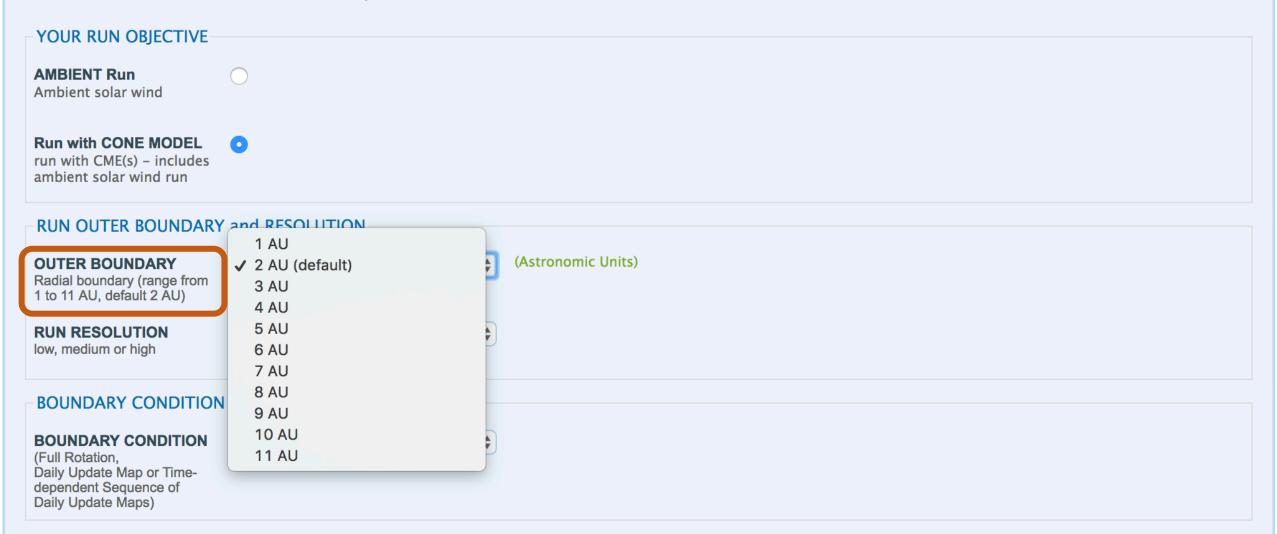# REQUEST an ENLIL MODEL RUN

Please fill in the form below and continue with your run submission.

YOUR RUN OBJECTIVE

AMBIENT Run
Ambient solar wind ○

Run with CONE MODEL ●
run with CME(s) – includes
ambient solar wind run

RUN OUTER BOUNDARY and RESOLUTION

OUTER BOUNDARY   [2 AU (default)   ⇕]   (Astronomic Units)
Radial boundary (range from
1 to 11 AU, default 2 AU)

RUN RESOLUTION   [low   ⇕]
low, medium or high

BOUNDARY CONDITION TYPE

BOUNDARY CONDITION   [Single Full Rotation Map (fr)   ⇕]
(Full Rotation,
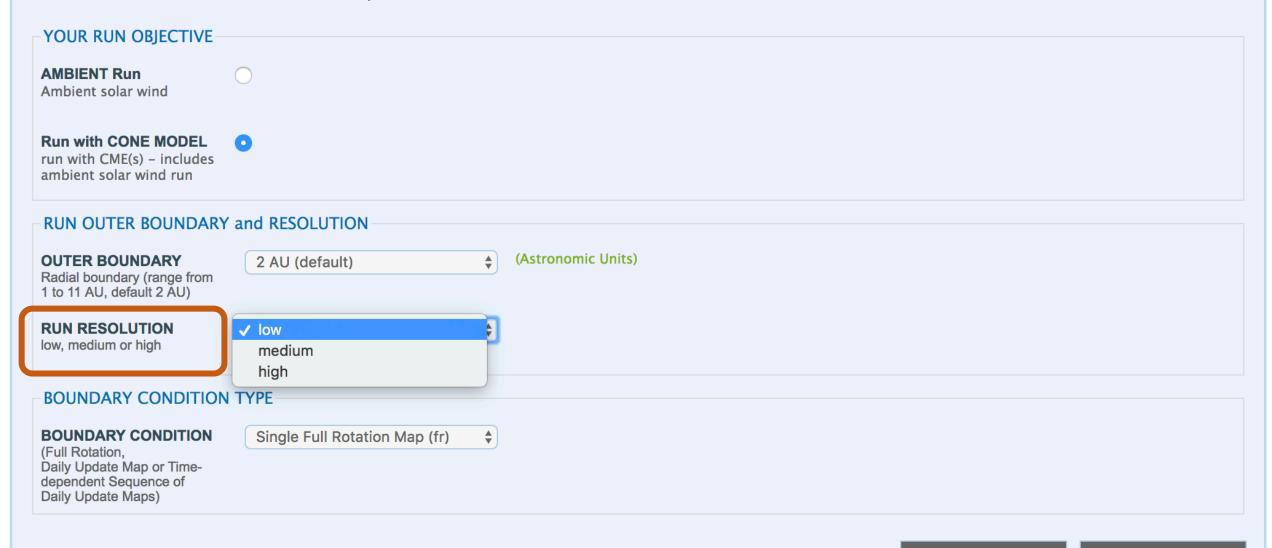Daily Update Map or Time-
dependent Sequence of
Daily Update Maps)

CONTINUE SUBMISSION   RESET

REQUEST an ENLIL MODEL RUN

Please fill in the form below and continue with your run submission.

YOUR RUN OBJECTIVE

AMBIENT Run
Ambient solar wind
◯

Run with CONE MODEL
run with CME(s) – includes
ambient solar wind run
⦿

RUN OUTER BOUNDARY and RESOLUTION

OUTER BOUNDARY
Radial boundary (range from
1 to 11 AU, default 2 AU)

(Astronomic Units)

1 AU
✓ 2 AU (default)
3 AU
4 AU
5 AU
6 AU
7 AU
8 AU
9 AU
10 AU
11 AU

RUN RESOLUTION
low, medium or high

BOUNDARY CONDITION

BOUNDARY CONDITION
(Full Rotation,
Daily Update Map or Time-
dependent Sequence of
Daily Update Maps)

CONTINUE SUBMISSION   RESET

REQUEST an ENLIL MODEL RUN

Please fill in the form below and continue with your run submission.

YOUR RUN OBJECTIVE

AMBIENT Run
Ambient solar wind

( )

Run with CONE MODEL
run with CME(s) – includes
ambient solar wind run

(●)

RUN OUTER BOUNDARY and RESOLUTION

OUTER BOUNDARY
Radial boundary (range from
1 to 11 AU, default 2 AU)

| 2 AU (default) ⬍ | **(Astronomic Units)**

RUN RESOLUTION
low, medium or high

| ✓ low |
| medium |
| high |

BOUNDARY CONDITION TYPE

BOUNDARY CONDITION
(Full Rotation,
Daily Update Map or Time-
dependent Sequence of
Daily Update Maps)

| Single Full Rotation Map (fr) ⬍ |

CONTINUE SUBMISSION   RESET

REQUEST an ENLIL MODEL RUN

Please fill in the form below and continue with your run submission.

YOUR RUN OBJECTIVE

AMBIENT Run
Ambient solar wind
○

Run with CONE MODEL
run with CME(s) – includes
ambient solar wind run
●

RUN OUTER BOUNDARY and RESOLUTION

OUTER BOUNDARY
Radial boundary (range from
1 to 11 AU, default 2 AU)

| 2 AU (default) ⬍ | (Astronomic Units)

RUN RESOLUTION
low, medium or high

| low ⬍ |

BOUNDARY CONDITION TYPE

BOUNDARY CONDITION
(Full Rotation,
Daily Update Map or Time-
dependent Sequence of
Daily Update Maps)

    Single Full Rotation Map (fr)
✓   Single Daily Update Map (du)
    Time-dependent Sequence of Daily Update Maps (dt)

CONTINUE SUBMISSION   RESET

CONTINUE SUBMISSION of YOUR ENLIL Request

INPUT MAGNETOGRAM OBSERVATORY

OBSERVATORY
gongb

Select input magnetogram observatory
✓ NSO/GONG Standard QuickReduce Magnetogram Synoptic Map (mrbqs, "gongb")

MAGNETOGRAM OBSERVATION DATE

OBSERVATION DATE
obsdate (date of the daily map)
Suggested value: within 5 days of rundate below

2016-09-15   yyyy-mm-dd

SIMULATION OUTPUT CONTROL PARAMETERS

START OF OUTPUT
rundate (Suggested value: CME start date)

2016-09-15   yyyy-mm-dd

SIMULATION DURATION
tstop (default is 120 hours - or 5 days)

120   hours

FULL 3D OUTPUT TIMESTEP
tstep (default is 6 hours) (Note: Output cadence for 1D time series at planets and spacecraft is 1 min no matter what 3D output tstep is selected)

6   hours

UPLOAD CME PARAMETER FILE

If requesting a run with CONE model, upload parameter file describing your CME(s) in the **SPECIFIED FORMAT.** Alternatively, you can produce your CME parameter file using DONKI report. Note that for simulations with large number of CMEs (>=100 CMEs) we recommend weeding out insignificant CMEs in your file, to speed up the simulation.
NAMING the FILE: full path name to the uploaded file on your local disk should not contain any blank spaces; use alphanumeric characters ONLY in the file name and extension (e.g., *cme-params-file_1.txt*)

| Choose File | CME-param..._file.txt   for CONE Model runs ONLY

FINALIZE and SUBMIT your BASIC REQUEST

FINALIZE BASIC RUN   ●

CONTINUE SUBMISSION   RESET

OPTIONAL - Proceed to ADVANCED RUN SETUP

Selecting ADVANCED RUN SETUP below will allow you to specify additional parameters for your request (e.g., ambient solar wind parameters, latitude grid, CME parameters and simulation blocks) or to describe your desired CUSTOM simulation setup.

CONTINUE with ADVANCED RUN SETUP

ADVANCED RUN   ○

```
# Example CME input file
# Optional user comments can go here (start the comment line with #)
#
#----------------------------------------------------
# Data should be 8 columns:
# 01  date: CME leading-edge time at ENLIL inner boundary of 21.5 Rs (yyyy-mm-ddThh:mm)
# 02   lat: Latitude of the cone axis (HEEQ deg). Range: -90 to 90 deg.
# 03   lon: Longitude of the cone axis (HEEQ deg). Range: -180 to 180 deg.
# 04  rmaj: Major radius of the cone (deg) (half-angle). Range: 5 to 90 deg.
# 05  rmin: Minor radius of the cone (deg). Setting rmin=0 computes default rmin=rmax.  Range 5 to 90 deg, rmin should
not exceed rmaj.
# 06  tilt: Angle between radius of the cone and solar equator (deg). Range: -180 to 180 deg. CCW - positive
# 07  vcme: CME leading-edge speed (km/s). Range: 50 to 4000 km/s.
# 08  vend: CME trailing-edge speed (km/s). Choosing vend=0 computes default value). Range: 50 to 4000; vend cannot
exceed vcme.
#----------------------------------------------------
#           date   lat   lon rmaj rmin tilt vcme vend
#
2016-09-15T04:24  -18 -122   43    0    0  722    0
```

See format template here:

https://ccmc.gsfc.nasa.gov/requests/SH/E28/CME-parameters_file.txt

UPLOAD CME PARAMETER FILE

If requesting a run with CONE model, upload parameter file describing your CME(s) in the **SPECIFIED FORMAT.** Alternatively, you can produce your CME parameter file using DONKI report. Note that for simulations with large number of CMEs (>=100 CMEs) we recommend weeding out insignificant CMEs in your file, to speed up the simulation.

NAMING the FILE: full path name to the uploaded file on your local disk should not contain any blank spaces; use alphanumeric characters ONLY in the file name and extension (e.g., *cme-params-file_1.txt*)

| Choose File | CME-param..._file.txt | for CONE Model runs ONLY

FINALIZE and SUBMIT your BASIC REQUEST

FINALIZE BASIC RUN ⦿

CONTINUE SUBMISSION | RESET

OPTIONAL - Proceed to ADVANCED RUN SETUP

Selecting ADVANCED RUN SETUP below will allow you to specify additional parameters for your request (e.g., ambient solar wind parameters, latitude grid, CME parameters and simulation blocks) or to describe your desired CUSTOM simulation setup.

CONTINUE with ADVANCED RUN SETUP

ADVANCED RUN ◯

Note: Your CME parameter file **with 1 CMEs** has been uploaded. If the number of CMEs is not correct please make sure your uploaded file confrms to the specified CME file format or to the format of DONKI report. If the problem persists, please contact the CCMC staff.

FINALIZE and SUBMIT YOUR REQUEST

YOUR CONTACT INFO AND RUN KEY WORD

Your run results will be published online *under your Run Registration Number*
(FirstName_LastName_MMDDYY_ModelType_RunNumber) e.g.
John_Smith_032511_SH_1.

EMAIL*
how to contact you

Enter a valid email address

FIRST NAME (GIVEN)*
your given name

Enter your given name

LAST NAME (FAMILY)*
your family name

Enter your family name

RUN NUMBER*
max of 20 runs per day

choose run number for today

Unless you want to overwrite it

KEYWORD/S*
helps to sort and search the results of simulations

bootcamp

Use mostly alphanumerics in your keyword entry; avoid special characters such as ()?/&@! and others

SUBMIT REQUEST   RESET