

Appendix

1 Sample Datasets

This appendix provides a description of the data used in this book and attribution to the original source.

Nags Head Lidar

Naming Convention: `NH*_lidar.txt`

Source: Digital Coast - NOAA Coastal Services Center Website: <http://www.csc.noaa.gov/digitalcoast/>

Data Type: Lidar

Purpose: To provide elevation data for a portion of the town of Nags Head.

Rodanthe Lidar

Naming Convention: `R*_lidar.txt`

Source: Digital Coast - NOAA Coastal Services Center Website: <http://www.csc.noaa.gov/digitalcoast/>

Data Type: Lidar

Purpose: To provide elevation data for a portion of the town of Rodanthe and some of the Pea Island Wildlife Refuge.

Highway NC 12 Centerline

Naming Convention: `road_centerline.txt`

Source: Original to this book

Website: <http://geospatial.ncsu.edu/osgeorel/data.html> Data Type: Manually digitized points

Purpose: To provide points along the centerline of highway NC 12 within the town of Nags Head to be used for systematic error correction.

Highway NC 12 Lidar

Naming Convention: DARE_BE94zm3_01m_rstdm.txt

Source: North Carolina Department of Public Safety

Website: <https://www.ncdps.gov/>

Data Type: Lidar

Purpose: To provide elevation of highway NC 12 within the town of Nags Head to be used for systematic error correction.

2 Color Tables

This appendix provides color tables used throughout the book.

color_elev_coast.txt

```

-2 aqua
-.2 aqua
-0.1 grey
0.1 grey
1 yellow
3 orange
5 green
10 brown
40 white

```

color_stddev.txt

```

0 245 245 220 #beige
0.1 193 255 193 #darkseagreen1
0.25 180 238 180 #darkseagreen2
0.5 155 205 155 #darkseagreen3
0.75 105 139 105 #darkseagreen4
1 255 165 0 #orange1
1.25 238 154 0 #orange2
1.5 205 133 0 #orange3
1.75 139 90 0 #orange4
2 255 127 0 #darkorange 1
2.25 238 118 0 #darkorange 2
2.5 205 102 0 #darkorange 3
2.75 139 69 0 #darkorange 4
3 255 69 0 #orangered 1
3.25 238 64 0 #orangered 2
3.5 205 51 51 #brown 3
4 139 35 35 #brown 4
7.3 220 20 60 #crimson

```

color_range.txt

```
0 255:255:0 #yellow
1.4 255:165:0 #orange
2.0 255:75:0 #dark orange
2.1 255:75:0 #dark orange
2.2 124:252:0 #light green
2.4 124:252:0 #light green
4 139:37:0 #orange red
8 139:37:0 #orange red
9 199:21:133 #violet red
40 199:21:133 #violet red
```

color_regrslope.txt

```
-4 139 26 26 #firebrick4
-1 205 51 51 #brown 4
-0.5 238 99 99 #indianred2
-0.1 255 64 64 #brown1
-0.01 255 215 0 #gold1
0 255 215 0 #gold1
0.01 255 215 0 #gold1
0.1 99 184 255 #steelblue1
0.5 30 144 255 #dodgerblue1
1 16 78 139 #dodgerblue4
2 25 25 112 #midnightblue
3 71 60 139 #slateblue4
```

color_regrcoefdet.txt

```
0 white
0.25 blue
0.5 green
0.75 yellow
1 red
```

color_elevation_diff.txt

```
-12    0 0 0
-5     188 47 54
-1.5   251 0 13
-1.2   163 0 8
-1.0   163 0 8
-0.5   107 155 0
0.0    205 247 111
0.5    107 155 0
1.0    69 3 111
```

1.2	69	3	111
1.5	108	10	171
5	93	38	128
12	1	1	1