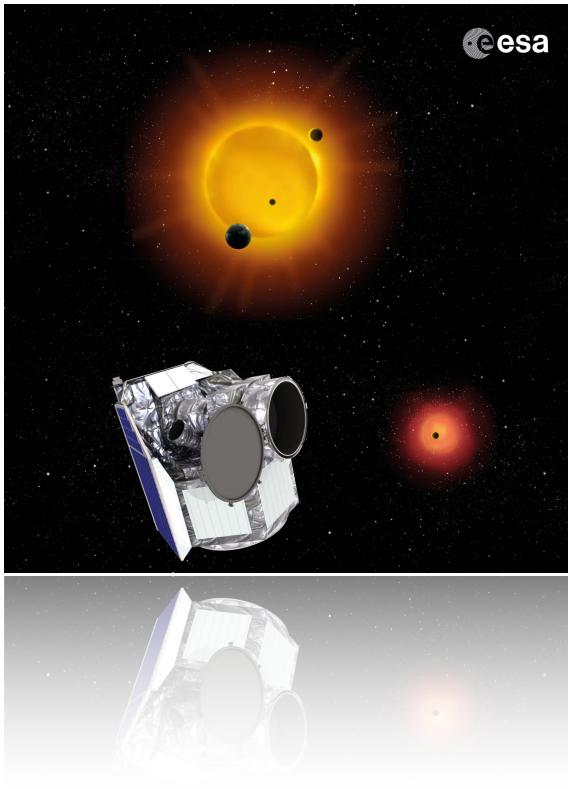


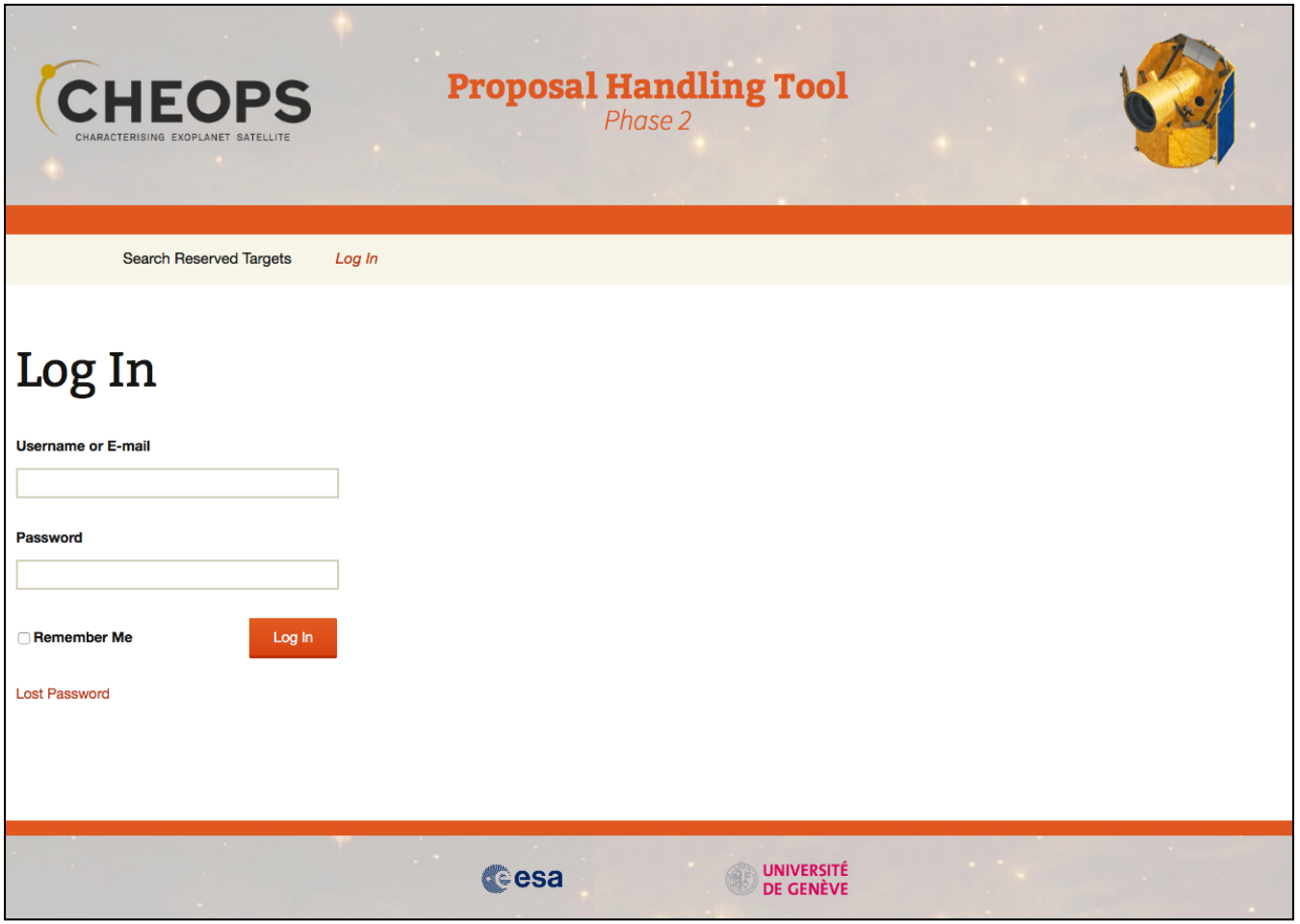
Phase 2 preparation

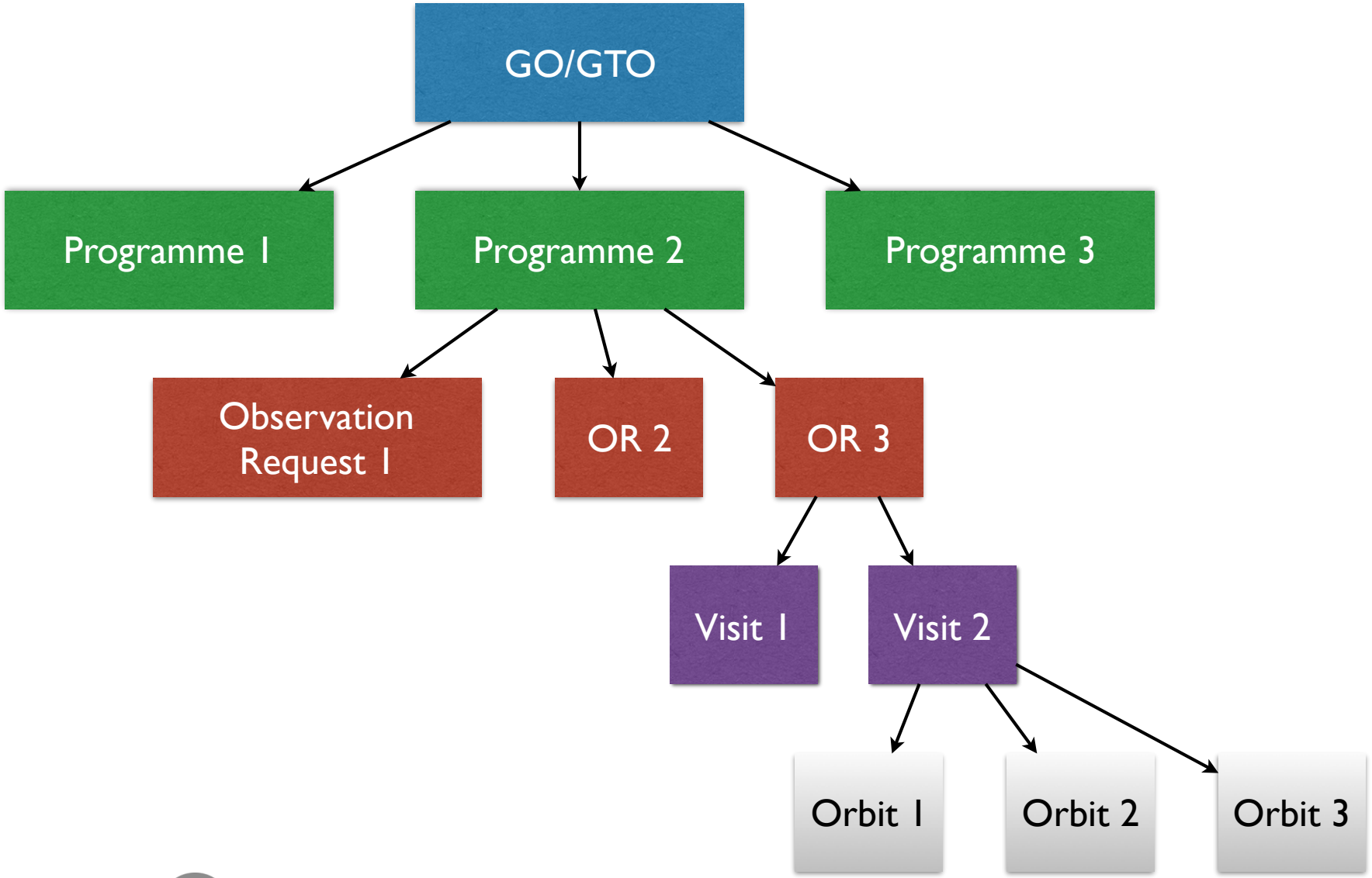
David Ehrenreich (Mission Scientist)

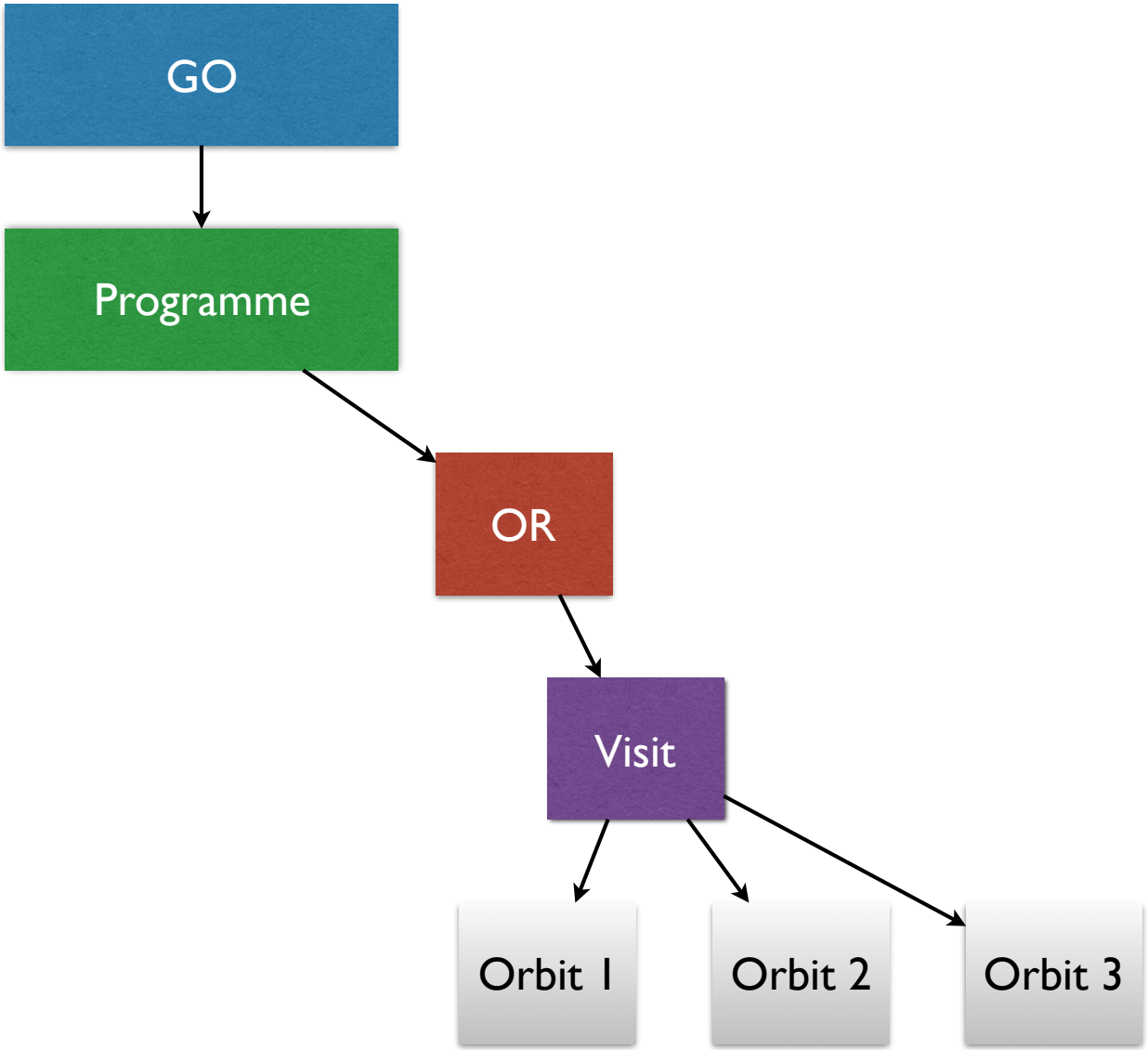
UNIVERSITÉ DE GENÈVE
FACULTÉ DES SCIENCES
Département d'astronomie

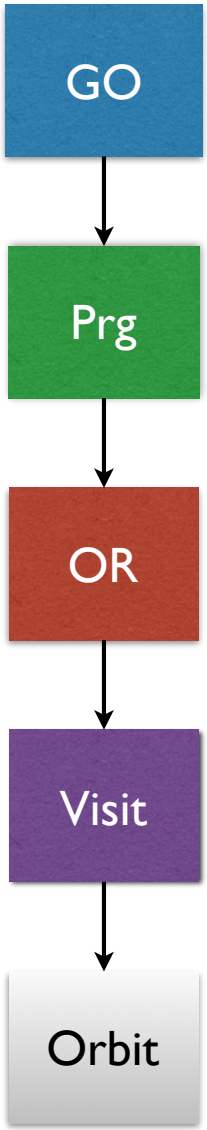
Phase 2 Proposal Handling Tool Guidelines & Hands-on ☞

URL: https://www.cosmos.esa.int/web/cheops-guest-observers-programme/open-time-workshop-2017




GO/GTO
Programme 1
Programme 2
Programme 3
Observation Request 1
OR 2
OR 3
Visit 1
Visit 2
Orbit 1
Orbit 2
Orbit 3


GO
Programme
OR
Visit
Orbit 1
Orbit 2
Orbit 3


GO
Prg
OR
Visit
Orbit

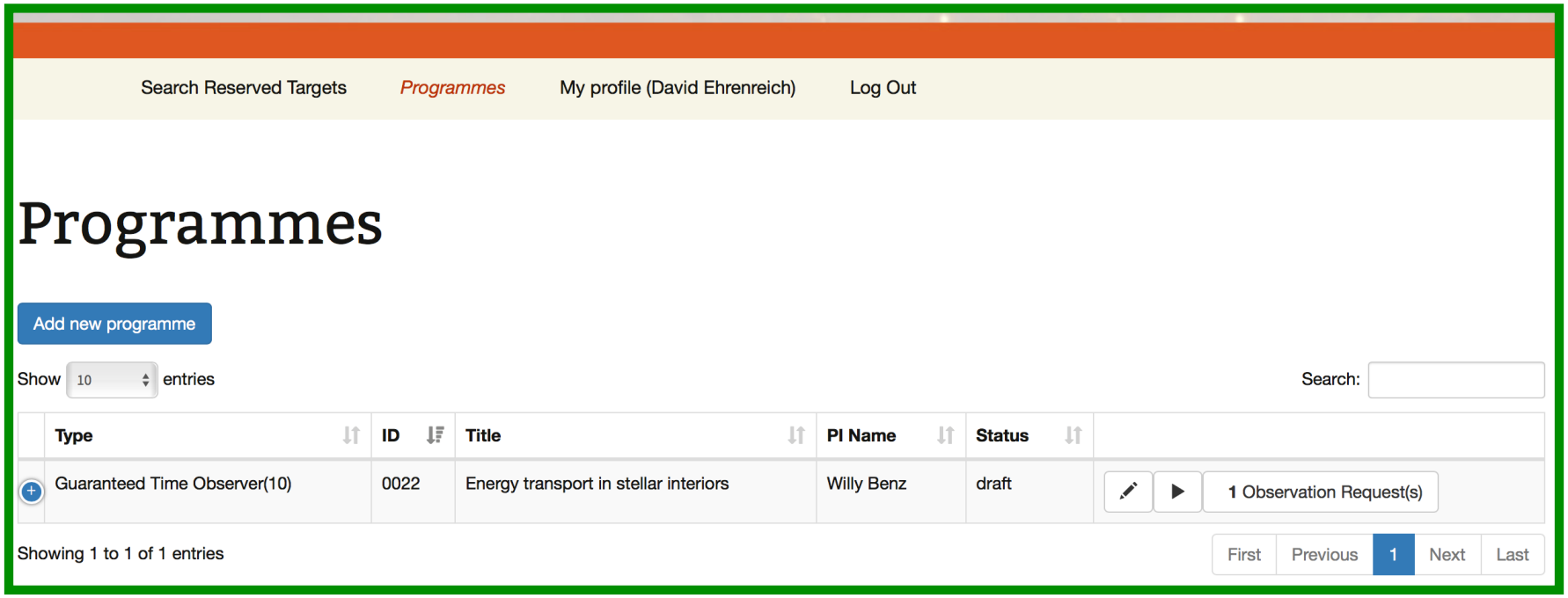
GO

Prg

OR

Visit

Orbit



Programmes information are **inherited**
from Phase I successful programmes
& **pre-filled** in Phase 2 Proposal Handling Tool

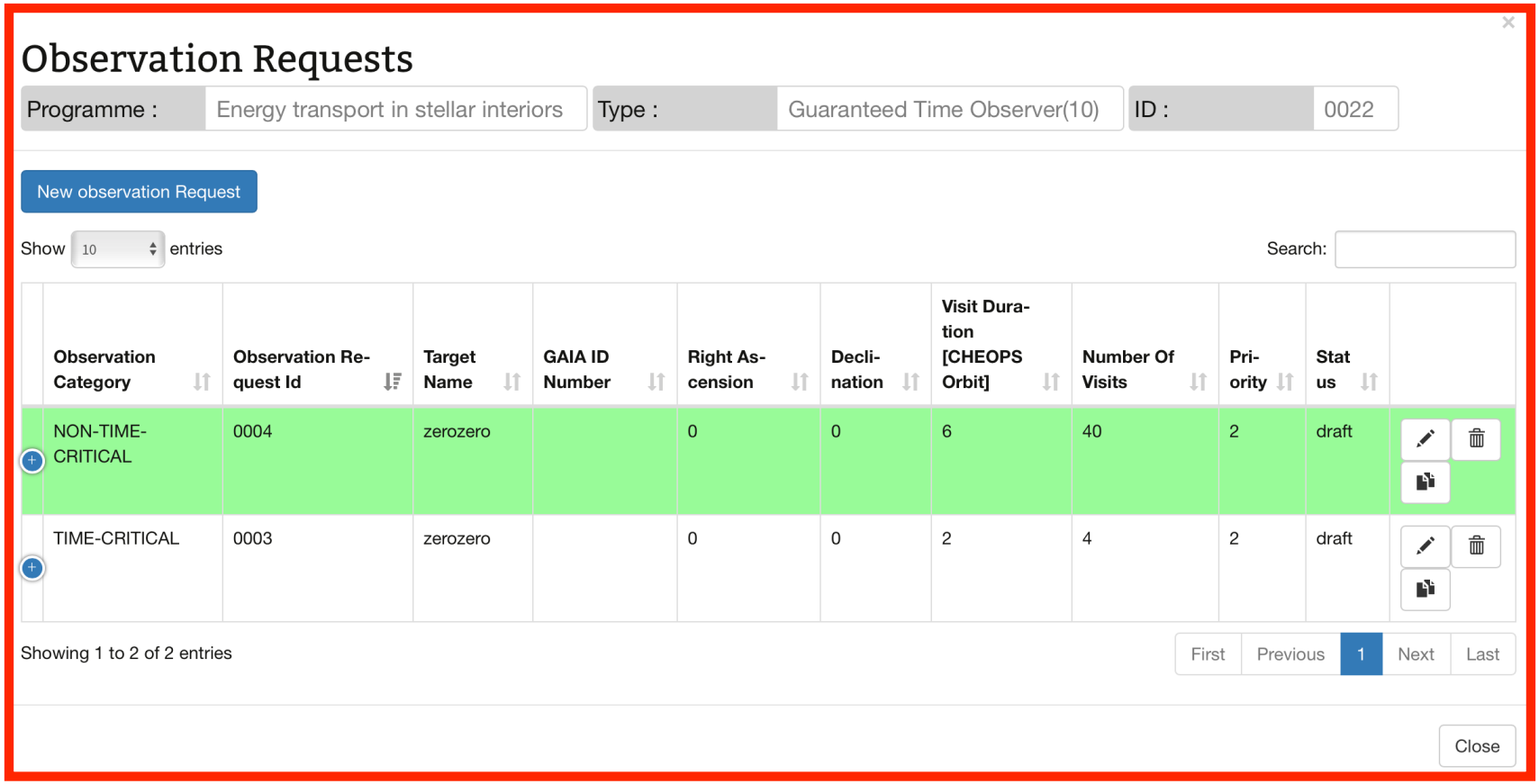
GO

Prg

OR

Visit

Orbit



Observation Requests

Programme : Energy transport in stellar interiors | Type : Guaranteed Time Observer(10) | ID : 0022

New observation Request

Show 10 entries Search:

Observation Category	Observation Request Id	Target Name	GAIA ID Number	Right Ascension	Declination	Visit Duration [CHEOPS Orbit]	Number Of Visits	Priority	Status
NON-TIME-CRITICAL	0004	zerozero		0	0	6	40	2	draft
TIME-CRITICAL	0003	zerozero		0	0	2	4	2	draft

Showing 1 to 2 of 2 entries First Previous 1 Next Last

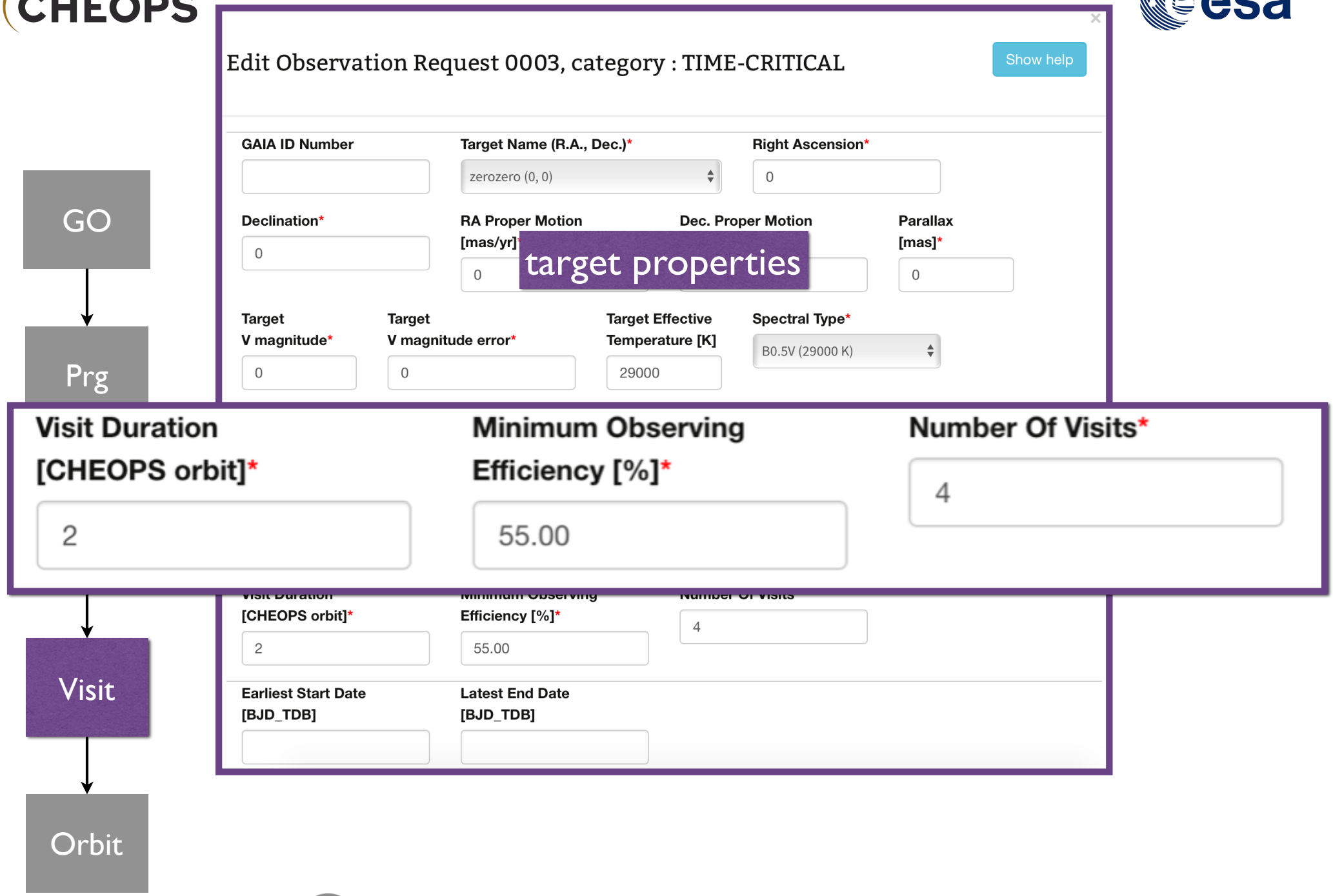
Close

Observation Requests can be

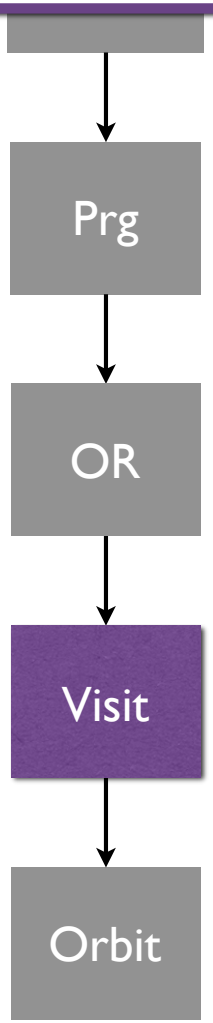
– **Time-Critical**

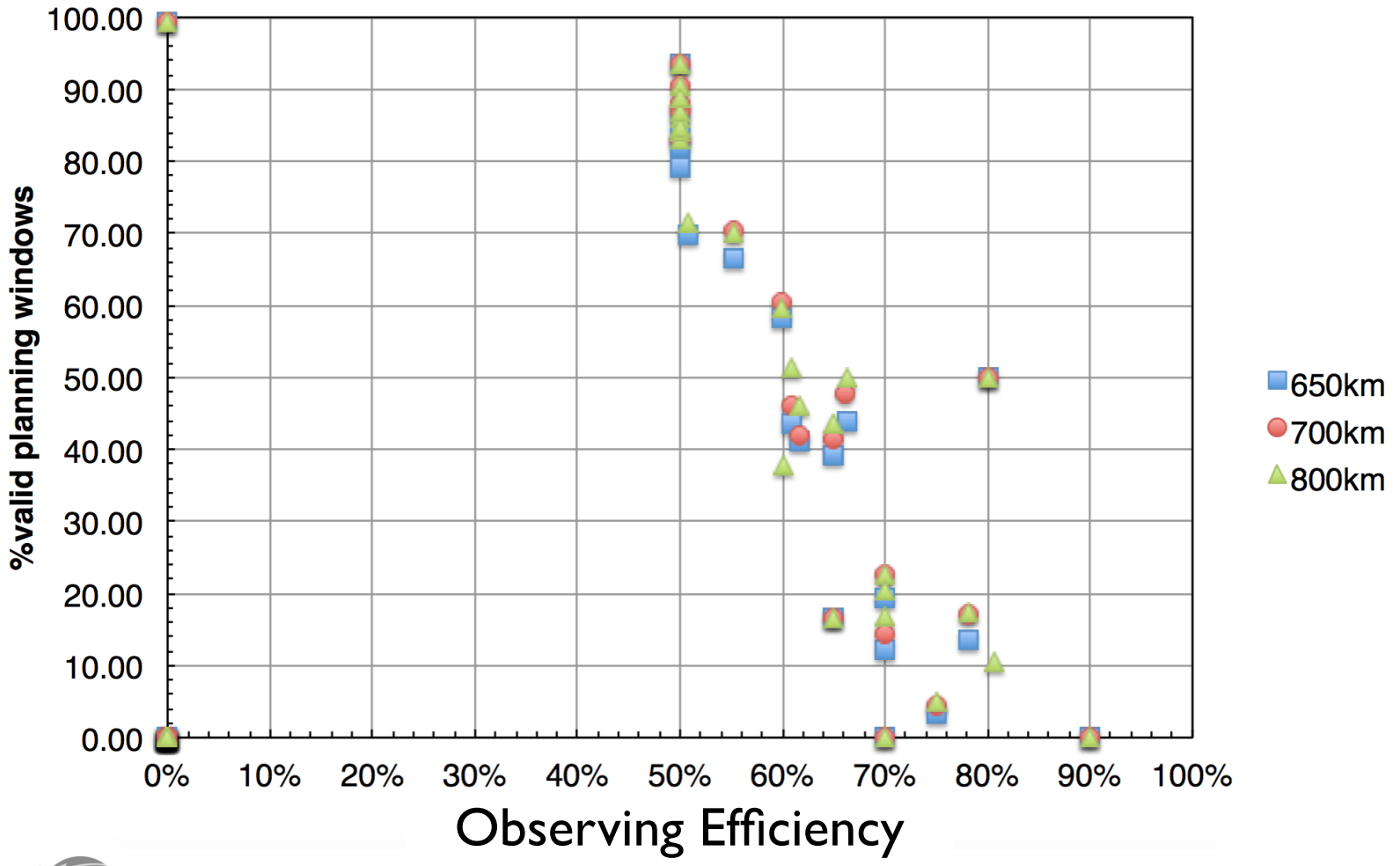
– **Non Time-Critical**

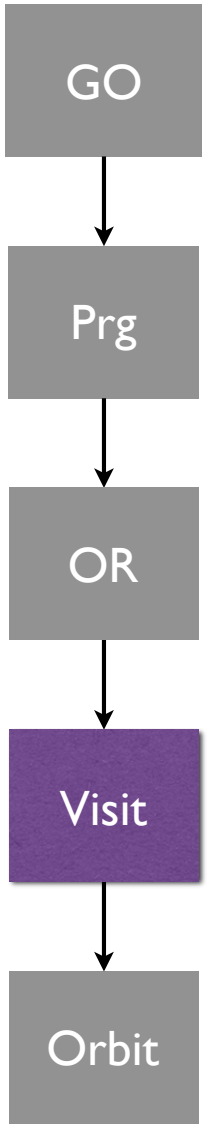
They consist in *N* identical visits of *M* orbits each (total = *N*×*M*)


Edit Observation Request 0003, category : TIME-CRITICAL
Show help
GAIA ID Number
Target Name (R.A., Dec.)*
zerozero (0, 0)
Right Ascension*
0
Declination*
0
RA Proper Motion [mas/yr]*
Dec. Proper Motion
Parallax [mas]*
0
target properties
Target V magnitude*
0
Target V magnitude error*
0
Target Effective Temperature [K]
29000
Spectral Type*
B0.5V (29000 K)
GO
Prg
Visit Duration [CHEOPS orbit]*
2
Minimum Observing Efficiency [%]*
55.00
Number Of Visits*
4
Visit
Earliest Start Date [BJD_TDB]
Latest End Date [BJD_TDB]
Orbit

Visit Duration [CHEOPS orbit]*	Minimum Observing Efficiency [%]*	Number Of Visits*
2	55.00	4







Edit Observation Request 0003, category : TIME-CRITICAL

Show help

GAIA ID Number	Target Name (R.A., Dec.)*	Right Ascension*
	zerozero (0, 0)	0

Declination*	RA Proper Motion [mas/yr]*	Dec. Proper Motion [mas/yr]*	Parallax [mas]*
0	0	0	0

Target V magnitude*	Target V magnitude error*	Target Effective Temperature [K]	Spectral Type*
0	0	29000	B0.5V (29000 K)

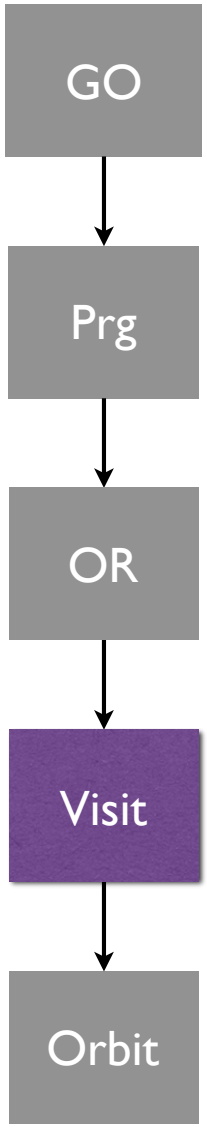
Proprietary Period First Visit [month]*	Proprietary Period Last Visit [month]*
18	12

Priority*: 2

Visit Duration [CHEOPS orbit]*	Minimum Observing Efficiency [%]*	Number Of Visits*
		4

Earliest Start Date [BJD_TDB]

Latest End Date [BJD_TDB]



Edit Observation Request 0003, category : TIME-CRITICAL

Show help

GAIA ID Number	Target Name (R.A., Dec.)*	Right Ascension*
	zerozero (0, 0)	0

Declination*	RA Proper Motion [mas/yr]*	Dec. Proper Motion [mas/yr]*	Parallax [mas]*
0	0	0	0

Target V magnitude*	Target V magnitude error*	Target Effective Temperature [K]	Spectral Type*
0	0	29000	B0.5V (29000 K)

Proprietary Period First Visit [month]*	Proprietary Period Last Visit [month]*
18	12

Priority*: 2

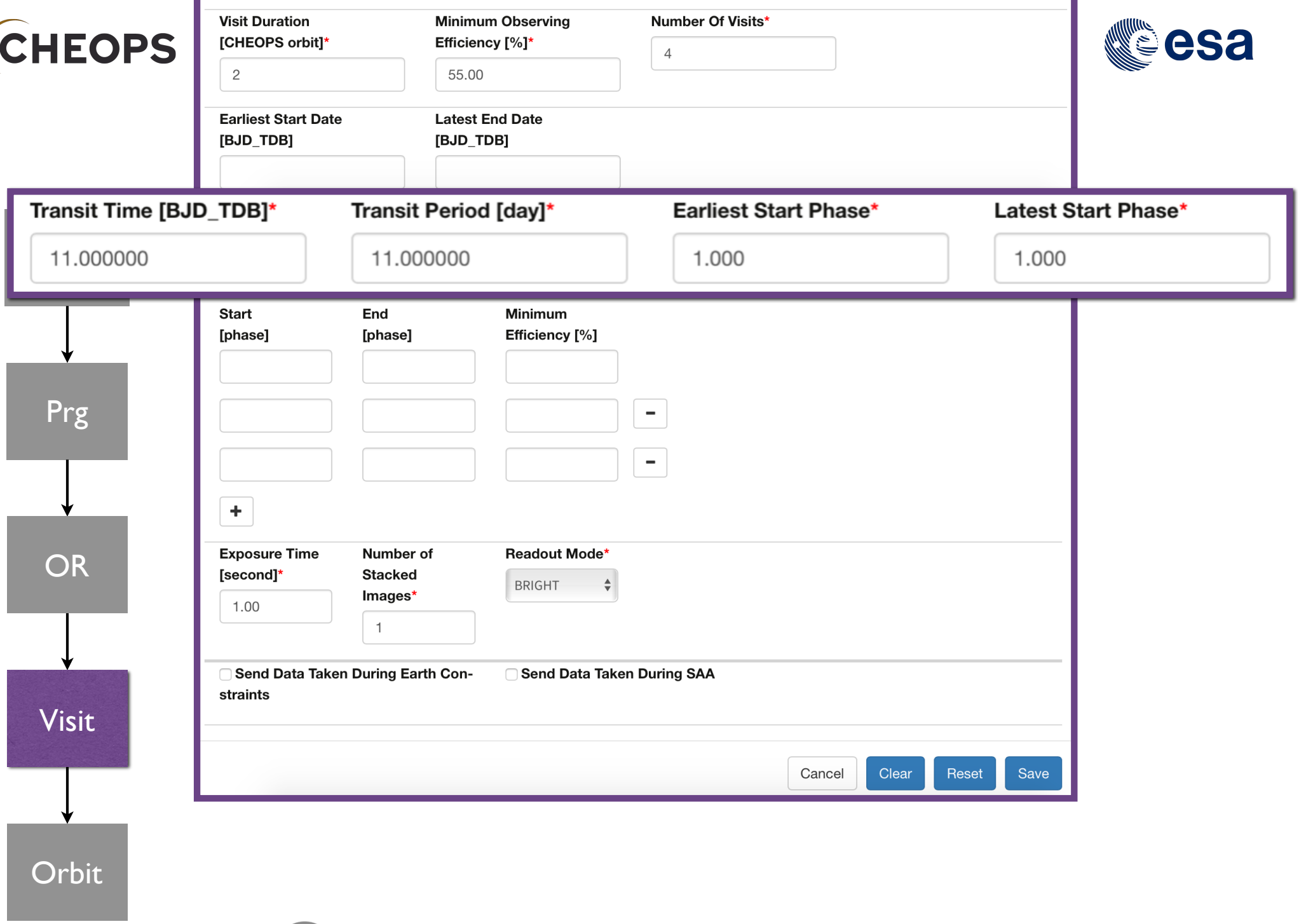
Visit Duration [CHEOPS orbit]*	Minimum Observing Efficiency [%]*	Number Of Visits*
2	55.00	4

Earliest Start Date [BJD_TDB]	Latest End Date [BJD_TDB]

Transit Time [BJD_TDB]*	Transit Period [day]*	Earliest Start Phase*	Latest Start Phase*
11.000000	11.000000	1.000	1.000

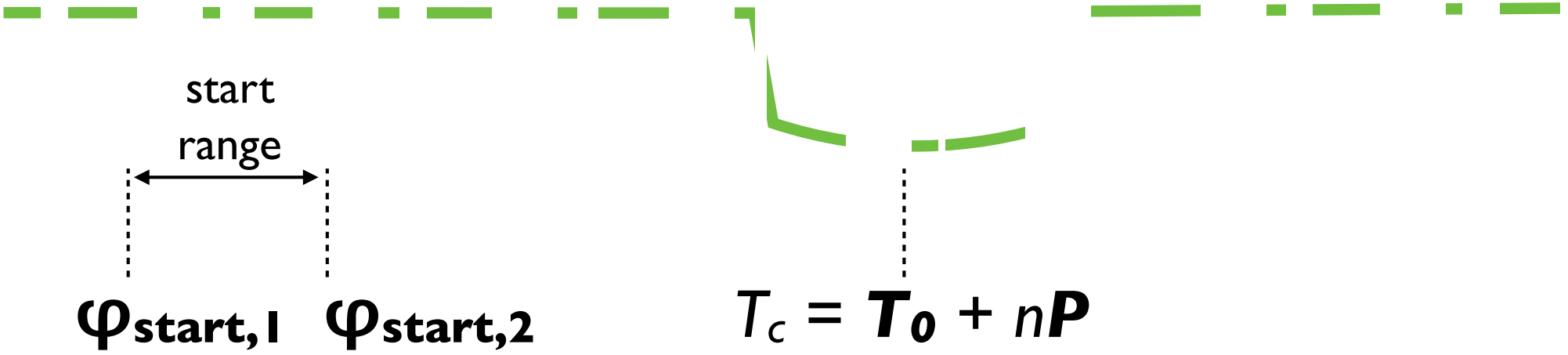
List of Phase Ranges

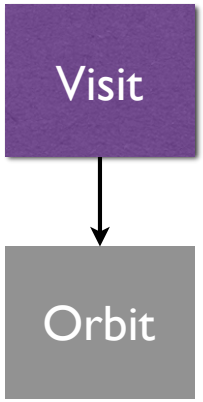
Start [phase]	End [phase]	Minimum Efficiency [%]


Visit Duration [CHEOPS orbit]*
2
Minimum Observing Efficiency [%]*
55.00
Number Of Visits*
4
Earliest Start Date [BJD_TDB]
Latest End Date [BJD_TDB]
Transit Time [BJD_TDB]*
11.000000
Transit Period [day]*
11.000000
Earliest Start Phase*
1.000
Latest Start Phase*
1.000
Start [phase]
End [phase]
Minimum Efficiency [%]
Exposure Time [second]*
1.00
Number of Stacked Images*
1
Readout Mode*
BRIGHT
Send Data Taken During Earth Constraints
Send Data Taken During SAA
Cancel
Clear
Reset
Save
Prg
OR
Visit
Orbit

Transit Time [BJD_TDB]*	Transit Period [day]*	Earliest Start Phase*	Latest Start Phase*
11.000000	11.000000	1.000	1.000

T_0 P $\varphi_{start,1}$ $\varphi_{start,2}$

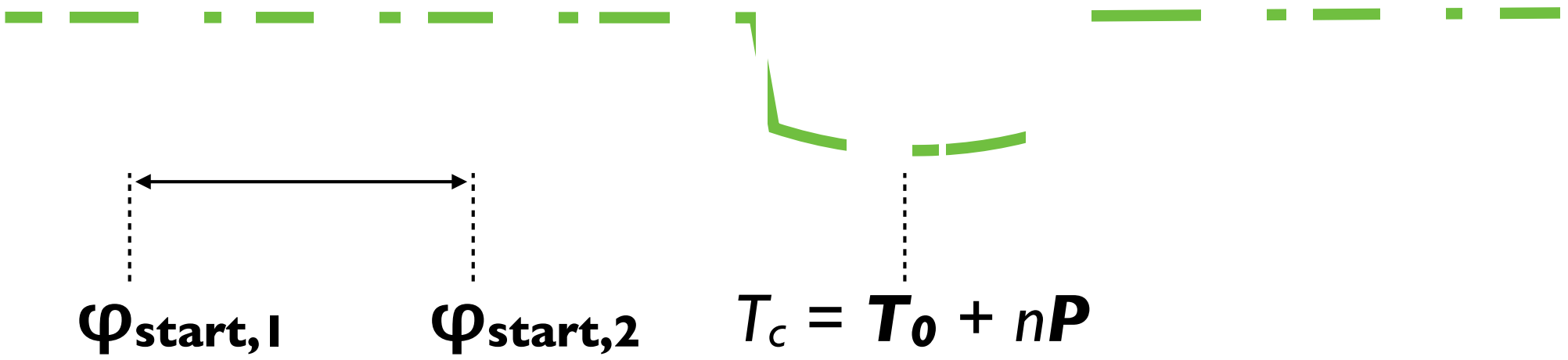


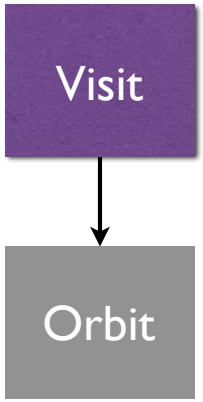


Reminder:

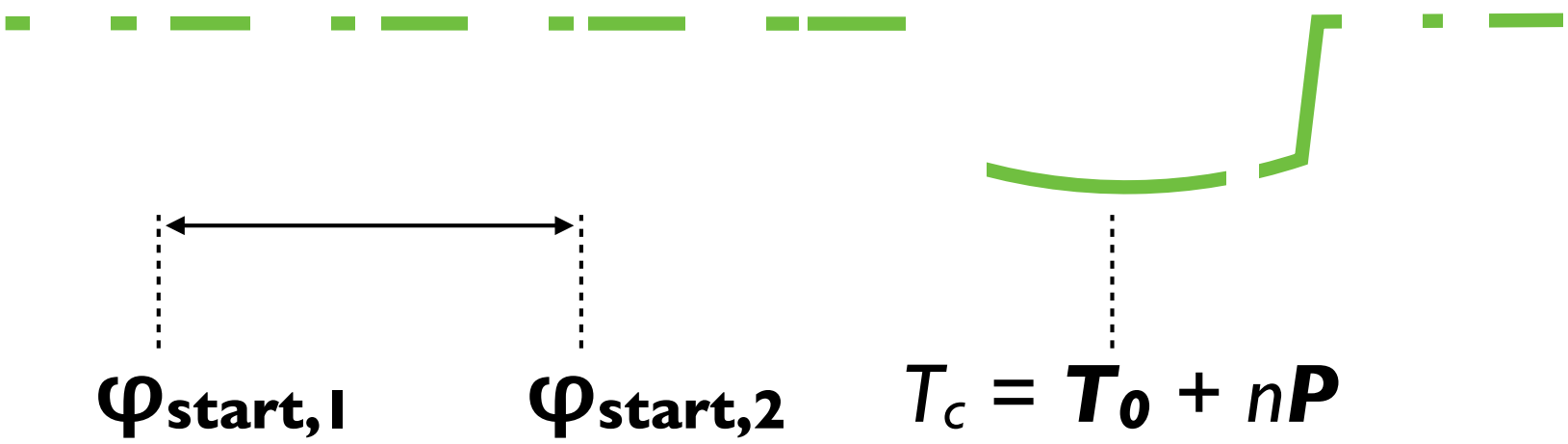
$$\varphi=(t-T_0)/P - E[(t-T_0)/P]$$

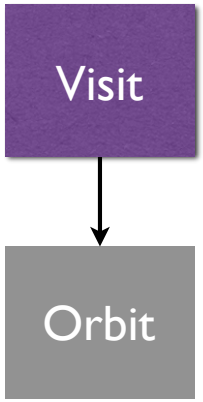
Transit Time [BJD_TDB]*	Transit Period [day]*	Earliest Start Phase*	Latest Start Phase*
11.000000	11.000000	1.000	1.000





Transit Time [BJD_TDB]*	Transit Period [day]*	Earliest Start Phase*	Latest Start Phase*
11.000000	11.000000	1.000	1.000





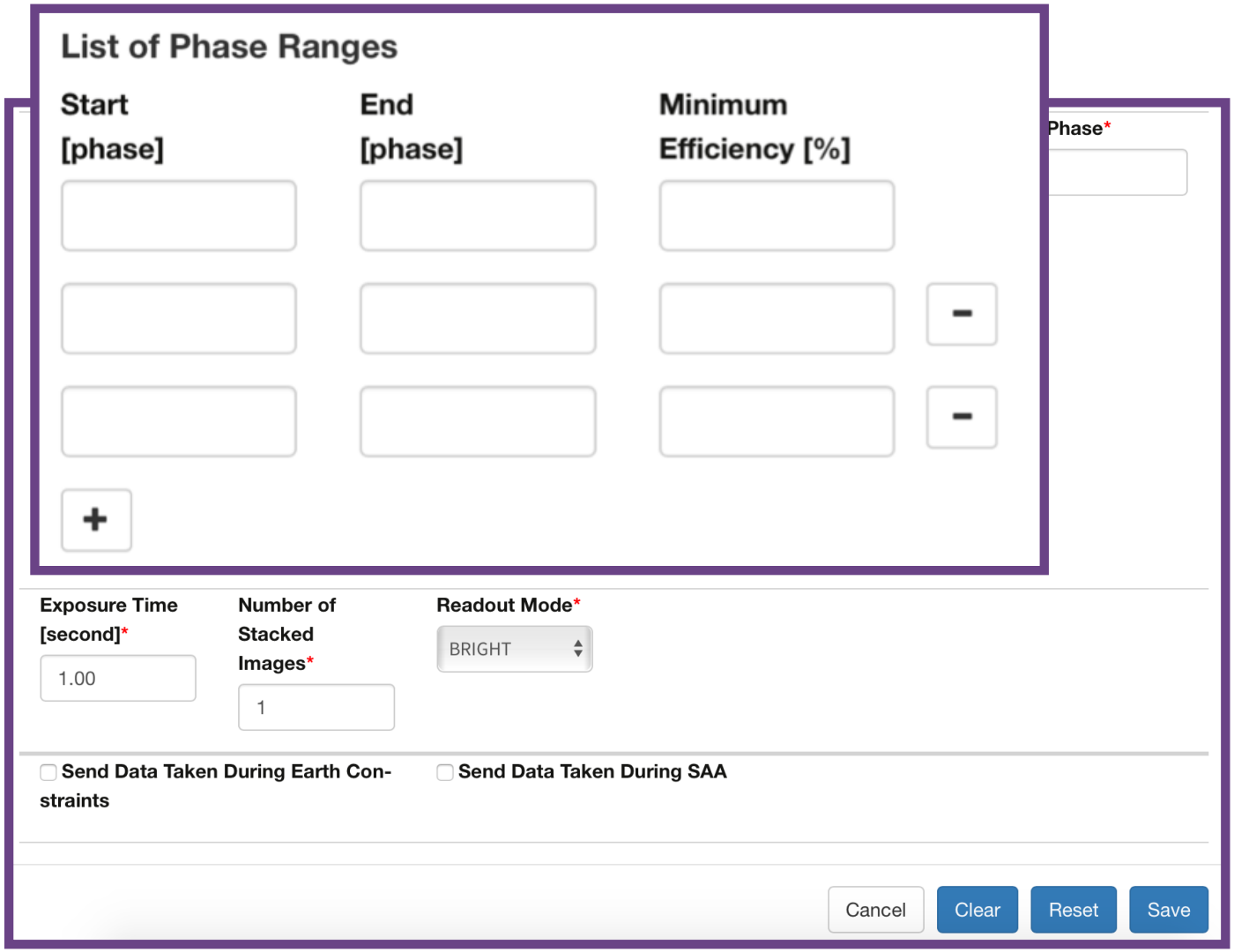
GO

Prg

OR

Visit

Orbit



GO

Prg

OR

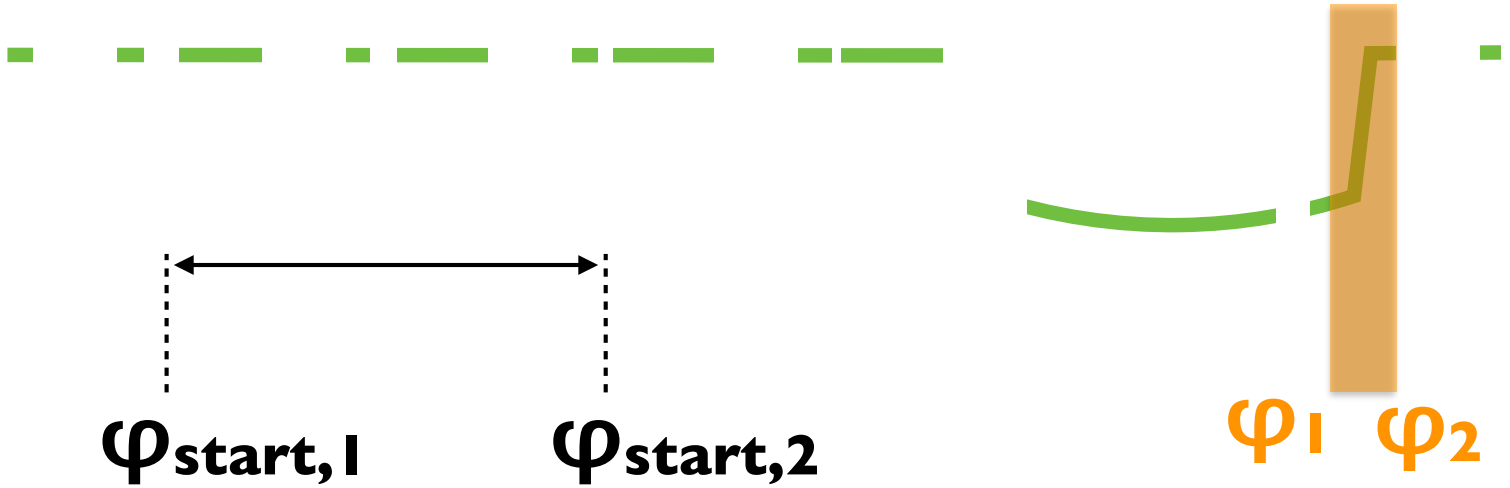
Visit

Orbit

List of Phase Ranges

Start [phase]	End [phase]	Minimum Efficiency [%]	
			−
			−

+



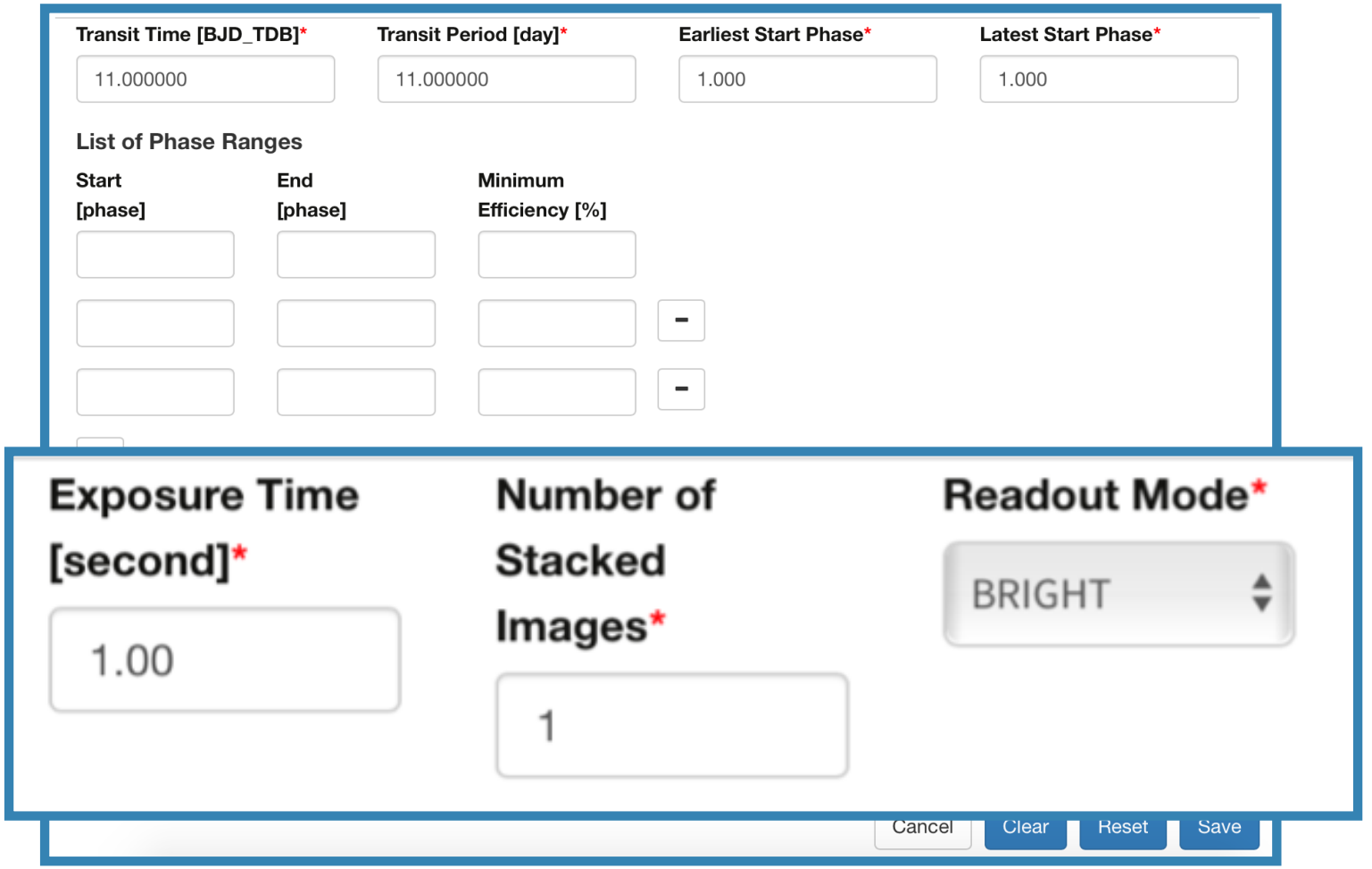
GO

Prg

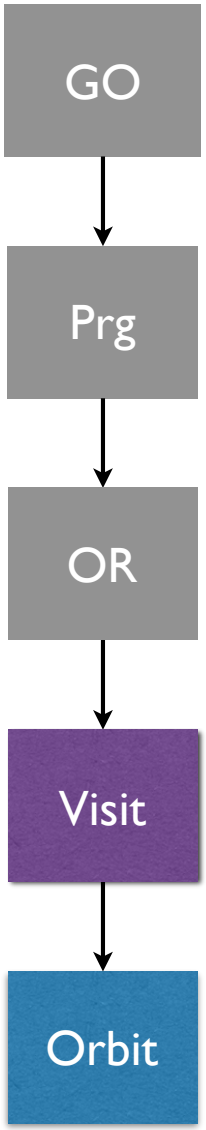
OR

Visit

Orbit



To be updated!



Exp time	Readout mode	Cadence	Stacking
1 ms–1 s	Ultrabright	1 min*	Yes
1 s–12 s	Bright	1 min	Yes
12 s–30 s	Faint	1 min	Yes
30 s–60 s	Faint	30–60 s^{-1}	No

To be updated!

GO

Prg

OR

Visit

Orbit

Exposure time ranges

V	G_0 star		K_0 star		M_0 star	
	Min t_exp (sec) [10%FWC]	Max t_exp (sec) [70%FWC]	Min t_exp (sec) [10%FWC]	Max t_exp (sec) [70%FWC]	Min t_exp (sec) [10%FWC]	Max t_exp (sec) [70%FWC]
6	0.17	1.17	0.16	1.11	0.12	0.87
6.5	0.27	1.86	0.25	1.76	0.20	1.38
7	0.42	2.94	0.40	2.80	0.31	2.19
7.5	0.67	4.66	0.63	4.43	0.50	3.47
8	1.05	7.38	1.00	7.02	0.79	5.50
8.5	1.67	11.70	1.59	11.13	1.25	8.72
9	2.65	18.55	2.52	17.64	1.97	13.82
9.5	4.20	29.40	3.99	27.96	3.13	21.90
10	6.66	46.60	6.33	44.31	4.96	34.70
10.5	10.55	60.00	10.03	60.00	7.86	55.00
11	16.72	60.00	15.90	60.00	12.45	60.00
11.5	26.50	60.00	25.20	60.00	19.74	60.00
12	42.00	60.00	39.94	60.00	31.28	60.00
12.5	60.00	60.00	60.00	60.00	49.57	60.00
13	60.00	60.00	60.00	60.00	60.00	60.00

Check exposure time ranges in ETC

CHEOPS
CHARACTERISING EXOPLANET SATELLITE

Proposal Handling Tool
Phase 2

Search Reserved Targets Programmes My profile (David Ehrenreich) Log Out

Search Reserved Targets

Search radius : 10 Arcsecond

Right ascension **Declination**

1 - 9 = ?

Clear Search