

Hectares BC

Grid Specifications

Prepared For

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Document Tracking

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The background of the page features a stylized landscape with rolling hills and a forest. The hills are rendered with a grid of thin, light green lines, creating a topographic effect. The forest at the bottom is a solid dark green. In the upper right, there is a logo consisting of a square and a circle. The text 'Refractions RESEARCH' is positioned above the grid, and 'THE GEOSPATIAL EXPERTS' is below it.

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REVISION HISTORY

Date	Version	Author	Description of Changes
Sept 5, 2007	1	Emily Gouge (Refractions Research)	First draft

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1 HABC GRID SPECIFICATIONS

1.1 PROJECTION

The HaBC grid is produced using the BC Albers planar projection.

BC Albers is an Albers Equal Area Conic projection with the following parameterization:

```
PROJCS["BC_Albers",  
  GEOGCS["GCS_North_American_1983",  
    DATUM["D_North_American_1983",  
      SPHEROID["GRS_1980",6378137,298.257222101]  
    ],  
    PRIMEM["Greenwich",0],  
    UNIT["Degree",0.017453292519943295]  
  ],  
  PROJECTION["Albers"],  
  PARAMETER["False_Easting",1000000],  
  PARAMETER["False_Northing",0],  
  PARAMETER["Central_Meridian",-126],  
  PARAMETER["Standard_Parallel_1",50],  
  PARAMETER["Standard_Parallel_2",58.5],  
  PARAMETER["Latitude_Of_Origin",45],  
  UNIT["Meter",1]  
]
```

1.2 SPECIFICATIONS

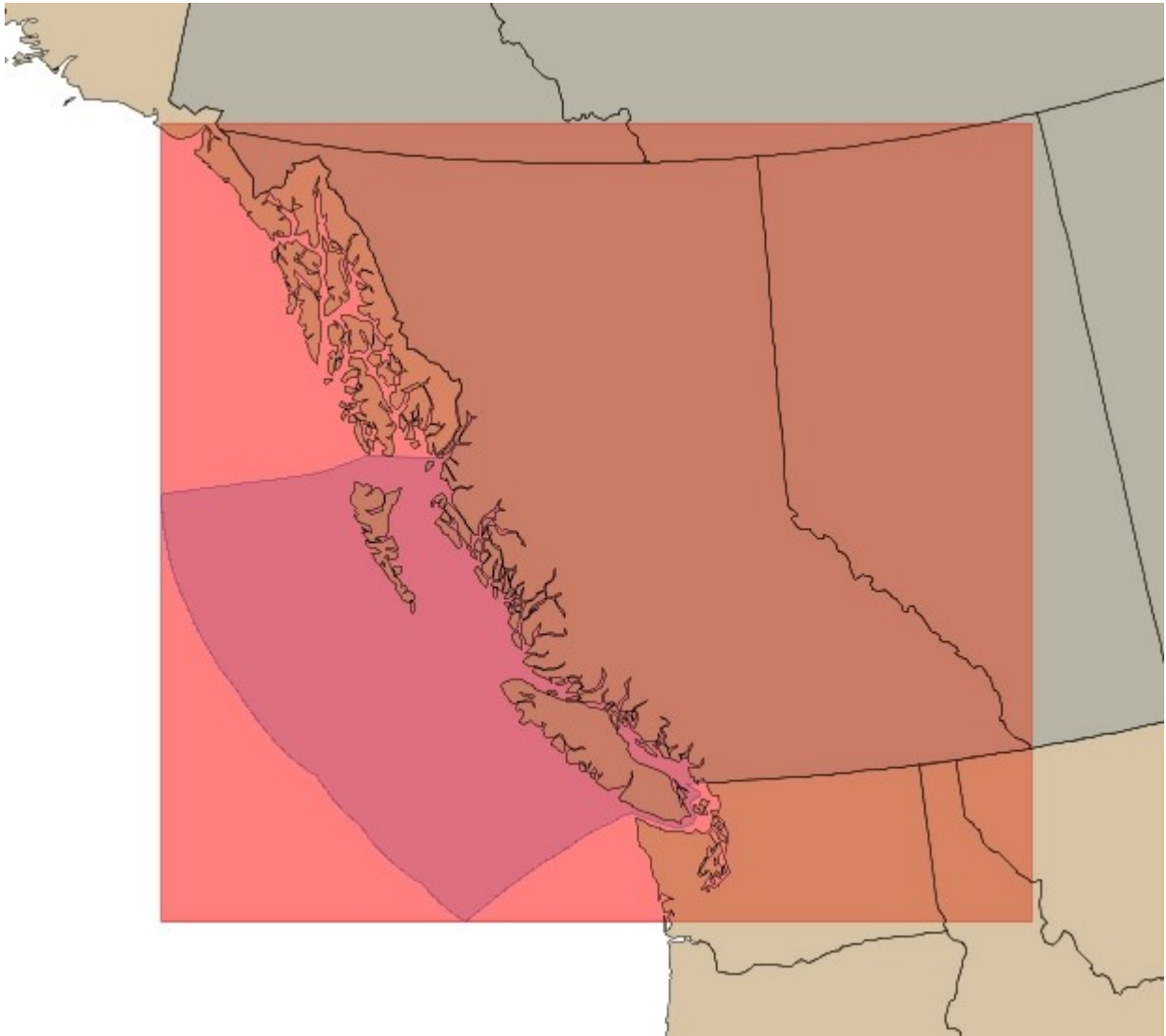


Figure 1: HaBC Grid

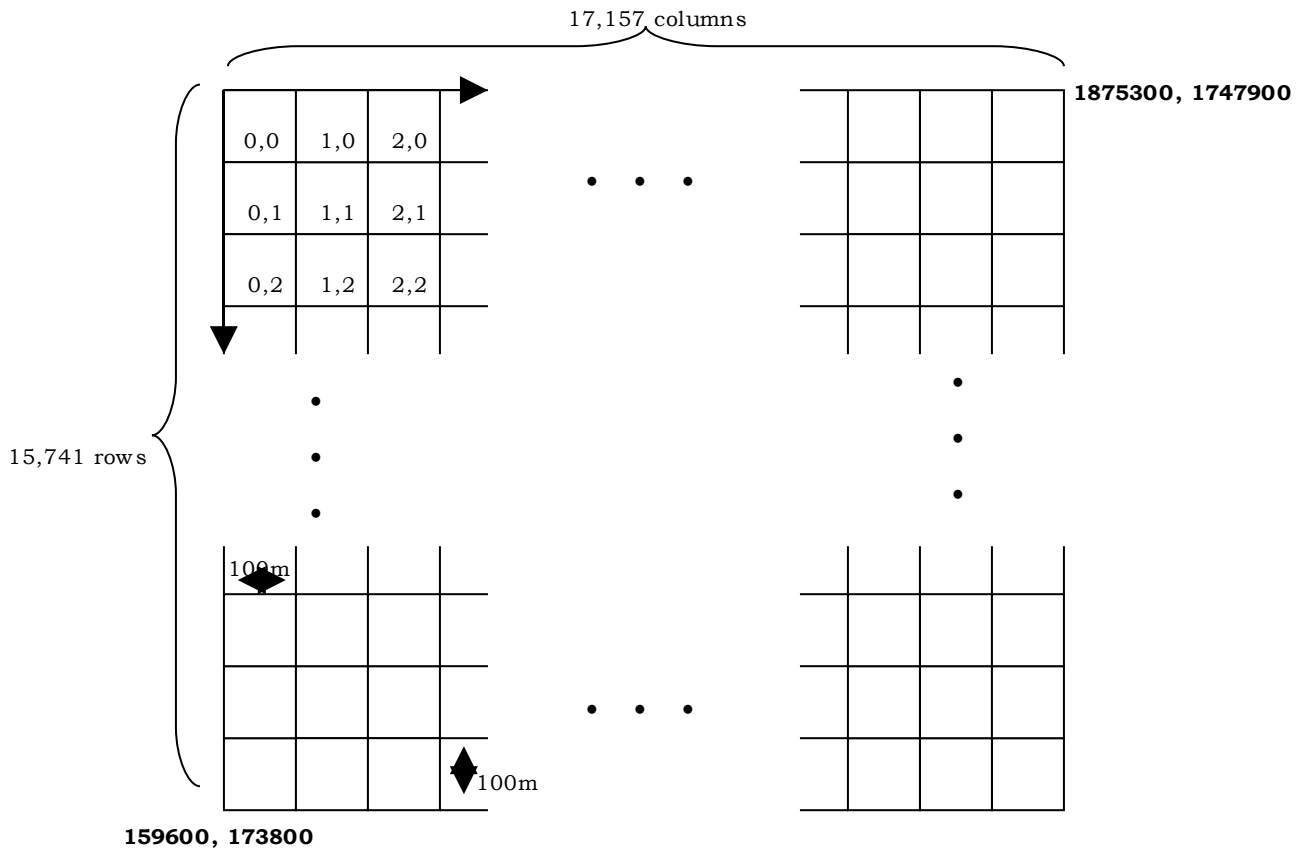


Figure 2: HaBC Grid Specifications

Table 1: HaBC Grid Specifications

East-West (x) minimum	159,600 BC Albers
East-West (x) maximum	1,875,300 BC Albers
North-South(y) minimum	173,800 BC Albers
North-South (y) maximum	1,747,900 BC Albers
Cell Width	100 metres
Cell Height	100 metres
Cell Area	1 hectare
Grid Width (number of columns)	17,157 cells
Grid Height (number of rows)	15,741 cells
Total Grid Size	270,068,337 cells

Grid cells will be referenced such that the upper left of the grid is cell (0,0) and the lower right is cell (17156,15740).

1.3 POINT SAMPLING

Data points are assumed to be sampled in the middle of the grid cell, such that if the grid was converted to points the points would lie in the middle of the cell.

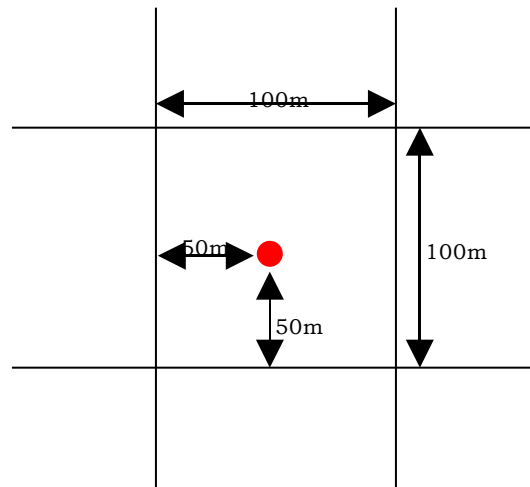


Figure 3: Point Sampling

1.4 GRID FORMATS

The specification currently only addresses the mathematical properties of the grid, disk formats for data transfer are still to be determined.