

Summary of changes made to original Cruise Phase plan for RS payload

The Cruise phase plan as built during SOWG#11 ([SOOP Kitchen link](#), soc-internal only) has been cloned and upgraded to a new operational plan ([SOOP Kitchen link](#), status at start SWT24) that is based on the most recent version of Observation Definitions for all instruments.

Apart from this upgrade, SOC also made some changes to the actual content of the timelines, on request by instrument teams or to fix coordinated campaigns that got broken. The changes made are listed below, highlighting some questions in red:

EUI timelines

updated as requested by EUI in their email of 1 March 2019.

Metis timelines

changes based on user manual updates of Cruise Phase schedule: Iss 9.0

Coordinated campaigns: changes made and questions to ITs

Original status in black, [updates in blue](#), [questions in red](#)

Before RSCW1

[2020-06-15T00:00:00 -2020-06-17T00:00:00 \(dates TBC\): Star calibration campaign featuring alpha Leo, coordinated between Metis, EUI/HRI, SPICE and PHI/FDT](#)

RSCW1 - [shifted to new dates 17-22 June 2020](#)

1) RS co-alignment campaign for high-resolution telescopes SPICE, PHI/HRT and EUI/HRI, involving limb pointings to N,S,E,W + disc centre. (8hrs total, driven by SPICE):

[2020-06-09T12:00:00 -2020-06-09T13:00:00 \(EUI\) shifted to new RSCW1 dates and updated to be aligned with PHI period, i.e. 2020-06-20T00:00:00 -2020-06-20T08:00:00 \(as PHI cannot move earlier\)](#)

[2020-06-10T00:00:00 -2020-06-10T07:50:00 \(SPICE\) shifted to new RSCW1 dates and updated to be aligned with PHI period, i.e. 2020-06-20T00:00:00 -2020-06-20T08:00:00 \(as PHI cannot move earlier\)](#)

[2020-06-12T00:00:00 -2020-06-12T08:00:00 \(PHI\) shifted to new RSCW1 dates, i.e. 2020-06-20T00:00:00 -2020-06-20T08:00:00](#)

Metis runs LTCONFIG through the offpointing campaign: [is this a problem?](#)

[Linked as SOOP of type COORD_CALIBRATION on the operational plan.](#)

2) FSI/FDT flatfielding mosaic (driven by Solar Orbiter slews):

PHI and EUI campaigns are already aligned, Metis aligned as well [shifted according to new RSCW1 dates](#)

[Linked as SOOP of type COORD_CALIBRATION on the operational plan.](#)

SPICE does not take part.

SoloHI is doing SHOCK campaign, but still with door closed

RSCW2

1) S/C rolls for Metis and SoloHI in first 3,3h.

Other instruments are either taking dark images or not observing or it does not affect them much (STIX).

[Created a SOOP of type COORD_CALIBRATION on the operational plan to highlight the manoeuvres.](#)

2) FSI/FDT flatfielding mosaic (driven by Solar Orbiter slews):

PHI and EUI campaigns are already aligned

[Linked as SOOP of type COORD_CALIBRATION on the operational plan.](#)

SPICE does not take part.

Metis is running a GLOBAL campaign throughout [we moved it to after the flatfielding campaign](#)

[Would Metis like to participate during the offpoints? \(e.g for straylight\)](#)

RSCW3

No coordinated campaigns.

RSCW4

1) FSI/FDT flatfielding mosaic (driven by Solar Orbiter slews):

PHI and EUI campaigns are already aligned (2021-09-23T06:00:00Z - 2021-09-23T07:30:00)

[Linked as SOOP of type COORD_CALIBRATION on the operational plan.](#)

[Gap in Metis timeline: do they want to participate?](#)

[SPICE is running INTENSITY programme: do they want to move it?](#)

2) SPICE/EUI campaign involving SC slews (8hrs total):

EUI (3 telescopes) and SPICE (mode SPICE_EUI_FLAT) are aligned from 2021-09-24T00:00:00 - 2021-09-24T08:00:00

[Linked as SOOP of type COORD_CALIBRATION on the operational plan.](#)

[Repeat of \(1\) from RSCW1 \(Disc centre + 4 orthogonal limb pointings\)](#)

[PHI is doing HRT calibration at the same time: does it need to be adjusted or moved?](#)

3) EUI campaign driven by SC rolls (6 hrs):

2021-09-24T19:00:00 - 2021-09-25T00:00:00 : [EUI has observations during this period assuming rolls. No other instrument takes it into account. To be discussed.](#)

[Created a SOOP of type COORD_CALIBRATION on the operational plan to highlight the manoeuvres. Currently on EUI takes part in the 'SOOP' with all 3 telescopes, more instruments can be added if needed.](#)

4) RS+IS SOOP to try out first coordinated science campaign

All RS instrument observations are aligned from 26 Sep to 29 Sep 2021

[Linked as SOOP of type L_SMALL_HRES_HCAD_SlowWindConnection on the operational plan.](#)

5) SoloHI calibration driven by SC offpoints

Currently only SoloHI observing at that time: 2021-09-29T02:00:00 - 2021-09-29T07:00:00

[Created a SOOP of type COORD_CALIBRATION on the operational plan to highlight the manoeuvres.](#)

RS co-alignment campaign for high-resolution telescopes SPICE, PHI/HRT and EUI/HRI, involving limb small slews (driven by SPICE + EUI/HRI): [not yet scheduled? or is one of the campaigns above supposed to cover this?](#)

End of Cruise

PHI would like to do a cross-calibration campaign with HMI when it is (close to) crossing the Sun-Earth line.

There is no such opportunity during Cruise (the first crossing happens during NECP) but at the very end of the Cruise Phase, the SC is moving back towards Earth for the Earth GAM. We could potentially schedule a PHI campaign right before the GAM restriction (in which we cannot schedule RS activities) starts, i.e. end of October 2021. **To be discussed during SWT#24 and scheduled if agreed.**