07 imported, elapsed time[s]: 4.404, total: 0:00:58.395000

Progress[%]: 2.19 : PID-54940, L2A\_Tables: band B8A imported, elapsed time[s]: 4.520, total: 0:01:02.915000

Progress[%]: 2.21 : PID-54940, L2A\_Tables: band B09 imported, elapsed time[s]: 0.580, total: 0:01:03.495000

Progress[%]: 2.23 : PID-54940, L2A\_Tables: band B10 imported, elapsed time[s]: 0.497, total: 0:01:03.992000

Progress[%]: 2.39 : PID-54940, L2A\_Tables: band B11 imported, elapsed time[s]: 4.255, total: 0:01:08.247000

Progress[%]: 2.55 : PID-54940, L2A\_Tables: band B12 imported, elapsed time[s]: 4.360, total: 0:01:12.607000

Progress[%]: 2.55 : PID-54940, L2A\_Tables: AUX\_CAMS\* file found., elapsed time[s]: 0.028, total: 0:01:12.635000

Progress[%]: 3.20 : PID-54940, L2A\_Tables: Visibility map from file AUX\_CAMSFO prepared, elapsed time[s]: 17.381, total: 0:01:30.016000

Progress[%]: 3.20 : PID-54940, L2A\_ProcessTile: start of Scene Classification, elapsed time[s]: 0.009, total: 0:01:30.025000

Progress[%]: 3.21 : PID-54940, L2A\_Tables: band B02 must be resampled, elapsed time[s]: 0.293, total: 0:01:30.318000

Progress[%]: 3.35 : PID-54940, Pre process , elapsed time[s]: 3.609, total: 0:01:33.927000

Progress[%]: 3.35 : PID-54940, L2A\_Tables: band B01 must be resampled, elapsed time[s]: 0.011, total: 0:01:33.938000

Progress[%]: 3.63 : PID-54940, L2A\_Tables: band B03 must be resampled, elapsed time[s]: 7.597, total: 0:01:41.535000

Progress[%]: 3.77 : PID-54940, L2A\_Tables: band B04 must be resampled, elapsed time[s]: 3.579, total: 0:01:45.114000

Progress[%]: 3.93 : PID-54940, L2A\_Tables: band B09 must be resampled, elapsed time[s]: 4.333, total: 0:01:49.447000

Progress[%]: 4.10 : PID-54940, L2A\_Tables: band B10 must be resampled, elapsed time[s]: 4.693, total: 0:01:54.140000

Progress[%]: 4.30 : PID-54940, L2A\_SC init , elapsed time[s]: 5.199, total: 0:01:59.339000

Progress[%]: 4.35 : PID-54940, L2A\_CSND\_1\_1 , elapsed time[s]: 1.486, total: 0:02:00.825000

Progress[%]: 4.42 : PID-54940, L2A\_CSND\_1\_2 , elapsed time[s]: 1.738, total: 0:02:02.563000

Progress[%]: 4.43 : PID-54940, L2A\_CSND\_2\_0 , elapsed time[s]: 0.374, total: 0:02:02.937000

Progress[%]: 4.49 : PID-54940, L2A\_CSND\_2\_1 , elapsed time[s]: 1.612, total: 0:02:04.549000

Progress[%]: 4.52 : PID-54940, L2A\_CSND\_2\_1\_2, elapsed time[s]: 0.779, total: 0:02:05.328000

Progress[%]: 4.55 : PID-54940, L2A\_CSND\_2\_2 , elapsed time[s]: 0.649, total: 0:02:05.977000

Progress[%]: 4.58 : PID-54940, L2A\_CSND\_2\_3 , elapsed time[s]: 0.910, total: 0:02:06.887000

Progress[%]: 4.64 : PID-54940, L2A\_CSND\_2\_4 , elapsed time[s]: 1.593, total: 0:02:08.480000

Progress[%]: 4.71 : PID-54940, L2A\_CSND\_2\_5 , elapsed time[s]: 1.822, total: 0:02:10.302000

Progress[%]: 4.71 : PID-54940, L2A\_SnowPostProcessingCCI , elapsed time[s]: 0.005, total: 0:02:10.307000

Progress[%]: 4.81 : PID-54940, L2A\_CSND\_3 , elapsed time[s]: 2.690, total: 0:02:12.997000

Progress[%]: 4.89 : PID-54940, L2A\_CSND\_5\_1 , elapsed time[s]: 2.226, total: 0:02:15.223000

Progress[%]: 5.01 : PID-54940, L2A\_CSND\_5\_2 , elapsed time[s]: 3.155, total: 0:02:18.378000

Progress[%]: 5.10 : PID-54940, L2A\_CSND\_6 , elapsed time[s]: 2.329, total: 0:02:20.707000

Progress[%]: 5.15 : PID-54940, L2A\_CSND\_6\_2 , elapsed time[s]: 1.467, total: 0:02:22.174000

Progress[%]: 5.23 : PID-54940, L2A\_CSND\_7 , elapsed time[s]: 2.001, total: 0:02:24.175000

Progress[%]: 5.30 : PID-54940, DV recovery , elapsed time[s]: 2.058, total: 0:02:26.233000

Progress[%]: 5.39 : PID-54940, WP recovery , elapsed time[s]: 2.333, total: 0:02:28.566000

Progress[%]: 5.39 : PID-54940, WP recovery with CCI Water Bodies at 150m , elapsed time[s]: 0.002, total: 0:02:28.568000

Progress[%]: 5.46 : PID-54940, Snow recovery , elapsed time[s]: 1.946, total: 0:02:30.514000

Progress[%]: 5.66 : PID-54940, SnowSoilBorders, elapsed time[s]: 5.278, total: 0:02:35.792000

Progress[%]: 5.71 : PID-54940, Soil recovery , elapsed time[s]: 1.197, total: 0:02:36.989000

Progress[%]: 5.71 : PID-54940, Cirrus recovery with B10 , elapsed time[s]: 0.002, total: 0:02:36.991000

Progress[%]: 5.71 : PID-54940, Urban and Bare pixel recovery with CCI Land Cover Map at 300 m , elapsed time[s]: 0.003, total: 0:02:36.994000

Progress[%]: 6.25 : PID-54940, Bright pixels Hollstein Fmask, elapsed time[s]: 14.403, total: 0:02:51.397000

Cloud heights processed in 0:00:20.555000 seconds

Progress[%]: 9.67 : PID-54940, L2A\_SHD , elapsed time[s]: 91.438, total: 0:04:22.835000

Progress[%]: 9.67 : PID-54940, WP recovery with CCI Water Bodies at 150m , elapsed time[s]: 0.002, total: 0:04:22.837000

Progress[%]: 9.73 : PID-54940, Topographic casted shadow Pixels post processing, elapsed time[s]: 1.732, total: 0:04:24.569000

Progress[%]: 9.78 : PID-54940, Post process , elapsed time[s]: 1.318, total: 0:04:25.887000

Progress[%]: 9.78 : PID-54940, L2A\_ProcessTile: start of Atmospheric Correction, elapsed time[s]: 0.089, total: 0:04:25.976000

Progress[%]: 9.85 : PID-54940, L2A\_AtmCorr: end of calculation terrain maps, elapsed time[s]: 1.675, total: 0:04:27.651000

Progress[%]: 9.85 : PID-54940, L2A\_AtmCorr: start of AOT retrieval at 550nm, elapsed time[s]: 0.001, total: 0:04:27.652000

Progress[%]: 10.10 : PID-54940, L2A\_AtmCorr: end of internal classification, elapsed time[s]: 6.763, total: 0:04:34.415000

Progress[%]: 10.12 : PID-54940, L2A\_AtmCorr: end of interpolation LUTs, elapsed time[s]: 0.504, total: 0:04:34.919000

Progress[%]: 11.03 : PID-54940, L2A\_AtmCorr: end retrieving reference pixels for dark areas, elapsed time[s]: 24.224, total: 0:04:59.143000

Progress[%]: 12.90 : PID-54940, L2A\_AtmCorr: end of check for negative reflectance pixels, elapsed time[s]: 50.054, total: 0:05:49.197000

Progress[%]: 13.04 : PID-54940, L2A\_AtmCorr: the rescaling of path radiance in blue band has been disabled by configuration, elapsed time[s]: 3.686, total: 0:05:52.883000

Progress[%]: 13.92 : PID-54940, L2A\_AtmCorr: end of visibility index calculation, elapsed time[s]: 23.622, total: 0:06:16.505000

Progress[%]: 13.92 : PID-54940, L2A\_AtmCorr: end of AOT retrieval at 550nm, elapsed time[s]: 0.002, total: 0:06:16.507000

Progress[%]: 13.92 : PID-54940, L2A\_AtmCorr: start of water vapour retrieval, elapsed time[s]: 0.001, total: 0:06:16.508000

Progress[%]: 13.95 : PID-54940, L2A\_AtmCorr: end of water vapour retrieval preparation, elapsed time[s]: 0.855, total: 0:06:17.363000

Progress[%]: 19.55 : PID-54940, L2A\_AtmCorr: end of water vapour retrieval, elapsed time[s]: 149.698, total: 0:08:47.061000

Progress[%]: 19.55 : PID-54940, L2A\_AtmCorr: preparation of surface reflectance retrieval, elapsed time[s]: 0.002, total: 0:08:47.063000

Progress[%]: 19.73 : PID-54940, L2A\_AtmCorr: end of surface reflectance retrieval preparation, elapsed time[s]: 4.560, total: 0:08:51.623000

Progress[%]: 19.73 : PID-54940, L2A\_AtmCorr: start of surface reflectance retrieval, elapsed time[s]: 0.001, total: 0:08:51.624000

Progress[%]: 25.66 : PID-54940, L2A\_AtmCorr: end of surface reflectance retrieval, elapsed time[s]: 158.631, total: 0:11:30.255000

Progress[%]: 25.66 : PID-54940, L2A\_AtmCorr: start of rho retrieval step 2, elapsed time[s]: 0.017, total: 0:11:30.272000

Progress[%]: 27.67 : PID-54940, L2A\_AtmCorr: end of rho retrieval step 2, elapsed time[s]: 53.720, total: 0:12:23.992000

Progress[%]: 27.67 : PID-54940, L2A\_ProcessTile: start of post processing, elapsed time[s]: 0.031, total: 0:12:24.023000

Progress[%]: 27.71 : PID-54940, L2A\_Tables: start export for 20 m resolution, elapsed time[s]: 1.111, total: 0:12:25.134000

Progress[%]: 27.96 : PID-54940, L2A\_Tables: band B01 exported, elapsed time[s]: 6.616, total: 0:12:31.750000

Progress[%]: 28.42 : PID-54940, L2A\_Tables: band B02 exported, elapsed time[s]: 12.196, total: 0:12:43.946000

Progress[%]: 28.91 : PID-54940, L2A\_Tables: band B03 exported, elapsed time[s]: 13.181, total: 0:12:57.127000

Progress[%]: 29.38 : PID-54940, L2A\_Tables: band B04 exported, elapsed time[s]: 12.554, total: 0:13:09.681000

Progress[%]: 29.81 : PID-54940, L2A\_Tables: band B05 exported, elapsed time[s]: 11.512, total: 0:13:21.193000

Progress[%]: 30.25 : PID-54940, L2A\_Tables: band B06 exported, elapsed time[s]: 11.643, total: 0:13:32.836000

Progress[%]: 30.68 : PID-54940, L2A\_Tables: band B07 exported, elapsed time[s]: 11.561, total: 0:13:44.397000

Progress[%]: 31.10 : PID-54940, L2A\_Tables: band B8A exported, elapsed time[s]: 11.297, total: 0:13:55.694000

Progress[%]: 31.51 : PID-54940, L2A\_Tables: band B11 exported, elapsed time[s]: 10.804, total: 0:14:06.498000

Progress[%]: 31.95 : PID-54940, L2A\_Tables: band B12 exported, elapsed time[s]: 11.811, total: 0:14:18.309000

Progress[%]: 32.02 : PID-54940, L2A\_Tables: band SCL exported, elapsed time[s]: 1.911, total: 0:14:20.220000

Progress[%]: 32.06 : PID-54940, L2A\_Tables: band SNW exported, elapsed time[s]: 0.974, total: 0:14:21.194000

Progress[%]: 32.12 : PID-54940, L2A\_Tables: band CLD exported, elapsed time[s]: 1.664, total: 0:14:22.858000

Progress[%]: 32.19 : PID-54940, L2A\_Tables: band AOT exported, elapsed time[s]: 1.794, total: 0:14:24.652000

Progress[%]: 32.62 : PID-54940, L2A\_Tables: band WVP exported, elapsed time[s]: 11.685, total: 0:14:36.337000

Progress[%]: 32.68 : PID-54940, L2A\_Tables: band VIS exported, elapsed time[s]: 1.400, total: 0:14:37.737000

Progress[%]: 32.73 : PID-54940, L2A\_Tables: band PVI exported, elapsed time[s]: 1.458, total: 0:14:39.195000

Progress[%]: 33.70 : PID-54940, L2A\_Tables: band TCI exported, elapsed time[s]: 25.949, total: 0:15:05.144000

Progress[%]: 33.70 : PID-54940, L2A\_Tables: stop export, elapsed time[s]: 0.028, total: 0:15:05.172000

Progress[%]: 33.70 : PID-54940, L2A\_Tables: preparing downsampled export for 60 m resolution, elapsed time[s]: 0.008, total: 0:15:05.180000

Progress[%]: 33.70 : PID-54940, L2A\_Tables: start export for 60 m resolution, elapsed time[s]: 0.002, total: 0:15:05.182000

Progress[%]: 33.81 : PID-54940, L2A\_Tables: band B01 exported, elapsed time[s]: 2.922, total: 0:15:08.104000

Progress[%]: 33.89 : PID-54940, L2A\_Tables: band B02 exported, elapsed time[s]: 2.063, total: 0:15:10.167000

Progress[%]: 33.97 : PID-54940, L2A\_Tables: band B03 exported, elapsed time[s]: 2.175, total: 0:15:12.342000

Progress[%]: 34.05 : PID-54940, L2A\_Tables: band B04 exported, elapsed time[s]: 2.154, total: 0:15:14.496000

Progress[%]: 34.14 : PID-54940, L2A\_Tables: band B05 exported, elapsed time[s]: 2.291, total: 0:15:16.787000

Progress[%]: 34.22 : PID-54940, L2A\_Tables: band B06 exported, elapsed time[s]: 2.307, total: 0:15:19.094000

Progress[%]: 34.32 : PID-54940, L2A\_Tables: band B07 exported, elapsed time[s]: 2.468, total: 0:15:21.562000

Progress[%]: 34.41 : PID-54940, L2A\_Tables: band B8A exported, elapsed time[s]: 2.437, total: 0:15:23.999000

Progress[%]: 34.51 : PID-54940, L2A\_Tables: band B09 exported, elapsed time[s]: 2.694, total: 0:15:26.693000

Progress[%]: 34.60 : PID-54940, L2A\_Tables: band B11 exported, elapsed time[s]: 2.369, total: 0:15:29.062000

Progress[%]: 34.68 : PID-54940, L2A\_Tables: band B12 exported, elapsed time[s]: 2.203, total: 0:15:31.265000

Progress[%]: 34.80 : PID-54940, L2A\_Tables: band SCL exported, elapsed time[s]: 3.253, total: 0:15:34.518000

Progress[%]: 34.83 : PID-54940, L2A\_Tables: band SNW exported, elapsed time[s]: 0.721, total: 0:15:35.239000

Progress[%]: 34.86 : PID-54940, L2A\_Tables: band CLD exported, elapsed time[s]: 0.739, total: 0:15:35.978000

Progress[%]: 34.89 : PID-54940, L2A\_Tables: band AOT exported, elapsed time[s]: 0.900, total: 0:15:36.878000

Progress[%]: 34.97 : PID-54940, L2A\_Tables: band WVP exported, elapsed time[s]: 2.067, total: 0:15:38.945000

Progress[%]: 34.97 : PID-54940, L2A\_Tables: band TCI must be resampled, elapsed time[s]: 0.003, total: 0:15:38.948000

Progress[%]: 35.08 : PID-54940, L2A\_Tables: band TCI exported, elapsed time[s]: 3.126, total: 0:15:42.074000

Progress[%]: 35.21 : PID-54940, L2A\_ProcessTile: processing with resolution 10 m, elapsed time[s]: 3.283, total: 0:15:45.357000

Progress[%]: 35.21 : PID-54940, L2A\_ProcessTile: start of pre processing, elapsed time[s]: 0.002, total: 0:15:45.359000

Progress[%]: 35.21 : PID-54940, L2A\_Tables: remove unused bands for 10m resolution, elapsed time[s]: 0.081, total: 0:15:45.440000

Progress[%]: 35.21 : PID-54940, L2A\_Tables: start import, elapsed time[s]: 0.060, total: 0:15:45.500000

Progress[%]: 35.69 : PID-54940, L2A\_Tables: band B08 imported, elapsed time[s]: 12.627, total: 0:15:58.127000

Progress[%]: 35.69 : PID-54940, L2A\_Tables: band SCL needs to be resampled, elapsed time[s]: 0.074, total: 0:15:58.201000

Progress[%]: 36.08 : PID-54940, L2A\_Tables: band SCL imported, elapsed time[s]: 10.583, total: 0:16:08.784000

Progress[%]: 36.09 : PID-54940, L2A\_Tables: band AOT needs to be resampled, elapsed time[s]: 0.042, total: 0:16:08.826000

Progress[%]: 36.47 : PID-54940, L2A\_Tables: band AOT imported, elapsed time[s]: 10.293, total: 0:16:19.119000

Progress[%]: 36.47 : PID-54940, L2A\_Tables: band WVP needs to be resampled, elapsed time[s]: 0.037, total: 0:16:19.156000

Progress[%]: 36.86 : PID-54940, L2A\_Tables: band WVP imported, elapsed time[s]: 10.466, total: 0:16:29.622000

Progress[%]: 36.87 : PID-54940, L2A\_Tables: band VIS needs to be resampled, elapsed time[s]: 0.039, total: 0:16:29.661000

Progress[%]: 37.26 : PID-54940, L2A\_Tables: band VIS imported, elapsed time[s]: 10.484, total: 0:16:40.145000

Progress[%]: 37.28 : PID-54940, L2A\_ProcessTile: start of Atmospheric Correction, elapsed time[s]: 0.717, total: 0:16:40.862000

Progress[%]: 37.54 : PID-54940, L2A\_AtmCorr: end of calculation terrain maps, elapsed time[s]: 6.781, total: 0:16:47.643000

Progress[%]: 37.54 : PID-54940, L2A\_AtmCorr: start of resampling visibility for 10 m resolution, elapsed time[s]: 0.005, total: 0:16:47.648000

Progress[%]: 37.59 : PID-54940, L2A\_AtmCorr: end of resampling visibility for 10 m resolution, elapsed time[s]: 1.344, total: 0:16:48.992000

Progress[%]: 37.71 : PID-54940, L2A\_AtmCorr: end of AOT retrieval at 550nm, elapsed time[s]: 3.244, total: 0:16:52.236000

Progress[%]: 37.71 : PID-54940, L2A\_AtmCorr: preparation of surface reflectance retrieval, elapsed time[s]: 0.001, total: 0:16:52.237000

Progress[%]: 37.82 : PID-54940, L2A\_AtmCorr: end of surface reflectance retrieval preparation, elapsed time[s]: 3.027, total: 0:16:55.264000

Progress[%]: 37.82 : PID-54940, L2A\_AtmCorr: start of surface reflectance retrieval, elapsed time[s]: 0.002, total: 0:16:55.266000

Progress[%]: 46.77 : PID-54940, L2A\_AtmCorr: end of surface reflectance retrieval, elapsed time[s]: 239.049, total: 0:20:54.315000

Progress[%]: 46.77 : PID-54940, L2A\_AtmCorr: start of rho retrieval step 2, elapsed time[s]: 0.050, total: 0:20:54.365000

Progress[%]: 51.94 : PID-54940, L2A\_AtmCorr: end of rho retrieval step 2, elapsed time[s]: 138.247, total: 0:23:12.612000

Progress[%]: 51.94 : PID-54940, L2A\_ProcessTile: start of post processing, elapsed time[s]: 0.026, total: 0:23:12.638000

Progress[%]: 51.94 : PID-54940, L2A\_Tables: start export for 10 m resolution, elapsed time[s]: 0.004, total: 0:23:12.642000

Progress[%]: 53.45 : PID-54940, L2A\_Tables: band B02 exported, elapsed time[s]: 40.098, total: 0:23:52.740000

Progress[%]: 54.92 : PID-54940, L2A\_Tables: band B03 exported, elapsed time[s]: 39.476, total: 0:24:32.216000

Progress[%]: 56.44 : PID-54940, L2A\_Tables: band B04 exported, elapsed time[s]: 40.503, total: 0:25:12.719000

Progress[%]: 57.95 : PID-54940, L2A\_Tables: band B08 exported, elapsed time[s]: 40.391, total: 0:25:53.110000

Progress[%]: 58.25 : PID-54940, L2A\_Tables: band AOT exported, elapsed time[s]: 8.082, total: 0:26:01.192000

Progress[%]: 59.45 : PID-54940, L2A\_Tables: band WVP exported, elapsed time[s]: 32.113, total: 0:26:33.305000

Progress[%]: 62.20 : PID-54940, L2A\_Tables: band TCI exported, elapsed time[s]: 73.361, total: 0:27:46.666000

Progress[%]: 62.21 : PID-54940, L2A\_Tables: stop export, elapsed time[s]: 0.253, total: 0:27:46.919000

Progress[%]: 100.00 : Application terminated successfully.

C:\Users\user\Sen2Cor-02.10.01-win64>L2A\_Process --resolution 20 F:\Part2\2.10versionSencor\S2B\_MSIL1C\_20230415T031519\_N0509\_R118\_T49RCQ\_20230415T050850.SAFE

Product versions > 14.9 are not implemented yet.

Version 14.9 will be used by default, but warnings during validation might occur.

Sen2Cor. Version: 02.10.01, created: 2021.12.13, supporting Level-1C product version 14.2 - 14.9 started ...

Product version: 14.9

Operation mode: TOOLBOX

Processing baseline: 99.99

Progress[%]: 0.00 : Generating datastrip metadata

L2A datastrip successfully generated

Selected resolution: 20 m

Progress[%]: 0.18 : PID-26796, L2A\_ProcessTile: processing with resolution 20 m, elapsed time[s]: 1.673, total: 0:00:06.297000

Progress[%]: 0.18 : PID-26796, L2A\_ProcessTile: start of pre processing, elapsed time[s]: 0.001, total: 0:00:06.298000

Progress[%]: 0.19 : PID-26796, L2A\_Tables: start import, elapsed time[s]: 0.082, total: 0:00:06.380000

Progress[%]: 0.24 : PID-26796, L2A\_Tables: band B01 imported, elapsed time[s]: 0.477, total: 0:00:06.857000

Progress[%]: 1.52 : PID-26796, L2A\_Tables: band B02 imported, elapsed time[s]: 11.881, total: 0:00:18.738000

Progress[%]: 2.89 : PID-26796, L2A\_Tables: band B03 imported, elapsed time[s]: 12.793, total: 0:00:31.531000

Progress[%]: 4.22 : PID-26796, L2A\_Tables: band B04 imported, elapsed time[s]: 12.426, total: 0:00:43.957000

Progress[%]: 4.68 : PID-26796, L2A\_Tables: band B05 imported, elapsed time[s]: 4.211, total: 0:00:48.168000

Progress[%]: 5.16 : PID-26796, L2A\_Tables: band B06 imported, elapsed time[s]: 4.459, total: 0:00:52.627000

Progress[%]: 5.68 : PID-26796, L2A\_Tables: band B07 imported, elapsed time[s]: 4.839, total: 0:00:57.466000

Progress[%]: 6.19 : PID-26796, L2A\_Tables: band B8A imported, elapsed time[s]: 4.784, total: 0:01:02.250000

Progress[%]: 6.24 : PID-26796, L2A\_Tables: band B09 imported, elapsed time[s]: 0.505, total: 0:01:02.755000

Progress[%]: 6.29 : PID-26796, L2A\_Tables: band B10 imported, elapsed time[s]: 0.454, total: 0:01:03.209000

Progress[%]: 6.79 : PID-26796, L2A\_Tables: band B11 imported, elapsed time[s]: 4.653, total: 0:01:07.862000

Progress[%]: 7.32 : PID-26796, L2A\_Tables: band B12 imported, elapsed time[s]: 4.943, total: 0:01:12.805000

Progress[%]: 7.33 : PID-26796, L2A\_Tables: AUX\_CAMS\* file found., elapsed time[s]: 0.031, total: 0:01:12.836000

Progress[%]: 9.38 : PID-26796, L2A\_Tables: Visibility map from file AUX\_CAMSFO prepared, elapsed time[s]: 19.150, total: 0:01:31.986000

Progress[%]: 9.38 : PID-26796, L2A\_ProcessTile: start of Scene Classification, elapsed time[s]: 0.009, total: 0:01:31.995000

Progress[%]: 9.42 : PID-26796, L2A\_Tables: band B02 must be resampled, elapsed time[s]: 0.312, total: 0:01:32.307000

Progress[%]: 9.77 : PID-26796, Pre process , elapsed time[s]: 3.265, total: 0:01:35.572000

Progress[%]: 9.77 : PID-26796, L2A\_Tables: band B01 must be resampled, elapsed time[s]: 0.009, total: 0:01:35.581000

Progress[%]: 10.59 : PID-26796, L2A\_Tables: band B03 must be resampled, elapsed time[s]: 7.686, total: 0:01:43.267000

Progress[%]: 10.97 : PID-26796, L2A\_Tables: band B04 must be resampled, elapsed time[s]: 3.466, total: 0:01:46.733000

Progress[%]: 11.47 : PID-26796, L2A\_Tables: band B09 must be resampled, elapsed time[s]: 4.711, total: 0:01:51.444000

Progress[%]: 12.04 : PID-26796, L2A\_Tables: band B10 must be resampled, elapsed time[s]: 5.236, total: 0:01:56.680000

Progress[%]: 12.59 : PID-26796, L2A\_SC init , elapsed time[s]: 5.163, total: 0:02:01.843000

Progress[%]: 12.74 : PID-26796, L2A\_CSND\_1\_1 , elapsed time[s]: 1.434, total: 0:02:03.277000

Progress[%]: 12.92 : PID-26796, L2A\_CSND\_1\_2 , elapsed time[s]: 1.635, total: 0:02:04.912000

Progress[%]: 12.96 : PID-26796, L2A\_CSND\_2\_0 , elapsed time[s]: 0.359, total: 0:02:05.271000

Progress[%]: 13.13 : PID-26796, L2A\_CSND\_2\_1 , elapsed time[s]: 1.582, total: 0:02:06.853000

Progress[%]: 13.21 : PID-26796, L2A\_CSND\_2\_1\_2, elapsed time[s]: 0.767, total: 0:02:07.620000

Progress[%]: 13.28 : PID-26796, L2A\_CSND\_2\_2 , elapsed time[s]: 0.610, total: 0:02:08.230000

Progress[%]: 13.37 : PID-26796, L2A\_CSND\_2\_3 , elapsed time[s]: 0.876, total: 0:02:09.106000

Progress[%]: 13.53 : PID-26796, L2A\_CSND\_2\_4 , elapsed time[s]: 1.489, total: 0:02:10.595000

Progress[%]: 13.71 : PID-26796, L2A\_CSND\_2\_5 , elapsed time[s]: 1.694, total: 0:02:12.289000

Progress[%]: 13.71 : PID-26796, L2A\_SnowPostProcessingCCI , elapsed time[s]: 0.003, total: 0:02:12.292000

Progress[%]: 13.98 : PID-26796, L2A\_CSND\_3 , elapsed time[s]: 2.498, total: 0:02:14.790000

Progress[%]: 14.21 : PID-26796, L2A\_CSND\_5\_1 , elapsed time[s]: 2.131, total: 0:02:16.921000

Progress[%]: 14.53 : PID-26796, L2A\_CSND\_5\_2 , elapsed time[s]: 3.028, total: 0:02:19.949000

Progress[%]: 14.78 : PID-26796, L2A\_CSND\_6 , elapsed time[s]: 2.309, total: 0:02:22.258000

Progress[%]: 14.94 : PID-26796, L2A\_CSND\_6\_2 , elapsed time[s]: 1.484, total: 0:02:23.742000

Progress[%]: 15.16 : PID-26796, L2A\_CSND\_7 , elapsed time[s]: 1.990, total: 0:02:25.732000

Progress[%]: 15.38 : PID-26796, DV recovery , elapsed time[s]: 2.055, total: 0:02:27.787000

Progress[%]: 15.63 : PID-26796, WP recovery , elapsed time[s]: 2.329, total: 0:02:30.116000

Progress[%]: 15.63 : PID-26796, WP recovery with CCI Water Bodies at 150m , elapsed time[s]: 0.003, total: 0:02:30.119000

Progress[%]: 15.84 : PID-26796, Snow recovery , elapsed time[s]: 1.963, total: 0:02:32.082000

Progress[%]: 16.40 : PID-26796, SnowSoilBorders, elapsed time[s]: 5.278, total: 0:02:37.360000

Progress[%]: 16.53 : PID-26796, Soil recovery , elapsed time[s]: 1.210, total: 0:02:38.570000

Progress[%]: 16.53 : PID-26796, Cirrus recovery with B10 , elapsed time[s]: 0.003, total: 0:02:38.573000

Progress[%]: 16.53 : PID-26796, Urban and Bare pixel recovery with CCI Land Cover Map at 300 m , elapsed time[s]: 0.003, total: 0:02:38.576000

Progress[%]: 18.07 : PID-26796, Bright pixels Hollstein Fmask, elapsed time[s]: 14.252, total: 0:02:52.828000

Cloud heights processed in 0:00:19.776000 seconds

Progress[%]: 27.73 : PID-26796, L2A\_SHD , elapsed time[s]: 89.960, total: 0:04:22.788000

Progress[%]: 27.73 : PID-26796, WP recovery with CCI Water Bodies at 150m , elapsed time[s]: 0.002, total: 0:04:22.790000

Progress[%]: 27.93 : PID-26796, Topographic casted shadow Pixels post processing, elapsed time[s]: 1.913, total: 0:04:24.703000

Progress[%]: 28.09 : PID-26796, Post process , elapsed time[s]: 1.415, total: 0:04:26.118000

Progress[%]: 28.10 : PID-26796, L2A\_ProcessTile: start of Atmospheric Correction, elapsed time[s]: 0.106, total: 0:04:26.224000

Progress[%]: 28.28 : PID-26796, L2A\_AtmCorr: end of calculation terrain maps, elapsed time[s]: 1.743, total: 0:04:27.967000

Progress[%]: 28.28 : PID-26796, L2A\_AtmCorr: start of AOT retrieval at 550nm, elapsed time[s]: 0.003, total: 0:04:27.970000

Progress[%]: 29.03 : PID-26796, L2A\_AtmCorr: end of internal classification, elapsed time[s]: 6.924, total: 0:04:34.894000

Progress[%]: 29.08 : PID-26796, L2A\_AtmCorr: end of interpolation LUTs, elapsed time[s]: 0.482, total: 0:04:35.376000

Progress[%]: 31.54 : PID-26796, L2A\_AtmCorr: end retrieving reference pixels for dark areas, elapsed time[s]: 22.889, total: 0:04:58.265000

Progress[%]: 36.72 : PID-26796, L2A\_AtmCorr: end of check for negative reflectance pixels, elapsed time[s]: 48.290, total: 0:05:46.555000

Progress[%]: 37.09 : PID-26796, L2A\_AtmCorr: the rescaling of path radiance in blue band has been disabled by configuration, elapsed time[s]: 3.367, total: 0:05:49.922000

Progress[%]: 39.55 : PID-26796, L2A\_AtmCorr: end of visibility index calculation, elapsed time[s]: 22.941, total: 0:06:12.863000

Progress[%]: 39.55 : PID-26796, L2A\_AtmCorr: end of AOT retrieval at 550nm, elapsed time[s]: 0.002, total: 0:06:12.865000

Progress[%]: 39.55 : PID-26796, L2A\_AtmCorr: start of water vapour retrieval, elapsed time[s]: 0.004, total: 0:06:12.869000

Progress[%]: 39.64 : PID-26796, L2A\_AtmCorr: end of water vapour retrieval preparation, elapsed time[s]: 0.823, total: 0:06:13.692000

Progress[%]: 55.60 : PID-26796, L2A\_AtmCorr: end of water vapour retrieval, elapsed time[s]: 148.583, total: 0:08:42.275000

Progress[%]: 55.60 : PID-26796, L2A\_AtmCorr: preparation of surface reflectance retrieval, elapsed time[s]: 0.002, total: 0:08:42.277000

Progress[%]: 56.06 : PID-26796, L2A\_AtmCorr: end of surface reflectance retrieval preparation, elapsed time[s]: 4.354, total: 0:08:46.631000

Progress[%]: 56.06 : PID-26796, L2A\_AtmCorr: start of surface reflectance retrieval, elapsed time[s]: 0.002, total: 0:08:46.633000

Progress[%]: 72.75 : PID-26796, L2A\_AtmCorr: end of surface reflectance retrieval, elapsed time[s]: 155.385, total: 0:11:22.018000

Progress[%]: 72.75 : PID-26796, L2A\_AtmCorr: start of rho retrieval step 2, elapsed time[s]: 0.012, total: 0:11:22.030000

Progress[%]: 78.18 : PID-26796, L2A\_AtmCorr: end of rho retrieval step 2, elapsed time[s]: 50.473, total: 0:12:12.503000

Progress[%]: 78.18 : PID-26796, L2A\_ProcessTile: start of post processing, elapsed time[s]: 0.029, total: 0:12:12.532000

Progress[%]: 78.29 : PID-26796, L2A\_Tables: start export for 20 m resolution, elapsed time[s]: 1.053, total: 0:12:13.585000

Progress[%]: 78.96 : PID-26796, L2A\_Tables: band B01 exported, elapsed time[s]: 6.265, total: 0:12:19.850000

Progress[%]: 80.19 : PID-26796, L2A\_Tables: band B02 exported, elapsed time[s]: 11.405, total: 0:12:31.255000

Progress[%]: 81.48 : PID-26796, L2A\_Tables: band B03 exported, elapsed time[s]: 12.050, total: 0:12:43.305000

Progress[%]: 82.76 : PID-26796, L2A\_Tables: band B04 exported, elapsed time[s]: 11.842, total: 0:12:55.147000

Progress[%]: 83.88 : PID-26796, L2A\_Tables: band B05 exported, elapsed time[s]: 10.461, total: 0:13:05.608000

Progress[%]: 85.07 : PID-26796, L2A\_Tables: band B06 exported, elapsed time[s]: 11.131, total: 0:13:16.739000

Progress[%]: 86.31 : PID-26796, L2A\_Tables: band B07 exported, elapsed time[s]: 11.481, total: 0:13:28.220000

Progress[%]: 87.51 : PID-26796, L2A\_Tables: band B8A exported, elapsed time[s]: 11.224, total: 0:13:39.444000

Progress[%]: 88.70 : PID-26796, L2A\_Tables: band B11 exported, elapsed time[s]: 11.044, total: 0:13:50.488000

Progress[%]: 89.87 : PID-26796, L2A\_Tables: band B12 exported, elapsed time[s]: 10.865, total: 0:14:01.353000

Progress[%]: 90.05 : PID-26796, L2A\_Tables: band SCL exported, elapsed time[s]: 1.667, total: 0:14:03.020000

Progress[%]: 90.14 : PID-26796, L2A\_Tables: band SNW exported, elapsed time[s]: 0.850, total: 0:14:03.870000

Progress[%]: 90.28 : PID-26796, L2A\_Tables: band CLD exported, elapsed time[s]: 1.329, total: 0:14:05.199000

Progress[%]: 90.45 : PID-26796, L2A\_Tables: band AOT exported, elapsed time[s]: 1.603, total: 0:14:06.802000

Progress[%]: 91.54 : PID-26796, L2A\_Tables: band WVP exported, elapsed time[s]: 10.124, total: 0:14:16.926000

Progress[%]: 91.65 : PID-26796, L2A\_Tables: band VIS exported, elapsed time[s]: 1.072, total: 0:14:17.998000

Progress[%]: 91.77 : PID-26796, L2A\_Tables: band PVI exported, elapsed time[s]: 1.099, total: 0:14:19.097000

Progress[%]: 94.14 : PID-26796, L2A\_Tables: band TCI exported, elapsed time[s]: 22.039, total: 0:14:41.136000

Progress[%]: 94.14 : PID-26796, L2A\_Tables: stop export, elapsed time[s]: 0.026, total: 0:14:41.162000

Progress[%]: 94.14 : PID-26796, L2A\_Tables: preparing downsampled export for 60 m resolution, elapsed time[s]: 0.010, total: 0:14:41.172000

Progress[%]: 94.14 : PID-26796, L2A\_Tables: start export for 60 m resolution, elapsed time[s]: 0.002, total: 0:14:41.174000

Progress[%]: 94.32 : PID-26796, L2A\_Tables: band B01 exported, elapsed time[s]: 1.653, total: 0:14:42.827000

Progress[%]: 94.51 : PID-26796, L2A\_Tables: band B02 exported, elapsed time[s]: 1.804, total: 0:14:44.631000

Progress[%]: 94.73 : PID-26796, L2A\_Tables: band B03 exported, elapsed time[s]: 1.995, total: 0:14:46.626000

Progress[%]: 94.95 : PID-26796, L2A\_Tables: band B04 exported, elapsed time[s]: 2.025, total: 0:14:48.651000

Progress[%]: 95.22 : PID-26796, L2A\_Tables: band B05 exported, elapsed time[s]: 2.579, total: 0:14:51.230000

Progress[%]: 95.43 : PID-26796, L2A\_Tables: band B06 exported, elapsed time[s]: 1.956, total: 0:14:53.186000

Progress[%]: 95.68 : PID-26796, L2A\_Tables: band B07 exported, elapsed time[s]: 2.307, total: 0:14:55.493000

Progress[%]: 95.89 : PID-26796, L2A\_Tables: band B8A exported, elapsed time[s]: 1.978, total: 0:14:57.471000

Progress[%]: 96.11 : PID-26796, L2A\_Tables: band B09 exported, elapsed time[s]: 2.056, total: 0:14:59.527000

Progress[%]: 96.33 : PID-26796, L2A\_Tables: band B11 exported, elapsed time[s]: 2.049, total: 0:15:01.576000

Progress[%]: 96.55 : PID-26796, L2A\_Tables: band B12 exported, elapsed time[s]: 2.017, total: 0:15:03.593000

Progress[%]: 96.75 : PID-26796, L2A\_Tables: band SCL exported, elapsed time[s]: 1.815, total: 0:15:05.408000

Progress[%]: 96.80 : PID-26796, L2A\_Tables: band SNW exported, elapsed time[s]: 0.514, total: 0:15:05.922000

Progress[%]: 96.86 : PID-26796, L2A\_Tables: band CLD exported, elapsed time[s]: 0.581, total: 0:15:06.503000

Progress[%]: 96.94 : PID-26796, L2A\_Tables: band AOT exported, elapsed time[s]: 0.693, total: 0:15:07.196000

Progress[%]: 97.13 : PID-26796, L2A\_Tables: band WVP exported, elapsed time[s]: 1.780, total: 0:15:08.976000

Progress[%]: 97.13 : PID-26796, L2A\_Tables: band TCI must be resampled, elapsed time[s]: 0.003, total: 0:15:08.979000

Progress[%]: 97.56 : PID-26796, L2A\_Tables: band TCI exported, elapsed time[s]: 4.021, total: 0:15:13

Progress[%]: 100.00 : Application terminated successfully.





