

ICON Grid Generator + ExtPar Web Frontend

Welcome! Please fill out the following form and press the submit button.

Requested operation:

- ☒ run grid generator + ExtPar tool
- ☐ generate script for ExtPar subset extraction
- ☐ re-run ExtPar tool for input file

Your e-mail address (required for download):

input file:

create new base grid RxxByy (no input file)

= Domain #0

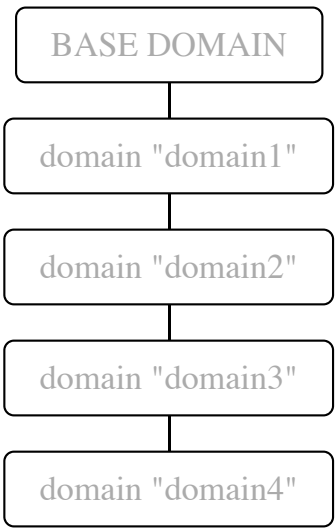
Grid resolution *RxxByy*:

xx= , yy= ... approx. 19.7 km

rotation pole (degrees): longitude: , latitude:

"*ASTER*" orography

- ☐ turn off high-resolution "*ASTER*" orography (using "*GLOBE*" dataset instead despite the grid resolution being finer than 3 km)



Global parameters:

centre:

subcentre:

☒ **spring dynamics optimization (recommended)**

detailed optimization settings (change this if necessary):

max. number of iterations:

2000

beta factor:

0.9

fixed lateral boundary:

☒

☒ **initial refinement**

deactivate to simply extract first domain from base grid rather than refining. Needs to be activated in order to write a parent grid.

☐ **include base grid**

include base grid (domain #0) in result dataset.

(Sub-) Domain #1:

☒ rectangular ☐ circular ☐

refine all cells of parent domain

Note: Coordinate data is given with respect to the ellipsoidal reference system WGS84.
ExtPar re-interprets coordinates without transformation.

domain name:

domain1

number of grid used:

99

write parent grid:

☐

←

Enable this checkbox to generate a separate coarse (parent) grid. This coarse grid file can be used as a reduced radiation grid. Do not use this option for nests.

parent grid ID:

0

center:

longitude (degrees)

-56

latitude (degrees)

13

half width:

9

half height:

8

rotate:

☐

north pole:

longitude (degrees)

0.0

latitude (degrees)

90.0

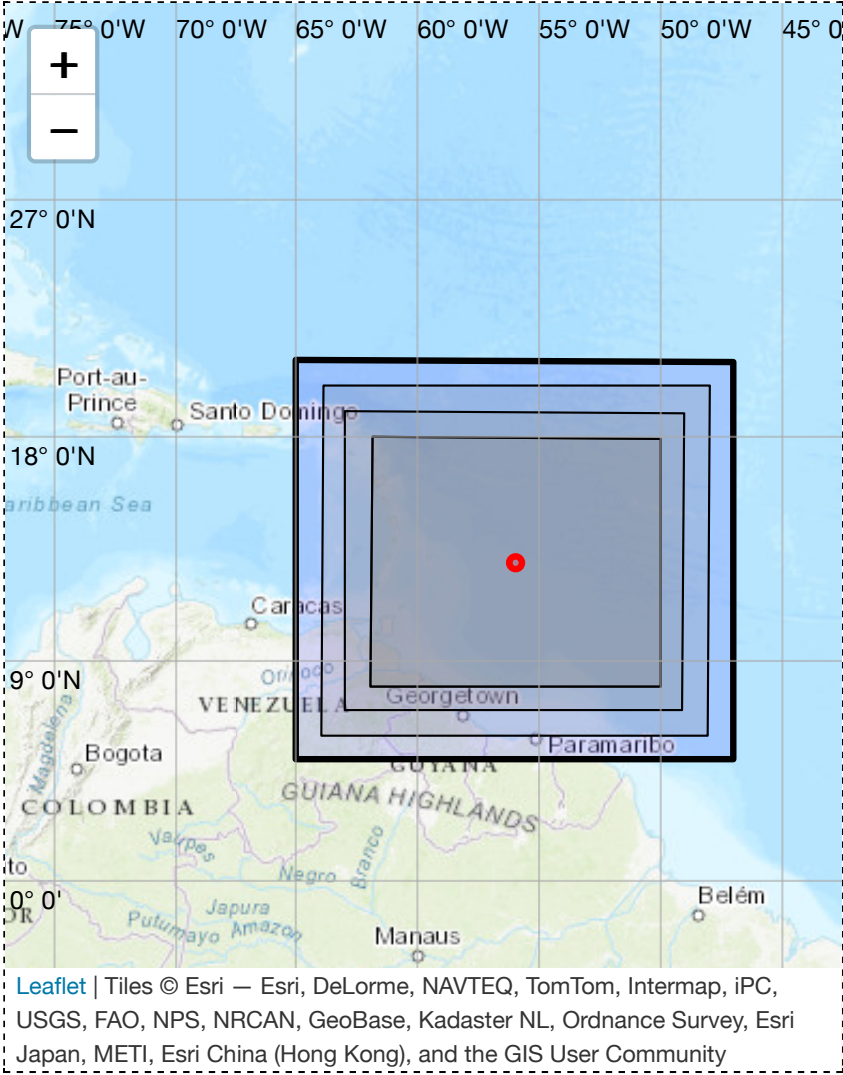
Estimated resolution:

9.863 km

Estimated no. of triangle cells:

35625 (R2B8)

(estimate, does not take into account the cut-out by other domains;
note the limit of 3 000 000 cells for the web interface)

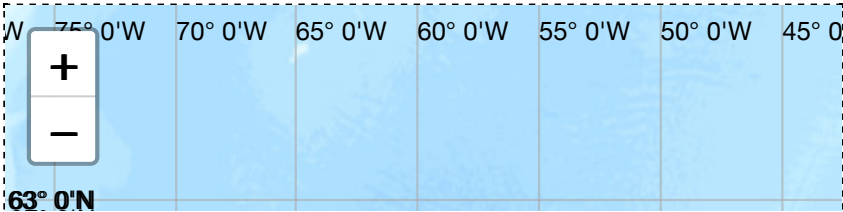


(Sub-) Domain #2

☒ rectangular ☐ circular ☐

refine all cells of parent domain

Note: Coordinate data is given with respect to the ellipsoidal reference system WGS84.
ExtPar re-interprets coordinates without transformation.



domain name:

domain2

number of grid used:

99

write parent grid:

☐

←

Enable this checkbox to generate a separate coarse (parent) grid. This coarse grid file can be used as a reduced radiation grid. Do not use this option for nests.

parent grid ID:

1

center:

longitude (degrees)

-56

latitude (degrees)

13

half width:

8

half height:

7

rotate:

☐

north pole:

longitude (degrees)

0.0

latitude (degrees)

90.0

Estimated resolution:

4.932 km

Estimated no. of triangle cells:

110919 (R2B9)

(estimate, does not take into account the cut-out by other domains;
note the limit of 3 000 000 cells for the web interface)



(Sub-) Domain #3

☒ rectangular

☐ circular

refine all cells of parent domain

Note: Coordinate data is given with respect to the ellipsoidal reference system WGS84.
ExtPar re-interprets coordinates without transformation.

domain name:

domain3

number of grid used:

99

write parent grid:

☐

←

Enable this checkbox to generate a separate coarse (parent) grid. This coarse grid file can be used as a reduced radiation grid. Do not use this option for nests.

parent grid ID:

2

center:

longitude (degrees)

-56

latitude (degrees)

13

half width:

7

half height:

6

rotate:

☐

north pole:

longitude (degrees)

0.0

latitude (degrees)

90.0

Estimated resolution:

2.466 km

Estimated no. of triangle cells:

332978 (R2B10)

(estimate, does not take into account the cut-out by other domains;



Version Info

Web service (Python):

ICON Tools: v2.4.7

Web page: 24-11-2021

icongridgen:

Tag Version 2.4.7: July 2020

Extpar:

May 2020

