

RCS Software and Data Products Overview

This page summarizes the information concerning the RPW Calibration Software (RCS) data products.

Data products summary list

- [Solar Orbiter RPW data products summary list](#) (generated by the RODP, RIVP and RCS)
- [RPW ground test data products summary list](#) (generated by the RGTS)

Key personel

The table below gives the teams involved in the RCS activities.

Team	Institute in charge	People in charge
TDS team	IAP (Prague, Czech Rep.)	Jan Soucek (TDS Lead Col) David Pisa (software engineer)
LFR team	LPP (Palaiseau, France)	Thomas Chust (LFR Lead Col) Bruno Katra (software engineer) Rodrigue Piberne (software engineer)
THR team	LESIA (Meudon, France)	Milan Maksimovic (THR Lead Col) Antonio Vecchio (THR calibration scientist) Qunynh Nhu Nguyen (software engineer)
SCM team	LPC2E (Orléans, France)	Matthieu Kretzschmar (Col) Jean-Yves Brochot (software engineer) Jérémie Pragout (software engineer)
Bias team	IRF-U (Uppsala, Sweden)	Yuri Khotyaintsev (Bias Lead Col) Erik Johansson (software engineer) Niklas Edberg (software engineer)

Software responsibilities

RCS name	Short description	Team in charge	Programming language and version
TDS_CALBA	The TDS CALiBrAtion softwARe produces TDS L1R/L2 data (except L2 waveforms)	TDS	IDL
LFR_CALBUT	The LFR CALiBrAtion software UniT produces LFR L1R/L2 data (except L2 waveform)	LFR	Python
THR_CALBAR	The THR CALiBrAtion softwARe produces THR L1R/L2 data	THR	IDL
SCMCAL	The SCM CALibration software produces L2 waveform data - magnetic (B) component	SCM	IDL
BICAS	The Bias CALibration Software produces L2 waveform data - Low Frequency (LF) electric (E) component	Bias	Matlab

Data products responsibilities

The L1 data files will be produced by the ROC, including the Bias sweeping and currents files.

Data products	Team in charge	Comment
TDS L1R waveforms data - B component	TDS	
TDS L1R waveforms data - E component	TDS	

TDS L2 waveforms data - B component	SCM	Using TDS RCT and transfer functions at receiver level
TDS L2 waveforms data - LF E component	Bias	Using TDS RCT and transfer functions at receiver level
TDS L2 waveforms data - HF E component	TDS	Using TDS RCT and transfer functions at receiver level and THR PA HF RCT at sensor level
LFR L1R waveforms data - B component	LFR	
LFR L1R waveforms data - E component	LFR	
LFR L2 waveforms data - B component	SCM	Using LFR RCT and transfer function at receiver level
LFR L2 waveforms data - LF E component	Bias	Using LFR RCT and transfer function at receiver level
LFR L2 waveforms data - HF E component (Bias failed)	Bias	If Bias failed data are in the same dataset, it should be Bias team.
THR L2 E & B components data	THR	E & B components are in the same CDF file (specific flag will be used to indicate if B sensor is used)

Calibration responsibilities

RPW Calibration Table	Short description	Team in charge
SOLO_CAL_RPW-THR-HFR	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-thr-hfr-data-product	THR
SOLO_CAL_RPW-THR-TNR	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-thr-tnr-data-product	THR
SOLO_CAL_RPW-THR-TNRSA	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-thr-tnrsa-data-product	THR
SOLO_CAL_RPW-THR-ANT-HF_PARAMS	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-thr-ant-hf-params-data-product	THR
SOLO_CAL_RPW-TDS-LFM-CWF-B	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-tds-lfm-cwf-b-data-product	TDS
SOLO_CAL_RPW-TDS-LFM-CWF-E	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-tds-lfm-cwf-e-data-product	TDS
SOLO_CAL_RPW-TDS-LFM-RSWF-B	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-tds-lfm-rswf-b-data-product	TDS
SOLO_CAL_RPW-TDS-LFM-RSWF-E	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-tds-lfm-rswf-e-data-product	TDS
SOLO_CAL_RPW-TDS-SURV-MAMP	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-tds-surv-mamp-data-product	TDS
SOLO_CAL_RPW-TDS-SURV-STAT	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-tds-surv-stat-data-product	TDS
SOLO_CAL_RPW-TDS-SURV-SWF-E	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-tds-surv-swf-e-data-product	LFR
SOLO_CAL_RCT-LFR-VHF	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rct-lfr-vhf-data-product	LFR
SOLO_CAL_RCT-LFR-SCM	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rct-lfr-scm-data-product	LFR
SOLO_CAL_RCT-LFR-BIAS	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rct-lfr-bias-data-product	BIAS
SOLO_CAL_RPW-SCM-SCM-FS-MEB-PFM	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-scm-scm-fs-meb-pfm-data-product	SCM

SOLO_CAL_RPW-BIA	https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/docs/DPDD/html/sections/4-data_product_descriptions.html#solo-cal-rpw-bia-data-product	BIAS