

JUICE-SCM/Ground Segment - Issues

#	Tracker	Status	Priority	Subject	Assignee	Updated
3998	Task	New	High	Documenter le code MMS/SCM avec IDLdoc	Laurent Mirioni	04/01/2023 12:04 PM
3999	Task	Closed	High	Installer et tester IDLdoc en local	Laurent Mirioni	04/01/2023 12:00 PM
4000	Task	In Progress	High	Formatage des commentaires MMS/SCM	Laurent Mirioni	04/01/2023 12:04 PM
4001	Task	New	Normal	Adapter le code IDL d'MMS/SCM à JUICE/SCM	Laurent Mirioni	07/12/2022 07:44 AM
4003	Task	New	Normal	MàJ du document Ground Segment Development Plan for RPWI	Laurent Mirioni	07/12/2022 05:30 PM
4024	Task	New	Normal	Première version calibration python	Theo Stassen	28/07/2023 07:02 PM
4028	Task	Resolved	Normal	Create Kernel in python	Theo Stassen	02/03/2023 10:35 AM
4029	Task	In Progress	Normal	Extract and export cdf file	Theo Stassen	15/02/2023 04:54 PM
4030	Task	Resolved	Normal	Bessel filter	Theo Stassen	15/02/2023 04:57 PM
4031	Task	Resolved	Normal	DFB filter	Theo Stassen	16/02/2023 05:38 PM
4032	Task	Resolved	Normal	Antenna response function	Theo Stassen	02/03/2023 10:31 AM
4033	Task	Resolved	Normal	Fourier transform (and inverse transform) function	Theo Stassen	14/03/2023 05:49 PM
4037	Task	Resolved	Normal	Bandpass filter	Theo Stassen	24/02/2023 05:42 PM
4038	Task	Resolved	Normal	Discover units test python methods and Create Unit tests of the kernel	Theo Stassen	15/03/2023 12:48 PM
4039	Task	Resolved	Normal	Unit test Bessel filter	Theo Stassen	24/02/2023 05:46 PM
4040	Task	Resolved	Normal	Unit test DFB	Theo Stassen	24/02/2023 05:48 PM
4041	Task	Resolved	Normal	Unit test Antenna filter	Theo Stassen	02/03/2023 10:32 AM
4043	Task	Resolved	Normal	Create the complete Kernel	Theo Stassen	15/03/2023 04:05 PM
4044	Task	Resolved	Normal	Create unit test for corgain (ant, dfb, bessel)	Theo Stassen	14/03/2023 05:49 PM
4045	Task	Resolved	Normal	Reorganise the code to have all config/metadatas in one csv file, called by the unit tests	Theo Stassen	14/03/2023 05:49 PM
4050	Task	Resolved	Normal	Create the kernel_creation function	Theo Stassen	15/03/2023 04:02 PM
4051	Task	Resolved	Normal	Unit test kernel_creation	Theo Stassen	15/03/2023 04:05 PM
4052	Task	Resolved	Normal	Full code documentation	Theo Stassen	15/03/2023 04:07 PM
4053	Task	Resolved	Normal	Create deconvo_vec function (kernel part)	Theo Stassen	15/03/2023 04:31 PM
4054	Task	Resolved	Normal	Hanning window creation	Theo Stassen	15/03/2023 04:24 PM
4055	Task	Resolved	Normal	Check real/imag parts	Theo Stassen	15/03/2023 04:27 PM
4056	Task	Resolved	Normal	Shift kernel	Theo Stassen	15/03/2023 04:29 PM
4057	Task	Resolved	Normal	Coscut window creation	Theo Stassen	15/03/2023 04:30 PM
4058	Task	Resolved	Normal	Gaussian window creation	Theo Stassen	15/03/2023 04:30 PM
4059	Task	Resolved	Normal	Trapezoid window creation	Theo Stassen	15/03/2023 04:31 PM
4060	Task	Resolved	Normal	Unit test deconvo vec (for each window type)	Theo Stassen	15/03/2023 04:31 PM

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4061	Task	Resolved	Normal	deconvo_vec convolution part	Theo Stassen	24/03/2023 05:54 PM
4062	Task	Resolved	Normal	Correct the documentation strings warnings and pylint errors (if possible)	Theo Stassen	17/03/2023 05:49 PM
4065	Task	Resolved	Normal	Implement blk_con IDL function	Theo Stassen	31/03/2023 06:03 PM
4066	Task	Resolved	Normal	Implement graphical comparison between idl and python calibration	Theo Stassen	31/03/2023 06:03 PM
4067	Task	In Progress	Normal	Create Calibrate CDF function	Theo Stassen	11/04/2023 03:09 PM
4068	Task	Resolved	Normal	Implement the blocks separation, calibration and concatenation after being calibrated	Theo Stassen	31/03/2023 06:07 PM
4069	Task	Resolved	Normal	Implement the cdf writing of results	Theo Stassen	11/04/2023 03:09 PM
4070	Task	Resolved	Normal	Implement function that compare two l1b cdf file data	Theo Stassen	11/04/2023 03:09 PM
4071	Task	Resolved	Normal	General class to compare waveforms, in order to compare easily different cdf results	Theo Stassen	11/04/2023 03:11 PM
4076	Task	Resolved	Normal	Implementation of ConfigHandler class	Theo Stassen	26/04/2023 05:39 PM
4077	Task	Resolved	Normal	Implement function that compute the spectrogram of a waveform	Theo Stassen	26/04/2023 05:41 PM
4078	Task	Resolved	Normal	Implement a simple spectrogram plot	Theo Stassen	26/04/2023 05:42 PM
4079	Task	Resolved	Normal	Create function that plot multiple spectrograms	Theo Stassen	26/04/2023 05:44 PM
4081	Task	Resolved	Normal	Create Function that compare idl spectrum and computed spectrum	Theo Stassen	27/04/2023 06:19 PM
4085	Task	Resolved	Normal	Reorganise and simplify spectra related functions	Theo Stassen	05/05/2023 06:41 PM
4086	Task	Resolved	Normal	Spectra densities computation	Theo Stassen	16/05/2023 02:19 PM
4087	Task	Resolved	Normal	Spectra densities plot and comparison	Theo Stassen	16/05/2023 03:24 PM
4088	Task	Resolved	Normal	Completely change ConfigHandler functioning	Theo Stassen	16/05/2023 03:40 PM
4089	Task	In Progress	Normal	ConfigHandler modularity implementation	Theo Stassen	17/05/2023 05:03 PM
4091	Task	Resolved	Normal	Global attributes and cdf name gestion	Theo Stassen	16/05/2023 04:27 PM
4092	Task	Resolved	Normal	default / current / limits config gestion	Theo Stassen	16/05/2023 04:28 PM
4093	Task	Resolved	Normal	Make class for deduce parameter values, depending on other parameters	Theo Stassen	17/05/2023 05:03 PM
4094	Task	Resolved	Normal	kernel_creation.py reworked for modularity	Theo Stassen	16/05/2023 04:31 PM
4095	Task	Resolved	Normal	Implement system of class extends for kernel creation and deduce_parameters	Theo Stassen	17/05/2023 05:08 PM
4099	Task	Resolved	Normal	Spectra powers computation	Theo Stassen	30/05/2023 11:16 AM
4100	Task	Resolved	Normal	Spectra powers plot / comparison	Theo Stassen	30/05/2023 11:36 AM
4101	Task	Resolved	Normal	Quicklook computation / plot	Theo Stassen	30/05/2023 11:32 AM
4102	Task	Resolved	Normal	Config Handler and config files modifications / improvements	Theo Stassen	30/05/2023 11:35 AM
4103	Task	Resolved	Normal	Modularisation of calibrate data block	Theo Stassen	30/05/2023 11:36 AM
4105	Task	Resolved	Normal	Create functional Diagram of the code	Theo Stassen	05/06/2023 06:27 PM
4106	Task	Resolved	Normal	Sphinx documentation with cross referencing, complete explanations, structurations : calibration part	Theo Stassen	05/06/2023 06:29 PM
4107	Task	Resolved	Normal	Sphinx documentation with cross referencing, complete explanations, structurations : configuration part	Theo Stassen	05/06/2023 06:30 PM
4108	Task	Resolved	Normal	Sphinx documentation with cross referencing, complete explanations, structurations : evaluation part	Theo Stassen	05/06/2023 06:31 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
4109	Task	Resolved	Normal	Rewrite the readme with a summary of the documentation	Theo Stassen	08/06/2023 10:32 AM
4110	Task	Resolved	Normal	Analyse fichiers L1A JUICE	Theo Stassen	08/06/2023 10:36 AM
4112	Task	Resolved	Normal	Add freq samp deducing function in deduce parameters	Theo Stassen	09/06/2023 06:41 PM
4113	Task	Resolved	Normal	Reorganise functions (kernel conv window, waveform padding, set frequency first, calfactor	Theo Stassen	09/06/2023 06:43 PM
4116	Task	Resolved	Normal	Adapt the code to use SCHB mode	Theo Stassen	15/06/2023 06:30 PM
4117	Task	Resolved	Normal	Adapt the code to have correct visual representation of SHCB results	Theo Stassen	15/06/2023 06:33 PM
4120	Task	Resolved	Normal	Add documentation on all code parameters	Theo Stassen	19/06/2023 05:45 PM
4122	Task	Resolved	Normal	Make correct and complete quicklook, with same infos than MMS IDL's one	Theo Stassen	23/06/2023 11:54 AM
4124	Task	Resolved	Normal	Create script with inline inputs, for calibrate and quicklook	Theo Stassen	23/06/2023 12:02 PM
4125	Task	Resolved	Normal	Make inline arguments gestion modular, in separate function, to use it in all scripts	Theo Stassen	27/06/2023 11:45 AM
4126	Task	Resolved	Normal	Modify config handler (config file gestion) and adapt to the new config handler use in every functions	Theo Stassen	27/06/2023 11:50 AM
4129	Task	Resolved	Normal	Resolve plenty of problems concerning configHandler	Theo Stassen	03/07/2023 04:48 PM
4130	Task	Resolved	Normal	Implement a first bash script, with auto venv use	Theo Stassen	03/07/2023 04:49 PM
4132	Task	Resolved	Normal	Make the cdf data extraction modular to prepare the different extraction needed	Theo Stassen	03/07/2023 04:52 PM
4133	Task	Resolved	Normal	Adapt the matlab code for cdf data extraction (JUICE sid7)	Theo Stassen	10/07/2023 04:46 PM
4138	Task	Resolved	Normal	Produce a waveform plot of JUICE data using code based on matlab code	Theo Stassen	10/07/2023 04:49 PM
4139	Task	Resolved	Normal	Take the python code of David Pisa instead of Matlab code	Theo Stassen	10/07/2023 04:52 PM
4140	Task	Resolved	Normal	Resolve the problem with epochs to be able to quicklook data	Theo Stassen	10/07/2023 04:56 PM
4145	Task	Resolved	Normal	Create generic log printer (for log file and/or terminal)	Theo Stassen	17/07/2023 11:03 AM
4149	Task	Resolved	Normal	Add systematical logs for each steps (with error excepts, errors, warnings, infos) in calibration part	Theo Stassen	21/07/2023 06:51 PM
4150	Task	Resolved	Normal	Modify the extract data/ epoch part to handle JUICE SID 1/2/3/7 separately	Theo Stassen	21/07/2023 06:52 PM
4151	Task	Resolved	Normal	Reorganisation of kernel construction	Theo Stassen	21/07/2023 06:56 PM
4154	Task	Resolved	Normal	Add systematical logs for each steps (with error excepts, errors, warnings, infos) in evaluation part and the rest	Theo Stassen	28/07/2023 07:00 PM
4155	Task	Resolved	Normal	Create and improve the scripts to have 3 fully independent and functional scripts	Theo Stassen	28/07/2023 07:02 PM
4157	Task	In Progress	Normal	Create interactive version of quicklook, to analyse cdf data	Theo Stassen	18/09/2023 02:02 PM
4158	Task	Resolved	Normal	Find proper tools and solutions fo allow data refresh in quicklook	Theo Stassen	31/08/2023 06:24 PM
4159	Task	Resolved	Normal	Find proper solution for zoom / move of data	Theo Stassen	31/08/2023 06:28 PM
4160	Task	Resolved	Normal	Create a version of quicklook with some parameter buttons that modify spectra	Theo Stassen	31/08/2023 06:29 PM
4163	Task	Resolved	Normal	Fusion the static and interactive quicklooks by using same plot functions (same fig/axis handle) -> make it modular	Theo Stassen	05/09/2023 06:36 PM
4164	Task	Resolved	Normal	Modify the visuals of interactive and static quicklook to be more modular	Theo Stassen	05/09/2023 06:38 PM
4165	Task	Resolved	Normal	Modify deeply the code organisation to have separate part for compare cdfs / interactive plot and one function (plot data) for all plots	Theo Stassen	08/09/2023 06:51 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
4168	Task	Resolved	Normal	Improve and resolve problems / bugs concerning interactive plots	Theo Stassen	18/09/2023 01:55 PM
4171	Task	Resolved	Normal	Add buttons to change the content struct	Theo Stassen	18/09/2023 02:02 PM
4172	Task	Resolved	Normal	Adapt the calibration / evaluation code to allow JUICE files	Theo Stassen	18/09/2023 02:07 PM
4179	Task	Resolved	Normal	Juice files first calibration	Theo Stassen	29/09/2023 06:47 PM
4180	Task	Resolved	Normal	JUICE quicklook analysis	Theo Stassen	29/09/2023 06:45 PM
4181	Task	Resolved	Normal	Code reorganisation to have scripts separately + debugging	Theo Stassen	29/09/2023 06:47 PM
4187	Task	Resolved	Normal	Code Analysis / Investigation / Tests / Experiments in order to have same spectra densities results than matlab code	Theo Stassen	06/10/2023 06:15 PM
4190	Task	Resolved	Normal	Make all the variables of input cdf be in output cdf	Theo Stassen	10/10/2023 06:55 PM
4191	Task	Resolved	Normal	Make the script able to specify freely custom values of any parameters	Theo Stassen	10/10/2023 06:56 PM
4193	Task	Resolved	Normal	register all remaining taks written these last month in a summary document	Theo Stassen	17/10/2023 04:44 PM
4196	Task	Resolved	Normal	Create script for documentation generation (cleaning/creation/show)	Theo Stassen	17/10/2023 04:48 PM
4206	Task	Resolved	Normal	Documentation complete add and upgrade	Theo Stassen	27/10/2023 05:43 PM
4208	Task	Resolved	Normal	First version of a "time extract" method	Theo Stassen	27/10/2023 05:44 PM
4210	Task	Resolved	Normal	Finish complete time extract method	Theo Stassen	06/11/2023 11:57 AM
4211	Task	Resolved	Normal	implement system to check the version of cdf files and take the chosen version of cdfs when doing time extract	Theo Stassen	06/11/2023 11:59 AM
4212	Task	Resolved	Normal	Create 'file name' used in plot resulting of the merge of multiple cdf files	Theo Stassen	06/11/2023 12:01 PM
4214	Task	Resolved	Normal	Create a sh script that use time extract, by specifying a time limits and a cdfs dir	Theo Stassen	06/11/2023 12:03 PM
4215	Task	Resolved	Normal	Modify the extract_cdf methods to have a merge between extract and time extract	Theo Stassen	06/11/2023 12:05 PM
4216	Task	Resolved	Normal	Modify the extract argvs and env var method to handle solo and multiple extract in one time	Theo Stassen	06/11/2023 12:12 PM
4218	Task	Resolved	Normal	Make all the python and sh scripts using freely multiple or solo extract method	Theo Stassen	07/11/2023 06:38 PM
4221	Task	Resolved	Normal	Create a GUI for selection of a range of time to plot	Theo Stassen	13/11/2023 06:50 PM
4223	Task	Resolved	Normal	Find the problem of difference between matlab and python code	Theo Stassen	13/11/2023 06:54 PM
4226	Task	Resolved	Normal	Advances in the comparison between Matlab and python results	Theo Stassen	17/11/2023 06:54 PM
4227	Task	Resolved	Normal	Reorganisation of the python scripts for modularisation	Theo Stassen	17/11/2023 06:57 PM
4228	Task	Resolved	Normal	Make the GUI a general tool, replacing the interact interface	Theo Stassen	17/11/2023 07:01 PM
4229	Task	Resolved	Normal	Update documentation for time/solo extract	Theo Stassen	21/11/2023 06:50 PM
4230	Task	Resolved	Normal	Add a check if we don't find cdfs in the time limits and stop the execution	Theo Stassen	21/11/2023 06:51 PM
4235	Task	Resolved	Normal	Find the cdfs with temperature data in it and test to extract them	Theo Stassen	28/11/2023 06:56 PM
4239	Task	Resolved	Normal	Improvements and bug resolve for temperature spectrum computing and plots	Theo Stassen	06/12/2023 02:15 PM
4240	Task	Resolved	Normal	Professional training about the distribution (and learn of automatisisation tools) of python application	Theo Stassen	06/12/2023 02:17 PM
4241	Task	Resolved	Normal	Software exploration for documentation tools following the professional training.	Theo Stassen	06/12/2023 02:17 PM
4242	Task	Resolved	Normal	Documentation improvements following the professional training	Theo Stassen	06/12/2023 02:18 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
4243	Task	Resolved	Normal	Documentation update, especially following the reorganisation of the python script use and the rework of the doc root	Theo Stassen	06/12/2023 02:19 PM
4244	Task	Resolved	Normal	Bug solving for spectrum computation problems	Theo Stassen	06/12/2023 02:20 PM
4245	Task	Resolved	Normal	Change the code from pyenv environnement to poetry environment	Theo Stassen	06/12/2023 02:23 PM
4256	Task	Resolved	Normal	Gathering and analysis of all remaining open tasks	Theo Stassen	09/01/2024 06:37 PM
4257	Task	Resolved	Normal	Discovering of the Ruff linter and formatter+ experiments	Theo Stassen	09/01/2024 06:38 PM
4258	Task	Resolved	Normal	Creation of a ruff pre commit hook	Theo Stassen	12/01/2024 06:44 PM
4260	Task	Resolved	Normal	Add documentation handle in pre commit hooks	Theo Stassen	12/01/2024 06:45 PM
4261	Task	Resolved	Normal	Discover of pytest and add to pre commit hooks	Theo Stassen	12/01/2024 06:46 PM
4262	Task	Resolved	Normal	Add multiple pytests (init, extract, display)	Theo Stassen	12/01/2024 06:46 PM
4265	Task	Resolved	Normal	Add a system that allows to handle data without the need to compute their spectra	Theo Stassen	19/01/2024 07:00 PM
4266	Task	Resolved	Normal	Research for a method to easily and beautifully document visually the code structure	Theo Stassen	19/01/2024 07:02 PM
4267	Task	In Progress	Normal	Creation of a visual documentation of the code	Theo Stassen	09/02/2024 06:47 PM
4268	Task	Resolved	Normal	Make the writing and initialization parts separated from the others	Theo Stassen	19/01/2024 07:06 PM
4282	Task	Resolved	Normal	Create pdf user documentation (Three first iterations)	Theo Stassen	09/02/2024 06:49 PM
4283	Task	Resolved	Normal	Test the different SID, gather infos from the test, and cross infos with LFR manual	Theo Stassen	09/02/2024 06:51 PM
4284	Task	Resolved	Normal	Modify the code to be coherent in physical units	Theo Stassen	09/02/2024 06:53 PM
4286	Task	Resolved	Normal	Update sphinx documentation for the new code organisation + modifications done when doing the pdf doc	Theo Stassen	09/02/2024 06:56 PM
4287	Task	Resolved	Normal	Add of some modularisation in parameters	Theo Stassen	23/02/2024 06:51 PM
4305	Task	Resolved	Normal	Creation of a table documenting all parameters that can be set by the user, with default value and location	Theo Stassen	23/02/2024 06:52 PM
4306	Task	Resolved	Normal	Improve and simplify some parameters calls and use	Theo Stassen	23/02/2024 06:53 PM
4307	Task	Resolved	Normal	Clean and simplify the config files	Theo Stassen	23/02/2024 06:54 PM
4308	Task	Resolved	Normal	Change the way the datetimes are corrected	Theo Stassen	23/02/2024 06:55 PM
4309	Task	Resolved	Normal	Find how to force the documentation to trigger error even for warnings	Theo Stassen	23/02/2024 06:56 PM
4310	Task	Resolved	Normal	Improve the GUI by adding a embedded window containing the print content	Theo Stassen	23/02/2024 06:57 PM
4311	Task	Resolved	Normal	Develop a little code that for all cdfs in one dir, make a table summarizing their content and quicklook them	Theo Stassen	23/02/2024 07:00 PM
4325	Task	Resolved	Normal	Generate a directory with quicklooks of all cdfs from 2023/2024	Theo Stassen	21/03/2024 12:47 PM
4326	Task	Resolved	Normal	Resolve the problem concerning cdfs epoch extraction for 2024	Theo Stassen	21/03/2024 02:36 PM
4327	Task	Resolved	Normal	Resolve the problem concerning SID3 2024 extraction	Theo Stassen	21/03/2024 02:37 PM
4328	Task	Resolved	Normal	Research to find a standardisation system for logging, and experiments	Theo Stassen	21/03/2024 03:01 PM
4330	Task	Resolved	Normal	Reshape the write log part, with traceback printing, with log name gestion, log message levels, log level variable, etc	Theo Stassen	21/03/2024 03:00 PM
4343	Task	Resolved	Normal	Search different support data (temperatures, reaction wheels, etc)	Theo Stassen	08/04/2024 04:31 PM

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4344	Task	Resolved	Normal	Test the extract of temperatures data	Theo Stassen	08/04/2024 04:32 PM
4345	Task	Resolved	Normal	major change : all the extracted content is now in a dict "input_content"	Theo Stassen	08/04/2024 04:34 PM
4346	Task	Resolved	Normal	Complete reshape of the method to give and prepare data for plot data	Theo Stassen	08/04/2024 04:43 PM
4347	Task	Resolved	Normal	Add the temperature waveform to plot_data, as part of the default quicklook plot	Theo Stassen	08/04/2024 04:49 PM
4360	Task	Resolved	Normal	Create new file prepare_data_for_plot which will handle completely the preparation of data before plotting	Theo Stassen	23/04/2024 03:16 PM
4361	Task	Resolved	Normal	Produce and test the creation of big quicklooks with calibrated data	Theo Stassen	23/04/2024 03:18 PM
4362	Task	Resolved	Normal	Meeting with Alessandro on the calibration results	Theo Stassen	23/04/2024 03:18 PM
4363	Task	Resolved	Normal	Resolve massive problem of performance for SID 2 long files calibration and plot code	Theo Stassen	23/04/2024 03:22 PM
4364	Task	Resolved	Normal	Benchmarking of the code execution for really big files	Theo Stassen	23/04/2024 03:22 PM
4365	Task	Resolved	Normal	Annual Report writing	Theo Stassen	23/04/2024 03:24 PM