



(v_1.10, 15 September 2023)

CHEOPS GO and DT Programmes - cycle 1+ (SFC 11.12.1)

Prepared by Nicolas BILLOT and Anja BEKKELIEN on behalf of the CHEOPS Science Operations Center

Feasibility Checker Guidelines CHEOPS



Assumptions:

• the Scheduling Feasibility Checker tool (SFC) is installed on your machine

(if not, see installation guide at

https://docs.google.com/document/d/15jERpf5VpLxWxPPT0awtPe5FkpAwtynFTAW9IQUMGic)

• • •	Oracle VM VirtualBox Manager
Tools	New Add Settings Discard Start
cheopsfcvm09 Powered Off	General Name: cheopsfcvm09 Operating System: Red Hat (64-bit) System Base Memory: 4096 MB Boot Order: Floppy, Optical, Hard Disk Acceleration: Nested Paging, PAE/NX, KVM Paravirtualization Preview
	Display Video Memory: 20 MB Graphics Controller: VMSVGA Remote Desktop Server: Disabled Recording: Disabled

Open VirtualBox and Launch the Virtual Machine cheopsfcvm09





3

Feasibility Checker Guidelines CHEOPS

The following window opens



Note that closing the window will stop the server.

UNIVERSITÉ **DE GENÈVE**



cheopsfc

Other...

cheopsfc01

Launch the MPS server by double-clicking the CHEOPS-MPS-SERVER icon. This will open a terminal window.



Launch the SFC by double-clicking the CHEOPS-SFC icon







The SFC window opens within the virtual machine

000					cheopsfcv	m09 [Runnin	g]					
Applications Place	es System	🍯 🙆 💆	1					che	ops_fc	d 🛚 💻	🛛 🖺 🖌 Fri	Mar 24, 3:43 PM
				СН	EOPS SOC I	MPS HMI FO	:					_ • ×
MPS File Edit Anal	ysis View	Help										
🗖 Gantt												
				-						25-03-202	3	
FEASIBILITY	15.00.00	16.00.00	17.00.00	18:00:00	10.00.00	20.00.00	21,00,00	22.00.00	22.00.00	00:00:00	01.00.00	02:00:00
Vicito	15:00:00	10:00:00	17:00:00	18:00:00	19:00:00	20:00:00	21:00:00	22:00:00	23:00:00	00:00:00	01:00:00	02:00:00
VISILS												
SAA												=
Earth Limb												
Stray Light												
< III												>
Observation Reques	t 🗖 Visits 🗖	Feasibility F	Report									csv ₄
Start		Stop			Duration (s	ec)		Planned Eff	iciency (%)		Efficiency i	n Critical Phase
Terminal												
		CHEOFS SOC								🖸 💿 🖿 🖃	0 🗖 🖻 🚇	🏹 🔇 🗣 Left ¥





Edit the observationRequest file to define technical details of your desired observation:

Template input observationRequest files are located in directory Desktop/sfc_intray/: CH_TU2022-10-21T10-00-00_EXT_APP_ObservationRequests_V0001.xml (time critical observations) CH_TU2022-10-21T10-00-00_EXT_APP_ObservationRequests_V0002.xml (non-time critical observations)

Duplicate first the file (keep original copy) and then edit with text editor of your choice







Edit the observationRequest file to define technical details of your desired observation:

Template input observationRequest file located at:

Desktop/sfc_intray/CH_TU2022-10-21T10-00-00_EXT_APP_ObservationRequests_V0001.xml

Duplicate first the file (keep original copy) and then edit with text editor of your choice

Follow instructions from file header.

-> Only edit relevant parameters:

Target_Name Target_Magnitude (parameter renamed, see next slide)

R.A. — Dec Earliest_Start / Latest_End (optional) Transit_Time Transit_Period Visit_Duration Minimum_Effective_Duration Earliest/Latest_Observation_Start Critical phase ranges (optional) -> Save the file after editing

WARNINGS:

This file must contain only one request (fail otherwise) Only the above parameters should be modified. They are identified as such in the file (see header).

Re-organizing the file structure or changing notrecommended parameters will likely make the file ingestion fail!

🧿 📄 o	Dpen 🗸 🖄 Save 📇 🔄 Undo ऌ 🔛 🖷 👘 🏘 🎉				
CH TU2	022-10-21T10onReguests V0001.xml 🗶				
2 yml yor	sion="1 A" encoding="IITE-8"2>				
I	Sion- 1.0 Chooding- 011-0 12	-	->		
			->		
1			->		
!			->		
!	Template Observation Request file v. 11.4.0		->		
			->		
	This file can be ingested in the CHEOPS Feasibility Checker v11.12.1		->		
			->		
	This version of the file contains an example of		->		
	how to set up a time-critical observation		->		
	now to set up a time-critical observation	_	->		
			->		
	ONLY EDIT LINES PRECEDED by ###################################		->		
			->		
			->		
!	If you edit lines NOT preceded by ###################################		->		
	the ingestion of this file in the Feasibility Checker might fail		->		
	(the order of the parameters/lines matters)		->		
			->		
	File prepared by CHEODS SOC - USE - NRT - Oct 10 2022		->		
	File prepared by cheory Soc - ode - NBI - Oct. 10, 2022		->		
		-	->		
Earth Ex	plorer File xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"		-		
<pre>si:noNam</pre>	espaceSchemaLocation="ext app observation requests schema.xsd">				
<earth< td=""><td>Explorer_Header></td><td></td><td></td><td></td><td></td></earth<>	Explorer_Header>				
<fixe< td=""><td>d_Header></td><td></td><td></td><td></td><td></td></fixe<>	d_Header>				
<fi< td=""><td><pre>le_Name>CH_TU2022-10-21T10-00-00_EXT_APP_ObservationRequests_V0001</pre></td><td>me></td><td></td><td></td><td></td></fi<>	<pre>le_Name>CH_TU2022-10-21T10-00-00_EXT_APP_ObservationRequests_V0001</pre>	me>			
<fi< td=""><td>le_Description>Observation requests file</td><td>• •</td><td></td><td></td><td></td></fi<>	le_Description>Observation requests file	• •			
<n0< td=""><td>tes>Template file for CHEOPS observation Request : FeasibilityChecker (phas</td><td>e-1) ar</td><td>nd PHT2 (phas</td><td>e-2)</td><td></td></n0<>	tes>Template file for CHEOPS observation Request : FeasibilityChecker (phas	e-1) ar	nd PHT2 (phas	e-2)	
< 111	lo ClassaTESTZ/Filo Classa				
<fi< td=""><td>le Type>FXT APP ObservationRequests</td><td></td><td></td><td></td><td></td></fi<>	le Type>FXT APP ObservationRequests				
<va< td=""><td>lidity Period></td><td></td><td></td><td></td><td></td></va<>	lidity Period>				
<	Validity Start>UTC=2022-10-21T00:00:00				
<	Validity Stop>UTC=2028-12-31T00:00:00				
<td>alidity_Period></td> <td></td> <td></td> <td></td> <td></td>	alidity_Period>				
<fi< td=""><td>le_Version>0001</td><td></td><td></td><td></td><td></td></fi<>	le_Version>0001				
<\$0	IIICe>				
	>	(ML 🗸	Tab Width: 8 🗸	 Ln 12, Col 51 	INS
		_			_





Edit the observationRequest file to define technical details of your desired observation:

Please note that the two parameters formerly called Target_Vmagnitude and Target_Vmagnitude_Error have been renamed starting from SFC 11.12.1 and are now called Target_Magnitude and Target_Magnitude_Error.

If using pre-existing observationRequest files from earlier versions of the SFC, these parameters must be renamed accordingly. Otherwise, the ingestion into the SFC will fail.





Import ObservationRequest files from local machine to virtual machine:

Alternatively, you may import observationRequest files from your local computer to the virtual machine via the shared folder created when installing the virtual machine

(see https://docs.google.com/document/d/15jERpf5VpLxWxPPT0awtPe5FkpAwtynFTAW9IQUMGic)







Read in the observationRequest file in the Feasibility Checker:

Applications Pla	aces	s System	🔺 🖂 🔽				cheopsf	CVI
	iee.	5 System		1		с	HEOPS SOC	۸ :
MPS File Edit An	alys	is View n	elprosecution					
Ingest Obse	rva	tion Request						
FEASIBILITY						12:00:00		\neg
	0	08:00:00	09:00:00	10:00:00	11:00:00	12:00:00	13:00:00	1
Visits								
SAA								
Earth Limb								
Stray Light								
<u>≺</u>								
🗖 Observation Reque	est	🗖 Visits 🗖	Feasibility R	eport				
Property			Value					





Read in the observationRequest file in the Feasibility Checker:

							cheopsfcvi			
Applications P	Places	System	🖲 🙆 👱							
			ala		_	CI	HEOPS SOC N			
MPS File Edit. A	naiysis servatio	on Request	eip					Default path		
Export visi	tsurran		and a start of the		_	-				×
FEASIBILITY	0	08:00:00	09:00:00	10:00:00	1:	cheops_	_fc 🔯 Desktop	sfc_intray		
Visits	 				1	Places	Name		Size	Modified
	-				Η	🙀 Search	CH_TU2022-1	.0-21T10-00-00_EXT_APP_ObservationRequests_V0001.xml	12.8 KB	15:36
SAA						Recently Used	CH_TU2022-1	.0-21T10-00-00_EXT_APP_ObservationRequests_V0002.xml	9.1 KB	Tuesday
Earth Limb						Cheops_fc Desktop				
					-1	File System				
Stray Light						sf_sfc_shared				
						Documents				
						Music Pictures				≡
						🛅 Videos				
						🗟 Downloads				
< III				1						
🗖 Observation Requ	uest 🖪	Visits	Feasibility R	eport						
Property			Value							
					_					
										* vml ^
										· All
									Cancel	ОК





Read in the observationRequest file in the Feasibility Checker:

Successful ingestion of the observation request file

Applications Places System Image: System	000					cheopsfcv	m09 [Runnin	a]					
CHEOPS SOC MPS HMI FC - > > > MPS File Edit Analysis View Help - - > > Gant 25-03-2023 00:00:00 00:00:	n Applications Plac	es System	🧕 🙆 💆						che	ops_fc	42 🚊	🖁 🖺 🛛 Fri	Mar 24, 3:53 PM
MPS File Edit Analysis View Help Gant 25-03-2023 FEASIBILITY 18:00:00 19:00:00 22:00:00 23:00:00 00:00:00 Visits 19:00:00 18:00:00 19:00:00 22:00:00 23:00:00 00:00:00 00:00:00 SAA Imgestion	[—				CHI	EOPS SOC	MPS HMI FO	:					_ = ×
Gant 25-03-2023 FEASIBILITY 18:00:00 Visits 00:00:00 Visits 15:00:00 SAA 0 SAA 0 Barth Limb Imagestion Stray Light 0bservation Request successfully ingested. Observation Category Time Critical Property Value Observation Category Time Critical Visit Duration (deg) 25:00:00 J3:14920 00:00:00 Declination (deg) 28:3003 Visit Duration (deg) 28:3003 Visit Duration (deg) 28:3003 Visit Duration (deg) 28:3003 Visit Duration (deg) 29:200 Earth Limb 15:00:00 Observation Request Visit Duration (deg) Stray Light 0K	MPS File Edit Anal	ysis View H	Help										
FEASIBILITY 18:00:00 18:00:00 19:00:00 21:00:00 23:00:00 00:00:00 02:00:00 Visits 15:00:00 16:00:00 17:00:00 18:00:00 20:00:00 21:00:00 23:00:00 00:00:00 02:00:00 02:00:00 00:00:00 02:00:00 00:00:00 02:00:00 00:00:00 02:00:00 00:00:00 02:00:00 00:00:00 02:00:00 00:00:00 02:00:00 00:00:00 00:00:00 02:00:00 00:00:00 00:00:00 02:00:00 00:00:00 00:00:00 02:00:00 00:00:00 00:00:00 02:00:00 00:	🗖 Gantt												- 0
FEASIBILITY 18:00:00 00:00:00 00:00:00 00:00:00 01:00:00 02:00:00 Visits 16:00:00 16:00:00 17:00:00 18:00:00 20:00:00 21:00:00 22:00:00 00:00:00 01:00:00 02:00:00 SAA Image: Comparison of the compar	[25-03-202	3	
15:00:00 16:00:00 17:00:00 18:00:00 19:00:00 22:00:00 23:00:00 00:00:00 01:00:00 02:00:00 Visits SAA Image: Comparison of the comparison of th	FEASIBILITY		1		18:00:00					1	00:00:00		
Visits SAA Earth Limb Ingestion Stray Light Observation Request successfully ingested. Observation Request Target Mame 55 Cnc Target Magnitude (mag) 595000 Right Ascension (deg) 283083 Visit Duration (sec) 59260 Earlieut Start (ID) 2456476.91865		15:00:00	16:00:00	17:00:00	18:00:00	19:00:00	20:00:00	21:00:00	22:00:00	23:00:00	00:00:00	01:00:00	02:00:00
SAA Earth Limb Stray Light Observation Request Observation Request Observation Request Observation Request Visit Property Value Observation Category Time Critical Target Name 55 Cnc Target Magnitude (mag) 5.95000 Right Ascension (deg) 133.14920 Declination (deg) 2459873.500192234 Requested Efficiency (%) 50% Tarnsit Time (BjD TT) 2456476.91865	Visits												
Earth Limb Stray Light Observation Request successfully ingested. Observation Request Visits Feasit Observation Category Time Critical Observation Category Time Critical Target Name Target Name Target Magnitude (mag) Sys000 Right Ascension (deg) 133.14920 Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) Tarsit Time (BJD TT) 2456476.91865	SAA												=
Stray Light Observation Request Observation Request Observation Request OK Property Value Observation Category Target Name Target Name Target Magnitude (mag) 5.95000 Right Ascension (deg) 133.14920 Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (Jp) 2456476.91865 Imagestion Imagestion Imagestion Imagestion (deg) 133.14920 Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (Jp) 2456476.91865 Imagestion Imagestion	Earth Limb					Inge	stion	1		_ ×			
Stray Light Stray Light St				Observa	ation Request	t successfull	y ingested.			-			
Cobservation Request Visits Property Value Observation Category Time Critical Target S Target Name S5 Cnc Target Magnitude (mag) 5.95000 Right Ascension (deg) 133.14920 Declination (deg) 28.3083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865	Stray Light		(°	IJ.			, ,						
Cobservation Request Visits Property Value OK Property Value Observation Category Time Critical Target Name 55 Cnc Target Magnitude (mag) 5.95000 Right Ascension (deg) 133.14920 Declination (deg) 28.3083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865													
Observation Request Visits Property Value Observation Category Time Critical Target Name 55 Cnc Target Magnitude (mag) 5.95000 Right Ascension (deg) 133.14920 Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865													
Property Value Observation Category Time Critical ▼ Target	Observation Request	t 🗖 Visits 🗖	Feasit							ок			
Observation Category Time Critical ▼ Target - Target Name 55 Cnc Target Magnitude (mag) 5.95000 Right Ascension (deg) 133.14920 Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865	Property		Value										
▼ Target Image: CHEOPS SOC MPS HMI Image: CHEOPS HMI	Observation Catego	iry	Time Critica	al									
Target Name 55 Cnc Target Magnitude (mag) 5.95000 Right Ascension (deg) 133.14920 Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865 Imagestion Imagestion													
Target Magnitude (mag) 5.95000 Right Ascension (deg) 133.14920 Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865 Imagestion Imagestion	Target Name		55 Cnc										=
Right Ascension (deg) 133.14920 Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865 Ingestion	Target Magnitude	e (mag)	5.95000										
Declination (deg) 28.33083 Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865 Ingestion Ingestion	Right Ascension	(deg)	133.14920										
Visit Duration (sec) 59260 Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865 Ingestion Ingest	Declination (deg))	28.33083										
Earliest Start (JD) 2459873.500192234 Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865 Ingestion Ingesti	Visit Duration (sec)		59260										
Requested Efficiency (%) 50% Transit Time (BJD TT) 2456476.91865 Ingestion Ingestio	Earliest Start (JD)		2459873.50	0192234									
Transit Time (BJD TT) 2456476.91865	Requested Efficiency	y (%)	50%										
Ingestion	Transit Time (BJD TI	Г)	2456476.91	.865									-
[Terminal] CHEOPS SOC MPS HMI Ingestion Image: Cheops soc MPS HMI [Image: Cheops soc MPS HMI] Ingestion Image: Cheops soc MPS HMI Image: Cheops soc MPS HMI			:		Ing	jestion							
	[Terminal]		CHEOPS SOC	MPS HMI	Ingestion	n							
											2 💿 📜 🗗	0 🗖 🖓 😭	🝓 🚫 💽 Left 🕷





Read in the observationRequest file in the Feasibility Checker:

If you obtain a similar error message, it means that you have erroneously modified the observation request file. Restart from the original observation request file following instructions found in the file to solve this issue.







Read in the observationRequest file in the Feasibility Checker:

000					cheopsfcv	m09 [Runnin	g]					
Applications Place	ces System	🍯 🙆 💆						che	ops_fc	4 2 📃	🖁 🖳 🛛 Fri	Mar 24, 3:57 PM
				СН	EOPS SOC I	MPS HMI FO	:					_ • ×
MPS File Edit Anal	ysis View H	elp										
🗖 Gantt												
										25-03-202	3	-
FEASIBILITY		_	_	18:00:00						00:00:00		
	15:00:00	16:00:00	17:00:00	18:00:00	19:00:00	20:00:00	21:00:00	22:00:00	23:00:00	00:00:00	01:00:00	02:00:00
Visits												
SAA												
Earth Limb												
Stray Light	— This	tab co	ontains	the info	ormatio	n of yo	ur obse	ervatio	n reque	est		
						111						
Observation Reques	t 🗖 Visits 🗖	Feasibility R	eport									
Property		Value										
Observation Catego	ory	Time Critic	al									
▽ Target												
Target Name		55 Cnc										
Target Magnitude	e (mag)	5.95000										
Right Ascension	(deg)	133.14920										
Declination (deg)	28.33083										
Visit Duration (sec)		59260										
Earliest Start (JD)		2459873.50	0192234									
Requested Efficienc	y (%)	50%										
Transit Time (BJD T	T)	2456476.91	.865									
[Terminal]		CHEOPS SOC	MPS HMI									
										2 💿 📜 🗗	0	💐 🚫 💽 Left ೫





Feasibility Checker Guidelines CHEOPS

Run the Feasibility Checker

1) Go to "Analysis", and "Feasibility Check..."



2) Set the time interval to be explored for generating the possible visits (valid until 31 Dec 2028).

3) Hit "*OK*"



Guidelines to Scheduling Feasibility Checker 11.12.1

📩 Gantt





Снеоря Feasibility Checker Guidelines



Run the Feasibility Checker

Depending on requested period, computation time may take a few minutes

000					cheopsfcv	m09 [Runnir	g]				-		
Applications Place	es System	🧶 🙆 👱						che	ops_fc	d 8 i	🧏 🖳 🛛 Fri	Mar 24, 3:59	PM
				CH	EOPS SOC	MPS HMI FO	5					_ □	×
MPS File Edit Analy	ysis View H	elp											
🗖 Gantt													3
										25-03-202	3		\land
FEASIBILITY	15.00.00	10.00.00	17.00.00	18:00:00	10.00.00	20.00.00	21.00.00	22.00.00	22.00.00	00:00:00	01.00.00	00.00.00	
	15:00:00	16:00:00	17:00:00	18:00:00	19:00:00	20:00:00	21:00:00	22:00:00	23:00:00	00:00:00	01:00:00	02:00:00	
Visits													
SAA					Progress	Informatio	n		×				≡
Earth Limb		•	Feasibil	ity Check: g	enerating vis	its							
Stray Light			2										
<												>	
🗖 Observation Request	Visits 🗖	Feasit											3
Property	L	Value											\cap
Observation Categor	ry	Time Critic	al										
▽ Target													
Target Name		55 Cnc											Ξ
Target Magnitude	(mag)	5.95000											
Right Ascension (deg)	133.14920											
Declination (deg)		28.33083											
Visit Duration (sec)		59260											
Earliest Start (JD)		2459873.5	00192234										
Requested Efficiency	/ (%)	50%											
Transit Time (BJD TT)	2456476.9	1865										
		1											
[Terminal]		HEOPS SOC	MPS HMI										
													1





Run the Feasibility Checker

Successful generation of the possible visits

Note: Computation is done locally on your computer







Run the Feasibility Checker

Sometimes, no possible visits are found in the requested period. You will then see this error message.

- Your target might not be visible (see next couple of slides), or
- You may want to relax the "*Earliest Start*" / "*Latest End*" parameters in the observation request file.

000		~ - *		cheopsfcvm09 [R	unning]			~	
Applications Pla	aces System 😔	Sõ 👱				cheops_fc	42 🔜	🖺 🛛 Fri Mar 24,	4:10 PM
			CI	EOPS SOC MPS HI	MI FC				- • ×
MPS File Edit Ana	alysis View Help								
🗖 Gantt									
	2024								<u>^</u>
FEASIBILITY	January 2024			1					Feb
	2-2023		07-01-2024	14-01-20	24	21-01-2024		28-01-2024	
Visits									
SAA									≡
Earth Limb				Feasibility Ch	eck	×			
Stray Light		0	Visits generation co (2024-06-01T15:07	omplete: No visits are :21 / 2024-07-01T15:0	feasible for period 07:21)	-			
<	()								
Observation Reque	est 📄 Visits 📄 Fea	sit				OK		CSV+	
Start	Sto	op		Duration (sec)	Plai	nned Efficiency (%)	E	Efficiency in Critica	I Phase I
Transier									
Terminal		OPS SOC M	PS HMI					ſ	
							🔁 💿 🐚 🖃 🖄	 	Left #
									Loncoo



Science Operations Center 19

CHEOPS Feasibility Checker Guidelines

Is my target visible at all with CHEOPS?

If yes, when?

Most relaxed / least constrained case

Allows for high levels of stray light (adequate for bright stars) Over 50% of uninterrupted observation per orbit

Most restrictive / more constrained case

Allows for lower levels of stray light (required for faint stars) Over 80% of uninterrupted observation per orbit (darker shades indicate fewer interruptions)

Sky visibility maps







Снеоря Feasibility Checker Guidelines



Assuming most relaxed case from previous slide (see Observers Manual for details) **CHEOPS**? observed with Monthly sky visibility maps р Ф source ന When can

-75

UNIVERSILE

DE GENÈVE



-75

-75



Explore the result

The Gantt chart shows the possible visits over the requested period, along with associated interruptions due to Earth occultations (Earth Limb in HMI), South Atlantic Anomaly crossings, and unacceptable levels of stray light.

					cheopsfcvm09	[Running]				
Applications Pla	ces System	🍯 🙆 🛃					cheops	s_fc	🛛 🚽 🖻 💼	Fri Mar 24, 4:23 PM
				CI	HEOPS SOC MPS	HMI FC				_ • ×
MPS File Edit Ana	lysis View	Help								
🗖 Gantt										
			1						1	<u></u>
FEASIBILITY	12-2024	10-02-2024	11-02-2024	12-02-2024	13-02-2024	14-02-2024	15-02-2024	16-02-2024 1	18-0)2-2024
		10-02-2024	11-02-2024	12-02-2024	13-02-2024	14-02-2024	13-02-2024	10-02-2024	10-02-2024	13-02-202
Visits										
SAA							11 1111 1111			
Earth Limb										
Stray Light										
(ا	4							-		>
Observation Reque	st 🗖 Visits	Feasibility Re	eport							сяц ^с
Start		Stop		Du	ration (sec)		Planned Efficie	ncy (%)	Efficiency in Cr	itical Phase Ranges
2024-02-01T15:48:00	.000	2024-02-02	T08:16:00.000	59	280.0		60%			
2024-02-02T09:29:00	.000	2024-02-03	T01:57:00.000	59	280.0		59.7%			
2024-02-03T03:09:00	.000	2024-02-03	T19:37:00.000	59	280.0		59.7%			
2024-02-03T20:50:00	.000	2024-02-04	T13:18:00.000	59	280.0		59.1%			
2024-02-04T14:31:00	.000	2024-02-05	T06:59:00.000	59	280.0		60.7%			
2024-02-05T08:11:00	.000	2024-02-06	T00:39:00.000	59	280.0		59.1%			
2024-02-06T01:52:00	.000	2024-02-06	T18:20:00.000	59	280.0		60.4%			
2024-02-06T19:32:00	.000	2024-02-07	T12:00:00.000	59	280.0		59.3%			
2024-02-07T13:13:00	.000	2024-02-08	T05:41:00.000	59	280.0		61.1%		[
2024-02-08T06:54:00	.000	2024-02-08	T23:22:00.000	59	280.0		59.1%			
2024-02-09T00:34:00	.000	2024-02-09	T17:02:00.000	59	280.0		61.4%			
2024-02-09T18:15:00	.000	2024-02-10	T10:43:00.000	59	280.0		59.6%			
2024-02-10T11:56:00	.000	2024-02-11	T04:24:00.000	59	280.0		61.1%			
[Terminal]		CHEOPS SOC	MPS HMI							
									0 🛈 🗗 🤌 🗖) 💷 🖶 💐 🚫 💽 Left ೫





Feasibility Checker Guidelines CHEOPS

Explore the result

You can zoom in/out using "*Control*" + "*Mouse wheel*" (two-finger scroll on touchpads)

• • •	cos Sust					(cheopsfcv	m09 [Run	ning]	_	hoons f	_		i de E		Eri Mar 24	4:24 DM
	ices syste	em 🧧 🔀				01150			50	C	neops_i	C		41 8 –	5 🗳	FII Mai 24	4.24 PM
MDC File Edit Are	lucia Mier	u. Ilala				CHEO	PS SOC N	ирс ни	FC								- " ×
MPS FILE EQIL AND	alysis vie	w нер															
Gantt																	
	-	11-02-2024														10.00	
FEASIBILITY		00.00.00			06.00	·00			12.00.00)		Iı	8.00.00			00.00	2024
-		00.00.00			100.00				12.00.00	C== (1 4)			0.00.00		-	00.00.	
									55 (LNC (14)							
Visits																	
															l		
SAA			I														
Earth Limb																	
Stray Light																	
<	1			П	1											1.2	>
🗖 Observation Reque	st 🗖 Visit	s 🗖 Feasibil	ity Report													csv ₁	
Start		Stop				Duratio	on (sec)			Planned	Efficiency	(%)		Efficiency	in Critica	Phase Ra	nges
2024-02-01T15:48:00	0.000	2024-0	02-02T08:	16:00.000		59280.	0			60%							
2024-02-02T09:29:00	0.000	2024-0	02-03T01:	57:00.000		59280.	0			59.7%							
2024-02-03T03:09:00	0.000	2024-0	02-03T19:	37:00.000		59280.	0			59.7%							
2024-02-03T20:50:00	0.000	2024-0	02-04T13:	18:00.000		59280.	0			59.1%							
2024-02-04T14:31:00	0.000	2024-0	02-05T06:	59:00.000		59280.	0			60.7%							
2024-02-05T08:11:00	0.000	2024-0	02-06T00:	39:00.000		59280.	0			59.1%							
2024-02-06T01:52:00	0.000	2024-0	02-06T18:	20:00.000		59280.	0			60.4%							
2024-02-06T19:32:00	0.000	2024-0	02-07T12:	00:00.000		59280.	0			59.3%							
2024-02-07T13:13:00	0.000	2024-0	02-08T05:	41:00.000		59280.	0			61.1%							
2024-02-08T06:54:00	0.000	2024-0	02-08T23:	22:00.000		59280.	0			59.1%							
2024-02-09T00:34:00	0.000	2024-0	02-09T17:	02:00.000		59280.	0			61.4%							
2024-02-09T18:15:00	0.000	2024-0	02-10T10:	43:00.000		59280.	0			59.6%							
2024-02-10T11:56:00	0.000	2024-0	02-11T04:	24:00.000		59280.	0			61.1%							~
[Terminal]		CHEOPS	SOC MPS	HMI							2						
													٥		010		Left #







Explore the result

You can consult the details of generated visits:

Start / Stop time and (effective) duration

	• • •					ch	eopsfcvm0	9 [Runr	ning]								
	Note: Applications Place	ces System	🝯 🗟 🗾							cheops_f	c		d 🛛 🛛	2 ()	Fri Mar 24,	, 4:24 PM	
						CHEOPS	S SOC MP	'S HMI	FC							_ • ×	
	MPS File Edit Anal	lysis View H	lelp														
	🗖 Gantt																
	[11-0	2-2024													~	
	FEASIBILITY	11-0	2-2024		100.00										12-02-	2024	
		00:0	0:00		06:00:	00			12:00:00			18:00:00			00:00:	00	
				l					55 Cnc (14)								
	Visits																
								1								=	
Invalid visits	SAA	0	I.							I							
	Earth Limb																
are marked in	Stray Light	I NIS T	ab conta	ains t	ne li	ntorn	Πατιοι	n or	n the ge	nerat	ea	poss	ibie	VISITS			
red with an [X]	(1				>	1
	Observation Reques	st 🗖 Visits 🗖	Feasibility Report												CSN [†]	- 0	
	Start		Stop			Duration	(sec)		Planne	ed Efficiency	/ (%)		Efficien	cy in Critica	l Phase Ra	nges	
	2024-02-01T15:48:00.	.000	2024-02-02T08:	16:00.000		59280.0			60%								
	2024-02-02T09:29:00.	.000	2024-02-03T01:	57:00.000		59280.0			59.7%	5] =	
	2024-02-03T03:09:00.	.000	2024-02-03T19:	37:00.000		59280.0			59.7%	5							Only relevant if you
N /1 - 1.	2024-02-03120:50:00.	.000	2024-02-04113:	18:00.000		59280.0			59.1%)							Only relevant in you
Visits	2024-02-04114.31.00.	000	2024-02-05106.	39.00.000		59280.0			59.1%)							have provided
dataila	2024-02-06T01:52:00.	.000	2024-02-06T18:	20:00.000		59280.0			60.4%	,							nhaaa rangaa
details	2024-02-06T19:32:00.	.000	2024-02-07T12:	00:00.000		59280.0			59.3%	-)					<u>.</u>		phase ranges
	2024-02-07T13:13:00.	.000	2024-02-08T05:	41:00.000		59280.0			61.1%	5							
	2024-02-08T06:54:00.	.000	2024-02-08T23:	22:00.000		59280.0		•	59.1%	5	ć						
	2024-02-09T00:34:00.	.000	2024-02-09T17:	02:00.000		59280.0			61.4%		. cr						
	2024-02-09T1(5:00.	.000	2024-02-10110	000.000		59280.0											
	2024-02-2011:56:00.			0.0000			10		59.6%	i.	5 *						
1	<u> </u>	.000	2024-02-160	24:00.000		59280.0	Jura		59.6% 61.1%	Effi							
	S [Terminal]	.000	2024-02-1	24:00.000 HMI		59280.0	DILLOT		59.6% 61.1%	Effi							







Explore the result

In that case, out of the 16 possible visits, only 5 are declared valid as they have observing efficiencies higher than requested.

		-		cheopsfcvm01	[Running]						
Applications Pla	ces System 🕹 汤						¢) 🛃 🖺	Tue Aug 7	, 10:54 AM	cheops_fc
MPS File Edit Ana	lysis View Help			CHEOPS SOC MPS	HMI FC						_ ¤ ×
🗖 Gantt	.,										- 0
FEASIBILITY	019	06:00:00		12:00:00		18:00:00		07-02-20	19		06:00:00
Visits		[x] 55 Cnc (6)		12.00000		120100100		55 Cnc (7)			
SAA	I										
Earth Limb											=
Stray Light											
(<	This t	ab con	tains a l	brief repo	ort on t	he outco	me				×
🗖 Observation Reque	st 🗖 Visits 🗖 Feasibili	ty Report									- 0
Visits Summary Total nº of visits: 1 Valid: 5 Invalid: 1	6										
CHEOPS SOC MP	PS HMI							3	© h # 2) 6 (1) 2 1 2	Left #



Снеорь Feasibility Checker Guidelines



Explore the result (critical Phase Ranges)

If you have ingested an observation request with critical phase ranges

you can explore the observing efficiencies within the pre-defined phase ranges

000						c	heopsfcvn	n09 [Run	ning]										
Applications Place	ces Syste	em 🍯 😪	3 🗾							c	heops_f	c		48		Fri Mar 24	, 4:30 PM		
						CHEO	PS SOC M	IPS HMI	FC								_ • ×		
MPS File Edit Ana	lysis Vie	w Help																	
Ga Ingest Observ	- vation Req	uest																	
Export Visits.		14																	
FFASIBILITY		11-02-2024														12-02	-2024		
		00:00:00			06:00:00 12:00:00						0 18:00:00						00:00:00		
				Г					55 (Cnc (14)									
				L						0.110 (2.17									
Visits																			
								_											
															l				
SAA																			
Earth Limb																			
Stray Light																			
<	ł								1							_	>		
	at 🗖 Visit	s 🗖 Feasibi	lity Report													ß			
			incy nepon	•			()					(0)				1.01 0			
Start		Stop		10.00.000		Duratio	n (sec)			Planned	Emciency	(%)		Emciency	in Critica	I Phase Ra	nges		
2024-02-01115:48:00	.000	2024-0	02-02108:	16:00.000		59280.0				60%									
2024-02-02109:29:00	.000	2024-0	02-03101:	37:00.000		59280.0				50.7%				<u> </u>					
2024-02-03T03.09.00	000	2024-0	02-03119. 02-04T13	18.00.000		59280.0	n			59.1%						LALING BAL			
2024-02-04T14:31:00	.000	2024-	02-05T06:	59:00.000		59280.0	0			60.7%			Sec.						
2024-02-05T08:11:00	.000	2024-0	02-06T00:	39:00.000		59280.0	0 D			59.1%			Star But						
2024-02-06T01:52:00	.000	2024-0	02-06T18:	20:00.000		59280.0	D			60.4%									
2024-02-06T19:32:00	.000	2024-0	02-07T12:	00:00.000		59280.0	D			59.3%									
2024-02-07T13:13:00	.000	2024-0	02-08T05:	41:00.000		59280.0	D			61.1%									
2024-02-08T06:54:00	.000	2024-0	02-08T23:	22:00.000		59280.0	D			59.1%									
2024-02-09T00:34:00	.000	2024-0	02-09T17:	02:00.000		59280.0	D			61.4%									
2024-02-09T18:15:00	.000	2024-0	02-10T10:	43:00.000		59280.0	D			59.6%									
2024-02-10T11:56:00	.000	2024-0	02-11T04:	24:00.000		59280.0	D			61.1%							~		
[Terminal]		CHEOPS	SOC MPS	НМІ															
													2	0 📜 🗗		1 🔇 🎼 🚽	🛃 Left ೫		



Снеоря Feasibility Checker Guidelines



Explore the result

In that particular case, the requested efficiency in both phases is 50%. The observed efficiency in the first phase is only 31% but since *<Fulfil_all_Phase_Ranges> = FALSE* in the input file, the visit is still valid.

			cheopsfcvm09 [Ru	nning]			
Applications Places Sy	/stem 🧕 👩 🗾			cheops_fc		de 🚅 🖺	Fri Mar 24, 4:30 PM
		CH	IEOPS SOC MPS HM	II FC			_ = ×
		Phase Ran	ges Efficiency			_ = ×	
Start	Stop	Phase Start	Phase Stop	Requested Efficiency (%)	Planned Effici	ency (%)	- 0
04-02-2024 17:03:00	04-02-2024 18:01:00	0.94300	0.99900	50%	31%		
04-02-2024 18:04:00	04-02-2024 19:03:00	0.00100	0.05700	50%	84.7%		12-02-2024
							00.09:00
							=
Stray Light							
<							>
🗖 Observation Request 📃 Vi	isits 🧮 Feasibility Report						
							csv ₊
Start	Stop	Dur	ration (sec)	Planned Efficiency (%)	Efficiency in Critic	cal Phase Ranges
Start 2024-02-01T15:48:00.000	Stop 2024-02-02T08:16:0	Dur 00.000 592	ration (sec) 280.0	Planned Efficiency (60%	%)	Efficiency in Critic	cal Phase Ranges
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0	00.000 592 00.000 592	ration (sec) 280.0 280.0	Planned Efficiency (60% 59.7%	%)	Efficiency in Critic	cal Phase Ranges
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0	Dur 00.000 592 00.000 592 00.000 592	ration (sec) 280.0 280.0 280.0	Planned Efficiency (60% 59.7% 59.7%	%)	Efficiency in Critic	Cal Phase Ranges
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0	Dur 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592	ration (sec) 280.0 280.0 280.0 280.0	Planned Efficiency (60% 59.7% 59.7% 59.1%	%)	Efficiency in Critic	Cal Phase Ranges
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-05T06:59:0	Dur 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592	ration (sec) 280.0 280.0 280.0 280.0 280.0 280.0	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7%	%)	Efficiency in Critic	Cal Phase Ranges
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000 2024-02-05T08:11:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-05T06:59:0 2024-02-06T00:39:0	Dur 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592	ration (sec) 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1%	%)	Efficiency in Critic	Image: Cal Phase Ranges
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000 2024-02-05T08:11:00.000 2024-02-06T01:52:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-05T06:59:0 2024-02-06T00:39:0 2024-02-06T18:20:0	Dur 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592	ration (sec) 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 60.4%	%)	Efficiency in Critic	Image: Call Phase Ranges Image: Call Pha
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000 2024-02-05T08:11:00.000 2024-02-06T01:52:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-05T06:59:0 2024-02-06T00:39:0 2024-02-06T18:20:0 2024-02-07T12:00:0	Dur 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592	ration (sec) 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 60.4% 59.3%	%)	Efficiency in Critic	Image: Call Phase Ranges Image: Call Pha
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000 2024-02-05T08:11:00.000 2024-02-06T01:52:00.000 2024-02-06T19:32:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-05T06:59:0 2024-02-06T00:39:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:1 2024-02-08T05:41:0	Dur 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592	ration (sec) 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0 280.0	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 60.4% 59.3% 61.1%	%)	Efficiency in Critic	Image: Call Phase Ranges Image: Call Pha
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000 2024-02-05T08:11:00.000 2024-02-06T01:52:00.000 2024-02-06T19:32:00.000 2024-02-06T19:32:00.000 2024-02-07T13:13:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-05T06:59:0 2024-02-06T00:39:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-08T05:41:0 2024-02-08T05:41:0	Dur 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592 00.000 592	ration (sec) 280.0 28	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 60.4% 59.3% 61.1% 59.1%	%)	Efficiency in Critic	Image: Call Phase Ranges Image: Call Pha
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-05T08:11:00.000 2024-02-06T01:52:00.000 2024-02-06T19:32:00.000 2024-02-07T13:13:00.000 2024-02-08T06:54:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-05T06:59:0 2024-02-06T00:39:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-08T05:41:0 2024-02-08T23:22:0 2024-02-09T17:02:0	Dur 00.000 592	ration (sec) 280.0 28	Planned Efficiency (60% 59.7% 59.1% 60.7% 59.1% 60.4% 59.3% 61.1% 59.1% 61.4%	%)	Efficiency in Critic	Image: Call Phase Ranges Image: Call Pha
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000 2024-02-05T08:11:00.000 2024-02-06T01:52:00.000 2024-02-06T19:32:00.000 2024-02-06T19:32:00.000 2024-02-07T13:13:00.000 2024-02-08T06:54:00.000 2024-02-09T0:34:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-05T06:59:0 2024-02-06T00:39:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-08T05:41:0 2024-02-08T23:22:0 2024-02-09T17:02:0 2024-02-09T17:02:0	Dur 00.000 592	ration (sec) 280.0 28	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 61.1% 59.1% 61.4% 59.6%	%)	Efficiency in Critic	Image: Call Phase Ranges Image: Call Pha
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000 2024-02-05T08:11:00.000 2024-02-06T01:52:00.000 2024-02-06T19:32:00.000 2024-02-06T19:32:00.000 2024-02-07T13:13:00.000 2024-02-08T06:54:00.000 2024-02-09T013:4:00.000 2024-02-09T18:15:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-06T00:39:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-08T05:41:0 2024-02-08T23:22:0 2024-02-09T17:02:0 2024-02-10T10:43:0 2024-02-10T10:43:0	Dur 00.000 592 <td< td=""><td>ration (sec) 280.0 28</td><td>Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 61.1% 59.6% 61.1%</td><td>%)</td><td>Efficiency in Critic</td><td>Image: Call Phase Ranges Image: Call Pha</td></td<>	ration (sec) 280.0 28	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 61.1% 59.6% 61.1%	%)	Efficiency in Critic	Image: Call Phase Ranges Image: Call Pha
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-05T08:11:00.000 2024-02-06T01:52:00.000 2024-02-06T19:32:00.000 2024-02-07T13:13:00.000 2024-02-08T06:54:00.000 2024-02-09T00:34:00.000 2024-02-09T18:15:00.000 2024-02-10T11:56:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-06T00:39:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-08T05:41:0 2024-02-08T23:22:0 2024-02-09T17:02:0 2024-02-10T10:43:0 2024-02-10T10:43:0	Dur 00.000 592 <td< td=""><td>ration (sec) 280.0</td><td>Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 61.1% 59.6% 61.1%</td><td>%)</td><td>Efficiency in Critic</td><td>Cal Phase Ranges</td></td<>	ration (sec) 280.0	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 61.1% 59.6% 61.1%	%)	Efficiency in Critic	Cal Phase Ranges
Start 2024-02-01T15:48:00.000 2024-02-02T09:29:00.000 2024-02-03T03:09:00.000 2024-02-03T20:50:00.000 2024-02-04T14:31:00.000 2024-02-06T01:52:00.000 2024-02-06T19:32:00.000 2024-02-06T19:32:00.000 2024-02-09T00:34:00.000 2024-02-09T18:15:00.000 2024-02-10T11:56:00.000 2024-02-10T11:56:00.000	Stop 2024-02-02T08:16:0 2024-02-03T01:57:0 2024-02-03T19:37:0 2024-02-04T13:18:0 2024-02-06T00:39:0 2024-02-06T00:39:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-06T18:20:0 2024-02-08T05:41:0 2024-02-08T05:41:0 2024-02-08T23:22:0 2024-02-10T10:43:0 2024-02-10T10:43:0 2024-02-11T04:24:0	Dur 00.000 592 <td< td=""><td>ration (sec) 280.0</td><td>Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 60.4% 59.3% 61.1% 59.6% 61.1%</td><td>%)</td><td>Efficiency in Critic</td><td>Cal Phase Ranges</td></td<>	ration (sec) 280.0	Planned Efficiency (60% 59.7% 59.7% 59.1% 60.7% 59.1% 60.4% 59.3% 61.1% 59.6% 61.1%	%)	Efficiency in Critic	Cal Phase Ranges





Explore the result

Detailed list of visit can be exported to an ascii file for further analysis

000						c	cheopsfcv	m09 [Run	ning]									
Applications Pla	ices Syste	em 🧕 🗟	3 🗾							c	heops_f	c		48 🚊		Fri Mar 24,	4:31 PM	
						CHEO	PS SOC N	MPS HMI	FC								_ ¤ ×	
MPS File Edit Ana	alysis Vie	w Help																
Export Visits	wation Reg	uest															- 0	
EEASIBU	-	11-02-2024														12-02	2024	
PEASIDIENT		00:00:00			06:00	:00			12:00:00)		18	:00:00			00:00:	00	
	1 '								55 (Cpc (14)								
				l					550									
Visits																		
								_										
SAA																		
Earth Limb																		
Stray Light																		
<																		
	-+	- Faarihi	lite - Domont													•		
	st 🔄 visit	s Feasibi	nty Report													csv ₊		
Start		Stop				Duratio	n (sec)			Planned	Efficiency	(%)		Efficiency	in Critica	al Phase Ra	nges	
2024-02-01T15:48:00	0.000	2024-	02-02T08:	16:00.000		59280.0	0			60%								
2024-02-02T09:29:00	0.000	2024-	2024-02-03T01:57:00.000			59280.0			59.7%] =	
2024-02-03T03:09:00	0.000	2024-	02-03T19:	37:00.000		59280.0				59.7%								
2024-02-03T20:50:00	0.000	2024-	02-04T13:	18:00.000	59280.0				59.1%									
2024-02-04114:31:00	0.000	2024-	02-05106:	59:00.000	59280.0				00.7% 50.1%									
2024-02-05108:11:00	0.000	2024-	2024-02-06100:39:00.000			59280.0			59.1%									
2024-02-06T19-32:00	000	2024-	2024-02-06118:20:00.000			59280.0				59.3%								
2024-02-00113:32:00	000	2024	2024-02-07112:00:00.000			59280.0			61 1%									
2024-02-07115:15:00 2024-02-08T06:54:00	000	2024	2024-02-08105:41:00.000			59280.0			59.1%									
2024-02-09T00:34:00	0.000	2024-	2024-02-09117:02:00.000			59280.0				61.4%								
2024-02-09T18:15:00	0.000	2024-	02-10T10:	43:00.000		59280.0	0			59.6%								
2024-02-10T11:56:00	0.000	2024-	02-11T04:	24:00.000		59280.0	0			61.1%								
[Terminal]		CHEOPS	SOC MPS	HMI						ſ	-							
										-				o 📜 🗗	0 🗆 🖸	1	€ Left ¥	





Explore the result

The output file is saved to Desktop/sfc_outtray/







Pycheops' function make_xml_files is a community-developed tool to generate XML files for input to the SFC, based on a data table for multiple observing requests provided by the user. You may use this tool at your own risk, with caveats and warnings detailed in the documentation linked at https://www.cosmos.esa.int/web/cheops-guest-observers-programme/scheduling-feasibility-checker.

