

Assignment 9 Answer Key

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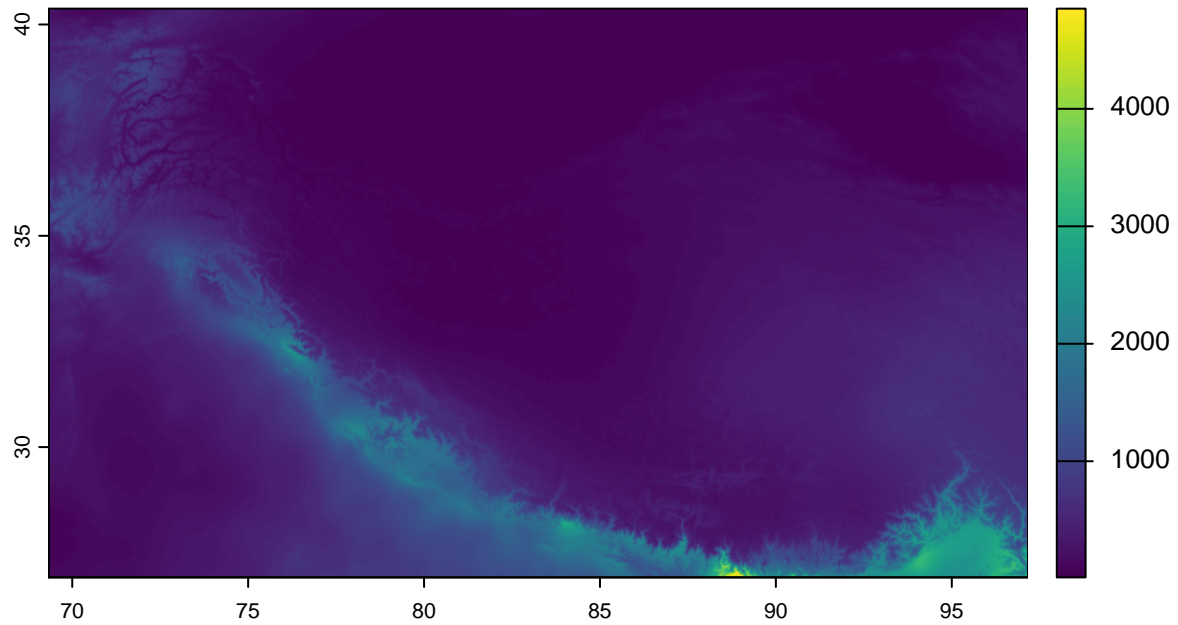
1. Working with Raster Data in terra (20 pts)

```
## terra 1.8.70
```

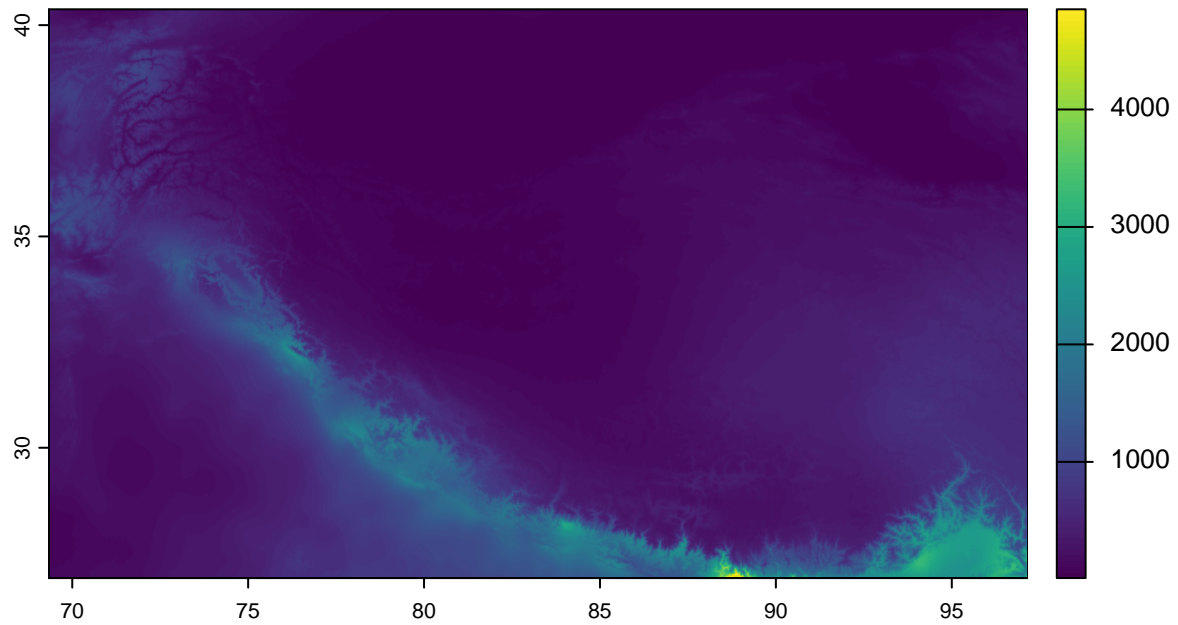
```
## class      : SpatRaster
## size       : 4320, 8640, 1  (nrow, ncol, nlyr)
## resolution : 0.04166667, 0.04166667  (x, y)
## extent     : -180, 180, -90, 90  (xmin, xmax, ymin, ymax)
## coord. ref. : lon/lat WGS 84 (EPSG:4326)
## source     : global_precipitation.tif
## name       : global_precipitation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

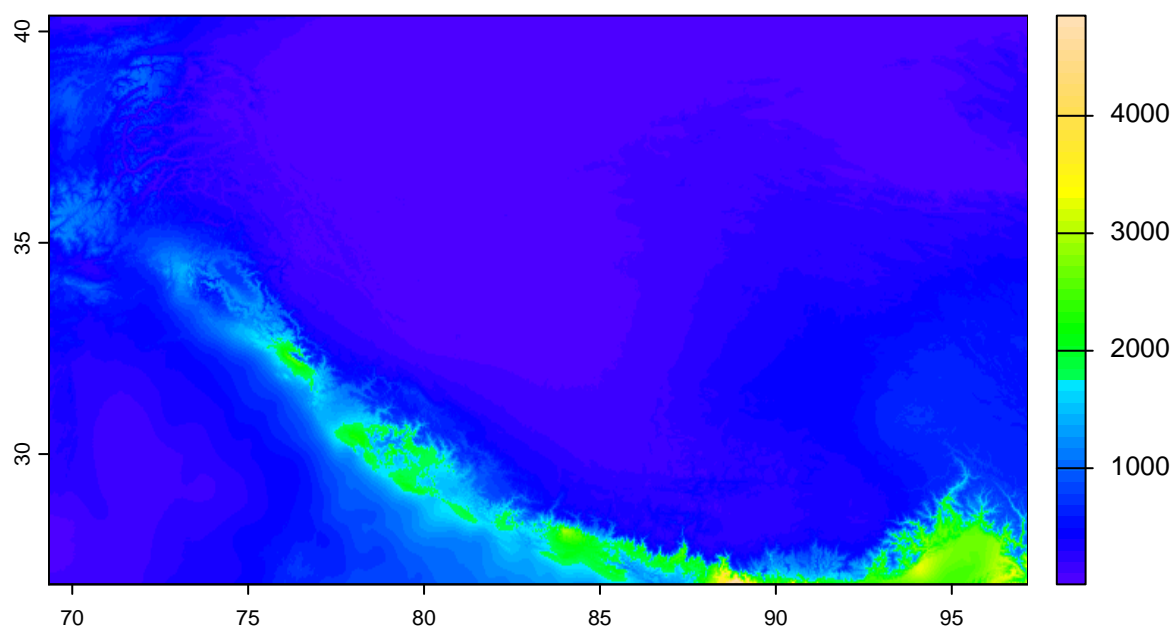
## class      : SpatRaster
## size       : 323, 668, 1  (nrow, ncol, nlyr)
## resolution : 0.04166667, 0.04166667  (x, y)
## extent     : 69.33333, 97.16667, 26.91667, 40.375  (xmin, xmax, ymin, ymax)
## coord. ref. : lon/lat WGS 84 (EPSG:4326)
## source(s)  : memory
## varname    : global_precipitation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

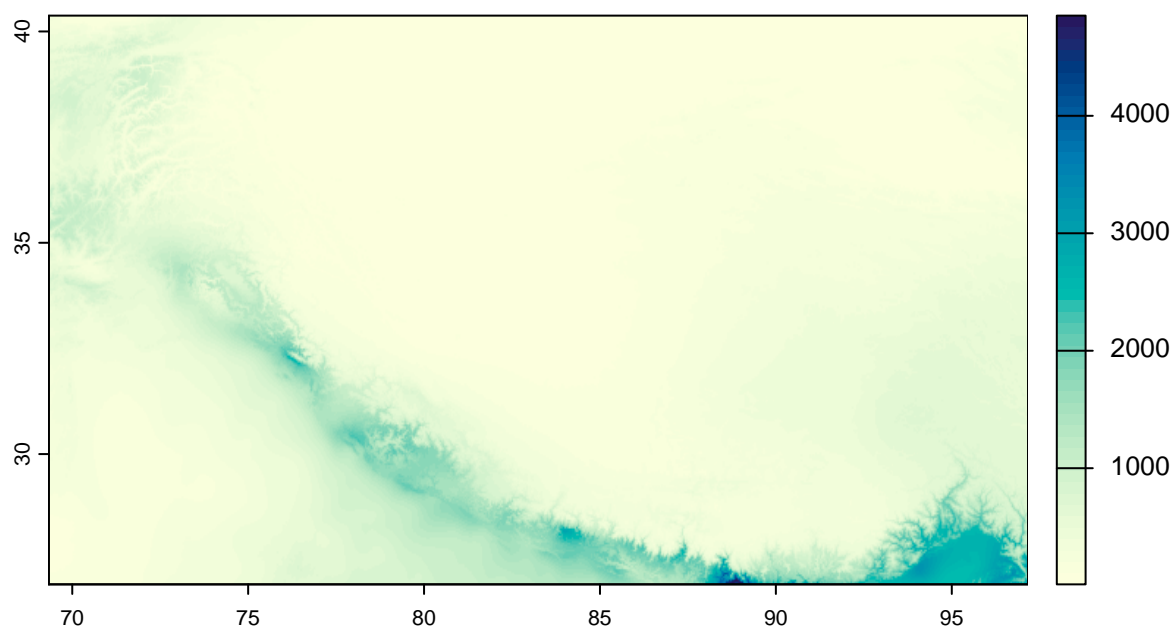
2. Printing Maps (20 points)



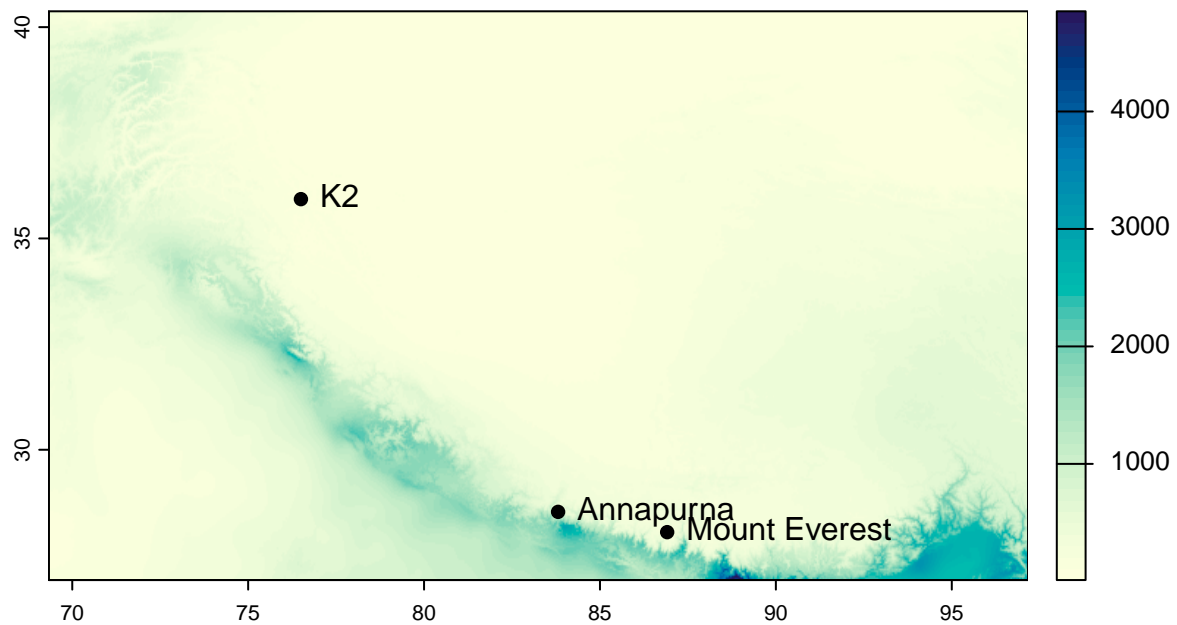
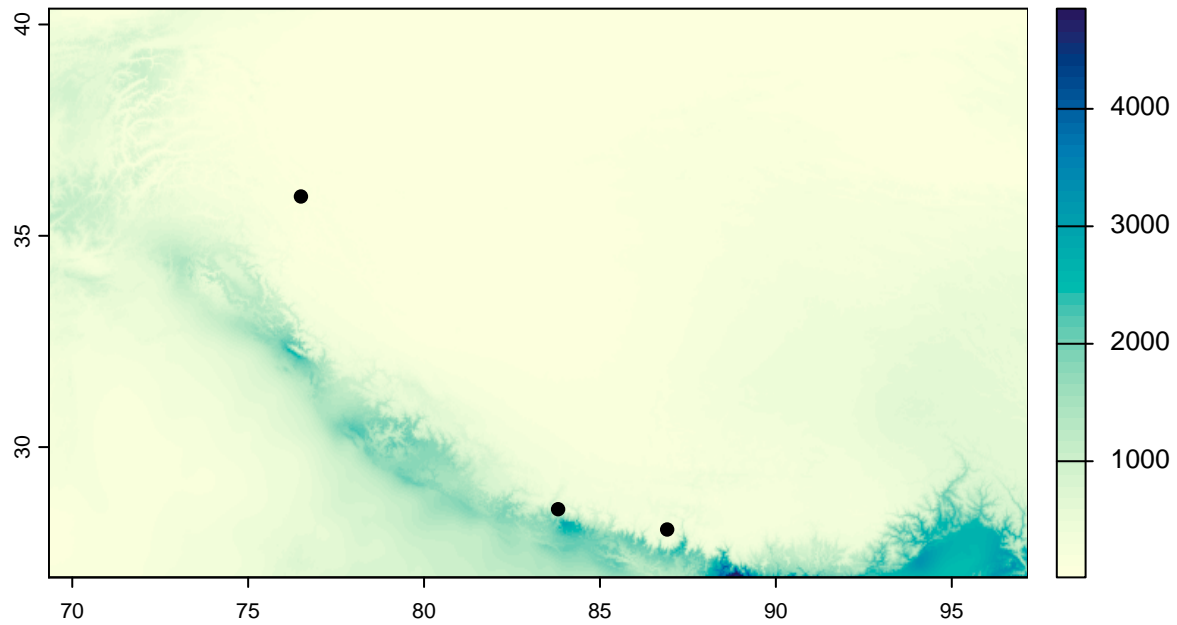
Mean annual precipitation (mm)





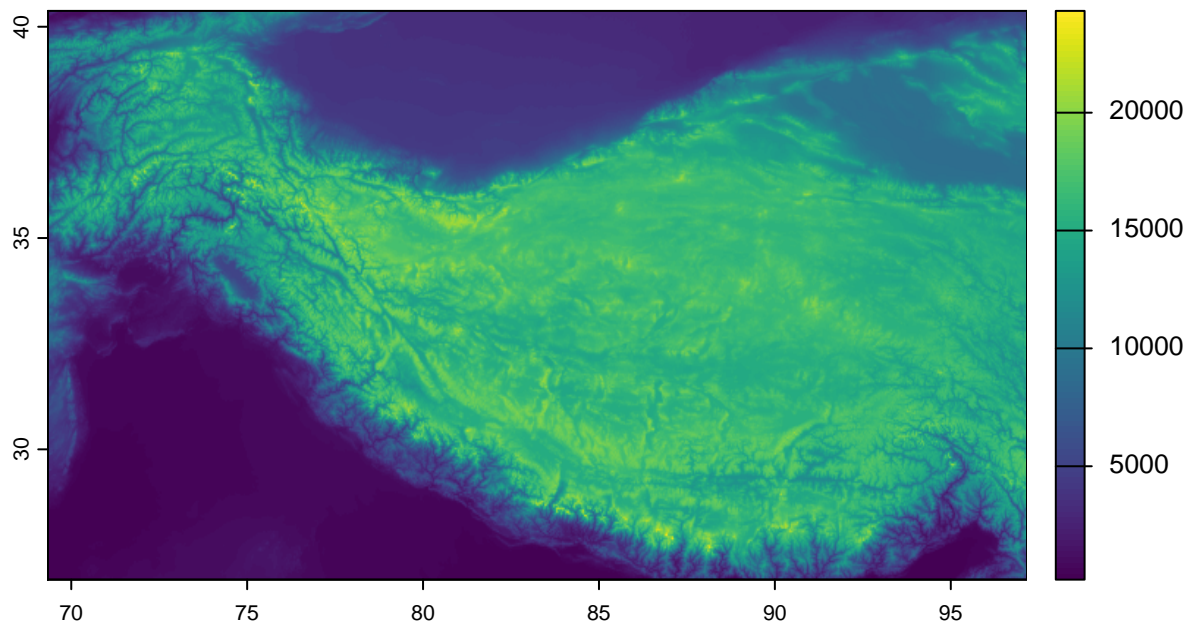


3. Working with Vector Data in terra (20 points)



4. Modifying Raster Values (20 points)

```
## class      : SpatRaster
## size       : 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)

