

```
(base) 169-231-208-131:landsat lcarberry$ bash sat_prot_1.sh
Input file /Users/lcarberry/Documents/6_Nick_Project/Projects/
Finesst_Subm/landsat/LC08_L1TP_065045_20201218_20210310_01_T1/
LC08_L1TP_065045_20201218_20210310_01_T1_MTL.txt is a Landsat 8 OLI
L1B GEOTIFF file.
Loading default parameters from /Applications/seadas-7.5.3/ocssw/
share/common/msl12_defaults.par
Loading default parameters for OLI from /Applications/seadas-7.5.3/
ocssw/share/oli/msl12_defaults.par
Loading parameters for suite 0C from /Applications/seadas-7.5.3/ocssw/
share/oli/msl12_defaults_0C.par
Loading command line parameters
```

Loading user parameters for OLI

```
Loading characteristics for OLI
Opening sensor information file /Applications/seadas-7.5.3/ocssw/
share/oli/msl12_sensor_info.dat
  Bnd   Lam      Fo   Tau_r    k_oz    k_no2    t_co2    awhite
aw      bbw
  0  443.000  189.652 2.352e-01 2.929e-03 5.024e-19 1.000e+00
1.000e+00 7.170e-03 2.169e-03
  1  482.000  200.396 1.685e-01 1.957e-02 3.213e-19 1.000e+00
1.000e+00 1.581e-02 1.529e-03
  2  561.000  182.079 9.020e-02 1.038e-01 8.351e-20 1.000e+00
1.000e+00 6.998e-02 8.054e-04
  3  655.000  155.038 4.793e-02 6.200e-02 1.177e-20 1.000e+00
1.000e+00 3.751e-01 4.215e-04
  4  865.000   95.063 1.551e-02 2.223e-03 3.306e-23 1.000e+00
1.000e+00 4.630e+00 1.332e-04
  5 1609.000   24.755 1.284e-03 0.000e+00 0.000e+00 1.000e+00
1.000e+00 7.607e+02 1.052e-05
  6 2201.000    8.546 3.697e-04 0.000e+00 0.000e+00 1.000e+00
1.000e+00 2.250e+03 2.958e-06
```

```
Internal data compression requested at compression level: 4
Opening filter file /Applications/seadas-7.5.3/ocssw/share/oli/
msl12_filter.dat
Setting 7 x 7 averaging filter on Lt(1)
```

```
Filter Kernel
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
```

Minimum fill set to 1 pixels

Setting 7 x 7 averaging filter on Lt(2)

Filter Kernel

```
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
```

Minimum fill set to 1 pixels

Setting 7 x 7 averaging filter on Lt(3)

Filter Kernel

```
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
```

Minimum fill set to 1 pixels

Setting 7 x 7 averaging filter on Lt(4)

Filter Kernel

```
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
```

Minimum fill set to 1 pixels

Setting 7 x 7 averaging filter on Lt(5)

Filter Kernel

```
1 1 1 1 1 1 1
```

```
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
```

Minimum fill set to 1 pixels

Setting 7 x 7 averaging filter on Lt(6)

```
Filter Kernel
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
```

Minimum fill set to 1 pixels

Setting 7 x 7 averaging filter on Lt(7)

```
Filter Kernel
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
```

Minimum fill set to 1 pixels

```
Reading Thuillier_F0.dat
OLI Level-1B /Users/lcarberry/Documents/6_Nick_Project/Projects/
Finesst_Subm/landsat/LC08_L1TP_065045_20201218_20210310_01_T1/
LC08_L1TP_065045_20201218_20210310_01_T1_MTL.txt
OLI Level-1B Collection 1
OLI Level-1B Band[0]:/Users/lcarberry/Documents/6_Nick_Project/
Projects/Finesst_Subm/landsat/
LC08_L1TP_065045_20201218_20210310_01_T1/
LC08_L1TP_065045_20201218_20210310_01_T1_B1.TIF
OLI Level-1B Band[1]:/Users/lcarberry/Documents/6_Nick_Project/
Projects/Finesst_Subm/landsat/
LC08_L1TP_065045_20201218_20210310_01_T1/
```

LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_B2.TIF  
OLI Level-1B Band[2]:/Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_B3.TIF  
OLI Level-1B Band[3]:/Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_B4.TIF  
OLI Level-1B Band[4]:/Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_B5.TIF  
OLI Level-1B Band[5]:/Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_B6.TIF  
OLI Level-1B Band[6]:/Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_B7.TIF  
OLI Level-1B Band[7]:/Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_B8.TIF  
OLI Level-1B Band[8]:/Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_B9.TIF  
OLI Level-1B Angle File:/Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1\_ANG.txt  
OLI Start Time: 2020-12-18 353 21:00:34.901244  
OLI file has 7 bands, 7601 samples, 7761 lines  
Allocated 6985347 bytes in L1 record.  
Allocated 2432320 bytes in L2 record.

Opening: /Users/lcarberry/Documents/6\_Nick\_Project/Projects/  
Finesst\_Subm/landsat/LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
L2020353210034.L2\_LAC\_OCstep1CL

The following products will be included in /Users/lcarberry/Documents/  
6\_Nick\_Project/Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
L2020353210034.L2\_LAC\_OCstep1CL.  
0 Kd\_490  
1 Rrs\_443  
2 Rrs\_482

3 Rrs\_561  
4 Rrs\_655  
5 adg\_443\_gsm  
6 angstrom  
7 angstrom\_443  
8 angstrom\_482  
9 angstrom\_561  
10 angstrom\_655  
11 angstrom\_865  
12 angstrom\_1609  
13 angstrom\_2201  
14 aot\_865  
15 bbp\_443\_qaa  
16 bbp\_482\_qaa  
17 bbp\_561\_qaa  
18 bbp\_655\_qaa  
19 chl\_oc3  
20 chl\_oci  
21 chlor\_a  
22 ipar  
23 l2\_flags

-E- /Users/seadas/ocssw/src/l2gen/l2\_generic.c line 458: product  
angstrom\_1609 not found.

-E- l2gen: Error opening /Users/lcarberry/Documents/6\_Nick\_Project/  
Projects/Finesst\_Subm/landsat/  
LC08\_L1TP\_065045\_20201218\_20210310\_01\_T1/  
L2020353210034.L2\_LAC\_OCstep1CL for writing.