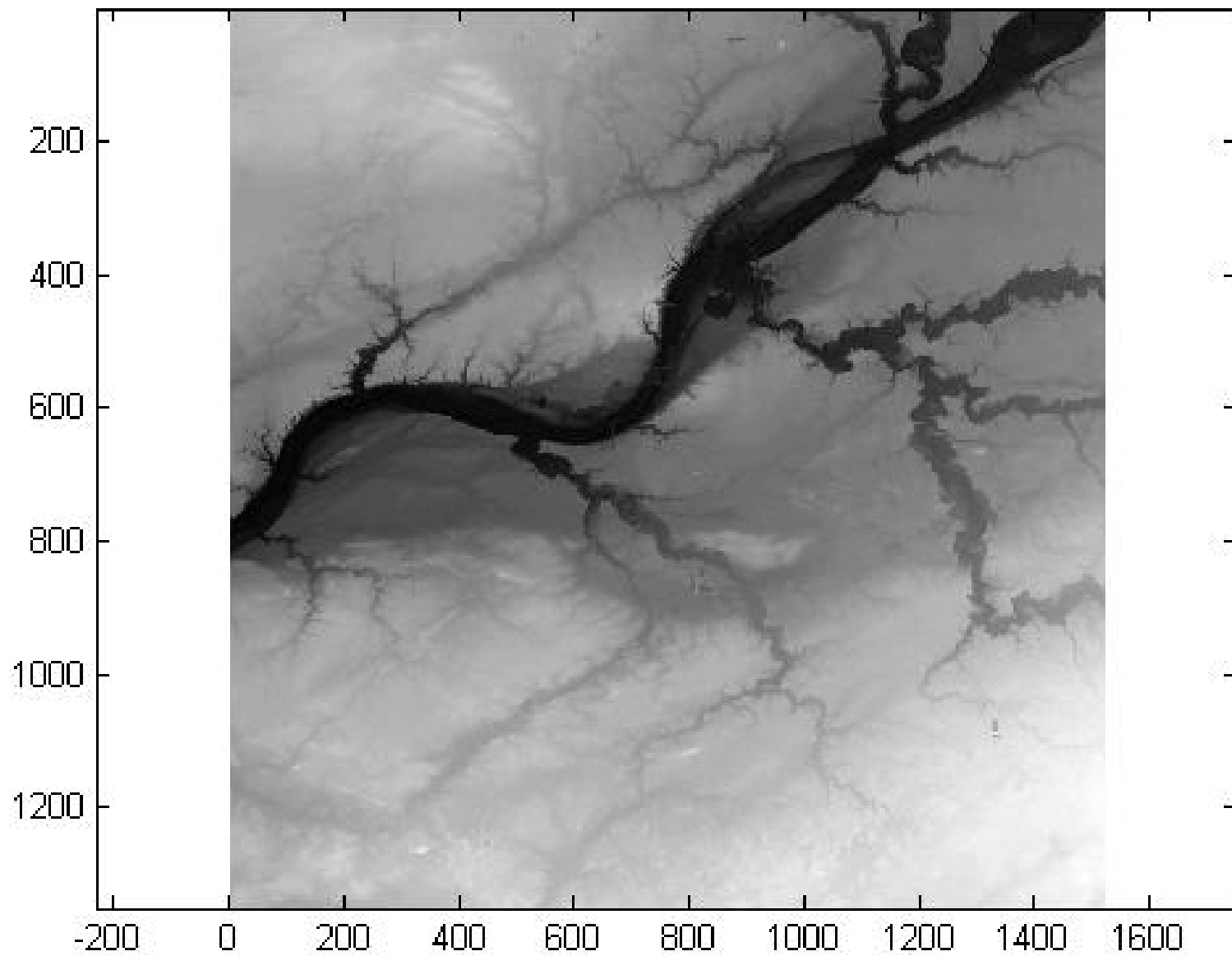


DEM for Orthorectification Project

- From usgs.gov (“seamless map”)
- 1 arc-second post spacing
- Downloaded in “BIL” format with “text” support data
- Also ESRI formats available if you prefer
- “NED_68106839.BIL” filename
- 1350 rows by 1521 columns
- Binary format – 16 bit integer, units meters
- Upper left corner W 87-06-20, N 40-34-29
- Min elev: 151, max elev: 257
- H: orthometric height (sea level reference)
- Obtain N from NGS for conversion to ellipsoid height
- $h = H + N$
- Use one value for the project

USGS 1-sec DEM UL W87-06-20 N40-34-29 1350R x 1521C





```
Read in Matlab by,  
fid = fopen(filename,'r');  
a = fread(fid,[1521,1350],'int16');  
at = a';  
% necessary since matlab reads binary data into columns  
% confirm correct file access by  
imagesc(at);  
colormap gray;  
% note scaling will be wrong since seconds of latitude and  
longitude are not equal !
```

BYTEORDER I
LAYOUT BIL
NROWS 1350
NCOLS 1521
NBANDS 1
NBITS 16
BANDROWBYTES 3042
TOTALROWBYTES 3042
BANDGAPBYTES 0

File *.hdr

0.00027777777780
0.0000000000000000
0.0000000000000000
-0.00027777777780
-87.10569444142041
40.57486111051906

File *.blw