

Open a terminal and run the following commands (USERNAME as provided by the SOC - UNIGE):

ssh -X USERNAME@isdc-nx00.isdc.unige.ch
ssh -X USERNAME@tichpsmps00
/cheops_sw/mps_test/bin/mps_client &

(-Y option for Mac users) <u>Warning</u>: copy from pdf to paste onto the terminal does not always work as expected!

The following window opens

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Copying and editing the observationRequest file:

You have to copy these template observationRequest files to your HOME directory to be able to edit then

cp /cheops_sw/centos6.6/rev_01/mps/r_7.0.1/mps-aux-dev-data/feasibility/obsReq_template*.xml ~/. cd ~

ls obsReq_template*.xml

nedit obsReq_template_noPhaseRange.xml & (or vi obsReq_template_noPhaseRange.xml)

Edit this xml file to specify the technical details of your planned observation. Relevant parameters:

Target name R.A. — Dec Earliest Start / Latest End (optional) Transit central time Transit period Visit duration Observing efficiency 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 not-recommended parameters will likely make the file ingestion fail!

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Read in the observationRequest file in the Feasibility Checker:

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Read in the observationRequest file in the Feasibility Checker:

Navigate the menu to read in the files from your HOME directory

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Read in the observationRequest file in the Feasibility Checker:

Successful ingestion of the observation request file

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Read in the observationRequest file in the Feasibility Checker:

If you obtain this 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.

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Run the Feasibility Checker

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

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Set the time interval to be explored for generating the possible visits

Caveat: only the period 01/01/2019 — 01/01/2020 can be explored in this version the tool (will be extended in future version)

CHEOPS SOC MPS HM MPS File Edit Analysis View Help Gantt 19-03-2017 FEASIBILITY 18:00:00 00-00-00 14:00:00 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 00:00:00 02:00:00 03 Visits SAA Visit Generation Input Earth Occultation Please select the visit generation period and the sampling period Stray Light -01-2019 00:00:00 UTC Generation S 16-01-2019 00:00:00 UT OK Cancel Observation Request
Visits
Feasibility Report Value Property Larce Target Name 55 Cnc e Target Vmagnitude (mag) 5.950 133.149 Right Ascension (deg) 28.331 Declination (deg) Priority 1 2592000000 Visit Duration (sec) Requested Efficiency (%) 50%





Hit "*OK*"

Run the Feasibility Checker

Successful generation of the possible visits

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Run the Feasibility Checker

Sometimes, no possible visits are found in the requested period. You will then see this error message. Your source might not be visible (see next couple of slides), or you should relax the "*Earliest Start*" / "*Latest End*" parameters in the observation request file.

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Is my target visible at all with CHEOPS?

If yes, when?

Most permissive / favourable case

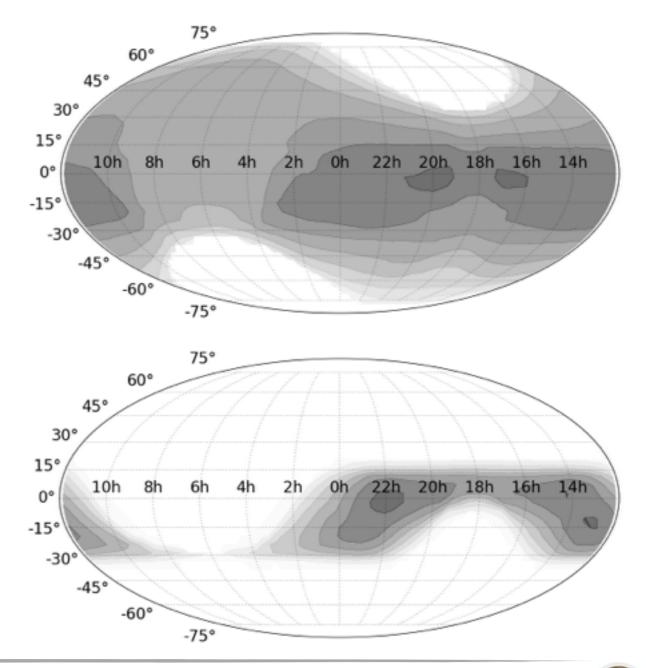
Allows for high levels of stray light (adequate for bright stars) Over 50% of uninterrupted observation per orbit

Most restrictive / unfavourable case

Allows for lower levels of stray light (required for faint stars) Over 80% of uninterrupted observation per orbit

Sky visibility maps

(darker shapes indicate fewer interruptions)





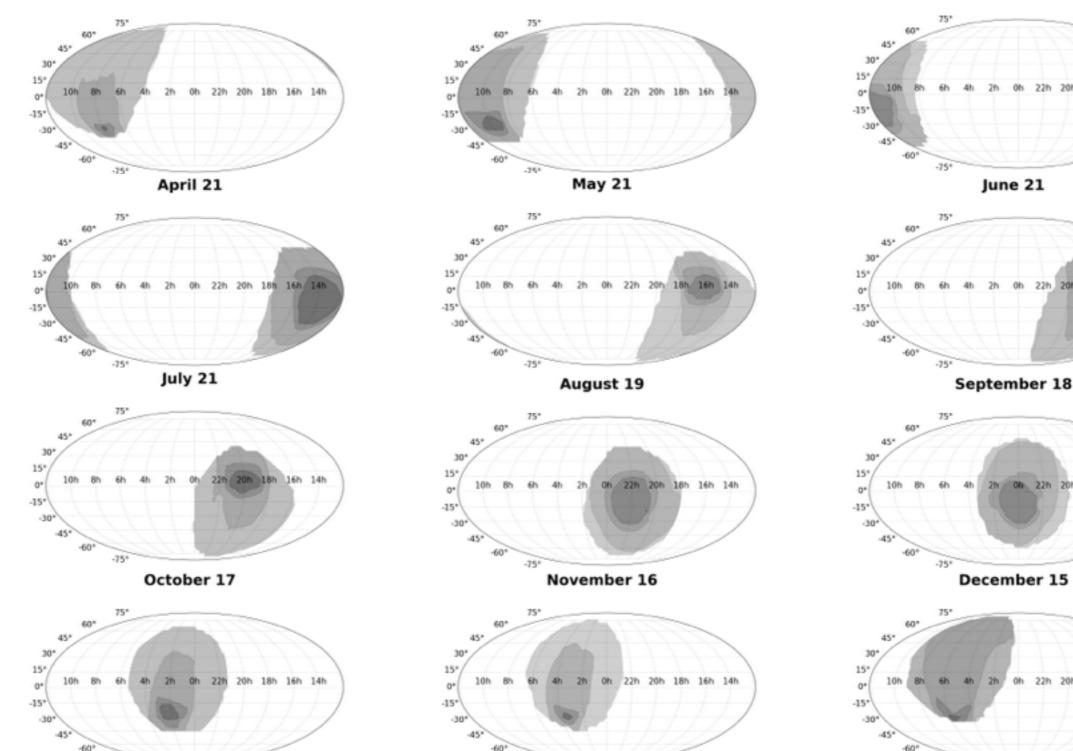




Feasibility Checker Guidelines

February 21

January 21



observed with CHEOPS? Monthly sky visibility maps a source be When can

UNIVERSITÉ DE GENÈVE -75

CHEOPS Open Time Workshop — 26-27th July, Schloss Seggau

Nicolas BILLOT

14h

20h 18h 16h 14h

March 21

Explore the result

The Gantt chart shows the possible visits over the requested period, along with associated interruptions due to Earth occultations and South Atlantic Anomaly crossings

MPS File Edit	Analyci	is Viou	Help															
Gantt	Anarys	is <u>v</u> ien	пер			 												
FEASIBILITY	y 201	9				 06-01	-2019								11	3-01-20	19	
Visits																		
SAA			11	11-1		Ш	1	11	11			11	Ш		1111			T
Earth Occultation						1111	1111	1111		1111		1111		1111	1111		1111	Ш
Stray Light																		
	1																	
-																		
Observation Re Start	quest			ibility R	leport	Duratio	n (sec)			Vicit F	fficiency	(%)		Phace	Ranger	Efficien		
Start			Stop			Duratio				_	fficiency	r (%)		Phase	Ranges	5 Efficien		
	0:00			019 23:1	L0:00	Duratio 30000.0)			70%	fficiency	r (%)		Phase	Ranges			
Start 01-01-2019 14:50	0:00		Stop 01-01-2	019 23:1	10:00	30000.0)			_	fficiency	r (%)		Phase	Ranges			
Start 01-01-2019 14:50 02-01-2019 08:30	0:00 :00 :00		Stop 01-01-2 02-01-2	019 23:1 019 16:5 019 10:3	L0:00 50:00 80:00	30000.0 30000.0)			70% 62%	fficiency	(%)		Phase	Ranges			
Start 01-01-2019 14:50 02-01-2019 08:30 03-01-2019 02:10	0:00 :00 1:00 1:00		Stop 01-01-2 02-01-2 03-01-2	019 23:1 019 16:5 019 10:3 019 04:1	10:00 50:00 80:00 10:00	30000.0 30000.0 30000.0)			70% 62% 58%	fficiency	r (%)		Phase	Ranges			
Start 01-01-2019 14:50 02-01-2019 08:30 03-01-2019 02:10 03-01-2019 19:50	0:00 :00 1:00 1:00		Stop 01-01-2 02-01-2 03-01-2 04-01-2	019 23:1 019 16:5 019 10:3 019 04:1 019 21:5	10:00 50:00 80:00 10:00 50:00	30000.0 30000.0 30000.0 30000.0))))			70% 62% 58% 66%	fficiency	r (%)		Phase	Ranges		•	
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Caveat: Threshold on acceptable straylight levels is not yet representative





Explore the result

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

Gantt														
	06-01-20)19												
FEASIBILITY	06-01-20					1				07-01-2019				
	00:00:00			06:00	:00	12:00:00	18:00:0			00:00:00	06:00:00	12:0	00:00	
Visits		55 (Cnc e	(7)				55 (Cnc e ((8)			5	5 Cnc
SAA			1						1					1
Earth Occultation														
Stray Light														
Observation Request	🗖 Visits 🗖	Feasi	ibility	Repo	rt									
Observation Request	Uisits		ibility	Repo	rt	Duration (sec)		Vis	it Effic	ciency (%)	Phase Range	s Efficien	су	
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Observation Request	Sto 01	op	019 23	8:10:0	D			_	6	ciency (%)	Phase Range			
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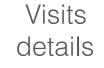


Explore the result

You can consult the details of generated visits:

Start / Stop time and (effective) duration

🗖 Gantt																	
FEASIBILITY	06-01-2019									In	7-01-201	9					-
	00:00:00		06:00	00:00		12:00:00	1	18:00:00)		0:00:00	2	06:00:00	12:	00:00		
Visits	5	5 Cnc e	(7)						55 Ci	nc e (8))				5	5 Cnc	
SAA		1							1	T.						1	
Earth Occultation																	
Stray Light																	1 ×
	This ta	h cc	onta	ains	s the	inform	natio	n or	n th	eа	ener	ated	possibl	e vis	its		
	1110 เน		// 110				ano	11 01	, ,,,	c g	Chici	aicu	possible		110		
	1																
	L.																
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Observation Request	Visits 🗖 Fe	asibility	y Repo	ort													
_	Visits Fe	asibility	y Repo	ort	D	uration (sec)			Visit	Efficie	ency (%)		Phase Range	es Efficie	ncy		
Observation Request	Stop	asibility				luration (sec)			Visit 70%		ency (%)		Phase Rang		ncy		
Observation Request	Stop 01-01		3:10:0	0	3				_		ency (%)		Phase Rang		-		
Observation Request Start 01-01-2019 14:50:00	Stop 01-01 02-01	2019 2	3:10:0 6:50:0	0	3	0000.0			70%		ency (%)		Phase Rang				
Observation Request Start 01-01-2019 14:50:00 02-01-2019 08:30:00	Stop 01-01 02-01 03-01	2019 2	3:10:0 6:50:0 0:30:0	0	3 3 3	0000.0			70% 62%		ency (%)		Phase Range				
Observation Request Start 01-01-2019 14:50:00 02-01-2019 08:30:00 03-01-2019 02:10:00	Stop 01-01 02-01 03-01 04-01	2019 2 2019 1 2019 1	3:10:0 6:50:0 0:30:0 4:10:0	0	3 3 3 3	0000.0 0000.0 0000.0			70% 62% 58%		ency (%)		Phase Rang				Only relevant if yo
Observation Request Start 01-01-2019 14:50:00 02-01-2019 08:30:00 03-01-2019 02:10:00 03-01-2019 19:50:00	Stop 01-01 02-01 03-01 04-01 04-01	2019 2 2019 1 2019 1 2019 1	3:10:0 6:50:0 0:30:0 4:10:0 1:50:0	0	3 3 3 3 3	0000.0 0000.0 0000.0 0000.0			70% 62% 58% 66%		ency (%)		Phase Range				
Observation Request Start 01-01-2019 14:50:00 02-01-2019 08:30:00 03-01-2019 02:10:00 03-01-2019 19:50:00 04-01-2019 13:30:00	Stop 01-01 02-01 03-01 04-01 04-01 05-01	2019 2 2019 1 2019 1 2019 0 2019 0	3:10:0 6:50:0 0:30:0 4:10:0 1:50:0 5:30:0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3	0000.0 0000.0 0000.0 0000.0 0000.0			70% 62% 58% 66% 68%		ency (%)		Phase Range				Only relevant if yo have provided
Observation Request Start 01-01-2019 14:50:00 02-01-2019 08:30:00 03-01-2019 02:10:00 03-01-2019 19:50:00 04-01-2019 13:30:00 05-01-2019 07:10:00 06-01-2019 00:50:00	Stop 01-01 02-01 03-01 04-01 04-01 05-01 06-01	2019 2 2019 1 2019 1 2019 0 2019 2 2019 2 2019 1 2019 0	3:10:0 6:50:0 0:30:0 4:10:0 1:50:0 5:30:0 9:10:0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3	0000.0 0000.0 0000.0 0000.0 0000.0 0000.0			70% 62% 58% 66% 68% 64%		ency (%)		Phase Range		••		have provided
Observation Request Start 01-01-2019 14:50:00 02-01-2019 08:30:00 03-01-2019 02:10:00 03-01-2019 19:50:00 04-01-2019 13:30:00 05-01-2019 07:10:00	Stop 01-01 02-01 03-01 04-01 04-01 05-01 06-01	2019 2 2019 1 2019 1 2019 0 2019 0 2019 2 2019 1	3:10:0 6:50:0 0:30:0 4:10:0 1:50:0 5:30:0 9:10:0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3	0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0			70% 62% 58% 66% 68% 64% 60%		ency (%)		Phase Range				
Observation Request Start 01-01-2019 14:50:00 02-01-2019 08:30:00 03-01-2019 02:10:00 03-01-2019 19:50:00 04-01-2019 13:30:00 05-01-2019 07:10:00 06-01-2019 00:50:00 06-01-2019 18:30:00	Stop 01-01 02-01 03-01 04-01 04-01 05-01 06-01	2019 2 2019 1 2019 1 2019 0 2019 2 2019 2 2019 1 2019 0	3:10:0 6:50:0 0:30:0 4:10:0 1:50:0 5:30:0 9:10:0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3	0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0			70% 62% 58% 66% 68% 64% 60% 70%				Phase Range				have provided
Observation Request Start 01-01-2019 14:50:00 02-01-2019 08:30:00 03-01-2019 02:10:00 03-01-2019 19:50:00 04-01-2019 13:30:00 05-01-2019 07:10:00 06-01-2019 00:50:00	Stop 01-01 02-01 03-01 04-01 04-01 05-01 06-01	2019 2 2019 1 2019 1 2019 0 2019 2 2019 2 2019 1 2019 0	3:10:0 6:50:0 0:30:0 4:10:0 1:50:0 5:30:0 9:10:0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3	0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0			70% 62% 58% 66% 68% 64% 60% 70%						••		have provided





CHEOPS Open Time Workshop — 26-27th July, Schloss Seggau



Explore the result

In that case, out of the 20 possible visits, 20 have observing efficiencies higher than requested, thus making them all *valid*

MDC Ella Edit /	hasher	is Mien	, Hala				2	CHEOP	S SOC MP	S HMI								
MPS File Edit &	Anarys	is <u>v</u> iew	п Пеір												 			
FEASIBILITY	y 201	.9					06-01	-2019							 1	3-01-202	19	
Visits	þ																	
SAA		1	11	11-1		11	11	1	11	Ш	- 11			111	1111	111		
Earth Occultation	1111						Ш	1111	11111						1111		1111	Ш
Stray Light	1																	
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a				↓			_											_
Observation Rec	uest	🗖 Visits	Feas	sibility R	Report													
Visits Summar				,														
Total nº of visits	-																	
Valid:	20																	
Invalid:	0																	





Explore the result (critical Phase Ranges)

If you have ingested an observation request with critical phase ranges (e.g. obsReq_template_twoPhaseRange.xml) You can explore the observing efficiencies within the pre-defined phase ranges

000				X CHEOPS	SOC MPS HMI				
MPS File Edit An	alysis <u>V</u> iev	v <u>H</u> elp							
Gantt									
FEASIBILITY					18:00:00				
	15:00:0	00 16:0	00:00	17:00:00	18:00:00	19:00:00	20:00:00	21:00:00	22:00:00
Visits					55 Cn	c e (1)			
SAA									
Earth Occultation									
Stray Light									
4									
Observation Requ	est 🗖 Visit	s 🗖 Feasibility I	Report						
Start		Stop		Duration (sec)		Visit Efficiency (%	6) P	ase Ranges Efficien	icy
15-01-2019 14:40:0	0	15-01-2019 23:	00:00	30000.0		68%			
								are with the second of the sec	New Walking





Explore the result

In that particular case, the requested efficiency in the phase range is 90%, while the observed efficiency is 0% (i.e. the phase range is entirely filled with interruptions)

This visit is therefore not valid as the requested efficiency within the phase range cannot be met

MPS File Edit #	Analysis	View Help			X CH	EOPS SOC MPS HMI				
Gantt										
FEASIBILITY	11	5:00:00	16:00:00	0	17:00:00	18:00:00 18:00:00	19:00:00	20:00:00	21:00:00	22:00:00
Visits							Cnc e (1)			
SAA										
Earth Occultation										
Stray Light	1					X Phase Rang	es Efficiency			
	1 14	Start 15-01-2019 22:50:00		Stop 0 15-01-2019 23:00:00		Phase Start 0.950	Phase Stop 0.970	Expected Effic	ienc Efficiency (%)	
Observation Rec	uest 🗖	Visits 🗖 Feasi	ibility Repo	ort						2
Visits Summary Total nº of visits: Valid: Invalid:	у 🛓		Ť							



