

Assignment 13

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2025-04-28

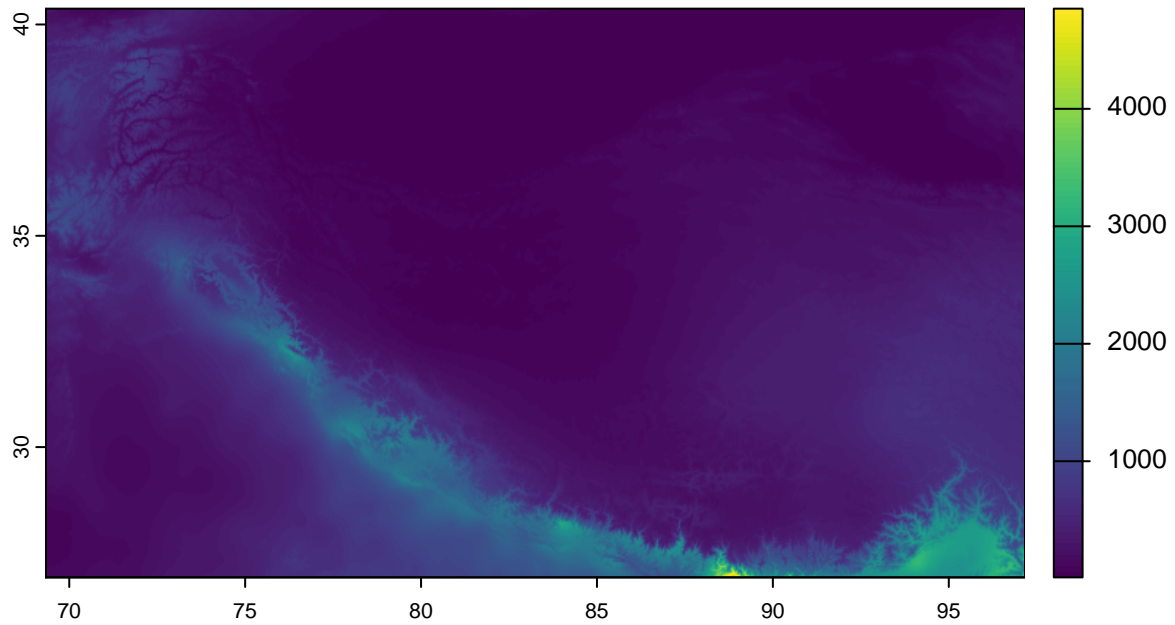
1. Working with raster data in terra (20 pts)

```
## terra 1.8.42
```

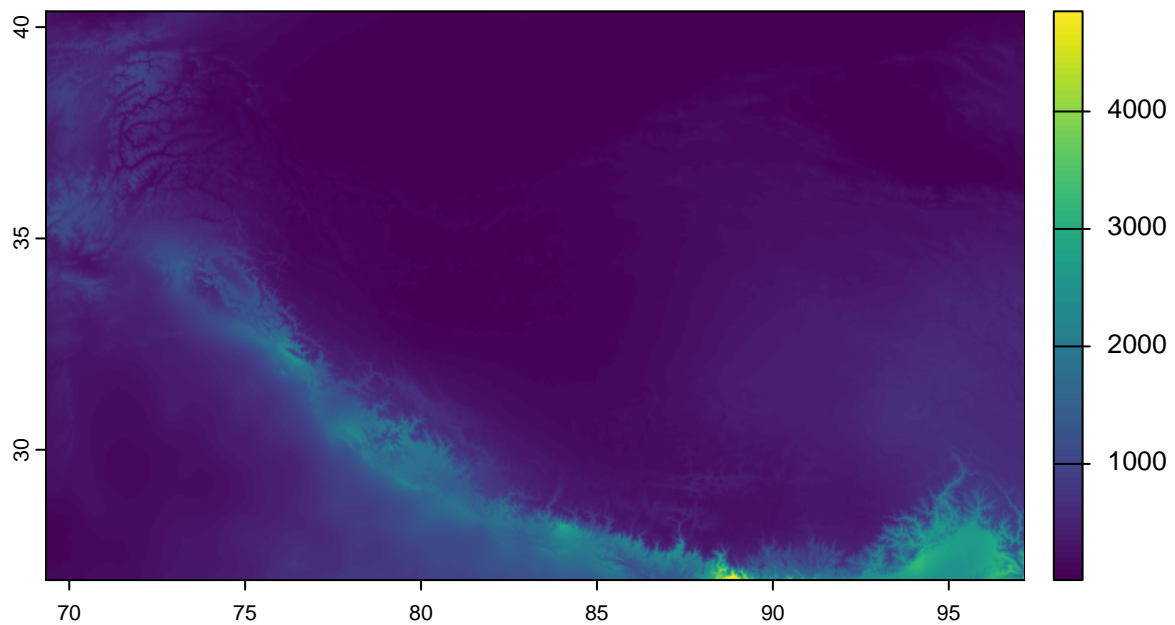
```
## class      : SpatRaster
## dimensions  : 4320, 8640, 1  (nrow, ncol, nlyr)
## resolution  : 0.04166667, 0.04166667  (x, y)
## extent     : -180, 180, -90, 90  (xmin, xmax, ymin, ymax)
## coord. ref. : lon/lat WGS 84 (EPSG:4326)
## source     : global_precipitation.tif
## name       : global_precipitation
## min value  :                0
## max value  :                11246

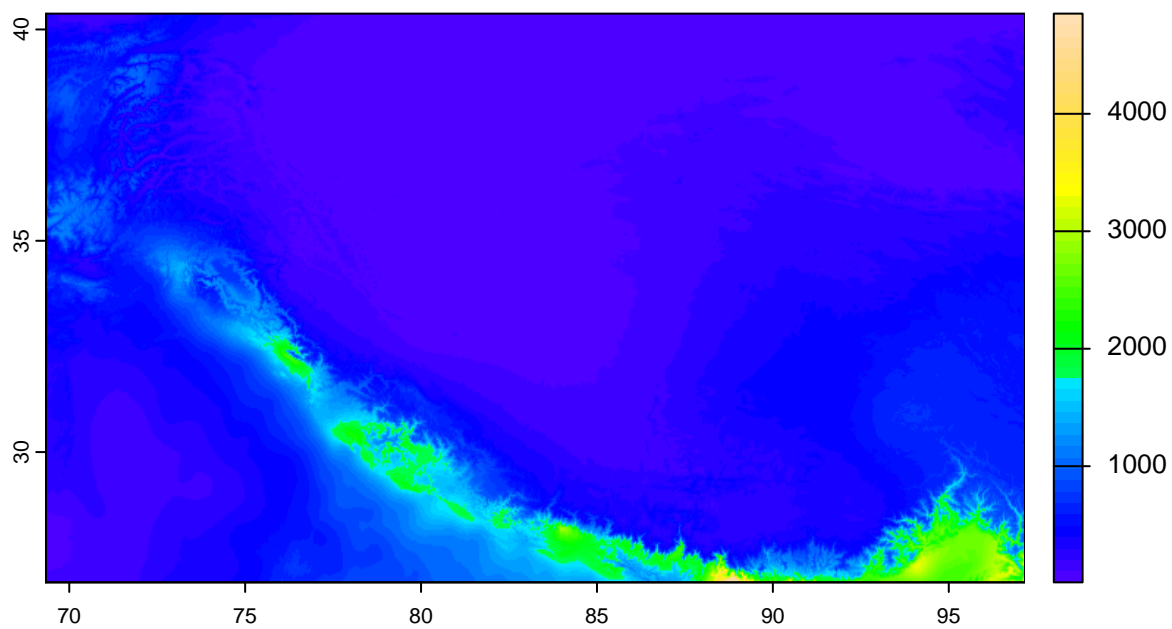
## class      : SpatRaster
## dimensions  : 323, 668, 1  (nrow, ncol, nlyr)
## resolution  : 0.04166667, 0.04166667  (x, y)
## extent     : 69.33333, 97.16667, 26.91667, 40.375  (xmin, xmax, ymin, ymax)
## coord. ref. : lon/lat WGS 84 (EPSG:4326)
## source(s)   : memory
## varname     : global_precipitation
## name       : global_precipitation
## min value  :                11
## max value  :                4853
```

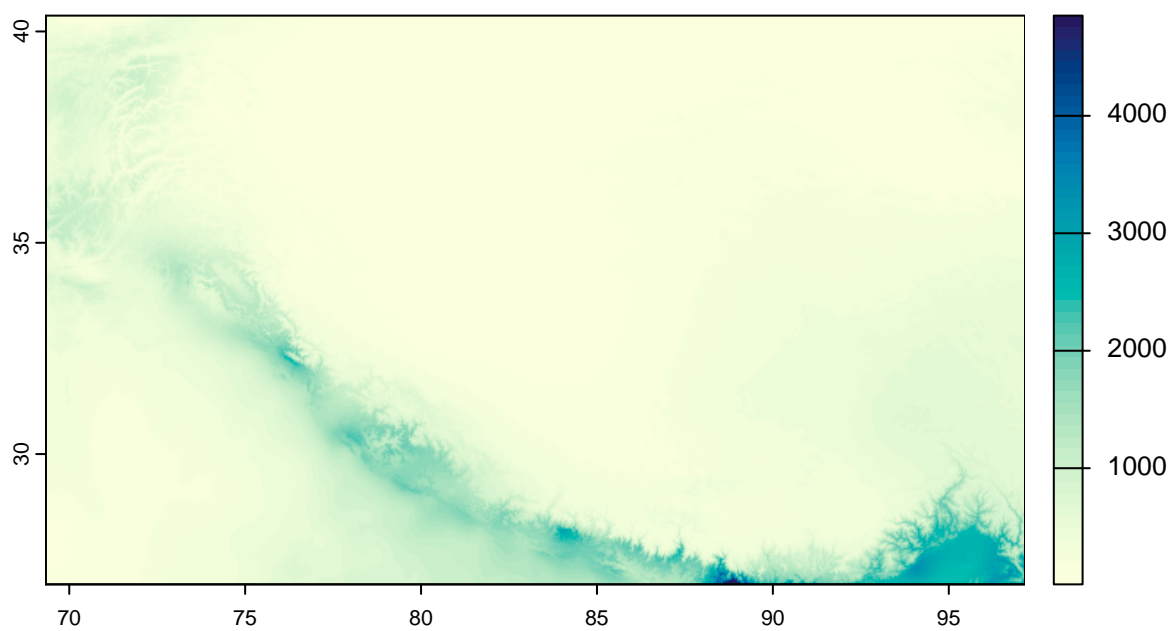
2. Printing maps (20 points)



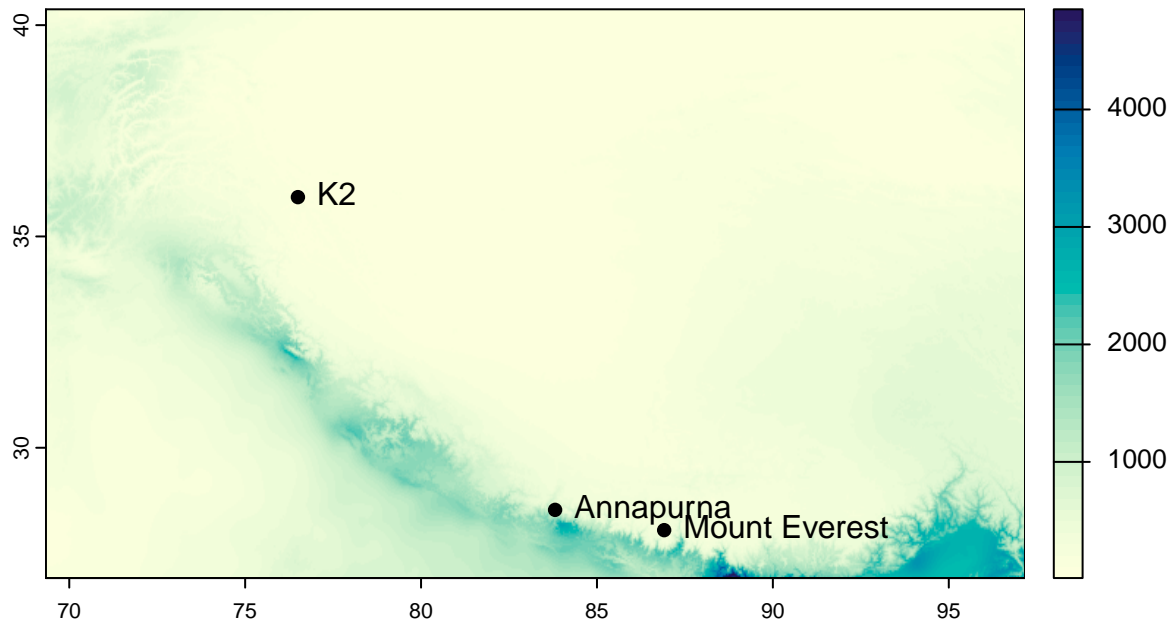
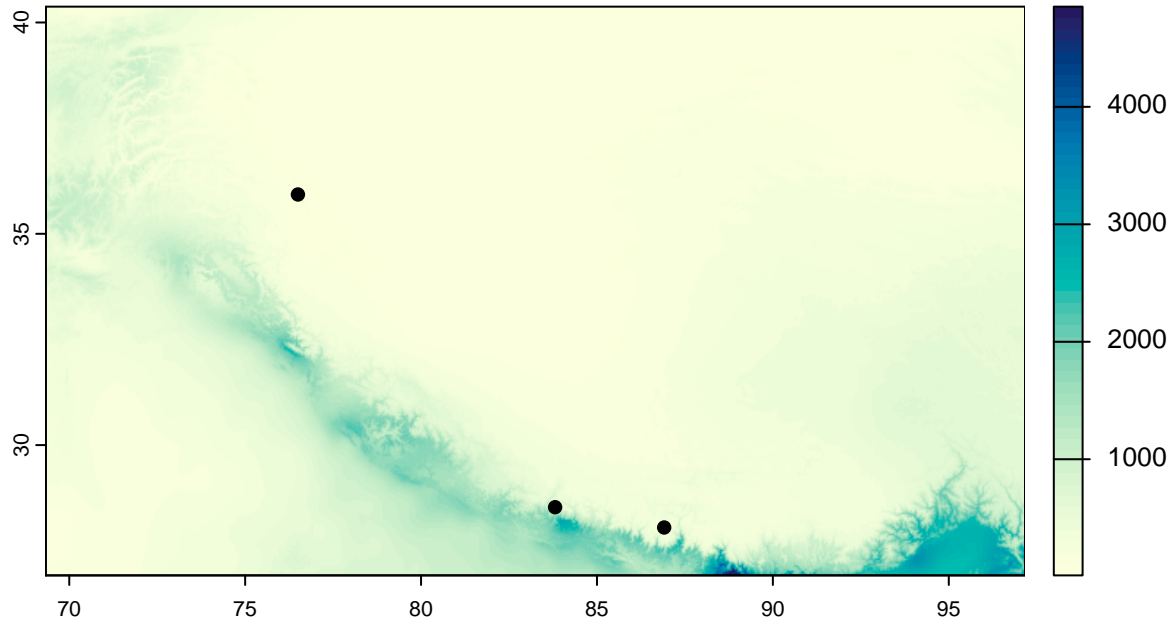
Mean annual precipitation (mm)





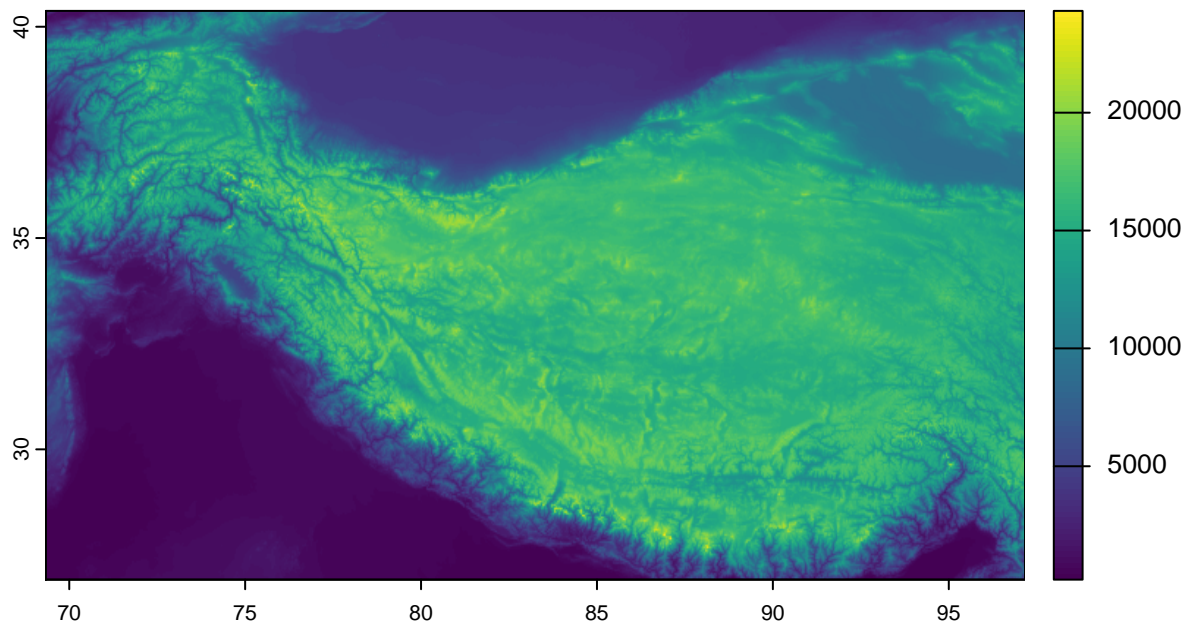


3. Working with vector data in terra (20 points)



4. Modifying raster values (20 points)

```
## class      : SpatRaster
## dimensions  : 4320, 8640, 1 (nrow, ncol, nlyr)
## resolution  : 0.04166667, 0.04166667 (x, y)
## extent     : -180, 180, -90, 90 (xmin, xmax, ymin, ymax)
## coord. ref. : lon/lat WGS 84 (EPSG:4326)
## source      : global_elevation.tif
## name        : global_elevation
## min value   :      -415
## max value   :      7412
## |-----|-----|-----|-----|=====
```



5. Converting raster objects to spatial vector objects (20 points)

